CONSTRUCTION DOCUMENTS

FOR

BSP AND HAC RELOCATION

UNIVERSITY OF CALIFORNIA

MERCED

June 9, 2020

REQUEST FOR BID

Subject to conditions prescribed by the University of California, Merced, sealed bids for a lump sum Contract are requested for the following work:

2020 BSP AND HAC RELOCATION
PROJECT NO.: 908090
UNIVERSITY OF CALIFORNIA, MERCED

DESCRIPTION OF PROJECT:

University of California Merced is relocating several laboratories and offices in to the Biomedical Science and Physics (BSP) building and several medical offices, exam rooms and laboratory into the Health and Athletic Center (HAC). The relocation involves packing and transporting lab equipment as well as office equipment and set up for both buildings.

Scope of Work:
01 11 00.01 General Mover
01 11 00.02 Refrigeration and Incubator Mover
01 11 00.03 Rigger
01 11 00.04 Chemical Mover
01 11 00.05 Decontamination Services
01 11 00.06 Testing and Calibration Services

Phase 1, HAC Completion: August 7, 2020
Phase 2, BSP Basement and First Floor Completion: September 18, 2020
Phase 3, BSP Second thru Fourth Floor Completion: January 15, 2021

Estimated construction value: $400,000

Bidding documents will be available at the University's ShareFile site at http://rfp-rfq.ucmerced.edu/ for electronic download: hardcopy bidding documents will not be provided by the University. Bid Results will be available on our website at http://rfp-rfq.ucmerced.edu/ .

Bidding Documents will be made available Tuesday, June 10, 2020.

A **NON-MANDATORY** Pre-Bid Conference will be conducted on **TUESDAY, JUNE 16, 2020 beginning promptly at 10:00 AM**. Participants shall meet at 5200 N. Lake Rd, Merced, CA 95343, UC Merced Campus, Science & Engineering 1, 1st Floor Lobby. Parking permits are required throughout campus and are available for purchase in the Transportation and Parking Services (TAPS) offices. Please visit taps.ucmerced.edu or call (209) 228-8277.

If you need accommodations related to disabilities, please call Sara Anastos @ 209-631-0282 at least 3 working days prior to Pre-Bid Conference/Project Site Visit or Bid Opening.

Requests for clarification or interpretation of the Bidding Documents must be in writing and received by **Thursday, June 18, 2019 at 4:00 P.M.** Questions received after the above-noted deadline may be answered at the discretion of the University's Representative. Questions may be emailed to:

Sara Anastos – University of California, Merced
Email: sanastos@ucmerced.edu

Revisions, additions or deletions will be made by written addenda issued by UC Merced Planning, Design & Construction Management.

Bids will be received by:

E-mail only:	**Attn: Sara Anastos** **Planning, Design & Construction Management** **sanastos@ucmerced.edu**
Bid must be received before:	***2:00 PM*** ***Thursday, June 25, 2019***
Bid Opening at:	**Hosted by Zoom**

The successful Bidder and its subcontractors will be required to follow the nondiscrimination requirements set forth in the Bidding Documents and to pay prevailing wage rates at the location of the work.

Every effort will be made to ensure that all persons have equal access to contracts and other business opportunities with the University within the limits imposed by law or University policy. Each Bidder may be required to show evidence of its equal employment opportunity policy. The successful Bidder and its subcontractors will be required to follow the nondiscrimination requirements set forth in the Bidding Documents and to pay prevailing wage at the location of the work.

The work described in the contract is a public work subject to section 1771 of the California Labor Code.

No contractor or subcontractor, regardless of tier, may be listed on a Bid for, or engage in the performance of, any portion of this project, unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 and 1771.1.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

The successful Bidder shall pay all persons providing construction services and/or any labor on site, including any University location, no less than the UC Fair Wage (defined as $13 per hour as of 10/1/15, $14 per hour as of 10/1/16, and $15 per hour as of 10/1/17) and shall comply with all applicable federal, state and local working condition requirements.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
University of California, Merced
June 9, 2020

PROJECT DIRECTORY

Project Name:	BSP AND HAC RELOCATION
Project No:	908090
Location:	University of California Merced Merced Campus
University:	The Regents of the University of California
University's Facility person acting on behalf of University:	Mike McLeod Vice Chancellor/Chief Operating Officer (209) 228-7659
University's Representative is:	Fran Telechea Design & Construction Management (209) 201-8174
All inquiries shall be in writing and shall be directed only to:	Fran Telechea ftelechea@ucmerced.edu
Design Professional Consultants:	University of California Merced
Address for Stop Notices:	Marianna Eastman University of California, Merced 5200 North Lake Road Merced CA 95343
Address for Demand for Arbitration:	Western Case Management Center 6795 N. Palm Avenue, 2nd Floor Fresno CA 93704
A copy of the Demand for Arbitration must be sent to:	University of California Office of the General Counsel 1111 Franklin Street, 8th Floor Oakland, CA 94607-5200

GENERAL CONDITIONS

Multiple Prime Trade Contract

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ARTICLE 1

GENERAL PROVISIONS

1.1 BASIC DEFINITIONS

1.1.1 APPLICABLE CODE REQUIREMENTS
The term "Applicable Code Requirements" means all laws, statutes, the most recent building codes, ordinances, rules, regulations, and lawful orders of all public authorities having jurisdiction over University, Prime Trade Contractor, any Subcontractor, the Project, the Project site, the Work, or the prosecution of the Work including without limitation the requirements set forth in Article 3.7 of the General Conditions.

1.1.2 APPLICATION FOR PAYMENT
The term “Application for Payment” means the submittal from Prime Trade Contractor wherein payment for certain portions of the completed Work is requested in accordance with Article 9 of the General Conditions.

1.1.3 BENEFICIAL OCCUPANCY
The term “Beneficial Occupancy” means the University's right to occupancy or use of any part of the Work in accordance with Article 9 of the General Conditions.

1.1.4 CERTIFICATE FOR PAYMENT
The term “Certificate for Payment” means the form signed by University's Representative attesting to the Prime Trade Contractor's right to receive payment for certain completed portions of the Work in accordance with Article 9 of the General Conditions.

1.1.5 CHANGE ORDER
See Article 7.2 of the General Conditions

1.1.6 CLAIM
See Article 4.3 of the General Conditions.

1.1.7 COMPENSABLE DELAY
The term “Compensable Delay” means a delay that entitles the Prime Trade Contractor to an adjustment of the Contract Sum and an adjustment of the Contract Time pursuant to Articles 7 and 8 of the General Conditions.

1.1.8 CONTRACT
The term “Contract” shall have the meaning identified in Article 2 of the Agreement.

1.1.9 CONTRACT DOCUMENTS
The term “Contract Documents” means all documents listed in Article 2 of the Agreement, as modified by Change Order, including but not limited to the Drawings and Specifications.

1.1.10 CONTRACT MILESTONE
The term “Contract Milestone” means any requirement in the Contract Documents that reflects a planned point in time for the start or completion of a portion of the Work measured from I) the date of the Notice to proceed or ii) the date of another Contract Milestone defined in the contract Documents, as applicable.

1.1.11 CONTRACT SUM
The term “Contract Sum” means the amount of compensation stated in the Agreement for the performance of the Work, as adjusted by Change Order.

1.1.12 CONTRACT TIME

The term “Contract Time” means the number of days set forth in the Agreement, as adjusted by Change Order, within which Prime Trade Contractor must achieve full completion of the Work.

1.1.13 COST OF EXTRA WORK
See Article 7.3 of the General Conditions.

1.1.14 DAY
The term “day,” as used in the Contract Documents, shall mean calendar day, unless otherwise specifically provided.

1.1.15 DEFECTIVE WORK
The term “Defective Work” means work that is unsatisfactory, faulty, omitted, incomplete, deficient, or does not conform to the requirements of the Contract Documents, directives of University's Representative, or the requirements of any inspection, reference standard, test, or approval specified in the Contract Documents.

1.1.16 DRAWINGS
The term “Drawings” means the graphic and pictorial portions of the Contract Documents showing the design, location, and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams. The Drawings are listed in the List of Drawings.

1.1.17 EXCUSABLE DELAY
The term “Excusable Delay” means a delay that entitles the Prime Trade Contractor to an adjustment of the Contract Time but not an adjustment of the Contract Sum, pursuant to Articles 7 and 8 of the General Conditions.

1.1.18 EXTRA WORK
The term “Extra Work” means Work beyond or in addition to the Work required by the Contract Documents.

1.1.19 FIELD ORDER
See Article 7.2 of the General Conditions.

1.1.20 FINAL COMPLETION
The term “Final Completion” means the date at which the Work has been fully completed in accordance with the requirements of the Contract Documents pursuant to Article 9.8.1 of the General Conditions.

1.1.21 GUARANTEE TO REPAIR PERIOD
See Article 12.2 of the General Conditions.

1.1.22 MASTER PROJECT SCHEDULE
The term “Master Project Schedule” means the graphical representation of a practical plan, in accordance with Article 3 of the General Conditions and the Specifications, to perform and complete the Project within the Project Time.

1.1.23 PRIME TRADE CONTRACTOR
The term “Prime Trade Contractor” means the person or firm identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number.

1.1.24 PRIME TRADE CONTRACTOR FEE
See Article 7.3 of the General Conditions.

1.1.25 PRIME TRADE CONTRACTOR SCHEDULE
The term “Prime Trade Contractor Schedule” means the graphical representation of a practical plan, in accordance with Article 3 of the General Conditions and the Specifications, to perform and complete the Work within the Contract Time.

The term “Project” means the Work of the Contract and all other work, labor, equipment, and materials necessary to accomplish the construction of the improvement of which the Work is a part. The Project will include construction by Separate Contractors.

1.1.27 PROJECT SITE
The term “Project Site” or “Project site” or “Site” or “site” means lands and facilities upon which the Work pertaining to physical construction operations is performed, including such access and other lands and facilities designated in the Contract Documents for use by Contractor.
1.1.28 PROJECT SUBSTANTIAL COMPLETION
The term “Project Substantial Completion” means the stage in the progress of the Project, as determined by University's Representative, when all work of the Project is complete and in accordance with the Contract Documents and Substantial Completion of all Prime Trade Contracts have occurred except only for completion of minor items which do not impair University's ability to occupy and fully utilize all work of the Project for its intended purpose and a Certificate of Occupancy for the Project has been issued by the University’s Building Official.

1.1.29 PROJECT TIME
The term “Project Time” means the number of days from the first Notice to Proceed issued to a Prime Trade Contractor to the date for completion of the Project.

1.1.30 SEPARATE CONTRACTOR
The term “Separate Contractor” means a person or firm under separate contract with University performing other work related to the Project.

1.1.31 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES
See Article 3.12 of the General Conditions.

1.1.32 SPECIFICATIONS
The term “Specifications” means that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.

1.1.33 SUBCONTRACTOR
The term “Subcontractor” means a person or firm that has a contract with Prime Trade Contractor or with a Subcontractor to perform a portion of the Work. Unless otherwise specifically provided, the term Subcontractor includes Subcontractors of all tiers.

1.1.34 SUBSTANTIAL COMPLETION
See Article 9.7 of the General Conditions.

1.1.35 SUPERINTENDENT
The term “Superintendent” means the person designated by Prime Trade Contractor to represent Prime Trade Contractor at the Project site in accordance with Article 3 of the General Conditions.

1.1.36 TIER
The term “tier” means the contractual level of a Subcontractor or supplier with respect to Prime Trade Contractor. For example, a first-tier Subcontractor is under subcontract with Prime Trade Contractor, a second-tier Subcontractor is under subcontract with a first-tier Subcontractor, and so on.

1.1.37 UNEXCUSABLE DELAY
The term “Unexcusable Delay” means a delay that does not entitle the Prime Trade Contractor to an adjustment of the Contract Sum and does not entitle the Prime Trade Contractor to an adjustment of the Contract Time.

1.1.38 UNILATERAL CHANGE ORDER
See Article 7.2 of the General Conditions.

1.1.39 UNIVERSITY
The term “University” means The Regents of the University of California.

1.1.40 UNIVERSITY BUILDING OFFICIAL
The term “University’s Building Official,” or “Certified Building Official,” shall mean the individual the University has designated to act in the capacity as the “Building Official” as defined by the California Building Standards Code. The University’s Building Official will determine whether the all work of the Project complies with Applicable Code Requirements and will determine whether and when it is appropriate to issue a Certificate of Occupancy.

1.1.41 UNIVERSITY'S REPRESENTATIVE
The term “University's Representative” means the person identified as such in the Agreement.

1.1.42 UNIVERSITY’S RESPONSIBLE ADMINISTRATOR
The term “University’s Responsible Administrator” means the person, or his or her authorized designee, who is authorized to sign the Agreement and other applicable contract Documents on behalf of the University.

1.1.43 WORK
The term “Work” means all construction, services, and other requirements of the Contract Documents as modified by Change Order, whether completed or partially completed, and includes all labor, materials, equipment, tools, and services provided or to be provided by Prime Trade Contractor to fulfill Prime Trade Contractor's obligations. The Work will constitute a part of the Project.

1.2 OWNERSHIP AND USE OF CONTRACT DOCUMENTS

1.2.1 The Contract Documents and all copies thereof furnished to or provided by Prime Trade Contractor are the property of the University and are not to be used on other work.

1.3 INTERPRETATION

1.3.1 The Contract Documents are complementary and what is required by one shall be as binding as if required by all. In the case of conflict between terms of the contract Documents, the following order of precedence shall apply:

.1 The Agreement
.2 The Supplementary Conditions
.3 The General Conditions
.4 The Specifications
.5 The Drawings

1.3.2 With respect to the Drawings, figured dimensions shall control over scaled measurements and specific details shall control over typical or standard details.

1.3.3 Organization of the Specifications into various subdivisions and the arrangement of the Drawings shall not control Prime Trade Contractor in dividing the Work among Subcontractors or in establishing the extent of work to be performed by any trade.

1.3.4 Unless otherwise stated in the Contract Documents, technical words and abbreviations contained in the Contract Documents are used in accordance with commonly understood construction industry meanings; and non-technical words and abbreviations are used in accordance with their commonly understood meanings.

1.3.5 The Contract Documents may omit modifying words such as “all” and “any,” and articles such as “the” and “an,” but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement. The use of the word “including,” when following any general statement, shall not be construed to limit such statement to specific items or matters set forth immediately following such word or to similar items or matters, whether or not nonlimiting language (such as “without limitation,” “but not limited to,” or words of similar import) is used with reference thereto, but rather shall be deemed to refer to all other items or matters that could reasonably fall within the broadest possible scope of such general statement.

1.3.6 Whenever the context so requires, the use of the singular number shall be deemed to include the plural and vice versa. Each gender shall be deemed to include any other gender, and each shall include corporation, partnership, trust, or other legal entity whenever the context so requires. The captions and headings of the various subdivisions of the Contract Documents are intended only for reference and convenience and in no way define, limit, or prescribe the scope or intent of the Contract Documents or any subdivision thereof.

ARTICLE 2

UNIVERSITY

2.1 INFORMATION AND SERVICES PROVIDED BY UNIVERSITY

2.1.1 If required for performance of the Work, as determined by University's Representative, University will make available a survey describing known physical characteristics, boundaries, easements, and utility locations for the Project site.
2.1.2 University is not subject to any requirement to obtain or pay for local building permits, inspection fees, plan checking fees, or certain utility fees. Except as otherwise provided in the Contract Documents, University will obtain and pay for any utility permits, demolition permits, easements, and government approvals for the use or occupancy of permanent structures required in connection with the Work.

2.1.3 Prime Trade Contractor will be furnished, free of charge, such copies of the Contract Documents as University deems reasonably necessary for execution of the Work.

2.2 ACCESS TO PROJECT SITE

2.2.1 University will provide, no later than the earliest start date for the Prime Trade Contractor as shown in the Master Project Schedule, access to the lands and facilities upon which the Work is to be performed, including such access and other lands and facilities designated in the Contract Documents for use by Prime Trade Contractor.

2.3 UNIVERSITY'S RIGHT TO STOP THE WORK

2.3.1 If Prime Trade Contractor fails to correct Defective Work as required by Article 12.2 of the General Conditions or fails to perform the Work in accordance with the Contract Documents, University or University's Representative may direct Prime Trade Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated by Prime Trade Contractor. Prime Trade Contractor shall not be entitled to any adjustment of Contract Time or Contract Sum as a result of any such order. University and University's

Representative have no duty or responsibility to Prime Trade Contractor or any other party to exercise the right to stop the Work.

2.4 UNIVERSITY'S RIGHT TO CARRY OUT THE WORK

If Prime Trade Contractor fails to carry out the Work in accordance with the Contract Documents, fails to provide sufficient labor, materials, equipment, tools, and services to maintain the Master Project Schedule, fails to start any activity by its start date as directed by the University Representative which will be no earlier than the early start date nor later than the late start date reflected in the Master Project Schedule, fails to complete any activity by its completion date as directed by the University Representative which will be no earlier than the early completion date nor later than the late completion date as reflected in the Master Project Schedule, or otherwise fails to comply with any material term of the Contract Documents, and, after receipt of written notice from University, fails within 2 days, excluding Saturdays, Sundays and legal holidays, or within such additional time as the University may specify, to correct such failure and thereafter diligently continue to completion, University may, without prejudice to other remedies University may:

.1 Correct such failure at Prime Trade Contractor's expense. In such case, University will be entitled to deduct from payments then or thereafter due Prime Trade Contractor the cost of correcting such failure, including compensation for the additional services and expenses of University's Representative and University's consultants made necessary thereby. If payments then or thereafter due Prime Trade Contractor are not sufficient to cover such amounts, Prime Trade Contractor shall pay the additional amount to University.

.2 Supply additional workers to the Prime Trade Contractor in such quantity and for such period as deemed necessary by the University’s Representative, all at the Prime Trade Contractor’s expense. In such case, University will be entitled to deduct from payments then or thereafter due Prime Trade Contractor the cost of such additional workers, including compensation for the additional services and expenses of University's Representative and University's consultants made necessary thereby. If payments then or thereafter due Prime Trade Contractor are not sufficient to cover such amounts, Prime Trade Contractor shall pay the additional amount to University.

2.5 UNIVERSITY'S RIGHT TO REPLACE UNIVERSITY'S REPRESENTATIVE

2.5.1 University may at any time and from time to time, without prior notice to or approval of Prime Trade Contractor, replace University's Representative with a new University's Representative. Upon receipt of notice from University informing Prime Trade Contractor of such replacement and identifying the new University's Representative, Prime Trade Contractor shall recognize such person or firm as University's Representative for all purposes under the Contract Documents.

2.6 UNIVERSITY’S RIGHT TO ACCELERATE THE WORK

2.6.1 University may direct the acceleration of the Work by Prime Trade Contractor to meet schedule requirements when the Work has been delayed by one or more Separate Contractors and such delay would otherwise give rise to a time extension. The University will compensate the Prime Trade Contractor for the additional costs incurred by such acceleration to the extent that such costs are directly attributable to the acceleration and are incurred through no fault or negligence of the Prime Trade Contractor.

2.6.2 Any acceleration directed by University pursuant to the foregoing provision will be by a Change Order. The University will not be obligated, under any circumstances, to direct such acceleration and may elect, at its option, not to accelerate the Work of the Prime Trade Contractor.

2.6.3 University may accelerate the work of one or more Separate Contractors to meet schedule requirements when the Work of Prime Trade Contractor does not adhere to the Master Project Schedule and said failure to

adhere causes, in whole or in part, a delay in the work of such Separate Contractors and if such delay would otherwise give rise to a time extension. The University may reduce the Contract Sum by the amounts incurred due to the acceleration.

ARTICLE 3

PRIME TRADE CONTRACTOR

3.1 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY PRIME TRADE CONTRACTOR

3.1.1 Prime Trade Contractor shall carefully study and compare each of the Contract Documents with the others and with information furnished by University, and shall promptly report in writing to University's Representative any errors, inconsistencies, or omissions in the Contract Documents or inconsistencies with Applicable Code Requirements observed by Prime Trade Contractor.

3.1.2 Prime Trade Contractor shall take field measurements, verify field conditions, and carefully compare with the Contract Documents such field measurements, conditions, and other information known to Prime Trade Contractor before commencing the Work. Errors, inconsistencies, or omissions discovered at any time shall be promptly reported in writing to University's Representative.

3.1.3 If Prime Trade Contractor performs any construction activity which it knows or should know involves an error, inconsistency, or omission referred to in Articles 3.1.1 and 3.1.2 above, without notifying and obtaining the written consent of University's Representative, Prime Trade Contractor shall be responsible for the resultant losses, including, without limitation, the costs of correcting Defective Work.

3.2 SUPERVISION AND CONSTRUCTION PROCEDURES

3.2.1 Prime Trade Contractor shall supervise, coordinate, and direct the Work using Prime Trade Contractor's best skill and attention. Except as otherwise reserved to the University, Prime Trade Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, procedures, and the coordination of all portions of the Work.

3.2.2 Prime Trade Contractor shall be responsible to University for acts and omissions of Prime Trade Contractor's agents, employees, and Subcontractors, and their respective agents and employees.

3.2.3 Prime Trade Contractor shall not be relieved of its obligation to perform the Work in accordance with the Contract Documents either by acts or omissions of University or University's Representative in the administration of the Contract, or by tests, inspections, or approvals required or performed by persons or firms other than Prime Trade Contractor.

3.2.4 Prime Trade Contractor shall be responsible for inspection of all portions of the Work, including those portions already performed under this Contract, to determine that such portions conform to the requirements of the Contract Documents and are ready to receive subsequent Work.

3.2.5 Prime Trade Contractor shall at all times maintain good discipline and order among its employees and Subcontractors. Prime Trade Contractor shall provide competent, fully qualified personnel to perform the Work.

3.3 LABOR AND MATERIALS

3.3.1 Unless otherwise provided in the Contract Documents, Prime Trade Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation,

and other facilities and services necessary for proper execution and Final Completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

3.4 PRIME TRADE CONTRACTOR'S WARRANTY

3.4.1 Prime Trade Contractor warrants to University that all materials and equipment used in or incorporated into the Work will be of good quality, new, and free of liens, claims, and security interests of third parties; that the Work will be of good quality and free from defects; and that the Work will conform with the requirements of the Contract Documents. If required by University's Representative, Prime Trade Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

3.5 TAXES

3.5.1 Prime Trade Contractor shall pay all sales, consumer, use, and similar taxes for the Work or portions thereof provided by Prime Trade Contractor.

3.6 PERMITS, FEES, AND NOTICES

3.6.1 Except for the permits and approvals which are to be obtained by University or the requirements with respect to which University is not subject as provided in Article 2.1.2 of the General Conditions, Prime Trade Contractor shall secure and pay for all permits, approvals, government fees, licenses, and inspections necessary for the proper execution and performance of the Work. Prime Trade Contractor shall deliver to University all original licenses, permits, and approvals obtained by Prime Trade Contractor in connection with the Work prior to the final payment or upon termination of the Contract, whichever is earlier.

3.7 APPLICABLE CODE REQUIREMENTS

3.7.1 Prime Trade Contractor shall perform the Work in accordance with the following Applicable Code Requirements:

.1 All laws, statutes, the most recent building codes, ordinances, rules, regulations, and lawful orders of all public authorities having jurisdiction over University, Prime Trade Contractor, any Subcontractor, the Project, the Project site, the Work, or the prosecution of the Work.

.2 All requirements of any insurance company issuing insurance required hereunder.

.3 The Federal Occupational Safety and Health Act and all other Applicable Code Requirements relating to safety.

.4 Applicable titles in the State of California Code of Regulations.

.5 Applicable sections in the State of California Labor Code.

.6 All Applicable Code Requirements relating to nondiscrimination, payment of prevailing wages, payroll records, apprentices, and work day.

Without limiting the foregoing, Prime Trade Contractor shall comply with the provisions regarding nondiscrimination, payment of prevailing wages, payroll records, apprentices, and work day set forth in Article 14 of the General Conditions.

3.7.2 Prime Trade Contractor shall comply with and give notices required by all Applicable Code Requirements, including all environmental laws and all notice requirements under the State of California Safe Drinking Water and Enforcement Act of 1986 (State of California Health and Safety Code Section 25249.5 and applicable sections that follow). Prime Trade Contractor shall promptly notify University's Representative in writing if Prime Trade Contractor becomes aware during the performance of the Work that the Contract Documents are at variance with Applicable Code Requirements.

3.7.3 If Prime Trade Contractor performs Work which it knows or should know is contrary to Applicable Code Requirements, without prior notice to University and University's Representative, Prime Trade Contractor shall be responsible for such Work and any resulting damages including, without limitation, the costs of correcting Defective Work.

3.8 SUPERINTENDENT

3.8.1 Prime Trade Contractor shall employ a competent Superintendent satisfactory to University who shall be in attendance at the Project site at all times during the performance of the Work. Superintendent shall represent Prime Trade Contractor and communications given to and received from Superintendent shall be binding on Prime Trade Contractor.

3.8.2 Failure to maintain a Superintendent on the Project site at all times that Work is in progress shall be considered a material breach of this Contract, entitling University to terminate the Contract or alternatively, issue a stop Work order until the Superintendent is on the Project site. If, by virtue of issuance of said stop Work order, the Project is not completed within the Contract Time, Prime Trade Contractor will be assessed Liquidated Damages in accordance with the Agreement.

3.8.3 The Superintendent approved for the Project must be able to read, write and verbally communicate in English.

3.8.4 The superintendent may not perform the Work of any trade, pick-up materials, or perform any Work not directly related to the supervision and coordination of the Work at the Project site when Work is in progress.

3.9 SCHEDULES REQUIRED OF PRIME TRADE CONTRACTOR

3.9.1 The University's Representative has developed an overall "Preliminary Master Project Schedule" indicating major milestones and construction sequences for the Project, showing the general timing for the work of Prime Trade Contractor. This Preliminary Master Project Schedule is for Bidder information and guidance only, and is not intended to serve as the Master Project Schedule that will be utilized for construction. However, the construction milestones and sequences shall be the basis for the Master Project Schedule, unless the University's Representative modifies them to improve the overall progress and completion by utilizing revised logic and revised schedule.

3.9.2 Using the Prime Trade Contract Schedules submitted by each of the Prime Trade Contractors, the University’s Representative will develop and issue the Master Project Schedule showing completion of the Project within the Project Time. University Representative may require additional information from the Prime Trade Contractor during development of the Master Project Schedule.

3.9.3 The University Representative may impose upon the Prime Trade Contractor, in the initial Master Project Schedule, whatever scheduling requirements are deemed appropriate, consistent with the Preliminary Master Project Schedule, and the Prime Trade Contractor shall comply with any such requirements, at no additional cost to University.

3.9.4 The Prime Trade Contractor shall submit updated schedule information to University’s Representative within the time limits required by the Specifications and acceptable to University’s Representative. The University Representative may, at any time, make reasonable adjustments, at no cost to the University, to the Master Project Schedule so that the Project may be completed within the Contract Time, or if completion within the Contract Time is impracticable, to mitigate damages to the University resulting from late completion of the Project.

3.9.5 The Master Project Schedule shall represent a practical plan to complete the Work so that the entire Project can be fully completed within the Project Time.

3.9.6 The Prime Trade Contractor shall prepare and keep current, to the satisfaction of University's Representative, a Submittal Schedule, in the form contained in the Exhibits, for each submittal, as required by the Specifications, and that are coordinated with the other activities in the Master Project Schedule.

3.9.7 Prime Trade Contractor shall plan, develop, supervise, control, and coordinate the performance of the Work so that its progress and the sequence and timing of Work activities conform to the current Master Project Schedule. Prime Trade Contractor shall continuously obtain from Subcontractors updated information and data about the planning for and progress of the Work and the delivery of equipment, shall coordinate, and monitor the progress of the Work and the delivery of equipment. Prime Trade Contractor shall act as the expeditor of potential and actual delays, interruptions, hindrances, or disruptions for its own forces and those forces of Subcontractors, regardless of tier. Prime Trade Contractor shall cooperate with University's Representative in the development of the Prime Trade Contract Schedule, the Master Project Schedule, and their updates.

University's Representative's acceptance of or its review comments about Prime Trade Contractor Schedule or scheduling data provided by Prime Trade Contractor shall not relieve Prime Trade Contractor of its sole responsibility to plan for, perform, and fully complete its Work within the Contract Time. Acceptance of or review comments about the Prime Trade Contractor Schedule shall not imply the University’s agreement with (1) any assumption upon which such Prime Trade Contractor Schedule is based, or (2) any matter underlying or contained in such Prime Trade Contractor Schedule.

Failure of University's Representative to discover errors or omissions in the Prime Trade Contractor Schedules that it has reviewed, or to inform Prime Trade Contractor that Prime Trade Contractor is behind schedule, or to direct or enforce procedures for complying with the Master Project Schedule shall not relieve Prime Trade Contractor from its sole responsibility to perform and complete the Work and shall not be a cause for an adjustment of the Contract Time or the Contract Sum.

3.9.8 The Work may require performance in several areas of the project simultaneously in order to fully complete the Project within the Project Time. As each area becomes available, Prime Trade Contractor shall begin work in those respective areas with additional crews if necessary to avoid a reduction of effort in other areas already under construction.

3.9.9 Subject to University's rights under the Prime Trade Contract or at law, time is of the essence in the Prime Trade Contractor's performance of this Contract. Prime Trade Contractor agrees to promptly commence work when directed by University's Representative.

3.9.10 In addition to any completion dates required under the Prime Trade Contract, the Prime Trade Contractor agrees to perform the work in accordance with University's Representative's Master Project Schedule, including all subsequent modifications to the Master Project Schedule by University's Representative. Prime Trade Contractor agrees to perform the work in a way that will not delay University, University's Representative, or the progress of the Project, all at Prime Trade Contractor's cost and without additional cost or liability to University.

3.9.11 If, at any time during Prime Trade Contractor's performance of the work, the actual progress of the Prime Trade Contractor's Work falls behind the Master Project Schedule, then Prime Trade Contractor agrees to immediately take any steps necessary per University's Representative's sole discretion to improve progress in the Work or the Project. All these steps will be taken at Prime Trade Contractor's cost and without additional cost or liability to the University. If for any reason the Prime Trade Contractor's progress is not in accord with University's Representative's current Master Project Schedule, including remedial schedules, or any dates or intervals required elsewhere by the Prime Trade Contract, University's Representative may require Prime Trade Contractor to increase its labor force, its supervision force, the number of work shifts, overtime, work on weekends and holidays, the equipment on the Project, revise or modify its construction procedures and sequences and any other measures which University's Representative considers necessary, all without additional cost or liability to University. Neither notice by University's Representative nor the failure to issue notice that Prime Trade Contractor's progress is inadequate shall relieve Prime

Trade Contractor from its obligation to achieve the quality of work and rate of progress required by University's Representative.

If University incurs expense or loss or it appears that University may sustain expense or loss due to Prime Trade Contractor's failure to comply with the above provisions, University or University's Representative may either deduct that amount from any progress payment or retention payable to Prime Trade Contractor and/or delay payment of any sums otherwise owing to Prime Trade Contractor until the situation is remedied or adjusted to University's or University's Representative's satisfaction.

3.9.12 The University Representative will schedule and coordinate the activities of the Prime Trade Contractor in accordance with the latest approved Master Project Schedule. The Prime Trade Contractor shall cooperate with the University Representative in the reasonable determinations of scheduling and performing the Prime Trade Contractor's work to avoid conflict, delay in or interference with the Work or other Prime Trade Contractors, or Separate Contractors, regardless of their float shown on the Master Project Schedule.

3.9.13 University's Representative may, at any time, update, supplement or revise its Master Project Schedule and/or require Prime Trade Contractor to suspend, delay or re-sequence its work. Such updates, supplements, revisions, suspensions, delays or re-sequencing shall be without additional cost or liability to University except to the extent they result in Prime Trade Contractor working beyond the Contract Time, through no fault of the Prime Trade Contractor. To the extent such updates, supplements, revisions, suspensions, delays or re-sequencing result in Prime Trade Contractor working beyond the Contract Time, through no fault of the Prime Trade Contractor, the Prime Trade Contract shall be subject to adjustment provided the Prime Trade Contractor complies with the requirements of the Prime Trade Contract for seeking an adjustment, including without limitation, the requirements set forth in Articles 4, 7 and 8 of the General Conditions. Notwithstanding the foregoing, the University may elect to accelerate the work of one or more Separate Contractors to reduce or eliminate the delay and require the Prime Trade Contractor to complete its Work within the Contract Time.

3.10 AS-BUILT DOCUMENTS

3.10.1 Prime Trade Contractor shall maintain one set of As-built drawings and specifications, which shall be kept up to date during the Work of the Contract. All changes which are incorporated into the Work which differ from the documents as drawn and written shall be noted on the As-built set. Notations shall reflect the actual materials, equipment, and installation methods used for the Work and each revision shall be initialed and dated by Superintendent. Prior to filing of the Notice of Completion each drawing and the specification cover shall be signed by Prime Trade Contractor and dated attesting to the completeness of the information noted therein. As-built Documents shall be turned over to the University's Representative and shall become part of the Record Documents.

3.11 DOCUMENTS AND SAMPLES AT PROJECT SITE

3.11.1 Prime Trade Contractor shall maintain the following at the Project site:

.1 One as-built copy of the Contract Documents, in good order and marked to record current changes and selections made during construction.

.2 The current accepted Master Project Schedule and Prime Trade Contractor Schedule.

.3 Shop Drawings, Product Data, and Samples.

.4 All other required submittals.

These shall be available to University's Representative and shall be delivered to University's Representative for submittal to University upon the earlier of Final Completion or termination of the Contract.

3.12 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by Prime Trade Contractor or a Subcontractor to illustrate some portion of the Work.

.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by Prime Trade Contractor to illustrate or describe materials or equipment for some portion of the Work.

.3 Samples are physical examples which illustrate materials, equipment, or workmanship and establish standards by which the Work will be judged.

3.12.2 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate, for those portions of the Work for which submittals are required, how Prime Trade Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents.

3.12.3 Prime Trade Contractor shall review, approve, and submit to University's Representative Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of University or of Separate Contractors. Submittals made by Prime Trade Contractor which are not required by the Contract Documents may be returned without action by University's Representative.

3.12.4 Prime Trade Contractor shall perform no portion of the Work requiring submittal and review of Shop Drawings, Product Data, Samples, or similar submittals until the respective submittal has been reviewed by University's Representative and no exceptions have been taken by University's Representative. Such Work shall be in accordance with approved submittals and the Contract Documents.

3.12.5 By approving and submitting Shop Drawings, Product Data, Samples, and similar submittals, Prime Trade Contractor represents that it has determined or verified materials and field measurements and conditions related thereto, and that it has checked and coordinated the information contained within such submittals with the requirements of the Contract Documents and Shop Drawings for related Work.

3.12.6 If Prime Trade Contractor discovers any conflicts, omissions, or errors in Shop Drawings or other submittals, Prime Trade Contractor shall notify University's Representative and receive instruction before proceeding with the affected Work.

3.12.7 Prime Trade Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by University's Representative's review of Shop Drawings, Product Data, Samples, or similar submittals, unless Prime Trade Contractor has specifically informed University's Representative in writing of such deviation at the time of submittal and University's Representative has given written approval of the specific deviation. Prime Trade Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals by University's Representative's review, acceptance, comment, or approval thereof.

3.12.8 Prime Trade Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by University's Representative on previous submittals.

3.13 USE OF SITE AND CLEAN UP

3.13.1 Prime Trade Contractor shall confine operations at the Project site to areas permitted by law, ordinances, permits, and the Contract Documents. Prime Trade Contractor shall not unreasonably encumber the Project site with materials or equipment.

3.13.2 Prime Trade Contractor shall, during performance of the Work, keep the Project site and surrounding area free from the accumulation of excess dirt, waste materials, and rubbish caused by Prime Trade Contractor. Prime Trade Contractor shall remove all excess dirt, waste material, and rubbish caused by the Prime Trade Contractor; tools; equipment; machinery; and surplus materials from the Project site and surrounding area at the completion of the Work.

3.13.3 Personnel of Prime Trade Contractor and Subcontractors shall not occupy, live upon, or otherwise make use of the Project site during any time that Work is not being performed at the Project site, except as otherwise provided in the Contract Documents.

3.14 CUTTING, FITTING, AND PATCHING

3.14.1 Prime Trade Contractor shall do all cutting, fitting, or patching of the Work required to make all parts of the Work come together properly and to allow the Work to receive or be received by work of Separate Contractors shown upon, or reasonably implied by, the Contract Documents.

3.14.2 Prime Trade Contractor shall not endanger the Work, the Project, or adjacent property by cutting, digging, or otherwise. Prime Trade Contractor shall not cut or alter the work of any Separate Prime Trade Contractor without the prior consent of University's Representative.

3.15 ACCESS TO WORK

3.15.1 University, University's Representative, their consultants, and other persons authorized by University will at all times have access to the Work wherever it is in preparation or progress. Prime Trade Contractor shall provide safe and proper facilities for such access and for inspection.

3.16 ROYALTIES AND PATENTS

3.16.1 Prime Trade Contractor shall pay all royalties and license fees required for the performance of the Work. Prime Trade Contractor shall defend suits or claims resulting from Prime Trade Contractor's or any Subcontractor's infringement of patent rights and shall Indemnify University and University's Representative from Losses on account thereof.

3.17 DIFFERING SITE CONDITIONS

3.17.1 If Prime Trade Contractor encounters any of the following conditions at the site, Prime Trade Contractor shall immediately notify the University's Representative in writing of the specific differing conditions before they are disturbed and before any affected Work is performed, and permit investigation of the conditions:

.1 Subsurface or latent physical conditions at the site which differ materially from those indicated in this Contract, or if not indicated in this Contract, in the Information Available to Bidders; or

.2 Unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.

3.17.2 Prime Trade Contractor shall be entitled to an adjustment to the Contract Sum and/or Contract Time as the result of extra costs and/or delays resulting from a materially differing site condition, if and only if Prime Trade Contractor fulfills the following conditions:

.1 Prime Trade Contractor fully complies with Article 3.17.1 above; and

.2 Prime Trade Contractor fully complies with Article 4 of the General Conditions (including the timely filing of a Change Order Request and all other requirements for Change Orders Requests and Claims).

3.17.3 Adjustments to the Contract Sum and/or Contract Time shall be subject to the procedures and limitations

set forth in Articles 7 and 8 of the General Conditions.

3.18 CONCEALED, UNFORESEEN, OR UNKNOWN CONDITIONS OR EVENTS

3.18.1 Except and only to the extent provided otherwise in Articles 3.17, 7 and 8 of the General Conditions, by signing the Agreement, Prime Trade Contractor agrees:

.1 To bear the risk of concealed, unforeseen or unknown conditions and events, if any, which may be encountered in performing the Contract; and

.2 That Prime Trade Contractor's bid for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of concealed, unforeseen or unknown conditions and events, Prime Trade Contractor understands that, except and only to the extent provided otherwise in Articles 3.17, 7 and 8 of the General Conditions, concealed, unforeseen or unknown conditions and events shall not excuse Prime Trade Contractor from its obligation to achieve full completion of the Work within the Contract Time, and shall not entitle the Prime Trade Contractor to an adjustment of the Contract Sum.

3.18.2 If Prime Trade Contractor encounters concealed or unknown conditions that differ materially from those anticipated or expected, Prime Trade Contractor shall immediately notify University's Representative in writing such that University's Representative can determine if such conditions require design details which differ from those design details shown in the Contract Documents. Prime Trade Contractor shall be liable to University for any extra costs incurred as the result of Prime Trade Contractor's failure to immediately give such notice.

3.18.3 If concealed or unknown conditions are encountered which require, in the opinion of University's Representative, design details which differ from those design details shown in the Contract Documents and the University's Representative finds that such revised design details will cause an increase or decrease in the cost of, or the time required for performance of the Contract, and if University agrees with the University's Representative's determinations, University will issue a Change Order modifying the Contract Terms to provide for the change in design details and to provide for an adjustment in the Contract Sum and/or Contract Time pursuant to Articles 7 and 8 of the General Conditions.

3.18.4 Prime Trade Contractor shall, as a condition precedent to any adjustment in Contract Sum or Contract Time under Article 3.18.3 above, fully comply with Article 4 of the General Conditions (including the timely filing of a Change Order Request and all other requirements for Change Orders Requests and Claims).

3.19 INFORMATION AVAILABLE TO BIDDERS

3.19.1 Any information provided pursuant to INFORMATION AVAILABLE TO BIDDERS is subject to the following provisions:

.1 The information is made available for the convenience of Bidders and is not a part of the Contract.

.2 The Prime Trade Contractor may rely on written descriptions of physical conditions included in the information to the extent such reliance is reasonable.

.3 Other components of the information, including but not limited to recommendations, may not be relied upon by Prime Trade Contractor. University shall not be responsible for any interpretation of or conclusion drawn from the other components of the information by the Prime Trade Contractor.

3.20 LIABILITY FOR AND REPAIR OF DAMAGED WORK

3.20.1 Prime Trade Contractor shall be liable for any and all damages and losses to the Project (whether by fire, theft, vandalism, earthquake or otherwise) prior to University's acceptance of the Project as fully completed except that Prime Trade Contractor shall not be liable for:

.1 Losses covered by the builder's risk property insurance provided by University pursuant to Article 11

of the General Conditions, except that the Prime Trade Contractor shall be liable for any deductible(s) and any amounts exceeding policy limits.

.2 Earthquake, tidal wave, or flood, provided that the loss was not caused in whole or in part by the negligent acts or omissions of Prime Trade Contractor, its officers, agents or employees (including all Subcontractors and suppliers of all tiers). As used herein, “flood” shall have the same meaning as in the builder’s risk property insurance.

3.20.2 Prime Trade Contractor shall promptly repair and replace any Work or materials damaged or destroyed for which the Prime Trade Contractor is liable under Article 3.20.1 above.

3.21 INDEMNIFICATION

3.21.1 Prime Trade Contractor shall Indemnify University, University's consultants, University's Representative, University's Representative's consultants, and their respective directors, officers, agents, and employees from and against losses arising out of, resulting from, or relating to the following:

.1 The failure of Prime Trade Contractor to perform its obligations under the Contract.

.2 The inaccuracy of any representation or warranty by Prime Trade Contractor given in accordance with or contained in the Contract Documents.

.3 Any claim of damage or loss by any Subcontractor or Separate Contractor against University arising out of any alleged act or omission of Prime Trade Contractor or any other Subcontractor, or anyone directly or indirectly employed by Prime Trade Contractor or any Subcontractor.

3.21.2 The University shall not be liable or responsible for any accidents, loss, injury (including death) or damages happening or accruing during the term of the performance of the Work herein referred to or in connection therewith, to persons and/or property, and Prime Trade Contractor shall fully indemnify, defend and hold harmless University and protect University from and against the same. In addition to the liability imposed by law upon the Prime Trade Contractor for damage or injury (including death) to persons or property by reason of the negligence of the Prime Trade Contractor, its officers, agents, employees or Subcontractors, which liability is not impaired or otherwise affected hereby, the Prime Trade Contractor shall defend, indemnify, hold harmless, release and forever discharge the University, its officers, employees, and agents from and against and waive any and all responsibility of same for every expense, liability, or payment by reason of any damage or injury (including death) to persons or property suffered or claimed to have been suffered through any negligent act, omission, or willful misconduct of the Prime Trade Contractor, its officers, agents, employees, or any of its Subcontractors, or anyone directly or indirectly employed by either of them or from the condition of the premises or any part of the premises while in control of the Prime Trade Contractor, its officers, agents, employees, or any of its Subcontractors or anyone directly or indirectly employed by either of them, arising out of the performance of the Work called for by this Contract. Prime Trade Contractor agrees that this indemnity and hold harmless shall apply even in the event of negligence of University, its officers, agents, or employees, regardless of whether such negligence is contributory to any claim, demand, loss, damage, injury, expense, and/or liability; but such indemnity and hold harmless shall not apply in the event of the sole negligence of University, its officers, agents, or employees.

3.21.3 In claims against any person or entity indemnified under this Article 3.21that are made by an employee of Prime Trade Contractor or any Subcontractor, a person indirectly employed by Prime Trade Contractor or any Subcontractor, or anyone for whose acts Prime Trade Contractor or any Subcontractor may be liable, the indemnification obligation under this Article 3.21 shall not be limited by any limitation on amount or type of damages, compensation, or benefits payable by or for Prime Trade Contractor or any Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

3.21.4 The indemnification obligations under this Article 3.21 shall not be limited by any assertion or finding that the person or entity indemnified is liable by reason of a non-delegable duty.

3.21.5 Prime Trade Contractor shall Indemnify University from and against Losses resulting from any claim of damage made by any Separate Contractor against University arising out of any alleged acts or omissions of Prime Trade Contractor, any Subcontractor, anyone directly or indirectly employed by either of them, or anyone for whose acts either of them may be liable.

3.21.6 Prime Trade Contractor shall Indemnify Separate Contractors from and against Losses arising out of the negligent acts, omissions, or willful misconduct of Prime Trade Contractor, any Subcontractor, anyone directly or indirectly employed by either of them, or anyone for whose acts either of them may be liable.

ARTICLE 4

ADMINISTRATION OF THE CONTRACT

4.1 ADMINISTRATION OF THE CONTRACT BY UNIVERSITY'S REPRESENTATIVE

4.1.1 University's Representative will provide administration of the Contract as provided in the Contract Documents and will be the representative of University. University's Representative will have authority to act on behalf of University only to the extent provided in the Contract Documents.

4.1.2 University's Representative will have the right to visit the Project site at such intervals as deemed appropriate by the University's Representative. However, no actions taken during such Project site visit by University's Representative shall relieve Prime Trade Contractor of its obligations as described in the Contract Documents.

4.1.3 Except as otherwise reserved to the University, University's Representative will not have control over, will not be in charge of, and will not be responsible for construction means, methods, techniques, sequences, coordination or procedures, or for safety precautions and programs in connection with the Work, since these are solely Prime Trade Contractor's responsibility.

4.1.4 Except as otherwise provided in the Contract Documents or when direct communications have been specifically authorized, University and Prime Trade Contractor shall communicate through University's Representative. Communications by Prime Trade Contractor with University's consultants and University's Representative's consultants shall be through University's Representative. Communications by University and University's Representative with Subcontractors will be through Prime Trade Contractor. Communications by Prime Trade Contractor and Subcontractors with Separate Contractors shall be through University's Representative. Prime Trade Contractor shall not rely on oral or other non-written communications.

4.1.5 Based on University's Representative's Project site visits and evaluations of Prime Trade Contractor's Applications For Payment, University's Representative will recommend amounts, if any, due Prime Trade Contractor and will issue Certificates For Payment in such amounts.

4.1.6 University's Representative will have the authority to reject the Work, or any portion thereof, which does not conform to the Contract Documents. University's Representative will have the authority to stop the Work or any portion thereof. Whenever University's Representative considers it necessary or advisable for implementation of the intent of the Contract Documents, University's Representative will have the authority to require additional inspection or testing of the Work in accordance with the Contract Documents, whether or not such Work is fabricated, installed, or completed. However, no authority of University's Representative conferred by the Contract Documents nor any decision made in good faith either to exercise or not exercise such authority, will give rise to a duty or responsibility of University or University's Representative to Prime Trade Contractor, or any person or entity claiming under or through Prime Trade Contractor.

4.1.7 University's Representative will have the authority to conduct inspections as provided in the Contract Documents, to take Beneficial Occupancy and to determine the dates of Substantial Completion, Project

Substantial Completion, and Final Completion; will receive for review and approval any records, written warranties, and related documents required by the Contract Documents and assembled by Prime Trade Contractor; and will issue a final Certificate For Payment upon Prime Trade Contractor's compliance with the requirements of the Contract Documents.

4.1.8 University's Representative will be, in the first instance, the interpreter of the requirements of the Contract Documents and the judge of performance thereunder by Prime Trade Contractor. Should Prime Trade Contractor discover any conflicts, omissions, or errors in the Contract Documents; have any questions about the interpretation or clarification of the Contract Documents; question whether Work is within the scope of the Contract Documents; or question that Work required is not sufficiently detailed or explained, then, before proceeding with the Work affected, Prime Trade Contractor shall notify University's Representative in writing and request interpretation, clarification, or furnishing of additional detailed instructions. University's Representative's response to questions and requests for interpretations, clarifications, instructions, or decisions will be made with reasonable promptness. Should Prime Trade Contractor proceed with the Work affected before receipt of a response from University's Representative, any portion of the Work which is not done in accordance with University's Representative's interpretations, clarifications, instructions, or decisions shall be removed or replaced and Prime Trade Contractor shall be responsible for all resultant losses.

4.2 PRIME TRADE CONTRACTOR CHANGE ORDER REQUESTS

4.2.1 Prime Trade Contractor may request changes to the Contract Sum and/or Contract Time for Extra Work, materially differing site conditions, or Delays to Final Completion of the Work.

4.2.2 Conditions precedent to obtaining an adjustment of the Contract Sum and/or Contract Time, payment of money, or other relief with respect to the Contract Documents, for any other reason, are:

.1 Timely submission of a Change Order Request that meets the requirements of Articles 4.2.3.1 and 4.2.3.2 below; and

.2 If requested, timely submission of additional information requested by the University Representative pursuant to Article 4.2.3.3 below.

4.2.3 Change Order Request:

4.2.3.1 A Change Order Request will be deemed timely submitted if, and only if, it is submitted within 7 days of the date the Prime Trade Contractor discovers, or reasonably should discover the circumstances giving rise to the Change Order Request, unless additional time is allowed in writing by University’s Representative for submission of the Change Order Request.

4.2.3.2 A Change Order Request must state that it is a Change Order Request, state and justify the reason for the request, and specify the amount of any requested adjustment of the Contract Sum, Contract Time, and/or other monetary relief. If the Prime Trade Contractor requests an adjustment to the Contract Sum or other monetary relief, the Prime Trade Contractor shall submit the following with the Change Order Request:

.1 A completed Cost Proposal in the form contained in the Exhibits meeting the requirements of Article 7 of the General Conditions; OR

.2 A partial Cost Proposal and a declaration of what required information is not then known to Prime Trade Contractor. If Prime Trade Contractor failed to submit a completed Cost Proposal with the Change Order Request, Prime Trade Contractor shall submit a completed Cost Proposal meeting the requirements of Article 7 within 7 days of the date the Prime Trade Contractor submitted the Change Order Request unless additional time is allowed by the University’s Representative.

4.2.3.3 Upon request of University's Representative, Prime Trade Contractor shall submit such additional information as may be requested by University's Representative for the purpose of evaluating the Change Order Request. Such additional information may include:

.1 If Prime Trade Contractor seeks an adjustment of the Contract Sum or other monetary relief, actual cost records for any changed or extra costs (including without limitation, payroll records, material and rental invoices and the like), shall be submitted by the deadline established by the University's Representative, who may require such actual cost records to be submitted and reviewed, on a daily basis, by the University's Representative and/or representatives of the University's Representative.

.2 If Prime Trade Contractor seeks an adjustment of the Contract Time, written documentation demonstrating Prime Trade Contractor's entitlement to a time extension under Article 8.4 of the General Conditions, which shall be submitted within 15 days of the date requested.

.3 If Prime Trade Contractor seeks an adjustment of the Contract Sum or other monetary relief for delay, written documentation demonstrating Prime Trade Contractor's entitlement to such an adjustment under Article 7.3.9 of the General Conditions, which shall be submitted within 15 days of the date requested.

.4 Any other information requested by the University's Representative for the purpose of evaluating the Change Order Request, which shall be submitted by the deadline established by the University's Representative.

4.2.4 University's Representative will make a decision on a Change Order Request, within a reasonable time, after receipt of a Change Order Request. A final decision is any decision on a Change Order Request which states that it is final. If University's Representative issues a final decision denying a Change Order Request in whole or in part, the Prime Trade Contractor may contest the decision by filing a timely Claim under the procedures specified in Article 4.4 below.

4.2.5 Prime Trade Contractor may file a written demand for a final decision by University's Representative on all or part of any Change Order Request as to which the University's Representative has not previously issued a final decision pursuant to Article 4.2.4 above; such written demand may not be made earlier than the 30th day after submission of the Change Order Request. Within 30 days of receipt of the demand, University's Representative will issue a final decision on the Change Order Request. The University's Representative's failure to issue a decision within the 30-day period shall be treated as the issuance, on the last day of the 30-day period, of a final decision to deny the Change Order Request in its entirety.

4.3 CLAIMS

4.3.1 The term "Claim" means a written demand or assertion by Prime Trade Contractor seeking an adjustment or interpretation of the terms of the Contract Documents, payment of money, extension of time, or other relief with respect to the Contract Documents, including a determination of disputes or matters in question between University and Prime Trade Contractor arising out of or related to the Contract Documents or the performance of the Work. However, the term "Claim" shall not include, and the Claims procedures provided under this Article 4, including but not limited to arbitration, shall not apply to the following:

.1 Claims respecting penalties for forfeitures prescribed by statute or regulation which a government agency is specifically authorized to administer, settle, or determine.

.2 Claims respecting personal injury, death, reimbursement, or other compensation arising out of or resulting from liability for personal injury or death.

.3 Claims by University, except as set forth in Articles 4.5, 4.6, and 4.7 of the General Conditions.

.4 Claims respecting stop payment notices.

4.3.2 A Claim arises upon the issuance of a written final decision denying in whole or in part Prime Trade Contractor's Change Order Request pursuant to Articles 4.2.4 and 4.2.5 above.

4.3.3 A Claim must include the following:

.1 A statement that it is a Claim and a request for a decision pursuant to Article 4.5 of the General Conditions.

.2 A detailed factual narrative of events fully describing the nature and circumstances giving rise to the Claim, including but not limited to, necessary dates, locations, and items of work affected.

.3 A certification executed by Prime Trade Contractor, that the claim is filed in good faith. The certification must be made on the Claim Certification form, included in the Exhibits to the Contract. The language of the Claim Certification form may not be modified.

.4 A certification, executed by each Subcontractor claiming not less than 5% of the total monetary amount sought by the claim, that the subcontractor's portion of the claim is filed in good faith. The certification must be made on the Claim Certification form, included in the Exhibits to the Contract. The language of the Claim Certification form may not be modified. Exhibit.

.5 A statement demonstrating that a Change Order Request was timely submitted as required by Article 4.2.3 above.

.6 If a Cost Proposal or declaration was required by Article 4.2.3, a statement demonstrating that the Cost Proposal or the declaration was timely submitted as required by Article 4.2.3.

.7 A detailed justification for any remedy or relief sought by the Claim, including to the extent applicable, the following:

.1 If the Claim involves Extra Work, a detailed cost breakdown of the amounts claimed, including the items specified in Article 7.3.2 of the General Conditions. The cost breakdown must be provided even if the costs claimed have not been incurred when the Claim is submitted. To the extent costs have been incurred when the Claim is submitted, the Claim must include actual cost records (including without limitation, payroll records, material and rental invoices and the like) demonstrating that costs claimed have actually been incurred. To the extent costs have not yet been incurred at the time the Claim is submitted, actual cost records must be submitted on a current basis not less than once a week during any periods costs are incurred. A cost record will be considered current if submitted within 7 days of the date the cost reflected in the record is incurred. At the request of the University's Representative, claimed extra costs may be subject to further verification procedures (such as having an inspector verify the performance of alleged Extra Work on a daily basis). The cost breakdown must include an itemization of costs for i) labor including workers' names, classifications, regular hours and overtime hours worked, dates worked, and other pertinent information; ii) materials stored or incorporated in the work including invoices, purchase orders, location of materials either stored or incorporated into the work, dates materials were transported to the project or incorporated into the work, and other pertinent information; and iii) itemization of machinery and equipment including make, model, serial number, hours of use, dates of use and equipment rental rates of any rented equipment Contract.

.2 If the Claim involves an extension of the Contract Time, written documentation demonstrating the Prime Trade Contractor's entitlement to a time extension under Article 8.4 of the General Conditions, including the specific dates for which a time extension is sought and the specific reasons for entitlement of a time extension. The Master Project Schedule must demonstrate Prime Trade Contractor's entitlement to an adjustment of Contract Time under Article 8.4.

.3 If the Claim involves an adjustment of the Contract Sum for delay, written documentation demonstrating the Prime Trade Contractor's entitlement to such an adjustment under Article 7.3.9 of the General Conditions, including but not limited to, a detailed time impact analysis of the Master Project Schedule. The Master Project Schedule must demonstrate Prime Trade Contractor's entitlement to such an adjustment under Article 7.3.9.

4.4 ASSERTION OF CLAIMS

4.4.1 Claims by Prime Trade Contractor shall be first submitted to University's Representative for decision.

4.4.2 Notwithstanding the making of any Claim or the existence of any dispute regarding any Claim, unless otherwise directed by University's Representative, Prime Trade Contractor shall not cause any delay, cessation, or termination in or of Prime Trade Contractor's performance of the Work, but shall diligently proceed with performance of the Work in accordance with the Contract Documents.

4.4.3 Prime Trade Contractor shall submit a Claim in writing, together with the supporting data specified in Article 4.3.3 above, to University's Representative as soon as possible but not later than 30 days after the date the claim arises under Article 4.3.2 above.

4.4.4 Strict compliance with the requirements of Articles 4.2, 4.3, and 4.4 of the General Conditions are conditions precedent to Prime Trade Contractor's right to an informal conference to meet and confer to resolve a Claim, mediate a Claim, or arbitrate or litigate a Claim. Prime Trade Contractor specifically agrees to assert no Claims via an informal conference, mediation, arbitration or litigation unless there has been strict compliance with Articles 4.2, 4.3, and 4.4. The failure of Prime Trade Contractor to strictly comply with the requirements of Articles 4.2, 4.3 and 4.4 constitutes a failure by Prime Trade Contractor to exhaust its administrative remedies with the University, thereby denying any court or arbitration panel of jurisdiction to adjudicate the Claim.

4.5 DECISION OF UNIVERSITY'S REPRESENTATIVE ON CLAIMS

4.5.1 University's Representative will timely review Claims submitted by Prime Trade Contractor. If University's Representative determines that additional supporting data are necessary to fully evaluate a Claim, University's Representative will request such additional supporting data in writing. Such data shall be furnished no later than 10 days after the date of such request. University's Representative will render a decision promptly and in any case within 30 days after the later of the receipt of the Claim or the deadline for furnishing such additional supporting data; provided that, if the amount of the Claim is in excess of $50,000, the aforesaid 30-day period shall be 45 days. Failure of University's Representative to render a decision by the applicable deadline will be deemed a decision denying the Claim on the date of the deadline, unless, upon receipt of a Claim, Contractor and University mutually agree to extend the time periods provided herein, or unless otherwise extended by law. The decision of University's Representative will be final and binding unless appealed in accordance with Articles 4.5.2, 4.6, and 4.7 below.

The University's Representative's decision on a Claim or dispute will include a written statement both identifying all disputed and undisputed portions of the Claim and substantially including the following:

> "This is a decision under Article 4.5 of the General Conditions of your contract. If you are dissatisfied with the decision, and if you complied with the procedural requirements for asserting claims specified in Article 4 of the General Conditions of your contract, you may have the right to demand in writing an informal conference to meet and confer for settlement of any remaining issues in dispute, following which, if still dissatisfied, you may demand in writing a further resolution via nonbinding mediation, after which you have the right to arbitrate or litigate this decision. If you fail to take appropriate action within 30 days of the date of this decision, the decision shall become final and binding and not subject to further appeal."

4.5.2 If either Contractor or University disputes University's Representative's decision on a Claim, then, within 30 days after the decision of University's Representative on the Claim, or, if no decision has been issued, within 30 days from the date of the applicable deadline in Article 4.5.1 for University Representative to render a decision, such party (the "Disputing Party") must provide written notice demanding an informal conference to meet and confer. University shall schedule the conference within 30 days upon receipt of the notice demanding an informal conference. The parties will attempt in good faith to resolve any controversy or Claim arising out of or relating to this Contract by negotiation at the conference

4.6 MEDIATION

4.6.1 Within 10 business days following the informal conference to meet and confer stated in Article 4.5.2, if the Claim or any portion of the Claim remains in dispute, the University shall provide a written statement identifying the disputed and undisputed portions of the Claim. Within 30 days of receipt of the statement, if either Contractor or University disputes any portion of the Claim, then the Disputing Party must provide written notice to the non-disputing party demanding non-binding mediation. The Contractor and the University shall share the associated costs equally and shall mutually agree to a mediator within 10 business days. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim, with each party bearing the fees and costs of its respective mediator. Mediation shall include, but not be limited to, neutral evaluation, a dispute review board, or other negotiation or evaluation through an independent third party or board. The Contractor and the University may mutually agree to waive any individual mediation in writing and proceed to arbitration or litigation pursuant to this Contract.

4.7 LITIGATION AND ARBITRATION

4.7.1 Either party may provide a written notice of its election to arbitrate or provide written notice of its election to litigate the Claim within 30 days after the mediation pursuant to Article 4.6.1, or, if the parties mutually agreed in writing to waive mediation, within 30 days after the agreement is signed by both parties.

4.7.2 If a notice of election to arbitrate or litigate is not given by either party within 30 days pursuant to Article 4.7.1, University's Representative's decision on the Claim will be final and binding and not subject to appeal or challenge.

4.7.3 If the Disputing Party gives timely notice of its election to arbitrate the University's Representative's decision on a Claim, Disputing Party shall have the right, within 120 days after a Notice of Completion, or a Notice of Cessation, as applicable, is filed for the Contract, to make a demand for arbitration in accordance with Article 4.7. Failure to perfect a Claim for which a timely election to arbitrate has been made by the timely filing of a demand for arbitration and timely payment of all applicable and required fees to the American Arbitration Association (“AAA”) shall result in the University’s Representative’s decision on said Claim becoming final and binding and not subject to appeal or challenge. If the Disputing Party makes a timely demand for arbitration, and the amount of the Claim in question, when combined with all other Claims, if any, which are the subject of previously filed demands for arbitration that have not been resolved by settlement or arbitration award, is $100,000 or more, then the other party may elect to litigate all such Claims by filing a written notice with the AAA within 30 days after its receipt of notice from the AAA of the Disputing Party's demand for arbitration of the Claim that raises the total amount of Claims subject to arbitration to $100,000 or more. If the other party fails to give notice of its election to litigate within such 30-day period, it shall be deemed to have consented to arbitration and waived the right to litigate. If after commencement of arbitration the amount of unresolved Claims in arbitration are allowed to be increased to $100,000 or more, through an AAA-allowed amendment or otherwise, either party may elect to litigate within 30 days following the date that the electing party first receives written notification from the AAA that total Claims in arbitration equal or exceed $100,000. If neither party gives notice of its election to litigate within such 30-day period as applicable, then both parties shall be deemed to have consented to arbitration and waived the right to litigate.

4.7.4 A demand for arbitration pursuant to Article 4.7.3 above shall include a copy of the Claim presented to University’s Representative pursuant to Article 4.4 above, a copy of the decision of University's Representative pursuant to Article 4.5, if any, a copy of the University’s written statement identifying the portion of the Claim that remained in dispute following the informal conference pursuant to Article 4.6.1, and a summary of the remaining portions of the Claim in dispute. The demand shall state the amount in controversy, if any, and state the remedy sought. The demand shall identify the University’s Responsible Administrator as the representative of the responding party and the Office of the General Counsel as counsel for the responding party. The demand shall be filed with the AAA and shall not be deemed to have been made until all applicable fees have been paid to the AAA

by the demanding party. Copies of the demand and attachments shall be sent to University's Responsible Administrator as the representative of the responding party and the University's Office of General Counsel as attorney for the responding party, at the addresses set forth in the Project Directory, at the time the demand for arbitration is initiated with the AAA.

4.7.5 Except as modified by this Article 4.7, arbitration shall be initiated and conducted in accordance with the Construction Industry Arbitration Rules of the AAA then in effect. The following additional modifications shall be made to the aforesaid AAA rules:

.1 Civil discovery shall be permitted for the production of documents and taking of depositions. Other discovery may be permitted at the discretion of the arbitrator. All disputes regarding discovery shall be decided by the arbitrator.

.2 University's Representative and/or University's consultants, shall if required by agreement with University, upon demand by University join in and be bound by the Arbitration. University's Representative and University's consultants will have the same rights in any arbitration proceeding as are afforded by the AAA rules to Prime Trade Contractor and University.

.3 Prime Trade Contractor's sureties shall be bound by any arbitration award and may join in any arbitration proceeding.

.4 Except as provided in Articles 4.7.5.2. and 4.7.5.3 above, no Subcontractor or other person shall have a right or obligation to join in or be a party to any arbitration proceeding provided for in this Article 4 either directly, by joinder, by consolidation or actions, by counterclaim or cross claim, or otherwise without the express written consent of University, Prime Trade Contractor, and the joining party.

.5 If more than one demand for arbitration is made by a party with respect to Claims referred to University's Representative, all such Claims shall be consolidated into a single arbitration unless the parties otherwise agree in writing.

.6 If total Claims are less than $50,000, AAA expedited procedures as modified by this Article 4 shall apply. If total Claims are between $50,000 and $100,000 they shall be heard by a single arbitrator who shall be an attorney. If total Claims are in excess of $100,000 and are submitted to arbitration, either by agreement or by failure to elect litigation the controversy shall be heard by a panel of three arbitrators, one of which shall be an attorney.

.7 No arbitrator shall be appointed and no discovery may be commended prior to the date of Final Completion unless University and Prime Trade Contractor otherwise agree.

.8 The exclusive forum for determining arbitrability shall be the Superior Court of the State of California. The AAA shall not submit to any arbitrator any matter concerning the arbitrability of the dispute if the arbitrability is contested.

.9 If the expedited procedures of the AAA are applicable, the AAA shall submit simultaneously to each party an identical list of 7 proposed arbitrators drawn from the National Panel of Commercial Arbitrators, and each party may strike 3 names from the list on a peremptory basis and return the list to the AAA within 10 days from the date of receipt.

.10 Except as provided herein, the arbitration shall be conducted and enforced under California law, including the California Arbitration Act (California Code of Civil Procedure section 1280 and following). The Federal Arbitration Act shall not apply to the arbitration.

4.7.6 Unless University and Prime Trade Contractor otherwise agree in writing, the arbitration decision shall be binding upon the parties, made under and in accordance with the laws of the State of California, supported by substantial evidence, and in writing. If the total of all Claims or cross Claims submitted to arbitration is in excess of $50,000, the award shall contain the basis for the decision, findings of fact, and conclusions of law. Any arbitration

award shall be subject to confirmation, vacation, or correction under the procedures and on the grounds specified in the California Code of Civil Procedure including without limitation Section 1296. The expenses and fees of the arbitrators and the administrative fees of the AAA shall be divided among the parties equally. Each party shall pay its own counsel fees, witness fees, and other expenses incurred for its own benefit.

4.7.7 University may, but is not required, to assert as a counterclaim any matter arising out of the claims asserted by Prime Trade Contractor in the arbitration. University's failure to assert any such counterclaim in an arbitration shall be without prejudice to the University's right to assert the counterclaim in litigation or other proceeding.

4.7.8 Any litigation shall be filed in the Superior Court of the State of California for the County in which the contract was to be performed.

4.8 WAIVER

4.8.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 4 of the General Conditions in connection with any Claim shall not constitute a waiver of, and shall not preclude the University or University's Representative from enforcing such requirements in connection with any other Claims.

4.8.2 The Prime Trade Contractor agrees and understands that no oral approval, either express or implied, of any Claim shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 5

SUBCONTRACTORS

5.1 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

5.1.1 Unless otherwise stated in the Contract Documents, Prime Trade Contractor shall submit in writing, prior to entering into subcontract agreements, the names and addresses of all Subcontractors proposed for the Work that were not previously listed in Prime Trade Contractor's Bid.

5.1.2 Any Subcontractor may be disqualified if University or University's Representative determines that such Subcontractor fails to meet the requirements of the Contract Documents or for any other reason.

5.1.3 In accordance with the Subletting and Subcontracting Fair Practices Act, nothing herein shall be deemed to entitle Prime Trade Contractor, without the approval of University, to substitute other subcontractors for those named in Prime Trade Contractor's List of Subcontractors and List of Changes in Subcontractors Due to Alternates contained in the completed Bid Form; and, except with such approval, no such substitution shall be made.

5.1.4 Except as hereinafter provided, any increase in the cost of the Work resulting from the replacement or substitution of a Subcontractor, as required by University or University's Representative pursuant to Article 5.1.1 above shall be borne solely by Prime Trade Contractor and Prime Trade Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time on account of such replacement or substitution.

5.2 SUBCONTRACTUAL RELATIONS

5.2.1 Any part of the Work performed for Prime Trade Contractor by a first-tier Subcontractor shall be pursuant to a written subcontract. Each such subcontract shall require the Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to Prime Trade Contractor by the terms of the Contract Documents, to assume toward Prime Trade Contractor all the obligations and responsibilities which Prime Trade Contractor assumes towards University by the Contract Documents, and to perform such portion of the Work in accordance with the Contract Documents. Each such subcontract shall preserve and protect the rights of University under the

Contract Documents, with respect to the Work to be performed by Subcontractor, so that subcontracting thereof will not prejudice such rights. Prime Trade Contractor shall cause each such subcontract to expressly include the following requirements:

.1 Subcontractor waives all rights that Subcontractor may have against University for damages caused by fire or other perils covered by builder's risk property insurance carried by Prime Trade Contractor or University, except for such rights Subcontractor may have to the proceeds of such insurance held by University under Article 11 of the General Conditions.

.2 University and entities and agencies designated by University will have access to and the right to audit and the right to copy at University's cost all of Subcontractor's books, records, contracts, correspondence, instructions, drawings, receipts, vouchers, purchase orders, and memoranda relating to the Work. Subcontractor shall preserve all such records and other items for a period of at least 3 years after Final Completion.

.3 Subcontractor recognizes the rights of University under Article 5.3, Contingent Assignment of Subcontracts, below and agrees, upon notice from University that University has elected to accept said assignment and to retain Subcontractor pursuant to the terms of the subcontract, to complete the unperformed obligations under the subcontract and, if requested by University, to execute a written agreement confirming that Subcontractor is bound to University under the terms of the subcontract.

5.2.2 Upon the request of University, Prime Trade Contractor shall promptly furnish to University a true, complete, and executed copy of any subcontract.

5.2.3 Nothing contained in the Contract Documents shall create any contractual relationship between any Subcontractor and University, except when, and only to the extent that, University elects to accept the assignment of the subcontract with such Subcontractor pursuant to Article 5.3 below.

5.3 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

5.3.1 Prime Trade Contractor hereby assigns to University all its interest in first-tier subcontracts now or hereafter entered into by Prime Trade Contractor for performance of any part of the Work. The assignment will be effective upon acceptance by University in writing and only as to those subcontracts which University designates in writing. University may accept said assignment at any time during the course of the Work and prior to Final Completion in the event of a suspension or termination of Prime Trade Contractor's rights under the Contract Documents. Such assignment is part of the consideration to University for entering into the Contract with Prime Trade Contractor and may not be withdrawn prior to Final Completion.

ARTICLE 6

CONSTRUCTION BY UNIVERSITY OR BY SEPARATE CONTRACTORS

6.1 UNIVERSITY'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

6.1.1 University reserves the right to award separate contracts for, or to perform with its own forces, construction or operations related to the Work or other construction or operations at or affecting the Project site, including portions of the Work which have been deleted by Change Order. Prime Trade Contractor shall cooperate with University's forces and Separate Contractors.

6.1.2 University will provide coordination of the activities of University's forces and of each Separate Contractor with the Work of Prime Trade Contractor. Prime Trade Contractor shall participate with University and Separate Contractors in joint review of construction schedules and Project requirements when directed to do so.

6.1.3 The Project, of which this Contract is a part, will include other contracts for work to be performed and work to be performed by the University on the same site. By entering into this Contract, Prime Trade Contractor acknowledges that University has the right to enter into such other contracts and to perform work, and that the work of said contracts and University may (i) be in close proximity to and/or performed contemporaneously with the work of this Contract, and (ii) result in delays in or disruptions to Prime Trade Contractor's Work. Prime Trade Contractor further agrees as follows:

.1 The University shall afford Prime Trade Contractor, Separate Contractors or University forces reasonable opportunity for the introduction and storage of their materials and the execution of their work. Prime Trade Contractor shall properly connect and coordinate its construction and operations with the construction and operations of Separate Contractors and University forces, as required by the Contract Documents.

.2 Prime Trade Contractor shall cooperate with Separate Contractors and University on the project site and will do nothing to delay, hinder, disrupt, or interfere with the work of Separate Contractors, or University. Prime Trade Contractor shall coordinate its work with the work of any Separate Contractor and agrees to attend any coordination meetings scheduled for this purpose by the University Representative. Any dispute between the Prime Trade Contractor and any Separate Contractor over how the work of the various trades should be coordinated, shall be promptly submitted by Prime Trade Contractor to the University Representative. Prime Trade Contractor agrees to cooperate with the development of, and to be bound by, any reasonable coordination plan directed by University Representative to address the dispute, even if Prime Trade Contractor does not agree with the coordination plan so developed. Prime Trade Contractor agrees that if its work is delayed, hindered, disrupted or interfered with by a Separate Contractor to the extent such delays, hindrances, disruptions, and interferences result in Prime Trade Contractor working beyond the Contract Time, through no fault of the Prime Trade Contractor, the Prime Trade Contract shall be subject to a time extension, but no compensation from the University, provided the Prime Trade Contractor complies with the requirements of the Prime Trade Contract for seeking a time extension, including without limitation, the requirements set forth in Articles 4, 7 and 8 of the General Conditions.

.3 Prime Trade Contractor agrees that its sole remedy for damage or loss, including delay damages, suffered as a result of actions by a Separate Contractor, other than that specified in Article 6.1.3.2 above, shall be against such Separate Contractor, their officers, agents, employees, consultants, subcontractors and, if available, surety bonds. Prime Contractor further agrees to indemnify University, University Representative, their officers, agents, employees, consultants, or subcontractors for any damage or loss by a Separate Contractor allegedly caused by with the work of the Prime Contractor or Separate Contractor except as provided in Article 6.1.3.2 above.

6.2 MUTUAL RESPONSIBILITY

6.2.1 Prime Trade Contractor shall afford University and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities. Prime Trade Contractor shall connect, schedule, and coordinate its construction and operations with the construction and operations of University and Separate Contractors as required by the Contract Documents.

6.2.2 If a portion of the Work is dependent upon the proper execution or results of other construction or operations by University or Separate Contractors, Prime Trade Contractor shall inspect such other construction or operations before proceeding with that portion of the Work. Prime Trade Contractor shall promptly report to University's Representative apparent discrepancies or defects which render the other construction or operations unsuitable to receive the Work. Unless otherwise directed by University's Representative, Prime Trade Contractor shall not proceed with the portion of the Work affected until apparent discrepancies or defects have been corrected. Failure of Prime Trade Contractor to so report within a reasonable time after discovering such discrepancies or defects shall constitute an acknowledgment that the other construction or operations by University or Separate Contractors is suitable to receive the Work, except as to defects not then reasonably discoverable.

6.3 UNIVERSITY'S RIGHT TO CLEAN UP

6.3.1 If a dispute arises between Prime Trade Contractor and Separate Contractors as to the responsibility under their respective contracts for maintaining the Project site and surrounding areas free from waste materials and rubbish, University may clean up and allocate the cost between those firms it deems to be responsible.

ARTICLE 7

CHANGES IN THE WORK

7.1 CHANGES

7.1.1 University may, from time to time, order or authorize additions, deletions, and other changes in the Work by Change Order or Field Order without invalidating the Contract and without notice to sureties. Absence of such notice shall not relieve such sureties of any of their obligations to University.

7.1.2 Prime Trade Contractor may request a Change Order under the procedures specified in Article 4.2 of the General Conditions.

7.1.3 A Field Order may be issued by University, does not require the agreement of Prime Trade Contractor, and shall be valid with or without the signature of Prime Trade Contractor.

7.1.4 Prime Trade Contractor shall proceed promptly with any changes in the Work, unless otherwise provided in the relevant Change Order or Field Order.

7.2 DEFINITIONS

7.2.1 A Change Order is a Contract Document (as shown in the Exhibits) which has been signed by both University and Prime Trade Contractor, and states their agreement upon all of the following:

.1 A change in the Work, if any.

.2 The amount of an adjustment of the Contract Sum, if any.

.3 The amount of an adjustment of the Contract Time, if any.

.4 A modification to any other Contract term or condition.

7.2.2 A Unilateral Change Order may be issued by University without Prime Trade Contractor's signature, where the University determines that a change in the Work requires an adjustment of the Contract Sum or Contract Time, even though no agreement has been reached between University and Prime Trade Contractor with regard to such change in the Work.

7.2.3 A Field Order (as shown in the Exhibits) is a Contract Document issued by the University that orders the Prime Trade Contractor to perform Work. A Field Order may, but need not, constitute a change in the Work and may, but need not, entitle Prime Trade Contractor to an adjustment of the Contract Sum or Contract Time.

7.3 CHANGE ORDER PROCEDURES

7.3.1 Prime Trade Contractor shall provide a Change Order Request and Cost Proposal pursuant to Article 4.2 and this Article 7.3 of the General Conditions. Adjustments of the Contract Sum resulting from Extra Work and Deductive Work shall be determined using one of the methods described in this Article 7.3. Adjustments of the Contract Time shall be subject to the provisions in Article 8 of the General Conditions. Prime Trade Contractor’s obligation to provide Cost Proposals shall be subject to the following:

.1 The obligation of Prime Trade Contractor to provide Cost Proposals is not Extra Work, and shall not entitle the Prime Trade Contractor to an adjustment of the Contract Sum or Contract Time.

.2 The failure of Prime Trade Contractor to timely provide a Cost Proposal pursuant to Article 4.2 and this Article 7.3.1 is a material breach of the Contract. Prime Trade Contractor shall be responsible for any delay in implementing a change for which Prime Trade Contractor failed to timely provide a Cost Proposal consistent with the requirements of Article 4.2 and this Article 7.3.1.

7.3.2 The term "Cost of Extra Work" as used in this Article 7.3 shall mean actual costs incurred or to be incurred by Prime Trade Contractor and each Subcontractor regardless of tier involved, to the extent not otherwise disallowed under Article 7.3.3, and shall be limited to the following (to the extent the Prime Trade Contractor demonstrates that the costs are both reasonable were actually incurred, if such costs have been incurred):

.1 Straight-time wages or salaries for employees employed at the Project site, or at fabrication sites off the Project site, in the direct performance of the Extra Work.

.2 Fringe Benefits and Payroll Taxes for employees employed at the Project site, or at fabrication sites off the Project site, in the direct performance of the Extra Work.

.3 Overtime wages or salaries, specifically authorized in writing by University's Representative, for employees employed at the Project site, or at fabrication sites off the Project site, in the direct performance of the Extra Work.

.4 Fringe Benefits and Payroll Taxes for overtime Work specifically authorized in writing by University's Representative, for employees employed at the Project site, or at fabrication sites off the Project site, in the direct performance of the Extra Work.

.5 Costs of materials and consumable items which are furnished and incorporated into the Extra Work, as approved by University's Representative. Such costs shall be charged at the lowest price available to the Prime Trade Contractor but in no event shall such costs exceed competitive costs obtainable from other subcontractors, suppliers, manufacturers, and distributors in the area of the Project site. All discounts, rebates, and refunds and all returns from sale of surplus materials and consumable items shall accrue to University and Prime Trade Contractor shall make provisions so that they may be obtained.

.6 Sales taxes on the costs of materials and consumable items which are incorporated into and used in the performance of the Extra Work pursuant to Article 7.3.2.5 above.

.7 Rental charges for necessary machinery and equipment, whether owned or hired, as authorized in writing by University's Representative, exclusive of hand tools, used directly in the performance of the Extra Work. Such rental charges shall not exceed the current Equipment Rental Rates published by the California Department of Transportation for the area in which the work is performed. Such rental rates are found at *http://www.dot.ca.gov/hq/construc/equipmnt.html* . Prime Trade Contractor shall attach a copy of said schedule to the Cost Proposal. The charges for any machinery and equipment shall cease when the use thereof is no longer necessary for the Extra Work.

.8 Additional costs of royalties and permits due to the performance of the Extra Work.

.9 The cost for Insurance and Bonds shall not exceed 2% of items .1 through .8 above.

University and Prime Trade Contractor may agree upon rates to be charged for any of the items listed in this Article 7.3.2. Such agreed upon rates shall be subject to audit pursuant to Article 15.7 of the General Conditions. Prime Trade Contractor shall promptly refund to University any amounts (including associated mark-ups) in excess of the actual costs of such items.

7.3.3 Cost of Extra Work shall not include any of the following:

.1 Supervision

.2 Superintendent(s)

.3 Assistant Superintendent(s)

.4 Project Engineer(s)

.5 Project Manager(s)

.6 Scheduler(s)

.7 Estimator(s)

.8 Drafting or Detailing

.9 Small tools (Replacement value does not exceed $300)

.10 Office expenses including staff, materials and supplies

.11 On-site or off-site trailer and storage rental and expenses

.12 Site fencing

.13 Utilities including gas, electric, sewer, water, telephone, facsimile, copier equipment

.14 Data processing personnel and equipment

.15 Federal, state, or local business income and franchise taxes

.16 Overhead and Profit

.17 Costs and expenses of any kind or item not specifically and expressly included in Article 7.3.2 above

7.3.4 The term “Prime Trade Contractor Fee” shall mean the full amount of compensation, both direct and indirect (including without limitation all overhead and profit), to be paid to Prime Trade Contractor for its own Work and the Work of all Subcontractors, for all costs and expenses not included in the Cost of Extra Work, whether or not such costs and expenses are specifically referred to in Article 7.3.3 above. The Prime Trade Contractor Fee shall not be compounded. The Prime Trade Contractor Fee shall be computed as follows:

.1 Fifteen percent (15%) of the cost of that portion of the Extra Work to be performed by the prime Prime Trade Contractor with its own forces.

.2 Fifteen percent (15%) of the cost of that portion of the Work to be performed by a Subcontractor with its own forces, plus 5% for the prime Prime Trade Contractor. Total combined Prime Trade Contractor and Subcontractor fee shall not exceed 20%.

.3 Fifteen percent (15%) of the cost of that portion of the Work to be performed by a sub-subcontractor with its own forces, or any lower tier of Subcontractor, plus 5% for the Subcontractor, plus 5% for the prime Prime Trade Contractor. Total combined Prime Trade Contractor, Subcontractor and all sub-subcontractor fee shall not exceed 25%.

7.3.5 Compensation for Extra Work shall be computed on the basis of one or more of the following:

.1 Where the Work involved is covered by Unit Prices contained in the Contract Documents, by application of the Unit prices stated in the Contract Documents to the quantities of the items involved.

.2 Where Unit Prices are not applicable, a mutually agreed upon lump sum supported by a Cost Proposal pursuant to 7.3.1.

.3 Where Prime Trade Contractor and University cannot agree upon a lump sum, by Cost of Extra Work plus Prime Trade Contractor Fee applicable to such Extra Work.

7.3.6 As a condition to Prime Trade Contractor's right to an adjustment of the Contract Sum, pursuant to Article 7.3.5.3 above, Prime Trade Contractor must keep daily detailed and accurate records itemizing each element of

cost and shall provide substantiating records and documentation, including time cards and invoices. Such records and documentation shall be submitted to and approved by University's Representative on a daily basis.

7.3.7 For Work to be deleted by Change Order, the reduction of the Contract Sum shall be computed on the basis of one or more of the following:

.1 Unit Prices stated in the Contract Documents.

.2 Where Unit Prices are not applicable, a lump sum agreed upon by University and Prime Trade Contractor, based upon the actual costs which would have been incurred in performing the deleted portions of the Work as calculated in accordance with Articles 7.3.2 and 7.3.3 above, supported by a Cost Proposal pursuant to Article 7.3.1 above.

7.3.8 If any one Change involves both Extra Work and Deleted Work in the same portion of the Work, a Prime Trade Contractor fee will not be allowed if the deductive cost exceeds the additive cost. If the additive cost exceeds the deductive cost, a Prime Trade Contractor Fee will be allowed only on the difference between the two amounts.

7.3.9 The Contract Sum will be adjusted for a delay if, and only if, Prime Trade Contractor demonstrates that all of the following five conditions are met:

.1 Condition Number One: The delay results in an extension of the Contract Time pursuant to Article 8.4.1 of the General Conditions.

.2 Condition Number Two: The delay is caused solely by one or more of the following:

.1 An error or omission in the Contract Documents; or

.2 The University's decision to change the scope of the Work, where such decision is not the result of any default or misconduct of the Prime Trade Contractor; or

.3 The University's decision to suspend the Work, where such decision is not the result of any default or misconduct of the Prime Trade Contractor; or

.4 The failure of the University or the University's Representative to timely perform any contract obligation where the failure to so perform is not the result of any default or misconduct of the Prime Trade Contractor; or

.5 A materially differing site condition pursuant to Article 3.17 of the General Conditions.

.3 Condition Number Three: The delay is not concurrent with a delay that is:

.1 Critical under Article 8.4.1.2 of the General Conditions; and

.2 Caused by an event not listed in Article 7.3.9.2 above.

.4 Condition Number Four: The delay is not caused, in whole or in part, by an event not listed in Article 7.3.9.2 above.

.5 Condition Number Five: The delay is not caused, in whole or in part, by the default or misconduct of a Separate Contractor.

7.3.10 For each day of delay that meets all five conditions prescribed in above 7.3.9 the Contract Sum will be adjusted by the daily rate included in the Agreement and specifically identified as the rate to be paid to Prime Trade Contractor for Compensable Delays. Pursuant to Article 9.7.4 of the General Conditions, said daily rate shall not apply to delays occurring after Substantial Completion.

7.3.11 Except as provided in Articles 7 and 8 of the General Conditions, Prime Trade Contractor shall have no claim for damage or compensation for any delay, interruption, hindrance, or disruption.

7.3.12 If for any reason one or more of the conditions prescribed in Article 7.3.9 above is held legally unenforceable, the remaining conditions must be met as a condition to obtaining an adjustment of the Contract Time under Article 7.3.10 above.

7.4 FIELD ORDERS

7.4.1 Field Orders issued by the University Representative shall be subject to the following:

.1 A Field Order may state that it does or does not constitute a change in the Work.

.2 If the Field Order states that it does not constitute a change in the Work and the Prime Trade Contractor asserts that the Field Order constitutes a change in the Work, in order to obtain an adjustment of the Contract Sum or Contract Time for the Work encompassed by the Field Order, Prime Trade Contractor must follow all procedures set forth in Article 4 of the General Conditions, starting with the requirement of submitting a timely Change Order Request within 7 days of Prime Trade Contractor's receipt of the Field Order; failure to strictly follow those procedures is a bar to any Claim for an adjustment of the Contract Sum or Contract Time arising from performance of the Work described in the Field Order.

.3 If the Field Order states that it does constitute a change in the Work, the Work described in the Field Order shall be considered Extra Work and the Prime Trade Contractor shall be entitled to an adjustment of the Contract Sum and Contract Time, calculated under and subject to Prime Trade Contractor's compliance with the procedures for verifying and substantiating costs and delays in Articles 7 and 8 of the General Conditions.

.4 In addition, if the Field Order states that it does constitute a change in the Work, the Field Order may or may not contain University's estimate of adjustment of Contract Sum and/or Contract Time. If the Field Order contains an estimate of adjustment of Contract Sum or Contract Time, the Field Order is subject to the following:

.1 The Prime Trade Contractor shall not exceed the University's estimate of adjustment to Contract Sum or Contract Time without written authorization by University's Representative.

.2 If the Prime Trade Contractor asserts that the change in the Work encompassed by the Field Order may entitle Prime Trade Contractor to an adjustment of Contract Sum or Contract Time in excess of the University's estimate, in order not to be bound by University's estimate Prime Trade Contractor must follow all procedures set forth in Article 4 of the General Conditions, starting with the requirement of submitting a timely Change Order Request within 7 days of Prime Trade Contractor's receipt of the Field Order; failure to strictly follow those procedures is a bar to any Claim for an adjustment of the Contract Sum or Contract Time, in excess of the University's estimate, arising from performance of the Work described in the Field Order.

7.4.2 Upon receipt of a Field Order, Prime Trade Contractor shall promptly proceed to perform the Work as ordered in the Field Order notwithstanding any disagreement by the Prime Trade Contractor concerning whether the Work is extra.

7.5 VARIATION IN QUANTITY OF UNIT PRICE WORK

7.5.1 University has the right to increase or decrease the quantity of any Unit price item for which an estimated quantity is stated in the Bid Form.

7.6 WAIVER

7.6.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 7, including without limitation the requirements in Articles 7.3.6, 7.3.8, 7.3.9, 7.3.10, 7.3.11, or 7.3.12 above in connection with any adjustment of the Contract Sum, will not constitute a waiver of, and will not preclude the

University or University's Representative from enforcing, such requirements in connection with any other adjustments of the Contract Sum.

7.6.2 The Prime Trade Contractor agrees and understands that no oral approval, either express or implied, of any adjustment of the Contract Sum by University or its agents shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 8

CONTRACT TIME

8.1 COMMENCEMENT OF THE WORK

8.1.1 The date of commencement of the Work shall be set forth in the Notice To Proceed. The date of commencement of the Work shall not be postponed by the failure of Prime Trade Contractor, Subcontractors, or of persons or firms for whom Prime Trade Contractor is responsible, to act.

8.2 PROGRESS AND COMPLETION

8.2.1 By signing the Agreement:

.1 Prime Trade Contractor represents to University that the Contract Time is reasonable for performing the Work and that Prime Trade Contractor is able to perform the Work within the Contract Time.

.2 Prime Trade Contractor represents to the University that the time for completion of the Project as shown in the Preliminary Master Project Schedule is reasonable.

.3 Prime Trade Contractor agrees that University is purchasing the right to have the Prime Trade Contractor fully mobilized on the site from the earliest date for commencement of the Work shown on the Preliminary Master Project Schedule to the date shown for full completion of the Project as shown in the bidding documents.

.4 Prime Trade Contractor agrees that the University is purchasing the right to have Prime Trade Contractor work on the Project site shared by the Prime Trade Contractor and Separate Contractors. Prime Trade Contractor recognizes that as a result of working at a shared Project site there will be a loss of productivity and disruption commensurate with a project of the type, size and complexity of the Project. Prime Trade Contractor agrees that the Contract Sum includes full compensation for such loss of productivity and disruption.

8.2.2 Prime Trade Contractor shall not, except by agreement or instruction of University in writing, commence operations on the Project site or elsewhere prior to the effective date of insurance required by Article 11 of the General Conditions to be furnished by Prime Trade Contractor. The dates of commencement and completion of the Work shall not be changed by the effective date of such insurance.

8.2.3 Prime Trade Contractor shall proceed expeditiously with adequate forces and shall achieve full completion of the Work within the Contract Time. If University's Representative determines and notifies Prime Trade Contractor that Prime Trade Contractor's progress is such that Prime Trade Contractor will not achieve full completion of the Work within the Contract Time, Prime Trade Contractor shall immediately and at no additional cost to University, take all measures necessary, including working such overtime, additional shifts, Sundays, or holidays as may be required to ensure that the entire Project is completed within the Contract Time. Upon receipt of such notice from University's representative, Prime Trade Contractor shall immediately notify University's Representative of all measures to be taken to ensure full Completion of the Work within the Contract Time. Prime Trade Contractor shall reimburse University for any extra costs or expenses (including the reasonable value of any services provided by University's employees) incurred by University as the result of such measures.

8.3 DELAY

8.3.1 Except and only to the extent provided otherwise in Articles 7 and 8 of the General Conditions, by signing the Agreement, Prime Trade Contractor agrees:

.1 To bear the risk of delays to the Work; and

.2 That Prime Trade Contractor's bid for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of delays to the Work, Prime Trade Contractor understands that, except and only to the extent provided otherwise in Articles 7 and 8, the occurrence of events that delay the Work shall not excuse Prime Trade Contractor from its obligation to achieve completion of the Work within the Contract Time, and shall not entitle the Prime Trade Contractor to an adjustment of the Contract Sum.

8.4 ADJUSTMENT OF THE CONTRACT TIME FOR DELAY

8.4.1 Subject to Article 8.4.2 below, the Contract Time will be extended for each day of delay for which Prime Trade Contractor demonstrates that all of the following seven conditions have been met; a time extension will not be granted for any day of delay for which Prime Trade Contractor fails to demonstrate compliance with the seven conditions:

.1 Condition Number One: At the time that the event causing the delay commences, the Prime Trade Contractor has complied with all Contract requirements for maintaining, submitting, and updating schedule information as required by the Contract Documents.

.2 Condition Number Two: The delay is critical. A delay is critical if and only to the extent it delays a work activity that cannot be delayed without delaying completion of the entire Project beyond the Contract Time. Under this Article 8.4.1.2, if the Master Project Schedule shows completion of the entire Project before expiration of the Contract Time, a delay is critical if and only to the extent the delay pushes completion of the entire Project to a date that is beyond the Contract Time.

.3 Condition Number Three: The delay is supported by the Master Project Schedule current at the commencement of the event giving rise to the delay. A delay is supported only to the extent the Master Project Schedule corroborates that it causes a delay to completion of the entire Project beyond the contractually specified date for full completion because of its effect on the operation referred to in Article 8.4.1.2 above. The requirement that a delay be supported will be excused if the event causing the delay commences before approval of the Prime Trade Contractor Schedule, provided that the absence of an approved Prime Trade Contractor Schedule is not due to the Prime Trade Contractor's failure to timely submit an acceptable Prime Trade Contractor Schedule.

.4 Condition Number Four: Within 7 days of the date the Prime Trade Contractor discovers or reasonably should discover an act, error, omission or unforeseen condition causing the delay, (even if the Prime Trade Contractor has not been delayed when the Prime Trade Contractor discovers or reasonably should discover the act, error, omission or unforeseen condition giving rise to the delay) the Prime Trade Contractor submits both a timely and complete Change Order Request that meets the requirements of Article 4.2 of the General Conditions.

.5 Condition Number Five: The delay is not caused by:

.1 A concealed, unforeseen or unknown condition or event except for a materially differing site condition pursuant to Article 3.17 of the General Conditions; or

.2 The financial inability, misconduct or default of the Prime Trade Contractor, a Subcontractor or supplier; or

.3 The unavailability of materials or parts.

.6 Condition Number Six: The delay is caused by:

.1 Fire; or

.2 Strikes, boycotts, or like obstructive actions by labor organizations; or

.3 Acts of God (As used herein, "Acts of God" shall include only earthquakes in excess of a magnitude of 3.5 on the Richter Scale and tidal waves); or

.4 A materially differing site condition pursuant to Article 3.17 of the General Conditions; or

.5 An error or omission in the Contract Documents; or

.6 The University's decision to change the scope of the Work, where such decision is not the result of any default or misconduct of the Prime Trade Contractor; or

.7 The University's decision to suspend the Work, where such decision is not the result of any default or misconduct of the Prime Trade Contractor; or

.8 The failure of the University or the University's representative to timely perform any Contract obligation unless such failure is due to Prime Trade Contractor's default or misconduct; or

.9 The failure of a Separate Contractor to adhere to the Master Project Schedule; or

.10 The failure of a Separate Contractor to timely perform any contract obligation due to its default or misconduct or

.11 "Rainy weather," but only for such days of rain that are in excess of the number of days specified in the Supplementary Conditions. In order for a day to be considered a day of rainy weather for the purpose of determining whether Prime Trade Contractor is entitled to an adjustment in Contract Time, both of the following conditions must be met:

.1 The day must be a day in which, as a result of rain, no critical path work is performed by Prime Trade Contractor or a Separate Contractor; and

.2 The day must be identified in the Master Project Schedule as a scheduled work day.

.7 Condition Number Seven: Prime Trade Contractor has taken all reasonable measures to avoid and minimize the delay and, notwithstanding such measures, the delay occurred.

8.4.2 If and only if a delay meets all seven conditions prescribed in Article 8.4.1 above, then a time extension will be granted for each day that completion of the entire Project is delayed beyond the Contract Time, subject to the following:

.1 When two or more delays (each of which meet all seven conditions prescribed in Article 8.4.1) occur concurrently on the same day, and each such concurrent delay by itself without consideration of the other delays would be critical, then all such concurrent delays shall be considered critical. For the purpose of determining whether and to what extent the Contract Time should be adjusted pursuant to this Article 8.4.2, such concurrent critical delays shall be treated as a single delay for each such day.

.2 Prime Trade Contractor shall be entitled to a time extension for a day of delay that meets all seven requirements of Article 8.4.1 if the delay is concurrent with a delay that does not meet all seven conditions of Article 8.4.1.

8.5 COMPENSATION FOR DELAY

8.5.1 To the maximum extent allowed by law, any adjustment of the Contract Sum as the result of delays shall be limited to the amounts specified in Article 7 of the General Conditions.

8.5.2 By signing the Agreement, the parties agree that the University is buying the right to do any or all of the following, which are reasonable and within the contemplation of the parties:

.1 To order changes in the Work, regardless of the extent and number of changes, including without limitation:

.1 Changes to correct errors or omissions, if any, in the Contract Documents.

.2 Changes resulting from the University's decision to change the scope of the Work subsequent to execution of the Contract.

.3 Changes due to unforeseen conditions.

.2 To suspend the Work or any part thereof.

.3 To delay the work, including without limitation, delays resulting from the failure of the University or the University's Representative to timely perform any Contract obligation and delays for University's convenience.

8.6 WAIVER

8.6.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 8, including without limitation the requirements in Article 8.4 above, in connection with any or all past delays shall not constitute a waiver of, and shall not preclude the University or University's Representative from enforcing, such requirements in connection with any present or future delays.

8.6.2 Prime Trade Contractor agrees and understands that no oral approval, either express or implied, of any time extension by University or its agents shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 9

PAYMENTS AND COMPLETION

9.1 COST BREAKDOWN

9.1.1 Within 10 days after receipt of the Notice of Selection as the apparent lowest responsible Bidder, and with the Agreement, Prime Trade Contractor shall submit to University's Representative a Cost Breakdown of the Contract Sum in the form contained in the Exhibits. The Cost Breakdown shall itemize as separate line items the cost of each Work Activity and all associated costs, including but not limited to warranties, as-built documents, overhead expenses, and the total allowance for profit. Insurance and bonds shall each be listed as separate line items. The total of all line items shall equal the Contract Sum. The Cost Breakdown, when approved by the University's Representative, shall become the basis for determining the cost of Work performed for Prime Trade Contractor's Applications for Payment.

9.2 PROGRESS PAYMENT

9.2.1 University agrees to pay monthly to Prime Trade Contractor, subject to Article 9.4.3 below, an amount equal to 95% of the sum of the following:

.1 Cost of the Work in permanent place as of the date of the Prime Trade Contractor’s Application for Payment

.2 Plus cost of materials not yet incorporated in the Work, subject to Article 9.3.5 below.

.3 Less amounts previously paid.

Under this Article 9.2.1, University may, but is not required, to pay Prime Trade Contractor more frequently than monthly.

9.2.2 After Substantial Completion and subject to Article 9.4.3 below, University will make any of the remaining progress payments in full.

9.3 APPLICATION FOR PAYMENT

9.3.1 On or before the 10th day of the month or such other date as is established by the Contract Documents, Prime Trade Contractor shall submit to University's Representative an itemized Application for Payment, for the cost of the Work in permanent place, as approved by University's Representative, which has been completed in accordance with the Contract Documents, less amounts previously paid.

The Application for Payment shall be prepared as follows:

.1 Use the form contained in the Exhibits.

.2 Itemize in accordance with the Cost Breakdown.

.3 Include such data substantiating Prime Trade Contractor's right to payment as University's Representative may reasonably require, such as invoices, certified payrolls, daily time and material records, and, if securities are deposited in lieu of retention pursuant to Article 9.5 below, a certification of the market value of all such securities as of a date not earlier than 5 days prior to the date of the Application for Payment.

.4 Itemize retention.

9.3.2 Applications For Payment shall not include requests for payment on account of (1) changes which have not been authorized by Change Orders or (2) amounts Prime Trade Contractor does not intend to pay a Subcontractor because of a dispute or other reason.

9.3.3 If required by University, an Application for Payment shall be accompanied by (1) a summary showing payments that will be made to Subcontractors covered by such application and conditional releases upon progress payment or final payment and (2) unconditional waivers and releases of claims and stop payment notices, in the form contained in the Exhibits, from each Subcontractor listed in the preceding Application for Payment covering sums disbursed pursuant to that preceding Application for Payment.

9.3.4 Prime Trade Contractor warrants that, upon submittal of an Application for Payment, all Work, for which Certificates For Payment have been previously issued and payment has been received from University, shall be free and clear of all claims, stop payment notices, security interests, and encumbrances in favor of Prime Trade Contractor, Subcontractors, or other persons or firms entitled to make claims by reason of having provided labor, materials, or equipment relating to the Work.

9.3.5 At the sole discretion of University, University's Representative may approve for inclusion in the Application for Payment the cost of materials not yet incorporated in the Work but already delivered and suitably stored either at the Project site or at some other appropriate location acceptable to University's Representative. In such case, Prime Trade Contractor shall furnish evidence satisfactory to University's Representative (1) of the cost of such materials and (2) that such materials are under the exclusive control of Prime Trade Contractor. Only materials to be incorporated in the Work will be considered for payment. Any payment shall not be construed as acceptance of such materials nor relieve Prime Trade Contractor from sole responsibility for the care and protection of such materials; nor relieve Prime Trade Contractor from risk of loss to such materials from any cause whatsoever; nor relieve Prime Trade Contractor from its obligation to complete the Work in accordance with the Contract; nor act as a waiver of the right of University to require fulfillment of all terms of the Contract. Nothing contained within this article 9.3.5 shall be deemed to obligate University to agree to payment for any non-incorporated materials or any part thereof, payment being in the sole and absolute discretion of University.

9.4 CERTIFICATE FOR PAYMENT

9.4.1 If Prime Trade Contractor has submitted an Application for Payment in accordance with Article 9.3 above, University's Representative shall, not later than 5 working days after the date of receipt of the Application for Payment, issue to University, with a copy to Prime Trade Contractor, a Certificate For Payment for such amount as University's Representative determines to be properly due.

9.4.2 If any such Application for Payment is determined not to be in accordance with Article 9.3 above, University will inform Prime Trade Contractor as soon as practicable, but not later than 5 working days after receipt. Thereafter, Prime Trade Contractor shall have 3 days to revise and resubmit such Application for Payment; otherwise University's Representative may issue a Certificate For Payment in the amount that University's Representative determines to be properly due without regard to such Application for Payment.

9.4.3 Approval of all or any part of an Application for Payment may be withheld, a Certificate For Payment may be withheld, and all or part of a previous Certificate For Payment may be nullified and that amount withheld from a current Certificate For Payment on account of any of the following:

.1 Defective Work not remedied.

.2 Third-party claims against Prime Trade Contractor or University arising from the acts or omissions of Prime Trade Contractor or Subcontractors.

.3 Stop payment notices.

.4 Failure of Prime Trade Contractor to make timely payments due Subcontractors for material or labor.

.5 A reasonable doubt that the Work can be completed for the balance of the Contract Sum then unpaid.

.6 Damage to University or Separate Contractor for which Prime Trade Contractor is responsible.

.7 Reasonable evidence that the Work will not be completed within the Contract Time; and that the unpaid balance of the Contract Sum would not be adequate to cover University's damages for the anticipated delay.

.8 Failure of Prime Trade Contractor to maintain and update as-built documents.

.9 Failure of Prime Trade Contractor to submit schedules or their updates as required by the Contract Documents.

.10 Failure to provide conditional or unconditional releases from an Subcontractor or supplier, if such waiver(s) have been requested by University's Representative.

.11 Performance of Work by Prime Trade Contractor without properly processed Shop Drawings.

.12 Anticipated liquidated damages commensurate with the number of days the Prime Trade Contractor fails to complete a critical activity by the date shown on the Master Project Schedule.

.13 Anticipated costs for acceleration under Article 2.6.3 of the General Conditions.

.14 Liquidated damages assessed in accordance with Article 5 of the Agreement.

.15 Failure to provide updated Reports of Subcontractor Information and Self-Certifications, as applicable.

.16 Failure to provide a Final Distribution of Contract Dollars with final Application for Payment.

.17 Any other failure of Prime Trade Contractor to perform its obligations under the Contract Documents.

9.4.4 Subject to the withholding provisions of Article 9.4.3 above, University will pay Prime Trade Contractor the amount set forth in the Certificate For Payment no later than 10 days after the issuance of the Certificate For Payment.

9.4.5 Neither University nor University's Representative will have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

9.4.6 Neither a Certificate For Payment nor a progress payment made by University will constitute acceptance of Defective Work.

9.5 DEPOSIT OF SECURITIES IN LIEU OF RETENTION AND DEPOSIT OF RETENTION INTO ESCROW

9.5.1 At the request and expense of Prime Trade Contractor, a substitution of securities may be made for any monies retained by University under Article 9.2 to ensure performance under the Contract Documents. Securities equivalent in value to the retention amount required by the Contract Documents for each Certificate For Payment shall be deposited by Prime Trade Contractor with a state or federally chartered bank in the State of California ("Escrow Agent"), which shall hold such securities pursuant to the escrow agreement referred to in Article 9.5.3 until retention is due in accordance with Article 9.8. Securities shall be valued as often as conditions of the securities market warrant, but in no case less than once per month. Prime Trade Contractor shall deposit additional securities so that the current market value of the total of all deposited securities shall be at least equal to the total required amount of retention.

9.5.2 Alternatively to Article 9.5.1 above, and at the request and expense of Prime Trade Contractor, University will deposit retention directly with Escrow Agent. Prime Trade Contractor may direct the investment of such deposited retention into interest bearing accounts or securities, and such deposits or securities shall be held by Escrow Agent upon the same terms provided for securities deposited by Prime Trade Contractor. Prime Trade Contractor and its surety shall bear the risk of failure of the Escrow Agent selected.

9.5.3 A prerequisite to the substitution of securities in lieu of retention or the deposit of retention into escrow shall be the execution by Prime Trade Contractor, University, and Escrow Agent of an Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention in the form contained in the Exhibits. The Prime Trade Contractor shall submit the Selection of Retention Options and the Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention not later than the date when 50% of the Work has been completed. The terms of such escrow agreement are incorporated into the requirements of this Article 9.5.

9.6 BENEFICIAL OCCUPANCY

9.6.1 University reserves the right, at its option and convenience, to occupy or otherwise make use of any part of the Work at any time prior to Project Substantial Completion or Final Completion upon 10 days' notice to Prime Trade Contractor. Such occupancy or use is herein referred to as "Beneficial Occupancy." Beneficial Occupancy shall be subject to the following conditions:

.1 University's Representative will make an inspection of the portion of the Project to be beneficially occupied and prepare a list of items to be completed or corrected prior to Final Completion. Prior to Beneficial Occupancy, University will issue a *Certificate of Beneficial Occupancy* on University's form.

.2 Beneficial Occupancy by University shall not be construed by Prime Trade Contractor as an acceptance by University of that portion of the Work which is to be occupied.

.3 Beneficial Occupancy by University shall not constitute a waiver of existing claims of University or Prime Trade Contractor against each other.

.4 Prime Trade Contractor shall provide, in the areas beneficially occupied and on a 24 hour and 7 day week basis as required, utility services, heating, and cooling for systems which are in operable condition at the time of Beneficial Occupancy. All responsibility for the operation and maintenance of equipment shall remain with Prime Trade Contractor while the equipment is so operated. Prime Trade Contractor shall submit to University an itemized list of each piece of equipment so operated with the date operation commences.

.5 The Guarantee to Repair Periods, as defined in Article 12.2 of the General Conditions, will commence upon the first dates of actual occupancy or use of portions of the Work actually occupied and equipment or systems fully utilized. Equipment or systems shall not be considered fully utilized until all parts of the Project served by the equipment or systems are actually occupied and used.

.6 University will pay all normal operating and maintenance costs resulting from its use of equipment in areas beneficially occupied.

.7 University will pay all utility costs which arise out of the Beneficial Occupancy.

.8 Prime Trade Contractor shall not be responsible for providing security in areas beneficially occupied.

.9 University will use its best efforts to prevent its Beneficial Occupancy from interfering with the conduct of Prime Trade Contractor's remaining Work.

.10 Prime Trade Contractor shall not be required to repair damage caused by University in its Beneficial Occupancy.

.11 Except as provided in this Article 9.6, there shall be no added cost to University due to Beneficial Occupancy.

.12 Prime Trade Contractor shall continue to maintain all insurance required by the Contract in full force and effect and University shall maintain the Builder's Risk Policy on the entire Project through Final Completion unless otherwise specified in writing on the Certificate of Occupancy.

9.7 SUBSTANTIAL COMPLETION

9.7.1 "Substantial Completion" means the stage in the progress of the Work, as determined by University's Representative, when the Work is complete and in accordance with the Contract Documents except only for completion of minor items which do not impair University's ability to occupy and fully utilize the Work for its intended purpose and a Certificate of Occupancy has been issued by the University's. Substantial Completion shall not terminate the Builder's Risk policy for the Project unless otherwise identified on the Certificate of Substantial Completion.

9.7.2 When Prime Trade Contractor gives notice to University's Representative that the Work is substantially complete, unless University's Representative determines that the Work is not sufficiently complete to warrant an inspection to determine Substantial Completion, University's Representative will inspect the Work, and prepare and give to Prime Trade Contractor a comprehensive list of items to be completed or corrected before establishing Substantial Completion. Prime Trade Contractor shall proceed promptly to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of Prime Trade Contractor to complete all Work in accordance with the Contract Documents. University's Representative will make an inspection to determine whether the Work is substantially complete. If University's Representative's inspection discloses any item, whether or not included on the list, which must be completed or corrected before Substantial Completion, Prime Trade Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item. Prime Trade Contractor shall then submit a request for another inspection by University's Representative to determine Substantial Completion. Costs for additional inspection by University's Representative shall be deducted from any monies due and payable to Prime Trade Contractor.

9.7.3 When University's Representative determines that the Work is substantially complete, University's Representative will prepare a Certificate of Substantial Completion for the Work on University's form as contained in the Exhibits, which, when signed by University, shall establish the date of Substantial Completion.

9.7.4 When University's Representative determines that all work of the Project is substantially complete, University's Representative will arrange for inspection by University's Building Official and other officials, as appropriate, for the purpose of issuing a Certificate of Occupancy. After a Certificate of Occupancy has been issued by the University, the University's Representative will prepare a Certificate of Substantial Completion for the Project on University's form as contained in the Exhibits, which, when signed by University, shall establish the date of

Project Substantial Completion and the responsibilities of University and Prime Trade Contractor for security, maintenance, utilities, insurance, and damage to the Work.

9.7.5 Unless otherwise provided in the Certificate of Substantial Completion for the Project, the Guarantee To Repair Period for the Work covered by the Certificate of Substantial Completion for the Project, shall commence on the date of Project Substantial Completion except that Project Substantial Completion shall not commence the Guarantee to Repair Period for any equipment or systems that:

.1 Are not fully operational (equipment or systems shall not be considered fully operational if they are intended to provide service to any portion of the building which the University has neither Beneficially Occupied nor accepted as Substantially Complete); or

.2 Are not accepted by the University.

The Guarantee To Repair Period for equipment or systems which become fully operational and accepted subsequent to Project Substantial Completion will begin on the date of their written acceptance by University.

9.7.6 The daily rate included in the Agreement and specifically identified as the rate to be paid to Prime Trade Contractor for Compensable Delays shall not apply to any delays occurring after Substantial Completion.

9.8 FINAL COMPLETION, FINAL PAYMENT, AND RELEASE OF RETENTION

9.8.1 Upon receipt of notice from Prime Trade Contractor that the Work is ready for final inspection, University's Representative will make such inspection. Final Completion shall be when University's Representative determines that the Work is fully completed and in accordance with the Contract Documents, including without limitation, satisfaction of all "punch list" items, and determines that a Certificate of Occupancy has been issued by the University. University will file a Notice of Completion within 15 days after Final Completion has occurred for all Prime Trade Contractors and all Project Work is complete. After receipt of the final Application For Payment, if University's Representative determines that Final Completion has occurred, University's Representative will issue the final Certificate For Payment.

9.8.2 Final payment and retention shall be released to Prime Trade Contractor, as set forth in Article 9.8.3, after:

.1 Prime Trade Contractor submits the final Application For Payment and all submittals required in accordance with Article 9.3;

.2 Prime Trade Contractor submits all guarantees and warranties procured by Prime Trade Contractor from Subcontractors, all operating manuals for equipment installed in the Project, as-built documents, and all other submittals required by the Contract Documents;

.3 Prime Trade Contractor submits the Final Distribution of Contract Dollars in the form contained in the Exhibits; and

.4 University's Representative issues the final Certificate For Payment.

At its sole discretion, after Final Completion, University may waive the requirement that Prime Trade Contractor submit a final Application For Payment before making final payment and/or release of retention to Prime Trade Contractor.

9.8.3 Final payment shall be paid not more than 10 days after University's Representative issues the final Certificate For Payment. Retention shall be released to Prime Trade Contractor 35 days after the filing of the Notice of Completion.

9.8.4 Acceptance of final payment by Prime Trade Contractor shall constitute a waiver of all claims, except claims for retention and claims previously made in writing and identified by Prime Trade Contractor as unsettled at the time of the final Application For Payment.

ARTICLE 10

PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 Prime Trade Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

10.2 SAFETY OF PERSONS AND PROPERTY

10.2.1 Prime Trade Contractor shall take adequate precautions for safety of and shall provide adequate protection to prevent damage, injury, or loss to the following:

.1 Employees involved in the Work and other persons who may be affected thereby.

.2 The Work in place and materials and equipment to be incorporated therein, whether in storage on or off the Project site, under care, custody, or control of Prime Trade Contractor or Subcontractors.

.3 Other property at the Project site and adjoining property.

10.2.2 Prime Trade Contractor shall erect and maintain, as required by existing conditions and performance of the Work, adequate safeguards for safety and protection, including providing adequate lighting and ventilation, posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities.

10.2.3 When use or storage of explosives, other hazardous materials, equipment, or unusual methods are necessary for execution of the Work, Prime Trade Contractor shall exercise the utmost care and carry on such activities only under the supervision of properly qualified personnel.

10.2.4 Prime Trade Contractor shall designate a responsible member of Prime Trade Contractor's organization at the Project site whose duty shall be the prevention of accidents. That person shall be the Superintendent, unless otherwise designated by Prime Trade Contractor in writing to University and University's Representative.

10.2.5 Prime Trade Contractor shall not load or permit any part of the Work or the Project site to be loaded so as to endanger the safety of persons or property.

10.3 EMERGENCIES

10.3.1 In an emergency affecting the safety of persons or property, Prime Trade Contractor shall act to prevent or minimize damage, injury, or loss. Prime Trade Contractor shall promptly notify University's Representative, which notice may be oral followed by written confirmation, of the occurrence of such an emergency and Prime Trade Contractor's action.

ARTICLE 11

INSURANCE AND BONDS

11.1 PRIME TRADE CONTRACTOR'S INSURANCE

11.1.1 Prime Trade Contractor shall, at its expense, purchase and maintain in full force and effect such insurance as will protect itself and University from claims, such as for bodily injury, wrongful death, and property damage, which may arise out of or result from the Work required by the Contract Documents, whether such Work is done by Prime Trade Contractor, by any Subcontractor, by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. The amounts of such insurance and any additional insurance requirements are specified in the Supplementary Conditions. See Article 3.20 of the General Conditions regarding the scope and extent of Prime Trade Contractor's liability for Repair of Damaged Work.

11.1.2 The following policies and coverages shall be furnished by Prime Trade Contractor:

.1 COMMERCIAL GENERAL LIABILITY INSURANCE subject to terms no less broad than the Insurance Services Office's (ISO) form CG 0001 (2004 or later edition), or a substitute form providing coverage at least as broad as the ISO form specified, covering all Work done by or on behalf of Prime Trade Contractor and providing insurance for bodily injury, wrongful death, personal injury, property damage, and contractual liability. There shall be no limitations or exclusions of coverage beyond those contained in the standard ISO form CG 0001 (2004 or later edition). Except with respect to bodily injury and property damage included within the products and completed operations hazards, the aggregate limit shall apply separately to Work required of Prime Trade Contractor by these Contract Documents. Contractor shall continue to maintain Products/Completed Operations liability insurance coverage for a minimum completed operations period of 10 year(s) or the applicable Statute of Repose as provided by the law of the jurisdiction where the project is located as shown in the policy(ies), whichever is less. All terms and conditions of such coverage shall be maintained during this completed operations period, including the required minimum coverage limits and the requirement to provide the University with coverage as an additional insured for completed operations as specified under this Article 11.1 and the Supplementary Conditions.

.2 BUSINESS AUTOMOBILE LIABILITY INSURANCE subject to terms no less broad than the Insurance Services Office's (ISO) form CA 0001 (1990 or later edition), or a substitute form providing coverage at least as broad as the ISO form specified, covering owned, hired, leased, and non-owned automobiles used by or on behalf of Insured, and providing liability insurance for bodily injury and property damage arising from the use or operation of such auto(s) with a minimum combined single limit of not less than $1,000,000 per accident. The minimum limits required may be satisfied by combination of primary and umbrella/excess policies. The Commercial Automobile Liability Insurance shall be provided by Contractor for all on site and off site Work.

.3 WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE as required by Federal and State of California law. Prime Trade Contractor shall also require all of its Subcontractors to maintain this insurance coverage.

11.1.3 The coverages required under this Article 11 shall not in any way limit the liability of Prime Trade Contractor.

11.1.4 Prime Trade Contractor's Certificates of Insurance, executed by a duly authorized representative of each broker of record or each insurer as evidence of the insurance required by these Contract Documents and on the form contained in the Exhibits, shall be submitted by Prime Trade Contractor to University prior to the commencement of Work by the Prime Trade Contractor. The Certificates of Insurance shall provide for no cancellation or modification of coverage without prior written notice to University, in accordance with policy provisions.

11.1.5 In the event Prime Trade Contractor does not comply with these insurance requirements, University may, at its option, provide insurance coverage to protect University; and the cost of such insurance shall be paid by Prime Trade Contractor and may be deducted from the Contract Sum.

11.1.6 Prime Trade Contractor's insurance as required by Article 11.1.2 above, shall, by endorsement to the policies, include the following:

.1 The Regents of the University of California, The University of California, University, and each of their Representatives, consultants, officers, agents, employees, and each of their Representative's consultants, regardless of whether or not identified in the Contract Documents or to the Contractor in writing, will be included as additional insureds on the Contractor's General Liability insurance for and relating to the Work to be performed by the Contractor and Subcontractors. Additional Insured provision or endorsement shall be at least as broad as the CG 20 10 07 04 in combination with the CG 20 37 07 04 (or earlier versions of CG 20 10 and CG 20 37 or Form B - CG 20 10 11 85 by itself), as published by Insurance Services Offices (ISO) and shall be included with Certificates of Insurance. The additional inssured requirement shall not apply to Worker's Compensation and Employer's Liability insurance.

Further, the amount of insurance available to the University shall be for the full amount of the loss up to the available policy limits and shall not be limited to any minimum requirements stated in the Contract Documents.

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.2 University, University's consultants, University's Representative, and University's Representative's consultants will not by reason of their inclusion as insureds incur liability to the insurance carriers for payment of premiums for such insurance.

.3 Coverage provided is primary and is not in excess of or contributing with any insurance or self-insurance maintained by University, University's consultants, University's Representative, and University's Representative's consultants. This provision, however, shall only apply as per the stipulations of Article 11.1.6.1 above.

11.1.7 The form and substance of all insurance policies required to be obtained by Prime Trade Contractor shall be subject to approval by University. All policies required by Articles 11.1.2.1, 11.1.2.2, and 11.1.2.3 above shall be issued by companies with ratings and financial classifications as specified in the Supplementary Conditions.

11.1.8 Prime Trade Contractor shall, by mutual agreement with University, furnish any additional insurance as may be required by University. Prime Trade Contractor shall provide Certificates of Insurance evidencing such additional insurance.

11.1.9 The Certificate of Insurance shall show (1) all companies affording coverage and (2) the name of the insured exactly in the manner as shown on the Bid Form. The name of the insured must be the name under which the entity is licensed by the Prime Trade Contractors State License Board.

11.1.10 If insurance company refuses to use the Certificate of Insurance form as contained in the Exhibits, it must provide a Certificate of Insurance evidencing compliance with this Article including those provisions noted under DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES section of the Certificate of Insurance Exhibit by including an endorsement to its Certificate of Insurance form covering those noted provisions exactly as they appear on the Certificate of Insurance Exhibit.

11.1.11 At the request of University, Prime Trade Contractor shall submit to University copies of the policies obtained by Prime Trade Contractor.

11.2 BUILDER'S RISK PROPERTY INSURANCE

11.2.1 University will provide its standard builder's risk property insurance, subject to the deductibles, terms and conditions, exclusions, and limitations as contained in the provisions of the policy. A copy of the University's standard builder's risk property insurance policy is available at the University's Facility office. In addition, a summary of the provisions of the policy is included as an Exhibit to the Contract. Prime Trade Contractor agrees that the University's provision of its standard builder's risk property insurance policy meets the University's obligation to provide builder's risk property insurance under the Contract and, in the event of a conflict between the

provisions of the policy and any summary or description of the provisions contained herein or otherwise, the provisions of the policy shall control and shall be conclusively presumed to fulfill the University's obligation to provide such insurance. The proceeds under such insurance policies taken out by University insuring the Work and materials will be payable to University and Prime Trade Contractor as their respective interests, from time to time, may appear. Prime Trade Contractor shall be responsible for the deductible amount in the event of a loss. In addition, nothing in this Article 11.2 shall be construed to relieve Prime Trade Contractor of full responsibility for loss of or damage to materials not incorporated in the Work, and for Prime Trade Contractor's tools and equipment used to perform the Work, whether on the Project site or elsewhere, or to relieve Prime Trade Contractor of its responsibilities referred to under this Article 11. Materials incorporated in the Work, as used in this Article 11.2, shall mean materials furnished while in transit to, stored at, or in permanent place at the Project site.

11.2.2 Insurance policies referred to under this Article 11.2 shall:

.1 Include a provision that the policies are primary and do not participate with nor are excess over any other valid collectible insurance carried by Prime Trade Contractor.

.2 Include a waiver of subrogation against Prime Trade Contractor, its agents, employees.

11.2.3 Builder's risk insurance coverage under this Article 11.2 will expire on the date of Final Completion recited in a Notice of Completion filed pursuant to Article 9.8.1. Should a Notice of Completion be filed more than 10 days after the date of Final Completion, the date of Final Completion recited in the Notice of Completion will govern.

11.3 PERFORMANCE BOND AND PAYMENT BOND

11.3.1 Prime Trade Contractor shall furnish bonds covering the faithful performance of the Contract (Performance Bond) and payment of obligations arising thereunder (Payment Bond) on the forms contained in Exhibits 3 and 2.

11.3.2 The Payment Bond and Performance Bond shall each be in the amount of the Contract Sum.

11.3.3 The Payment Bond and Performance Bond shall be in effect on the date the Contract is signed by University.

11.3.4 Prime Trade Contractor shall promptly furnish such additional security as may be required by University to protect its interests and those interests of persons or firms supplying labor or materials to the Work. Prime Trade Contractor shall furnish supplemental Payment and Performance Bonds each in the amount of the current Contract Sum at the request of the University.

11.3.5 Surety companies used by Prime Trade Contractor shall be, on the date the Contract is signed by University, an admitted surety insurer (as defined in the California Code of Civil Procedure Section 995.120).

11.3.6 The premiums for the Payment Bond and Performance Bond shall be paid by Prime Trade Contractor.

ARTICLE 12

UNCOVERING AND CORRECTION OF WORK

12.1 UNCOVERING OF WORK

12.1.1 If a portion of the Work is covered contrary to University's Representative's request or direction, or contrary to the requirements of the Contract Documents, it must, if required in writing by University's Representative, be

uncovered for University's Representative's observation and be replaced at Prime Trade Contractor's expense without adjustment of the Contract Time or the Contract Sum.

12.1.2 If a portion of the Work has been covered, which is not required by the Contract Documents to be observed or inspected prior to its being covered and which University's Representative has not specifically requested to observe prior to its being covered, University's Representative may request to see such Work and it shall be uncovered and replaced by Prime Trade Contractor. If such Work is in accordance with the Contract Documents, the costs of uncovering and replacing the Work shall be added to the Contract Sum by Change Order; and if the uncovering and replacing of the Work extends the Contract Time, an appropriate adjustment of the Contract Time shall be made by Change Order. If such Work is not in accordance with the Contract Documents, Prime Trade Contractor shall pay such costs and shall not be entitled to an adjustment of the Contract Time or the Contract Sum.

12.2 CORRECTION OF DEFECTIVE WORK AND GUARANTEE TO REPAIR PERIOD

12.2.1 The term "Guarantee to Repair Period" means a period of 1 year, unless a longer period of time is specified, commencing as follows:

.1 For any work of the Project not described as incomplete in the Certificate of Substantial Completion for the Project, on the date of Project Substantial Completion.

.2 For space beneficially occupied or for separate systems fully utilized prior to Project Substantial Completion pursuant to Article 9.6 of the General Conditions, from the first date of such Beneficial Occupancy or actual use, as established in a Certificate of Beneficial Occupancy.

.3 For all work of the Project other than .1 or .2 above, from the date of Final Completion.

12.2.2 Prime Trade Contractor shall (1) correct Defective Work that becomes apparent during the progress of the Work or during the Guarantee to Repair Period and (2) replace, repair, or restore to University's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of Defective Work or the correction of Defective Work. Prime Trade Contractor shall promptly commence such correction, replacement, repair, or restoration upon notice from University's Representative or University, but in no case later than 10 days after receipt of such notice; and Prime Trade Contractor shall diligently and continuously prosecute such correction to completion. Prime Trade Contractor shall bear all costs of such correction, replacement, repair, or restoration, and all losses resulting from such Defective Work, including additional testing, inspection, and compensation for University's Representative's services and expenses. Prime Trade Contractor shall perform corrective Work at such times that are acceptable to University and in such a manner as to avoid, to the extent practicable, disruption to University's activities.

12.2.3 If immediate correction of Defective Work is required for life safety or the protection of property and is performed by University or Separate Contractors, Prime Trade Contractor shall pay to University all reasonable costs of correcting such Defective Work. Prime Trade Contractor shall replace, repair, or restore to University's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of such Defective Work or the correction of such Defective Work.

12.2.4 Prime Trade Contractor shall remove from the Project site portions of the Work and materials which are not in accordance with the Contract Documents and which are neither corrected by Prime Trade Contractor nor accepted by University.

12.2.5 If Prime Trade Contractor fails to commence correction of Defective Work within 10 days after notice from University or University's Representative or fails to diligently prosecute such correction to completion, University may correct the Defective Work in accordance with Article 2.4; and, in addition, University may remove the Defective Work and store salvageable materials and equipment at Prime Trade Contractor's expense.

12.2.6 If Prime Trade Contractor fails to pay the costs of such removal and storage as required by Articles 12.2.4 and 12.2.5 above within 10 days after written demand, University may, without prejudice to other remedies, sell such materials at auction or at private sale, or otherwise dispose of such material. Prime Trade Contractor shall be entitled to the proceeds of such sale, if any, in excess of the costs and damages for which Prime Trade Contractor is liable to University, including compensation for University's Representative's services and expenses. If such proceeds of sale do not cover costs and damages for which Prime Trade Contractor is liable to University, the Contract Sum shall be reduced by such deficiency. If there are no remaining payments due Prime Trade Contractor or the remaining payments are insufficient to cover such deficiency, Prime Trade Contractor shall promptly pay the difference to University.

12.2.7 Prime Trade Contractor's obligations under this Article 12 are in addition to and not in limitation of its warranty under Article 3.4 of the General Conditions or any other obligation of Prime Trade Contractor under the Contract Documents. Enforcement of Prime Trade Contractor's express warranties and guarantees to repair contained in the Contract Documents shall be in addition to and not in limitation of any other rights or remedies University may have under the Contract Documents or at law or in equity for Defective Work. Nothing contained in this Article 12 shall be construed to establish a period of limitation with respect to other obligations of Prime Trade Contractor under the Contract Documents. Establishment of the Guarantee To Repair Period relates only to the specific obligation of Prime Trade Contractor to correct the Work and in no way limits either Prime Trade Contractor's liability for Defective Work or the time within which proceedings may be commenced to enforce Prime Trade Contractor's obligations under the Contract Documents.

ARTICLE 13

TERMINATION OR SUSPENSION OF THE CONTRACT

13.1 TERMINATION BY PRIME TRADE CONTRACTOR

13.1.1 Subject to Article 13.1.2 below, Prime Trade Contractor shall have the right to terminate the Contract only upon the occurrence of one of the following:

.1 Provided that University has not commenced reasonable action to remove any order of a court within the 90 day period, the Work is stopped for 90 consecutive days, through no act or fault of Prime Trade Contractor, any Subcontractor, or any employee or agent of Prime Trade Contractor or any Subcontractor, due to an issuance of an order of a court or other public authority having jurisdiction or due to an act of government, such as a declaration of a national emergency making material unavailable.

.2 University fails to perform any material obligation under the Contract Documents and fails to cure such default within 30 days or University has not commenced to cure such default within 30 days where such cure will require a reasonable period beyond 30 days and diligently prosecutes the same to completion, after receipt of notice from Prime Trade Contractor stating the nature of such default.

.3 Repeated suspensions by University, other than such suspensions as are agreed to by Prime Trade Contractor under Article 13.3 below, which constitute in the aggregate more than 20% of the Contract Time.

13.1.2 Upon the occurrence of one of the events listed in Article 13.1.1 above, Prime Trade Contractor may, upon 10 days additional notice to University and University's Representative, and provided that the condition giving rise to Prime Trade Contractor's right to terminate is continuing, terminate the Contract.

13.1.3 Upon termination by Prime Trade Contractor, University will pay to Prime Trade Contractor the sum determined by Article 13.4.4 of the General Conditions. Such payment will be the sole and exclusive remedy to which Prime Trade Contractor is entitled in the event of termination of the Contract by Prime Trade Contractor pursuant to this Article 13.1; and Prime Trade Contractor will be entitled to no other compensation or damages and expressly waives the same.

13.2.1 University will have the right to terminate the Contract for cause at any time after the occurrence of any of the following events:

.1 Prime Trade Contractor becomes insolvent or files for relief under the bankruptcy laws of the United States.

.2 Prime Trade Contractor makes a general assignment for the benefit of its creditors or fails to pay its debts as the same become due.

.3 A receiver is appointed to take charge of Prime Trade Contractor's property.

.4 The commencement or completion of any Work activity is 14 days or more behind the date set forth in the Master Project Schedule for such Work activity, and which results in an Unexcusable Delay.

.5 Prime Trade Contractor abandons the Work.

13.2.2 Upon the occurrence of any of the following events, University will have the right to terminate the Contract for cause if Prime Trade Contractor fails to promptly commence to cure such default and diligently prosecute such cure within 5 days after notice from University, or within such longer period of time as is reasonably necessary to complete such cure:

.1 Prime Trade Contractor persistently or repeatedly refuses or fails to supply skilled supervisory personnel, an adequate number of properly skilled workers, proper materials, or necessary equipment to prosecute the Work in accordance with the Contract Documents.

.2 Prime Trade Contractor fails to make prompt payment of amounts properly due Subcontractors after receiving payment from University.

.3 Prime Trade Contractor disregards Applicable Code Requirements.

.4 Prime Trade Contractor persistently or materially fails to execute the Work in accordance with the Contract Documents.

.5 Prime Trade Contractor is in default of any other material obligation under the Contract Documents.

.6 Prime Trade Contractor persistently or materially fails to comply with applicable safety requirements.

13.2.3 Upon any of the occurrences referred to in Articles 13.2.1 and 13.2.2 above, University may, at its election and by notice to Prime Trade Contractor, terminate the Contract and take possession of the Project site and all materials, supplies, equipment, tools, and construction equipment and machinery thereon owned by Prime Trade Contractor; accept the assignment of any or all of the subcontracts; and then complete the Work by any method University may deem expedient. If requested by University, Prime Trade Contractor shall remove any part or all of Prime Trade Contractor's materials, supplies, equipment, tools, and construction equipment and machinery from the Project site within 7 days of such request; and if Prime Trade Contractor fails to do so, University may remove or store, and after 90 days sell, any of the same at Prime Trade Contractor's expense.

13.2.4 If the Contract is terminated by University as provided in this Article 13.2, Prime Trade Contractor shall not be entitled to receive any further payment until the expiration of 35 days after Final Completion and acceptance of all Work by University.

13.2.5 If the unpaid balance of the Contract Sum exceeds the cost of completing the Work, including all additional costs and expenses made necessary thereby, including costs for University staff time, plus all losses sustained, including any liquidated damages provided under the Contract Documents, such excess shall be paid to Prime Trade Contractor. If such costs, expenses, losses , and liquidated damages exceed the unpaid balance of the Contract Sum, Prime Trade Contractor shall pay such excess to University.

13.2.6 No termination or action taken by University after termination shall prejudice any other rights or remedies of University provided by law or by the Contract Documents upon such termination; and University may proceed against Prime Trade Contractor to recover all Losses suffered by University.

13.3 SUSPENSION BY UNIVERSITY FOR CONVENIENCE

13.3.1 University may, at any time and from time to time, without cause, order Prime Trade Contractor, in writing, to suspend, delay, or interrupt the Work in whole or in part for such period of time, up to 90 days, as University may determine, with such period of suspension to be computed from the date of delivery of the written order. Such order shall be specifically identified as a “Suspension Order” under this Article 13.3. The Work may be stopped for such further period as the parties may agree. Upon receipt of a Suspension Order, Prime Trade Contractor shall, at University's expense, comply with its terms and take all reasonable steps to minimize costs allocable to the Work covered by the Suspension Order during the period of Work stoppage. Within 90 days after the issuance of the Suspension Order, or such extension to that period as is agreed upon by Prime Trade Contractor and University, University shall either cancel the Suspension Order or delete the Work covered by such Suspension Order by issuing a Change Order.

13.3.2 If a Suspension Order is canceled or expires, Prime Trade Contractor shall continue with the Work. A Change Order will be issued to cover any adjustments of the Contract Sum or the Contract Time necessarily caused by such suspension. Any Claim by Prime Trade Contractor for an adjustment of the Contract Sum or the Contract Time shall be made within 21 days after the end of the Work suspension. Prime Trade Contractor agrees that submission of its claim within said 21 days is an express condition precedent to its right to Arbitrate or Litigate such a claim.

13.3.3 The provisions of this Article 13.3 shall not apply if a Suspension Order is not issued by University. A Suspension Order shall not be required to stop the Work as permitted or required under any other provision of the Contract Documents.

13.4 TERMINATION BY UNIVERSITY FOR CONVENIENCE

13.4.1 University may, at its option, terminate this Contract, in whole or from time to time in part, at any time by giving notice to Prime Trade Contractor. Upon such termination, Prime Trade Contractor agrees to waive any claims for damages, including loss of anticipated profits, on account thereof; and, as the sole right and remedy of Prime Trade Contractor, University shall pay Prime Trade Contractor in accordance with Article 13.4.4 below.

13.4.2 Upon receipt of notice of termination under this Article 13.4, Prime Trade Contractor shall, unless the notice directs otherwise, do the following:

.1 Immediately discontinue the Work to the extent specified in the notice.

.2 Place no further orders or subcontracts for materials, equipment, services, or facilities, except as may be necessary for completion of such portion of the Work as is not discontinued.

.3 Promptly cancel, on the most favorable terms reasonably possible, all subcontracts to the extent they relate to the performance of the discontinued portion of the Work.

.4 Thereafter do only such Work as may be necessary to preserve and protect Work already in progress and to protect materials, plants, and equipment on the Project site or in transit thereto.

13.4.3 Upon such termination, the obligations of the Contract shall continue as to portions of the Work already performed and, subject to Prime Trade Contractor's obligations under Article 13.4.2 above, as to bona fide obligations assumed by Prime Trade Contractor prior to the date of termination.

13.4.4 Upon such termination, University shall pay to Prime Trade Contractor the sum of the following:

.1 The amount of the Contract Sum allocable to the portion of the Work properly performed by Prime Trade Contractor as of the date of termination, less sums previously paid to Prime Trade Contractor.

.2 Plus an amount equal to the lesser of $50,000 or 5% of the difference between the Contract Sum and the amount of the Contract Sum allocable to the portion of the Work properly performed by Prime Trade Contractor as of the date of termination.

.3 Plus previously unpaid costs of any items delivered to the Project site which were fabricated for subsequent incorporation in the Work.

.4 Plus any proven Losses with respect to materials and equipment directly resulting from such termination.

.5 Plus reasonable demobilization costs.

.6 Plus reasonable costs of preparing a statement of the aforesaid costs, expenses, and Losses in connection with such termination.

The above payment shall be the sole and exclusive remedy to which Prime Trade Contractor is entitled in the event of termination of the Contract by University pursuant to this Article 13.4; and Prime Trade Contractor will be entitled to no other compensation or damages and expressly waives same.

ARTICLE 14

STATUTORY AND OTHER REQUIREMENTS

14.1 PATIENT HEALTH INFORMATION

14.1.1 Prime Trade Contractor acknowledges that its employees, agents, subcontractors, consultants and others acting on its behalf may come into contact with Patient Health Information ("PHI") while performing work at the Project Site. This contact is most likely rare and brief (e.g. walking through a clinic where patient files may be visible, overhearing conversations between physicians while working or touring a hospital, noticing a relative or acquaintance receiving treatment in a University facility, etc.). Prime Trade Contractor shall immediately notify University Representative of any such contact. Any and all forms of PHI should not be examined closer, copied, photographed, recorded in any manner, distributed or shared. Prime Trade Contractor will adopt procedures to ensure that its employees, agents and subcontractors refrain from such activity. If Prime Trade Contractor, its employees, agents or subcontractors do further examine, copy, photograph, record in any manner, distribute or share this information, Prime Trade Contractor will report such actions immediately to the University Representative. Prime Trade Contractor will immediately take all steps necessary to stop any such actions and will ensure that no further violations of this contractual responsibility will occur. Prime Trade Contractor will report to University Representative within five (5) days after Prime Trade Contractor gives University Representative notice of the event/action of the steps taken to prevent future occurrences.

14.2 NONDISCRIMINATION

14.2.1 For purposes of this Article 14.2, the term Subcontractor shall not include suppliers, manufacturers, or distributors.

14.2.2 Prime Trade Contractor shall comply and shall ensure that all Subcontractors comply with Section 12900 through 12996, of the State of California Government Code.

14.2.3 Prime Trade Contractor agrees as follows during the performance of the Work:

.1 Prime Trade Contractor shall provide equal treatment to, and shall not willfully discriminate against or allow harassment of any employee or applicant for employment on the basis of: race; color; religion;

sex; age; ancestry; national origin; sexual orientation; physical or mental disability; veteran's status; medical condition (as defined in Section 12926 of the State of California Government Code and including cancer-related medical conditions and or genetic characteristics); genetic information (as defined in the Genetic Information Nondiscrimination Act of 2008 and including family medical history); marital status; gender identity, pregnancy, or citizenship (within the limits imposed by law or University's policy) or service in the uniformed services (as defined by the Uniformed Services Employment and Reemployment Rights Act of 1994). Prime Trade Contractor will also take affirmative action to ensure that any such employee or applicant for employment is not discriminated against on any of the bases identified above. Such equal treatment shall apply, but not be limited to the following: employment; upgrade; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Prime Trade Contractor also agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The Prime Trade Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Prime Trade Contractor, state that qualified applicants will receive consideration for employment without regard to: race; color; religion; sex; age; ancestry; national origin; sexual orientation; physical or mental disability; veteran's status; medical condition (as defined in Section 12926 of the State of California Government Code and including cancer-related medical conditions and or genetic characteristics); genetic information (as defined in the Genetic Information Nondiscrimination Act of 2008 and including family medical history); marital status; gender identity, pregnancy, or citizenship (within the limits imposed by law or University's policy) or service in the uniformed services (as defined by the Uniformed Services Employment and Reemployment Rights Act of 1994). For purposes of this provision: (1) "Pregnancy" includes pregnancy, childbirth, and medical conditions related to pregnancy and childbirth; and (2) "Service in the uniformed services" includes membership, application for membership, performance of service, application for service, or obligation for service in the uniformed services.

.2 Prime Trade Contractor and all Subcontractors will permit access to their records of employment, employment advertisements, application forms, and other pertinent data and records by University or any appropriate agency of the State of California designated by University for the purposes of investigation to ascertain compliance with this Article 14.2. The outcome of the investigation may result in the following:

.1 A finding of willful violation of the provisions of this Contract or of the Fair Employment Practices Act may be regarded by University as (1) a basis for determining that Prime Trade Contractor is not a “responsible bidder” as to future contracts for which such Prime Trade Contractor may submit bids or (2) a basis for refusing to accept or consider the bids of Prime Trade Contractor for future contracts.

.2 University may deem a finding of willful violation of the Fair Employment Practices Act to have occurred upon receipt of written notice from the Fair Employment Practices Commission that it has (1) investigated and determined that Prime Trade Contractor has violated the Fair Employment Practices Act and (2) issued an order under the State of California Government Code Section 12970 or obtained an injunction under Government Code Section 12973.

.3 Upon receipt of such written notice from the Fair Employment Practices Commission, University may notify Prime Trade Contractor that, unless it demonstrates to the satisfaction of University within a stated period that the violation has been corrected, Prime Trade Contractor's bids on future projects will not be considered.

.4 Prime Trade Contractor agrees that, should University determine that Prime Trade Contractor has not complied with this Article 14.2, Prime Trade Contractor shall forfeit to University, as a penalty, for each day or portion thereof, for each person who was denied employment as a result of such non-compliance, the penalties provided in Article 14.3 below for violation of prevailing wage rates. Such

penalty amounts may be recovered from Prime Trade Contractor; and University may deduct any such penalty amounts from the Contract Sum.

.5 Nothing contained in this Article 14.2 shall be construed in any manner so as to prevent University from pursuing any other remedies that may be available at law.

.6 Prime Trade Contractor shall meet the following standards for compliance and provide University with satisfactory evidence of such compliance upon University's request, which shall be evaluated in each case by University:

.1 Prime Trade Contractor shall notify its Superintendent and other supervisory personnel of the nondiscrimination requirements of the Contract Documents and their responsibilities thereto.

.2 Prime Trade Contractor shall notify all sources of employee referrals (including unions, employment agencies, and the State of California Department of Employment) of the nondiscrimination requirements of the Contract Documents by sending to such sources and by posting the Notice of Equal Employment Opportunity (EEO).

.3 Prime Trade Contractor or its representative shall, through all unions with whom it may have agreements, develop agreements that (1) define responsibilities for nondiscrimination in hiring, referrals, upgrading, and training and (2) implement an affirmative nondiscrimination program, in terms of the unions' specific areas of skill and geography, such that qualified minority women, non-minority women, and minority men shall be available and given an equal opportunity for employment.

.4 Prime Trade Contractor shall notify University of opposition to the nondiscrimination requirements of the Contract Documents by individuals, firms, or organizations during the term of the Contract.

7 Prime Trade Contractor shall include the provisions of the foregoing Articles 14.2.3.1 through 14.2.3.6 in all subcontracts with Subcontractors, so that such provisions will be binding upon each such Subcontractor.

14.3 PREVAILING WAGE RATES

14.3.1 For purposes of this Article 14.3, the term Subcontractor shall not include suppliers, manufacturers, or distributors.

14.3.2 Prime Trade Contractor shall comply and shall ensure that all Subcontractors comply with prevailing wage law pursuant to the State of California Labor Code, including but not limited to Section 1720 et seq. of the State of California Labor Code. Compliance with these sections is required by this Contract. The Work under this Contract is subject to compliance monitoring and enforcement by the State of California Department of Industrial Relations.

14.3.3 The State of California Department of Industrial Relations has ascertained the general prevailing per diem wage rates in the locality in which the Work is to be performed for each craft, classification, or type of worker required to perform the Work. A copy of the general prevailing per diem wage rates will be on file at University's principal facility office and will be made available to any interested party upon request. Prime Trade Contractor shall post a copy of the general prevailing per diem wage rates as well as job site notices as prescribed by regulation at the job site. By this reference, such schedule is made part of the Contract Documents. Prime Trade Contractor shall pay not less than the prevailing wage rates, as specified in the schedule and any amendments thereto, to all workers employed by Prime Trade Contractor in the execution of the Work. Prime Trade Contractor shall cause all subcontracts to include the provision that all Subcontractors shall pay not less than the prevailing rates to all workers employed by such Subcontractors in the execution of the Work. Prime Trade Contractor shall forfeit to University, as a penalty, not more than $200 for each calendar day or portion thereof for each worker that is paid less than the prevailing rates as determined by the Director of Industrial Relations for the work or craft in which the worker is employed for any portion of the Work done by Prime Trade Contractor or any Subcontractor. The amount of this penalty shall be determined pursuant to applicable law. Such forfeiture amounts may be deducted from the

Contract Sum or sought directly from the surety under its Performance Bond if there are insufficient funds remaining in the Contract Sum. Prime Trade Contractor shall also pay to any worker who was paid less than the prevailing wage rate for the work or craft for which the worker was employed for any portion of the Work, for each day, or portion thereof, for which the worker was paid less than the specified prevailing per diem wage rate, an amount equal to the difference between the specified prevailing per diem wage rate and the amount which was paid to the worker. Review of any civil wage and penalty assessment shall be made pursuant to section 1742 of the California Labor Code.

14.4 PAYROLL RECORDS

14.4.1 For purposes of this Article 14.4, the term Subcontractor shall not include suppliers, manufacturers, or distributors.

14.4.2 Prime Trade Contractor and all Subcontractors shall keep an accurate payroll record, showing the name, address, social security number, job classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyworker, apprentice, worker, or other employee employed in connection with the Work. All payroll records shall be certified as being true and correct by Prime Trade Contractor or Subcontractors keeping such records; and the payroll records shall be available for inspection at all reasonable hours at the principal office of Prime Trade Contractor on the following basis:

.1 A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or the employee's authorized representative on request.

.2 A certified copy of all payroll records shall be made available for inspection upon request to University, the State of California Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the State of California Division of Industrial Relations.

.3 A certified copy of all payroll records shall be made available upon request by the public for inspection or copies thereof made; provided, however, that the request by the public shall be made to either University, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. The public shall not be given access to such records at the principal offices of Prime Trade Contractor or Subcontractors. Any copy of the records made available for inspection as copies and furnished upon request to the public or any public agency by University shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of Prime Trade Contractor awarded the Contract or performing the Contract shall not be marked or obliterated.

14.4.3 Prime Trade Contractor shall file a certified copy of the payroll records with the entity that requested the records within 10 days after receipt of a written request. Prime Trade Contractor shall inform University of the location of such payroll records for the Project, including the street address, city, and county; and Prime Trade Contractor shall, within 5 working days, provide notice of change of location of such records. In the event of noncompliance with the requirements of this Article 14.4 or with the State of California Labor Code Section 1776, Prime Trade Contractor shall have 10 days in which to comply following receipt of notice specifying in what respects Prime Trade Contractor must comply. Should noncompliance still be evident after the 10 day period, Prime Trade Contractor shall forfeit to University, as a penalty, $100 for each day, or portion thereof, for each worker, until strict compliance is accomplished. Such forfeiture amounts may be deducted from the Contract Sum.

14.5 APPRENTICES

14.5.1 For purposes of this Article 14.5, the term Subcontractor shall not include suppliers, manufacturers, and distributors.

14.5.2 Only apprentices, as defined in the State of California Labor Code Section 3077, who are in training under apprenticeship standards and written apprentice agreements under Chapter 4, Division 3, of the State of California Labor Code, are eligible to be employed by Prime Trade Contractor and Subcontractors as apprentices. The

employment and training of each apprentice shall be in accordance with the provisions of the apprenticeship standards and written apprentice agreements under which the apprentice is training and in accordance with prevailing wage law pursuant to the Labor Code, including but not limited to Section 1777.5. The Contractor bears responsibility for compliance with this section for all apprenticeable occupations.

14.5.3 Every apprentice shall be paid the standard wage to apprentices, under the regulations of the craft or trade at which the apprentice is employed, and shall be employed only at the Work in the craft or trade to which the apprentice is indentured.

14.5.4 When Prime Trade Contractor or Subcontractors employ workers in any apprenticeship craft or trade on the Work, Prime Trade Contractor or Subcontractors shall 1) send contract award information to the applicable joint apprenticeship committee that can supply apprentices to the site of the public work and 2) apply to the joint apprenticeship committee, which administers the apprenticeship standards of the craft or trade in the area of the Project site, for a certificate approving Prime Trade Contractor or Subcontractors under the apprenticeship standards for the employment and training of apprentices in the area of the Project site. The committee will issue a certificate fixing the number of apprentices or the ratio of apprentices to journeypersons who shall be employed in the craft or trade on the Work. The ratio will not exceed that stipulated in the apprenticeship standards under which the joint apprenticeship committee operates; but in no case shall the ratio be less than 1 hour of apprentice work for every 5 hours of journeyperson work, except as permitted by law. Prime Trade Contractor or Subcontractors shall, upon the issuance of the approval certificate in each such craft or trade, employ the number of apprentices or the ratio of apprentices to journeypersons fixed in the certificate issued by the joint apprenticeship committee or present an exemption certificate issued by the Division of Apprenticeship Standards.

14.5.5 “Apprenticeship craft or trade,” as used in this Article 14.5, shall mean a craft or trade determined as an apprenticeship occupation in accordance with rules and regulations prescribed by the Apprenticeship Council.

14.5.6 If Prime Trade Contractor or Subcontractors employ journeyworkers or apprentices in any apprenticeship craft or trade in the area of the Project site, and there exists a fund for assisting to allay the cost of the apprenticeship program in the trade or craft, to which fund or funds other Prime Trade Contractors in the area of the Project site are contributing, Prime Trade Contractor and Subcontractors shall contribute to the fund or funds in each craft or trade in which they employ journeyworkers or apprentices on the Work in the same amount or upon the same basis and in the same manner done by the other contractors. Prime Trade Contractor may include the amount of such contributions in computing its bid for the Contract; but if Prime Trade Contractor fails to do so, it shall not be entitled to any additional compensation therefor from University.

14.5.7 In the event Prime Trade Contractor willfully fails to comply with this Article 14.5, it will be considered in violation of the requirements of the Contract.

14.5.8 Nothing contained herein shall be considered or interpreted as prohibiting or preventing the hiring by Prime Trade Contractor or Subcontractors of journeyworker trainees who may receive on-the-job training to enable them to achieve journeyworker status in any craft or trade under standards other than those set forth for apprentices.

14.6 WORK DAY

14.6.1 Prime Trade Contractor shall not permit any worker to labor more than 8 hours during any 1 day or more than 40 hours during any 1 calendar week, except as permitted by law and in such cases only upon such conditions as are provided by law. Prime Trade Contractor shall forfeit to University, as a penalty, $25 for each worker employed in the execution of this Contract by Prime Trade Contractor, or any Subcontractor, for each day during which such worker is required or permitted to work more than 8 hours in any 1 day and 40 hours in any 1 calendar week in violation of the terms of this Article 14.6 or in violation of the provisions of any law of the State of California. Such forfeiture amounts may be deducted from the Contract Sum. Prime Trade Contractor and each Subcontractor shall keep, or cause to be kept, an accurate record showing the actual hours worked each day and each calendar week by each worker employed on the Project, which record shall be kept open at all reasonable hours to the

inspection of University, its officers and agents, and to the inspection of the appropriate enforcement agency of the State of California.

ARTICLE 15

MISCELLANEOUS PROVISIONS

15.1 GOVERNING LAW

15.1.1 The Contract shall be governed by the law of the State of California.

15.2 SUCCESSORS AND ASSIGNS

15.2.1 University and Prime Trade Contractor respectively bind themselves and their successors, permitted assigns, and legal representatives to the other party and to the successors, permitted assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract, in whole or in part, without prior written consent of the other party. Notwithstanding any such assignment, each of the original contracting parties shall remain legally responsible for all of its obligations under the Contract.

15.3 RIGHTS AND REMEDIES

15.3.1 All University's rights and remedies under the Contract Documents will be cumulative and in addition to and not in limitation of all other rights and remedies of University under the Contract Documents or otherwise available at law or in equity.

15.3.2 No action or failure to act by University or University's Representative will constitute a waiver of a right afforded them under the Contract, nor will such action or failure to act constitute approval of or acquiescence in a condition or breach thereunder, except as may be specifically agreed in writing. No waiver by University or University's Representative of any condition, breach or default will constitute a waiver of any other condition, breach or default; nor will any such waiver constitute a continuing waiver.

15.3.3 No provision contained in the Contract Documents shall create or give to third parties any claim or right of action against University, University's Representative, or Prime Trade Contractor.

15.4 SURVIVAL

15.4.1 The provisions of the Contract which by their nature survive termination of the Contract or Final Completion, including all warranties, indemnities, payment obligations, and University's right to audit Prime Trade Contractor's books and records, shall remain in full force and effect after Final Completion or any termination of the Contract.

15.5 COMPLETE AGREEMENT

15.5.1 The Contract Documents constitute the full and complete understanding of the parties and supersede any previous agreements or understandings, oral or written, with respect to the subject matter hereof. The Contract may be modified only by a written instrument signed by both parties or as provided in Article 7 of the General Conditions.

15.6 SEVERABILITY OF PROVISIONS

15.6.1 If any one or more of the provisions contained in the Contract Documents should be invalid, illegal, or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired thereby.

15.7 UNIVERSITY'S RIGHT TO AUDIT

15.7.1 University and entities and agencies designated by University will have access to and the right to audit and the right to copy at University's cost all of Prime Trade Contractor's books, records, contracts, correspondence, instructions, drawings, receipts, vouchers, purchase orders, and memoranda relating to the Work. Prime Trade Contractor shall preserve all such records and other items for a period of at least 3 years after Final Completion.

15.8 METHODS OF DELIVERY FOR SPECIFIED DOCUMENTS

15.8.1 The following documents must be delivered in a manner specified in Article 15.8.2:

.1 Contractor Notices of election to litigate or arbitrate;
.2 Written demand for an informal conference to meet and confer pursuant to Article 4.5;
.3 University's written statement identifying remaining disputes following informal conference pursuant to Article 4.6;
.4 Written demand for non-binding mediation pursuant to Article 4.6;
.5 Contractor claims pursuant to Article 4.3;
.6 Contractor notices of conditions pursuant to Articles 3.17, 3.18, or 3.19;
.7 University's notices of Contractor's failure to perform and/or correct defective work pursuant to Articles 4.1.6, 12.2 and 13.2.3;
.8 University's notice to stop work pursuant to Article 2.3.1:
.9 Notices of termination or suspension pursuant to Article 13.

15.8.2 Delivery methods for documents specified in Article 15.8.1:

.1 By personal delivery.
.2 Sent by facsimile copy where receipt is confirmed.
.3 Sent by Express Mail, or another method of delivery providing for overnight delivery where receipt is confirmed.
.4 Sent by registered or certified mail, postage prepaid, return receipt requested.

15.8.3 The documents identified in Article 15.8.1 shall only be effective if delivered in the manner specified in Article 15.8.2. Subject to the forgoing, such documents shall be deemed given and received upon actual receipt in the case of all except registered or certified mail; and in the case of registered or certified mail, on the date shown on the return receipt or the date delivery during normal business hours was attempted. Delivery of the specified documents shall be made at the respective street addresses set forth in the Agreement. Such street addresses may be changed by notice given in accordance with this Article 15.8.

15.9 TIME OF THE ESSENCE

15.9.1 Time limits stated in the Contract Documents are of the essence of the Contract.

15.10 MUTUAL DUTY TO MITIGATE

15.10.1 University and Contractor shall use all reasonable and economically practicable efforts to mitigate delays and damages to the Project and to one another with respect to the Project, regardless of the cause of such delay or damage.

15.11 UC FAIR WAGE

Contractor shall pay all persons providing construction services and/or any labor on site, including any University location, no less than the UC Fair Wage (defined as $13 per hour as of 10/1/15, $14 per hour as of 10/1/16, and $15 per hour as of 10/1/17) and shall comply with all applicable federal, state and local working condition requirements.

[End]

SUPPLEMENTARY CONDITIONS

1. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 3 – CONTRACTOR

Article 3.13.2 is replaced as follows:

3.13.2 Contractor shall, on a daily basis during performance of the Work, keep the Project site and surrounding area free from the accumulation of dirt, waste materials, and rubbish caused by Contractor. If cleanup is not performed on a daily basis, University may perform cleanup as necessary, and allocate the cost for such cleanup between those firms responsible. Contractor shall remove all dirt, waste material, and rubbish caused by Contractor, along with any tools, equipment, machinery, and surplus materials from the Project site and surrounding area at the completion of the Work. Cleanup of unclean jobsite conditions must be within 24 hours after such notice has been given to Contractor by University's Representative.

The following article is added to Article 3 of the General Conditions:

3.22 DAILY REPORTS

3.22.1 Contractor shall submit daily reports, on the form contained in the Exhibits, to the University's Representative not later than 2:00 p.m. each workday.

2. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 3 – CONTRACTOR

Article 3.8.4 is replaced as follows:

3.8. SUPERINTENTENT

3.8.4 The Superintendent may perform the Work of any trade, pickup materials, or perform any Work not directly related to the supervision and coordination of the Work at the Project site when Work is in progress.

3. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 7 - CHANGES IN THE WORK

The following article is added to Article 7 of the General Conditions:

7.7. LETTER OF INSTRUCTION

7.7.1 The University's Representative may issue Letter of Instruction (as shown in Exhibit 26) which make interpretations or clarifications of the Contract Documents that do not change the scope of Work or involve an adjustment of the Contract Sum or the Contract Time and that are consistent with the intent of the Contract Documents. Letter of Instruction shall be binding upon Contractor. Contractor shall promptly carry out the requirements of such Letter of Instruction.

4. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 8 - CONTRACT TIME

8.4.1.6.11 "Rainy weather", but only for such days of rain that are in excess of the number of days specified:

October – 1 day
November – 2 days
December -3 days
January – 5 days
February - 6 days
March – 5 days
April – 3 days
May – September – 0 days

In order for a day to be considered a "day of rainy weather" for the purpose of determining whether Contractor is entitled to a time extension, all of the following conditions must be met:

.3 the Contractor must have employed all reasonable rain mitigation measures to enable the work to continue on the day; and

.4 all other conditions of Article 8 must be met.

When the total number of rainy weather days within a month does not exceed the number of days specified; the remaining days shall carry forward to the next month of the project. Remaining rain days for the calendar year shall carry forward to the next calendar year through final completion of the project.

4. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 9 – PAYMENTS AND COMPLETION

Article 9.4.1 is replaced as follows:

9.4 CERTIFICATE FOR PAYMENT

9.4.1 If Contractor has submitted an Application For Payment in accordance with Article 9.3, University's Representative shall, not later than 10 working days after the date of receipt of the Application For Payment, issue to University, with a copy to Contractor, a Certificate For Payment for such amount as University's Representative determines to be properly due.

MODIFICATION OF GENERAL CONDITIONS, ARTICLE 11 - INSURANCE AND BONDS

Insurance required by Paragraphs 11.1.2.1 and 11.1.2.2 shall be (i) issued by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's) or (ii) guaranteed, under terms consented to by the University (such consent to not be unreasonably withheld), by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's). Such insurance shall be written for not less than the following:

		Minimum Requirement
11.1.2.1	Commercial Form General Liability Insurance-Limits of Liability	
	Each Occurrence-Combined Single Limit for Bodily Injury and Property	$1,000,000
	Products-Completed Operations Aggregate	$2,000,000
	Personal and Advertising Injury	$1,000,000
	General Aggregate	$2,000,000

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AGREEMENT

THIS AGREEMENT is made as of the ____ day of _____ between the University, THE REGENTS OF THE UNIVERSITY OF CALIFORNIA,

whose facility is:	University of California Merced Campus
whose address for notices is:	Physical Operations, Planning & Development University of California 5200 N. Lake Rd. Merced, California 95343
and Contractor: whose address for notices is:	
for the Project:	2020 BSP AND HAC RELOCATION UNIVERSITY OF CALIFORNIA, MERCED MERCED, CALIFORNIA
University's Responsible Administrator:	Mike McLeod Vice Chancellor/Chief Operating Officer University of California Merced
University's Representative is:	Fran Telechea Design & Construction & Management University of California Merced
whose address for notices is:	Physical Operations, Planning & Development University of California 5200 N. Lake Rd. Merced, California 95343
Contract Documents for the Work Prepared by:	University of California Merced

University and Contractor hereby agree as follows:

ARTICLE 1 WORK - Contractor shall provide all work required by the Contract Documents (the "Work"). Contractor agrees to do additional Work arising from changes ordered by the University pursuant to Article 7 of the General Conditions. Contractor shall (1) pay all sales, consumer and other taxes and (2) obtain and pay for any governmental licenses and permits necessary for the work, other than building and utility permits.

ARTICLE 2 CONTRACT DOCUMENTS - "Contract Documents" means the Advertisement for Bids, Instructions To Bidders, Supplementary Instructions to Bidders, Bid Form, this Agreement, General Conditions, Supplementary Conditions, Exhibits, Specifications, List of Drawings, Drawings, Addenda, Notice to Proceed, Change Orders, Notice of Completion, and all other documents identified in this Agreement of which together form the Contract between University and Contractor for the Work (the "Contract"). The Contract constitutes the complete agreement between University and Contractor and supersedes any previous agreements or understandings.

ARTICLE 3 CONTRACT SUM - Subject to the provisions of the Contract Documents University shall pay to Contractor, for the performance of the Work, **$**, the "Contract Sum".

The Contract Sum includes the following Allowances:

The Contract Sum includes the following Alternates accepted by University

University reserves the right to accept the following Alternates within 60 days after the date of this Agreement:

Unit prices, if any, are as follows:

Alternate No. 1

Alternate No. 2

The Contract Sum will be increased by an amount equal to the unit price multiplied by the actual number of units of each unit price item incorporated in the Work.

ARTICLE 4 CONTRACT TIME - Contractor shall commence the Work on the date specified in the Notice to Proceed and fully complete the work within Completion August 16, 2019 the "Contract Time".

By signing this agreement, Contractor represents to University that the Contract Time is reasonable for completion of the work and that Contractor will complete the Work within the Contract Time. Time limits stated in the Contract Documents are of the essence of the Contract.

ARTICLE 5 LIQUIDATED DAMAGES - If Contractor fails to meet Substantial Completion milestones as described in the summary of work 01 11 10 part 1, Contractor shall be assessed liquidated damages in the amount of $1,100.00 per day for each calendar day following the specified date of Substantial Completion for that phase where the Work remains incomplete (Saturdays, Sundays, and holidays included).

ARTICLE 6 COMPENSABLE DELAY - If Contractor is entitled to an increase in the Contract Sum as a result of a Compensable Delay, determined pursuant to Articles 7 and 8 of the General Conditions, the Contract Sum will be increased by the sum of **$** per day for each day for which such compensation is payable.

ARTICLE 7 DUE AUTHORIZATION - The person or persons signing this Agreement on behalf of Contractor hereby represent and warrant to University that this Agreement is duly authorized, signed, and delivered by Contractor.

THIS AGREEMENT is entered into by University and Contractor as of the date set forth above.

CONTRACTOR:	UNIVERSITY:
	The Regents of the University of California
(Name of Firm)	
	University of California, Merced
(Type of Organization)	(Facility)
By:	By:
(Signature)	(Signature)
	Mick McLeod
(Printed Name)	(Printed Name)
	Vice Chancellor/Chief Operating Officer
(Title)	(Title)

California Contractor's License(s):

(Name of Licensee)

(Classification and License Number)

(Expiration Date)

Employer Identification Number

(EIN NUMBER)

Attach notary acknowledgment for all signatures of Contractor. If signed by other than the sole proprietor, a general partner, or corporate officer, attach original notarized Power of Attorney or Corporate Resolution.

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Multiple Prime Trade Contract

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ARTICLE 1

GENERAL PROVISIONS

1.1 BASIC DEFINITIONS

1.1.1 APPLICABLE CODE REQUIREMENTS
The term "Applicable Code Requirements" means all laws, statutes, the most recent building codes, ordinances, rules, regulations, and lawful orders of all public authorities having jurisdiction over University, Prime Trade Contractor, any Subcontractor, the Project, the Project site, the Work, or the prosecution of the Work including without limitation the requirements set forth in Article 3.7 of the General Conditions.

1.1.2 APPLICATION FOR PAYMENT
The term “Application for Payment” means the submittal from Prime Trade Contractor wherein payment for certain portions of the completed Work is requested in accordance with Article 9 of the General Conditions.

1.1.3 BENEFICIAL OCCUPANCY
The term “Beneficial Occupancy” means the University's right to occupancy or use of any part of the Work in accordance with Article 9 of the General Conditions.

1.1.4 CERTIFICATE FOR PAYMENT
The term “Certificate for Payment” means the form signed by University's Representative attesting to the Prime Trade Contractor's right to receive payment for certain completed portions of the Work in accordance with Article 9 of the General Conditions.

1.1.5 CHANGE ORDER
See Article 7.2 of the General Conditions

1.1.6 CLAIM
See Article 4.3 of the General Conditions.

1.1.7 COMPENSABLE DELAY
The term “Compensable Delay” means a delay that entitles the Prime Trade Contractor to an adjustment of the Contract Sum and an adjustment of the Contract Time pursuant to Articles 7 and 8 of the General Conditions.

1.1.8 CONTRACT
The term “Contract” shall have the meaning identified in Article 2 of the Agreement.

1.1.9 CONTRACT DOCUMENTS
The term “Contract Documents” means all documents listed in Article 2 of the Agreement, as modified by Change Order, including but not limited to the Drawings and Specifications.

1.1.10 CONTRACT MILESTONE
The term “Contract Milestone” means any requirement in the Contract Documents that reflects a planned point in time for the start or completion of a portion of the Work measured from I) the date of the Notice to proceed or ii) the date of another Contract Milestone defined in the contract Documents, as applicable.

1.1.11 CONTRACT SUM
The term “Contract Sum” means the amount of compensation stated in the Agreement for the performance of the Work, as adjusted by Change Order.

1.1.12 CONTRACT TIME

The term “Contract Time” means the number of days set forth in the Agreement, as adjusted by Change Order, within which Prime Trade Contractor must achieve full completion of the Work.

1.1.13 COST OF EXTRA WORK
See Article 7.3 of the General Conditions.

1.1.14 DAY
The term “day,” as used in the Contract Documents, shall mean calendar day, unless otherwise specifically provided.

1.1.15 DEFECTIVE WORK
The term “Defective Work” means work that is unsatisfactory, faulty, omitted, incomplete, deficient, or does not conform to the requirements of the Contract Documents, directives of University's Representative, or the requirements of any inspection, reference standard, test, or approval specified in the Contract Documents.

1.1.16 DRAWINGS
The term “Drawings” means the graphic and pictorial portions of the Contract Documents showing the design, location, and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams. The Drawings are listed in the List of Drawings.

1.1.17 EXCUSABLE DELAY
The term “Excusable Delay” means a delay that entitles the Prime Trade Contractor to an adjustment of the Contract Time but not an adjustment of the Contract Sum, pursuant to Articles 7 and 8 of the General Conditions.

1.1.18 EXTRA WORK
The term “Extra Work” means Work beyond or in addition to the Work required by the Contract Documents.

1.1.19 FIELD ORDER
See Article 7.2 of the General Conditions.

1.1.20 FINAL COMPLETION
The term “Final Completion” means the date at which the Work has been fully completed in accordance with the requirements of the Contract Documents pursuant to Article 9.8.1 of the General Conditions.

1.1.21 GUARANTEE TO REPAIR PERIOD
See Article 12.2 of the General Conditions.

1.1.22 MASTER PROJECT SCHEDULE
The term “Master Project Schedule” means the graphical representation of a practical plan, in accordance with Article 3 of the General Conditions and the Specifications, to perform and complete the Project within the Project Time.

1.1.23 PRIME TRADE CONTRACTOR
The term “Prime Trade Contractor” means the person or firm identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number.

1.1.24 PRIME TRADE CONTRACTOR FEE
See Article 7.3 of the General Conditions.

1.1.25 PRIME TRADE CONTRACTOR SCHEDULE
The term “Prime Trade Contractor Schedule” means the graphical representation of a practical plan, in accordance with Article 3 of the General Conditions and the Specifications, to perform and complete the Work within the Contract Time.

1.1.26 PROJECT

The term “Project” means the Work of the Contract and all other work, labor, equipment, and materials necessary to accomplish the construction of the improvement of which the Work is a part. The Project will include construction by Separate Contractors.

1.1.27 PROJECT SITE

The term “Project Site” or “Project site” or “Site” or “site” means lands and facilities upon which the Work pertaining to physical construction operations is performed, including such access and other lands and facilities designated in the Contract Documents for use by Contractor.

1.1.28 PROJECT SUBSTANTIAL COMPLETION

The term “Project Substantial Completion” means the stage in the progress of the Project, as determined by University's Representative, when all work of the Project is complete and in accordance with the Contract Documents and Substantial Completion of all Prime Trade Contracts have occurred except only for completion of minor items which do not impair University's ability to occupy and fully utilize all work of the Project for its intended purpose and a Certificate of Occupancy for the Project has been issued by the University’s Building Official.

1.1.29 PROJECT TIME

The term “Project Time” means the number of days from the first Notice to Proceed issued to a Prime Trade Contractor to the date for completion of the Project.

1.1.30 SEPARATE CONTRACTOR

The term “Separate Contractor” means a person or firm under separate contract with University performing other work related to the Project.

1.1.31 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

See Article 3.12 of the General Conditions.

1.1.32 SPECIFICATIONS

The term “Specifications” means that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.

1.1.33 SUBCONTRACTOR

The term “Subcontractor” means a person or firm that has a contract with Prime Trade Contractor or with a Subcontractor to perform a portion of the Work. Unless otherwise specifically provided, the term Subcontractor includes Subcontractors of all tiers.

1.1.34 SUBSTANTIAL COMPLETION

See Article 9.7 of the General Conditions.

1.1.35 SUPERINTENDENT

The term “Superintendent” means the person designated by Prime Trade Contractor to represent Prime Trade Contractor at the Project site in accordance with Article 3 of the General Conditions.

1.1.36 TIER

The term “tier” means the contractual level of a Subcontractor or supplier with respect to Prime Trade Contractor. For example, a first-tier Subcontractor is under subcontract with Prime Trade Contractor, a second-tier Subcontractor is under subcontract with a first-tier Subcontractor, and so on.

1.1.37 UNEXCUSABLE DELAY
The term “Unexcusable Delay” means a delay that does not entitle the Prime Trade Contractor to an adjustment of the Contract Sum and does not entitle the Prime Trade Contractor to an adjustment of the Contract Time.

1.1.38 UNILATERAL CHANGE ORDER
See Article 7.2 of the General Conditions.

1.1.39 UNIVERSITY
The term “University” means The Regents of the University of California.

1.1.40 UNIVERSITY BUILDING OFFICIAL
The term “University’s Building Official,” or “Certified Building Official,” shall mean the individual the University has designated to act in the capacity as the “Building Official” as defined by the California Building Standards Code. The University’s Building Official will determine whether the all work of the Project complies with Applicable Code Requirements and will determine whether and when it is appropriate to issue a Certificate of Occupancy.

1.1.41 UNIVERSITY'S REPRESENTATIVE
The term “University's Representative” means the person identified as such in the Agreement.

1.1.42 UNIVERSITY’S RESPONSIBLE ADMINISTRATOR
The term “University’s Responsible Administrator” means the person, or his or her authorized designee, who is authorized to sign the Agreement and other applicable contract Documents on behalf of the University.

1.1.43 WORK
The term “Work” means all construction, services, and other requirements of the Contract Documents as modified by Change Order, whether completed or partially completed, and includes all labor, materials, equipment, tools, and services provided or to be provided by Prime Trade Contractor to fulfill Prime Trade Contractor's obligations. The Work will constitute a part of the Project.

1.2 OWNERSHIP AND USE OF CONTRACT DOCUMENTS

1.2.1 The Contract Documents and all copies thereof furnished to or provided by Prime Trade Contractor are the property of the University and are not to be used on other work.

1.3 INTERPRETATION

1.3.1 The Contract Documents are complementary and what is required by one shall be as binding as if required by all. In the case of conflict between terms of the contract Documents, the following order of precedence shall apply:

.1 The Agreement
.2 The Supplementary Conditions
.3 The General Conditions
.4 The Specifications
.5 The Drawings

1.3.2 With respect to the Drawings, figured dimensions shall control over scaled measurements and specific details shall control over typical or standard details.

1.3.3 Organization of the Specifications into various subdivisions and the arrangement of the Drawings shall not control Prime Trade Contractor in dividing the Work among Subcontractors or in establishing the extent of work to be performed by any trade.

1.3.4 Unless otherwise stated in the Contract Documents, technical words and abbreviations contained in the Contract Documents are used in accordance with commonly understood construction industry meanings; and non-technical words and abbreviations are used in accordance with their commonly understood meanings.

1.3.5 The Contract Documents may omit modifying words such as “all” and “any,” and articles such as “the” and “an,” but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement. The use of the word “including,” when following any general statement, shall not be construed to limit such statement to specific items or matters set forth immediately following such word or to similar items or matters, whether or not nonlimiting language (such as “without limitation,” “but not limited to,” or words of similar import) is used with reference thereto, but rather shall be deemed to refer to all other items or matters that could reasonably fall within the broadest possible scope of such general statement.

1.3.6 Whenever the context so requires, the use of the singular number shall be deemed to include the plural and vice versa. Each gender shall be deemed to include any other gender, and each shall include corporation, partnership, trust, or other legal entity whenever the context so requires. The captions and headings of the various subdivisions of the Contract Documents are intended only for reference and convenience and in no way define, limit, or prescribe the scope or intent of the Contract Documents or any subdivision thereof.

ARTICLE 2

UNIVERSITY

2.1 INFORMATION AND SERVICES PROVIDED BY UNIVERSITY

2.1.1 If required for performance of the Work, as determined by University's Representative, University will make available a survey describing known physical characteristics, boundaries, easements, and utility locations for the Project site.
2.1.2 University is not subject to any requirement to obtain or pay for local building permits, inspection fees, plan checking fees, or certain utility fees. Except as otherwise provided in the Contract Documents, University will obtain and pay for any utility permits, demolition permits, easements, and government approvals for the use or occupancy of permanent structures required in connection with the Work.

2.1.3 Prime Trade Contractor will be furnished, free of charge, such copies of the Contract Documents as University deems reasonably necessary for execution of the Work.

2.2 ACCESS TO PROJECT SITE

2.2.1 University will provide, no later than the earliest start date for the Prime Trade Contractor as shown in the Master Project Schedule, access to the lands and facilities upon which the Work is to be performed, including such access and other lands and facilities designated in the Contract Documents for use by Prime Trade Contractor.

2.3 UNIVERSITY'S RIGHT TO STOP THE WORK

2.3.1 If Prime Trade Contractor fails to correct Defective Work as required by Article 12.2 of the General Conditions or fails to perform the Work in accordance with the Contract Documents, University or University's Representative may direct Prime Trade Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated by Prime Trade Contractor. Prime Trade Contractor shall not be entitled to any adjustment of Contract Time or Contract Sum as a result of any such order. University and University's

Representative have no duty or responsibility to Prime Trade Contractor or any other party to exercise the right to stop the Work.

2.4 UNIVERSITY'S RIGHT TO CARRY OUT THE WORK

If Prime Trade Contractor fails to carry out the Work in accordance with the Contract Documents, fails to provide sufficient labor, materials, equipment, tools, and services to maintain the Master Project Schedule, fails to start any activity by its start date as directed by the University Representative which will be no earlier than the early start date nor later than the late start date reflected in the Master Project Schedule, fails to complete any activity by its completion date as directed by the University Representative which will be no earlier than the early completion date nor later than the late completion date as reflected in the Master Project Schedule, or otherwise fails to comply with any material term of the Contract Documents, and, after receipt of written notice from University, fails within 2 days, excluding Saturdays, Sundays and legal holidays, or within such additional time as the University may specify, to correct such failure and thereafter diligently continue to completion, University may, without prejudice to other remedies University may:

.1 Correct such failure at Prime Trade Contractor's expense. In such case, University will be entitled to deduct from payments then or thereafter due Prime Trade Contractor the cost of correcting such failure, including compensation for the additional services and expenses of University's Representative and University's consultants made necessary thereby. If payments then or thereafter due Prime Trade Contractor are not sufficient to cover such amounts, Prime Trade Contractor shall pay the additional amount to University.

.2 Supply additional workers to the Prime Trade Contractor in such quantity and for such period as deemed necessary by the University’s Representative, all at the Prime Trade Contractor’s expense. In such case, University will be entitled to deduct from payments then or thereafter due Prime Trade Contractor the cost of such additional workers, including compensation for the additional services and expenses of University's Representative and University's consultants made necessary thereby. If payments then or thereafter due Prime Trade Contractor are not sufficient to cover such amounts, Prime Trade Contractor shall pay the additional amount to University.

2.5 UNIVERSITY'S RIGHT TO REPLACE UNIVERSITY'S REPRESENTATIVE

2.5.1 University may at any time and from time to time, without prior notice to or approval of Prime Trade Contractor, replace University's Representative with a new University's Representative. Upon receipt of notice from University informing Prime Trade Contractor of such replacement and identifying the new University's Representative, Prime Trade Contractor shall recognize such person or firm as University's Representative for all purposes under the Contract Documents.

2.6 UNIVERSITY’S RIGHT TO ACCELERATE THE WORK

2.6.1 University may direct the acceleration of the Work by Prime Trade Contractor to meet schedule requirements when the Work has been delayed by one or more Separate Contractors and such delay would otherwise give rise to a time extension. The University will compensate the Prime Trade Contractor for the additional costs incurred by such acceleration to the extent that such costs are directly attributable to the acceleration and are incurred through no fault or negligence of the Prime Trade Contractor.

2.6.2 Any acceleration directed by University pursuant to the foregoing provision will be by a Change Order. The University will not be obligated, under any circumstances, to direct such acceleration and may elect, at its option, not to accelerate the Work of the Prime Trade Contractor.

2.6.3 University may accelerate the work of one or more Separate Contractors to meet schedule requirements when the Work of Prime Trade Contractor does not adhere to the Master Project Schedule and said failure to

adhere causes, in whole or in part, a delay in the work of such Separate Contractors and if such delay would otherwise give rise to a time extension. The University may reduce the Contract Sum by the amounts incurred due to the acceleration.

ARTICLE 3

PRIME TRADE CONTRACTOR

3.1 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY PRIME TRADE CONTRACTOR

3.1.1 Prime Trade Contractor shall carefully study and compare each of the Contract Documents with the others and with information furnished by University, and shall promptly report in writing to University's Representative any errors, inconsistencies, or omissions in the Contract Documents or inconsistencies with Applicable Code Requirements observed by Prime Trade Contractor.

3.1.2 Prime Trade Contractor shall take field measurements, verify field conditions, and carefully compare with the Contract Documents such field measurements, conditions, and other information known to Prime Trade Contractor before commencing the Work. Errors, inconsistencies, or omissions discovered at any time shall be promptly reported in writing to University's Representative.

3.1.3 If Prime Trade Contractor performs any construction activity which it knows or should know involves an error, inconsistency, or omission referred to in Articles 3.1.1 and 3.1.2 above, without notifying and obtaining the written consent of University's Representative, Prime Trade Contractor shall be responsible for the resultant losses, including, without limitation, the costs of correcting Defective Work.

3.2 SUPERVISION AND CONSTRUCTION PROCEDURES

3.2.1 Prime Trade Contractor shall supervise, coordinate, and direct the Work using Prime Trade Contractor's best skill and attention. Except as otherwise reserved to the University, Prime Trade Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, procedures, and the coordination of all portions of the Work.

3.2.2 Prime Trade Contractor shall be responsible to University for acts and omissions of Prime Trade Contractor's agents, employees, and Subcontractors, and their respective agents and employees.

3.2.3 Prime Trade Contractor shall not be relieved of its obligation to perform the Work in accordance with the Contract Documents either by acts or omissions of University or University's Representative in the administration of the Contract, or by tests, inspections, or approvals required or performed by persons or firms other than Prime Trade Contractor.

3.2.4 Prime Trade Contractor shall be responsible for inspection of all portions of the Work, including those portions already performed under this Contract, to determine that such portions conform to the requirements of the Contract Documents and are ready to receive subsequent Work.

3.2.5 Prime Trade Contractor shall at all times maintain good discipline and order among its employees and Subcontractors. Prime Trade Contractor shall provide competent, fully qualified personnel to perform the Work.

3.3 LABOR AND MATERIALS

3.3.1 Unless otherwise provided in the Contract Documents, Prime Trade Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation,

and other facilities and services necessary for proper execution and Final Completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

3.4 PRIME TRADE CONTRACTOR'S WARRANTY

3.4.1 Prime Trade Contractor warrants to University that all materials and equipment used in or incorporated into the Work will be of good quality, new, and free of liens, claims, and security interests of third parties; that the Work will be of good quality and free from defects; and that the Work will conform with the requirements of the Contract Documents. If required by University's Representative, Prime Trade Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

3.5 TAXES

3.5.1 Prime Trade Contractor shall pay all sales, consumer, use, and similar taxes for the Work or portions thereof provided by Prime Trade Contractor.

3.6 PERMITS, FEES, AND NOTICES

3.6.1 Except for the permits and approvals which are to be obtained by University or the requirements with respect to which University is not subject as provided in Article 2.1.2 of the General Conditions, Prime Trade Contractor shall secure and pay for all permits, approvals, government fees, licenses, and inspections necessary for the proper execution and performance of the Work. Prime Trade Contractor shall deliver to University all original licenses, permits, and approvals obtained by Prime Trade Contractor in connection with the Work prior to the final payment or upon termination of the Contract, whichever is earlier.

3.7 APPLICABLE CODE REQUIREMENTS

3.7.1 Prime Trade Contractor shall perform the Work in accordance with the following Applicable Code Requirements:

.1 All laws, statutes, the most recent building codes, ordinances, rules, regulations, and lawful orders of all public authorities having jurisdiction over University, Prime Trade Contractor, any Subcontractor, the Project, the Project site, the Work, or the prosecution of the Work.

.2 All requirements of any insurance company issuing insurance required hereunder.

.3 The Federal Occupational Safety and Health Act and all other Applicable Code Requirements relating to safety.

.4 Applicable titles in the State of California Code of Regulations.

.5 Applicable sections in the State of California Labor Code.

.6 All Applicable Code Requirements relating to nondiscrimination, payment of prevailing wages, payroll records, apprentices, and work day.

Without limiting the foregoing, Prime Trade Contractor shall comply with the provisions regarding nondiscrimination, payment of prevailing wages, payroll records, apprentices, and work day set forth in Article 14 of the General Conditions.

3.7.2 Prime Trade Contractor shall comply with and give notices required by all Applicable Code Requirements, including all environmental laws and all notice requirements under the State of California Safe Drinking Water and Enforcement Act of 1986 (State of California Health and Safety Code Section 25249.5 and applicable sections that follow). Prime Trade Contractor shall promptly notify University's Representative in writing if Prime Trade Contractor becomes aware during the performance of the Work that the Contract Documents are at variance with Applicable Code Requirements.

3.7.3 If Prime Trade Contractor performs Work which it knows or should know is contrary to Applicable Code Requirements, without prior notice to University and University's Representative, Prime Trade Contractor shall be responsible for such Work and any resulting damages including, without limitation, the costs of correcting Defective Work.

3.8 SUPERINTENDENT

3.8.1 Prime Trade Contractor shall employ a competent Superintendent satisfactory to University who shall be in attendance at the Project site at all times during the performance of the Work. Superintendent shall represent Prime Trade Contractor and communications given to and received from Superintendent shall be binding on Prime Trade Contractor.

3.8.2 Failure to maintain a Superintendent on the Project site at all times that Work is in progress shall be considered a material breach of this Contract, entitling University to terminate the Contract or alternatively, issue a stop Work order until the Superintendent is on the Project site. If, by virtue of issuance of said stop Work order, the Project is not completed within the Contract Time, Prime Trade Contractor will be assessed Liquidated Damages in accordance with the Agreement.

3.8.3 The Superintendent approved for the Project must be able to read, write and verbally communicate in English.

3.8.4 The superintendent may not perform the Work of any trade, pick-up materials, or perform any Work not directly related to the supervision and coordination of the Work at the Project site when Work is in progress.

3.9 SCHEDULES REQUIRED OF PRIME TRADE CONTRACTOR

3.9.1 The University's Representative has developed an overall "Preliminary Master Project Schedule" indicating major milestones and construction sequences for the Project, showing the general timing for the work of Prime Trade Contractor. This Preliminary Master Project Schedule is for Bidder information and guidance only, and is not intended to serve as the Master Project Schedule that will be utilized for construction. However, the construction milestones and sequences shall be the basis for the Master Project Schedule, unless the University's Representative modifies them to improve the overall progress and completion by utilizing revised logic and revised schedule.

3.9.2 Using the Prime Trade Contract Schedules submitted by each of the Prime Trade Contractors, the University’s Representative will develop and issue the Master Project Schedule showing completion of the Project within the Project Time. University Representative may require additional information from the Prime Trade Contractor during development of the Master Project Schedule.

3.9.3 The University Representative may impose upon the Prime Trade Contractor, in the initial Master Project Schedule, whatever scheduling requirements are deemed appropriate, consistent with the Preliminary Master Project Schedule, and the Prime Trade Contractor shall comply with any such requirements, at no additional cost to University.

3.9.4 The Prime Trade Contractor shall submit updated schedule information to University’s Representative within the time limits required by the Specifications and acceptable to University’s Representative. The University Representative may, at any time, make reasonable adjustments, at no cost to the University, to the Master Project Schedule so that the Project may be completed within the Contract Time, or if completion within the Contract Time is impracticable, to mitigate damages to the University resulting from late completion of the Project.

3.9.5 The Master Project Schedule shall represent a practical plan to complete the Work so that the entire Project can be fully completed within the Project Time.

3.9.6 The Prime Trade Contractor shall prepare and keep current, to the satisfaction of University's Representative, a Submittal Schedule, in the form contained in the Exhibits, for each submittal, as required by the Specifications, and that are coordinated with the other activities in the Master Project Schedule.

3.9.7 Prime Trade Contractor shall plan, develop, supervise, control, and coordinate the performance of the Work so that its progress and the sequence and timing of Work activities conform to the current Master Project Schedule. Prime Trade Contractor shall continuously obtain from Subcontractors updated information and data about the planning for and progress of the Work and the delivery of equipment, shall coordinate, and monitor the progress of the Work and the delivery of equipment. Prime Trade Contractor shall act as the expeditor of potential and actual delays, interruptions, hindrances, or disruptions for its own forces and those forces of Subcontractors, regardless of tier. Prime Trade Contractor shall cooperate with University's Representative in the development of the Prime Trade Contract Schedule, the Master Project Schedule, and their updates.

University's Representative's acceptance of or its review comments about Prime Trade Contractor Schedule or scheduling data provided by Prime Trade Contractor shall not relieve Prime Trade Contractor of its sole responsibility to plan for, perform, and fully complete its Work within the Contract Time. Acceptance of or review comments about the Prime Trade Contractor Schedule shall not imply the University’s agreement with (1) any assumption upon which such Prime Trade Contractor Schedule is based, or (2) any matter underlying or contained in such Prime Trade Contractor Schedule.

Failure of University's Representative to discover errors or omissions in the Prime Trade Contractor Schedules that it has reviewed, or to inform Prime Trade Contractor that Prime Trade Contractor is behind schedule, or to direct or enforce procedures for complying with the Master Project Schedule shall not relieve Prime Trade Contractor from its sole responsibility to perform and complete the Work and shall not be a cause for an adjustment of the Contract Time or the Contract Sum.

3.9.8 The Work may require performance in several areas of the project simultaneously in order to fully complete the Project within the Project Time. As each area becomes available, Prime Trade Contractor shall begin work in those respective areas with additional crews if necessary to avoid a reduction of effort in other areas already under construction.

3.9.9 Subject to University's rights under the Prime Trade Contract or at law, time is of the essence in the Prime Trade Contractor's performance of this Contract. Prime Trade Contractor agrees to promptly commence work when directed by University's Representative.

3.9.10 In addition to any completion dates required under the Prime Trade Contract, the Prime Trade Contractor agrees to perform the work in accordance with University's Representative's Master Project Schedule, including all subsequent modifications to the Master Project Schedule by University's Representative. Prime Trade Contractor agrees to perform the work in a way that will not delay University, University's Representative, or the progress of the Project, all at Prime Trade Contractor's cost and without additional cost or liability to University.

3.9.11 If, at any time during Prime Trade Contractor's performance of the work, the actual progress of the Prime Trade Contractor's Work falls behind the Master Project Schedule, then Prime Trade Contractor agrees to immediately take any steps necessary per University's Representative's sole discretion to improve progress in the Work or the Project. All these steps will be taken at Prime Trade Contractor's cost and without additional cost or liability to the University. If for any reason the Prime Trade Contractor's progress is not in accord with University's Representative's current Master Project Schedule, including remedial schedules, or any dates or intervals required elsewhere by the Prime Trade Contract, University's Representative may require Prime Trade Contractor to increase its labor force, its supervision force, the number of work shifts, overtime, work on weekends and holidays, the equipment on the Project, revise or modify its construction procedures and sequences and any other measures which University's Representative considers necessary, all without additional cost or liability to University. Neither notice by University's Representative nor the failure to issue notice that Prime Trade Contractor's progress is inadequate shall relieve Prime

Trade Contractor from its obligation to achieve the quality of work and rate of progress required by University's Representative.

If University incurs expense or loss or it appears that University may sustain expense or loss due to Prime Trade Contractor's failure to comply with the above provisions, University or University's Representative may either deduct that amount from any progress payment or retention payable to Prime Trade Contractor and/or delay payment of any sums otherwise owing to Prime Trade Contractor until the situation is remedied or adjusted to University's or University's Representative's satisfaction.

3.9.12 The University Representative will schedule and coordinate the activities of the Prime Trade Contractor in accordance with the latest approved Master Project Schedule. The Prime Trade Contractor shall cooperate with the University Representative in the reasonable determinations of scheduling and performing the Prime Trade Contractor's work to avoid conflict, delay in or interference with the Work or other Prime Trade Contractors, or Separate Contractors, regardless of their float shown on the Master Project Schedule.

3.9.13 University's Representative may, at any time, update, supplement or revise its Master Project Schedule and/or require Prime Trade Contractor to suspend, delay or re-sequence its work. Such updates, supplements, revisions, suspensions, delays or re-sequencing shall be without additional cost or liability to University except to the extent they result in Prime Trade Contractor working beyond the Contract Time, through no fault of the Prime Trade Contractor. To the extent such updates, supplements, revisions, suspensions, delays or re-sequencing result in Prime Trade Contractor working beyond the Contract Time, through no fault of the Prime Trade Contractor, the Prime Trade Contract shall be subject to adjustment provided the Prime Trade Contractor complies with the requirements of the Prime Trade Contract for seeking an adjustment, including without limitation, the requirements set forth in Articles 4, 7 and 8 of the General Conditions. Notwithstanding the foregoing, the University may elect to accelerate the work of one or more Separate Contractors to reduce or eliminate the delay and require the Prime Trade Contractor to complete its Work within the Contract Time.

3.10 AS-BUILT DOCUMENTS

3.10.1 Prime Trade Contractor shall maintain one set of As-built drawings and specifications, which shall be kept up to date during the Work of the Contract. All changes which are incorporated into the Work which differ from the documents as drawn and written shall be noted on the As-built set. Notations shall reflect the actual materials, equipment, and installation methods used for the Work and each revision shall be initialed and dated by Superintendent. Prior to filing of the Notice of Completion each drawing and the specification cover shall be signed by Prime Trade Contractor and dated attesting to the completeness of the information noted therein. As-built Documents shall be turned over to the University's Representative and shall become part of the Record Documents.

3.11 DOCUMENTS AND SAMPLES AT PROJECT SITE

3.11.1 Prime Trade Contractor shall maintain the following at the Project site:

.1 One as-built copy of the Contract Documents, in good order and marked to record current changes and selections made during construction.

.2 The current accepted Master Project Schedule and Prime Trade Contractor Schedule.

.3 Shop Drawings, Product Data, and Samples.

.4 All other required submittals.

These shall be available to University's Representative and shall be delivered to University's Representative for submittal to University upon the earlier of Final Completion or termination of the Contract.

3.12 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

3.12.1 Definitions:

.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by Prime Trade Contractor or a Subcontractor to illustrate some portion of the Work.

.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by Prime Trade Contractor to illustrate or describe materials or equipment for some portion of the Work.

.3 Samples are physical examples which illustrate materials, equipment, or workmanship and establish standards by which the Work will be judged.

3.12.2 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate, for those portions of the Work for which submittals are required, how Prime Trade Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents.

3.12.3 Prime Trade Contractor shall review, approve, and submit to University's Representative Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of University or of Separate Contractors. Submittals made by Prime Trade Contractor which are not required by the Contract Documents may be returned without action by University's Representative.

3.12.4 Prime Trade Contractor shall perform no portion of the Work requiring submittal and review of Shop Drawings, Product Data, Samples, or similar submittals until the respective submittal has been reviewed by University's Representative and no exceptions have been taken by University's Representative. Such Work shall be in accordance with approved submittals and the Contract Documents.

3.12.5 By approving and submitting Shop Drawings, Product Data, Samples, and similar submittals, Prime Trade Contractor represents that it has determined or verified materials and field measurements and conditions related thereto, and that it has checked and coordinated the information contained within such submittals with the requirements of the Contract Documents and Shop Drawings for related Work.

3.12.6 If Prime Trade Contractor discovers any conflicts, omissions, or errors in Shop Drawings or other submittals, Prime Trade Contractor shall notify University's Representative and receive instruction before proceeding with the affected Work.

3.12.7 Prime Trade Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by University's Representative's review of Shop Drawings, Product Data, Samples, or similar submittals, unless Prime Trade Contractor has specifically informed University's Representative in writing of such deviation at the time of submittal and University's Representative has given written approval of the specific deviation. Prime Trade Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals by University's Representative's review, acceptance, comment, or approval thereof.

3.12.8 Prime Trade Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by University's Representative on previous submittals.

3.13 USE OF SITE AND CLEAN UP

3.13.1 Prime Trade Contractor shall confine operations at the Project site to areas permitted by law, ordinances, permits, and the Contract Documents. Prime Trade Contractor shall not unreasonably encumber the Project site with materials or equipment.

3.13.2 Prime Trade Contractor shall, during performance of the Work, keep the Project site and surrounding area free from the accumulation of excess dirt, waste materials, and rubbish caused by Prime Trade Contractor. Prime Trade Contractor shall remove all excess dirt, waste material, and rubbish caused by the Prime Trade Contractor; tools; equipment; machinery; and surplus materials from the Project site and surrounding area at the completion of the Work.

3.13.3 Personnel of Prime Trade Contractor and Subcontractors shall not occupy, live upon, or otherwise make use of the Project site during any time that Work is not being performed at the Project site, except as otherwise provided in the Contract Documents.

3.14 CUTTING, FITTING, AND PATCHING

3.14.1 Prime Trade Contractor shall do all cutting, fitting, or patching of the Work required to make all parts of the Work come together properly and to allow the Work to receive or be received by work of Separate Contractors shown upon, or reasonably implied by, the Contract Documents.

3.14.2 Prime Trade Contractor shall not endanger the Work, the Project, or adjacent property by cutting, digging, or otherwise. Prime Trade Contractor shall not cut or alter the work of any Separate Prime Trade Contractor without the prior consent of University's Representative.

3.15 ACCESS TO WORK

3.15.1 University, University's Representative, their consultants, and other persons authorized by University will at all times have access to the Work wherever it is in preparation or progress. Prime Trade Contractor shall provide safe and proper facilities for such access and for inspection.

3.16 ROYALTIES AND PATENTS

3.16.1 Prime Trade Contractor shall pay all royalties and license fees required for the performance of the Work. Prime Trade Contractor shall defend suits or claims resulting from Prime Trade Contractor's or any Subcontractor's infringement of patent rights and shall Indemnify University and University's Representative from Losses on account thereof.

3.17 DIFFERING SITE CONDITIONS

3.17.1 If Prime Trade Contractor encounters any of the following conditions at the site, Prime Trade Contractor shall immediately notify the University's Representative in writing of the specific differing conditions before they are disturbed and before any affected Work is performed, and permit investigation of the conditions:

.1 Subsurface or latent physical conditions at the site which differ materially from those indicated in this Contract, or if not indicated in this Contract, in the Information Available to Bidders; or

.2 Unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.

3.17.2 Prime Trade Contractor shall be entitled to an adjustment to the Contract Sum and/or Contract Time as the result of extra costs and/or delays resulting from a materially differing site condition, if and only if Prime Trade Contractor fulfills the following conditions:

.1 Prime Trade Contractor fully complies with Article 3.17.1 above; and

.2 Prime Trade Contractor fully complies with Article 4 of the General Conditions (including the timely filing of a Change Order Request and all other requirements for Change Orders Requests and Claims).

3.17.3 Adjustments to the Contract Sum and/or Contract Time shall be subject to the procedures and limitations

set forth in Articles 7 and 8 of the General Conditions.

3.18 CONCEALED, UNFORESEEN, OR UNKNOWN CONDITIONS OR EVENTS

3.18.1 Except and only to the extent provided otherwise in Articles 3.17, 7 and 8 of the General Conditions, by signing the Agreement, Prime Trade Contractor agrees:

.1 To bear the risk of concealed, unforeseen or unknown conditions and events, if any, which may be encountered in performing the Contract; and

.2 That Prime Trade Contractor's bid for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of concealed, unforeseen or unknown conditions and events, Prime Trade Contractor understands that, except and only to the extent provided otherwise in Articles 3.17, 7 and 8 of the General Conditions, concealed, unforeseen or unknown conditions and events shall not excuse Prime Trade Contractor from its obligation to achieve full completion of the Work within the Contract Time, and shall not entitle the Prime Trade Contractor to an adjustment of the Contract Sum.

3.18.2 If Prime Trade Contractor encounters concealed or unknown conditions that differ materially from those anticipated or expected, Prime Trade Contractor shall immediately notify University's Representative in writing such that University's Representative can determine if such conditions require design details which differ from those design details shown in the Contract Documents. Prime Trade Contractor shall be liable to University for any extra costs incurred as the result of Prime Trade Contractor's failure to immediately give such notice.

3.18.3 If concealed or unknown conditions are encountered which require, in the opinion of University's Representative, design details which differ from those design details shown in the Contract Documents and the University's Representative finds that such revised design details will cause an increase or decrease in the cost of, or the time required for performance of the Contract, and if University agrees with the University's Representative's determinations, University will issue a Change Order modifying the Contract Terms to provide for the change in design details and to provide for an adjustment in the Contract Sum and/or Contract Time pursuant to Articles 7 and 8 of the General Conditions.

3.18.4 Prime Trade Contractor shall, as a condition precedent to any adjustment in Contract Sum or Contract Time under Article 3.18.3 above, fully comply with Article 4 of the General Conditions (including the timely filing of a Change Order Request and all other requirements for Change Orders Requests and Claims).

3.19 INFORMATION AVAILABLE TO BIDDERS

3.19.1 Any information provided pursuant to INFORMATION AVAILABLE TO BIDDERS is subject to the following provisions:

.1 The information is made available for the convenience of Bidders and is not a part of the Contract.

.2 The Prime Trade Contractor may rely on written descriptions of physical conditions included in the information to the extent such reliance is reasonable.

.3 Other components of the information, including but not limited to recommendations, may not be relied upon by Prime Trade Contractor. University shall not be responsible for any interpretation of or conclusion drawn from the other components of the information by the Prime Trade Contractor.

3.20 LIABILITY FOR AND REPAIR OF DAMAGED WORK

3.20.1 Prime Trade Contractor shall be liable for any and all damages and losses to the Project (whether by fire, theft, vandalism, earthquake or otherwise) prior to University's acceptance of the Project as fully completed except that Prime Trade Contractor shall not be liable for:

.1 Losses covered by the builder's risk property insurance provided by University pursuant to Article 11

of the General Conditions, except that the Prime Trade Contractor shall be liable for any deductible(s) and any amounts exceeding policy limits.

.2 Earthquake, tidal wave, or flood, provided that the loss was not caused in whole or in part by the negligent acts or omissions of Prime Trade Contractor, its officers, agents or employees (including all Subcontractors and suppliers of all tiers). As used herein, “flood” shall have the same meaning as in the builder’s risk property insurance.

3.20.2 Prime Trade Contractor shall promptly repair and replace any Work or materials damaged or destroyed for which the Prime Trade Contractor is liable under Article 3.20.1 above.

3.21 INDEMNIFICATION

3.21.1 Prime Trade Contractor shall Indemnify University, University's consultants, University's Representative, University's Representative's consultants, and their respective directors, officers, agents, and employees from and against losses arising out of, resulting from, or relating to the following:

.1 The failure of Prime Trade Contractor to perform its obligations under the Contract.

.2 The inaccuracy of any representation or warranty by Prime Trade Contractor given in accordance with or contained in the Contract Documents.

.3 Any claim of damage or loss by any Subcontractor or Separate Contractor against University arising out of any alleged act or omission of Prime Trade Contractor or any other Subcontractor, or anyone directly or indirectly employed by Prime Trade Contractor or any Subcontractor.

3.21.2 The University shall not be liable or responsible for any accidents, loss, injury (including death) or damages happening or accruing during the term of the performance of the Work herein referred to or in connection therewith, to persons and/or property, and Prime Trade Contractor shall fully indemnify, defend and hold harmless University and protect University from and against the same. In addition to the liability imposed by law upon the Prime Trade Contractor for damage or injury (including death) to persons or property by reason of the negligence of the Prime Trade Contractor, its officers, agents, employees or Subcontractors, which liability is not impaired or otherwise affected hereby, the Prime Trade Contractor shall defend, indemnify, hold harmless, release and forever discharge the University, its officers, employees, and agents from and against and waive any and all responsibility of same for every expense, liability, or payment by reason of any damage or injury (including death) to persons or property suffered or claimed to have been suffered through any negligent act, omission, or willful misconduct of the Prime Trade Contractor, its officers, agents, employees, or any of its Subcontractors, or anyone directly or indirectly employed by either of them or from the condition of the premises or any part of the premises while in control of the Prime Trade Contractor, its officers, agents, employees, or any of its Subcontractors or anyone directly or indirectly employed by either of them, arising out of the performance of the Work called for by this Contract. Prime Trade Contractor agrees that this indemnity and hold harmless shall apply even in the event of negligence of University, its officers, agents, or employees, regardless of whether such negligence is contributory to any claim, demand, loss, damage, injury, expense, and/or liability; but such indemnity and hold harmless shall not apply in the event of the sole negligence of University, its officers, agents, or employees.

3.21.3 In claims against any person or entity indemnified under this Article 3.21that are made by an employee of Prime Trade Contractor or any Subcontractor, a person indirectly employed by Prime Trade Contractor or any Subcontractor, or anyone for whose acts Prime Trade Contractor or any Subcontractor may be liable, the indemnification obligation under this Article 3.21 shall not be limited by any limitation on amount or type of damages, compensation, or benefits payable by or for Prime Trade Contractor or any Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

3.21.4 The indemnification obligations under this Article 3.21 shall not be limited by any assertion or finding that the person or entity indemnified is liable by reason of a non-delegable duty.

3.21.5 Prime Trade Contractor shall Indemnify University from and against Losses resulting from any claim of damage made by any Separate Contractor against University arising out of any alleged acts or omissions of Prime Trade Contractor, any Subcontractor, anyone directly or indirectly employed by either of them, or anyone for whose acts either of them may be liable.

3.21.6 Prime Trade Contractor shall Indemnify Separate Contractors from and against Losses arising out of the negligent acts, omissions, or willful misconduct of Prime Trade Contractor, any Subcontractor, anyone directly or indirectly employed by either of them, or anyone for whose acts either of them may be liable.

ARTICLE 4

ADMINISTRATION OF THE CONTRACT

4.1 ADMINISTRATION OF THE CONTRACT BY UNIVERSITY'S REPRESENTATIVE

4.1.1 University's Representative will provide administration of the Contract as provided in the Contract Documents and will be the representative of University. University's Representative will have authority to act on behalf of University only to the extent provided in the Contract Documents.

4.1.2 University's Representative will have the right to visit the Project site at such intervals as deemed appropriate by the University's Representative. However, no actions taken during such Project site visit by University's Representative shall relieve Prime Trade Contractor of its obligations as described in the Contract Documents.

4.1.3 Except as otherwise reserved to the University, University's Representative will not have control over, will not be in charge of, and will not be responsible for construction means, methods, techniques, sequences, coordination or procedures, or for safety precautions and programs in connection with the Work, since these are solely Prime Trade Contractor's responsibility.

4.1.4 Except as otherwise provided in the Contract Documents or when direct communications have been specifically authorized, University and Prime Trade Contractor shall communicate through University's Representative. Communications by Prime Trade Contractor with University's consultants and University's Representative's consultants shall be through University's Representative. Communications by University and University's Representative with Subcontractors will be through Prime Trade Contractor. Communications by Prime Trade Contractor and Subcontractors with Separate Contractors shall be through University's Representative. Prime Trade Contractor shall not rely on oral or other non-written communications.

4.1.5 Based on University's Representative's Project site visits and evaluations of Prime Trade Contractor's Applications For Payment, University's Representative will recommend amounts, if any, due Prime Trade Contractor and will issue Certificates For Payment in such amounts.

4.1.6 University's Representative will have the authority to reject the Work, or any portion thereof, which does not conform to the Contract Documents. University's Representative will have the authority to stop the Work or any portion thereof. Whenever University's Representative considers it necessary or advisable for implementation of the intent of the Contract Documents, University's Representative will have the authority to require additional inspection or testing of the Work in accordance with the Contract Documents, whether or not such Work is fabricated, installed, or completed. However, no authority of University's Representative conferred by the Contract Documents nor any decision made in good faith either to exercise or not exercise such authority, will give rise to a duty or responsibility of University or University's Representative to Prime Trade Contractor, or any person or entity claiming under or through Prime Trade Contractor.

4.1.7 University's Representative will have the authority to conduct inspections as provided in the Contract Documents, to take Beneficial Occupancy and to determine the dates of Substantial Completion, Project

Substantial Completion, and Final Completion; will receive for review and approval any records, written warranties, and related documents required by the Contract Documents and assembled by Prime Trade Contractor; and will issue a final Certificate For Payment upon Prime Trade Contractor's compliance with the requirements of the Contract Documents.

4.1.8 University's Representative will be, in the first instance, the interpreter of the requirements of the Contract Documents and the judge of performance thereunder by Prime Trade Contractor. Should Prime Trade Contractor discover any conflicts, omissions, or errors in the Contract Documents; have any questions about the interpretation or clarification of the Contract Documents; question whether Work is within the scope of the Contract Documents; or question that Work required is not sufficiently detailed or explained, then, before proceeding with the Work affected, Prime Trade Contractor shall notify University's Representative in writing and request interpretation, clarification, or furnishing of additional detailed instructions. University's Representative's response to questions and requests for interpretations, clarifications, instructions, or decisions will be made with reasonable promptness. Should Prime Trade Contractor proceed with the Work affected before receipt of a response from University's Representative, any portion of the Work which is not done in accordance with University's Representative's interpretations, clarifications, instructions, or decisions shall be removed or replaced and Prime Trade Contractor shall be responsible for all resultant losses.

4.2 PRIME TRADE CONTRACTOR CHANGE ORDER REQUESTS

4.2.1 Prime Trade Contractor may request changes to the Contract Sum and/or Contract Time for Extra Work, materially differing site conditions, or Delays to Final Completion of the Work.

4.2.2 Conditions precedent to obtaining an adjustment of the Contract Sum and/or Contract Time, payment of money, or other relief with respect to the Contract Documents, for any other reason, are:

.1 Timely submission of a Change Order Request that meets the requirements of Articles 4.2.3.1 and 4.2.3.2 below; and

.2 If requested, timely submission of additional information requested by the University Representative pursuant to Article 4.2.3.3 below.

4.2.3 Change Order Request:

4.2.3.1 A Change Order Request will be deemed timely submitted if, and only if, it is submitted within 7 days of the date the Prime Trade Contractor discovers, or reasonably should discover the circumstances giving rise to the Change Order Request, unless additional time is allowed in writing by University’s Representative for submission of the Change Order Request.

4.2.3.2 A Change Order Request must state that it is a Change Order Request, state and justify the reason for the request, and specify the amount of any requested adjustment of the Contract Sum, Contract Time, and/or other monetary relief. If the Prime Trade Contractor requests an adjustment to the Contract Sum or other monetary relief, the Prime Trade Contractor shall submit the following with the Change Order Request:

.1 A completed Cost Proposal in the form contained in the Exhibits meeting the requirements of Article 7 of the General Conditions; OR

.2 A partial Cost Proposal and a declaration of what required information is not then known to Prime Trade Contractor. If Prime Trade Contractor failed to submit a completed Cost Proposal with the Change Order Request, Prime Trade Contractor shall submit a completed Cost Proposal meeting the requirements of Article 7 within 7 days of the date the Prime Trade Contractor submitted the Change Order Request unless additional time is allowed by the University’s Representative.

4.2.3.3 Upon request of University's Representative, Prime Trade Contractor shall submit such additional information as may be requested by University's Representative for the purpose of evaluating the Change Order Request. Such additional information may include:

.1 If Prime Trade Contractor seeks an adjustment of the Contract Sum or other monetary relief, actual cost records for any changed or extra costs (including without limitation, payroll records, material and rental invoices and the like), shall be submitted by the deadline established by the University's Representative, who may require such actual cost records to be submitted and reviewed, on a daily basis, by the University's Representative and/or representatives of the University's Representative.

.2 If Prime Trade Contractor seeks an adjustment of the Contract Time, written documentation demonstrating Prime Trade Contractor's entitlement to a time extension under Article 8.4 of the General Conditions, which shall be submitted within 15 days of the date requested.

.3 If Prime Trade Contractor seeks an adjustment of the Contract Sum or other monetary relief for delay, written documentation demonstrating Prime Trade Contractor's entitlement to such an adjustment under Article 7.3.9 of the General Conditions, which shall be submitted within 15 days of the date requested.

.4 Any other information requested by the University's Representative for the purpose of evaluating the Change Order Request, which shall be submitted by the deadline established by the University's Representative.

4.2.4 University's Representative will make a decision on a Change Order Request, within a reasonable time, after receipt of a Change Order Request. A final decision is any decision on a Change Order Request which states that it is final. If University's Representative issues a final decision denying a Change Order Request in whole or in part, the Prime Trade Contractor may contest the decision by filing a timely Claim under the procedures specified in Article 4.4 below.

4.2.5 Prime Trade Contractor may file a written demand for a final decision by University's Representative on all or part of any Change Order Request as to which the University's Representative has not previously issued a final decision pursuant to Article 4.2.4 above; such written demand may not be made earlier than the 30th day after submission of the Change Order Request. Within 30 days of receipt of the demand, University's Representative will issue a final decision on the Change Order Request. The University's Representative's failure to issue a decision within the 30-day period shall be treated as the issuance, on the last day of the 30-day period, of a final decision to deny the Change Order Request in its entirety.

4.3 CLAIMS

4.3.1 The term "Claim" means a written demand or assertion by Prime Trade Contractor seeking an adjustment or interpretation of the terms of the Contract Documents, payment of money, extension of time, or other relief with respect to the Contract Documents, including a determination of disputes or matters in question between University and Prime Trade Contractor arising out of or related to the Contract Documents or the performance of the Work. However, the term "Claim" shall not include, and the Claims procedures provided under this Article 4, including but not limited to arbitration, shall not apply to the following:

.1 Claims respecting penalties for forfeitures prescribed by statute or regulation which a government agency is specifically authorized to administer, settle, or determine.

.2 Claims respecting personal injury, death, reimbursement, or other compensation arising out of or resulting from liability for personal injury or death.

.3 Claims by University, except as set forth in Articles 4.5, 4.6, and 4.7 of the General Conditions.

.4 Claims respecting stop payment notices.

4.3.2 A Claim arises upon the issuance of a written final decision denying in whole or in part Prime Trade Contractor's Change Order Request pursuant to Articles 4.2.4 and 4.2.5 above.

4.3.3 A Claim must include the following:

.1 A statement that it is a Claim and a request for a decision pursuant to Article 4.5 of the General Conditions.

.2 A detailed factual narrative of events fully describing the nature and circumstances giving rise to the Claim, including but not limited to, necessary dates, locations, and items of work affected.

.3 A certification executed by Prime Trade Contractor, that the claim is filed in good faith. The certification must be made on the Claim Certification form, included in the Exhibits to the Contract. The language of the Claim Certification form may not be modified.

.4 A certification, executed by each Subcontractor claiming not less than 5% of the total monetary amount sought by the claim, that the subcontractor's portion of the claim is filed in good faith. The certification must be made on the Claim Certification form, included in the Exhibits to the Contract. The language of the Claim Certification form may not be modified. Exhibit.

.5 A statement demonstrating that a Change Order Request was timely submitted as required by Article 4.2.3 above.

.6 If a Cost Proposal or declaration was required by Article 4.2.3, a statement demonstrating that the Cost Proposal or the declaration was timely submitted as required by Article 4.2.3.

.7 A detailed justification for any remedy or relief sought by the Claim, including to the extent applicable, the following:

.1 If the Claim involves Extra Work, a detailed cost breakdown of the amounts claimed, including the items specified in Article 7.3.2 of the General Conditions. The cost breakdown must be provided even if the costs claimed have not been incurred when the Claim is submitted. To the extent costs have been incurred when the Claim is submitted, the Claim must include actual cost records (including without limitation, payroll records, material and rental invoices and the like) demonstrating that costs claimed have actually been incurred. To the extent costs have not yet been incurred at the time the Claim is submitted, actual cost records must be submitted on a current basis not less than once a week during any periods costs are incurred. A cost record will be considered current if submitted within 7 days of the date the cost reflected in the record is incurred. At the request of the University's Representative, claimed extra costs may be subject to further verification procedures (such as having an inspector verify the performance of alleged Extra Work on a daily basis). The cost breakdown must include an itemization of costs for i) labor including workers' names, classifications, regular hours and overtime hours worked, dates worked, and other pertinent information; ii) materials stored or incorporated in the work including invoices, purchase orders, location of materials either stored or incorporated into the work, dates materials were transported to the project or incorporated into the work, and other pertinent information; and iii) itemization of machinery and equipment including make, model, serial number, hours of use, dates of use and equipment rental rates of any rented equipment Contract.

.2 If the Claim involves an extension of the Contract Time, written documentation demonstrating the Prime Trade Contractor's entitlement to a time extension under Article 8.4 of the General Conditions, including the specific dates for which a time extension is sought and the specific reasons for entitlement of a time extension. The Master Project Schedule must demonstrate Prime Trade Contractor's entitlement to an adjustment of Contract Time under Article 8.4.

.3 If the Claim involves an adjustment of the Contract Sum for delay, written documentation demonstrating the Prime Trade Contractor's entitlement to such an adjustment under Article 7.3.9 of the General Conditions, including but not limited to, a detailed time impact analysis of the Master Project Schedule. The Master Project Schedule must demonstrate Prime Trade Contractor's entitlement to such an adjustment under Article 7.3.9.

4.4 ASSERTION OF CLAIMS

4.4.1 Claims by Prime Trade Contractor shall be first submitted to University's Representative for decision.

4.4.2 Notwithstanding the making of any Claim or the existence of any dispute regarding any Claim, unless otherwise directed by University's Representative, Prime Trade Contractor shall not cause any delay, cessation, or termination in or of Prime Trade Contractor's performance of the Work, but shall diligently proceed with performance of the Work in accordance with the Contract Documents.

4.4.3 Prime Trade Contractor shall submit a Claim in writing, together with the supporting data specified in Article 4.3.3 above, to University's Representative as soon as possible but not later than 30 days after the date the claim arises under Article 4.3.2 above.

4.4.4 Strict compliance with the requirements of Articles 4.2, 4.3, and 4.4 of the General Conditions are conditions precedent to Prime Trade Contractor's right to an informal conference to meet and confer to resolve a Claim, mediate a Claim, or arbitrate or litigate a Claim. Prime Trade Contractor specifically agrees to assert no Claims via an informal conference, mediation, arbitration or litigation unless there has been strict compliance with Articles 4.2, 4.3, and 4.4. The failure of Prime Trade Contractor to strictly comply with the requirements of Articles 4.2, 4.3 and 4.4 constitutes a failure by Prime Trade Contractor to exhaust its administrative remedies with the University, thereby denying any court or arbitration panel of jurisdiction to adjudicate the Claim.

4.5 DECISION OF UNIVERSITY'S REPRESENTATIVE ON CLAIMS

4.5.1 University's Representative will timely review Claims submitted by Prime Trade Contractor. If University's Representative determines that additional supporting data are necessary to fully evaluate a Claim, University's Representative will request such additional supporting data in writing. Such data shall be furnished no later than 10 days after the date of such request. University's Representative will render a decision promptly and in any case within 30 days after the later of the receipt of the Claim or the deadline for furnishing such additional supporting data; provided that, if the amount of the Claim is in excess of $50,000, the aforesaid 30-day period shall be 45 days. Failure of University's Representative to render a decision by the applicable deadline will be deemed a decision denying the Claim on the date of the deadline, unless, upon receipt of a Claim, Contractor and University mutually agree to extend the time periods provided herein, or unless otherwise extended by law. The decision of University's Representative will be final and binding unless appealed in accordance with Articles 4.5.2, 4.6, and 4.7 below.

The University's Representative's decision on a Claim or dispute will include a written statement both identifying all disputed and undisputed portions of the Claim and substantially including the following:

> "This is a decision under Article 4.5 of the General Conditions of your contract. If you are dissatisfied with the decision, and if you complied with the procedural requirements for asserting claims specified in Article 4 of the General Conditions of your contract, you may have the right to demand in writing an informal conference to meet and confer for settlement of any remaining issues in dispute, following which, if still dissatisfied, you may demand in writing a further resolution via nonbinding mediation, after which you have the right to arbitrate or litigate this decision. If you fail to take appropriate action within 30 days of the date of this decision, the decision shall become final and binding and not subject to further appeal."

4.5.2 If either Contractor or University disputes University's Representative's decision on a Claim, then, within 30 days after the decision of University's Representative on the Claim, or, if no decision has been issued, within 30 days from the date of the applicable deadline in Article 4.5.1 for University Representative to render a decision, such party (the "Disputing Party") must provide written notice demanding an informal conference to meet and confer. University shall schedule the conference within 30 days upon receipt of the notice demanding an informal conference. The parties will attempt in good faith to resolve any controversy or Claim arising out of or relating to this Contract by negotiation at the conference

4.6 MEDIATION

4.6.1 Within 10 business days following the informal conference to meet and confer stated in Article 4.5.2, if the Claim or any portion of the Claim remains in dispute, the University shall provide a written statement identifying the disputed and undisputed portions of the Claim. Within 30 days of receipt of the statement, if either Contractor or University disputes any portion of the Claim, then the Disputing Party must provide written notice to the non-disputing party demanding non-binding mediation. The Contractor and the University shall share the associated costs equally and shall mutually agree to a mediator within 10 business days. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim, with each party bearing the fees and costs of its respective mediator. Mediation shall include, but not be limited to, neutral evaluation, a dispute review board, or other negotiation or evaluation through an independent third party or board. The Contractor and the University may mutually agree to waive any individual mediation in writing and proceed to arbitration or litigation pursuant to this Contract.

4.7 LITIGATION AND ARBITRATION

4.7.1 Either party may provide a written notice of its election to arbitrate or provide written notice of its election to litigate the Claim within 30 days after the mediation pursuant to Article 4.6.1, or, if the parties mutually agreed in writing to waive mediation, within 30 days after the agreement is signed by both parties.

4.7.2 If a notice of election to arbitrate or litigate is not given by either party within 30 days pursuant to Article 4.7.1, University's Representative's decision on the Claim will be final and binding and not subject to appeal or challenge.

4.7.3 If the Disputing Party gives timely notice of its election to arbitrate the University's Representative's decision on a Claim, Disputing Party shall have the right, within 120 days after a Notice of Completion, or a Notice of Cessation, as applicable, is filed for the Contract, to make a demand for arbitration in accordance with Article 4.7. Failure to perfect a Claim for which a timely election to arbitrate has been made by the timely filing of a demand for arbitration and timely payment of all applicable and required fees to the American Arbitration Association (“AAA”) shall result in the University’s Representative’s decision on said Claim becoming final and binding and not subject to appeal or challenge. If the Disputing Party makes a timely demand for arbitration, and the amount of the Claim in question, when combined with all other Claims, if any, which are the subject of previously filed demands for arbitration that have not been resolved by settlement or arbitration award, is $100,000 or more, then the other party may elect to litigate all such Claims by filing a written notice with the AAA within 30 days after its receipt of notice from the AAA of the Disputing Party's demand for arbitration of the Claim that raises the total amount of Claims subject to arbitration to $100,000 or more. If the other party fails to give notice of its election to litigate within such 30-day period, it shall be deemed to have consented to arbitration and waived the right to litigate. If after commencement of arbitration the amount of unresolved Claims in arbitration are allowed to be increased to $100,000 or more, through an AAA-allowed amendment or otherwise, either party may elect to litigate within 30 days following the date that the electing party first receives written notification from the AAA that total Claims in arbitration equal or exceed $100,000. If neither party gives notice of its election to litigate within such 30-day period as applicable, then both parties shall be deemed to have consented to arbitration and waived the right to litigate.

4.7.4 A demand for arbitration pursuant to Article 4.7.3 above shall include a copy of the Claim presented to University’s Representative pursuant to Article 4.4 above, a copy of the decision of University's Representative pursuant to Article 4.5, if any, a copy of the University’s written statement identifying the portion of the Claim that remained in dispute following the informal conference pursuant to Article 4.6.1, and a summary of the remaining portions of the Claim in dispute. The demand shall state the amount in controversy, if any, and state the remedy sought. The demand shall identify the University’s Responsible Administrator as the representative of the responding party and the Office of the General Counsel as counsel for the responding party. The demand shall be filed with the AAA and shall not be deemed to have been made until all applicable fees have been paid to the AAA

by the demanding party. Copies of the demand and attachments shall be sent to University's Responsible Administrator as the representative of the responding party and the University's Office of General Counsel as attorney for the responding party, at the addresses set forth in the Project Directory, at the time the demand for arbitration is initiated with the AAA.

4.7.5 Except as modified by this Article 4.7, arbitration shall be initiated and conducted in accordance with the Construction Industry Arbitration Rules of the AAA then in effect. The following additional modifications shall be made to the aforesaid AAA rules:

.1 Civil discovery shall be permitted for the production of documents and taking of depositions. Other discovery may be permitted at the discretion of the arbitrator. All disputes regarding discovery shall be decided by the arbitrator.

.2 University's Representative and/or University's consultants, shall if required by agreement with University, upon demand by University join in and be bound by the Arbitration. University's Representative and University's consultants will have the same rights in any arbitration proceeding as are afforded by the AAA rules to Prime Trade Contractor and University.

.3 Prime Trade Contractor's sureties shall be bound by any arbitration award and may join in any arbitration proceeding.

.4 Except as provided in Articles 4.7.5.2. and 4.7.5.3 above, no Subcontractor or other person shall have a right or obligation to join in or be a party to any arbitration proceeding provided for in this Article 4 either directly, by joinder, by consolidation or actions, by counterclaim or cross claim, or otherwise without the express written consent of University, Prime Trade Contractor, and the joining party.

.5 If more than one demand for arbitration is made by a party with respect to Claims referred to University's Representative, all such Claims shall be consolidated into a single arbitration unless the parties otherwise agree in writing.

.6 If total Claims are less than $50,000, AAA expedited procedures as modified by this Article 4 shall apply. If total Claims are between $50,000 and $100,000 they shall be heard by a single arbitrator who shall be an attorney. If total Claims are in excess of $100,000 and are submitted to arbitration, either by agreement or by failure to elect litigation the controversy shall be heard by a panel of three arbitrators, one of which shall be an attorney.

.7 No arbitrator shall be appointed and no discovery may be commended prior to the date of Final Completion unless University and Prime Trade Contractor otherwise agree.

.8 The exclusive forum for determining arbitrability shall be the Superior Court of the State of California. The AAA shall not submit to any arbitrator any matter concerning the arbitrability of the dispute if the arbitrability is contested.

.9 If the expedited procedures of the AAA are applicable, the AAA shall submit simultaneously to each party an identical list of 7 proposed arbitrators drawn from the National Panel of Commercial Arbitrators, and each party may strike 3 names from the list on a peremptory basis and return the list to the AAA within 10 days from the date of receipt.

.10 Except as provided herein, the arbitration shall be conducted and enforced under California law, including the California Arbitration Act (California Code of Civil Procedure section 1280 and following). The Federal Arbitration Act shall not apply to the arbitration.

4.7.6 Unless University and Prime Trade Contractor otherwise agree in writing, the arbitration decision shall be binding upon the parties, made under and in accordance with the laws of the State of California, supported by substantial evidence, and in writing. If the total of all Claims or cross Claims submitted to arbitration is in excess of $50,000, the award shall contain the basis for the decision, findings of fact, and conclusions of law. Any arbitration

award shall be subject to confirmation, vacation, or correction under the procedures and on the grounds specified in the California Code of Civil Procedure including without limitation Section 1296. The expenses and fees of the arbitrators and the administrative fees of the AAA shall be divided among the parties equally. Each party shall pay its own counsel fees, witness fees, and other expenses incurred for its own benefit.

4.7.7 University may, but is not required, to assert as a counterclaim any matter arising out of the claims asserted by Prime Trade Contractor in the arbitration. University's failure to assert any such counterclaim in an arbitration shall be without prejudice to the University's right to assert the counterclaim in litigation or other proceeding.

4.7.8 Any litigation shall be filed in the Superior Court of the State of California for the County in which the contract was to be performed.

4.8 WAIVER

4.8.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 4 of the General Conditions in connection with any Claim shall not constitute a waiver of, and shall not preclude the University or University's Representative from enforcing such requirements in connection with any other Claims.

4.8.2 The Prime Trade Contractor agrees and understands that no oral approval, either express or implied, of any Claim shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 5

SUBCONTRACTORS

5.1 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

5.1.1 Unless otherwise stated in the Contract Documents, Prime Trade Contractor shall submit in writing, prior to entering into subcontract agreements, the names and addresses of all Subcontractors proposed for the Work that were not previously listed in Prime Trade Contractor's Bid.

5.1.2 Any Subcontractor may be disqualified if University or University's Representative determines that such Subcontractor fails to meet the requirements of the Contract Documents or for any other reason.

5.1.3 In accordance with the Subletting and Subcontracting Fair Practices Act, nothing herein shall be deemed to entitle Prime Trade Contractor, without the approval of University, to substitute other subcontractors for those named in Prime Trade Contractor's List of Subcontractors and List of Changes in Subcontractors Due to Alternates contained in the completed Bid Form; and, except with such approval, no such substitution shall be made.

5.1.4 Except as hereinafter provided, any increase in the cost of the Work resulting from the replacement or substitution of a Subcontractor, as required by University or University's Representative pursuant to Article 5.1.1 above shall be borne solely by Prime Trade Contractor and Prime Trade Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time on account of such replacement or substitution.

5.2 SUBCONTRACTUAL RELATIONS

5.2.1 Any part of the Work performed for Prime Trade Contractor by a first-tier Subcontractor shall be pursuant to a written subcontract. Each such subcontract shall require the Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to Prime Trade Contractor by the terms of the Contract Documents, to assume toward Prime Trade Contractor all the obligations and responsibilities which Prime Trade Contractor assumes towards University by the Contract Documents, and to perform such portion of the Work in accordance with the Contract Documents. Each such subcontract shall preserve and protect the rights of University under the

Contract Documents, with respect to the Work to be performed by Subcontractor, so that subcontracting thereof will not prejudice such rights. Prime Trade Contractor shall cause each such subcontract to expressly include the following requirements:

.1 Subcontractor waives all rights that Subcontractor may have against University for damages caused by fire or other perils covered by builder's risk property insurance carried by Prime Trade Contractor or University, except for such rights Subcontractor may have to the proceeds of such insurance held by University under Article 11 of the General Conditions.

.2 University and entities and agencies designated by University will have access to and the right to audit and the right to copy at University's cost all of Subcontractor's books, records, contracts, correspondence, instructions, drawings, receipts, vouchers, purchase orders, and memoranda relating to the Work. Subcontractor shall preserve all such records and other items for a period of at least 3 years after Final Completion.

.3 Subcontractor recognizes the rights of University under Article 5.3, Contingent Assignment of Subcontracts, below and agrees, upon notice from University that University has elected to accept said assignment and to retain Subcontractor pursuant to the terms of the subcontract, to complete the unperformed obligations under the subcontract and, if requested by University, to execute a written agreement confirming that Subcontractor is bound to University under the terms of the subcontract.

5.2.2 Upon the request of University, Prime Trade Contractor shall promptly furnish to University a true, complete, and executed copy of any subcontract.

5.2.3 Nothing contained in the Contract Documents shall create any contractual relationship between any Subcontractor and University, except when, and only to the extent that, University elects to accept the assignment of the subcontract with such Subcontractor pursuant to Article 5.3 below.

5.3 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

5.3.1 Prime Trade Contractor hereby assigns to University all its interest in first-tier subcontracts now or hereafter entered into by Prime Trade Contractor for performance of any part of the Work. The assignment will be effective upon acceptance by University in writing and only as to those subcontracts which University designates in writing. University may accept said assignment at any time during the course of the Work and prior to Final Completion in the event of a suspension or termination of Prime Trade Contractor's rights under the Contract Documents. Such assignment is part of the consideration to University for entering into the Contract with Prime Trade Contractor and may not be withdrawn prior to Final Completion.

ARTICLE 6

CONSTRUCTION BY UNIVERSITY OR BY SEPARATE CONTRACTORS

6.1 UNIVERSITY'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

6.1.1 University reserves the right to award separate contracts for, or to perform with its own forces, construction or operations related to the Work or other construction or operations at or affecting the Project site, including portions of the Work which have been deleted by Change Order. Prime Trade Contractor shall cooperate with University's forces and Separate Contractors.

6.1.2 University will provide coordination of the activities of University's forces and of each Separate Contractor with the Work of Prime Trade Contractor. Prime Trade Contractor shall participate with University and Separate Contractors in joint review of construction schedules and Project requirements when directed to do so.

6.1.3 The Project, of which this Contract is a part, will include other contracts for work to be performed and work to be performed by the University on the same site. By entering into this Contract, Prime Trade Contractor acknowledges that University has the right to enter into such other contracts and to perform work, and that the work of said contracts and University may (i) be in close proximity to and/or performed contemporaneously with the work of this Contract, and (ii) result in delays in or disruptions to Prime Trade Contractor's Work. Prime Trade Contractor further agrees as follows:

.1 The University shall afford Prime Trade Contractor, Separate Contractors or University forces reasonable opportunity for the introduction and storage of their materials and the execution of their work. Prime Trade Contractor shall properly connect and coordinate its construction and operations with the construction and operations of Separate Contractors and University forces, as required by the Contract Documents.

.2 Prime Trade Contractor shall cooperate with Separate Contractors and University on the project site and will do nothing to delay, hinder, disrupt, or interfere with the work of Separate Contractors, or University. Prime Trade Contractor shall coordinate its work with the work of any Separate Contractor and agrees to attend any coordination meetings scheduled for this purpose by the University Representative. Any dispute between the Prime Trade Contractor and any Separate Contractor over how the work of the various trades should be coordinated, shall be promptly submitted by Prime Trade Contractor to the University Representative. Prime Trade Contractor agrees to cooperate with the development of, and to be bound by, any reasonable coordination plan directed by University Representative to address the dispute, even if Prime Trade Contractor does not agree with the coordination plan so developed. Prime Trade Contractor agrees that if its work is delayed, hindered, disrupted or interfered with by a Separate Contractor to the extent such delays, hindrances, disruptions, and interferences result in Prime Trade Contractor working beyond the Contract Time, through no fault of the Prime Trade Contractor, the Prime Trade Contract shall be subject to a time extension, but no compensation from the University, provided the Prime Trade Contractor complies with the requirements of the Prime Trade Contract for seeking a time extension, including without limitation, the requirements set forth in Articles 4, 7 and 8 of the General Conditions.

.3 Prime Trade Contractor agrees that its sole remedy for damage or loss, including delay damages, suffered as a result of actions by a Separate Contractor, other than that specified in Article 6.1.3.2 above, shall be against such Separate Contractor, their officers, agents, employees, consultants, subcontractors and, if available, surety bonds. Prime Contractor further agrees to indemnify University, University Representative, their officers, agents, employees, consultants, or subcontractors for any damage or loss by a Separate Contractor allegedly caused by with the work of the Prime Contractor or Separate Contractor except as provided in Article 6.1.3.2 above.

6.2 MUTUAL RESPONSIBILITY

6.2.1 Prime Trade Contractor shall afford University and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities. Prime Trade Contractor shall connect, schedule, and coordinate its construction and operations with the construction and operations of University and Separate Contractors as required by the Contract Documents.

6.2.2 If a portion of the Work is dependent upon the proper execution or results of other construction or operations by University or Separate Contractors, Prime Trade Contractor shall inspect such other construction or operations before proceeding with that portion of the Work. Prime Trade Contractor shall promptly report to University's Representative apparent discrepancies or defects which render the other construction or operations unsuitable to receive the Work. Unless otherwise directed by University's Representative, Prime Trade Contractor shall not proceed with the portion of the Work affected until apparent discrepancies or defects have been corrected. Failure of Prime Trade Contractor to so report within a reasonable time after discovering such discrepancies or defects shall constitute an acknowledgment that the other construction or operations by University or Separate Contractors is suitable to receive the Work, except as to defects not then reasonably discoverable.

6.3 UNIVERSITY'S RIGHT TO CLEAN UP

6.3.1 If a dispute arises between Prime Trade Contractor and Separate Contractors as to the responsibility under their respective contracts for maintaining the Project site and surrounding areas free from waste materials and rubbish, University may clean up and allocate the cost between those firms it deems to be responsible.

ARTICLE 7

CHANGES IN THE WORK

7.1 CHANGES

7.1.1 University may, from time to time, order or authorize additions, deletions, and other changes in the Work by Change Order or Field Order without invalidating the Contract and without notice to sureties. Absence of such notice shall not relieve such sureties of any of their obligations to University.

7.1.2 Prime Trade Contractor may request a Change Order under the procedures specified in Article 4.2 of the General Conditions.

7.1.3 A Field Order may be issued by University, does not require the agreement of Prime Trade Contractor, and shall be valid with or without the signature of Prime Trade Contractor.

7.1.4 Prime Trade Contractor shall proceed promptly with any changes in the Work, unless otherwise provided in the relevant Change Order or Field Order.

7.2 DEFINITIONS

7.2.1 A Change Order is a Contract Document (as shown in the Exhibits) which has been signed by both University and Prime Trade Contractor, and states their agreement upon all of the following:

.1 A change in the Work, if any.

.2 The amount of an adjustment of the Contract Sum, if any.

.3 The amount of an adjustment of the Contract Time, if any.

.4 A modification to any other Contract term or condition.

7.2.2 A Unilateral Change Order may be issued by University without Prime Trade Contractor's signature, where the University determines that a change in the Work requires an adjustment of the Contract Sum or Contract Time, even though no agreement has been reached between University and Prime Trade Contractor with regard to such change in the Work.

7.2.3 A Field Order (as shown in the Exhibits) is a Contract Document issued by the University that orders the Prime Trade Contractor to perform Work. A Field Order may, but need not, constitute a change in the Work and may, but need not, entitle Prime Trade Contractor to an adjustment of the Contract Sum or Contract Time.

7.3 CHANGE ORDER PROCEDURES

7.3.1 Prime Trade Contractor shall provide a Change Order Request and Cost Proposal pursuant to Article 4.2 and this Article 7.3 of the General Conditions. Adjustments of the Contract Sum resulting from Extra Work and Deductive Work shall be determined using one of the methods described in this Article 7.3. Adjustments of the Contract Time shall be subject to the provisions in Article 8 of the General Conditions. Prime Trade Contractor’s obligation to provide Cost Proposals shall be subject to the following:

.1 The obligation of Prime Trade Contractor to provide Cost Proposals is not Extra Work, and shall not entitle the Prime Trade Contractor to an adjustment of the Contract Sum or Contract Time.

.2 The failure of Prime Trade Contractor to timely provide a Cost Proposal pursuant to Article 4.2 and this Article 7.3.1 is a material breach of the Contract. Prime Trade Contractor shall be responsible for any delay in implementing a change for which Prime Trade Contractor failed to timely provide a Cost Proposal consistent with the requirements of Article 4.2 and this Article 7.3.1.

7.3.2 The term "Cost of Extra Work" as used in this Article 7.3 shall mean actual costs incurred or to be incurred by Prime Trade Contractor and each Subcontractor regardless of tier involved, to the extent not otherwise disallowed under Article 7.3.3, and shall be limited to the following (to the extent the Prime Trade Contractor demonstrates that the costs are both reasonable were actually incurred, if such costs have been incurred):

.1 Straight-time wages or salaries for employees employed at the Project site, or at fabrication sites off the Project site, in the direct performance of the Extra Work.

.2 Fringe Benefits and Payroll Taxes for employees employed at the Project site, or at fabrication sites off the Project site, in the direct performance of the Extra Work.

.3 Overtime wages or salaries, specifically authorized in writing by University's Representative, for employees employed at the Project site, or at fabrication sites off the Project site, in the direct performance of the Extra Work.

.4 Fringe Benefits and Payroll Taxes for overtime Work specifically authorized in writing by University's Representative, for employees employed at the Project site, or at fabrication sites off the Project site, in the direct performance of the Extra Work.

.5 Costs of materials and consumable items which are furnished and incorporated into the Extra Work, as approved by University's Representative. Such costs shall be charged at the lowest price available to the Prime Trade Contractor but in no event shall such costs exceed competitive costs obtainable from other subcontractors, suppliers, manufacturers, and distributors in the area of the Project site. All discounts, rebates, and refunds and all returns from sale of surplus materials and consumable items shall accrue to University and Prime Trade Contractor shall make provisions so that they may be obtained.

.6 Sales taxes on the costs of materials and consumable items which are incorporated into and used in the performance of the Extra Work pursuant to Article 7.3.2.5 above.

.7 Rental charges for necessary machinery and equipment, whether owned or hired, as authorized in writing by University's Representative, exclusive of hand tools, used directly in the performance of the Extra Work. Such rental charges shall not exceed the current Equipment Rental Rates published by the California Department of Transportation for the area in which the work is performed. Such rental rates are found at *http://www.dot.ca.gov/hq/construc/equipmnt.html* . Prime Trade Contractor shall attach a copy of said schedule to the Cost Proposal. The charges for any machinery and equipment shall cease when the use thereof is no longer necessary for the Extra Work.

.8 Additional costs of royalties and permits due to the performance of the Extra Work.

.9 The cost for Insurance and Bonds shall not exceed 2% of items .1 through .8 above.

University and Prime Trade Contractor may agree upon rates to be charged for any of the items listed in this Article 7.3.2. Such agreed upon rates shall be subject to audit pursuant to Article 15.7 of the General Conditions. Prime Trade Contractor shall promptly refund to University any amounts (including associated mark-ups) in excess of the actual costs of such items.

7.3.3 Cost of Extra Work <u>shall not include</u> any of the following:

.1 Supervision

.2 Superintendent(s)

.3 Assistant Superintendent(s)

.4 Project Engineer(s)

.5 Project Manager(s)

.6 Scheduler(s)

.7 Estimator(s)

.8 Drafting or Detailing

.9 Small tools (Replacement value does not exceed $300)

.10 Office expenses including staff, materials and supplies

.11 On-site or off-site trailer and storage rental and expenses

.12 Site fencing

.13 Utilities including gas, electric, sewer, water, telephone, facsimile, copier equipment

.14 Data processing personnel and equipment

.15 Federal, state, or local business income and franchise taxes

.16 Overhead and Profit

.17 Costs and expenses of any kind or item not specifically and expressly included in Article 7.3.2 above

7.3.4 The term “Prime Trade Contractor Fee” shall mean the full amount of compensation, both direct and indirect (including without limitation all overhead and profit), to be paid to Prime Trade Contractor for its own Work and the Work of all Subcontractors, for all costs and expenses not included in the Cost of Extra Work, whether or not such costs and expenses are specifically referred to in Article 7.3.3 above. The Prime Trade Contractor Fee shall not be compounded. The Prime Trade Contractor Fee shall be computed as follows:

.1 Fifteen percent (15%) of the cost of that portion of the Extra Work to be performed by the prime Prime Trade Contractor with its own forces.

.2 Fifteen percent (15%) of the cost of that portion of the Work to be performed by a Subcontractor with its own forces, plus 5% for the prime Prime Trade Contractor. Total combined Prime Trade Contractor and Subcontractor fee shall not exceed 20%.

.3 Fifteen percent (15%) of the cost of that portion of the Work to be performed by a sub-subcontractor with its own forces, or any lower tier of Subcontractor, plus 5% for the Subcontractor, plus 5% for the prime Prime Trade Contractor. Total combined Prime Trade Contractor, Subcontractor and all sub-subcontractor fee shall not exceed 25%.

7.3.5 Compensation for Extra Work shall be computed on the basis of one or more of the following:

.1 Where the Work involved is covered by Unit Prices contained in the Contract Documents, by application of the Unit prices stated in the Contract Documents to the quantities of the items involved.

.2 Where Unit Prices are not applicable, a mutually agreed upon lump sum supported by a Cost Proposal pursuant to 7.3.1.

.3 Where Prime Trade Contractor and University cannot agree upon a lump sum, by Cost of Extra Work plus Prime Trade Contractor Fee applicable to such Extra Work.

7.3.6 As a condition to Prime Trade Contractor's right to an adjustment of the Contract Sum, pursuant to Article 7.3.5.3 above, Prime Trade Contractor must keep daily detailed and accurate records itemizing each element of

cost and shall provide substantiating records and documentation, including time cards and invoices. Such records and documentation shall be submitted to and approved by University's Representative on a daily basis.

7.3.7 For Work to be deleted by Change Order, the reduction of the Contract Sum shall be computed on the basis of one or more of the following:

.1 Unit Prices stated in the Contract Documents.

.2 Where Unit Prices are not applicable, a lump sum agreed upon by University and Prime Trade Contractor, based upon the actual costs which would have been incurred in performing the deleted portions of the Work as calculated in accordance with Articles 7.3.2 and 7.3.3 above, supported by a Cost Proposal pursuant to Article 7.3.1 above.

7.3.8 If any one Change involves both Extra Work and Deleted Work in the same portion of the Work, a Prime Trade Contractor fee will not be allowed if the deductive cost exceeds the additive cost. If the additive cost exceeds the deductive cost, a Prime Trade Contractor Fee will be allowed only on the difference between the two amounts.

7.3.9 The Contract Sum will be adjusted for a delay if, and only if, Prime Trade Contractor demonstrates that all of the following five conditions are met:

.1 Condition Number One: The delay results in an extension of the Contract Time pursuant to Article 8.4.1 of the General Conditions.

.2 Condition Number Two: The delay is caused solely by one or more of the following:

.1 An error or omission in the Contract Documents; or

.2 The University's decision to change the scope of the Work, where such decision is not the result of any default or misconduct of the Prime Trade Contractor; or

.3 The University's decision to suspend the Work, where such decision is not the result of any default or misconduct of the Prime Trade Contractor; or

.4 The failure of the University or the University's Representative to timely perform any contract obligation where the failure to so perform is not the result of any default or misconduct of the Prime Trade Contractor; or

.5 A materially differing site condition pursuant to Article 3.17 of the General Conditions.

.3 Condition Number Three: The delay is not concurrent with a delay that is:

.1 Critical under Article 8.4.1.2 of the General Conditions; and

.2 Caused by an event not listed in Article 7.3.9.2 above.

.4 Condition Number Four: The delay is not caused, in whole or in part, by an event not listed in Article 7.3.9.2 above.

.5 Condition Number Five: The delay is not caused, in whole or in part, by the default or misconduct of a Separate Contractor.

7.3.10 For each day of delay that meets all five conditions prescribed in above 7.3.9 the Contract Sum will be adjusted by the daily rate included in the Agreement and specifically identified as the rate to be paid to Prime Trade Contractor for Compensable Delays. Pursuant to Article 9.7.4 of the General Conditions, said daily rate shall not apply to delays occurring after Substantial Completion.

7.3.11 Except as provided in Articles 7 and 8 of the General Conditions, Prime Trade Contractor shall have no claim for damage or compensation for any delay, interruption, hindrance, or disruption.

7.3.12 If for any reason one or more of the conditions prescribed in Article 7.3.9 above is held legally unenforceable, the remaining conditions must be met as a condition to obtaining an adjustment of the Contract Time under Article 7.3.10 above.

7.4 FIELD ORDERS

7.4.1 Field Orders issued by the University Representative shall be subject to the following:

.1 A Field Order may state that it does or does not constitute a change in the Work.

.2 If the Field Order states that it does not constitute a change in the Work and the Prime Trade Contractor asserts that the Field Order constitutes a change in the Work, in order to obtain an adjustment of the Contract Sum or Contract Time for the Work encompassed by the Field Order, Prime Trade Contractor must follow all procedures set forth in Article 4 of the General Conditions, starting with the requirement of submitting a timely Change Order Request within 7 days of Prime Trade Contractor's receipt of the Field Order; failure to strictly follow those procedures is a bar to any Claim for an adjustment of the Contract Sum or Contract Time arising from performance of the Work described in the Field Order.

.3 If the Field Order states that it does constitute a change in the Work, the Work described in the Field Order shall be considered Extra Work and the Prime Trade Contractor shall be entitled to an adjustment of the Contract Sum and Contract Time, calculated under and subject to Prime Trade Contractor's compliance with the procedures for verifying and substantiating costs and delays in Articles 7 and 8 of the General Conditions.

.4 In addition, if the Field Order states that it does constitute a change in the Work, the Field Order may or may not contain University's estimate of adjustment of Contract Sum and/or Contract Time. If the Field Order contains an estimate of adjustment of Contract Sum or Contract Time, the Field Order is subject to the following:

.1 The Prime Trade Contractor shall not exceed the University's estimate of adjustment to Contract Sum or Contract Time without written authorization by University's Representative.

.2 If the Prime Trade Contractor asserts that the change in the Work encompassed by the Field Order may entitle Prime Trade Contractor to an adjustment of Contract Sum or Contract Time in excess of the University's estimate, in order not to be bound by University's estimate Prime Trade Contractor must follow all procedures set forth in Article 4 of the General Conditions, starting with the requirement of submitting a timely Change Order Request within 7 days of Prime Trade Contractor's receipt of the Field Order; failure to strictly follow those procedures is a bar to any Claim for an adjustment of the Contract Sum or Contract Time, in excess of the University's estimate, arising from performance of the Work described in the Field Order.

7.4.2 Upon receipt of a Field Order, Prime Trade Contractor shall promptly proceed to perform the Work as ordered in the Field Order notwithstanding any disagreement by the Prime Trade Contractor concerning whether the Work is extra.

7.5 VARIATION IN QUANTITY OF UNIT PRICE WORK

7.5.1 University has the right to increase or decrease the quantity of any Unit price item for which an estimated quantity is stated in the Bid Form.

7.6 WAIVER

7.6.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 7, including without limitation the requirements in Articles 7.3.6, 7.3.8, 7.3.9, 7.3.10, 7.3.11, or 7.3.12 above in connection with any adjustment of the Contract Sum, will not constitute a waiver of, and will not preclude the

University or University's Representative from enforcing, such requirements in connection with any other adjustments of the Contract Sum.

7.6.2 The Prime Trade Contractor agrees and understands that no oral approval, either express or implied, of any adjustment of the Contract Sum by University or its agents shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 8

CONTRACT TIME

8.1 COMMENCEMENT OF THE WORK

8.1.1 The date of commencement of the Work shall be set forth in the Notice To Proceed. The date of commencement of the Work shall not be postponed by the failure of Prime Trade Contractor, Subcontractors, or of persons or firms for whom Prime Trade Contractor is responsible, to act.

8.2 PROGRESS AND COMPLETION

8.2.1 By signing the Agreement:

.1 Prime Trade Contractor represents to University that the Contract Time is reasonable for performing the Work and that Prime Trade Contractor is able to perform the Work within the Contract Time.

.2 Prime Trade Contractor represents to the University that the time for completion of the Project as shown in the Preliminary Master Project Schedule is reasonable.

.3 Prime Trade Contractor agrees that University is purchasing the right to have the Prime Trade Contractor fully mobilized on the site from the earliest date for commencement of the Work shown on the Preliminary Master Project Schedule to the date shown for full completion of the Project as shown in the bidding documents.

.4 Prime Trade Contractor agrees that the University is purchasing the right to have Prime Trade Contractor work on the Project site shared by the Prime Trade Contractor and Separate Contractors. Prime Trade Contractor recognizes that as a result of working at a shared Project site there will be a loss of productivity and disruption commensurate with a project of the type, size and complexity of the Project. Prime Trade Contractor agrees that the Contract Sum includes full compensation for such loss of productivity and disruption.

8.2.2 Prime Trade Contractor shall not, except by agreement or instruction of University in writing, commence operations on the Project site or elsewhere prior to the effective date of insurance required by Article 11 of the General Conditions to be furnished by Prime Trade Contractor. The dates of commencement and completion of the Work shall not be changed by the effective date of such insurance.

8.2.3 Prime Trade Contractor shall proceed expeditiously with adequate forces and shall achieve full completion of the Work within the Contract Time. If University's Representative determines and notifies Prime Trade Contractor that Prime Trade Contractor's progress is such that Prime Trade Contractor will not achieve full completion of the Work within the Contract Time, Prime Trade Contractor shall immediately and at no additional cost to University, take all measures necessary, including working such overtime, additional shifts, Sundays, or holidays as may be required to ensure that the entire Project is completed within the Contract Time. Upon receipt of such notice from University's representative, Prime Trade Contractor shall immediately notify University's Representative of all measures to be taken to ensure full Completion of the Work within the Contract Time. Prime Trade Contractor shall reimburse University for any extra costs or expenses (including the reasonable value of any services provided by University's employees) incurred by University as the result of such measures.

8.3 DELAY

8.3.1 Except and only to the extent provided otherwise in Articles 7 and 8 of the General Conditions, by signing the Agreement, Prime Trade Contractor agrees:

.1 To bear the risk of delays to the Work; and

.2 That Prime Trade Contractor's bid for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of delays to the Work, Prime Trade Contractor understands that, except and only to the extent provided otherwise in Articles 7 and 8, the occurrence of events that delay the Work shall not excuse Prime Trade Contractor from its obligation to achieve completion of the Work within the Contract Time, and shall not entitle the Prime Trade Contractor to an adjustment of the Contract Sum.

8.4 ADJUSTMENT OF THE CONTRACT TIME FOR DELAY

8.4.1 Subject to Article 8.4.2 below, the Contract Time will be extended for each day of delay for which Prime Trade Contractor demonstrates that all of the following seven conditions have been met; a time extension will not be granted for any day of delay for which Prime Trade Contractor fails to demonstrate compliance with the seven conditions:

.1 Condition Number One: At the time that the event causing the delay commences, the Prime Trade Contractor has complied with all Contract requirements for maintaining, submitting, and updating schedule information as required by the Contract Documents.

.2 Condition Number Two: The delay is critical. A delay is critical if and only to the extent it delays a work activity that cannot be delayed without delaying completion of the entire Project beyond the Contract Time. Under this Article 8.4.1.2, if the Master Project Schedule shows completion of the entire Project before expiration of the Contract Time, a delay is critical if and only to the extent the delay pushes completion of the entire Project to a date that is beyond the Contract Time.

.3 Condition Number Three: The delay is supported by the Master Project Schedule current at the commencement of the event giving rise to the delay. A delay is supported only to the extent the Master Project Schedule corroborates that it causes a delay to completion of the entire Project beyond the contractually specified date for full completion because of its effect on the operation referred to in Article 8.4.1.2 above. The requirement that a delay be supported will be excused if the event causing the delay commences before approval of the Prime Trade Contractor Schedule, provided that the absence of an approved Prime Trade Contractor Schedule is not due to the Prime Trade Contractor's failure to timely submit an acceptable Prime Trade Contractor Schedule.

.4 Condition Number Four: Within 7 days of the date the Prime Trade Contractor discovers or reasonably should discover an act, error, omission or unforeseen condition causing the delay, (even if the Prime Trade Contractor has not been delayed when the Prime Trade Contractor discovers or reasonably should discover the act, error, omission or unforeseen condition giving rise to the delay) the Prime Trade Contractor submits both a timely and complete Change Order Request that meets the requirements of Article 4.2 of the General Conditions.

.5 Condition Number Five: The delay is not caused by:

.1 A concealed, unforeseen or unknown condition or event except for a materially differing site condition pursuant to Article 3.17 of the General Conditions; or

.2 The financial inability, misconduct or default of the Prime Trade Contractor, a Subcontractor or supplier; or

.3 The unavailability of materials or parts.

.6 Condition Number Six: The delay is caused by:

.1 Fire; or

.2 Strikes, boycotts, or like obstructive actions by labor organizations; or

.3 Acts of God (As used herein, "Acts of God" shall include only earthquakes in excess of a magnitude of 3.5 on the Richter Scale and tidal waves); or

.4 A materially differing site condition pursuant to Article 3.17 of the General Conditions; or

.5 An error or omission in the Contract Documents; or

.6 The University's decision to change the scope of the Work, where such decision is not the result of any default or misconduct of the Prime Trade Contractor; or

.7 The University's decision to suspend the Work, where such decision is not the result of any default or misconduct of the Prime Trade Contractor; or

.8 The failure of the University or the University's representative to timely perform any Contract obligation unless such failure is due to Prime Trade Contractor's default or misconduct; or

.9 The failure of a Separate Contractor to adhere to the Master Project Schedule; or

.10 The failure of a Separate Contractor to timely perform any contract obligation due to its default or misconduct or

.11 "Rainy weather," but only for such days of rain that are in excess of the number of days specified in the Supplementary Conditions. In order for a day to be considered a day of rainy weather for the purpose of determining whether Prime Trade Contractor is entitled to an adjustment in Contract Time, both of the following conditions must be met:

.1 The day must be a day in which, as a result of rain, no critical path work is performed by Prime Trade Contractor or a Separate Contractor; and

.2 The day must be identified in the Master Project Schedule as a scheduled work day.

.7 Condition Number Seven: Prime Trade Contractor has taken all reasonable measures to avoid and minimize the delay and, notwithstanding such measures, the delay occurred.

8.4.2 If and only if a delay meets all seven conditions prescribed in Article 8.4.1 above, then a time extension will be granted for each day that completion of the entire Project is delayed beyond the Contract Time, subject to the following:

.1 When two or more delays (each of which meet all seven conditions prescribed in Article 8.4.1) occur concurrently on the same day, and each such concurrent delay by itself without consideration of the other delays would be critical, then all such concurrent delays shall be considered critical. For the purpose of determining whether and to what extent the Contract Time should be adjusted pursuant to this Article 8.4.2, such concurrent critical delays shall be treated as a single delay for each such day.

.2 Prime Trade Contractor shall be entitled to a time extension for a day of delay that meets all seven requirements of Article 8.4.1 if the delay is concurrent with a delay that does not meet all seven conditions of Article 8.4.1.

8.5 COMPENSATION FOR DELAY

8.5.1 To the maximum extent allowed by law, any adjustment of the Contract Sum as the result of delays shall be limited to the amounts specified in Article 7 of the General Conditions.

8.5.2 By signing the Agreement, the parties agree that the University is buying the right to do any or all of the following, which are reasonable and within the contemplation of the parties:

.1 To order changes in the Work, regardless of the extent and number of changes, including without limitation:

.1 Changes to correct errors or omissions, if any, in the Contract Documents.

.2 Changes resulting from the University's decision to change the scope of the Work subsequent to execution of the Contract.

.3 Changes due to unforeseen conditions.

.2 To suspend the Work or any part thereof.

.3 To delay the work, including without limitation, delays resulting from the failure of the University or the University's Representative to timely perform any Contract obligation and delays for University's convenience.

8.6 WAIVER

8.6.1 A waiver of or failure by University or University's Representative to enforce any requirement in this Article 8, including without limitation the requirements in Article 8.4 above, in connection with any or all past delays shall not constitute a waiver of, and shall not preclude the University or University's Representative from enforcing, such requirements in connection with any present or future delays.

8.6.2 Prime Trade Contractor agrees and understands that no oral approval, either express or implied, of any time extension by University or its agents shall be binding upon University unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 9

PAYMENTS AND COMPLETION

9.1 COST BREAKDOWN

9.1.1 Within 10 days after receipt of the Notice of Selection as the apparent lowest responsible Bidder, and with the Agreement, Prime Trade Contractor shall submit to University's Representative a Cost Breakdown of the Contract Sum in the form contained in the Exhibits. The Cost Breakdown shall itemize as separate line items the cost of each Work Activity and all associated costs, including but not limited to warranties, as-built documents, overhead expenses, and the total allowance for profit. Insurance and bonds shall each be listed as separate line items. The total of all line items shall equal the Contract Sum. The Cost Breakdown, when approved by the University's Representative, shall become the basis for determining the cost of Work performed for Prime Trade Contractor's Applications for Payment.

9.2 PROGRESS PAYMENT

9.2.1 University agrees to pay monthly to Prime Trade Contractor, subject to Article 9.4.3 below, an amount equal to 95% of the sum of the following:

.1 Cost of the Work in permanent place as of the date of the Prime Trade Contractor’s Application for Payment

.2 Plus cost of materials not yet incorporated in the Work, subject to Article 9.3.5 below.

.3 Less amounts previously paid.

Under this Article 9.2.1, University may, but is not required, to pay Prime Trade Contractor more frequently than monthly.

9.2.2 After Substantial Completion and subject to Article 9.4.3 below, University will make any of the remaining progress payments in full.

9.3 APPLICATION FOR PAYMENT

9.3.1 On or before the 10th day of the month or such other date as is established by the Contract Documents, Prime Trade Contractor shall submit to University's Representative an itemized Application for Payment, for the cost of the Work in permanent place, as approved by University's Representative, which has been completed in accordance with the Contract Documents, less amounts previously paid.

The Application for Payment shall be prepared as follows:

.1 Use the form contained in the Exhibits.

.2 Itemize in accordance with the Cost Breakdown.

.3 Include such data substantiating Prime Trade Contractor's right to payment as University's Representative may reasonably require, such as invoices, certified payrolls, daily time and material records, and, if securities are deposited in lieu of retention pursuant to Article 9.5 below, a certification of the market value of all such securities as of a date not earlier than 5 days prior to the date of the Application for Payment.

.4 Itemize retention.

9.3.2 Applications For Payment shall not include requests for payment on account of (1) changes which have not been authorized by Change Orders or (2) amounts Prime Trade Contractor does not intend to pay a Subcontractor because of a dispute or other reason.

9.3.3 If required by University, an Application for Payment shall be accompanied by (1) a summary showing payments that will be made to Subcontractors covered by such application and conditional releases upon progress payment or final payment and (2) unconditional waivers and releases of claims and stop payment notices, in the form contained in the Exhibits, from each Subcontractor listed in the preceding Application for Payment covering sums disbursed pursuant to that preceding Application for Payment.

9.3.4 Prime Trade Contractor warrants that, upon submittal of an Application for Payment, all Work, for which Certificates For Payment have been previously issued and payment has been received from University, shall be free and clear of all claims, stop payment notices, security interests, and encumbrances in favor of Prime Trade Contractor, Subcontractors, or other persons or firms entitled to make claims by reason of having provided labor, materials, or equipment relating to the Work.

9.3.5 At the sole discretion of University, University's Representative may approve for inclusion in the Application for Payment the cost of materials not yet incorporated in the Work but already delivered and suitably stored either at the Project site or at some other appropriate location acceptable to University's Representative. In such case, Prime Trade Contractor shall furnish evidence satisfactory to University's Representative (1) of the cost of such materials and (2) that such materials are under the exclusive control of Prime Trade Contractor. Only materials to be incorporated in the Work will be considered for payment. Any payment shall not be construed as acceptance of such materials nor relieve Prime Trade Contractor from sole responsibility for the care and protection of such materials; nor relieve Prime Trade Contractor from risk of loss to such materials from any cause whatsoever; nor relieve Prime Trade Contractor from its obligation to complete the Work in accordance with the Contract; nor act as a waiver of the right of University to require fulfillment of all terms of the Contract. Nothing contained within this article 9.3.5 shall be deemed to obligate University to agree to payment for any non-incorporated materials or any part thereof, payment being in the sole and absolute discretion of University.

9.4 CERTIFICATE FOR PAYMENT

9.4.1 If Prime Trade Contractor has submitted an Application for Payment in accordance with Article 9.3 above, University's Representative shall, not later than 5 working days after the date of receipt of the Application for Payment, issue to University, with a copy to Prime Trade Contractor, a Certificate For Payment for such amount as University's Representative determines to be properly due.

9.4.2 If any such Application for Payment is determined not to be in accordance with Article 9.3 above, University will inform Prime Trade Contractor as soon as practicable, but not later than 5 working days after receipt. Thereafter, Prime Trade Contractor shall have 3 days to revise and resubmit such Application for Payment; otherwise University's Representative may issue a Certificate For Payment in the amount that University's Representative determines to be properly due without regard to such Application for Payment.

9.4.3 Approval of all or any part of an Application for Payment may be withheld, a Certificate For Payment may be withheld, and all or part of a previous Certificate For Payment may be nullified and that amount withheld from a current Certificate For Payment on account of any of the following:

.1 Defective Work not remedied.

.2 Third-party claims against Prime Trade Contractor or University arising from the acts or omissions of Prime Trade Contractor or Subcontractors.

.3 Stop payment notices.

.4 Failure of Prime Trade Contractor to make timely payments due Subcontractors for material or labor.

.5 A reasonable doubt that the Work can be completed for the balance of the Contract Sum then unpaid.

.6 Damage to University or Separate Contractor for which Prime Trade Contractor is responsible.

.7 Reasonable evidence that the Work will not be completed within the Contract Time; and that the unpaid balance of the Contract Sum would not be adequate to cover University's damages for the anticipated delay.

.8 Failure of Prime Trade Contractor to maintain and update as-built documents.

.9 Failure of Prime Trade Contractor to submit schedules or their updates as required by the Contract Documents.

.10 Failure to provide conditional or unconditional releases from an Subcontractor or supplier, if such waiver(s) have been requested by University's Representative.

.11 Performance of Work by Prime Trade Contractor without properly processed Shop Drawings.

.12 Anticipated liquidated damages commensurate with the number of days the Prime Trade Contractor fails to complete a critical activity by the date shown on the Master Project Schedule.

.13 Anticipated costs for acceleration under Article 2.6.3 of the General Conditions.

.14 Liquidated damages assessed in accordance with Article 5 of the Agreement.

.15 Failure to provide updated Reports of Subcontractor Information and Self-Certifications, as applicable.

.16 Failure to provide a Final Distribution of Contract Dollars with final Application for Payment.

.17 Any other failure of Prime Trade Contractor to perform its obligations under the Contract Documents.

9.4.4 Subject to the withholding provisions of Article 9.4.3 above, University will pay Prime Trade Contractor the amount set forth in the Certificate For Payment no later than 10 days after the issuance of the Certificate For Payment.

9.4.5 Neither University nor University's Representative will have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

9.4.6 Neither a Certificate For Payment nor a progress payment made by University will constitute acceptance of Defective Work.

9.5 DEPOSIT OF SECURITIES IN LIEU OF RETENTION AND DEPOSIT OF RETENTION INTO ESCROW

9.5.1 At the request and expense of Prime Trade Contractor, a substitution of securities may be made for any monies retained by University under Article 9.2 to ensure performance under the Contract Documents. Securities equivalent in value to the retention amount required by the Contract Documents for each Certificate For Payment shall be deposited by Prime Trade Contractor with a state or federally chartered bank in the State of California ("Escrow Agent"), which shall hold such securities pursuant to the escrow agreement referred to in Article 9.5.3 until retention is due in accordance with Article 9.8. Securities shall be valued as often as conditions of the securities market warrant, but in no case less than once per month. Prime Trade Contractor shall deposit additional securities so that the current market value of the total of all deposited securities shall be at least equal to the total required amount of retention.

9.5.2 Alternatively to Article 9.5.1 above, and at the request and expense of Prime Trade Contractor, University will deposit retention directly with Escrow Agent. Prime Trade Contractor may direct the investment of such deposited retention into interest bearing accounts or securities, and such deposits or securities shall be held by Escrow Agent upon the same terms provided for securities deposited by Prime Trade Contractor. Prime Trade Contractor and its surety shall bear the risk of failure of the Escrow Agent selected.

9.5.3 A prerequisite to the substitution of securities in lieu of retention or the deposit of retention into escrow shall be the execution by Prime Trade Contractor, University, and Escrow Agent of an Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention in the form contained in the Exhibits. The Prime Trade Contractor shall submit the Selection of Retention Options and the Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention not later than the date when 50% of the Work has been completed. The terms of such escrow agreement are incorporated into the requirements of this Article 9.5.

9.6 BENEFICIAL OCCUPANCY

9.6.1 University reserves the right, at its option and convenience, to occupy or otherwise make use of any part of the Work at any time prior to Project Substantial Completion or Final Completion upon 10 days' notice to Prime Trade Contractor. Such occupancy or use is herein referred to as "Beneficial Occupancy." Beneficial Occupancy shall be subject to the following conditions:

.1 University's Representative will make an inspection of the portion of the Project to be beneficially occupied and prepare a list of items to be completed or corrected prior to Final Completion. Prior to Beneficial Occupancy, University will issue a *Certificate of Beneficial Occupancy* on University's form.

.2 Beneficial Occupancy by University shall not be construed by Prime Trade Contractor as an acceptance by University of that portion of the Work which is to be occupied.

.3 Beneficial Occupancy by University shall not constitute a waiver of existing claims of University or Prime Trade Contractor against each other.

.4 Prime Trade Contractor shall provide, in the areas beneficially occupied and on a 24 hour and 7 day week basis as required, utility services, heating, and cooling for systems which are in operable condition at the time of Beneficial Occupancy. All responsibility for the operation and maintenance of equipment shall remain with Prime Trade Contractor while the equipment is so operated. Prime Trade Contractor shall submit to University an itemized list of each piece of equipment so operated with the date operation commences.

.5 The Guarantee to Repair Periods, as defined in Article 12.2 of the General Conditions, will commence upon the first dates of actual occupancy or use of portions of the Work actually occupied and equipment or systems fully utilized. Equipment or systems shall not be considered fully utilized until all parts of the Project served by the equipment or systems are actually occupied and used.

.6 University will pay all normal operating and maintenance costs resulting from its use of equipment in areas beneficially occupied.

.7 University will pay all utility costs which arise out of the Beneficial Occupancy.

.8 Prime Trade Contractor shall not be responsible for providing security in areas beneficially occupied.

.9 University will use its best efforts to prevent its Beneficial Occupancy from interfering with the conduct of Prime Trade Contractor's remaining Work.

.10 Prime Trade Contractor shall not be required to repair damage caused by University in its Beneficial Occupancy.

.11 Except as provided in this Article 9.6, there shall be no added cost to University due to Beneficial Occupancy.

.12 Prime Trade Contractor shall continue to maintain all insurance required by the Contract in full force and effect and University shall maintain the Builder's Risk Policy on the entire Project through Final Completion unless otherwise specified in writing on the Certificate of Occupancy.

9.7 SUBSTANTIAL COMPLETION

9.7.1 "Substantial Completion" means the stage in the progress of the Work, as determined by University's Representative, when the Work is complete and in accordance with the Contract Documents except only for completion of minor items which do not impair University's ability to occupy and fully utilize the Work for its intended purpose and a Certificate of Occupancy has been issued by the University's. Substantial Completion shall not terminate the Builder's Risk policy for the Project unless otherwise identified on the Certificate of Substantial Completion.

9.7.2 When Prime Trade Contractor gives notice to University's Representative that the Work is substantially complete, unless University's Representative determines that the Work is not sufficiently complete to warrant an inspection to determine Substantial Completion, University's Representative will inspect the Work, and prepare and give to Prime Trade Contractor a comprehensive list of items to be completed or corrected before establishing Substantial Completion. Prime Trade Contractor shall proceed promptly to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of Prime Trade Contractor to complete all Work in accordance with the Contract Documents. University's Representative will make an inspection to determine whether the Work is substantially complete. If University's Representative's inspection discloses any item, whether or not included on the list, which must be completed or corrected before Substantial Completion, Prime Trade Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item. Prime Trade Contractor shall then submit a request for another inspection by University's Representative to determine Substantial Completion. Costs for additional inspection by University's Representative shall be deducted from any monies due and payable to Prime Trade Contractor.

9.7.3 When University's Representative determines that the Work is substantially complete, University's Representative will prepare a Certificate of Substantial Completion for the Work on University's form as contained in the Exhibits, which, when signed by University, shall establish the date of Substantial Completion.

9.7.4 When University's Representative determines that all work of the Project is substantially complete, University's Representative will arrange for inspection by University's Building Official and other officials, as appropriate, for the purpose of issuing a Certificate of Occupancy. After a Certificate of Occupancy has been issued by the University, the University's Representative will prepare a Certificate of Substantial Completion for the Project on University's form as contained in the Exhibits, which, when signed by University, shall establish the date of

Project Substantial Completion and the responsibilities of University and Prime Trade Contractor for security, maintenance, utilities, insurance, and damage to the Work.

9.7.5 Unless otherwise provided in the Certificate of Substantial Completion for the Project, the Guarantee To Repair Period for the Work covered by the Certificate of Substantial Completion for the Project, shall commence on the date of Project Substantial Completion except that Project Substantial Completion shall not commence the Guarantee to Repair Period for any equipment or systems that:

.1 Are not fully operational (equipment or systems shall not be considered fully operational if they are intended to provide service to any portion of the building which the University has neither Beneficially Occupied nor accepted as Substantially Complete); or

.2 Are not accepted by the University.

The Guarantee To Repair Period for equipment or systems which become fully operational and accepted subsequent to Project Substantial Completion will begin on the date of their written acceptance by University.

9.7.6 The daily rate included in the Agreement and specifically identified as the rate to be paid to Prime Trade Contractor for Compensable Delays shall not apply to any delays occurring after Substantial Completion.

9.8 FINAL COMPLETION, FINAL PAYMENT, AND RELEASE OF RETENTION

9.8.1 Upon receipt of notice from Prime Trade Contractor that the Work is ready for final inspection, University's Representative will make such inspection. Final Completion shall be when University's Representative determines that the Work is fully completed and in accordance with the Contract Documents, including without limitation, satisfaction of all "punch list" items, and determines that a Certificate of Occupancy has been issued by the University. University will file a Notice of Completion within 15 days after Final Completion has occurred for all Prime Trade Contractors and all Project Work is complete. After receipt of the final Application For Payment, if University's Representative determines that Final Completion has occurred, University's Representative will issue the final Certificate For Payment.

9.8.2 Final payment and retention shall be released to Prime Trade Contractor, as set forth in Article 9.8.3, after:

.1 Prime Trade Contractor submits the final Application For Payment and all submittals required in accordance with Article 9.3;

.2 Prime Trade Contractor submits all guarantees and warranties procured by Prime Trade Contractor from Subcontractors, all operating manuals for equipment installed in the Project, as-built documents, and all other submittals required by the Contract Documents;

.3 Prime Trade Contractor submits the Final Distribution of Contract Dollars in the form contained in the Exhibits; and

.4 University's Representative issues the final Certificate For Payment.

At its sole discretion, after Final Completion, University may waive the requirement that Prime Trade Contractor submit a final Application For Payment before making final payment and/or release of retention to Prime Trade Contractor.

9.8.3 Final payment shall be paid not more than 10 days after University's Representative issues the final Certificate For Payment. Retention shall be released to Prime Trade Contractor 35 days after the filing of the Notice of Completion.

9.8.4 Acceptance of final payment by Prime Trade Contractor shall constitute a waiver of all claims, except claims for retention and claims previously made in writing and identified by Prime Trade Contractor as unsettled at the time of the final Application For Payment.

ARTICLE 10

PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 Prime Trade Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

10.2 SAFETY OF PERSONS AND PROPERTY

10.2.1 Prime Trade Contractor shall take adequate precautions for safety of and shall provide adequate protection to prevent damage, injury, or loss to the following:

.1 Employees involved in the Work and other persons who may be affected thereby.

.2 The Work in place and materials and equipment to be incorporated therein, whether in storage on or off the Project site, under care, custody, or control of Prime Trade Contractor or Subcontractors.

.3 Other property at the Project site and adjoining property.

10.2.2 Prime Trade Contractor shall erect and maintain, as required by existing conditions and performance of the Work, adequate safeguards for safety and protection, including providing adequate lighting and ventilation, posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities.

10.2.3 When use or storage of explosives, other hazardous materials, equipment, or unusual methods are necessary for execution of the Work, Prime Trade Contractor shall exercise the utmost care and carry on such activities only under the supervision of properly qualified personnel.

10.2.4 Prime Trade Contractor shall designate a responsible member of Prime Trade Contractor's organization at the Project site whose duty shall be the prevention of accidents. That person shall be the Superintendent, unless otherwise designated by Prime Trade Contractor in writing to University and University's Representative.

10.2.5 Prime Trade Contractor shall not load or permit any part of the Work or the Project site to be loaded so as to endanger the safety of persons or property.

10.3 EMERGENCIES

10.3.1 In an emergency affecting the safety of persons or property, Prime Trade Contractor shall act to prevent or minimize damage, injury, or loss. Prime Trade Contractor shall promptly notify University's Representative, which notice may be oral followed by written confirmation, of the occurrence of such an emergency and Prime Trade Contractor's action.

ARTICLE 11

INSURANCE AND BONDS

11.1 PRIME TRADE CONTRACTOR'S INSURANCE

11.1.1 Prime Trade Contractor shall, at its expense, purchase and maintain in full force and effect such insurance as will protect itself and University from claims, such as for bodily injury, wrongful death, and property damage, which may arise out of or result from the Work required by the Contract Documents, whether such Work is done by Prime Trade Contractor, by any Subcontractor, by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. The amounts of such insurance and any additional insurance requirements are specified in the Supplementary Conditions. See Article 3.20 of the General Conditions regarding the scope and extent of Prime Trade Contractor's liability for Repair of Damaged Work.

11.1.2 The following policies and coverages shall be furnished by Prime Trade Contractor:

.1 COMMERCIAL GENERAL LIABILITY INSURANCE subject to terms no less broad than the Insurance Services Office's (ISO) form CG 0001 (2004 or later edition), or a substitute form providing coverage at least as broad as the ISO form specified, covering all Work done by or on behalf of Prime Trade Contractor and providing insurance for bodily injury, wrongful death, personal injury, property damage, and contractual liability. There shall be no limitations or exclusions of coverage beyond those contained in the standard ISO form CG 0001 (2004 or later edition). Except with respect to bodily injury and property damage included within the products and completed operations hazards, the aggregate limit shall apply separately to Work required of Prime Trade Contractor by these Contract Documents. Contractor shall continue to maintain Products/Completed Operations liability insurance coverage for a minimum completed operations period of 10 year(s) or the applicable Statute of Repose as provided by the law of the jurisdiction where the project is located as shown in the policy(ies), whichever is less. All terms and conditions of such coverage shall be maintained during this completed operations period, including the required minimum coverage limits and the requirement to provide the University with coverage as an additional insured for completed operations as specified under this Article 11.1 and the Supplementary Conditions.

.2 BUSINESS AUTOMOBILE LIABILITY INSURANCE subject to terms no less broad than the Insurance Services Office's (ISO) form CA 0001 (1990 or later edition), or a substitute form providing coverage at least as broad as the ISO form specified, covering owned, hired, leased, and non-owned automobiles used by or on behalf of Insured, and providing liability insurance for bodily injury and property damage arising from the use or operation of such auto(s) with a minimum combined single limit of not less than $1,000,000 per accident. The minimum limits required may be satisfied by combination of primary and umbrella/excess policies. The Commercial Automobile Liability Insurance shall be provided by Contractor for all on site and off site Work.

.3 WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE as required by Federal and State of California law. Prime Trade Contractor shall also require all of its Subcontractors to maintain this insurance coverage.

11.1.3 The coverages required under this Article 11 shall not in any way limit the liability of Prime Trade Contractor.

11.1.4 Prime Trade Contractor's Certificates of Insurance, executed by a duly authorized representative of each broker of record or each insurer as evidence of the insurance required by these Contract Documents and on the form contained in the Exhibits, shall be submitted by Prime Trade Contractor to University prior to the commencement of Work by the Prime Trade Contractor. The Certificates of Insurance shall provide for no cancellation or modification of coverage without prior written notice to University, in accordance with policy provisions.

11.1.5 In the event Prime Trade Contractor does not comply with these insurance requirements, University may, at its option, provide insurance coverage to protect University; and the cost of such insurance shall be paid by Prime Trade Contractor and may be deducted from the Contract Sum.

11.1.6 Prime Trade Contractor's insurance as required by Article 11.1.2 above, shall, by endorsement to the policies, include the following:

.1 The Regents of the University of California, The University of California, University, and each of their Representatives, consultants, officers, agents, employees, and each of their Representative's consultants, regardless of whether or not identified in the Contract Documents or to the Contractor in writing, will be included as additional insureds on the Contractor's General Liability insurance for and relating to the Work to be performed by the Contractor and Subcontractors. Additional Insured provision or endorsement shall be at least as broad as the CG 20 10 07 04 in combination with the CG 20 37 07 04 (or earlier versions of CG 20 10 and CG 20 37 or Form B - CG 20 10 11 85 by itself), as published by Insurance Services Offices (ISO) and shall be included with Certificates of Insurance. The additional inssured requirement shall not apply to Worker's Compensation and Employer's Liability insurance.

Further, the amount of insurance available to the University shall be for the full amount of the loss up to the available policy limits and shall not be limited to any minimum requirements stated in the Contract Documents.

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.2 University, University's consultants, University's Representative, and University's Representative's consultants will not by reason of their inclusion as insureds incur liability to the insurance carriers for payment of premiums for such insurance.

.3 Coverage provided is primary and is not in excess of or contributing with any insurance or self-insurance maintained by University, University's consultants, University's Representative, and University's Representative's consultants. This provision, however, shall only apply as per the stipulations of Article 11.1.6.1 above.

11.1.7 The form and substance of all insurance policies required to be obtained by Prime Trade Contractor shall be subject to approval by University. All policies required by Articles 11.1.2.1, 11.1.2.2, and 11.1.2.3 above shall be issued by companies with ratings and financial classifications as specified in the Supplementary Conditions.

11.1.8 Prime Trade Contractor shall, by mutual agreement with University, furnish any additional insurance as may be required by University. Prime Trade Contractor shall provide Certificates of Insurance evidencing such additional insurance.

11.1.9 The Certificate of Insurance shall show (1) all companies affording coverage and (2) the name of the insured exactly in the manner as shown on the Bid Form. The name of the insured must be the name under which the entity is licensed by the Prime Trade Contractors State License Board.

11.1.10 If insurance company refuses to use the Certificate of Insurance form as contained in the Exhibits, it must provide a Certificate of Insurance evidencing compliance with this Article including those provisions noted under DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES section of the Certificate of Insurance Exhibit by including an endorsement to its Certificate of Insurance form covering those noted provisions exactly as they appear on the Certificate of Insurance Exhibit.

11.1.11 At the request of University, Prime Trade Contractor shall submit to University copies of the policies obtained by Prime Trade Contractor.

11.2 BUILDER'S RISK PROPERTY INSURANCE

11.2.1 University will provide its standard builder's risk property insurance, subject to the deductibles, terms and conditions, exclusions, and limitations as contained in the provisions of the policy. A copy of the University's standard builder's risk property insurance policy is available at the University's Facility office. In addition, a summary of the provisions of the policy is included as an Exhibit to the Contract. Prime Trade Contractor agrees that the University's provision of its standard builder's risk property insurance policy meets the University's obligation to provide builder's risk property insurance under the Contract and, in the event of a conflict between the

provisions of the policy and any summary or description of the provisions contained herein or otherwise, the provisions of the policy shall control and shall be conclusively presumed to fulfill the University's obligation to provide such insurance. The proceeds under such insurance policies taken out by University insuring the Work and materials will be payable to University and Prime Trade Contractor as their respective interests, from time to time, may appear. Prime Trade Contractor shall be responsible for the deductible amount in the event of a loss. In addition, nothing in this Article 11.2 shall be construed to relieve Prime Trade Contractor of full responsibility for loss of or damage to materials not incorporated in the Work, and for Prime Trade Contractor's tools and equipment used to perform the Work, whether on the Project site or elsewhere, or to relieve Prime Trade Contractor of its responsibilities referred to under this Article 11. Materials incorporated in the Work, as used in this Article 11.2, shall mean materials furnished while in transit to, stored at, or in permanent place at the Project site.

11.2.2 Insurance policies referred to under this Article 11.2 shall:

.1 Include a provision that the policies are primary and do not participate with nor are excess over any other valid collectible insurance carried by Prime Trade Contractor.

.2 Include a waiver of subrogation against Prime Trade Contractor, its agents, employees.

11.2.3 Builder's risk insurance coverage under this Article 11.2 will expire on the date of Final Completion recited in a Notice of Completion filed pursuant to Article 9.8.1. Should a Notice of Completion be filed more than 10 days after the date of Final Completion, the date of Final Completion recited in the Notice of Completion will govern.

11.3 PERFORMANCE BOND AND PAYMENT BOND

11.3.1 Prime Trade Contractor shall furnish bonds covering the faithful performance of the Contract (Performance Bond) and payment of obligations arising thereunder (Payment Bond) on the forms contained in Exhibits 3 and 2.

11.3.2 The Payment Bond and Performance Bond shall each be in the amount of the Contract Sum.

11.3.3 The Payment Bond and Performance Bond shall be in effect on the date the Contract is signed by University.

11.3.4 Prime Trade Contractor shall promptly furnish such additional security as may be required by University to protect its interests and those interests of persons or firms supplying labor or materials to the Work. Prime Trade Contractor shall furnish supplemental Payment and Performance Bonds each in the amount of the current Contract Sum at the request of the University.

11.3.5 Surety companies used by Prime Trade Contractor shall be, on the date the Contract is signed by University, an admitted surety insurer (as defined in the California Code of Civil Procedure Section 995.120).

11.3.6 The premiums for the Payment Bond and Performance Bond shall be paid by Prime Trade Contractor.

ARTICLE 12

UNCOVERING AND CORRECTION OF WORK

12.1 UNCOVERING OF WORK

12.1.1 If a portion of the Work is covered contrary to University's Representative's request or direction, or contrary to the requirements of the Contract Documents, it must, if required in writing by University's Representative, be

uncovered for University's Representative's observation and be replaced at Prime Trade Contractor's expense without adjustment of the Contract Time or the Contract Sum.

12.1.2 If a portion of the Work has been covered, which is not required by the Contract Documents to be observed or inspected prior to its being covered and which University's Representative has not specifically requested to observe prior to its being covered, University's Representative may request to see such Work and it shall be uncovered and replaced by Prime Trade Contractor. If such Work is in accordance with the Contract Documents, the costs of uncovering and replacing the Work shall be added to the Contract Sum by Change Order; and if the uncovering and replacing of the Work extends the Contract Time, an appropriate adjustment of the Contract Time shall be made by Change Order. If such Work is not in accordance with the Contract Documents, Prime Trade Contractor shall pay such costs and shall not be entitled to an adjustment of the Contract Time or the Contract Sum.

12.2 CORRECTION OF DEFECTIVE WORK AND GUARANTEE TO REPAIR PERIOD

12.2.1 The term "Guarantee to Repair Period" means a period of 1 year, unless a longer period of time is specified, commencing as follows:

.1 For any work of the Project not described as incomplete in the Certificate of Substantial Completion for the Project, on the date of Project Substantial Completion.

.2 For space beneficially occupied or for separate systems fully utilized prior to Project Substantial Completion pursuant to Article 9.6 of the General Conditions, from the first date of such Beneficial Occupancy or actual use, as established in a Certificate of Beneficial Occupancy.

.3 For all work of the Project other than .1 or .2 above, from the date of Final Completion.

12.2.2 Prime Trade Contractor shall (1) correct Defective Work that becomes apparent during the progress of the Work or during the Guarantee to Repair Period and (2) replace, repair, or restore to University's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of Defective Work or the correction of Defective Work. Prime Trade Contractor shall promptly commence such correction, replacement, repair, or restoration upon notice from University's Representative or University, but in no case later than 10 days after receipt of such notice; and Prime Trade Contractor shall diligently and continuously prosecute such correction to completion. Prime Trade Contractor shall bear all costs of such correction, replacement, repair, or restoration, and all losses resulting from such Defective Work, including additional testing, inspection, and compensation for University's Representative's services and expenses. Prime Trade Contractor shall perform corrective Work at such times that are acceptable to University and in such a manner as to avoid, to the extent practicable, disruption to University's activities.

12.2.3 If immediate correction of Defective Work is required for life safety or the protection of property and is performed by University or Separate Contractors, Prime Trade Contractor shall pay to University all reasonable costs of correcting such Defective Work. Prime Trade Contractor shall replace, repair, or restore to University's satisfaction any other parts of the Work and any other real or personal property which is damaged or destroyed as a result of such Defective Work or the correction of such Defective Work.

12.2.4 Prime Trade Contractor shall remove from the Project site portions of the Work and materials which are not in accordance with the Contract Documents and which are neither corrected by Prime Trade Contractor nor accepted by University.

12.2.5 If Prime Trade Contractor fails to commence correction of Defective Work within 10 days after notice from University or University's Representative or fails to diligently prosecute such correction to completion, University may correct the Defective Work in accordance with Article 2.4; and, in addition, University may remove the Defective Work and store salvageable materials and equipment at Prime Trade Contractor's expense.

12.2.6 If Prime Trade Contractor fails to pay the costs of such removal and storage as required by Articles 12.2.4 and 12.2.5 above within 10 days after written demand, University may, without prejudice to other remedies, sell such materials at auction or at private sale, or otherwise dispose of such material. Prime Trade Contractor shall be entitled to the proceeds of such sale, if any, in excess of the costs and damages for which Prime Trade Contractor is liable to University, including compensation for University's Representative's services and expenses. If such proceeds of sale do not cover costs and damages for which Prime Trade Contractor is liable to University, the Contract Sum shall be reduced by such deficiency. If there are no remaining payments due Prime Trade Contractor or the remaining payments are insufficient to cover such deficiency, Prime Trade Contractor shall promptly pay the difference to University.

12.2.7 Prime Trade Contractor's obligations under this Article 12 are in addition to and not in limitation of its warranty under Article 3.4 of the General Conditions or any other obligation of Prime Trade Contractor under the Contract Documents. Enforcement of Prime Trade Contractor's express warranties and guarantees to repair contained in the Contract Documents shall be in addition to and not in limitation of any other rights or remedies University may have under the Contract Documents or at law or in equity for Defective Work. Nothing contained in this Article 12 shall be construed to establish a period of limitation with respect to other obligations of Prime Trade Contractor under the Contract Documents. Establishment of the Guarantee To Repair Period relates only to the specific obligation of Prime Trade Contractor to correct the Work and in no way limits either Prime Trade Contractor's liability for Defective Work or the time within which proceedings may be commenced to enforce Prime Trade Contractor's obligations under the Contract Documents.

ARTICLE 13

TERMINATION OR SUSPENSION OF THE CONTRACT

13.1 TERMINATION BY PRIME TRADE CONTRACTOR

13.1.1 Subject to Article 13.1.2 below, Prime Trade Contractor shall have the right to terminate the Contract only upon the occurrence of one of the following:

.1 Provided that University has not commenced reasonable action to remove any order of a court within the 90 day period, the Work is stopped for 90 consecutive days, through no act or fault of Prime Trade Contractor, any Subcontractor, or any employee or agent of Prime Trade Contractor or any Subcontractor, due to an issuance of an order of a court or other public authority having jurisdiction or due to an act of government, such as a declaration of a national emergency making material unavailable.

.2 University fails to perform any material obligation under the Contract Documents and fails to cure such default within 30 days or University has not commenced to cure such default within 30 days where such cure will require a reasonable period beyond 30 days and diligently prosecutes the same to completion, after receipt of notice from Prime Trade Contractor stating the nature of such default.

.3 Repeated suspensions by University, other than such suspensions as are agreed to by Prime Trade Contractor under Article 13.3 below, which constitute in the aggregate more than 20% of the Contract Time.

13.1.2 Upon the occurrence of one of the events listed in Article 13.1.1 above, Prime Trade Contractor may, upon 10 days additional notice to University and University's Representative, and provided that the condition giving rise to Prime Trade Contractor's right to terminate is continuing, terminate the Contract.

13.1.3 Upon termination by Prime Trade Contractor, University will pay to Prime Trade Contractor the sum determined by Article 13.4.4 of the General Conditions. Such payment will be the sole and exclusive remedy to which Prime Trade Contractor is entitled in the event of termination of the Contract by Prime Trade Contractor pursuant to this Article 13.1; and Prime Trade Contractor will be entitled to no other compensation or damages and expressly waives the same.

13.2 TERMINATION BY UNIVERSITY FOR CAUSE

13.2.1 University will have the right to terminate the Contract for cause at any time after the occurrence of any of the following events:

.1 Prime Trade Contractor becomes insolvent or files for relief under the bankruptcy laws of the United States.

.2 Prime Trade Contractor makes a general assignment for the benefit of its creditors or fails to pay its debts as the same become due.

.3 A receiver is appointed to take charge of Prime Trade Contractor's property.

.4 The commencement or completion of any Work activity is 14 days or more behind the date set forth in the Master Project Schedule for such Work activity, and which results in an Unexcusable Delay.

.5 Prime Trade Contractor abandons the Work.

13.2.2 Upon the occurrence of any of the following events, University will have the right to terminate the Contract for cause if Prime Trade Contractor fails to promptly commence to cure such default and diligently prosecute such cure within 5 days after notice from University, or within such longer period of time as is reasonably necessary to complete such cure:

.1 Prime Trade Contractor persistently or repeatedly refuses or fails to supply skilled supervisory personnel, an adequate number of properly skilled workers, proper materials, or necessary equipment to prosecute the Work in accordance with the Contract Documents.

.2 Prime Trade Contractor fails to make prompt payment of amounts properly due Subcontractors after receiving payment from University.

.3 Prime Trade Contractor disregards Applicable Code Requirements.

.4 Prime Trade Contractor persistently or materially fails to execute the Work in accordance with the Contract Documents.

.5 Prime Trade Contractor is in default of any other material obligation under the Contract Documents.

.6 Prime Trade Contractor persistently or materially fails to comply with applicable safety requirements.

13.2.3 Upon any of the occurrences referred to in Articles 13.2.1 and 13.2.2 above, University may, at its election and by notice to Prime Trade Contractor, terminate the Contract and take possession of the Project site and all materials, supplies, equipment, tools, and construction equipment and machinery thereon owned by Prime Trade Contractor; accept the assignment of any or all of the subcontracts; and then complete the Work by any method University may deem expedient. If requested by University, Prime Trade Contractor shall remove any part or all of Prime Trade Contractor's materials, supplies, equipment, tools, and construction equipment and machinery from the Project site within 7 days of such request; and if Prime Trade Contractor fails to do so, University may remove or store, and after 90 days sell, any of the same at Prime Trade Contractor's expense.

13.2.4 If the Contract is terminated by University as provided in this Article 13.2, Prime Trade Contractor shall not be entitled to receive any further payment until the expiration of 35 days after Final Completion and acceptance of all Work by University.

13.2.5 If the unpaid balance of the Contract Sum exceeds the cost of completing the Work, including all additional costs and expenses made necessary thereby, including costs for University staff time, plus all losses sustained, including any liquidated damages provided under the Contract Documents, such excess shall be paid to Prime Trade Contractor. If such costs, expenses, losses , and liquidated damages exceed the unpaid balance of the Contract Sum, Prime Trade Contractor shall pay such excess to University.

13.2.6 No termination or action taken by University after termination shall prejudice any other rights or remedies of University provided by law or by the Contract Documents upon such termination; and University may proceed against Prime Trade Contractor to recover all Losses suffered by University.

13.3 SUSPENSION BY UNIVERSITY FOR CONVENIENCE

13.3.1 University may, at any time and from time to time, without cause, order Prime Trade Contractor, in writing, to suspend, delay, or interrupt the Work in whole or in part for such period of time, up to 90 days, as University may determine, with such period of suspension to be computed from the date of delivery of the written order. Such order shall be specifically identified as a “Suspension Order” under this Article 13.3. The Work may be stopped for such further period as the parties may agree. Upon receipt of a Suspension Order, Prime Trade Contractor shall, at University's expense, comply with its terms and take all reasonable steps to minimize costs allocable to the Work covered by the Suspension Order during the period of Work stoppage. Within 90 days after the issuance of the Suspension Order, or such extension to that period as is agreed upon by Prime Trade Contractor and University, University shall either cancel the Suspension Order or delete the Work covered by such Suspension Order by issuing a Change Order.

13.3.2 If a Suspension Order is canceled or expires, Prime Trade Contractor shall continue with the Work. A Change Order will be issued to cover any adjustments of the Contract Sum or the Contract Time necessarily caused by such suspension. Any Claim by Prime Trade Contractor for an adjustment of the Contract Sum or the Contract Time shall be made within 21 days after the end of the Work suspension. Prime Trade Contractor agrees that submission of its claim within said 21 days is an express condition precedent to its right to Arbitrate or Litigate such a claim.

13.3.3 The provisions of this Article 13.3 shall not apply if a Suspension Order is not issued by University. A Suspension Order shall not be required to stop the Work as permitted or required under any other provision of the Contract Documents.

13.4 TERMINATION BY UNIVERSITY FOR CONVENIENCE

13.4.1 University may, at its option, terminate this Contract, in whole or from time to time in part, at any time by giving notice to Prime Trade Contractor. Upon such termination, Prime Trade Contractor agrees to waive any claims for damages, including loss of anticipated profits, on account thereof; and, as the sole right and remedy of Prime Trade Contractor, University shall pay Prime Trade Contractor in accordance with Article 13.4.4 below.

13.4.2 Upon receipt of notice of termination under this Article 13.4, Prime Trade Contractor shall, unless the notice directs otherwise, do the following:

.1 Immediately discontinue the Work to the extent specified in the notice.

.2 Place no further orders or subcontracts for materials, equipment, services, or facilities, except as may be necessary for completion of such portion of the Work as is not discontinued.

.3 Promptly cancel, on the most favorable terms reasonably possible, all subcontracts to the extent they relate to the performance of the discontinued portion of the Work.

.4 Thereafter do only such Work as may be necessary to preserve and protect Work already in progress and to protect materials, plants, and equipment on the Project site or in transit thereto.

13.4.3 Upon such termination, the obligations of the Contract shall continue as to portions of the Work already performed and, subject to Prime Trade Contractor's obligations under Article 13.4.2 above, as to bona fide obligations assumed by Prime Trade Contractor prior to the date of termination.

13.4.4 Upon such termination, University shall pay to Prime Trade Contractor the sum of the following:

.1 The amount of the Contract Sum allocable to the portion of the Work properly performed by Prime Trade Contractor as of the date of termination, less sums previously paid to Prime Trade Contractor.

.2 Plus an amount equal to the lesser of $50,000 or 5% of the difference between the Contract Sum and the amount of the Contract Sum allocable to the portion of the Work properly performed by Prime Trade Contractor as of the date of termination.

.3 Plus previously unpaid costs of any items delivered to the Project site which were fabricated for subsequent incorporation in the Work.

.4 Plus any proven Losses with respect to materials and equipment directly resulting from such termination.

.5 Plus reasonable demobilization costs.

.6 Plus reasonable costs of preparing a statement of the aforesaid costs, expenses, and Losses in connection with such termination.

The above payment shall be the sole and exclusive remedy to which Prime Trade Contractor is entitled in the event of termination of the Contract by University pursuant to this Article 13.4; and Prime Trade Contractor will be entitled to no other compensation or damages and expressly waives same.

ARTICLE 14

STATUTORY AND OTHER REQUIREMENTS

14.1 PATIENT HEALTH INFORMATION

14.1.1 Prime Trade Contractor acknowledges that its employees, agents, subcontractors, consultants and others acting on its behalf may come into contact with Patient Health Information ("PHI") while performing work at the Project Site. This contact is most likely rare and brief (e.g. walking through a clinic where patient files may be visible, overhearing conversations between physicians while working or touring a hospital, noticing a relative or acquaintance receiving treatment in a University facility, etc.). Prime Trade Contractor shall immediately notify University Representative of any such contact. Any and all forms of PHI should not be examined closer, copied, photographed, recorded in any manner, distributed or shared. Prime Trade Contractor will adopt procedures to ensure that its employees, agents and subcontractors refrain from such activity. If Prime Trade Contractor, its employees, agents or subcontractors do further examine, copy, photograph, record in any manner, distribute or share this information, Prime Trade Contractor will report such actions immediately to the University Representative. Prime Trade Contractor will immediately take all steps necessary to stop any such actions and will ensure that no further violations of this contractual responsibility will occur. Prime Trade Contractor will report to University Representative within five (5) days after Prime Trade Contractor gives University Representative notice of the event/action of the steps taken to prevent future occurrences.

14.2 NONDISCRIMINATION

14.2.1 For purposes of this Article 14.2, the term Subcontractor shall not include suppliers, manufacturers, or distributors.

14.2.2 Prime Trade Contractor shall comply and shall ensure that all Subcontractors comply with Section 12900 through 12996, of the State of California Government Code.

14.2.3 Prime Trade Contractor agrees as follows during the performance of the Work:

.1 Prime Trade Contractor shall provide equal treatment to, and shall not willfully discriminate against or allow harassment of any employee or applicant for employment on the basis of: race; color; religion;

sex; age; ancestry; national origin; sexual orientation; physical or mental disability; veteran's status; medical condition (as defined in Section 12926 of the State of California Government Code and including cancer-related medical conditions and or genetic characteristics); genetic information (as defined in the Genetic Information Nondiscrimination Act of 2008 and including family medical history); marital status; gender identity, pregnancy, or citizenship (within the limits imposed by law or University's policy) or service in the uniformed services (as defined by the Uniformed Services Employment and Reemployment Rights Act of 1994). Prime Trade Contractor will also take affirmative action to ensure that any such employee or applicant for employment is not discriminated against on any of the bases identified above. Such equal treatment shall apply, but not be limited to the following: employment; upgrade; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Prime Trade Contractor also agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The Prime Trade Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Prime Trade Contractor, state that qualified applicants will receive consideration for employment without regard to: race; color; religion; sex; age; ancestry; national origin; sexual orientation; physical or mental disability; veteran's status; medical condition (as defined in Section 12926 of the State of California Government Code and including cancer-related medical conditions and or genetic characteristics); genetic information (as defined in the Genetic Information Nondiscrimination Act of 2008 and including family medical history); marital status; gender identity, pregnancy, or citizenship (within the limits imposed by law or University's policy) or service in the uniformed services (as defined by the Uniformed Services Employment and Reemployment Rights Act of 1994). For purposes of this provision: (1) "Pregnancy" includes pregnancy, childbirth, and medical conditions related to pregnancy and childbirth; and (2) "Service in the uniformed services" includes membership, application for membership, performance of service, application for service, or obligation for service in the uniformed services.

.2 Prime Trade Contractor and all Subcontractors will permit access to their records of employment, employment advertisements, application forms, and other pertinent data and records by University or any appropriate agency of the State of California designated by University for the purposes of investigation to ascertain compliance with this Article 14.2. The outcome of the investigation may result in the following:

.1 A finding of willful violation of the provisions of this Contract or of the Fair Employment Practices Act may be regarded by University as (1) a basis for determining that Prime Trade Contractor is not a “responsible bidder” as to future contracts for which such Prime Trade Contractor may submit bids or (2) a basis for refusing to accept or consider the bids of Prime Trade Contractor for future contracts.

.2 University may deem a finding of willful violation of the Fair Employment Practices Act to have occurred upon receipt of written notice from the Fair Employment Practices Commission that it has (1) investigated and determined that Prime Trade Contractor has violated the Fair Employment Practices Act and (2) issued an order under the State of California Government Code Section 12970 or obtained an injunction under Government Code Section 12973.

.3 Upon receipt of such written notice from the Fair Employment Practices Commission, University may notify Prime Trade Contractor that, unless it demonstrates to the satisfaction of University within a stated period that the violation has been corrected, Prime Trade Contractor's bids on future projects will not be considered.

.4 Prime Trade Contractor agrees that, should University determine that Prime Trade Contractor has not complied with this Article 14.2, Prime Trade Contractor shall forfeit to University, as a penalty, for each day or portion thereof, for each person who was denied employment as a result of such non-compliance, the penalties provided in Article 14.3 below for violation of prevailing wage rates. Such

penalty amounts may be recovered from Prime Trade Contractor; and University may deduct any such penalty amounts from the Contract Sum.

.5 Nothing contained in this Article 14.2 shall be construed in any manner so as to prevent University from pursuing any other remedies that may be available at law.

.6 Prime Trade Contractor shall meet the following standards for compliance and provide University with satisfactory evidence of such compliance upon University's request, which shall be evaluated in each case by University:

.1 Prime Trade Contractor shall notify its Superintendent and other supervisory personnel of the nondiscrimination requirements of the Contract Documents and their responsibilities thereto.

.2 Prime Trade Contractor shall notify all sources of employee referrals (including unions, employment agencies, and the State of California Department of Employment) of the nondiscrimination requirements of the Contract Documents by sending to such sources and by posting the Notice of Equal Employment Opportunity (EEO).

.3 Prime Trade Contractor or its representative shall, through all unions with whom it may have agreements, develop agreements that (1) define responsibilities for nondiscrimination in hiring, referrals, upgrading, and training and (2) implement an affirmative nondiscrimination program, in terms of the unions' specific areas of skill and geography, such that qualified minority women, non-minority women, and minority men shall be available and given an equal opportunity for employment.

.4 Prime Trade Contractor shall notify University of opposition to the nondiscrimination requirements of the Contract Documents by individuals, firms, or organizations during the term of the Contract.

7 Prime Trade Contractor shall include the provisions of the foregoing Articles 14.2.3.1 through 14.2.3.6 in all subcontracts with Subcontractors, so that such provisions will be binding upon each such Subcontractor.

14.3 PREVAILING WAGE RATES

14.3.1 For purposes of this Article 14.3, the term Subcontractor shall not include suppliers, manufacturers, or distributors.

14.3.2 Prime Trade Contractor shall comply and shall ensure that all Subcontractors comply with prevailing wage law pursuant to the State of California Labor Code, including but not limited to Section 1720 et seq. of the State of California Labor Code. Compliance with these sections is required by this Contract. The Work under this Contract is subject to compliance monitoring and enforcement by the State of California Department of Industrial Relations.

14.3.3 The State of California Department of Industrial Relations has ascertained the general prevailing per diem wage rates in the locality in which the Work is to be performed for each craft, classification, or type of worker required to perform the Work. A copy of the general prevailing per diem wage rates will be on file at University's principal facility office and will be made available to any interested party upon request. Prime Trade Contractor shall post a copy of the general prevailing per diem wage rates as well as job site notices as prescribed by regulation at the job site. By this reference, such schedule is made part of the Contract Documents. Prime Trade Contractor shall pay not less than the prevailing wage rates, as specified in the schedule and any amendments thereto, to all workers employed by Prime Trade Contractor in the execution of the Work. Prime Trade Contractor shall cause all subcontracts to include the provision that all Subcontractors shall pay not less than the prevailing rates to all workers employed by such Subcontractors in the execution of the Work. Prime Trade Contractor shall forfeit to University, as a penalty, not more than $200 for each calendar day or portion thereof for each worker that is paid less than the prevailing rates as determined by the Director of Industrial Relations for the work or craft in which the worker is employed for any portion of the Work done by Prime Trade Contractor or any Subcontractor. The amount of this penalty shall be determined pursuant to applicable law. Such forfeiture amounts may be deducted from the

Contract Sum or sought directly from the surety under its Performance Bond if there are insufficient funds remaining in the Contract Sum. Prime Trade Contractor shall also pay to any worker who was paid less than the prevailing wage rate for the work or craft for which the worker was employed for any portion of the Work, for each day, or portion thereof, for which the worker was paid less than the specified prevailing per diem wage rate, an amount equal to the difference between the specified prevailing per diem wage rate and the amount which was paid to the worker. Review of any civil wage and penalty assessment shall be made pursuant to section 1742 of the California Labor Code.

14.4 PAYROLL RECORDS

14.4.1 For purposes of this Article 14.4, the term Subcontractor shall not include suppliers, manufacturers, or distributors.

14.4.2 Prime Trade Contractor and all Subcontractors shall keep an accurate payroll record, showing the name, address, social security number, job classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyworker, apprentice, worker, or other employee employed in connection with the Work. All payroll records shall be certified as being true and correct by Prime Trade Contractor or Subcontractors keeping such records; and the payroll records shall be available for inspection at all reasonable hours at the principal office of Prime Trade Contractor on the following basis:

.1 A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or the employee's authorized representative on request.

.2 A certified copy of all payroll records shall be made available for inspection upon request to University, the State of California Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the State of California Division of Industrial Relations.

.3 A certified copy of all payroll records shall be made available upon request by the public for inspection or copies thereof made; provided, however, that the request by the public shall be made to either University, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. The public shall not be given access to such records at the principal offices of Prime Trade Contractor or Subcontractors. Any copy of the records made available for inspection as copies and furnished upon request to the public or any public agency by University shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of Prime Trade Contractor awarded the Contract or performing the Contract shall not be marked or obliterated.

14.4.3 Prime Trade Contractor shall file a certified copy of the payroll records with the entity that requested the records within 10 days after receipt of a written request. Prime Trade Contractor shall inform University of the location of such payroll records for the Project, including the street address, city, and county; and Prime Trade Contractor shall, within 5 working days, provide notice of change of location of such records. In the event of noncompliance with the requirements of this Article 14.4 or with the State of California Labor Code Section 1776, Prime Trade Contractor shall have 10 days in which to comply following receipt of notice specifying in what respects Prime Trade Contractor must comply. Should noncompliance still be evident after the 10 day period, Prime Trade Contractor shall forfeit to University, as a penalty, $100 for each day, or portion thereof, for each worker, until strict compliance is accomplished. Such forfeiture amounts may be deducted from the Contract Sum.

14.5 APPRENTICES

14.5.1 For purposes of this Article 14.5, the term Subcontractor shall not include suppliers, manufacturers, and distributors.

14.5.2 Only apprentices, as defined in the State of California Labor Code Section 3077, who are in training under apprenticeship standards and written apprentice agreements under Chapter 4, Division 3, of the State of California Labor Code, are eligible to be employed by Prime Trade Contractor and Subcontractors as apprentices. The

employment and training of each apprentice shall be in accordance with the provisions of the apprenticeship standards and written apprentice agreements under which the apprentice is training and in accordance with prevailing wage law pursuant to the Labor Code, including but not limited to Section 1777.5. The Contractor bears responsibility for compliance with this section for all apprenticeable occupations.

14.5.3 Every apprentice shall be paid the standard wage to apprentices, under the regulations of the craft or trade at which the apprentice is employed, and shall be employed only at the Work in the craft or trade to which the apprentice is indentured.

14.5.4 When Prime Trade Contractor or Subcontractors employ workers in any apprenticeship craft or trade on the Work, Prime Trade Contractor or Subcontractors shall 1) send contract award information to the applicable joint apprenticeship committee that can supply apprentices to the site of the public work and 2) apply to the joint apprenticeship committee, which administers the apprenticeship standards of the craft or trade in the area of the Project site, for a certificate approving Prime Trade Contractor or Subcontractors under the apprenticeship standards for the employment and training of apprentices in the area of the Project site. The committee will issue a certificate fixing the number of apprentices or the ratio of apprentices to journeypersons who shall be employed in the craft or trade on the Work. The ratio will not exceed that stipulated in the apprenticeship standards under which the joint apprenticeship committee operates; but in no case shall the ratio be less than 1 hour of apprentice work for every 5 hours of journeyperson work, except as permitted by law. Prime Trade Contractor or Subcontractors shall, upon the issuance of the approval certificate in each such craft or trade, employ the number of apprentices or the ratio of apprentices to journeypersons fixed in the certificate issued by the joint apprenticeship committee or present an exemption certificate issued by the Division of Apprenticeship Standards.

14.5.5 “Apprenticeship craft or trade,” as used in this Article 14.5, shall mean a craft or trade determined as an apprenticeship occupation in accordance with rules and regulations prescribed by the Apprenticeship Council.

14.5.6 If Prime Trade Contractor or Subcontractors employ journeyworkers or apprentices in any apprenticeship craft or trade in the area of the Project site, and there exists a fund for assisting to allay the cost of the apprenticeship program in the trade or craft, to which fund or funds other Prime Trade Contractors in the area of the Project site are contributing, Prime Trade Contractor and Subcontractors shall contribute to the fund or funds in each craft or trade in which they employ journeyworkers or apprentices on the Work in the same amount or upon the same basis and in the same manner done by the other contractors. Prime Trade Contractor may include the amount of such contributions in computing its bid for the Contract; but if Prime Trade Contractor fails to do so, it shall not be entitled to any additional compensation therefor from University.

14.5.7 In the event Prime Trade Contractor willfully fails to comply with this Article 14.5, it will be considered in violation of the requirements of the Contract.

14.5.8 Nothing contained herein shall be considered or interpreted as prohibiting or preventing the hiring by Prime Trade Contractor or Subcontractors of journeyworker trainees who may receive on-the-job training to enable them to achieve journeyworker status in any craft or trade under standards other than those set forth for apprentices.

14.6 WORK DAY

14.6.1 Prime Trade Contractor shall not permit any worker to labor more than 8 hours during any 1 day or more than 40 hours during any 1 calendar week, except as permitted by law and in such cases only upon such conditions as are provided by law. Prime Trade Contractor shall forfeit to University, as a penalty, $25 for each worker employed in the execution of this Contract by Prime Trade Contractor, or any Subcontractor, for each day during which such worker is required or permitted to work more than 8 hours in any 1 day and 40 hours in any 1 calendar week in violation of the terms of this Article 14.6 or in violation of the provisions of any law of the State of California. Such forfeiture amounts may be deducted from the Contract Sum. Prime Trade Contractor and each Subcontractor shall keep, or cause to be kept, an accurate record showing the actual hours worked each day and each calendar week by each worker employed on the Project, which record shall be kept open at all reasonable hours to the

inspection of University, its officers and agents, and to the inspection of the appropriate enforcement agency of the State of California.

ARTICLE 15

MISCELLANEOUS PROVISIONS

15.1 GOVERNING LAW

15.1.1 The Contract shall be governed by the law of the State of California.

15.2 SUCCESSORS AND ASSIGNS

15.2.1 University and Prime Trade Contractor respectively bind themselves and their successors, permitted assigns, and legal representatives to the other party and to the successors, permitted assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract, in whole or in part, without prior written consent of the other party. Notwithstanding any such assignment, each of the original contracting parties shall remain legally responsible for all of its obligations under the Contract.

15.3 RIGHTS AND REMEDIES

15.3.1 All University's rights and remedies under the Contract Documents will be cumulative and in addition to and not in limitation of all other rights and remedies of University under the Contract Documents or otherwise available at law or in equity.

15.3.2 No action or failure to act by University or University's Representative will constitute a waiver of a right afforded them under the Contract, nor will such action or failure to act constitute approval of or acquiescence in a condition or breach thereunder, except as may be specifically agreed in writing. No waiver by University or University's Representative of any condition, breach or default will constitute a waiver of any other condition, breach or default; nor will any such waiver constitute a continuing waiver.

15.3.3 No provision contained in the Contract Documents shall create or give to third parties any claim or right of action against University, University's Representative, or Prime Trade Contractor.

15.4 SURVIVAL

15.4.1 The provisions of the Contract which by their nature survive termination of the Contract or Final Completion, including all warranties, indemnities, payment obligations, and University's right to audit Prime Trade Contractor's books and records, shall remain in full force and effect after Final Completion or any termination of the Contract.

15.5 COMPLETE AGREEMENT

15.5.1 The Contract Documents constitute the full and complete understanding of the parties and supersede any previous agreements or understandings, oral or written, with respect to the subject matter hereof. The Contract may be modified only by a written instrument signed by both parties or as provided in Article 7 of the General Conditions.

15.6 SEVERABILITY OF PROVISIONS

15.6.1 If any one or more of the provisions contained in the Contract Documents should be invalid, illegal, or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired thereby.

15.7 UNIVERSITY'S RIGHT TO AUDIT

15.7.1 University and entities and agencies designated by University will have access to and the right to audit and the right to copy at University's cost all of Prime Trade Contractor's books, records, contracts, correspondence, instructions, drawings, receipts, vouchers, purchase orders, and memoranda relating to the Work. Prime Trade Contractor shall preserve all such records and other items for a period of at least 3 years after Final Completion.

15.8 METHODS OF DELIVERY FOR SPECIFIED DOCUMENTS

15.8.1 The following documents must be delivered in a manner specified in Article 15.8.2:

.1 Contractor Notices of election to litigate or arbitrate;
.2 Written demand for an informal conference to meet and confer pursuant to Article 4.5;
.3 University's written statement identifying remaining disputes following informal conference pursuant to Article 4.6;
.4 Written demand for non-binding mediation pursuant to Article 4.6;
.5 Contractor claims pursuant to Article 4.3;
.6 Contractor notices of conditions pursuant to Articles 3.17, 3.18, or 3.19;
.7 University's notices of Contractor's failure to perform and/or correct defective work pursuant to Articles 4.1.6, 12.2 and 13.2.3;
.8 University's notice to stop work pursuant to Article 2.3.1:
.9 Notices of termination or suspension pursuant to Article 13.

15.8.2 Delivery methods for documents specified in Article 15.8.1:

.1 By personal delivery.
.2 Sent by facsimile copy where receipt is confirmed.
.3 Sent by Express Mail, or another method of delivery providing for overnight delivery where receipt is confirmed.
.4 Sent by registered or certified mail, postage prepaid, return receipt requested.

15.8.3 The documents identified in Article 15.8.1 shall only be effective if delivered in the manner specified in Article 15.8.2. Subject to the forgoing, such documents shall be deemed given and received upon actual receipt in the case of all except registered or certified mail; and in the case of registered or certified mail, on the date shown on the return receipt or the date delivery during normal business hours was attempted. Delivery of the specified documents shall be made at the respective street addresses set forth in the Agreement. Such street addresses may be changed by notice given in accordance with this Article 15.8.

15.9 TIME OF THE ESSENCE

15.9.1 Time limits stated in the Contract Documents are of the essence of the Contract.

15.10 MUTUAL DUTY TO MITIGATE

15.10.1 University and Contractor shall use all reasonable and economically practicable efforts to mitigate delays and damages to the Project and to one another with respect to the Project, regardless of the cause of such delay or damage.

15.11 UC FAIR WAGE

Contractor shall pay all persons providing construction services and/or any labor on site, including any University location, no less than the UC Fair Wage (defined as $13 per hour as of 10/1/15, $14 per hour as of 10/1/16, and $15 per hour as of 10/1/17) and shall comply with all applicable federal, state and local working condition requirements.

[End]

.3 the Contractor must have employed all reasonable rain mitigation measures to enable the work to continue on the day; and

.4 all other conditions of Article 8 must be met.

When the total number of rainy weather days within a month does not exceed the number of days specified; the remaining days shall carry forward to the next month of the project. Remaining rain days for the calendar year shall carry forward to the next calendar year through final completion of the project.

4. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 9 – PAYMENTS AND COMPLETION

Article 9.4.1 is replaced as follows:

9.4 CERTIFICATE FOR PAYMENT

9.4.1 If Contractor has submitted an Application For Payment in accordance with Article 9.3, University's Representative shall, not later than 10 working days after the date of receipt of the Application For Payment, issue to University, with a copy to Contractor, a Certificate For Payment for such amount as University's Representative determines to be properly due.

MODIFICATION OF GENERAL CONDITIONS, ARTICLE 11 - INSURANCE AND BONDS

Insurance required by Paragraphs 11.1.2.1 and 11.1.2.2 shall be (i) issued by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's) or (ii) guaranteed, under terms consented to by the University (such consent to not be unreasonably withheld), by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's). Such insurance shall be written for not less than the following:

		Minimum Requirement
11.1.2.1	Commercial Form General Liability Insurance-Limits of Liability	
	Each Occurrence-Combined Single Limit for Bodily Injury and Property	$1,000,000
	Products-Completed Operations Aggregate	$2,000,000
	Personal and Advertising Injury	$1,000,000
	General Aggregate	$2,000,000

Insurance required by Paragraphs 11.1.2.1 and 11.1.2.2 shall be (i) issued by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's) or (ii) guaranteed, under terms consented to by the University (such consent to not be unreasonably withheld), by companies with a Best rating of A- or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's). Such insurance shall be written for not less than the following:

		Minimum Requirement
11.1.2.2	Business Automobile Liability Insurance-Limits of Liability	
	Each Accident-Combined Single Limit for Bodily Injury and Property Damage	$2,000,000

Insurance required by Paragraph 11.1.2.3 shall be issued by companies (i) that have a Best rating of B+ or better, and a financial classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's); or (ii) that are acceptable to the University. Such insurance shall be written for not less than the following:

11.1.2.3 WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY – (as required by Federal and State of California law).

SUPPLEMENTARY CONDITIONS

1. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 3 – CONTRACTOR

Article 3.13.2 is replaced as follows:

3.13.2 Contractor shall, on a daily basis during performance of the Work, keep the Project site and surrounding area free from the accumulation of dirt, waste materials, and rubbish caused by Contractor. If cleanup is not performed on a daily basis, University may perform cleanup as necessary, and allocate the cost for such cleanup between those firms responsible. Contractor shall remove all dirt, waste material, and rubbish caused by Contractor, along with any tools, equipment, machinery, and surplus materials from the Project site and surrounding area at the completion of the Work. Cleanup of unclean jobsite conditions must be within 24 hours after such notice has been given to Contractor by University's Representative.

The following article is added to Article 3 of the General Conditions:

3.22 DAILY REPORTS

3.22.1 Contractor shall submit daily reports, on the form contained in the Exhibits, to the University's Representative not later than 2:00 p.m. each workday.

2. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 3 – CONTRACTOR

Article 3.8.4 is replaced as follows:

3.8. SUPERINTENTENT

3.8.4 The Superintendent may perform the Work of any trade, pickup materials, or perform any Work not directly related to the supervision and coordination of the Work at the Project site when Work is in progress.

3. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 7 - CHANGES IN THE WORK

The following article is added to Article 7 of the General Conditions:

7.7. LETTER OF INSTRUCTION

7.7.1 The University's Representative may issue Letter of Instruction (as shown in Exhibit 26) which make interpretations or clarifications of the Contract Documents that do not change the scope of Work or involve an adjustment of the Contract Sum or the Contract Time and that are consistent with the intent of the Contract Documents. Letter of Instruction shall be binding upon Contractor. Contractor shall promptly carry out the requirements of such Letter of Instruction.

4. MODIFICATION OF GENERAL CONDITIONS, ARTICLE 8 - CONTRACT TIME

8.4.1.6.11 "Rainy weather", but only for such days of rain that are in excess of the number of days specified:

October – 1 day
November – 2 days
December -3 days
January – 5 days
February - 6 days
March – 5 days
April – 3 days
May – September – 0 days

In order for a day to be considered a "day of rainy weather" for the purpose of determining whether Contractor is entitled to a time extension, all of the following conditions must be met:

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Exhibit 1	Certificate of Insurance
Exhibit 2	Payment Bond
Exhibit 3	Performance Bond
Exhibit 4	Application for Payment
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Exhibit 5B	Escrow Agreement for Deposit of Securities In Lieu of Retention and Deposit of Retention
Exhibit 7	Cost Proposal
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Exhibit 9	Change Order/Contract Amendment
Exhibit 10	Conditional Waiver and Release Upon Progress Payment
Exhibit 10A	Conditional Waiver and Release Upon Final Payment
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Exhibit 28	Subcontractor Claim Certification
Exhibit 29	Subcontractor Daily Report
Exhibit 30	Welding/Hot Work Permit
Exhibit 31	Inspection/Testing Request
Exhibit 32	Notice of Completion

EXHIBIT 1 – CERTIFICATE OF INSURANCE

DATE ISSUED:

BROKER/AGENT	COMPANIES AFFORDING COVERAGE
	COMPANY **A**
	COMPANY **B**
NAMED INSURED	COMPANY **C**
	COMPANY **D**

COVERAGES

This is to certify that policies of insurance listed below have been issued to the insured named above for the policy period indicated. This certificate or verification of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFF. DATE (M/D/Y)	POLICY EXP. DATE (M/D/Y)		LIMITS	DEDUCTIBLE
	GENERAL LIABILITY ☐ COMMERCIAL FORM ☐ CLAIMS MADE ☐ OCCURRENCE ☐ SEVERABILITY OF INTEREST CLAUSE ☐ CROSS LIABILITY CLAUSE				GENERAL AGGREGATE	$	**$**
					PRODUCTS/COMPLETED OPERATIONS AGGREGATE	$	
					PERSONAL & ADVERTISING INJURY	$	
					EACH OCCURRENCE	$	
					FIRE DAMAGE (ANY ONE FIRE)	$	
					MEDICAL EXPENSE (ANY ONE PERSON)	$	
	AUTOMOBILE LIABILITY ☐ ANY AUTO (CODE 1) ☐ ALL OWNED AUTOS (CODE 2) ☐ SCHEDULED AUTOS (CODE 7) ☐ HIRED AUTOS (CODE 8) ☐ NON-OWNED AUTOS (CODE 9) ☐ OTHER				CSL	$	**$**
					BODILY INJURY (PER PERSON)	$	
					BODILY INJURY (PER ACCIDENT)	$	
					PROPERTY DAMAGE	$	
	EXCESS LIABILITY ☐ UMBRELLA FORM ☐ OTHER ☐ CLAIMS MADE OCCURRENCE				EACH OCCURRENCE **$**	AGGREGATE **$**	
	PROFESSIONAL LIABILITY* ☐ CLAIMS MADE ☐ OCCURRENCE				EACH OCCURRENCE **$**	AGGREGATE **$**	
	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY*				**AS REQUIRED BY FEDERAL AND CALIFORNIA LAW**		

SPECIAL PROVISIONS:

*Special Provision #1 and #2 below do not apply to this coverage.

1. THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, ITS OFFICERS, AGENTS, EMPLOYEES, CONSULTANTS, REPRESENTATIVES, AND REPRESENTATIVE'S CONSULTANTS ARE INCLUDED AS ADDITIONAL INSURERS BUT ONLY IN CONNECTION WITH **2020 2A Basement & 1st Floor relocaction**
2. THIS INSURANCE SHALL BE PRIMARY INSURANCE AS RESPECTS THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, ITS OFFICERS, AGENTS, AND EMPLOYEES. ANY INSURANCE OR SELF-INSURANCE MAINTAINED BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA SHALL BE EXCESS OF AND NONCONTRIBUTORY WITH THIS INSURANCE.
3. THE PROVISIONS UNDER PARAGRAPHS (1&2) OF THIS SECTION, "SPECIAL PROVISIONS", SHALL APPLY TO CLAIMS, COSTS, INJURIES OR DAMAGES BUT ONLY IN PROPORTION TO AND TO THE EXTENT SUCH CLAIMS, COSTS, INJURIES, OR DAMAGES ARE CAUSED BY OR RESULT FROM THE NEGLIGENT ACTS OR OMISSIONS OF THE NAMED INSURED.
4. SHOULD ANY OF THE INSURANCE PROGRAMS DESCRIBED HEREIN BE MATERIALLY MODIFIED OR CANCELED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL MAIL THIRTY (30) DAYS (TEN [10] DAYS FOR NON-PAYMENT OF PREMIUM) WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED BELOW.

CERTIFICATE HOLDER: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA.
FORWARD TO:
Design & Construction
UNIVERSITY OF CALIFORNIA, MERCED
5200 N. Lake Rd
Merced, CA 95343

THE UNDERSIGNED CERTIFIES THAT HE/SHE IS AUTHORIZED TO SIGN THIS CERTIFICATE AND THAT THE SPECIAL PROVISIONS DESCRIBED HEREIN HAVE BEEN MADE A PART OF THE POLICY(IES) SHOWN ABOVE.

AUTHORIZED REPRESENTATIVE

Bond No.: _____

PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS:

THAT WHEREAS, The Regents of the University of California ("The Regents") has awarded to _____ as Principal a contract dated the _____ day of _____, 2019 (the "Contract") for the work described as follows:

BSP AND HAC RELOCATION
UNIVERSITY OF CALIFORNIA MERCED CAMPUS
MERCED COUNTY, MERCED CALIFORNIA

AND WHEREAS, Principal is required to furnish a bond in connection with the Contract to secure the payment of claims of laborers, mechanics, material suppliers, and other persons as provided by law;

NOW, THEREFORE, we, the undersigned Principal and _____ _____ as Surety, are held and firmly bound unto The Regents in the sum of $_____ for which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal, or its heirs, executors, administrators, successors, or assigns approved by The Regents, or its subcontractors shall fail to pay any of the persons named in State of California Civil Code Section 3181, or amounts due under the State of California Unemployment Insurance Code with respect to work or labor performed under the Contract, or for any amounts required to be deducted, withheld, and paid over to the State of California Employment Development Department from the wages of employees of Principal and subcontractors pursuant to Section 13020 of the State of California Unemployment Insurance Code with respect to such work and labor, that Surety will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall become and be null and void.

This bond shall inure to the benefit of any of the persons named in State of California Civil Code Section 3181 as to give a right of action to such persons or their assigns in any suit brought upon this bond.

Surety, for value received, hereby expressly agrees that no extension of time, change, modification, alteration, deletion, or addition to the undertakings, covenants, terms, conditions, and agreements of the Contract, or to the work to be performed thereunder, shall in any way affect the obligation of this bond; and it does hereby waive notice of any such extension of time, change, modification, alteration, deletion, or addition to the undertakings, covenants, terms, conditions, and agreements of the Contract, or to the work to be performed thereunder.

Surety's obligations hereunder are independent of the obligations of any other surety for the payment of claims of laborers, mechanics, material suppliers, and other persons in connection with the Contract; and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing The Regents' rights against the others.

In the event suit is brought upon this bond, the parties not prevailing in such suit shall pay reasonable attorneys' fees and costs incurred by the prevailing parties in such suit.

Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.

IN WITNESS WHEREOF, we have hereunto set our hands this _____ day of _____, 20 .

Principal:	_____	Surety:	_____
	(Name of Firm)		(Name of Firm)
By:	_____	By:	_____
Title:	_____	Title:	_____

Address for Notices:

_____

_____

_____

NOTE: Notary acknowledgement for Surety and Surety's Power of Attorney must be attached.

Bond No.:_____

PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS:

THAT WHEREAS, The Regents of the University of California ("The Regents") has awarded to _____ as Principal a contract dated the _____ day of _____, 2019 (the "Contract"), which Contract is by this reference made a part hereof, for the work described as follows:

SRE LABORATORY & OFFICE RELOCATION
UNIVERSITY OF CALIFORNIA MERCED CAMPUS
MERCED COUNTY, MERCED CALIFORNIA

AND WHEREAS, Principal is required to furnish a bond in connection with the Contract, guaranteeing the faithful performance thereof;

NOW, THEREFORE, we, the undersigned Principal and _____ _____ as Surety are held and firmly bound unto The Regents in the sum of $_____, to be paid to The Regents or its successors and assigns; for which payment, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal, or its heirs, executors, administrators, successors, or assigns approved by The Regents, shall promptly and faithfully perform the covenants, conditions, and agreements of the Contract during the original term and any extensions thereof as may be granted by The Regents, with or without notice to Surety, and during the period of any guarantees or warranties required under the Contract, and shall also promptly and faithfully perform all the covenants, conditions, and agreements of any alteration of the Contract made as therein provided, notice of which alterations to Surety being hereby waived, on Principal's part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify, defend, protect, and hold harmless The Regents as stipulated in the Contract, then this obligation shall become and be null and void; otherwise it shall be and remain in full force and effect.

No extension of time, change, alteration, modification, or addition to the Contract, or of the work required thereunder, shall release or exonerate Surety on this bond or in any way affect the obligation of this bond; and Surety does hereby waive notice of any such extension of time, change, alteration, modification, or addition.

Whenever Principal shall be and declared by The Regents to be in default under the Contract, Surety shall promptly remedy the default, or shall promptly:

1. Undertake through its agents or independent contractors, reasonably acceptable to The Regents, to complete the Contract in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages, or, at Surety's election, or, if required by The Regents.

2. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and, upon determination by The Regents of the lowest responsible bidder, arrange for a contract between such bidder and The Regents and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract Sum, and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages; but, in any event, Surety's total obligations hereunder shall not exceed the amount set forth in the third paragraph hereof. The term "balance of the Contract Sum," as used in this paragraph, shall mean the total amount payable by The Regents to the Principal under the Contract and any amendments thereto, less the amount paid by The Regents to Principal.

Surety's obligations hereunder are independent of the obligations of any other surety for the performance of the Contract, and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing The Regents' rights against the others.

No right of action shall accrue on this bond to or for the use of any person or corporation other than The Regents or its successors or assigns.

Surety may join in any arbitration proceedings brought under the Contract and shall be bound by any arbitration award.

In the event suit is brought upon this bond by The Regents, Surety shall pay reasonable attorney's fees and costs incurred by The Regents in such suit.

Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.

IN WITNESS WHEREOF, we have hereunto set our hands this _____ day of _____ _____, 20 .

Principal:	_____	Surety:	_____
	(Name of Firm)		(Name of Firm)
By:	_____	By:	_____
Title:	_____	Title:	_____
			_____

Address for Notices:

_____

_____

_____

NOTE: Notary acknowledgement for Surety and Surety's Power of Attorney must be attached.

APPLICATION FOR PAYMENT

Number: _____ Period to: _____

TO UNIVERSITY: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, MERCED, UNIVERSITY OF CALIFORNIA, 5200 N. LAKE ROAD, MERCED, CA 95344 AND UNIVERSITY'S REPRESENTATIVE:

FROM CONTRACTOR: _____
ADDRESS: _____
PROJECT NAME:
PROJECT NUMBER: _____
FACILITY: University of California, Merced
CONTRACT DATE: _____
APPLICATION DATE: _____

CHANGE ORDER SUMMARY: Additions Deductions

Change Orders approved in previous months: Total: _____

Change Orders approved this month:
Number: Date Approved:
_____ _____
_____ _____
_____ _____
Total: _____

NET CHANGE BY CHANGE ORDERS: _____

Application is made for payment under the Contract as shown below and in Schedule 1 attached hereto:

1. ORIGINAL CONTRACT SUM $_____
2. NET CHANGE BY CHANGE ORDERS $_____
3. CONTRACT SUM TO DATE (Line 1 ± Line 2) $_____
4. TOTAL AMOUNT COMPLETED TO DATE (Column E on Schedule 1) $_____
5. RETENTION: 5% of Completed Work (Column H on Schedule 1)* $_____
   a. Current Value of Securities Deposited in Escrow $_____
   b. Current Value of Retention Deposited in Escrow $_____
   c. Retention Held by University $_____
   Current Retention Value (a + b + c) $_____
6. TOTAL EARNED LESS RETENTION (Line 4 less Line 5) $_____
7. TOTAL AMOUNT PREVIOUSLY PAID $_____
8. CURRENT PAYMENT DUE (Line 6 less Line 7) $_____
9. BALANCE TO FINISH, PLUS RETENTION (Line 3 less Line 6) $_____

*Pursuant to Article 9.2.2 of the General Conditions.

The undersigned Contractor hereby represents and warrants to University that all Work, for which Certificates For Payment have previously been issued and payment received from University, is free and clear of all claims, stop notices, security interests, and encumbrances in favor of Contractor, any Subcontractor, and any other persons or firms entitled to make claims by reason of having provided labor, materials, or equipment related to the Work.

The following Schedules are attached and incorporated herein, and made a part of this Application For Payment:

Schedule 1 Cost Breakdown Schedule
Schedule 2 Certification of Current Market Value of Securities in Escrow in Lieu of Retention
Schedule 3 List of Subcontractors
Schedule 4 Declaration of Releases of Claims

_____
(Contractor)

By: _____
(Name)

_____
(Title)

DECLARATION

I, _____, hereby declare that I am the

_____ of Contractor submitting this Application For Payment; that I am duly authorized to execute and deliver this Application For Payment on behalf of Contractor; and that all information set forth in this Application For Payment and all Schedules attached hereto are true, accurate, and complete as of its date.

I declare, under penalty of perjury, that the foregoing is true and correct and that this declaration was subscribed at

_____, _____, State of _____

on _____, 20___.

_____
(Signature)

_____
(Print Name)

SRE LABORATORY & OFFICE RELOCATION
UNIVERSITY OF CALIFORNIA, MERCED
MERCED, CALIFORNIA

Project No.: 2020

PROJECT NAME: _____

PROJECT NUMBER: _____

FACILITY: University of California, Merced

CONTRACT DATE: _____

APPLICATION NUMBER: _____

APPLICATION DATE: _____

PERIOD TO: _____

CONTRACTOR: _____

SCHEDULE 1

TO

APPLICATION FOR PAYMENT

COST BREAKDOWN

A ITEM NO.	B DESCRIPTION OF WORK ACTIVITY OR OTHER ITEM	C SCHEDULED VALUE	D % COMPLETE TO DATE	E TOTAL AMOUNT COMPLETED TO DATE (C x D)	F TOTAL AMOUNT COMPLETED ON PRIOR APPLICATION FOR PAYMENT	G AMOUNT OF THIS APPLICATION (E - F)	H RETENTION (5% x E)
001	Bonds/Insurance						
002	Mobilization						
003	Submittals						
004	Shop Drawings						
005							
006	As-built Update						
007	Closeout Documents						
008	Punchlist						
009	Warranty						
010	Commissioning/ Start Up						

PROJECT NAME: _____

CONTRACTOR: _____

PROJECT NUMBER: _____

APPLICATION NUMBER: _____

SCHEDULE 2
TO
APPLICATION FOR PAYMENT

CERTIFICATION OF CURRENT MARKET VALUE
OF SECURITIES IN ESCROW IN LIEU OF RETENTION

As of _____, 20___ (not earlier than 5 days prior to the date of the Application For Payment of which this certification is a part), the aggregate market value of securities on deposit in Escrow

Account No. _____ with _____
(Escrow Agent)

is _____ Dollars ($_____).

_____	_____
(Escrow Agent)	(Contractor)
By: _____	_____
(Name)	(Name)
_____	_____
(Title)	(Title)
Date: _____	Date:_____

NOTE: Notary acknowledgment for Contractor and Escrow Agent must be attached.

PROJECT NAME: _____

CONTRACTOR: _____

PROJECT NUMBER: _____

APPLICATION NUMBER: _____

SCHEDULE 3
TO
APPLICATION FOR PAYMENT

LIST OF SUBCONTRACTORS

Subcontractors listed below are all Subcontractors furnishing labor, services, or materials for the period referred to in the Application For Payment referenced above, of which this Schedule 3 is a part:

Name of Subcontractor	Subcontracted Work Activity	Date Work Activity Completed

_____
(Contractor)

By: _____
(Name)

_____
(Title)

Date:_____

PROJECT NAME: _____

CONTRACTOR: _____

PROJECT NUMBER: _____

APPLICATION NUMBER: _____

SCHEDULE 4
TO
APPLICATION FOR PAYMENT

DECLARATION OF RELEASE OF CLAIMS

Contractor hereby certifies that attached hereto are releases and waivers of claims and stop notices from all Subcontractors furnishing labor, services, or materials covered by the Certificate For Payment dated _____, 20___, except those listed below:

_____
(Contractor)

By: _____
(Name)

_____
(Title)

Date: _____

SELECTION OF RETENTION OPTIONS

I (we): _____
(Contractor)

SELECTION OPTION 1 _____ Check here for Option 1

University will withhold retention

OR SELECTION OPTION 2 _____ Check here for Option 2

herewith elect to substitute securities in the form of:

_____
(Type of security)

in lieu of retention being withheld by University for the above-referenced project.

OR SELECT OPTION 3 _____ Check here for Option 3

herewith elect to have retention on the above-referenced project paid directly into the Escrow Account.

_____
(Type of Security to be purchased)

An Escrow Account will be opened with**:

_____
(Name of state or federally chartered bank in California)

whose address is:

_____
(Street)

_____
(City, County)

_____
(State, Zip Code)

On Behalf of Contractor*	On Behalf of University Acknowledged and Approved
_____	_____
(Signature)	(Signature)
_____	Michael McLeod
(Printed Name)	(Printed Name)
_____	Vice Chancellor/Chief Operating Officer Physical Operations, Planning & Development
(Title)	(Title)

***Signature shall be by the authorized party who signs the Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention ("Escrow Agreement").**

**** Note: Contractor and its surety bear the risk of failure of the bank selected.**

Note: If a completed and signed Escrow Agreement is not submitted with this form, University will not allow deposit of securities in lieu of retention.

RETURN THIS AGREEMENT SIGNED BY CONTRACTOR AND ESCROW AGENT TO: PHYSICAL PLANNING DESIGN AND CONSTRUCTION, UNIVERSITY OF CALIFORNIA, MERCED, 5200 N. LAKE RD, MERCED CA 95343.

Escrow Account No.: _____

ESCROW AGREEMENT FOR
DEPOSIT OF SECURITIES IN LIEU OF RETENTION
AND
DEPOSIT OF RETENTION

This Escrow Agreement is made as of _____,_____, and entered into by and between THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, whose address is University of California, Office of the President, 1111 Franklin Street, 6th Floor, Oakland, CA 94607-5200, hereinafter called "University," and

_____,

whose address is _____,

hereinafter called "Contractor," and _____,

a state or federally chartered bank in the state of California, whose address is:

_____,

hereinafter called "Escrow Agent."

For consideration hereinafter set forth, University, Contractor, and Escrow Agent agree as follows:

(1) Contractor has the option to deposit securities with Escrow Agent as a substitute for retention required to be withheld by University pursuant to the Contract Documents, hereinafter referred to as "Contract," entered into between University and Contractor for the Project titled **EMERCENCY EYEWASH CORRECTION PROJECT NO.; 907024** in the amount of $_____, dated _ _____. Alternatively, on written request of Contractor, University shall deposit retention directly with Escrow Agent. When Contractor deposits the securities as a substitute for retention, Escrow Agent shall notify University within 5 days after the deposit. At all times, Contractor shall have on deposit securities the market value of which is at least equal to the cash amount then required to be withheld as retention under the terms of the Contract. Securities shall be held in the name of The Regents of the University of California, Merced Campus (Facility); and Contractor shall be designated as the beneficial owner.

(2) Escrow Agent shall review the market value of securities deposited in escrow under this Escrow Agreement as often as conditions of the securities market warrant, but in no case less than once per month. Escrow Agent shall promptly notify University and Contractor of the market value of the deposited securities if such market value is less than the total amount of retention required to be withheld under the terms of the Contract. Contractor shall promptly deposit additional securities so that the current market value of the total of all deposited securities shall be at least equal to the total required amount of retention. Escrow Agent shall, within 5 days after University's request, provide a statement to University of the current market value of all securities deposited under this Escrow Agreement as of a date not earlier than 5 days prior to such request. The provisions of this Paragraph 2 shall not apply to securities consisting of monetary deposits as allowed by Paragraph 7 held by a bank as Escrow Agent, provided the bank provides monthly statements reflecting the status of the monetary deposits held by the bank to University and Contractor.

(3) Contractor shall not use any or all of the securities deposited in lieu of retention under this Escrow Agreement for any other obligations, including deposits in lieu of retention for other contracts. Contractor represents, covenants and warrants that all deposited securities shall be lien free when tendered to the Escrow Agents and shall remain lien free during their retention by the Escrow Agent.

(4) University shall make progress payments to Contractor for those funds which otherwise would

be withheld from progress payments pursuant to the Contract provision, provided that Escrow Agent holds securities in the form and amount specified herein.

(5) Prior to Contractor's submission of each Application For Payment, Escrow Agent shall issue a current statement of (a) the value of the securities currently being deposited in lieu of retention and (b) the current value of all securities being held in escrow pursuant to this Escrow Agreement. Such statement shall be no more than 5 days old at the time of submission, shall be notarized or have a guarantee of signature, and shall be submitted to Contractor with a copy to University under separate cover. Contractor shall attach such original statement to each Application For Payment. The provisions of this Paragraph 5 shall not apply to securities consisting of monetary deposits as allowed by Paragraph 7 held by a bank as Escrow Agent, provided the bank provides monthly statements reflecting the status of the monetary deposits held by the bank to University and Contractor.

(6) If, at the request of Contractor, University deposits retention directly with Escrow Agent, Escrow Agent shall hold such retention for the benefit of Contractor until such time as the escrow created under the Contract is terminated. All terms and conditions of this Escrow Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when University deposits retention directly with Escrow Agent.

(7) University will allow Contractor to deposit the following securities in lieu of retention and direct the investment of the retention deposits into any of the following which at the time of payment are legal investments under the laws of the State of California:

a. Direct obligations of the United States of America (including obligations issued or held in book-entry form on the books of the Department of the Treasury of the United States of America or any Federal Reserve Bank), or obligations the timely payment of the principal of and interest on which are fully guaranteed by the United States of America, or tax-exempt obligations which are rated in the highest rating category of a nationally recognized bond rating agency.

b. Obligations, debentures, notes or other evidence of indebtedness issued or guaranteed by any of the following: Banks for Cooperatives, Federal Intermediate Credit Banks, Federal Home Loan Bank System, Export-Import Bank of the United States, Federal Financing Bank, Federal Land Banks, Federal Farm Credits, Government National Mortgage Association, Farmer's Home Administration, Federal Home Loan Mortgage Corporation, or Federal Housing Administration.

c. Bonds of the State of California or those for which the faith and credit of the State of California are pledged for the payment of principal and interest.

d. Interest-bearing bankers acceptances and demand or time deposits (including certificates of deposit) in banks, provided such deposits are either (1) secured at all times, in the manner and to the extent provided by law, by collateral security described in clauses a or b of this Paragraph 7 continuously having a market value at least equal to the amount so invested so long as such underlying obligations or securities are in the possession of the Securities Investors Protection Corporation, (2) in banks having a combined capital and surplus of at least One Hundred Million Dollars, or (3) fully insured by the Federal Deposit Insurance Corporation.

e. Taxable government money market portfolios restricted to obligations with maturities of one (1) year or less, issued or guaranteed as to payment of principal and interest by the full faith and credit of the United States of America.

f. Commercial paper rated in the highest rating category of a nationally recognized rating agency, and issued by corporations organized and operating within the United States of America and having total assets in excess of Five Hundred Million Dollars.

(8) Contractor shall be responsible for paying all fees, costs, and expenses incurred by Escrow Agent in administering the escrow account. These expenses and payment terms shall be determined by

Contractor and Escrow Agent. All fees, costs, and expenses of this Escrow Agreement and any transactions carried out hereunder shall be billed by Escrow Agent to Contractor. In the event that any fees, costs, or expenses shall remain unpaid in excess of 30 days from the date due, Escrow Agent may withhold such unpaid amount from any income distributable to Contractor, but shall not withhold such unpaid amount from any income distributable to University.

(9) Interest earned on the securities or the money market accounts held in escrow and all interest earned on the interest shall be for the sole account of Contractor and shall be held in escrow. Interest may be withdrawn by Contractor from time to time, without notice to University, only to the extent that the total amount held in escrow meets or exceeds the required amount of retention.

(10) Except as provided in Paragraph 9, Contractor shall have the right to withdraw all or any part of the escrow account only by written notice to Escrow Agent accompanied by written authorization from University to Escrow Agent stating that University consents to the withdrawal of the amount sought to be withdrawn by Contractor. University shall not be obligated to consent to any withdrawal to the extent of stop notice claims which cannot be satisfied from other funds then due and payable to Contractor.

(11) University shall have the right to draw upon the securities, any interest earned on the securities, and any interest earned on the interest in the event of default by Contractor. Upon 7 days written notice to Escrow Agent from University, with a copy to Contractor, Escrow Agent shall immediately convert the securities, any interest earned on the securities, and all interest earned on the interest to cash and shall distribute the cash as instructed by University. Escrow Agent shall have no duty to determine whether a default has occurred and may rely solely upon the written notice of such default from University.

(12) Upon receipt of written notification from University certifying that final payment is due under the Contract, Escrow Agent shall release to Contractor the amount, if any, by which the value of all securities and interest on deposit less escrow fees and charges of the escrow account exceeds 125% of all stop notice claims on file. Escrow Agent shall pay the remaining amount to University or as directed by University. The escrow shall be closed immediately upon disbursement of all monies and securities on deposit and payment of fees and charges.

(13) Escrow Agent shall rely upon the written notifications from University and Contractor pursuant to this Escrow Agreement; and University and Contractor shall hold Escrow Agent harmless from Escrow Agent's release, conversion, and disbursement of the securities and interest as set forth herein.

(14) Escrow Agent shall have the right to terminate this Escrow Agreement upon 30 days notice to all parties hereunder. Upon receipt of such notice, University and Contractor shall appoint a successor Escrow Agent in writing and deliver written notice of such appointment to Escrow Agent. Thereupon, Escrow Agent shall deliver all assets in its custody to such successor Escrow Agent and all responsibility of Escrow Agent under this Escrow Agreement shall terminate; provided, however, if Contractor and University fail to appoint a successor Escrow Agent on or before the end of the 30 day notice period, then Escrow Agent is authorized and instructed to return all assets, documents, and other items in its custody to University and this Escrow Agreement shall be terminated without further instruction.

(15) The duties and responsibilities of Escrow Agent shall be limited to those expressly set forth in this Escrow Agreement; provided, however, that, with Escrow Agent's written consent, the duties and responsibilities in this Escrow Agreement may be amended at any time or times by an instrument in writing signed by all parties.

(16) Whenever Contractor tenders securities to be deposited in lieu of retention, an authorized representative of the Contractor shall declare under penalty of perjury that the securities are lien free and shall remain lien free during their retention by the Escrow Agent. The declaration shall be in the following form:

"The undersigned, on behalf of _____(Name of Contractor) whose address is _____ (Street Address, City, State, Zip Code) represents, covenants and warrants that the securities tendered herewith are lien free and shall remain lien free during their retention by the Escrow Agent.
I, _____ (Name), hereby declare that I am the _____ (Title) of _____ _____ (Name of Contractor), that I am duly authorized to make this representation, and that I declare under perjury under the laws of the State of California that the foregoing is true and correct."

_____ (Signature)

_____ (Date)

(17) The names of the persons authorized to give written notice or to receive written notice on behalf of University and on behalf of Contractor in connection with this Escrow Agreement, and exemplars of their respective signatures, are as set forth below. Such names may be changed by written notice to the other parties.

On behalf of University:

1.

_____ (Name)

_____ (Signature)

_____ (Telephone Number)

2.

_____ (Name)

_____ (Signature)

_____ (Telephone Number)

On behalf of Contractor:

1.

_____ (Name)

_____ (Signature)

_____ (Telephone Number)

2.

_____ (Name)

_____ (Signature)

_____ (Telephone Number)

Contractor, Escrow Agent, and University hereby agree to the covenants contained herein.

IN WITNESS WHEREOF, Contractor, Escrow Agent, and University have executed this Escrow Agreement, the day and year first written above.

University:

By

_____
(Signature)

_____
(Printed Name)

_____
(Title)

_____
(Telephone Number)

By

_____
(Signature)

_____
(Printed Name)

_____
(Title)

_____
(Telephone Number)

Contractor:

By

_____
(Signature)

_____
(Printed Name)

_____
(Title)

_____
(Telephone Number)

By

_____
(Signature)

_____
(Printed Name)

_____
(Title)

_____
(Telephone Number)

Escrow Agent:

By: _____
(Signature)

_____
(Printed Name)

_____
(Title)

_____
(Telephone Number)

SUBMITTAL SCHEDULE
(Refer to Section 01 33 23 Shop Drawings, Project Data and Samples)

PROJECT NAME: SRE LABORATORY & OFFICE RELOCATION
Project No.: 2020
UNIVERSITY OF CALIFORNIA, MERCED
MERCED, CALIFORNIA

PROJECT NO: 90

FACILITY: CONSTRUCTION,
UNIVERSITY OF CALIFORNIA, MERCED CAMPUS

CONTRACT DATE: _____

Contractor /SUBCONTRACTOR: _____

SPECIFICATION SECTION: _____

WORK ACTIVITY: _____

Event	Scheduled Completion Date	Actual Completion Date	Calendar Days Required to Complete
1. Received by Contractor and Time for Checking			
2. First Delivered to University's Representative and Time for Checking			
3. Return to Contractor			
4. Corrections Completed and Time for Corrections			
5. Next Delivered to University's Representative and Time for Checking			
6. Return to Contractor			
7. Approval for Job Information			
8. Approval for Fabrication and Time for Fabrication			
9. Fabrication Completed			
10. Shipping Date and Time en Route			
11. Delivery to Job			

COST PROPOSAL

Date: _____ Change Request No.:_____

Project Name: BSP AND HAC RELOCATION
UNIVERSITY OF CALIFORNIA, MERCED
MERCED, CALIFORNIA

Project No: **908090**

Facility: DESGIN & CONSTRUCTION
UNIVERSITY OF CALIFORNIA MERCED
MERCED CALIFORNIA

Contract Date:

SCOPE OF CHANGE:
INSTRUCTIONS:
Complete this form by providing (a) all information required above, (b) the amount and justification based upon the Contract Schedule for any proposed adjustment of Contract Time, (c) the proposed adjustment of Contract Sum, (d) the attached "Cost Proposal Summary," and (e) the attached form titled, "Supporting Documentation for the Cost Proposal Summary."

1. Attach the form titled "Supporting Documentation for the Cost Proposal Summary" for Contractor and each Subcontractor involved in the Extra Work. Each such form shall be completed and signed by Contractor or Subcontractor actually performing the Work activity identified on the form. Attach supporting data to each such form to substantiate the individually listed costs. The costs provided on these forms shall be used to substantiate Additional Costs shown on the Cost Proposal Summary.

2. The Contractor Fee shall be computed on the Cost of Extra Work of Contractor and each Subcontractor involved in the Extra Work; and shall constitute full compensation for all costs and expenses related to the subject change and not listed in the "Supporting Documentation for the Cost Proposal Summary," including overhead and profit.

3. Refer to Article 7.3 of the General Conditions for the method of computing the Contractor Fee.

Adjustment of the Contract Time (Include justification based upon the Contract Schedule):

Refer to Article 8 of the General Conditions. _____ (Days)

Adjustment of the Contract Sum (Total Additional Cost from Cost Proposal Summary): $ _____

Refer to Article 7 of the General Conditions.

Submitted:	Received:
(Contractor)	(University's Representative)
By:	By:
Title:	Title:
Date:	Date:

COST PROPOSAL SUMMARY

Project Name: _____ Change Request No.: _____
Project No.: _____ Contractor Name: _____
Facility: University of California, Merced

		(1) Contractor	(2) 1st Tier Subs	(3) 2nd & Lower Tier Subs	(4) Total
ACTUAL COSTS	1. Straight Time Wages/Salaries - Labor				
	2. Fringe Benefits and Payroll Taxes - Labor				
	3. Overtime Wages/Salaries - Labor				
	4. Fringe Benefits and Payroll Taxes - Overtime				
	5. Materials and Consumable Items				
	6. Sales Taxes (On line 5)				
	7. Rental Charges				
	8. Royalties				
	9. Permits				
	10. Actual Costs (Sum of lines 1-9)				
	11. Insurance & Bonds (up to 2% of line 10)				
CONTRACTOR FEE	12. Sub-Sub (15% of line 10; col. 3)				
	13. Subcontractor (5% of line 10; col. 3)				
	14. Subcontractor (15% of line 10; col. 2)				
	15. Contractor (5% of line 10; col. 2 & 3)				
	16. Contractor (15% of line 10; col. 1)				
	17. Contractor Fee (Sum of lines 12-16)				
	18. Sum of lines 10, 11, & 17				

Actual Costs are taken from line 12 of the attached forms titled, “Supporting Documentation For the Cost Proposal Summary” for Contractor and each Subcontractor involved in the Extra Work.

SUPPORTING DOCUMENTATION FOR THE COST PROPOSAL SUMMARY

Contractor/Subcontractor Name: _____ Change Order Request No.: _____
Work Activity _____ Project No.: 907265
Facility University of California, Merced

COST ITEM		COST (1)
ACTUAL COSTS	1. Straight Time Wages/Salaries -- Labor	
	2. Fringe Benefits and Payroll Taxes -- Labor: _____ % of line 1	
	3. Overtime Wages/Salaries - Labor (Attach University Representative's written authorization)	
	4. Fringe Benefits and Payroll Taxes -- Overtime: _____ % of line 3	
	5. Materials and Consumable items	
	6. Sales Taxes: _____ % of line 5	
	7. Rental Charges (attach U.S. Army Corps of Engineers' Schedule)	
	8. Royalties	
	9. Permits	
	10. Total Direct Expense -- sum of lines 1-9	
	11. Insurance and Bonds: _____ % of line 10 (up to 2% of line 10)	
TOTAL	12. Sum of lines 10 and 11	

(Company Name)	(Company Name)
(Signature) (2)	(Signature) (3)
(Title)	(Title)
(Date)	(Date)

NOTES:
(1) Round-off all Costs to the nearest dollar.
(2) This form shall be prepared and signed by Contractor or Subcontractor actually performing the Work activity indicated above.
(3) If this form is signed by a Subcontractor, it shall be reviewed and signed by Contractor certifying the accuracy of the information.

FIELD ORDER No.: 001

Project Name: 2020 BSP AND HAC RELOCATION
Project Number: 908090
To CM/Contractor:
Address:

DESCRIPTION OF CHANGE:
Date:
PCO #:

Please provide a Cost Proposal within 7 days of receipt of this Field Order.

In accordance with the General Conditions, Article 7, Paragraph 7.3.6; As a condition to General Contractor's right to an adjustment of the Contract Sum, pursuant to Article 7.3.5.3; General Contractor must keep detailed and accurate records itemizing each element of cost and shall provide substantiating records and documentation, including time cards and invoices. Such records and documentation shall be submitted to and approved University's Representative on a daily basis.

The PTC must follow all procedures set forth and submit per Article 4 of the General Conditions.

Estimated Adjustment
of Contract Sum: $0

Estimated Adjustment
of Contract Time:

By:

(Signature)

(Title)

Date:

Sara Mitchell
(University Representative)

(Signature)

Director of Construction Services
(Title)

Date:

NOTE: This Field Order will be superseded by a Change Order that will include the scope of the change in the Work and any actual adjustments of the Contract Sum and the Contract Time. Field Order shall only be used for Work currently under contract; and shall not be used to modify Option Sum or Option Time.

CHANGE ORDER

University of California Facility: Merced Campus

Change Order No. _____ Reference Field Order No. _____

PROJECT NAME:	BSP AND HAC RELOCATION		
PROJECT LOCATION:	UNIVERSITY OF CALIFORNIA, MERCED		
PROJECT NO:	908090	CONTRACT DATE:	
TO CONTRACTOR:			
ADDRESS:			

DESCRIPTION OF CHANGE:

ADJUSTMENT OF CONTRACT SUM:

Original Contract Sum:	$
Prior Adjustments:	$
Contract Sum Prior to this Change:	$
Adjustment for this Change:	$
Revised Contract Sum:	$

ADJUSTMENT OF CONTRACT TIME:

Original Contract Time:		(Days)
Prior Adjustments:		(Days)
Contract Time Prior to this Change:		(Days)
Adjustment for this Change:		(Days)
Revised Contract Time:		(Days)

Contractor waives any claim for further adjustments of the Contract Sum and the Contract Time related to the above described change in the Work.

RECOMMENDED:

By: _____
(Signature of University's Representative)

_____
(Printed Name)

Date: _____

ACCEPTED:

By: _____
(Contractor Signature)

_____
(Printed Contractor Name)

Date: _____

REVIEWED AND RECOMMENDED:

By: _____
(Signature of University's Designated Administrator)

_____
(Printed Name)

Date: _____

FUNDS SUFFICIENT:

By: _____
(Signature from University's Accounting Office)

_____
(Printed Name)

Date: _____

APPROVED:

UNIVERSITY: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

_____
(Printed or Typed Name)

By: _____
(Signature)

_____
(Title)

Date:: _____

CONDITIONAL WAIVER AND RELEASE ON PROGRESS PAYMENT

Exhibit 10

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Identifying Information:

Name of Claimant: _____

Name of Customer: _____

Job Location: _____

Owner: _____

Conditional Waiver and Release

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job through the Through Date of this document. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. This document is effective only on the claimant's receipt of payment from the financial institution on which the following check is drawn:

Maker of Check: _____

Amount of Check: $ _____

Check Payable to: _____

Exceptions

This document does not affect any of the following:

(1) Retentions.

(2) Extras for which the claimant has not received payment.

(3) The following progress payments for which the claimant has previously given a conditional waiver and release but has not received payment:

Date(s) of waiver and release:_____

Amount(s) of unpaid progress payment(s): $_____

(4) Contract rights, including

(A) a right based on rescission, abandonment, or breach of contract, and

(B) the right to recover compensation for work not compensated by the payment.

Signature:

Claimant's Signature: _____

Claimant's Title: _____

Date of Signature: _____

CONDITIONAL WAIVER AND RELEASE UPON FINAL PAYMENT

(CA Civil Code § 8136)

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Identifying Information:

Name of Claimant: _____

Name of Customer: _____

Job Location: _____

Owner: _____

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. This document is effective only on the claimant's receipt of payment from the financial institution on which the following check is drawn:

Maker of Check: _____

Amount of Check: $ _____

Check Payable to: _____

Exceptions:

This document does not affect any of the following:

Disputed claims for extras in the amount of $ _____.

Signature:

Claimant's Signature: _____

Claimant's Title: _____

Date of Signature: _____

UNCONDITIONAL WAIVER AND RELEASE UPON PROGRESS PAYMENT

(CA Civil Code § 8134)

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

Identifying Information:

Name of Claimant: _____

Name of Customer: _____

Job Location: _____

Owner: _____

Through Date: _____

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job through the Through Date of this document. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below.

The claimant has received the following progress payment:

$ _____

Exceptions:

This document does not affect any of the following:

(1) Retentions.

(2) Extras for which the claimant has not received payment.

(3) Contract rights, including (A) a right based on rescission, abandonment, or breach of contract, and (B) the right to recover compensation for work not compensated by the payment.

Signature:

Claimant's Signature: _____

Claimant's Title: _____

Date of Signature: _____

UNCONDITIONAL WAIVER AND RELEASE UPON FINAL PAYMENT

(CA Civil Code § 8138)

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

Identifying Information:

Name of Claimant: _____

Name of Customer: _____

Job Location: _____

Owner: _____

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for all labor and service provided, and equipment and material delivered, to the customer on this job. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. The claimant has been paid in full.

Exceptions:

This document does not affect any of the following:

Disputed claims for extras in the amount of $ _____.

Signature:

Claimant's Signature: _____

Claimant's Title: _____

Date of Signature: _____

EXHIBIT 13A

EXHIBIT

REPORT OF SUBCONTRACTOR INFORMATION

Sheet No. _____ of _____

Provide the following information for each contracting party including the Contractor and each Subcontractor regardless of tier.* Attach additional sheets if necessary.

1	2A	2B	3	4	5	6	7		8				
Full Name of Business	Portion of the Work	Dollar Amt	Street Address City, State & ZIP	Tel No / FAX No	Contact Name	Type of Owner-ship	License Info**		Business categories* (Check all categories that apply)				
							License Classification**	License No.**	SBE*	DBE*	WBE*	DVBE*	N/A
(GC)													
(Sub 1)													
(Sub 2)													
(Sub 3)													

Column 6 – Type of Ownership	Column 8 - Business Categories
SP = Sole Proprietorship P = Partnership C = Corporation JV = Joint Venture O = Other	SBE = Small Business Enterprise DBE = Disadvantaged Business Enterprise WBE = Woman Business Enterprise DVBE = Disabled Veteran Business Enterprise

* Regardless of tier, a completed Self-Certification must be submitted for the General Contractor and each Subcontractor shown on this Exhibit.
** List only those License Classification and Numbers relevant to this project.

EXHIBIT 13B

EXHIBIT

FINAL DISTRIBUTION OF CONTRACT DOLLARS

Sheet No. 1 of 1

Provide the following information for each contracting party including the Contractor and each Subcontractor regardless of tier.* Attach additional sheets if necessary.

1	2	3	4	5					6	
Full Name of Business	Street Address, City, State and ZIP	Tel No / FAX No	Contact Name	**Business categories**					Contract Dollars	
				SBE*	DBE*	WBE*	DVBE*	**N/A**	Amount ($)	Percent (%)
(GC)				0	0	0	0	0		0%
(Sub 1)				0	0	0	0	0		0%
(Sub 2)				0	0	0	0	0		0%
(Sub 3)				0	0	0	0	0		0%
				0	0	0	0	0		0%
				0	0	0	0	0		0%
				0	0	0	0	0		0%
				0	0	0	0	0		0%
				0	0	0	0	0		0%
				0	0	0	0	0		0%
				0	0	0	0	0		0%
				0	0	0	0	0		0%

Total Contract Amount = { $1,000.00 }

Column 6 - Business Categories	**SUBTOTALS**
SBE = Small Business Enterprise	$0
DBE = Disadvantaged Business Enterprise	$0
WBE = Woman Business Enterprise	$0
DVBE = Disabled Veteran Business Enterprise	$0

*Regardless of tier, a completed Self-Certification must have been submitted for the General Contractor and each Subcontractor shown on this Exhibit.

**Refer to the Report of Subcontractor Information for license and other information.

EXHIBIT 14

SELF-CERTIFICATION

For the Contractor and each Subcontractor indicated on the Report of Subcontractor Information, the following must be completed.

Indicate all Business category(ies) that apply by initialing next to the applicable category(ies):

_____ (Initial, if applicable) **Small Business Enterprise (SBE)** - an independently owned and operated concern certified, or certifiable, as small business by the Federal Small Business Administration (SBA). (Size standards by Standard Industrial Classification codes required by the Federal Acquisition Regulations, Section 19.102, may be found at www.sba.gov/size. The University may rely on written representation by the vendors regarding their status.) Annual average receipts, computed from the gross receipts for the last 3 fiscal years, do not exceed the amount listed in the MAXIMUM RECEIPTS TABLE below. The average annual receipt is computed by taking the sum of the gross receipts of the prior 3 fiscal years and dividing by 3.

MAXIMUM RECEIPTS TABLE	
Construction Services (by Contractor's License Classification): Class "A" - General Engineering Class "B" - General Building Class "C" - Specialty	AVERAGE ANNUAL RECEIPTS (Preceding 3 Years) $31,000,000 $31,000,000 $13,000,000
Architectural & Engineering Services	$4,500,000 (except landscape architectural services)
Landscape Architectural Services	$6,500,000
Other services	For appropriate amount, see www.sba.gov/size

_____ IInitial, if applicable) **Disadvantaged Business Enterprise (DBE)** - a business concern which is at least 51% owned by one or more socially and economically disadvantaged individuals or, in the case of any publicly owned business, at least 51% of the stock of which is owned by such individuals and whose management and daily business operations are controlled by one or more of such individuals. Socially disadvantaged individuals are those who have been subjected to racial or ethnic prejudice or cultural bias because of their identity as members of a group without regard to their individual qualities. Economically disadvantaged individuals are those socially disadvantaged individuals whose ability to compete in the free private enterprise system has been impaired due to diminished capital and credit opportunities as compared to others in the same business area who are not socially disadvantaged. Business owners who certify that they are members of named groups (Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans, Asian-Indian Americans) are to be considered socially and economically disadvantaged.

_____ (Initial, if applicable) **Women-Owned Business Enterprise (WBE**) - a business that is at least 51% owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" in this context means being actively involved in the day-to-day management.

_____ (Initial, if applicable) **Disabled Veteran Business Enterprise (DVBE)** - a business that is at least 51% owned by one or more disabled veterans or, in the case of any publicly owned business, at least 51% of the stock of which is owned by such individuals and whose management and daily business operations are controlled by one or more of such individuals. A Disabled Veteran is a veteran of the military, naval, or air service of the United States with a service connected disability who is a resident of the State of California. To qualify as a veteran with a service connected disability, the person must be currently declared by the United States Veterans Administration to be 10% or more disabled as a result of service in the armed forces.

_____ (Initial, if applicable) **None of the above categories apply.**

I hereby certify under penalty of perjury under the laws of the State of California that I have read this certification and know the contents thereof, and that the business category indicated above reflects the true and correct status of the business in accordance with Federal Small Business Administration criteria and Federal Acquisition Regulations, FAR 19 pertaining to small, disadvantaged, women-owned, and disabled veteran business enterprises. I understand that falsely certifying the status of this business, obstructing, impeding or otherwise inhibiting any University of California official who is attempting to verify the information on this form may result in suspension from participation in University of California business contracts for a period up to five (5) years and the imposition of any civil penalties allowed by law.

INFORMATION FURNISHED BY: _____
(Print or Type Name of Owner and/or Principal)

_____
(Name of Business or Firm)

a _____
(Insert type of business e.g. corporation, sole proprietorship, partnership, etc.)

By: _____ _____
(Print Name) (Title)

_____ _____
(Signature) (Date)

PRIVACY NOTICE

The State of California Information Practices Act of 1977 (effective July 1, 1978) requires the University of California to provide the following information to individuals who are asked to supply personal information about themselves. Information furnished on the Self-Certification form may, in some cases, identify personal information of an individual.

- The University of California, Merced, is requesting the information contained in this form and the accompanying Report of Subcontractor Information.
- The Small Business Outreach Program Manager at the University of California, Merced, is responsible for maintaining the requested information. The contact information for the Small Business Outreach Program Manager may be found at: http://www.ucop.edu/purchserv/documents/sbdmgr.pdf
- The maintenance of information is authorized in part by Public Contract Code section 10500.5.
- Furnishing the information requested on this form is mandatory. If SBE, DBE, WBE and/or DVBE status is applicable, furnishing such information is mandatory.
- Failure to provide the information may be a violation of bidding procedures and/or breach of the contract and the University may pursue any and all remedies permitted by the provisions of the Contract Documents.
- The information on this form is collected for monitoring and reporting purposes in accordance with state law and University policy.
- The individual may access information contained in this form and related forms by contacting the Small Business Outreach Program Manager(s).

EXHIBIT 15
CERTIFICATE OF SUBSTANTIAL COMPLETION

Project Name: BSP AND HAC RELOCATION

Project Number: __908090

Date of Issuance: _____

The Work has been reviewed and the date of Substantial Completion is hereby established as of the date of issuance above.

A Certificate of Occupancy has been issued by the University's Building Official _____ on _____, _____.

A list of items to be completed or corrected is included herein. The failure to include any items on such list does not alter the responsibility of Contractor to complete all of the Work in accordance with the Contract Documents.

In accordance with the Contract Documents, Contractor is notified as follows:

1. Without limitation of Contractor's obligation to fully complete the Work within the Contract Time, Contractor shall complete or correct the Work on the list of items attached hereto within _____ days from the date of Substantial Completion.
2. Contractor shall be responsible for all Contract requirements except items or responsibilities of University set forth in Paragraph 2 above.
3. List of items to be completed or corrected: See Attached List

UNIVERSITY'S REPRESENTATIVE:

_____
(Name of Firm)

_____
(Signature)

_____
(Typed or Printed Name)

_____
(Title)

_____
(Date)

UNIVERSITY: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

_____
(Signature)

_____
(Typed or Printed Name)

_____
(Title)

_____
(Date)

cc: Office of Risk Management

EXHIBIT 16
GUARANTEE/WARRANTY FORM

Date: _____

Project Name: BSP AND HAC RELOCATION
UNIVERSITY OF CALIFORNIA, MERCED
MERCED, CALIFORNIA

Project Location: **Merced County, Merced, California**

Project Number: **908090**

GUARANTEE FOR: _____
(Specification SECTION and Contract No.)

(the "Contract"), between the Regents of the University of California ("University") and

_____
(Name of Contractor)

("Contractor") and _____
(Name of Subcontractor)

Hereby guarantee to University that the portion of the work described as follows:

_____

_____

Which it has provided for the above referenced Project, is of good quality; free from defects; free from any liens, claims, and security interests; and has been completed in accordance with Specifications SECTION _____ and the other requirements of the Contract.

The undersigned further agrees that, if at any time within _____ months after the date of the guarantee the undersigned receives notice from University that the aforesaid portion of the Work is unsatisfactory, faulty, deficient, incomplete, or not in conformance with the requirements of the Contract, the undersigned will, within 10 days after receipt of such notice, correct, repair, or replace such portion of the Work, together with any other parts of the Work and any other property which is damaged or destroyed as a result of such defective portion of the Work or the correction, repair, or replacement thereof; and that it shall diligently and continuously prosecute such correction, repair, or replacement to completion.

In the event the undersigned fails to commence such correction, repair, or replacement within 10 days after such notice, or to diligently and continuously prosecute the same to completion, the undersigned, collectively and separately, do hereby authorize University to undertake such correction, repair, or replacement at the expense of the undersigned; and Contractor will pay to University promptly upon demand all costs and expenses incurred by University in connection therewith.

SUBCONTRACTOR

Signed; _____

Title: _____

Typed Name: _____

Name of Firm: _____

Contractor License Classification, Code, and Number: _____

Address: _____

CONTRACTOR _____

Signed: _____

Title: _____

Typed Name: _____

Name of Firm _____

Request for Information

Project No.: 908090

University of California,
Merced

RFI Number: _____

Date Created: ___ ___/ ___ ___ /___ ___

Answer Required by: ___ ___/ ___ ___/ ___ ___

Priority: ☐ Urgent ☐ High ☐ Normal ☐ Low

Submitted By

Company: _____ Subject: _____

Contact: _____ Discipline: _____

Telephone: _____ Category: _____

Email: _____ Reason: _____

Question

Suggestion

Answer

Received By: _____ Date: ___ ___/ ___ ___/ ___ ___

EXHIBIT 18

UTILITY SERVICE INTERRUPTION/SHUT DOWN REQUEST

A minimum of 14 working days advance notice

is required prior to each utility service interruption/shut down

(Refer to Section 01 35 00 Special Requirements)

SUBMIT DIFFERENT FORM FOR EACH UTILITY

To University's Representative:_____

Submitted by Contractor: _____

(Printed Name/Title) _____

Project No: **907024**

Project Name: _____

Date Request Submitted: _____

Shut Down Date Requested: _____

Commencing Time of Shut Down: _____ **A.M.** _____ **P.M.**

Duration of Shutdown: _____ **A.M.** _____ **P.M.**

Type of Utility Service to be shut down:

Contractor Signature: _____

The above shut down HAS / HAS NOT been scheduled as requested.

EXHIBIT 18

UTILITY SERVICE INTERRUPTION/SHUT DOWN REQUEST

Additional comments if required:

Confirmed by telephone with _____

Confirmed via fax on _____ **by** _____

EXHIBIT 19
UNIVERSITY OF CALIFORNIA, MERCED CAMPUS
NEW CONSTRUCTION PROJECT INFORMATION FORM
TO COMPLY WITH THE TERMS OF THE
GENERAL PERMIT TO DISCHARGE STORM WATER
ASSOCIATED WITH CONSTRUCTION ACTIVITY (WQ ORDER No. 2009-0009-DWQ)

I. NOTICE OF INTENT

UNIVERSITY OF CALIFORNIA, MERCED CAMPUS	**WDID#** **5F24S319219**

II. PROPERTY OWNER

Name	Contact Person		
Mailing Address	Title		
City **MERCED**	State **CA**	Zip **95343**	Phone **(209) 228-4404**

III. CONTRACTOR INFORMATION

Contractor	Contact Person		
Mailing Address	Title		
City	State	Zip	Phone **( ) -**

IV. NEW CONSTRUCTION PROJECT INFORMATION

Project No			
Project Name	University's Representative		
Physical Address/Location	Latitude	Longitude	County
City (or nearest City) Merced	Zip	Site Phone Number **( ) -**	Emergency Phone Number **( ) -**
A. Total size of construction site area: ___ Acres	B. Total area to be disturbed: ___ Acres (% of total___)		
C. Percent of site imperviousness (including rooftops): Before Construction: ___% After Construction: ___%			
D. Tract Number(s): ___,	E. Mile Post Marker:		
F. Is the construction site part of a larger common plan of development or sale? ☒ **YES** ☐ NO	G. Name of plan or development:	H. Construction commencement date: ___/___/	
I. Percentage of site to be mass graded:	J. Projected construction dates: Complete grading: ___/___/ Complete project: ___/___/		

K. Type of Construction (Check all that apply):

1. ☐ Residential 2. ☐ Commercial 3. ☐ Industrial 4. ☐ Reconstruction 5. ☐ Transportation
6. ☐ Utility Description:
7. ☐ Other (Please List):

V. IMPLEMENTATION OF NPDES PERMIT REQUIREMENTS

A. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) (check one)

☐ A SWPPP has been prepared for this facility and is available for review:
Date Prepared: ___/___/___Date Amended: ___/___/

☐ A SWPPP will be prepared and ready for review by (enter date): ___/___/

☐ A tentative schedule has been included in the SWPPP for activities such as grading, street construction, home construction, etc.

B. MONITORING PROGRAM

☐ A monitoring and maintenance schedule has been developed that includes inspection of the construction BMPs before Anticipated storm events and after actual storm events and is available for review.

If checked above: A qualified person has been assigned responsibility for pre-storm and post-storm BMP inspections to identify effectiveness and necessary repairs or design changes. ☐ YES ☐ NO

Name: _____ Phone: (___)___-

C. PERMIT COMPLIANCE RESPONSIBILITY

A qualified person has been assigned responsibility to ensure full compliance with the Permit, and to implement all elements of the Storm Water Pollution Prevention Plan including:

1. Preparing an annual compliance evaluation. ☒ **YES** ☐ NO
   Name: _____ Phone: (___)___-
2. Eliminating all unauthorized discharges. ☐ YES ☐ NO

VI. VICINITY MAP AND FEE (must show site location in relation to nearest named streets, intersections, etc.)

Have you included a vicinity map with this submittal? ☒ **YES** ☐ NO

UC Merced pays annual fee; no fee required by Contractor

VII. CONTRACTOR CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a Storm Water Pollution Prevention Plan and a Monitoring Program Plan will be complied with."

Printed Name: _____

Signature: _____ **Date:** _____

Title: _____

THE NEXT SECTION TO BE COMPLETED BY UNIVERSITY'S REPRESENTATIVE

VIII. UNIVERSITY CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a Storm Water Pollution Prevention Plan and a Monitoring Program Plan will be complied with."

Printed Name:_____

Signature: _____ **Date:** _____

Title:_____

EXHIBIT 20
AUTOMATIC SPRINKLER SYSTEMS
CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING

Procedure									
Upon completion of work, inspections and tests shall be made by the General Contractor's Representative and witnessed by the University's Representative. All defects shall be corrected and system left in service before General Contractor's personnel finally leave the job.									
A certificate shall be filled out and signed by both representatives. Copies shall be prepared by approving authorities, University and General Contractor. It is understood the University's Representative's signature in no way prejudices any claim against General Contractor for faulty material, more workmanship, or failure to comply with approving authority's requirements or local ordinances.									
Property Name							Date		
Property Address									
Plans	Accepted by Approving Authorities (Names)								
	Address								
	Installation conforms to Accepted Plans							Yes	No
	Equipment Used is Approved							Yes	No
	If No, State Deviations								
Instructions	Has Person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this equipment?							Yes	No
	If No, Explain								
	Have copies of the following been left on the premises?								
	1. System Components Instructions							Yes	No
	2. Care and Maintenance Instructions							Yes	No
	3. NFPA 25							Yes	No
Location of System	Supplies the following Bldg(s):								
Sprinklers	Make	Model		Year of Manufacturer	Orifice Size	Quantity	Temperature Rating		
Pipe and Fittings	Pipe conforms to			Standard				Yes	No
	Fittings conform to			Standard				Yes	No
Alarm Value or Flow Indicator	Alarm Device				Max Time to Operate through Test Connection				
	Type	Make		Model	Min.			Sec.	
Dry Pipe Operating Test	Dry Valve				QOD				
	Make		Model	Serial No.	Make	Model		Serial No.	
	Time to Trip Through Test Connection*		Water Pressure	Air Pressure	Trip Point Air Pressure	Time Water reached Test Outlet*		Alarm Operated Properly	
		Min	Sec	PSI	PSI	PSI	Min	Sec	Yes	No
	w/o QOD									
	w/ QOD									
	If No, Explain									
***Measured from time Inspector's test connection is opened.**									

Deluge and Preaction Valves	Operation		Pneumatic			Electric		Hydraulic	
	Piping Supervised		Yes		No	Detecting Media Supervised		Yes	No
	Does valve operate from the Manual Trip and/or Remote Controls Station							Yes	No
	Is there an accessible facility in each circuit for testing							Yes	No
	If, No Explain								

Make	Model	Does each circuit operate Supervision Loss Alarm		Does each circuit operate Valve Release		Maximum Time to operate Release	
		Yes	No	Yes	No	Min.	Sec.

Test Description	Hydrostatic: Hydrostatic tests shall be made at not less than 2000 psi (13.6 bars) for 2 hours or 50 psi (3.4 bars) above static pressure in excess of 150 psi (10.2 bars) for 2 hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All above ground piping leakage shall be stopped.
	Flushing: Flow the required rate until water is clear as indicator has no collection of foreign material in burlap bags as outlet such as hydrants and blow-offs. Flush at flows not less than 4000 GPM (1514 l/min) for 4-inch pipe, 600 GPM (1171 L/min) for 5-inch pipe. 2000 GPM (7570 L/min) for 12-inch pipe. When supply cannot produce stipulated flow rates, obtain maximum available.
	Pneumatic: Establish 40 psi (2.7 bars) air pressure and measure dry, which shall not exceed 1-1/2 psi (0.1 bars) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1-1/2 psi (0.1 bars) in 24 hours.

Tests	All Piping hydrostatically tested at _____PSI for ____ Hours					If No, State Reason
	Dry Piping Pneumatically Tested		Yes		No	
	Equipment Operates Properly		Yes		No	
	Do you certify as the Sprinkler General Contractor that additives and corrosive chemicals, Sodium Silicate or derivatives of Sodium Silicate, Brine or other corrosive chemicals were not used for testing systems or stopping leaks?		Yes		No	
	Drain Test	Reading of Gage located near Water Supply Test Pipe: _____ PSI				Residual Pressure with Valve in Test Pipe open wide: _____ PSI
	Underground mains and lead in connections to system risers flushed before connection made to sprinkler piping					
	Verified by copy of the U Form No. 85B		Yes		No	Other / Explain
	Flushed by Installer of Underground Sprinkler Piping		Yes		No	

Blank Testing Gaskets	Number Used	Locations	Number Removed

	Welded Piping		Yes		No	If Yes…
	Do you certify as the sprinkler contract that welding procedures comply with the requirements of at least AWS D10.9 Level AR-3?					Yes / No
	Do you certify that the welding was performed by welders qualified in compliance with the requirements of at least AWS D10.0, Level AR-3?					Yes / No
	Do you certify that welding was carried out in compliance with a document quality control procure to insure that all discs are retrieved, that openings in piping are smooth, that slag and other welding residue are removed, and that the internal diameters of piping are not penetrated?					Yes / No

Hydraulic Data Nameplate	Nameplate Provided		Yes		No
	If No, Explain				
Remarks	Date left in service with all Control Valves open:				
Signatures	Name of Sprinkler General Contractor:				
	Test Witnessed By				
	For Property University (Signed)	Title	Date		
	For Sprinkler General Contractor (Signed)	Title	Date		

Additional Explanation and Notes *(Note: Add additional pages if required)*

EXHIBIT 21
AUTOMATIC SPRINKLER SYSTEMS
CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING

Procedure								
Upon completion of work, inspections and tests shall be made by the General Contractor's Representative and witnessed by the University's Representative. All defects shall be corrected and system left in service before General Contractor's personnel finally leave the job.								
A certificate shall be filled out and signed by both representatives. Copies shall be prepared by approving authorities, University and General Contractor. It is understood the University's Representative's signature in no way prejudices any claim against General Contractor for faulty material, more workmanship, or failure to comply with approving authority's requirements or local ordinances.								
Property Name						Date		
Property Address								
Plans	Accepted by Approving Authorities (Names)							
	Address							
	Installation conforms to Accepted Plans						Yes	No
	Equipment Used is Approved						Yes	No
	If No, State Deviations							
Instructions	Has Person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this equipment?						Yes	No
	If No, Explain							
	Have copies of appropriate Instructions and Care and Maintenance Charts been left on premises						Yes	No
	If No, Explain							
Location of System	Supplies the following Bldg(s):							
Underground Pipes and Joints	Pipe Types and Class					Type Joint		
	Pipe conforms to		Standard				Yes	No
	Fittings conform to		Standard				Yes	No
	If No, Explain							
	Joints needing anchorage, clamped, strapped or blocked in accordance with _____ Standard						Yes	No
	If No, Explain							
	If, No Explain							
	Make	Model	Does each circuit operate Supervision Loss Alarm		Does each circuit operate Valve Release		Maximum Time to operate Release	
			Yes	No	Yes	No	Min.	Sec.
Test Description	Flushing: Flow the required rate until water is clear as indicator has no collection of foreign material in burlap bags as outlet such as hydrants and blow-offs. Flush at flows not less than 4000 GPM (1514 l/min) for 4-inch pipe, 600 GPM (1171 L/min) for 5-inch pipe. 2000 GPM (7570 L/min) for 12-inch pipe. When supply cannot produce stipulated flow rates, obtain maximum available.							
	Hydrostatic: Hydrostatic tests shall be made at not less than 2000 psi (13.6 bars) for 2 hours or 50 psi (3.4 bars) above static pressure in excess of 150 psi (10.2 bars) for 2 hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All above ground piping leakage shall be stopped.							
	Leakage: COMPLETE							
Flushing Tests	New Underground Piping flushed according to _____ Standard						Yes	No
	By (Company)							
	If No, Explain							
	How Flushing was Obtained					Through what Type Opening		
	Public Water	Tank or Reservoir	Fire Pump			Hydrant Butt	Open Pipe	
	Lead-In's flushed according to _____ Standard					Number Removed		
	By (Company)							

	If No, Explain								
	How Flushing was Obtained					Through what Type Opening			
		Public Water		Tank or Reservoir		Fire Pump		Hydrant Butt		Open Pipe
Hydrostatic Test	All new Underground Piping hydrostatically tested at _____ PSI for _____ hours								
	Joints Covered							Yes		No
Leakage Test	Total Amount of Leakage measured _____ gals. for _____ hours								
Hydrants	Number Installed		Type and Make			All Operate Satisfactorily			
								Yes		No
Control Valves	Water Control Valves left wide open							Yes		No
	If No, Explain								
	Hose Threads of Fire Department Connections and hydrants interchangeable with those of Fire Department answering alarm							Yes		No
Remarks	Date left in service:								
Signatures	Name of Installer General Contractor:								
	Test Witnessed By								
	For Property University (Signed)			Title			Date		
	For Sprinkler General Contractor (Signed)			Title			Date		
Additional Explanation and Notes *(Note: Add additional pages if required)*									

EXHIBIT 22
MATERIAL SUBSTITUTION PROPOSAL

TO (NAME): _____

PROJECT: **KOLLIGIAN LIBRARY 3W RENOVATION** PROJECT No.: **907024**

A. We hereby submit for your consideration the following product instead of the specified item:

1. Section: _____
2. Article Number: _____
3. Specified Item: _____
4. Proposed Substitution (Mfg., Type, Model, etc.): _____

B. Complete all of the following:

1. Does this substitution offer University a cost credit (including costs for changes by other subcontractors)?

   ☐ Yes ☐ No How much? $_____

List of Subcontractors, if any that may be affected by the substitution.	
Name	Trade

2. Does this substitution offer earlier delivery or less Contract Time?

   ☐ Yes ☐ No

   How much and why? _____

3. How does this substitution affect any dimensions, layout, or details of other subcontractors as shown on the Drawings?

   _____

4. What are the specific differences between this substitution and the specified item?

   _____

C. Attach the following as applicable (Check if attached):

1. Manufacturer's technical data ☐
2. Laboratory test or performance results ☐
3. Drawings & wiring diagrams of the proposed product ☐
4. Drawings & description of changes required by other subcontractors ☐
5. Samples ☐
6. Manufacturer's guarantee & maintenance instructions ☐

D. Submitted by Contractor: _____

Statement by Contractor that the proposed substitution is in full compliance with the requirements of the Contract Documents and Applicable Code Requirements.

Signature:_____ Date: _____

E. University Review Decision:

For Use Only by University's Representative							
	Accepted		**Rejected**		**Revise and Resubmit**		**See Attached**

University's
Representative
Signature:_____ Date: _____

Exhibit 23 - Submittal Approval Page

By Submittal Item

Preparer Approval	**University Approval**
Spec Section Sub Section Item No. Rev Description: _____ By: _____ Date: _____	
University of California, Merced Approval	**Design Team Approval**
☐ Approved ☐ Approved as Noted ☐ Revise & Resubmit ☐ Rejected Review is general and only for conformance with the design concept of the project and with the information given in the contract documents, and shall not be construed as reliving the Contractor of responsibility for omissions or errors, including performance, details, dimensions, materials, configuration, etc. Review of a separate item does not indicate acceptance of an assembly which the item functions. By: _____ Date: _____	

MATERIAL SUBMITTAL TRANSMITTAL / APPROVAL FORM

From: _____ Date: _____

Subcontractor: _____

Specification Section: _____ Sub-section:_____

Product: _____

Comply with Specifications: Yes No

Substitution: Yes No If Substitution, Provide Exhibit 22

Reviewed By: _____

Submitted to UCM: _____

UCM Received: ____ _

Submitted to Design Team/UC Rep. ___

Notes: Submittal copy sent via email to:

Item No.	Specification	Description of Material/Shop Drawing	Date	Status

By completing this form the undersigned General Contractor certifies that the material and shop drawings complies with all drawings and specifications of subject contract and the General Contractor has reviewed submittal procedures specified in division 1. Checking is for general conformance with the design concept only. Reviews are subject to all contract requirements. No contract requirements are waived unless specifically noted. General Contractor is responsible for identifying all proposed material substitutions, dimensions, quantities, techniques of construction and coordination with all other trades

EXHIBIT 24
WASTE MANAGEMENT PLAN
CONSTRUCTION/MAINTENANCE/ALTERATION AND DEMOLITION PROJECTS

Project Name: _____

Project No.: _____

Name of Company: _____

Contact Person: _____

Telephone: _____

Project Site Location: _____

Project Type: ☐ New Construction ☐ Demolition ☐ Maintenance/Alteration

Project Size (in sqft): _____

	Pre-Project		**Project Updates** **For Period: _____ to _____**		
1 **Materials**	**2** **Estimated Generation**		**3** **Recycled/Salvaged/Disposed**		**4** **Disposal Location**
	Cubic Yard(s)	Metric Ton(s)	Cubic Yard(s)	Metric Ton(s)	
Total					

*Attach proposed Recycling & Waste Bin Location plan for approval by University Representative.

Signature _____ Title _____ Date _____

- Column 1: "Material" – Enter materials targeted for recycling and/or salvage and include a category for waste materials requiring disposals
- Column 2: "Estimated Generation" – Enter estimated volumes (cu. yd.) or quantities (metric tons) of recyclable and waste materials generated and state number of salvageable items
- Columns 3: "Recycled/Salvaged/Disposed" – Enter volumes (cu. yd.) or quantities (metric tons) of materials recycled and disposed and state number of items salvaged

- Column 4: “Disposal Location” – Enter end-distribution of recycled, salvaged and disposed materials

EXHIBIT 25
WASTE MANAGEMENT REPORT
CONSTRUCTION/MAINTENANCE/ALTERATION AND DEMOLITION PROJECTS

Project Name: _____

Project No.: _____

Name of Company: _____

Contact Person: _____

Telephone: _____

Project Site Location: _____

Project Type: ☐ New Construction ☐ Demolition
☐ Maintenance/Alteration

Project Size (in sqft): _____

Pre-Project	**Project Updates** **For Period: _____ to _____**		
1 **Materials**	**3** **Recycled/Salvaged/Disposed**		**4** **Disposal Location**
	Cubic Yard(s)	Metric Ton(s)	
Total			

Signature _____ Title _____ Date _____

- Column 1: "Material" – Enter materials targeted for recycling and/or salvage and include a category for waste materials requiring disposals
- Column 2: "Recycled/Salvaged/Disposed" – Enter volumes (cu. yd.) or quantities (metric tons) of materials recycled and disposed and state number of items salvaged
- Column 3: "Disposal Location" – Enter end-distribution of recycled, salvaged and disposed materials

PROJECT NO.: 908090

Letter of Instruction

Detailed, Grouped by Each Number

2020 BSP AND HAC RELOCATION **Project # 908090** **University of California, Merced**
5200 N Lake Rd
Merced CA 95343
Tel: 209 228-4479 Fax: 209 228-4468

Number: 001 **Date: 5/9/2012**

To:

From: University of California, Merced
Sara Mitchel
5200 North Lake Road
Merced, CA 95343

Subject	Type	Reason
Student Services Building		

Location	Reference	Not To Exceed Cost
		0

Description

The following information is hereby issued as a clarification or interpretation of the Contract Documents. This is a clarification or interpretation only and not intended to change the scope of the Work, the Contract Sum, or the Contract Time.

Signature **Signed Date**

EXHIBIT 27

GENERAL CONTRACTOR CLAIM CERTIFICATION

Pursuant to Article 4.3.3 of the General Conditions, I certify as follows:

1. The Claim to which this certification is attached is made in good faith.

2. Amounts claimed for costs, expenses and damages incurred by General Contractor are accurate and complete. Supporting data for amounts incurred by General Contractor is accurate and complete. Any such supporting data, including any such new amounts, submitted after the execution of this certification, will be accurate and complete.

3. To the best of my knowledge and belief, amounts claimed, and supporting data submitted by General Contractor on behalf of any and all subcontractors or suppliers, of all tiers, or any person or entity under General Contractor, are accurate and complete. General Contractor will not submit, after the date of execution of this certification, any such supporting data, including any such new amounts that, to the best of my knowledge and belief, is not accurate and complete.

4. The amount requested accurately reflects the adjustment of the Contract Sum for which the General Contractor believes the University is liable.

5. Attached hereto is a certification that has been executed by each Subcontractor claiming not less than 5% of the total monetary amount sought by the claim to which this certification is attached.

6. I am duly authorized to certify the Claim on behalf of the General Contractor.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration was executed at: _____(Name of City if within a City, otherwise Name of County), in the State of _____(State), on _____(Date).

_____
(Signature)

_____
(Print Name)

_____
(Name of General Contractor)

EXHIBIT 28

SUBCONTRACTOR CLAIM CERTIFICATION

Pursuant to Article 4.3.3 of the General Conditions, I certify as follows:

1. The portion of the Claim made on behalf of the Subcontractor to which this certification is attached is made in good faith.

2. Amounts claimed for costs, expenses and damages incurred by the Subcontractor are accurate and complete. Supporting data for amounts incurred by the Subcontractor is accurate and complete. Any such supporting data, including any such new amounts, submitted to Contractor after the execution of this certification, will be accurate and complete.

3. To the best of my knowledge and belief, amounts claimed, and supporting data submitted to Contractor by the Subcontractor on behalf of any and all subcontractors or suppliers to Subcontractor, of all tiers, or any person or entity under Subcontractor, are accurate and complete. Subcontractor will not submit, after the date of execution of this certification, any such supporting data, including any such new amounts that, to the best of my knowledge and belief, is not accurate and complete.

4. The amount requested accurately reflects the amount for which the Subcontractor believes the University is liable to Contractor.

5. I am duly authorized to certify the Claim on behalf of the Subcontractor.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration was executed at: _____(Name of City if within a City, otherwise Name of County), in the State of _____(State), on _____(Date).

_____
(Signature)

_____
(Print Name)

_____
(Name of Subcontractor)

CONTRACTOR / SUBCONTRACTOR DAILY REPORT

Contractor /Subcontractor: _____

Daily Details

Date: ___ ___ / ___ ___/ ___ ___ ___ ___

Temperature: A.M. _____°F P.M. _____°F

Weather: _____

Manpower *(List Quantity)*

Project Managers:	_____	Other:	_____	_____
Superintendents:	_____	Other:	_____	_____
Non-Working Foremen:	_____	Other:	_____	_____
Working Foremen:	_____	Other:	_____	_____
Journeymen:	_____	Other:	_____	_____
Apprentices:	_____	Other:	_____	_____
Laborers:	_____	Other:	_____	_____

Subcontractors on Site: _____

_____

_____

Work Performed in Each Area: _____

_____

_____

_____

_____

_____

Equipment Rented/Used: _____

_____

_____

Shortages/Discrepancies of Delivered Materials: _____

_____

_____

Delays/Problems: _____

_____

_____

Unsafe or Hazardous Conditions: _____

_____

_____

Questions: _____

_____

Last Safety Meeting

Date: ___ ___/ ___ ___/ ___ ___ ___ ___

Topic: _____

Number of Additional Sheets Attached: _____

Signed: _____

_____

Printed Name: _____

Title: _____

HOT WORK PERMIT

BEFORE INITIATING HOT WORK, ENSURE PRECAUTIONS ARE IN PLACE!

MAKE SURE AN APPROPRIATE FIRE EXTINGUISHER IS READILY AVAILABLE!

This Hot Work Permit is required for any operation involving open flames or producing heat and/or sparks. This includes, but is not limited to: Brazing, Cutting, Grinding, Soldering, Thawing Pipe, Torch-Applied Roofing, and Cadwelding

INSTRUCTIONS

1. Verification below is to be completed by a qualified person.
2. The completed original is to be presented to the inspector prior to commencing work.
3. Must also be submitted to C.M. 24 hours before work is started to insure proper notifications are made.

HOT WORK BEING DONE BY:

❑ UCM Employee

❑ Contractor: _____

Date: _____ W.O.# _____

Start Time: _____

Location / Building / Floor

Nature of Job / Object

Name of Person Doing Hot Work

I verify the above location has been examined, the precautions checked on the Required Precautions Checklist have been taken to prevent fire, and permission is authorized for work.

Signed:

Permit Expires Date Time AM PM

Fire Detection Disabled Reactivated

Date / Time _____ _____

Initial: _____ _____

THIS PERMIT IS GOOD FOR ONE DAY ONLY

Ref: -

Inspection No. -

REQUIRED PRECAUTIONS CHECKLIST

❑ Automatic Fire Detection Disabled?
❑ Available sprinklers, hose streams, and extinguishers are in service/operable?
❑ Hot work equipment is in good repair?

Requirements within 10 m (35 feet) or work:

❑ Flammable liquids, dust, lint, and oil deposits removed?
❑ Explosive atmosphere in area eliminated?
❑ Floors swept clean?
❑ Combustible floors wet down, covered with damp sand or fire-resistant sheets?
❑ Remove other combustibles where possible. Otherwise protect with fire-resistant tarpaulins of metal sheets?
❑ All wall and floor openings covered?
❑ Fire-resistant tarpaulins suspended beneath work?

Work on walls or ceiling / enclosed equipment:

❑ Construction is non-combustible and without combustible covering or insulation?
❑ Combustibles on other side of walls moved away?
❑ Danger exists by condition of heat into another area?
❑ Enclosed equipment cleaned of all combustibles?
❑ Containers purged of flammable liquids/vapors?

Fire Watch / Hot Work area monitoring:

❑ Fire watch will be provided during and for 30 minutes after work, including any coffee or lunch breaks?
❑ Fire watch is supplied with suitable extinguishers?
❑ Fire watch is trained in use of this equipment? And is sounding alarm?
❑ Fire watch may be required for adjoining areas, above and below?
❑ Monitor hot work area 30 minutes after job is completed.

Other precautions taken:

❑ Confined space entry permit required?
❑ Area protected with smoke or heat detection?
❑ Ample ventilation to remove smoke/vapor from work area?
❑ Lockout / tagout required?

SRE LABORATORY & OFFICE RELOCATION
Project No.: 2020
UNIVERSITY OF CALIFORNIA, MERCED
MERCED, CALIFORNIA

EXHIBIT 30 – WELDING/HOT WORK PERMIT

Initial Inspection No.: _____ (CM)

Requests for Inspections and/or Tests

2020 BSP AND HAC RELOCATION | Project No.: 908090 | University of California – Merced
Tel: | Fax:

Date of Request: _____ Person Accompanying Inspector: _____

Date of Inspection: _____ Cell Phone: _____

Installing Company: _____ Requested Time: _____ Reference # _____

Description	System / Discipline

Location – Items to Be Inspected

Quality Control

Verified by: _____ on _____ (date).

IOR's Observations

Items Passed

Items Failed

Signature _____ Signed Date _____

_____
WHEN RECORDED, MAIL TO:
_____

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that on the _____ day of _____, 20__, the Work xxxxxx Project was completed. The name of the owner is THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, hereinafter referred to as "The Regents." The address of The Regents is University of California, Office of the President, 1111 Franklin St. 6th Floor, Oakland, California, 94607-5200. The Regents is the owner in fee simple of the real property commonly known as: {Building name, if any}, {Building number i.e. CAAN}, {Names of streets abutting project, if any, and street address, if any}, {Facility name e.g. campus, laboratory, etc.}, {City in which project is located}, {County in which project is located} and of all improvements and buildings thereon including the above-named Project. The name of the original Contractor is: {Insert name of original Contractor}.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA:

By: _____

I, _____, say that I am the _____ of the Merced of the University of California, and as such, make this verification on behalf of The Regents, a corporation; and that I have read the above Notice of Completion and know the contents thereof and that the facts stated therein are true. I declare under penalty of perjury that the foregoing is true and correct. Executed on _____, 20 , at _____.

_____
(Signature)

(Note: See attached optional Notary Acknowledgment)

Note: California Civil Code section 9208 provides that a Notice of Completion in the form required by Civil Code secs. 8100-8118, 8182 "shall be accepted by the recorder for recording and is deemed duly recorded without acknowledgment." Nevertheless, clerks in the county recorder's office may be unused to accepting any document without an acknowledgment, so it may be easier to have the document acknowledged, even though unnecessary.

STATE OF CALIFORNIA)
COUNTY OF _____)

On _____, before me, _____, Notary Public, personally appeared _____, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity on behalf of the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

IN WITNESS WHEREOF, my hand and official seal.

_____
Signature

My Commission expires: _____

SECTION 01 11 00
SUMMARY OF WORK

PART 1 - GENERAL

1.1 WORK REQUIRED BY CONTRACT DOCUMENTS

A. Scope of Work: relocation of existing laboratories and offices from existing Campus buildings and off campus site to a new 2020 project build 2A.

B. This project consists of packing, loading and transporting the office equipment and laboratory equipment and materials.

C. Drawings, equipment list, lab equipment and specific needs are included in the scope of work as List of Attachments.

D. The scope includes disconnection of existing electrical, plumbing and mechanical as required by the specific equipment.

E. Equipment Matrix has been developed to identify equipment; electrical, plumbing and mechanical disconnects requirements and requirements for a certified labor force.

F. The project delivery is multi-prime, each trade will contract with the University with coordination and planning required between trades for their scope of work and maintaining the schedule.

G. Bid Bonds are not required.

H. Performance and Payment Bond is required for each Trade Package scope of work.

1.2 PROJECT PHASING

A. Work Phases: Contractor shall complete all work in this phase. Relocation Completion shall be no later than August 16, 2019, this allows staff and faculty to occupy prior to the start of Fall 2019 Semester.

1.3 SCHEDULING

A. Contractor, along with the University will develop a Contract Schedules as described in Section 01 31 45. Contractor will be required to perform its work in accordance with a Detailed Project Schedule approved by the University's Representative to be developed, updated, and maintained by the University with input and pull planning required by General Contractor after award of the Contact. General Contractor will be required to provide specified scheduling information necessary for the development, updating, and maintenance of the Detailed Project Schedule such that the schedule meets all occupancy and completion milestones.

B. If Contractor fails to meet the completion milestones as described in the summary of work 01 11 10 part Contractor shall be assessed liquidated damages in the amount of

$1,100.00 per day for each calendar day following the specified date of Substantial Completion for that phase where the Work remains incomplete (Saturdays, Sundays, and holidays included).

1.4 FINAL COMPLETION

A. Final Completion shall be applicable to the entire work as required by Article 4 of the Contract Agreement.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 11 00

SECTION 01 11 00.01

SCOPE OF WORK

TRADE PACKAGE .01 - GENERAL MOVER

1.0 SCOPE OF WORK - SPECIFICATIONS

Furnish all labor, material, equipment, taxes, and supervision necessary to perform all requirements of Division 0, Division 1, the following specifications section and all work shown on the drawings and specified documents in complete accordance with the Contract Documents:

SPECIFICATION SECTION	
01 15 00	Technical Specifications
01 23 00	Alternates

SCOPE OF WORK – SPECIFIC

.1 Biomedical Sciences and Physics Building

a. Description – Bidder is required to provide General Laboratory Moving Services for Laboratory and Office spaces. An inventory was performed for Laboratory Equipment, see Specification 01 15 00A – BSP Technical Specifications. Desktop devices (computers, printers, scanners, etc.), general contents, and all identified laboratory support materials will need to be relocated but is not included in the inventory.

b. The Laboratory Equipment Matrix and drawings provide the following information:

   i. Origin Building Name and Room Number/s for each lab space

   ii. Destination Building Name and Room Number

   iii. Equipment Item Description

   iv. Manufacturer Name and Model Number

   v. Equipment Locations for Destination Build Illustrate Final Locations for Specific Items

c. Technical Requirements – Refer to the Specification 01 15 00A BSP Technical Specifications Laboratory Equipment Matrix and Equipment Placement Drawings illustrating locations of specific equipment items such as: floor, bench top with specific placement for access to building infrastructure, wall mounted, and mobile types of items that are programmed to move to the new building.

.2 Health and Athletic Center

a. Description – Bidder is required to provide General Laboratory Moving Services for laboratory, health center and office spaces. An inventory was performed for the laboratory and health center equipment, see Specification 01 15 00B – HAC Technical Specifications. Desktop devices (computers, printers and scanners, etc), general supplies and contents were not included in this inventory.

.3 Bidder is required to provide the following, in addition to move crew and performs the following responsibilities:

(1) Project Manager: Shall work with identified project team members to perform the following duties: coordination of equipment relocations with the University's third party Relocation Management Team, schedule material deliveries in coordination with the project schedule for each week of move activities, coordinate and assure man power is sufficient, shall have electronic tools to receive email and all move coordination materials while on site. The Project Manager is required to oversee logistics of each move, packing, and post move activity.

(1) Lead Project Supervisor: Shall manage move supervisors at origin and destination sites to assure crews follow move schedules. Supervisor shall be on site for each lab move for the duration of each move and shall have electronic tools on site to receive email and all electronic move coordination materials and information. All Supervisors shall be able to fully communicate in both spoken and written form with the Project Team and have electronic tools to receive email and all move coordination materials while on site during moves.

(2) Move Supervisors: (1) at origin and (1) at destination locations – Works with Lead project Supervisor to assure crew at origin and destination sites have the proper moving equipment and is handling the equipment securely, safely, and professionally. Supervisor/s shall be on site for each lab move for the duration of each move and shall have electronic tools on site to receive email and all electronic move coordination materials and information. All Supervisors shall be able to fully communicate in both spoken and written form with the Project Team. Supervisor personnel shall be identified in Bidder response and shall be committed to project for the duration of project. No changes or substitutes shall allowed without a minimum of 30 day notice and approved by Relocation Management Team.

.4 Building protective materials at both Origin and Destination sites will be planned to install a minimum of one day prior to start of each move per phase, per building and by each week of move activities. Building protective materials to include but not limited to wall protection, floor protection, corner protection and elevator protection. All materials and labor to be broken in in detail in the quotation responses. Bidder will be responsible for removing and disposing all building protection at the end of each move phase.

.5 Move Materials shall include the following:

<u>Offices</u>

a. O&I Boxes (auto bottom)

b. Newsprint (paper wrap)

c. Colored Move Labels (shall be removable)

d. Bubble wrap (small bubble)

e. Plastic bags (for computer equipment cords, keyboard and mouse)

f. Monitor sleeves

g. Security tape

Laboratories

a. O&I Boxes (auto bottom)

b. 5.0 boxes

c. Packing tape for 5.0 boxes

d. Bubble Wrap (small bubble)

e. Cold packs and Bubble Wrap for Refrigeration Packing

f. Newsprint (paper wrap)

g. Colored Move Labels (shall be removable)

h. Monitor Sleeves

i. Keyboard Baggies

j. Shrink wrap (non-static)

k. All necessary means & methods for conveyance of items (I.e.: moving dollies, skates, etc…)

l. All necessary means & methods to ensure safe conveyance and transport of items.

.6 Office Equipment Relocation

a. Department personnel are responsible to shut down computers and disconnect necessary cabling on all computer, printers, and copier equipment prior to relocation. Department personnel will reconnect all desktop equipment once relocated.

b. Department personnel will clearly label items that are not to be relocated by bidder. (Bidder to provide removable labels)

c. Bidder is not responsible for relocating office furniture except identified bookcases, lateral files or chairs.

d. Bidder is required to pack, prep, secure, transport, unload and place all general desk contents (small office items, paper, books, binders, journals, etc.), computers, monitors and printers that have been identified to relocate. Once items are packed, all items shall be protected to ensure no damage occurs during transport. Bidder is not responsible for unpacking boxes. Boxes shall be placed neatly on the floor next to the desk or against the wall. Monitors shall be placed directly on the desk.

e. Bidder is responsible for properly labeling the boxes to ensure items are relocated to correct destination location. Bidder shall refer to 01 15 00 Technical Specifications for origin and destination locations.

BSP Office Relocations Typical Office Move	
Average Box Count	12-15 boxes
Number of Bookcases	1
Number of Monitors	1
Number of CPUs	1
Number of Printers	1
Hanging Items to be relocated only	1

BSP Office Move Counts

Occupant Type by BSP Floor	Basement and First Floor	Second Floor	Third Floor	Fourth Floor
Faculty (Private Office)	9	6	6	6
Graduate Students (Workstation)	35	19	18	24
Researchers (Shared Offices)	7	0	0	2
Admin Staff (HSRI, CCBM, MACES) (Shared Offices)	2	10	0	0
Grand Total	53	35	24	32

a. Bidder shall relocate 22 offices and workstations (total of 2211 sq. ft) from the origin location to the Health and Athletic Center.

HAC Office Move Counts

Occupant Type by HAC floor	First Floor	Second Floor
Workstations	2	5
Offices	0	15
Grand Total	2	20

HAC Office Relocations Typical Office Move	
Average Box Count	10-15 boxes
Number of Monitors	1
Floor Lamp	1
Side Table	1
Number of CPUs	1
Number of Printers	1
Hanging Items to be relocated only	2

ALTERNATE 1:

a. Bidder shall provide a credit for University to pack, and label at origin sites and unpack at destination all items identified in Scope of Work 01 11 00.01.

b. Bidder shall relocate, transport, unload, and secure all items labeled by Department Personnel. All packing material consistent with 2.0.5 shall be provided to Department Personnel to pack all items identified in Technical Specifications. Move materials shall be provided to each lab within 48 hours of notice of award. If additional packing material is requested, bidder is required to deliver within 24 hours of request.

ALTERNATE 2:

c. Bidder shall provide a separate price to pack and prep all of the equipment and supplies in Exam Room 5 (Room 245) and Exam Room 6 (Room 260) in Gallo Recreation and Wellness Building and secure, transport, unload and place all of the equipment in the Health and Athletic Center at a later date. All packing material consistent with 2.0.5 shall be provided to Department Personnel to pack all items identified.

.7 Laboratory & Health Equipment Relocation

a. Bidder is required to prep, pack, label, secure, transport, unload, and unpack all items listed in Laboratory Equipment Matrices, as well as all desktop devices (computers, printers, scanners, etc.), general contents, and all identified laboratory support materials. Bidder is required to pack, prep, label, secure, transport, unload, and place all laboratory contents (small equipment and supplies) that may not be tagged or included on Laboratory Equipment Matrices

b. Bidder shall pack and unpack glassware. Glassware will be cleaned and decontaminated by Department personnel prior to handling by move crews.

c. Once items are packed, bidder shall protect all items to ensure no damage occurs during transport.

d. Bidder is required to remove all keys to corresponding items (i.e.: refrigeration units, supply cabinets, file cabinets, etc…) prior to move. Upon arrival at destination keys are to be placed back to original position on said item within 24 hours of placing the corresponding equipment. Bidder will be responsible for replacing any lost keys.

.8 Health Equipment Relocation

a. Bidder may be required to work around the open Health Center at the origin and destination location. Elevator priority shall be given to disabled patients and/or healthcare workers in the event of medical emergency. Work shall be sequenced to minimize any disruption to the Health Center

.9 Seismic bracing will be provided by others.

.10 Move Requirements shall be typical of all laboratories and offices programmed to be relocated to the new UC Merced Biomedical Sciences and Physics (BSP) Building and Health and Athletic Center (HAC) Building.

a. The Bidder's Project Manager is required to survey with Criterion, Relocation Management Team, all laboratory areas, and associated office spaces including building access points prior to each move. Bidder shall coordinate with Relocation Management Team, Criterion, on schedule and timing. It is mandatory that this is done for each laboratory in advance, to assure the necessary equipment, materials and manpower is provided on move day.

.11 Specialty Items:

There are a few labs that require special handling of unique items. They are as follows:

a. Biosafety cabinet will need to be attached to the stand at destination location by Bidder.

b. Water Purification Systems shall be placed on the bench at designated location. De-installation and re-installation of existing water purifiers will be performed by the University.

c. Work Benches, tables, shelving or similar items from list shall be relocated from origin to destination location whereby the Bidder shall be responsible for re-assembly or attachment of legs at destination location.

d. Tools shall be required for move team supervisor for each day and segment of the relocations to perform all required re-assembly for lab equipment.

3.0 SCOPE OF WORK – GENERAL

Bidder must include in their proposal, commitment and assurances of the following requirements if awarded a contract:

.1 All staff assigned to a project shall wear a company uniform identifying employee's name.

.2 All staff assigned to project shall be able to converse in and understand English sufficiently to effectively conduct business associated with the contract, have been employed by the bidder for a minimum of 6 months, and bonded by the bidder.

Bidder will be required to submit in advance a list of all staff assigned to the project, including staff that may provide backup for illness or vacation.

.3 Bidder is required to provide the following, in addition to move crew and performs the following responsibilities:

(1) Lead Project Supervisor: Shall manage move supervisors at origin and destination sites to assure crews follow move schedules.

.4 No work shall be done outside of standard Monday through Friday 7:00 A.M. to 5:00 P.M. working hours, on holidays or weekends unless prior written approval has been obtained by the University.

.5 Bidder will be required to purchase parking permits for all personal vehicles from the University's Transportation and Parking Services department (TAPS). Parking permits can be purchased on a monthly basis. Please contact TAPS at 209-4548 or visit taps.ucmerced.edu. A valid permit must be displayed while parked on campus. Any vehicles without proper permits will be cited and fined.

.6 All crews including contractors and subcontractors will be required to adhere to COVID-19 requirements at all times. All workers shall:

- Wear face coverings or masks at all times.
- Bidder will be required to do health screenings at the start of each day including taking temperature of all workers on site including supervisors. Any worker with a fever or persistent cough or is feeling unwell shall be sent home.
- All workers will be required to hand sanitize multiple times throughout the day. Bidder will be required to provide their workers access to hand sanitizer.
- Work gloves may be worn but will be required to be sanitized if worker is touching face with gloves. Work gloves shall not be worn in the restrooms.
- Workers shall practice social distancing of 6 feet minimum while on break and lunch.

.7 Bidders shall control the conduct of its employees and those of its subcontractors and suppliers so as to prevent interaction initiated by said employees with University of California, Merced students, staff or other individuals (except those associated with the Project) on or adjacent to the Project site. Without limitation, unwanted interaction by these employees include whistling at, motion toward or initiating conversations with passerby. In the event that any worker initiates such unwanted interaction or utilizes profanity, the Bidder shall, either upon request of the University or its own initiative, replace said employee with another of equivalent technical skill at no additional cost to the University.

.8 Smoking, the use of tobacco products and the use of unregulated nicotine products (e.g. e-cigarettes) is prohibited on campus.

.9 Bidder required to provide any ramps from/to moving vehicles to/from facilities and protective coverings during inclement weather.

.10 The Bidder is required to survey all corresponding origin and destination locations including building access points prior to each move and coordinate with Relocation Management Team, Criterion, on schedule and timing. It is mandatory that this is done for each laboratory in advance, to assure the necessary equipment, materials and manpower is provided on move day

.11 All truck staging areas are to be discussed in advance with the Relocation Management Team and approved by University. No fire lanes or hydrants shall be blocked.

.12 Bidder shall be responsible to remove all dunnage every day created during the move process. In addition, Bidder shall remove all tools and equipment from the buildings unless requested by the University. Bidder is responsible for cleaning surrounding grounds where move vehicles and staging areas are located.

.13 Bidder shall at no time leave any UC Merced property unattended in an area construed to be public or have access by student and other personnel. All University property shall be stored and locked at the end of every working day. Any reported loss of property shall be evaluated and if Bidder is found to be negligent, contractor shall be responsible to replace item at his cost.

.14 Bidder shall guarantee adequate manpower, trucks and equipment is available to perform the services noted in these documents and bidders' walk-through. Bidder is also required to explain total number of full-time permanent personnel and number of subcontractors or temporary personnel and sources from which personnel are hired.

.15 Bidder shall at no time leave diesel trucks operating for extensive periods of time at origin and destination. Bidder is responsible to be as quiet as possible during the move process so as not to interfere with campus functions. Playing of music is not acceptable by movers during the move process.

.16 The type of trucks to be used to transport materials must have air ride suspension. Due to the tight quarters on campus and pedestrian traffic, contractor cannot use tractor trailers. Bob-tail trucks with a box length no greater than 24 feet are required.

.17 Bidder shall be responsible for damage caused to, the property or assets of the University, its contractors or other Indemnified Parties that is caused by the Bidder and their subcontractors. Bidder is required to report any damage to any University property (owned or leased) to the University within 3 business days of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once damage is reported, University will have JCI or Facilities Management assess the damage and provide an estimate for replacing or repairing the damaged area(s). From the date of issuance of estimate, Mover will be required to issue payment to the University within 60 days for the full estimate value. If the Bidder fails to do so, University may at their discretion, short pay the Bidder to cover the cost of the damage.

.18 Bidder shall be responsible for any loss of, or damage caused to, any office or laboratory equipment, furniture or supplies that is caused by the Bidder and/or subcontractors during the

relocation. Bidder will be responsible for the full replacement value that is equal to the damaged item(s). Bidder is required to report any damage to any University property (owned or leased) to the University within 1 business day of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once the damage is report, the University will provide an estimated cost for the full replacement value or repairs to the damaged item to the Bidder. The Bidder will have 5 business days to accept or reject the estimate. If an estimate is accepted, Bidder shall issue payment to the University within 45 days of acceptance. If the estimate is rejected, the Bidder will be required to provide justification and revised estimate for University approval within 10 business days from the date of the rejection. If the Bidder fails to do so or becomes unresponsive, University may at their discretion, short pay the Bidder to cover the cost of the damage.

SECTION 01 11 00.02

SCOPE OF WORK

TRADE PACKAGE .02 – REFRIGERATION & INCUBATORS

1.0 SCOPE OF WORK - SPECIFICATIONS

Furnish all labor, material, equipment, taxes, and supervision necessary to perform all requirements of Division 0, Division 1, the following specifications section and all work shown on the drawings and specified documents in complete accordance with the Contract Documents:

SPECIFICATION SECTION	
01 15 00	Technical Specifications
01 23 00	Alternates

2.0 SCOPE OF WORK – SPECIFIC

.1 Description – Bidder is required to provide relocation services for incubators, refrigerators and freezers. An inventory was performed for Laboratory Equipment & Machinery, see Technical Specifications for all Laboratory items identified to relocate.

.2 The Laboratory Equipment Inventory Matrix captures the following information:

a. Origin Building Name and Room Number

b. Destination Building Name and Room Number

c. Equipment Description

d. Manufacturer

e. Model Number

f. Maximum time equipment can be unplugged.

.3 Technical Requirements – An inventory was performed for Laboratory Equipment, see Specification 01 15 00 – Technical Specifications and Equipment Placement Drawings illustrating locations of specific equipment items. Refer to the Refrigeration and Incubator Matrix for the Laboratory Equipment requiring services, the Origin Building drawings showing lab locations and the Destination Lab drawings for all destination locations of existing equipment.

.4 Bidder shall provide materials and equipment needed to prepare space(s) for moving equipment items. All campuses and buildings and spaces shall be walked to review, develop, and propose path of travel for equipment relocation.

a. All necessary materials required to safely and successfully prepare the refrigeration and incubators shall be provided on site through the duration of the move.

b. All necessary means & methods for conveyance of items (I.e.: moving dollies, skates, etc…)

c. All necessary means & methods to ensure safe conveyance and transport of items to include cold packs to ensure maintenance of refrigeration contents temperature(s) and bubble wrap to prevent movement of contents during transit of equipment or like accommodations. Bidder is required to adhere to the maximum time the equipment can be unplugged as outlined in the Technical Specifications 01 15 00. In addition, bidder is expected to implement best practices to minimize the time the equipment is unplugged such as "last on, first off" or dedicate move for the equipment.

d. Bidder will be responsible for replacement of all contents within the refrigerators, freezers and incubators that were lost due negligence or failure to adhere to the maximum time equipment can be unplugged listed in the Technical Specifications.

.5 Seismic bracing will be provided by others.

.6 The Bidder is required to provide any additional building protection required. General building protection will be provided by the General Mover.

.7 Bidder is responsible for properly labeling the equipment to ensure items are relocated to correct destination location. Bidder shall refer to 01 15 00 Technical Specifications for origin and destination locations.

ALTERNATE 1:

a. Bidder shall provide separate cost for trucks with power for equipment to be plugged in during relocation.

3.0 SCOPE OF WORK – GENERAL

Bidder must include in their proposal, commitment and assurances of the following requirements if awarded a contract:

.1 All staff assigned to a project shall wear a company uniform identifying employee's name.

.2 All staff assigned to project shall be able to converse in and understand English sufficiently to effectively conduct business associated with the contract, have been employed by the bidder for a minimum of 6 months, and bonded by the bidder.

Bidder will be required to submit in advance a list of all staff assigned to the project, including staff that may provide backup for illness or vacation.

.3 Bidder is required to provide the following, in addition to move crew and performs the following responsibilities:

(1) Lead Project Supervisor: Shall manage move supervisors at origin and destination sites to assure crews follow move schedules.

.4 No work shall be done outside of standard Monday through Friday 7:00 A.M. to 5:00 P.M working hours, on holidays or weekends unless prior written approval has been obtained by the University.

.5 Bidder will be required to purchase parking permits for all personal vehicles from the University's Transportation and Parking Services department (TAPS). Parking permits can be purchased on a monthly basis. Please contact TAPS at 209-4548 or visit taps.ucmerced.edu. A valid permit must be displayed while parked on campus. Any vehicles without proper permits will be cited and fined.

.6 All crews including contractors and subcontractors will be required to adhere to COVID-19 requirements at all times. All workers shall:

- Wear face coverings or masks at all times.
- Bidder will be required to do health screenings at the start of each day. Any worker with a fever or persistent cough or is feeling unwell shall be sent home.
- All workers will be required to hand sanitize multiple times throughout the day. Bidder will be required to provide their workers access to hand sanitizer.
- Work gloves may be worn but will be required to be sanitized if worker is touching face with gloves. Work gloves shall not be worn in the restrooms.
- Workers shall practice social distancing of 6 feet minimum while on break and lunch.

.7 Bidders shall control the conduct of its employees and those of its subcontractors and suppliers so as to prevent interaction initiated by said employees with University of California, Merced students, staff or other individuals (except those associated with the Project) on or adjacent to the Project site. Without limitation, unwanted interaction by these employees include whistling at, motion toward or initiating conversations with passerby. In the event that any worker inititates such unwanted interaction or utilizes profanity, the Bidder shall, either upon request of the University or its own initiative, replace said employee with another of equivalent technical skill at no additional cost to the University.

.8 Smoking, the use of tobacco products and the use of unregulated nicotine products (e.g. e-cigarettes) is prohibited on campus.

.9 Bidder required to provide any ramps from/to moving vehicles to/from facilities and protective coverings during inclement weather.

.10 The Bidder is required to survey all corresponding origin and destination locations including building access points prior to each move and coordinate with Relocation Management Team, Criterion, on schedule and timing. It is mandatory that this is done for each laboratory in advance, to assure the necessary equipment, materials and manpower is provided on move day

.11 All truck staging areas are to be discussed in advance with the Relocation Management Team and approved by University. No fire lanes or hydrants shall be blocked.

.12 Bidder shall be responsible to remove all dunnage created during the move process. In addition, Bidder shall remove all tools and equipment from the buildings unless requested by the University. Bidder is responsible for cleaning surrounding grounds where move vehicles and staging areas are located.

.13 Bidder shall at no time leave any UC Merced property unattended in an area construed to be public or have access by student and other personnel. All University property shall be stored and locked at the end of every working day. Any reported loss of property shall be evaluated and if Bidder is found to be negligent, contractor shall be responsible to replace item at his cost.

.14 Bidder shall guarantee adequate manpower, trucks and equipment is available to perform the services noted in these documents and bidders' walk-through. Bidder is also required to explain total number of full-time permanent personnel and number of subcontractors or temporary personnel and sources from which personnel are hired.

.15 Bidder shall at no time leave diesel trucks operating for extensive periods of time at origin and destination. Bidder is responsible to be as quiet as possible during the move process so as not to interfere with campus functions. Playing of music is not acceptable by movers during the move process.

.16 The type of trucks to be used to transport materials must have air ride suspension. Due to the tight quarters on campus and pedestrian traffic, contractor cannot use tractor trailers. Bob-tail trucks with a box length no greater than 24 feet are required.

.17 Bidder shall be responsible for damage caused to, the property or assets of the University, its contractors or other Indemnified Parties that is caused by the Bidder and their subcontractors. Bidder is required to report any damage to any University property (owned or leased) to the University within 3 business days of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once damage is reported, University will have JCI or Facilities Management assess the damage and provide an estimate for replacing or repairing the damaged area(s). From the date of issuance of estimate, Mover will be required to issue payment to the University within 60 days for the full estimate value. If the Bidder fails to do so, University may at their discretion, short pay the Bidder to cover the cost of the damage.

.18 Bidder shall be responsible for any loss of, or damage caused to, any office or laboratory equipment, furniture or supplies that is caused by the Bidder and/or subcontractors during the relocation. Bidder will be responsible for the full replacement value that is equal to the damaged item(s). Bidder is required to report any damage to any University property (owned or leased) to the University within 1 business day of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once the damage is report, the University will provide an estimated cost for the full replacement value or repairs to the damaged item to the Bidder. The Bidder will have 5 business days to accept or reject the estimate. If an estimate is accepted, Bidder shall issue payment to the University within 45 days of acceptance. If the estimate is rejected, the Bidder will be required to provide justification and revised estimate for University approval within 10 business days from the date of the rejection. If the Bidder fails to do so or becomes unresponsive, University may at their discretion, short pay the Bidder to cover the cost of the damage.

SECTION 01 11 00.03

SCOPE OF WORK

TRADE PACKAGE .03 – RIGGING

1.0 SCOPE OF WORK - SPECIFICATIONS

Furnish all labor, material, equipment, taxes, and supervision necessary to perform all requirements of Division 0, Division 1, the following specifications section and all work shown on the drawings and specified documents in complete accordance with the Contract Documents:

SPECIFICATION SECTION

.01 01 15 00 Technical Specifications

2.0 SCOPE OF WORK – SPECIFIC

.1 Description – Bidder is required to provide Rigging Services for specialized machinery. An inventory was performed for Laboratory Equipment & Machinery, see Technical Specifications for all Laboratory items identified to relocate.

.2 The Laboratory Equipment Inventory Matrix captures the following information:

a. Origin Building Name and Room Number

b. Destination Building Name and Room Number

c. Equipment Description

d. Manufacturer

e. Model Number

.3 Technical Requirements – An inventory was performed for Laboratory Equipment, see Specification 01 15 00 – Technical Specifications and Equipment Placement Drawings illustrating locations of specific equipment items. Refer to the Rigging Matrix for the Laboratory Equipment requiring services, the Origin Building drawings showing lab locations and the Destination Lab drawings for all destination locations of existing equipment.

.4 Bidder shall provide materials and equipment needed to prepare space/s for rigging equipment items. All campuses and buildings and spaces shall be walked to review, develop and propose path of travel for equipment requiring rigging.

a. All necessary materials required to safely and successfully prepare the machinery shall be provided on site through the duration of the move.

b. All necessary means & methods for conveyance of items (I.e.: moving dollies, skates, etc…)

c. All necessary means & methods to ensure safe conveyance and transport of items.

d. Rigging service shall specify the truck quantities and sizes for University approval.

.5 The Bidder is required to provide any additional building protection required. General building protection will be provided by the General Mover.

.6 Bidder is responsible for properly labeling the equipment to ensure items are relocated to correct destination location. Bidder shall refer to 01 15 00 Technical Specifications for origin and destination locations.

.7 Rigging scope of work is for Biomedical Science and Physics building. No scope of work for Health and Athletic Center relocation.

3.0 SCOPE OF WORK – GENERAL

Bidder must include in their proposal, commitment and assurances of the following requirements if awarded a contract:

.1 All staff assigned to a project shall wear a company uniform identifying employee's name.

.2 All staff assigned to project shall be able to converse in and understand English sufficiently to effectively conduct business associated with the contract, have been employed by the bidder for a minimum of 6 months, and bonded by the bidder.

Bidder will be required to submit in advance a list of all staff assigned to the project, including staff that may provide backup for illness or vacation.

.3 Bidder is required to provide the following, in addition to move crew and performs the following responsibilities:

(1) Lead Project Supervisor: Shall manage move supervisors at origin and destination sites to assure crews follow move schedules.

.4 No work shall be done outside of standard Monday through Friday 7:00 A.M. to 5:00 P.M working hours, on holidays or weekends unless prior written approval has been obtained by the University.

.5 Bidder will be required to purchase parking permits for all personal vehicles from the University's Transportation and Parking Services department (TAPS). Parking permits can be purchased on a monthly basis. Please contact TAPS at 209-4548 or visit taps.ucmerced.edu. A valid permit must be displayed while parked on campus. Any vehicles without proper permits will be cited and fined.

.6 All crews including contractors and subcontractors will be required to adhere to COVID-19 requirements at all times. All workers shall:

- Wear face coverings or masks at all times.
- Bidder will be required to do health screenings at the start of each day. Any worker with a fever or persistent cough or is feeling unwell shall be sent home.
- All workers will be required to hand sanitize multiple times throughout the day. Bidder will be required to provide their workers access to hand sanitizer.

- Work gloves may be worn but will be required to be sanitized if worker is touching face with gloves. Work gloves shall not be worn in the restrooms.
- Workers shall practice social distancing of 6 feet minimum while on break and lunch.

.7 Bidders shall control the conduct of its employees and those of its subcontractors and suppliers so as to prevent interaction initiated by said employees with University of California, Merced students, staff or other individuals (except those associated with the Project) on or adjacent to the Project site. Without limitation, unwanted interaction by these employees include whistling at, motion toward or initiating conversations with passerby. In the event that any worker initiates such unwanted interaction or utilizes profanity, the Bidder shall, either upon request of the University or its own initiative, replace said employee with another of equivalent technical skill at no additional cost to the University.

.8 Smoking, the use of tobacco products and the use of unregulated nicotine products (e.g. e-cigarettes) is prohibited on campus.

.9 Bidder required to provide any ramps from/to moving vehicles to/from facilities and protective coverings during inclement weather.

.10 The Bidder is required to survey all corresponding origin and destination locations including building access points prior to each move and coordinate with Relocation Management Team, Criterion, on schedule and timing. It is mandatory that this is done for each laboratory in advance, to assure the necessary equipment, materials and manpower is provided on move day

.11 All truck staging areas are to be discussed in advance with the Relocation Management Team and approved by University. No fire lanes or hydrants shall be blocked.

.12 Bidder shall be responsible to remove all dunnage created during the move process. In addition, Bidder shall remove all tools and equipment from the buildings unless requested by the University. Bidder is responsible for cleaning surrounding grounds where move vehicles and staging areas are located.

.13 Bidder shall at no time leave any UC Merced property unattended in an area construed to be public or have access by student and other personnel. All University property shall be stored and locked at the end of every working day. Any reported loss of property shall be evaluated and if Bidder is found to be negligent, contractor shall be responsible to replace item at his cost.

.14 Bidder shall guarantee adequate manpower, trucks and equipment is available to perform the services noted in these documents and bidders' walk-through. Bidder is also required to explain total number of full-time permanent personnel and number of subcontractors or temporary personnel and sources from which personnel are hired.

.15 Bidder shall at no time leave diesel trucks operating for extensive periods of time at origin and destination. Bidder is responsible to be as quiet as possible during the move process so as not to interfere with campus functions. Playing of music is not acceptable by movers during the move process.

.16 The type of trucks to be used to transport materials must have air ride suspension. Due to the tight quarters on campus and pedestrian traffic, contractor cannot use tractor trailers. Bob-tail trucks with a box length no greater than 24 feet are required.

.17 Bidder shall be responsible for damage caused to, the property or assets of the University, its contractors or other Indemnified Parties that is caused by the Bidder and their subcontractors. Bidder is required to report any damage to any University property (owned or leased) to the University within 3 business days of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once damage is reported, University will have JCI or Facilities Management assess the damage and provide an estimate for replacing or repairing the damaged area(s). From the date of issuance of estimate, Mover will be required to issue payment to the University within 60 days for the full estimate value. If the Bidder fails to do so, University may at their discretion, short pay the Bidder to cover the cost of the damage.

.18 Bidder shall be responsible for any loss of, or damage caused to, any office or laboratory equipment, furniture or supplies that is caused by the Bidder and/or subcontractors during the relocation. Bidder will be responsible for the full replacement value that is equal to the damaged item(s). Bidder is required to report any damage to any University property (owned or leased) to the University within 1 business day of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once the damage is report, the University will provide an estimated cost for the full replacement value or repairs to the damaged item to the Bidder. The Bidder will have 5 business days to accept or reject the estimate. If an estimate is accepted, Bidder shall issue payment to the University within 45 days of acceptance. If the estimate is rejected, the Bidder will be required to provide justification and revised estimate for University approval within 10 business days from the date of the rejection. If the Bidder fails to do so or becomes unresponsive, University may at their discretion, short pay the Bidder to cover the cost of the damage.

SECTION 01 11 00.04

SCOPE OF WORK

TRADE PACKAGE .04 – CHEMICAL MOVER

1.0 SCOPE OF WORK - SPECIFICATIONS

Furnish all labor, material, equipment, taxes, and supervision necessary to perform all requirements of Division 0, Division 1, the following specifications section and all work shown on the drawings and specified documents in complete accordance with the Contract Documents:

SPECIFICATION SECTION

.01 01 15 00 Technical Specifications

2.0 BSP SCOPE OF WORK – SPECIFIC

.1 Description – Bidder is required to provide Chemical Moving Services for laboratory and health center spaces. An inventory was provided by University of California, Merced for chemicals kept in laboratories on site which will relocate.

.2 The Laboratory Chemical Inventory Matrix captures the following information for BSP spaces:

a. Chemical Name
b. CAS
c. Molecular Formula
d. Physical State
e. Hazard
f. Inventory Name
g. Building Location
h. Floor, Room and Sublocation
i. Size, Amount, Units
j. Container Type
k. Concentration
l. Solvent
m. Received Date, Open Date and Barcode

.3 Heath Center space has provide a matrices of the type of chemicals that will need to be relocated. In addition, Health Center will need their medicine and vaccines relocated.

.4 Chemical Inventory – Refer to the Laboratory Chemicals outlined in the Technical Specifications Chemical Inventory Matrix moving from origin site to destination site.

.5 Packing Materials

a. All necessary means & methods for preparation and packing materials for all chemicals identified to relocate.

b. All necessary means & methods for conveyance of items from origin to destination and for disposal of non-compliant materials.

.6 Bidder to assess and identify of non-compliant chemical inventory and related materials in each laboratory. Any non-compliant chemicals should be report to the University.

.7 Bidder is expected to adhere to all Federal and State laws and regulations regarding relocating and transporting chemicals.

.8 Bidder is required to provide the following, in addition to move crew and performs the following responsibilities:

(1) Chemist: Shall be appropriately credentialed and highly trained personnel to provide onsite presence and oversight of chemical preparation, packing and relocation.

.9 Bidder is expected to place chemicals on lab benches for University final placement.

.10 Cylinders in labs, back up storage in lab or elsewhere in origin buildings shall be relocated on day of move and placed at destination location. University is responsible for disconnecting and reconnecting the cylinders

.11 Specimen in labs will packed in the appropriate medium, transported, and placed at destination in the container or equipment they came from. All items deliveries to be closely coordinated with general mover for equipment deliveries.

.12 Chemicals stored in refrigerated units shall be unpacked, packed, transported in temperature safe containers to maintain temperature, unpacked at destination and place in final location at destination lab. Bidder to provide necessary materials for safe conveyance of chemicals.

.13 Bidder is responsible for ensuring chemicals and cylinders are properly closed and ready for transport.

.14 Bidder is responsible for properly labeling the equipment to ensure items are relocated to correct destination location. Bidder shall refer to 01 15 00 Technical Specifications for origin and destination locations.

3.0 SCOPE OF WORK – GENERAL

Bidder must include in their proposal, commitment and assurances of the following requirements if awarded a contract:

.1 All staff assigned to a project shall wear a company uniform identifying employee's name.

.2 All staff assigned to project shall be able to converse in and understand English sufficiently to effectively conduct business associated with the contract, have been employed by the bidder for a minimum of 6 months, and bonded by the bidder.

Bidder will be required to submit in advance a list of all staff assigned to the project, including staff that may provide backup for illness or vacation.

.3 Bidder is required to provide the following, in addition to move crew and performs the following responsibilities:

(1) Lead Project Supervisor: Shall manage move supervisors at origin and destination sites to assure crews follow move schedules.

.4 No work shall be done outside of standard Monday through Friday 7:00 A.M. to 5:00 P.M working hours, on holidays or weekends unless prior written approval has been obtained by the University.

.5 Bidder will be required to purchase parking permits for all personal vehicles from the University's Transportation and Parking Services department (TAPS). Parking permits can be purchased on a monthly basis. Please contact TAPS at 209-4548 or visit taps.ucmerced.edu. A valid permit must be displayed while parked on campus. Any vehicles without proper permits will be cited and fined.

.6 All crews including contractors and subcontractors will be required to adhere to COVID-19 requirements at all times. All workers shall:

- Wear face coverings or masks at all times.
- Bidder will be required to do health screenings at the start of each day. Any worker with a fever or persistent cough or is feeling unwell shall be sent home.
- All workers will be required to hand sanitize multiple times throughout the day. Bidder will be required to provide their workers access to hand sanitizer.
- Work gloves may be worn but will be required to be sanitized if worker is touching face with gloves. Work gloves shall not be worn in the restrooms.
- Workers shall practice social distancing of 6 feet minimum while on break and lunch.

.7 Bidders shall control the conduct of its employees and those of its subcontractors and suppliers so as to prevent interaction initiated by said employees with University of California, Merced students, staff or other individuals (except those associated with the Project) on or adjacent to the Project site. Without limitation, unwanted interaction by these employees include whistling at, motion toward or initiating conversations with passerby. In the event that any worker inititates such unwanted interaction or utilizes profanity, the Bidder shall, either upon request of the University or its own initiative, replace said employee with another of equivalent technical skill at no additional cost to the University.

.8 Smoking, the use of tobacco products and the use of unregulated nicotine products (e.g. e-cigarettes) is prohibited on campus.

.9 Bidder required to provide any ramps from/to moving vehicles to/from facilities and protective coverings during inclement weather.

.10 The Bidder is required to survey all corresponding origin and destination locations including building access points prior to each move and coordinate with Relocation Management Team, Criterion, on schedule and timing. It is mandatory that this is done for each laboratory in advance, to assure the necessary equipment, materials and manpower is provided on move day

.11 All truck staging areas are to be discussed in advance with the Relocation Management Team and approved by University. No fire lanes or hydrants shall be blocked.

.12 Bidder shall be responsible to remove all dunnage created during the move process. In addition, Bidder shall remove all tools and equipment from the buildings unless requested by the University. Bidder is responsible for cleaning surrounding grounds where move vehicles and staging areas are located.

.13 Bidder shall at no time leave any UC Merced property unattended in an area construed to be public or have access by student and other personnel. All University property shall be stored and locked at the end of every working day. Any reported loss of property shall be evaluated and if Bidder is found to be negligent, contractor shall be responsible to replace item at his cost.

.14 Bidder shall guarantee adequate manpower, trucks and equipment is available to perform the services noted in these documents and bidders' walk-through. Bidder is also required to explain total number of full-time permanent personnel and number of subcontractors or temporary personnel and sources from which personnel are hired.

.15 Bidder shall at no time leave diesel trucks operating for extensive periods of time at origin and destination. Bidder is responsible to be as quiet as possible during the move process so as not to interfere with campus functions. Playing of music is not acceptable by movers during the move process.

.16 The type of trucks to be used to transport materials must have air ride suspension. Due to the tight quarters on campus and pedestrian traffic, contractor cannot use tractor trailers. Bob-tail trucks with a box length no greater than 24 feet are required.

.17 Bidder shall be responsible for damage caused to, the property or assets of the University, its contractors or other Indemnified Parties that is caused by the Bidder and their subcontractors. Bidder is required to report any damage to any University property (owned or leased) to the University within 3 business days of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once damage is reported, University will have JCI or Facilities Management assess the damage and provide an estimate for replacing or repairing the damaged area(s). From the date of issuance of estimate, Mover will be required to issue payment to the University within 60 days for the full estimate value. If the Bidder fails to do so, University may at their discretion, short pay the Bidder to cover the cost of the damage.

.18 Bidder shall be responsible for any loss of, or damage caused to, any office or laboratory equipment, furniture or supplies that is caused by the Bidder and/or subcontractors during the relocation. Bidder will be responsible for the full replacement value that is equal to the damaged item(s). Bidder is required to report any damage to any University property (owned or leased) to

the University within 1 business day of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once the damage is report, the University will provide an estimated cost for the full replacement value or repairs to the damaged item to the Bidder. The Bidder will have 5 business days to accept or reject the estimate. If an estimate is accepted, Bidder shall issue payment to the University within 45 days of acceptance. If the estimate is rejected, the Bidder will be required to provide justification and revised estimate for University approval within 10 business days from the date of the rejection. If the Bidder fails to do so or becomes unresponsive, University may at their discretion, short pay the Bidder to cover the cost of the damage.

SECTION 01 11 00.05

SCOPE OF WORK

TRADE PACKAGE .05 – DECONTAMINATION

1.0 SCOPE OF WORK - SPECIFICATIONS

Furnish all labor, material, equipment, taxes, and supervision necessary to perform all requirements of Division 0, Division 1, the following specifications section and all work shown on the drawings and specified documents in complete accordance with the Contract Documents:

SPECIFICATION SECTION

.01 01 15 00 Technical Specifications

2.0 BSP SCOPE OF WORK – SPECIFIC

.1 Description – Bidder is required to provide decontamination services for laboratory spaces. Drawings were provided by University of California, Merced for identifying all of the spaces with approximate fume hood, sink and bench counts.

Estimate Counts by Building	Castle 1201	Science and Engineering 1	Science and Engineering 2
Fume Hood	3	22	7
Sink	12	23	19
Bench	70	150	103

.2 Decontamination services shall occur after the origin lab is vacated and be completed no later than January 15, 2021. Decontamination shall occur in 1 phase.

.3 Bench, sink and fume hood shall by decontaminated by isopropyl alcohol.

.4 Radioactive space identified in Science and Engineering 1 Room 100A (207 sq feet) contains BA-133 and Na-22. Space shall be decontaminated using best practices and applicable policy and law. Written report will be required to update the University's radioactive license.

.5 Bidder will be responsible for disposing any waste generated from the decontamination.

3.0 SCOPE OF WORK – GENERAL

Bidder must include in their proposal, commitment and assurances of the following requirements if awarded a contract:

.1 All staff assigned to a project shall wear a company uniform identifying employee's name.

.2 All staff assigned to project shall be able to converse in and understand English sufficiently to effectively conduct business associated with the contract, have been employed by the bidder for a minimum of 6 months, and bonded by the bidder.

Bidder will be required to submit in advance a list of all staff assigned to the project, including staff that may provide backup for illness or vacation.

.3 Bidder is required to provide the following, in addition to move crew and performs the following responsibilities:

(1) Lead Project Supervisor: Shall manage move supervisors at origin and destination sites to assure crews follow move schedules.

.4 No work shall be done outside of standard Monday through Friday 7:00 A.M. to 5:00 P.M working hours, on holidays or weekends unless prior written approval has been obtained by the University.

.5 Bidder will be required to purchase parking permits for all personal vehicles from the University's Transportation and Parking Services department (TAPS). Parking permits can be purchased on a monthly basis. Please contact TAPS at 209-4548 or visit taps.ucmerced.edu. A valid permit must be displayed while parked on campus. Any vehicles without proper permits will be cited and fined.

.6 All crews including contractors and subcontractors will be required to adhere to COVID-19 requirements at all times. All workers shall:

- Wear face coverings or masks at all times.
- Bidder will be required to do health screenings at the start of each day. Any worker with a fever or persistent cough or is feeling unwell shall be sent home.
- All workers will be required to hand sanitize multiple times throughout the day. Bidder will be required to provide their workers access to hand sanitizer.
- Work gloves may be worn but will be required to be sanitized if worker is touching face with gloves. Work gloves shall not be worn in the restrooms.
- Workers shall practice social distancing of 6 feet minimum while on break and lunch.

.7 Bidders shall control the conduct of its employees and those of its subcontractors and suppliers so as to prevent interaction initiated by said employees with University of California, Merced students, staff or other individuals (except those associated with the Project) on or adjacent to the Project site. Without limitation, unwanted interaction by these employees include whistling at, motion toward or initiating conversations with passerby. In the event that any worker inititates such unwanted interaction or utilizes profanity, the Bidder shall, either upon request of the University or its own initiative, replace said employee with another of equivalent technical skill at no additional cost to the University.

.8 Smoking, the use of tobacco products and the use of unregulated nicotine products (e.g. e-cigarettes) is prohibited on campus.

.9 Bidder required to provide any ramps from/to moving vehicles to/from facilities and protective coverings during inclement weather.

.10 The Bidder is required to survey all corresponding origin and destination locations including building access points prior to each move and coordinate with Relocation Management Team, Criterion, on schedule and timing. It is mandatory that this is done for each laboratory in advance, to assure the necessary equipment, materials and manpower is provided on move day

.11 All truck staging areas are to be discussed in advance with the Relocation Management Team and approved by University. No fire lanes or hydrants shall be blocked.

.12 Bidder shall be responsible to remove all dunnage created during the move process. In addition, Bidder shall remove all tools and equipment from the buildings unless requested by the University. Bidder is responsible for cleaning surrounding grounds where move vehicles and staging areas are located.

.13 Bidder shall at no time leave any UC Merced property unattended in an area construed to be public or have access by student and other personnel. All University property shall be stored and locked at the end of every working day. Any reported loss of property shall be evaluated and if Bidder is found to be negligent, contractor shall be responsible to replace item at his cost.

.14 Bidder shall guarantee adequate manpower, trucks and equipment is available to perform the services noted in these documents and bidders' walk-through. Bidder is also required to explain total number of full-time permanent personnel and number of subcontractors or temporary personnel and sources from which personnel are hired.

.15 Bidder shall at no time leave diesel trucks operating for extensive periods of time at origin and destination. Bidder is responsible to be as quiet as possible during the move process so as not to interfere with campus functions. Playing of music is not acceptable by movers during the move process.

.16 The type of trucks to be used to transport materials must have air ride suspension. Due to the tight quarters on campus and pedestrian traffic, contractor cannot use tractor trailers. Bob-tail trucks with a box length no greater than 24 feet are required.

.17 Bidder shall be responsible for damage caused to, the property or assets of the University, its contractors or other Indemnified Parties that is caused by the Bidder and their subcontractors. Bidder is required to report any damage to any University property (owned or leased) to the University within 3 business days of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once damage is reported, University will have JCI or Facilities Management assess the damage and provide an estimate for replacing or repairing the damaged area(s). From the date of issuance of estimate, Mover will be required to issue payment to the University within 60 days for the full estimate value. If the Bidder fails to do so, University may at their discretion, short pay the Bidder to cover the cost of the damage.

.18 Bidder shall be responsible for any loss of, or damage caused to, any office or laboratory equipment, furniture or supplies that is caused by the Bidder and/or subcontractors during the

relocation. Bidder will be responsible for the full replacement value that is equal to the damaged item(s). Bidder is required to report any damage to any University property (owned or leased) to the University within 1 business day of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once the damage is report, the University will provide an estimated cost for the full replacement value or repairs to the damaged item to the Bidder. The Bidder will have 5 business days to accept or reject the estimate. If an estimate is accepted, Bidder shall issue payment to the University within 45 days of acceptance. If the estimate is rejected, the Bidder will be required to provide justification and revised estimate for University approval within 10 business days from the date of the rejection. If the Bidder fails to do so or becomes unresponsive, University may at their discretion, short pay the Bidder to cover the cost of the damage.

SECTION 01 11 00.06

SCOPE OF WORK

TRADE PACKAGE .06 – TESTING & CALIBRATION

1.0 SCOPE OF WORK - SPECIFICATIONS

Furnish all labor, material, equipment, taxes, and supervision necessary to perform all requirements of Division 0, Division 1, the following specifications section and all work shown on the drawings and specified documents in complete accordance with the Contract Documents:

SPECIFICATION SECTION	
01 15 00	Technical Specifications

SCOPE OF WORK – SPECIFIC

.1 Description – Bidder is required to provide testing and calibration services for all equipment identified in Specification 01 15 00 – Technical Specifications. Post-move testing and calibration services should occur no later than 7 days after the equipment is relocated to the new lab location.

.2 The Laboratory Equipment Matrix and drawings provide the following information:

a. Destination Building Name and Room Number

b. Equipment Item Description

c. Manufacturer Name and Model Number

.3 Bidder is shall utilize industry standards and best practices for calibrating and testing equipment.

.4 Incubators and hoods will be turned on at least 24 hours prior to calibration. Any required gas cylinders will be hooked up prior to calibration.

.5 Bidder is responsible for submitting all calibration and testing reports to moves@ucmerced.edu within 5 days of site visit.

.6 University will not incur late or cancellation fees of canceling or rescheduling 2 or more business days in advance.

.7 Testing and Calibration services will be for BSP only. No scope for HAC.

3.0 SCOPE OF WORK – GENERAL

Bidder must include in their proposal, commitment and assurances of the following requirements if awarded a contract:

.1 All staff assigned to a project shall wear a company uniform identifying employee's name.

.2 All staff assigned to project shall be able to converse in and understand English sufficiently to effectively conduct business associated with the contract, have been employed by the bidder for a minimum of 6 months, and bonded by the bidder.

Bidder will be required to submit in advance a list of all staff assigned to the project, including staff that may provide backup for illness or vacation.

.3 Bidder is required to provide the following, in addition to move crew and performs the following responsibilities:

(1) Lead Project Supervisor

.4 No work shall be done outside of standard Monday through Friday 7:00 A.M. to 5:00 P.M working hours, on holidays or weekends unless prior written approval has been obtained by the University.

.5 Bidder will be required to purchase parking permits for all personal vehicles from the University's Transportation and Parking Services department (TAPS). Parking permits can be purchased on a monthly basis. Please contact TAPS at 209-4548 or visit taps.ucmerced.edu. A valid permit must be displayed while parked on campus. Any vehicles without proper permits will be cited and fined.

.6 All crews including contractors and subcontractors will be required to adhere to COVID-19 requirements at all times. All workers shall:

- Wear face coverings or masks at all times.
- Bidder will be required to do health screenings at the start of each day. Any worker with a fever or persistent cough or is feeling unwell shall be sent home.
- All workers will be required to hand sanitize multiple times throughout the day. Bidder will be required to provide their workers access to hand sanitizer.
- Work gloves may be worn but will be required to be sanitized if worker is touching face with gloves. Work gloves shall not be worn in the restrooms.
- Workers shall practice social distancing of 6 feet minimum while on break and lunch.

.7 Bidders shall control the conduct of its employees and those of its subcontractors and suppliers so as to prevent interaction initiated by said employees with University of California, Merced students, staff or other individuals (except those associated with the Project) on or adjacent to the Project site. Without limitation, unwanted interaction by these employees include whistling at, motion toward or initiating conversations with passerby. In the event that any worker initiates such unwanted interaction or utilizes profanity, the Bidder shall, either upon request of the University or its own initiative, replace said employee with another of equivalent technical skill at no additional cost to the University.

.8 Smoking, the use of tobacco products and the use of unregulated nicotine products (e.g. e-cigarettes) is prohibited on campus.

.9 Bidder required to provide any ramps from/to moving vehicles to/from facilities and protective coverings during inclement weather.

.10 The Bidder is required to survey all corresponding origin and destination locations including building access points prior to each move and coordinate with Relocation Management Team, Criterion, on schedule and timing. It is mandatory that this is done for each laboratory in advance, to assure the necessary equipment, materials and manpower is provided on move day

.11 All truck staging areas are to be discussed in advance with the Relocation Management Team and approved by University. No fire lanes or hydrants shall be blocked.

.12 Bidder shall be responsible to remove all dunnage created during the move process. In addition, Bidder shall remove all tools and equipment from the buildings unless requested by the University. Bidder is responsible for cleaning surrounding grounds where move vehicles and staging areas are located.

.13 Bidder shall at no time leave any UC Merced property unattended in an area construed to be public or have access by student and other personnel. All University property shall be stored and locked at the end of every working day. Any reported loss of property shall be evaluated and if Bidder is found to be negligent, contractor shall be responsible to replace item at his cost.

.14 Bidder shall guarantee adequate manpower, trucks and equipment is available to perform the services noted in these documents and bidders' walk-through. Bidder is also required to explain total number of full-time permanent personnel and number of subcontractors or temporary personnel and sources from which personnel are hired.

.15 Bidder shall at no time leave diesel trucks operating for extensive periods of time at origin and destination. Bidder is responsible to be as quiet as possible during the move process so as not to interfere with campus functions. Playing of music is not acceptable by movers during the move process.

.16 The type of trucks to be used to transport materials must have air ride suspension. Due to the tight quarters on campus and pedestrian traffic, contractor cannot use tractor trailers. Bob-tail trucks with a box length no greater than 24 feet are required.

.17 Bidder shall be responsible for damage caused to, the property or assets of the University, its contractors or other Indemnified Parties that is caused by the Bidder and their subcontractors. Bidder is required to report any damage to any University property (owned or leased) to the University within 3 business days of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once damage is reported, University will have JCI or Facilities Management assess the damage and provide an estimate for replacing or repairing the damaged area(s). From the date of issuance of estimate, Mover will be required to issue payment to the University within 60 days for the full estimate value. If the Bidder fails to do so, University may at their discretion, short pay the Bidder to cover the cost of the damage.

.18 Bidder shall be responsible for any loss of, or damage caused to, any office or laboratory equipment, furniture or supplies that is caused by the Bidder and/or subcontractors during the relocation. Bidder will be responsible for the full replacement value that is equal to the damaged item(s). Bidder is required to report any damage to any University property (owned or leased) to

the University within 1 business day of the occurrence. Reporting to the University shall be done by e-mail to moves@ucmerced.edu within 24 hours of the occurrence and should include pictures of the damage, location and description of the damage. Once the damage is report, the University will provide an estimated cost for the full replacement value or repairs to the damaged item to the Bidder. The Bidder will have 5 business days to accept or reject the estimate. If an estimate is accepted, Bidder shall issue payment to the University within 45 days of acceptance. If the estimate is rejected, the Bidder will be required to provide justification and revised estimate for University approval within 10 business days from the date of the rejection. If the Bidder fails to do so or becomes unresponsive, University may at their discretion, short pay the Bidder to cover the cost of the damage.

01 15 00 TECHNICAL SPECIFICATIONS

A: BSP LABORATORY EQUIPMENT INVENTORY MATRICES / CHEMICAL INVENTORY MATRIX

ATTACHMENT 00	LABORATORY EQUIPMENT MATRIX, GENERAL MOVER
ATTACHMENT 01	LABORATORY EQUIPMENT MATRIX, REFRIGERATION AND INCUBATOR
ATTACHMENT 02	LABORATORY EQUIPMENT MATRIX, RIGGER
ATTACHMENT 03	CHEMICAL INVENTORY MATRIX
ATTACHMENT 04	LABORATORY EQUIPMENT MATRIX, TESTING AND CALIBRATION

B: HAC LABORATORY EQUIPMENT INVENTORY MATRICES / CHEMICAL INVENTORY MATRIX

ATTACHMENT 05	LABORATORY EQUIPMENT MATRIX, GENERAL MOVER
ATTACHMENT 06	LABORATORY EQUIPMENT MATRIX, REFRIGERATION AND INCUBATOR
ATTACHMENT 07	CHEMICAL INVENTORY MATRIX

ORIGIN LOCATION DRAWINGS

ATTACHMENT 08	CAMPUS BUILDING ORIGIN FLOOR PLAN FOR BSP MOVES
ATTACHMENT 09	CAMPUS BUILDING ORIGIN FLOOR PLAN FOR HAC MOVES
ATTACHMENT 10	DECONTAMINATION AREAS IN ORIGIN BUILDINGS

DESTINATION DRAWINGS

ATTACHMENT 11	BSP DESTINATION BUILDING FLOOR PLANS
ATTACHMENT 12	HAC DESTINATION FLOOR PLANS
ATTACHMENT 13	BELLEVUE LOADING DOCK FLOOR PLAN

CAMPUS LOCATION MAPS & ROOM NUMBERS

ATTACHMENT 14	CAMPUS LOCATIONS MAP
ATTACHMENT 15	OTHER LOCATIONS MAP

LEGEND

Plumbing / Mechanical Consideration

Electrical Consideration

FACULTY MEMBER, PRINCIPAL INVESTIGATOR	ASSET TAG # [ENTER # FROM THE STICKER PROVIDED]	ITEM DESCRIPTION	MANUFACTURER NAME	WIDTH (INCHES)	DEPTH [FRONT TO BACK]	DEPTH [WITH DOOR OPEN] (INCHES)	DEPTH BEHIND EQ ITEM [MEAS	HEIGHT [TOP TO BOTTOM INCLUDING	HEIGHT [WHEN ITEM HAS	LOCATION/PLACEMENT [SELECT	SPECIAL NOTES OR COMMENTS
Aaron Hernday	00933	3-tier push cart	Rubbermaid	40.5	20			38		FLOOR	
Aaron Hernday	00930	Cell sorter	Millipore	16	22.5	25.5	0	14.75		BENCH TOP	Non-operational
Aaron Hernday	00925	Coat Rack	Songmics	35	17.5		3	72.25		FLOOR	
Aaron Hernday	00935	Ergonomic rolling chair		23	23			29.5	39.5	FLOOR	One chair per bench
Aaron Hernday	00936	Ergonomic rolling chair		23	23			29.5	39.5	FLOOR	One chair per bench
Aaron Hernday	00937	Ergonomic rolling chair		23	23			29.5	39.5	FLOOR	One chair per bench
Aaron Hernday	00938	Ergonomic rolling chair		23	23			29.5	39.5	FLOOR	One chair per bench
Aaron Hernday	00939	Ergonomic rolling chair		23	23			29.5	39.5	FLOOR	One chair per bench
Aaron Hernday	00940	Ergonomic rolling chair		23	23			29.5	39.5	FLOOR	One chair per bench
Aaron Hernday	00941	Ergonomic rolling chair		23	23			29.5	39.5	FLOOR	One chair per bench
Aaron Hernday	00942	Ergonomic rolling chair		23	23			29.5	39.5	FLOOR	One chair per bench
Aaron Hernday	00910	Fisher accuspin	Fisher	9	14		3	9	17	BENCH TOP	
Aaron Hernday	00911	Fisher accuspin	Fisher	10.5	16.75		3	13	22.25	BENCH TOP	
Aaron Hernday	00926	French door cabinet	Hernday Lab Cabinet 1	36	18	34.5	0	78		FLOOR	
Aaron Hernday	00927	French door cabinet	Hernday Lab Cabinet 2	36	18.5	35	0	72.25		FLOOR	
Aaron Hernday	00928	French door cabinet	Hernday Lab Cabinet 3	36	18.5	35	0	72.25		FLOOR	
Aaron Hernday	00916	Gel Imager	aplegen	13.5	12.25	21.5	6	24.5		BENCH TOP	
Aaron Hernday	00947	Heat impulse sealer	Heathrow	17.5	3		2	10.5	20.5	BENCH TOP	
Aaron Hernday	00945	Heater stir plate	Thermo Scientific	5.25	10		3	3.75		BENCH TOP	
Aaron Hernday	00917	Microwave	Panasonic	24	18	37.25	6	14		BENCH TOP	
Aaron Hernday	00943	NanoPhotometer	Implen	8	11.5		3	7		BENCH TOP	

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Aaron Hernday	00949	Nutating mixer fixed speed	fisher scientific	11.5	16.5		3	10.5		BENCH TOP	
Aaron Hernday	00950	Nutating mixer fixed speed	fisher scientific	11.5	16.5		3	10.5		BENCH TOP	
Aaron Hernday	00948	pH Meter	Hanna	8	10.5		3	22.5		BENCH TOP	
Aaron Hernday	00931	Red metal step can	Rubbermaid	16	17		0	31	45.5	FLOOR	
Aaron Hernday	00932	Red metal step can	Rubbermaid	16	17		0	31	45.5	FLOOR	
Aaron Hernday	00929	Refrigerated centrifuge	Eppendorf	11.25	18		0	9.75	20	BENCH TOP	Non-operational
Aaron Hernday	00944	Scale	Sartorius	8.5	12		3	3.75		BENCH TOP	
Aaron Hernday	00934	Shaking dry bath	Thermo Scientific	9.5	12.5		3	6.5		BENCH TOP	
Aaron Hernday	00918	Simpli Amp Thermalcycler	life tech	9.25	18		12	8.25	15.5	BENCH TOP	Location on wire rack
Aaron Hernday	00919	Simpli Amp Thermalcycler	life tech	9.25	18		12	8.25	15.5	BENCH TOP	Location on wire rack
Aaron Hernday	00920	Simpli Amp Thermalcycler	life tech	9.25	18		12	8.25	15.5	BENCH TOP	Location on wire rack
Aaron Hernday	00921	Simpli Amp Thermalcycler	life tech	9.25	18		12	8.25	15.5	BENCH TOP	Location on wire rack
Aaron Hernday	00922	Simpli Amp Thermalcycler	life tech	9.25	18		12	8.25	15.5	BENCH TOP	Location on wire rack
Aaron Hernday	00923	Simpli Amp Thermalcycler	life tech	9.25	18		12	8.25	15.5	BENCH TOP	Location on wire rack
Aaron Hernday	00946	Stir plate	Thermo Scientific	8.25	13.5		3	3.75		BENCH TOP	
Aaron Hernday	00907	Storage Rack	Seville	48	48	18	0	73		FLOOR	
Aaron Hernday	00924	Storage Rack	Seville	48	48	18	0	73		FLOOR	Rack for thermalcyclers
Aaron Hernday	00913	Table Top Centrifuge	ThermoFisher Scientific	29.25	26.5	28.5	6	14.5	36.5	BENCH TOP	
Aaron Hernday	00912	Water Bath	Thermo Scientific	28.75	15		2	13		BENCH TOP	
Anand Gadre	00486	Advantium2 tank regulator/switcher		12	6			12		wall mounted	
Anand Gadre	00481	Aria II table #1		52	33			31		floor	
Anand Gadre	00482	Aria II table #2		55	33			31		floor	
Anand Gadre	00462	Aria III table #1		68	36			34		floor	
Anand Gadre	00463	Aria III table #2		37	36			34		floor	
Anand Gadre	00489	Aria IIu SORP Sorter	BD Support	48	36	62		31	39	cart	

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Anand Gadre	00487	Aria IIu SORP table #1		37	36			34		floor	
Anand Gadre	00488	Aria IIu SORP table #2		68	36			34		floor	
Anand Gadre	00484	BD FACS Aria II Fluidics Cart	BD Support	32	22			26		under counter	
Anand Gadre	00490	BD FACS Aria II Fluidics Cart	BD Support	32	22			26		under counter	
Anand Gadre	00456	BD FACS Aria III	BD Support	48	32	56	10	28	42	cart	
Anand Gadre	00457	BD FACS Aria III Fluidics Cart	BD Support	32	22			26		under counter	
Anand Gadre	00483	BD FACS Aria IIu	BD Support	49	32	54	4	28	39	cart	
Anand Gadre	00480	BD LSR II Cytometer	BD Support	65	33			22	50	cart	
Anand Gadre	N/A	Air Compressor Package	Bio-Rad Laboratories	29	27			26		BENCH TOP	expected to arrive in April 2020 (new equipment purchase)
Anand Gadre	00459	Buffalo Filtration system		16	16			30		floor	
Anand Gadre	00458	Circulating water bath		9	19			23		floor	
Anand Gadre	00485	Circulating water bath		9	19			23		floor	
Anand Gadre	00494	Histocore Arcadia C		16	24		4	16		bench top	
Anand Gadre	00493	Histocore Arcadia H		22	24		4	16		bench top	
Anand Gadre	00465	Isotemp water bath		18	17			17	23	bench top	
Anand Gadre	00468	LabGard BioSafety Cabinet		54	35			93		floor	
Anand Gadre	00469	LabGard BioSafety Cabinet		54	35			93		floor	
Anand Gadre	00472	LabGard BioSafety Cabinet		54	35			93		floor	
Anand Gadre	00473	LabGard BioSafety Cabinet		54	35			93		floor	
Anand Gadre	00474	Legend RT Centrifuge		29	27			14	35	bench top	
Anand Gadre	00491	Lighted Tissue Bath		14	16			5		bench top	
Anand Gadre	00478	LSRII table #1		36	36			29		floor	
Anand Gadre	00479	LSRII table #2		66	32			29		floor	
Anand Gadre	00464	Nanopure water system		16	18	21		22		wall mounted	
Anand Gadre	00476	Nanopure water system		16	18	21		22		wall mounted	

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Anand Gadre	00466	Nikon Eclipse TS100 microsocpe		20	24			20		bench top	
Anand Gadre	00461	Precision oven		21	21	42	4	35		bench top	
Anand Gadre	00492	SM2010R microtome		20	18			15		bench top	
Anand Gadre	09229	Workstation, CPU, keyboard and 2 monitors									
Anand Gadre, David Gravano	00486	Advantium2 tank regulator/switcher	Concoa	12	6			12		WALL MOUNTED	
Anand Gadre, David Gravano	00481	Aria II table #1	NA	52	33			31		FLOOR	
Anand Gadre, David Gravano	00482	Aria II table #2	NA	55	33			31		FLOOR	
Anand Gadre, David Gravano	00462	Aria III table #1	NA	68	36			34		FLOOR	
Anand Gadre, David Gravano	00463	Aria III table #2	NA	37	36			34		FLOOR	
Anand Gadre, David Gravano	00489	Aria IIu SORP Sorter	BD Biosciences	48	36	62		31	39	CART	Alternate service provider Cytek biosciences (510) 4323758
Anand Gadre, David Gravano	00487	Aria IIu SORP table #1	NA	37	36			34		FLOOR	
Anand Gadre, David Gravano	00488	Aria IIu SORP table #2	NA	68	36			34		FLOOR	
Anand Gadre, David Gravano	00484	BD FACS Aria II Fluidics Cart	BD Biosciences	32	22			26		UNDER COUNTE	Alternate service provider Cytek biosciences (510) 4323758
Anand Gadre, David Gravano	00490	BD FACS Aria II Fluidics Cart	BD Biosciences	32	22			26		UNDER COUNTE	Alternate service provider Cytek biosciences (510) 4323758
Anand Gadre, David Gravano	00456	BD FACS Aria III	BD Biosciences	48	32	56	10	28	42	CART	Alternate service provider Cytek biosciences (510) 4323758
Anand Gadre, David Gravano	00457	BD FACS Aria III Fluidics Cart	BD Biosciences	32	22			26		UNDER COUNTE	Alternate service provider Cytek biosciences (510) 4323758
Anand Gadre, David Gravano	00483	BD FACS Aria IIu	BD Biosciences	49	32	54	4	28	39	CART	Alternate service provider Cytek biosciences (510) 4323758
Anand Gadre, David Gravano	00480	BD LSR II Cytometer	BD Biosciences	65	33			22	50	CART	Alternate service provider Cytek biosciences (510) 4323758
Anand Gadre, David Gravano	00459	Buffalo Filtration system	Buffalo Filter	16	16			30		FLOOR	
Anand Gadre, David Gravano	00458	Circulating water bath	Lauda	9	19			23		FLOOR	
Anand Gadre, David Gravano	00485	Circulating water bath	Lauda	9	19			23		FLOOR	
Anand Gadre, David Gravano	00496	CO2 regulators	unknown	24	6			24		WALL MOUNTED	
Anand Gadre, David Gravano	00495	Computer workstation	Action computers	12	24			24		BENCH TOP	
Anand Gadre, David Gravano	00494	Histocore Arcadia C	Leica	16	24		4	16		BENCH TOP	
Anand Gadre, David Gravano	00493	Histocore Arcadia H	Leica	22	24		4	16		BENCH TOP	

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Anand Gadre, David Gravano	00465	Isotemp water bath	Fisher Scientific	18	17			17	23	BENCH TOP	
Anand Gadre, David Gravano	00497	Lab Table	NA	48	30			36		FLOOR	
Anand Gadre, David Gravano	00498	Lab Table	NA	36	30			36		FLOOR	
Anand Gadre, David Gravano	00468	LabGard BioSafety Cabinet	Nuaire	54	35			93		FLOOR	
Anand Gadre, David Gravano	00469	LabGard BioSafety Cabinet	Nuaire	54	35			93		FLOOR	
Anand Gadre, David Gravano	00472	LabGard BioSafety Cabinet	Nuaire	54	35			93		FLOOR	
Anand Gadre, David Gravano	00473	LabGard BioSafety Cabinet	Nuaire	54	35			93		FLOOR	
Anand Gadre, David Gravano	00474	Legend RT Centrifuge	Sorvall	29	27			14	35	BENCH TOP	
Anand Gadre, David Gravano	00491	Lighted Tissue Bath	Premiere	14	16			5		BENCH TOP	
Anand Gadre, David Gravano	00478	LSRII table #1	NA	36	36			29		FLOOR	
Anand Gadre, David Gravano	00479	LSRII table #2	NA	66	32			29		FLOOR	
Anand Gadre, David Gravano	00464	Nanopure water system	Thermo Scientific	16	18	21		22		WALL MOUNTED	
Anand Gadre, David Gravano	00476	Nanopure water system	Thermo Scientific	16	18	21		22		WALL MOUNTED	
Anand Gadre, David Gravano	00466	Nikon Eclipse TS100 microsocpe	Nikon	20	24			20		BENCH TOP	
Anand Gadre, David Gravano	00461	Precision oven	Thermo Scientific	21	21	42	4	35		BENCH TOP	
Anand Gadre, David Gravano	00492	SM2010R microtome	Leica	20	18			15		BENCH TOP	
Anand Gadre, David Gravano	Not yet arrived	ZE5 flow cytometer	Bio-Rad	60	29			48		BENCH TOP	New instrument arriving in ~April
Anand Subramaniam	01806	Aerator trap flask	Grant-Bio	6.5	8	NA	2.5	13.5	NA	BENCH TOP	
Anand Subramaniam	01805	Okolab Air Heater	Thermo Scientific	8.5	8.5	NA	2	7	NA	BENCH TOP	
Anand Subramaniam	01823	Cabinet (left)	Branson	8	13.5	NA	5	9	NA	BENCH TOP	
Anand Subramaniam	00964	Computer - Confocal	HP	8	21		5	17.5		BENCH TOP	
Anand Subramaniam	00966	Computer - Image Editing	DELL	7	17.5		4	14.5		BENCH TOP	
Anand Subramaniam	00961	Computer - Plate reader	ThinkCentre	7	16		5	16.5		BENCH TOP	Includes: Monitor, keyboard, and mouse. Connected to Plate Reader (Item row 1, asset# 01801)
Anand Subramaniam	00962	Computer - Processing	(Unbranded)	9	20.5		5	18		BENCH TOP	
Anand Subramaniam	00963	Computer - Weaker	ThinkCentre	7	16		5	16.5		BENCH TOP	

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Anand Subramaniam	01816	Confocal - Peizo Drive	Zeiss	10	9		2	6		BENCH TOP	
Anand Subramaniam	01814	Confocal Joystick		5	8		2	5		BENCH TOP	
Anand Subramaniam	01812	Confocal microscope	Zeiss	20	26	NA	4	30.5	NA	BENCH TOP	
Anand Subramaniam	01815	Confocal power supply	Vero Power	10	9	NA	2	3.5		BENCH TOP	
Anand Subramaniam	01813	Confocal power unit		7	19.5		4	17	NA	BENCH TOP	
Anand Subramaniam	01808	Cutter	Silhouette	21	7	NA	2	5	10	BENCH TOP	
Anand Subramaniam	00969	Cutting Machine	Circut	21.5	5.5		11	6		BENCH TOP	
Anand Subramaniam	01828	Desiccator Cabinet	Fisherbrand	12.5	15	27	0	12.5		BENCH TOP	
Anand Subramaniam	00968	Heat Stamp	FDS	15	24		0	30		BENCH TOP	
Anand Subramaniam	01811	Heating stage controller	Linkam scientific	9.5	14.5	NA	3	7	NA	BENCH TOP	
Anand Subramaniam	01827	Hot Plate (080)		8	12.5		3	5		BENCH TOP	
Anand Subramaniam	01830	Hot plate small	Fisher Scientific	5.5	9.5		3	4		BENCH TOP	
Anand Subramaniam	01804	Hotplate	Fisher Scientific	8	12.5	NA	4	4.5	NA	BENCH TOP	
Anand Subramaniam	01818	Isotemp Oven	Fisher Sci.	24	23.5	47	5	26.5		BENCH TOP	
Anand Subramaniam	00975	Light Illuminator	Fisher Scientific	22	4			14		BENCH TOP	
Anand Subramaniam	00974	Mercury lamp.	LEj	5.5	11.5			8		BENCH TOP	
Anand Subramaniam	00971	Metal Drawers		15	23.5	36	0	27		FLOOR	
Anand Subramaniam	01824	Microcentrifuge	ThermoFisher Sci.	8.5	14.4	NA	3	9	17	BENCH TOP	
Anand Subramaniam	00980	Micropiptte puller system	Sutter Instruments Co.	30	16			14		BENCH TOP	
Anand Subramaniam	00953	Micro-scale	Mettler Toledo	9.5	17			12		BENCH TOP	
Anand Subramaniam	00973	Microscope - Axio (brightfield)	Zeiss	18	30			30		BENCH TOP	
Anand Subramaniam	01825	Old Digital Sonifier (Storage)	Branson	7	17		4	10		FLOOR	
Anand Subramaniam	01802	Osmometer	Advanced Instruments, In	16	12.5	NA	4	11.5	NA	BENCH TOP	
Anand Subramaniam	00970	Paper slicer	Premier	14.5	24		0	6.5	19.5	BENCH TOP	
Anand Subramaniam	00955	PDMS Vacuum Chamber	Bel-Art	12.5	10.5		0	12		BENCH TOP	

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Anand Subramaniam	01826	pH Meter	Sper Scientific	8.5	6.5		3	2.5		BENCH TOP	
Anand Subramaniam	01820	Plasma Cleaner	Harrick Plasma	18	9.5	17	6	11	NA	BENCH TOP	
Anand Subramaniam	01801	Plate reader	Molecular Devices	22.5	15	NA	5	8.6	13.5	BENCH TOP	
Anand Subramaniam	01809	Printer (active use)	Brother	13.5	14	21	2	7		BENCH TOP	
Anand Subramaniam	00978	Printer Canon (in Storage)	Canon	19	15			8.5		Cabinet	
Anand Subramaniam	00979	Printer HP (in Storage)	HP	17.5	12			7		Cabinet	
Anand Subramaniam	01821	Pump for Plasma Cleaner	Dekker	13.5	6	NA	4	15		FLOOR	
Anand Subramaniam	00956	Scale for PDMS	Satorius	8.5	11		3	4		BENCH TOP	
Anand Subramaniam	00954	Silanes Vacuum Chamber	Bel-Art	12.5	10.5		0	12		BENCH TOP	
Anand Subramaniam	00976	Small Hotplate		8.5	13			4		BENCH TOP	
Anand Subramaniam	01822	Sonifier sound enclosure	Branson	17	12	27	4	26.5	NA	BENCH TOP	
Anand Subramaniam	00957	Storage Drawers (Plastic)		12	14	28	0	24		FLOOR	
Anand Subramaniam	01807	Syringe pump	Harvard Apparatus	11	9	NA	3.5	5	NA	BENCH TOP	
Anand Subramaniam	00951	Tube Rotator	Thermo Scientific	7.5	10		0	9.5		BENCH TOP	
Anand Subramaniam	00959	Ultrasonic Bath	Fisher Scientific	9.5	12		3	13		BENCH TOP	
Anand Subramaniam	01803	UPS - Plate reader	APC	4.5	15	NA	4	12	NA	BENCH TOP	
Anand Subramaniam	00960	Vacuum Chamber - Large (lipids 2)	Bel-Art	12.5	10.5		0	12		BENCH TOP	
Anand Subramaniam	00958	Vacuum Chamber(lipids) Small	Bel-Art	9.5	7		0	8.5		BENCH TOP	
Anand Subramaniam	00952	Vortex Mixer	Thermo Scientific	5.5	8		2	3.5		BENCH TOP	
Anand Subramaniam	01810	Water pump (for heating stage)	Ehiem	9	9	NA	2	16.5	NA	BENCH TOP	
Anand Subramaniam	01829	Waveform generator	Agilent	9.5	15		2	8		BENCH TOP	
Anand Subramaniam	00967	Wax Printer		16	20.5			14.5		BENCH TOP	
Andrea Joyce	UCM BSP 01001	item ucm bsp 01001small centrifuge legend item 1		14 inch deep, 9 inch wide, 9 inch tall							
Andrea Joyce	UCM BSP 01002	item ucm bsp 01002 big centrifuge, beckman coulter		22 deep, 18 wide, 14 tall							
Andrea Joyce	UCM BSP 01003	item ucm bsp 01003 pcrs items 3		18 inch deep, 10 wide, 10 tall							

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Andrea Joyce	UCM BSP 01004	item ucm bsp 01004 pcr items 4		18 inch deep, 10 wide, 10 tall							
Andrea Joyce	UCM BSP 01005	item ucm bsp 01005pcrs items 5		18 inch deep, 10 wide, 10 tall							
Andrea Joyce	UCM BSP 01006	item ucm bsp 01006pcrs items 6		18 inch deep, 10 wide, 10 tall							
Andrea Joyce	UCM BSP 01007	item ucm bsp 01007 vacufuge item 7		22 deep, 13 high, 12 wide							
Andrea Joyce	ucm bsp 01008	item ucm bsp 01008 qPCR item 8		19 deep, 14 tall, 10 wide							
Andrea Joyce	ucm bsp 01009	item ucm bsp 01009 metal cabinet item 9		72 inch tall, 36 inch wide, 18 inch deep							
Andrea Joyce	ucm bsp 01010	item ucm bsp 01010 metal cabinet item 10		72 inch tall, 36 inch wide, 18 inch deep							
Andrea Joyce	ucm bsp 01011	item ucm bsp 01011 pcr cabinet esco item 11		70 tall, 28 inch deep, 41 inch wide							
Andrea Joyce	ucm bsp 01012	item ucm bsp 01012 biosafety cabinet item 12		8ft tall, 32 inch deep, 52 inch wide							
Andrea Joyce	ucm bsp 01014	item ucm bsp 01014 ramp test machine item 14		ramp 12 wide,12 deep,7 tall							
Andrea Joyce	ucm bsp 01015	item ucm bsp 01015 centrifuge in biosafety hood item 15		micrfuge is 10 deep, 9 wide,8 tall							
Andrea Joyce	ucm bsp 01021	item ucm bsp 01021 microscope		16 tall x15 deep x10wide							
Andrea Joyce	ucm bsp 01022	item ucm bsp 01022 microscope light		15 deep, 8 tall, 6 wide							
Andrea Joyce	ucm bsp 01023	item ucm bsp 01023 microscope light		15 deep, 8 tall, 6 wide							
Andrea Joyce	ucm bsp 01024	item ucm bsp 01024 tall red chair		24 wide, 24 deep, 48 high							
Andrea Joyce	ucm bsp 01025	item ucm bsp 01025 metal cart 3 shelves		40 high x 17 deep x 27 wide							
Andrea Joyce	ucm bsp 01026	item ucm bsp 01026 plastic black cart		25 wide x 44 longx 39 high							
Andrea Joyce	ucm bsp 01027	item ucm bsp 01027 metal tall back chair		36 high x 16 wide x 16 wide							
Andrea Joyce	ucm bsp 01028	item ucm bsp 01028 metal stool		25 tall x 24 wide x 24 deep							
Andrea Joyce	ucm bsp 01029	item ucm bsp 01029 small white fridge		17 tall x 17 wide x 17 deep							
Andrea Joyce	ucm bsp 01030	item ucm bsp 01030 plastic folding table		48 long x 24 wide x 30 tall							
Andrea Joyce	ucm bsp 01031	item ucm bsp 01031 plastic folding table		48 long x 24 wide x 30 tall							
Andrea Joyce	ucm bsp 01032	item ucm bsp 01032 small black fridge		26 tall x 20 wide x 20 deep							
Andrea Joyce	ucm bsp 01033	item ucm bsp 01033 small black fridge		33 tall x23 wide x23 deep							
Andrea Joyce	ucm bsp 01034	item ucm bsp 01034 plastic folding table		48 long x 24 wide x 30 tall							

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Andrea Joyce	ucm bsp 01035	item ucm bsp 01035 green metal shelf w 3 shelves		64 tall x 28 wide x 20 deep							
Andrea Joyce	ucm bsp 01036	item ucm bsp 01036 metal shelf w bug cages		74 tall x 48 wide x 20 inch deep							
Andrea Joyce	ucm bsp 01037	item ucm bsp 01037 metal shelf w bug cages		54 high x 36 wide x 16 deep							
Andrea Joyce	ucm bsp 01038	item ucm bsp 01038 plastic folding table		48 long x 24 wide x 30 tall							
Andrea Joyce	ucm bsp 01039	item ucm bsp 01039 black tool cart		36 long x 36 tall x 16 wide							
Andrea Joyce	ucm bsp 01040	item ucm bsp 01040 black tool cart w wheelstable top		40 wide x 40 tall x 20 deep							
Andrea Joyce	ucm bsp 01041	item ucm bsp 01041 woodmetal table for wind tunnel		24 wide x 28 high x 60 inch long							
Andrea Joyce	ucm bsp 01042	item ucm bsp 01042 plastic table for wind tunnel		48 long x 24 wide x 30 tall							
Andrea Joyce	ucm bsp 01043	item ucm bsp 01043 plastic table		48 long x 24 wide x 30 tall							
Andrea Joyce	ucm bsp 01044	item ucm bsp 01044 black verticle heater		30 tall x 10 wide x 10 deep							
Andrea Joyce	ucm bsp 01045	item ucm bsp 01045 black hp p1102w printer		14 wide x 14 deep x 8 tall							
Andrea Joyce	ucm bsp 01046	item ucm bsp 01046 minicentrifuge vwr for strips		7 wide x 7 deep x 6 tall							
Andrea Joyce	ucm bsp 01047	item ucm bsp 01047 minicentrifuge vwr for tubes		7 wide x 7 deep x 6 tall							
Andrea Joyce	ucm bsp 01048	item ucm bsp 01048 microwave		17 wide x 14 deep x 10 high							
Andrea Joyce	ucm bsp 01049	item ucm bsp 01049 carolina power amp for gels		8 deep x 6 wide across and 4 tall							
Andrea Joyce	ucm bsp 01050	item ucm bsp 01050 silver metal standing lamp 3 lights		68 tall x 16 wide x 16 deep							
Andrea Joyce	ucm bsp 02350	item ucm bsp 02350 plastic gel box		8 deep x 6 wide across and 4 tall							
Andrea Joyce	ucm bsp 02351	item ucm bsp 02351 hot plate for microtubes in hood		8 wide x 12 deep x 4 high							
Andrea Joyce	ucm bsp 02352	item ucm bsp 02352 small hot plate for tubes in hood		6 inch tall x 6 inch deep x 5 inch wide							
Andrea Joyce	ucm bsp 02353	item ucm bsp 02353 vortex under pcr hood		8 tall x 8 deep x 6 wide							
Andrea Joyce	ucm bsp 02354	item ucm bsp 02354 uv gel visualization photo phoresis		12 wide x 8 deep x 6 inch tall							
Andrea Joyce	ucm bsp 02355	item ucm bsp 02355 fotodyne hood cover for uv gel		12 inch tall x 6 inch wide x 6 inch deep							
Andrea Joyce	ucm bsp 02356	item ucm bsp 02356 printer for gel		15 wide x 12 deep x 9 tall							
Andrea Joyce	ucm bsp 02357	item ucm bsp 02357 vortex under biosafety hood		8 tall x 8 deep x 6 wide							
Andrea Joyce	ucm bsp 01013	ucm bsp 01013 wind tunnel item 13		plastic box 25 wide, 25 tall, 53 long, exhaust 25 wide, 25 tall, 6 ft long							

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Anna E. Beaudin	01146	3D Platform Rotator	Fisher Scientific	11	16		2	10	10	BENCH TOP	
Anna E. Beaudin	01136	a	ThermoFisher Scientific	10	18		2	9	16	BENCH TOP	
Anna E. Beaudin	01147	Analytical Balance	Mettler Toledo	13	8		2	13	13	BENCH TOP	
Anna E. Beaudin	01127	Biological Safety Cabinet 1300 Series A2	ThermoFisher	54	28			96		FLOOR	
Anna E. Beaudin	01128	Vacuum Manifold	Atosa	54	30	58	6	84	84	FLOOR	
Anna E. Beaudin	01149	Centrifuge 5424	Eppendorf	10	9		1	9	20	BENCH TOP	
Anna E. Beaudin	01148	Centrifuge 5424R	Eppendorf	11	16		2	10	24	BENCH TOP	
Anna E. Beaudin	01150	Centrifuge 5810R	Eppendorf	27	22		2	10	32	BENCH TOP	
Anna E. Beaudin	01134	Chemical Cabinet	JustRite	44	18	34	0	18	18	FLOOR	
Anna E. Beaudin	01135	Digital Dry Bath	Fisher Scientific	8	14		2	4	14	BENCH TOP	
Anna E. Beaudin	01141	Dissecting Scope	Olympus	11	15		2	23	23	BENCH TOP	
Anna E. Beaudin	01109	Erlenmeyer Vacuum Flask	VWR	6	6		0	15	15	BENCH TOP	
Anna E. Beaudin	01108	Erlenmeyer Vacuum Flask	VWR		6		0	15	15	BENCH TOP	
Anna E. Beaudin	01107	Erlenmeyer Vacuum Flask	VWR		6		0	15	15	BENCH TOP	
Anna E. Beaudin	01106	Erlenmeyer Vacuum Flask	VWR		6		0	15	15	BENCH TOP	
Anna E. Beaudin	01105	Erlenmeyer Vacuum Flask	VWR		6		0	15	15	BENCH TOP	
Anna E. Beaudin	01144	Gel Electrophresis Power Supply	CBS Scientific	8	13		2	4	4	BENCH TOP	
Anna E. Beaudin	01132	Hallway Closed File Cabinet	Sandusky	36	25	45	0	78	78	FLOOR	
Anna E. Beaudin	01131	Hallway Open File Cabinet	Steelcase	30	16	0	0	82	82	FLOOR	
Anna E. Beaudin	01145	Hot Plate	VWR	10	13		2	5	5	BENCH TOP	
Anna E. Beaudin	01140	Hot Water Bath	VWR	15	16		2	16	22	BENCH TOP	
Anna E. Beaudin	01142	Flammable Cabinet	Apple	26	8		2	21	21	BENCH TOP	
Anna E. Beaudin	01139	Light Microscope	Omax	6	7		2	14	14	BENCH TOP	
Anna E. Beaudin	01130	Low-Temperature Freezer	VWR	37.2	35.4	62	2	77.9	77.9	FLOOR	Biohazardous and radioactive
Anna E. Beaudin	01124	Mini centrifuge	VWR	7	6.5			4	10.5	BENCH TOP	

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Anna E. Beaudin	01122	Mini centrifuge	VWR	7	6.5			4	10.5	BENCH TOP	
Anna E. Beaudin	01123	Mini centrifuge	VWR	7	6.5			4	10.5	BENCH TOP	
Anna E. Beaudin	01143	QuantStudio 6 Flex	ThermoFisher Scientific	19	25		2	29	29	BENCH TOP	
Anna E. Beaudin	01110	QuantStudio 6 Flex Laptop	Dell	15	10		2	1	11	BENCH TOP	Confirm manufacturer involvement
Anna E. Beaudin	01133	Sink File Cabinet	Steelcase	30	15		0	65	65	FLOOR	
Anna E. Beaudin	01138	Thermal cycler	ThermoFisher Scientific	10	18		2	9	16	BENCH TOP	
Anna E. Beaudin	01137	Thermal cycler	ThermoFisher Scientific	10	18		2	9	16	BENCH TOP	16
Anna E. Beaudin	01137	Thermal cycler	ThermoFisher Scientific	10	18		2	9	16	BENCH TOP	
Anna E. Beaudin	01129	Upright Freezer	Kenmore	35	31	65	6	72	72	FLOOR	Antibodies, etc.
Anna E. Beaudin	01114	Vortex Genie 2	Scientific Industries	5	7			7		BENCH TOP	
Anna E. Beaudin	01119	Vortexer	VWR	5.5	8			6		BENCH TOP	
Anna E. Beaudin	01115	Vortexer	VWR	5.5	8			6		BENCH TOP	
Anna E. Beaudin	01116	Vortexer	VWR	5.5	8			6		BENCH TOP	
Anna E. Beaudin	01118	Vortexer	VWR	5.5	8			6		BENCH TOP	
Anna E. Beaudin	01120	Vortexer	VWR	5.5	8			6		BENCH TOP	
Anna E. Beaudin	01121	Vortexer	VWR	5.5	8			6		BENCH TOP	
Arvind Gopinath	119	OHAUS EQUIPMENT	OHAUS	9	13	13	6	13 8/16	13 8/16	BENCH TOP	
Arvind Gopinath		Autoclave	Tuttnauer								208V Outlet required to be attached to a buck/boost transformer to get from 208V to 230V
Arvind Gopinath	109	Camera Equip	Zeiss	10	8 11/16	8 11/16	8 11/16	4	4	BENCH TOP	Attached to 101
Arvind Gopinath	117	Computer	HP	7 8/16	22 10/16	22 10/16	6	17 8/16	17 8/16	FLOOR	
Arvind Gopinath	146	Computer Monior + Keyboard & Mouse	Dell	21 4/12	6	6	12 6/12	16 8/12	16 8/12	BENCH TOP	Attached to #147
Arvind Gopinath	123	COMPUTER MONITOR	ASUS	28 13/16	9 9/16	9 9/16	6	24 7/16	24 7/16	BENCH TOP	
Arvind Gopinath	145	COMPUTER TOWER	DELL	7 2/16	13 5/12	13 5/12	7 8/12	15 6/12	15 6/12	FLOOR	
Arvind Gopinath	147	Computer Tower	Dell	7 2/16	13 5/12	13 5/12	7 8/12	15 6/12	15 6/12	FLOOR	Attached to #146
Arvind Gopinath	143	COMPUTER TOWER	HP	7 10/16	20 10/16	20 10/16	6	17 8/16	17 8/16	FLOOR	

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Arvind Gopinath	148	Fluorescent Lamp	Lumen Dynamics	7 3/16	14	14	5.9	7 14/16	7 14/16	BENCH TOP	Attached to #150
Arvind Gopinath	112	Laser Table	Newport	59 8/16	96	96	0	34 10/16	34 10/16	FLOOR	Large, heavy laser table for microscope mounting
Arvind Gopinath	122	LIGHT TABLE	JUNLON	26 13/16	19 12/16	19 12/16		10/16	10/16	BENCH TOP	
Arvind Gopinath	125	MAGNETIC STIRRER	THERMO SCIENTIFIC	10	13 8/16	13 8/16	6	2 8/16	2 8/16	BENCH TOP	
Arvind Gopinath	140	MAGNETIC STIRRER	THERMO SCIENTIFIC	10	13 8/16	13 8/16	6	2 8/16	2 8/16	BENCH TOP	
Arvind Gopinath	121	MICROSCOPE	AMSCOPE	10 5/16	23	23	6	20 15/16	20 15/16	BENCH TOP	
Arvind Gopinath	108	Microscope	Nikon	9 12/16	13 10/16	13 10/16	13 10/16	19 10/16	19 10/16	BENCH TOP	Older microscope, unknown info
Arvind Gopinath	101	Microscope	Zeiss	12 8/16	21 12/16	21 12/16	8	25 4/16	25 4/16	BENCH TOP	Attached to #102 (lamp) and #103, #104 (Computer + Peripherals)
Arvind Gopinath	107	Microscope	Zeiss	24	24	24	24	21 8/16	21 8/16	BENCH TOP	Older microscope, unknown info
Arvind Gopinath	120	MICROSCOPE	ZEISS	9	12 3/16	12 3/16	6	16 9/16	16 9/16	BENCH TOP	
Arvind Gopinath	115	Microscope		32	33	33	0	19	19	BENCH TOP	No manufacturer markings
Arvind Gopinath	103	Microscope Computer	HP	6 12/16	17 7/16	17 7/16	6	15 14/16	15 14/16	FLOOR	Attached to 101
Arvind Gopinath	102	Microscope Lamp	Lumen Dynamics	5 8/16	13 7/16	13 7/16	7 8/16	7 8/16	7 8/16	BENCH TOP	Attached to #101 (microscope) and #102 (Lamp, #104 monitor + peripherals)
Arvind Gopinath	114	Microwave	Toshiba	20 6/16	14 10/16	31	6	13	13	BENCH TOP	
Arvind Gopinath	141	MICROWAVE	TOSHIBA	20 5/16	14 7/16	29 13/16	6	14 7/16	14 7/16	BENCH TOP	
Arvind Gopinath	118	MONITOR + PERIPHERALS	DELL	19	7 5/16	7 5/16	5	15	15	BENCH TOP	
Arvind Gopinath	142	MONITOR + PERIPHERALS	DELL	20 3/16	6 10/16	6 10/16	6	15 9/16	15 9/16	BENCH TOP	
Arvind Gopinath	144	MONITOR + PERIPHERALS	DELL	21 3/16	6	6	6	16 9/16	16 9/16	BENCH TOP	
Arvind Gopinath	104	Monitor + Peripherals	HP	22	15	15	15	20	20	BENCH TOP	Attached to 103
Arvind Gopinath	149	Power Supply	Zeiss	8 12/16	8 12/16	8 12/16	7 8/16	4	4	BENCH TOP	Attached to #150
Arvind Gopinath	116	Printer	Brother	14	15	20	6	9 4/16	9 4/16	BENCH TOP	
Arvind Gopinath	124	SHAKER	STOVALL	14 4/16	14 13/16	14 13/16	6	9 8/16	9 8/16	BENCH TOP	
Arvind Gopinath	113	Ultrasonic Bath	Fisher	9 8/16	11 8/16	11 8/16	11 8/16	12	12	BENCH TOP	
Arvind Gopinath	105	Workstation Computer	HP	7	18 5/16	18 5/16	6	18	18	FLOOR	Attached to 106
Arvind Gopinath	106	Workstation Computer Peripherals	HP	22	15	15	15	20	20	BENCH TOP	Attached to 105

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Arvind Gopinath	150	Zeiss Axiovert 200 Microscope	Zeiss	11	26	26	6 8/16	28 8/16	25 8/16	BENCH TOP	Attached to #149 and #148
Bin Liu	2365	3D printer	Wiiboox	11	9	13	17	15	26	BENCH TOP	
Bin Liu	1210	Across International Vacuum Oven	Across International	24	20	37	8	19.5	19.5	BENCH TOP	
Bin Liu	1214	Across International Vacuum Pump	Across International	6	13.5	13.5	12	14.5	14.5	BENCH TOP	
Bin Liu	1242	Advanced Rheometer	TA Instruments Ltd.	12	15	15	12	27	27	BENCH TOP	
Bin Liu	1209	Amscope	Amscope	8.5	32	32	2	17.5	17.5	BENCH TOP	
Bin Liu	1207	Benchmark Hotplate Stirree	Benchmark	8	12	12	9	4.5	4.5	BENCH TOP	
Bin Liu	1203	Canon PRO-100 Printer	Canon	28	16	23	6	9	15	BENCH TOP	Needs access to maximum gigabit ethernet port
Bin Liu	1233	Component storage	Chatsworth Storage	21	16	16	1	84	84	FLOOR	Needs to be secured to the floor
Bin Liu	1226	Computer cart	N/A	28	19	19	N/A	37	37	FLOOR	
Bin Liu	1228	Computer cart	Luxor	25	19	19	N/A	42	42	FLOOR	Needs to be movable around the lab with power
Bin Liu	1230	Computer cart	N/A	29.5	24	31	N/A	41	41	FLOOR	
Bin Liu	1232	Computer cart	Luxor	25	19	19	N/A	42	42	FLOOR	Needs to be movable around the lab with power
Bin Liu	2367	Digital piezo controller	PI	7.5	13.5	13.5	N/A	5	5	BENCH TOP	
Bin Liu	1221	Elveflow Pressure Controller OB1 Mk3	Elveflow	9	11	11	9	3.5	3.5	BENCH TOP	
Bin Liu	1222	Elveflow Pressure Controller OB1 Mk3	Elveflow	9	11	11	9	3.5	3.5	BENCH TOP	
Bin Liu	1201	eppendorf Centrifuge 5424	eppendorf	10	13	13	7	8.5	18	BENCH TOP	
Bin Liu	1236	Equipment cart	N/A	25.5	33	33	4	37	37	FLOOR	
Bin Liu	1211	Fisher Scientific accuSpin 24C Clinical Centrifuge	Fisher Scientific	14.5	20	20	10	13	29	BENCH TOP	
Bin Liu	1213	Fisher Scientific Ultrasonic Bath 1.9L	Fisher Scientific	10	12	12	13	13	13	BENCH TOP	
Bin Liu	1216	Harrick Plasma Plasma Cleaner PDC-001-HP	Harrick Plasma	18	16	18	17	11.5	11.5	BENCH TOP	
Bin Liu	1215	Harrick Plasma Plasmaflo	Harrick Plasma	10.5	12	12	17	8.5	8.5	BENCH TOP	
Bin Liu	1224	Harvard Apparatus syringe pump	Harvard Apparatus	13	15	15	N/A	7.5	7.5	BENCH TOP	
Bin Liu	1205	Heidolph vortexer	Heidolph	6	8	8	5	6	6	BENCH TOP	
Bin Liu	1225	Mac computer	Apple	22	8	8	N/A	18	18	CART	Needs to be movable on its cart around the lab with power

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Bin Liu	1229	Mac computer	Apple	26	8.5	8.5	N/A	20.5	20.5	CART	Needs to be movable on its cart around the lab with power
Bin Liu	1208	Mettler Toledo SevenCompact	Mettler Toledo	12	14	14	6	14	18	BENCH TOP	
Bin Liu	1206	Mettler Toledo XS204 DeltaRange	Mettler Toledo	10.5	18	18	3	13	13	BENCH TOP	
Bin Liu	1238	New Brunswick Galaxy 170 S	eppendorf	27	27	51	5	33.5	33.5	FLOOR	Wet lab
Bin Liu	1235	New Brunswick Scientific Excella E24 Incubator Shaker Se	eppendorf	23	31	31	5	24	40	CART	
Bin Liu	1239	New Brunswick U140 Premium	eppendorf	32	34	62	1	76	76	FLOOR	Wet lab
Bin Liu	1241	Newport Integrity 3 VCS	Newport	48	72	72	N/A	37	37	FLOOR	Destination: MUVI room
Bin Liu	1241	Newport Integrity 3 VCS	Newport	48	72	72	N/A	37	37	FLOOR	Destination: MUVI room
Bin Liu	1240	Newport Research Corporation optical table	Newport Research Corpo	48	96	96	N/A	36	36	FLOOR	Wet lab. Temperature variance down to -20 for a limited Amon of time ok. Specimen catalogue needs to be kept
Bin Liu	1223	Nikon Eclipse 50i with automated stage	Nikon	17	24	24	9	28.5	28.5	BENCH TOP	
Bin Liu	1219	Nikon Eclipse Ti with automated stage	Nikon	12	27	27	1	27	27	BENCH TOP	
Bin Liu	1220	Nikon Eclipse Ti with enviornmental control	Nikon	32	24	27	5	28	28	BENCH TOP	
Bin Liu	1217	Nitrogen gas cylinder	Praxair	10	10	10	5	61	61	FLOOR	Needs to be chained to the wall at 2 different heights
Bin Liu	1227	PC computer	N/A	18.5	17	17	N/A	8.5	8.5	CART	Needs access to maximum gigabit ethernet port and needs to be movable on its cart around the lab
Bin Liu	1231	PC computer	N/A	19	18	18	N/A	14	14	CART	Needs access to maximum gigabit ethernet port and needs to be movable on its cart around the lab
Bin Liu	1243	PC computer	N/A	8.5	20	20	N/A	20	20	FLOOR	
Bin Liu	1218	RobinAir VacuMaster	RobinAir	6	14	14	3	10	10	FLOOR	
Bin Liu	1212	Thermo Scientific BioMate 3S	Thermo Scientific	13.5	19	19	10	8.5	16	BENCH TOP	
Bin Liu	1204	Thermo Scientific Cimarec Hot plate	Thermo Scientific	9	13	13	14	5	5	BENCH TOP	
Bin Liu	1202	Ultimaker 3 3D Printer	Ultimaker	13.5	20	20	8	15.5	15.5	BENCH TOP	Needs access to maximum gigabit ethernet port
Bin Liu	2366	Ultraviolet oven	N/A	7.5	7.5	12	19	10.5	10.5	BENCH TOP	
Bin Liu	1234	Waterloo tool chest	Waterloo	27	19	35	1	57	66	FLOOR	
Changquing Li	00404	3d printer 1	Photon	9	9	14		16	25.5	BENCH TOP	
Changquing Li	00405	3d printer 2	MakerBot	19.5	13	24		15		BENCH TOP	
Changquing Li	00424	3d printer 3	Creality	18	18			28		BENCH TOP	

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Changquing Li	01988	Air compressor	HDX	13	13			14.5		BENCH TOP	
Changquing Li	00420	big optic table	Thor labs	72	36			36			
Changquing Li	00450	centrifuge	spinplus	12	14			9		BENCH TOP	
Changquing Li	00415	chem table	global	48	30			32			
Changquing Li	00407	empty cabinet 1		30	17	46		38		BENCH TOP	
Changquing Li	00434	epson scanner	Epson	25	18			8	24	BENCH TOP	
Changquing Li	00439	equipment table	Global	48	24			34			
Changquing Li	00419	FMT box with table	Technological Manufactu	48	24			56			
Changquing Li	01990	FXLT		33.9	47			70		FLOOR	
Changquing Li	00403	lab table	Global	60	30			32.5			
Changquing Li	00416	lead bricks		25	15			9		FLOOR	
Changquing Li	00449	metal cart		24	39			32.5			
Changquing Li	00418	metal shelf 1		60	18			75			
Changquing Li	00435	metal shelf 2		42	15			40			
Changquing Li	01989	microbalance	Sartorius	9	13	18		10.5		BENCH TOP	
Changquing Li	00410	microCT bench	Global	48	24			34.5			
Changquing Li	00409	microCT cabinet	TP shielding	39	27	46		36.5		BENCH TOP	
Changquing Li	00411	microCT cooling system 1	Julaba	17	9.5			25		FLOOR	
Changquing Li	2000	microPET scanner	Concorde Microsystems	27	51			58		FLOOR	
Changquing Li	00413	microwave	Hamilton beach	21	15	31		12		BENCH TOP	
Changquing Li	01984	microwave	Sunbeam	18	12	25		10.5		BENCH TOP	
Changquing Li	01986	Optical kit	Thorlabs	17	11	21		11			
Changquing Li	00402	optical table	Thor labs	47	35			33			
Changquing Li	00440	optical table 2	Thor labs	48	30			2.5			
Changquing Li	00444	PC	Dell	7.5	17			18		BENCH TOP	

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Changquing Li	00447	PC 2	hp	7	14.5			14.5		BENCH TOP	
Changquing Li	00448	PC3	dell	7	16.5			16.5		BENCH TOP	
Changquing Li	01983	ph meter	apera	6.5	8.5			3.5		BENCH TOP	
Changquing Li	00433	printer	HP	17	16			12.5		BENCH TOP	
Changquing Li	00421	pulsed x-ray	Golden Engineering Inc.	21	20			9		BENCH TOP	
Changquing Li	00425	server 1	Supermicro	7	26			17		FLOOR	
Changquing Li	00431	server 2	Thor	10	23			24		FLOOR	
Changquing Li	00432	server 3	Supermicro	7	26			17		FLOOR	
Changquing Li	00417	sonicator	Branson	13.5	12			14		BENCH TOP	
Changquing Li	01987	spectrometer	Barnstead international	16	11			6		BENCH TOP	
Changquing Li	00441	table 1	Global	24	48			32.5			
Changquing Li	00442	table 2	global	24	48			32.5			
Changquing Li	00443	table 3	global	24	48			32.5			
Changquing Li	00437	tdxlct table	Global	48	30			36			
Changquing Li	00406	tool cabinet 1	Homak	36	18	31		56			
Changquing Li	00408	tool cabinet 2	Homak	36	18	31		56			
Changquing Li	00438	tool cabinet 3	Homak	36	18			56			
Changquing Li	00446	tool cabinet 4	Homak	36	18	31		56			
Changquing Li	00422	UltraSound 1	Pioneer Solution	10	17			3.5		BENCH TOP	
Changquing Li	00423	UltraSound 2	JSR Ultrasonics	8.5	13			4		BENCH TOP	
Changquing Li	01981	vacuum chamber	GAST	11	9			11		BENCH TOP	
Changquing Li	01982	vacuum pump	GAST	5.5	9			11		BENCH TOP	
Changquing Li	01985	water tank		14.5	9			15			
Changquing Li	00427	xlct bench 1	global	30	60			32			
Changquing Li	00428	xlct bench 2	global	30	60			32			

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Changquing Li	00429	xlct cabinet divider	TP shielding	1	30.5			34			
Changquing Li	00412	xlct cooling system	poly science	8	17			23		FLOOR	
Changquing Li	00430	xlct optical table	Thor labs	48	30			3			
Changquing Li	00401	X-ray glass box	Dexco	53	18.5			32		BENCH TOP	
Chih-Wen Ni	00385	PCR Station (3-channel)	Applied Biosystems	13 in	22 in	24 in	5 in	10.75 in	20.75 in	BENCH TOP	
Chih-Wen Ni	00384	PCR Station (small) 1	Applied Biosystems	9.5 in	17.25 in	17.25 in	5 in	8.25 in	18.25 in	BENCH TOP	
Chih-Wen Ni	00383	PCR Station (small) 2	Applied Biosystems							BENCH TOP	
Chih-Wen Ni	00391	MicroPulser	Bio-RAD	8 in	14.5 in	14.5 in	6 in	5.5 in	5.5 in	BENCH TOP	
Chih-Wen Ni	00363	Air Compressor Package	Condor / Werther Internal	13.5 in	14 in	14 in	14 in	13.5 in	13.5 in	FLOOR	Part of air table (3/3)
Chih-Wen Ni	00378	PC Desktop (Monitor + Motherboard + Keyboard + Mouse)	HP	20 in	22 in	22 in	5 in	22 in	22 in	BENCH TOP	
Chih-Wen Ni	00359	PC Desktop (Monitor + Keyboard + Mouse)	HP	22 in	22 in	22in	5 in	22 in	22 in	Desk	
Chih-Wen Ni	00361	PC Desktop (Monitor+Mouse+Keyboard)	HP	9 in	21 in	21 in	5 in	18 in	18 in	FLOOR	
Chih-Wen Ni	00392	Belly Dancer	IBI Scientific	15 in	15 in	15 in	6 in	14.25 in	14.25 in	BENCH TOP	
Chih-Wen Ni	00387	Flammable Cabinet	JUSTRITE	24 in	18 in	38.5 in	6 in	36 in	36 in	UNDER COUNTER	
Chih-Wen Ni	00367	Leica DMi8 Confocal	LEICA	26 in	33 in	33 in	8 in	32 in	32 in	Airtable	Part of confocal (1/4)
Chih-Wen Ni	00362	Leica Scanning Power Unit	LEICA	15 in	19.5 in	19.5 in	20 in	48.5 in	48.5 in	FLOOR	Part of confocal (2/4)
Chih-Wen Ni	00380	Stereo Microscope	LEICA	8 in	12 in	12 in	5 in	18 in	18 in	BENCH TOP	
Chih-Wen Ni	00379	Contrast Microscope	LEICA	14 in	20 in	20 in	5 in	20 in	20 in	BENCH TOP	Manufacturer Coordination
Chih-Wen Ni	00360	Leica M165 FC	LEICA	34 in	24 in	24 in	5 in	27 in	27 in	Desk	Dimensions include other 2 components (light sources)
Chih-Wen Ni	00356	Leica CTR Advanced	LEICA	9 in	12 in	12 in	8 in	11 in	11 in	Desk	Part of confocal (3/4)
Chih-Wen Ni	00355	Leica Light Source	LEICA	5.5 in	12 in	12 in	10 in	8 in	8 in	Desk (on CTR Ad	Part of confocal (4/4)
Chih-Wen Ni	00394	Balancer	Mettler-Toledo	8 in	12 in	12 in	6 in	4 in	4 in	BENCH TOP	
Chih-Wen Ni	00370	Okolab TUnit Bold line	OKOLAB	13 in	9 in	9 in	3 in	5.25 in	5.25 in	On wire shelf	Part of cage incubator (1/4)
Chih-Wen Ni	00369	Okolab Air Heater	OKOLAB	9.25 in	9.25 in	9.25 in	5 in	9.5 in	9.5 in	On wire shelf	Part of cage incubator (2/4)
Chih-Wen Ni	00368	Okolab Cage	OKOLAB	32 in	16 in	16 in	20 in	25 in	25 in	Airtable	Part of cage incubator (3/4)

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Chih-Wen Ni	00397	Microwave	Panasonic	20.5 in	15 in	37.5 in	2.75 in	11.5 in	11.5 in	BENCH TOP	
Chih-Wen Ni	01901	Vacuum Manifold	Panasonic	4.5 in	14 in	14 in	15 in	7 in	7 in	Lab Bench	
Chih-Wen Ni	01903	Foldable Ladder	Rubbermaid	13 in	27 in	27 in	27 in	45 in	45 in	FLOOR	
Chih-Wen Ni	00400	Cabinet (left)	SANDUSKY	35 in	24.5 in	41 in	0 in	78 in	78 in	FLOOR	
Chih-Wen Ni	00399	Cabinet (right)	SANDUSKY	35 in	24.5 in	41 in	0 in	78 in	78 in	FLOOR	
Chih-Wen Ni	00398	Shelf (Left)	Seville Classics	29 in	13 in	13 in	0 in	60.5 in	60.5 in	FLOOR	
Chih-Wen Ni	00351	Centrifuge (left)	Centrifuge (left)	9.8 in	17 in	17 in	18 in	12.5 in	22 in	Lab Bench	
Chih-Wen Ni	00365	invitrogen Safe Imager 2.0	Thermo Scientific	12.5 in	11.5 in	11.5 in	13 in	3.5 in	3.5 in	Table	Part of cage incubator (4/4)
Chih-Wen Ni	00396	Stirring hotplate 1	Thermo Scientific	8 in	11 in	11 in	2.75 in	4.5 in	4.5 in	BENCH TOP	
Chih-Wen Ni	00395	pH meter	Thermo Scientific	10.75 in	7 in	7 in	6 in	9 in	18 in	BENCH TOP	
Chih-Wen Ni	00393	Water Bath	Thermo Scientific	14.5 in	14.5 in	14.5 in	6 in	14 in	26.5 in	BENCH TOP	
Chih-Wen Ni	00389	Stirring Hotplate 2	Thermo Scientific				6 in			BENCH TOP	
Chih-Wen Ni	00353	Centrifuge (right)	Thermo Scientific	9.8 in	17 in	17 in	18 in	12.5 in	22 in	Lab Bench	
Chih-Wen Ni	00390	Centrifuge	Thermo Scientific	24.5 in	23.5 in	23.5 in	6 in	13.5 in	35.5 in	BENCH TOP	
Chih-Wen Ni	00382	Heat Sealer	Thermo Scientific	8.5 in	6.75 in	6.75 in	5 in	9 in	9 in	BENCH TOP	
Chih-Wen Ni	00381	Nanodrop	Thermo Scientific	8 in	7.5 in	7.5 in	5 in	13 in	13 in	BENCH TOP	
Chih-Wen Ni	00366	TMC / Ametek	Airtable - CleanTop	35 in	28 in	28 in	10 in	6 in	6 in	Airtable-legs / FL(	Part of air table (1/3)
Chih-Wen Ni	00364	TMC / Ametek	Airtable - Gimbal Piston	34 in	28 in	28 in	10 in	25 in	25 in	FLOOR	Part of air table (2/3)
Chih-Wen Ni	00386	Shelf (Right)								FLOOR	
Chih-Wen Ni	00372	Lab Bench Desk		72 in	31 in	31 in	0 in	45 in	45 in	FLOOR	
Chih-Wen Ni	00371	Lab Chair		24 in	24 in	24 in		47 in	47 in	FLOOR	
Chih-Wen Ni	00358	Desk		32 in	32 in	32 in	8 in	29 in	29 in	FLOOR	Contains LG Screen for HP z840 Destktop and light sources for confocal
Chih-Wen Ni	00357	Desk		60 in	30 in	30 in	0 in	30 in	30 in	FLOOR	Contains Leica M165 FC
Chih-Wen Ni	01902	Lab Bench Desk		72 in	30 in	30 in	0 in	32 in		FLOOR	
Chih-Wen Ni	01904	Lab Chair		24 in	24 in	24 in	0 in	47 in	47 in	FLOOR	

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Clarissa Nobile	02021	Antec Computer/Samsung Monitor	Antec								
Clarissa Nobile	02037	Bead beater	Omni	17	19			14	26		
Clarissa Nobile	02026	Bioflux Computer/Monitors	Dell								
Clarissa Nobile	02024	Bioflux Pump/Power supplies	Fluxion Biosciences								
Clarissa Nobile	02050	biohazard bin	NA	18.5	23			37	21		
Clarissa Nobile	02051	biohazard bin	NA	18.5	23			37	21		
Clarissa Nobile	02048	PC Desktop (Monitor + Keyboard + Mouse)	NA	19	42				44		
Clarissa Nobile	02052	Belly Dancer		15	18			33			
Clarissa Nobile	02053	Flammable Cabinet		15	18			33			
Clarissa Nobile	02054	Leica DMi8 Confocal		15	18			33			
Clarissa Nobile	02055	Leica Scanning Power Unit		15	18			33			
Clarissa Nobile	02056	Stereo Microscope		15	18			33			
Clarissa Nobile	02057	Contrast Microscope		15	18			33			
Clarissa Nobile	02058	Leica M165 FC		15	18			33			
Clarissa Nobile	02059	Leica CTR Advanced		15	18			33			
Clarissa Nobile	02060	Leica Light Source		15	18			33			
Clarissa Nobile	02061	Balancer		15	18			33			
Clarissa Nobile	00661	Centrifuge	Eppendorf	27.5	22			14	32	BENCH TOP	
Clarissa Nobile	00667	Centrifuge	Eppendorf	13	16		2	10	22		
Clarissa Nobile	00677	Centrifuge	Eppendorf	13	16		2	10	22	BENCH TOP	
Clarissa Nobile	02014	Cytation5 Plate Reader	BioTek Instruments	16.5	20	26		20			This plate reader is accompanied with the laptop with tag # , monitor with tag # , and hard drive with tag #
Clarissa Nobile	02030	Drum roller	eppendorf								
Clarissa Nobile	00691	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	00692	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	00693	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	

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Clarissa Nobile	00694	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	00695	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	02001	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	02022	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	02039	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	02040	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	02041	ELMI Shaker	ELMI	14.5	13		2	6	14	BENCH TOP	
Clarissa Nobile	02009	Epoch2 Plate Reader	BioTek	13	16	22	2	13			
Clarissa Nobile	02010	Evos Microscope	LifeTechnologies	16	18			24			
Clarissa Nobile	02013	Gel Imager	Labnet	14.5	12	21.5	2	23			This gel imager is accompanied with the laptop with tag #
Clarissa Nobile	00658	Grey Cabinet	NA	36	26		0	78		FLOOR	
Clarissa Nobile	02049	grey cart	NA	19	34				42		
Clarissa Nobile	02062	Grey filing cabinet	NA	30	18.5			65			
Clarissa Nobile	00662	Grey Shelf	NA	30	15		0	65		FLOOR	
Clarissa Nobile	00663	Grey Shelf	NA	30	15		0	65		FLOOR	
Clarissa Nobile	02027	Grey Shelf	NA	30	15		0	65		FLOOR	
Clarissa Nobile	02016	hard drive		9	12			13			Associated with tags #
Clarissa Nobile	00681	Heatblock	Eppendorf	9	12			10		BENCH TOP	
Clarissa Nobile	02007	hot plate	Corning	6	7			4			
Clarissa Nobile	02015	hp laptop	HP	15	10	12					This laptop is associated with the plate reader with tag # , monitor with # , and hard drive with #.
Clarissa Nobile	00668	Leica DMi8 Confocal	Apple	26	8		2	20			
Clarissa Nobile	00665	Stereo Microscope	VWR	24	26	51		36			
Clarissa Nobile	00688	Laptop	Dell	14	11			2.5	12	BENCH TOP	This laptop is associated with the microscope with asset tag #667
Clarissa Nobile	00690	Laptop	HP	15	10			2	11	BENCH TOP	This laptop is associated with the Qiagen Roto-Gene Q with asset tag #689
Clarissa Nobile	02012	Laptop	Lenovo	14	10			1.5	11		This laptop accompanies the gel imager with tag #
Clarissa Nobile	00671	Large Biosafety Hood (B)	Labconco	78	32		2	93		FLOOR	

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Clarissa Nobile	02019	Leica microscope	Leica								
Clarissa Nobile	02020	Leica microscope fluorescence illumination system	Leica								
Clarissa Nobile	00672	Lyophilizer	Labconco	23	26		3	30			
Clarissa Nobile	00676	Lyophilizer pump	vacuubrand	20	13			11		BENCH TOP	
Clarissa Nobile	00669	Medium Biosafety Hood (C)	Labconco	54	32		2	93		FLOOR	
Clarissa Nobile	00687	Microscope	Fisher Scientific	8	16			16		BENCH TOP	This microscope is associated with the laptop with asset tag #688
Clarissa Nobile	02011	Microwave	MagicChef	18.5	13	26		11			
Clarissa Nobile	00697	MiniSpin	eppendorf	8	9		2	6	10.5	BENCH TOP	
Clarissa Nobile	00698	MiniSpin	eppendorf	8	9		2	6	10.5	BENCH TOP	
Clarissa Nobile	02032	MiniSpin	eppendorf	8	9		2	6	10.5	BENCH TOP	
Clarissa Nobile	02036	MiniSpin	eppendorf	8	9		2	6	10.5	BENCH TOP	
Clarissa Nobile	02044	MiniSpin	eppendorf	8	9		2	6	10.5	BENCH TOP	
Clarissa Nobile	02002	pH Meter	Mettler Toledo	15	14		2	21			
Clarissa Nobile	00686	Plate centrifuge	Benchmark Scientific	8.5	10			9		BENCH TOP	
Clarissa Nobile	00689	qPCR Machine	Qiagen	15	18			12	15	BENCH TOP	This is associated with the laptop with asset tag #690
Clarissa Nobile	00680	Rotating shaker	Eppendorf	10	16		2	11		BENCH TOP	
Clarissa Nobile	02004	Scale	Sartorius	8.5	15			4			
Clarissa Nobile	02005	Scale	Sartorius	8.5	12	18	3	13			
Clarissa Nobile	00678	Small Biosafety Hood (A)	Labconco	42	32		2	93		FLOOR	
Clarissa Nobile	02038	Sonicator									
Clarissa Nobile	02003	Stir plate	Corning	5.5	5.5			3.5			
Clarissa Nobile	02006	Stir/hot plate	Corning	11	16			4			
Clarissa Nobile	00682	Thermocycler	Labnet	9.5	16			10		BENCH TOP	
Clarissa Nobile	00683	Thermocycler	Labnet	9.5	16			10		BENCH TOP	
Clarissa Nobile	00684	Thermocycler	Applied Biosystems	9.5	18		3	8	15	BENCH TOP	

FACULTY MEMBER, PRINCIPAL INVESTIGATOR	ASSET TAG # [ENTER # FROM THE STICKER PROVIDED]	ITEM DESCRIPTION	MANUFACTURER NAME	WIDTH (INCHES)	DEPTH [FRONT TO BACK]	DEPTH [WITH DOOR OPEN] (INCHES)	DEPTH BEHIND EQ ITEM [MEAS	HEIGHT [TOP TO BOTTOM INCLUDING	HEIGHT [WHEN ITEM HAS	LOCATION/PLACEMENT [SELECT	SPECIAL NOTES OR COMMENTS
Clarissa Nobile	00685	Thermocycler	Applied Biosystems	9.5	18		3	8	15	BENCH TOP	
Clarissa Nobile	02045	Vacuum pump									
Clarissa Nobile	00696	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	00699	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	00700	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	02031	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	02033	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	02034	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	02035	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	02042	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	02043	Vortex-Genie 2	Scientific Industries	5	6.5		2	7		BENCH TOP	
Clarissa Nobile	00679	Water bath	Fisher Scientific	10	16		4	22			
Clarissa Nobile	02008	Water bath	Fisher Scientific	14	10			16	19		
Clarissa Nobile	00664	Water purifier	Elga	16	14			19		WALL MOUNTED	
Clarissa Nobile	00657	Wire Rack	NA	37	25		3	74		FLOOR	
Clarissa Nobile	02017	wood table	NA	58.5	23			56			
Clarissa Nobile	02018	wood table	NA	58.5	23			56			
Clarissa Nobile	02023	Wood table	wood table	35	28			52			
Clarissa Nobile	02028	Wooden shelf	NA	32	18			80			
Clarissa Nobile	02046	wooden table	NA								
Clarissa Nobile	02047	wooden table	NA								
Clarissa Nobile	02025	Zeiss Microscope	Zeiss								
Donna Jaramillo-Fellin	00613	Balance	Mettler Toledo	8.25	15.75	17.25		11		BENCH TOP	
Donna Jaramillo-Fellin	00614	Balance	Mettler Toledo	8.25	15.75	17.25		11		BENCH TOP	
Donna Jaramillo-Fellin	00615	Balance	Mettler Toledo	8.25	15.75	17.25		11		BENCH TOP	

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Donna Jaramillo-Fellin	00616	Balance	Mettler Toledo	8.25	15.75	17.25		11		BENCH TOP	
Donna Jaramillo-Fellin	00617	Balance	Mettler Toledo	8.25	15.75	17.25		11		BENCH TOP	
Donna Jaramillo-Fellin		Balance	Mettler Toledo	8.25	15.75	17.25		11		BENCH TOP	
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin		Base, 560 mm, Photoelectric Effect	Pasco	21.9	3.5			1			
Donna Jaramillo-Fellin	02735	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02736	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02737	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02738	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02739	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02740	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02741	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02742	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02743	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin	02744	Bench, optical, Zeeman apparatus	Cenco	4	23.5			3.5			
Donna Jaramillo-Fellin		Foldable Ladder								WALL MOUNTED	mount near small radioactive source cabinet
Donna Jaramillo-Fellin	00602	Cabinet, radioactive sources, large	Harloff	23.5	10.5			29.5		WALL MOUNTED	35 lbs

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Donna Jaramillo-Fellin	00601	Cabinet, radioactive sources, small	Harloff	12	9			16		WALL MOUNTED	15 lbs
Donna Jaramillo-Fellin	02773	Camera, CCD, B/W, TV lens f=50mm 1:14, w/power adapter (DC12V2A output)		0.125	0.125			58			Stored in cabinet
Donna Jaramillo-Fellin	02638	Camera, CCD, Color, 1/3"		2	2.125			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02639	Camera, CCD, Color, 1/3"		2	2.125			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02640	Camera, CCD, Color, 1/3"		2	2.125			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02641	Camera, CCD, Color, 1/3"		2	2.125			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02642	Camera, CCD, Color, 1/3"		2	2.125			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02643	Camera, CCD, Color, 1/3"		2	2.125			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02644	Camera, CCD, Color, 1/3"		2	2.125			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02635	Camera, CCD, Color, D.S.P. Digital		2.5	2.625			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02636	Camera, CCD, Color, D.S.P. Digital		2.5	2.625			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02637	Camera, CCD, Color, D.S.P. Digital		2.5	2.625			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02708	Camera, Digital, 1/6", w/power adapter (DC5.2V1.8A output)		2	1.25			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02709	Camera, Digital, 1/6", w/power adapter (DC5.2V1.8A output)		2	1.25			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02710	Camera, Digital, 1/6", w/power adapter (DC5.2V1.8A output)		2	1.25			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02711	Camera, Digital, 1/6", w/power adapter (DC5.2V1.8A output)		2	1.25			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02712	Camera, Digital, 1/6", w/power adapter (DC5.2V1.8A output)		2	1.25			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02713	Camera, Digital, 1/6", w/power adapter (DC5.2V1.8A output)		2	1.25			4.5			Stored in cabinet
Donna Jaramillo-Fellin	02714	Camera, Digital, 1/6", w/power adapter (DC5.2V1.8A output)		2	1.25			4.5			Stored in cabinet
Donna Jaramillo-Fellin	00608	Computer, HP, for GC	HP	13.5	15			4		BENCH TOP	
Donna Jaramillo-Fellin	00609	Computer, HP, for GC	HP	13.5	15			4		BENCH TOP	
Donna Jaramillo-Fellin	02765	Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin	02766	Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin	02767	Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin	02768	Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet

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Donna Jaramillo-Fellin	02769	Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin	02770	Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin	02771	Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin	02772	Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin		Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin		Control Box, Photoelectric Effect	Pasco	12.4	10.1			5.25			Stored in cabinet
Donna Jaramillo-Fellin	02676	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02677	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02678	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02679	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02680	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02681	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02682	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02683	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02684	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02685	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02686	Counter, radiation	Spectrum Techniques	10	6.5			4.25			Stored in cabinet
Donna Jaramillo-Fellin	02687	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	02688	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	02689	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	02690	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	02691	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	02692	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	02693	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	02694	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves

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Donna Jaramillo-Fellin	02695	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	02696	Electromagnet, 1.3T max, Zeeman Apparatus	Cenco	6.25	11			16.375			Very heavy, stored in cabinet/on shelves
Donna Jaramillo-Fellin	00606	Gas chromatograph, Agilent 6850 Series II – Network	Agilent	11	26.5			18.5	28.25	BENCH TOP	
Donna Jaramillo-Fellin	00607	Gas chromatograph, Agilent 6850 Series II – Network	Agilent	11	26.5			18.5	28.25	BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 4"x4" top	Thermo Fisher	5.5	11.5			2.5		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 7"x7" top		13.75	8			4		BENCH TOP	

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Donna Jaramillo-Fellin		Hot plate, 7"x7" top		13.75	8			4		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 7"x7" top		13.75	8			4		BENCH TOP	
Donna Jaramillo-Fellin		Hot plate, 7"x7" top		13.75	8			4		BENCH TOP	
Donna Jaramillo-Fellin	02755	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02756	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02757	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02758	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02759	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02760	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02761	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02762	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02763	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02764	Light Source, mercury, Photoelectric Effect	Pasco	3.5	3.5			7.625			Stored in cabinet
Donna Jaramillo-Fellin	02666	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02667	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02668	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02669	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02670	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02671	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02672	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02673	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02674	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin	02675	Light Source, Sodium	Pasco	5.75	6			15			Stored in cabinet
Donna Jaramillo-Fellin		Meter, Gauss, GM-1-ST, cable probe		3.5	1			5.4			
Donna Jaramillo-Fellin	02645	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet

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Donna Jaramillo-Fellin	02646	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02647	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02648	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02649	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02650	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02651	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02652	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02653	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02654	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	02655	Meter, Tesla, 0 - 2000 mT, w/ 12V DC, 1.5A power supply, p	Frederiksen	4	2.5			7.8			Stored in cabinet
Donna Jaramillo-Fellin	00610	Monitor, LCD, HP, for GC	HP							BENCH TOP	
Donna Jaramillo-Fellin	00611	Monitor, LCD, HP, for GC	HP							BENCH TOP	
Donna Jaramillo-Fellin		Monitor, radiation, meter									
Donna Jaramillo-Fellin		Mount, Fabry-Perot etalon?									
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			

FACULTY MEMBER, PRINCIPAL INVESTIGATOR	ASSET TAG # [ENTER # FROM THE STICKER PROVIDED]	ITEM DESCRIPTION	MANUFACTURER NAME	WIDTH (INCHES)	DEPTH [FRONT TO BACK]	DEPTH [WITH DOOR OPEN] (INCHES)	DEPTH BEHIND EQ ITEM [MEAS	HEIGHT [TOP TO BOTTOM INCLUDING	HEIGHT [WHEN ITEM HAS	LOCATION/PLACEMENT [SELECT	SPECIAL NOTES OR COMMENTS
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin		Multimeter, 4-digit, true RMS, U1241B, DMM		3.2	1.75			7			
Donna Jaramillo-Fellin	02656	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02657	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02658	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02659	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02660	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02661	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02662	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02663	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02664	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	02665	Operating Unit, Franck-Hertz	Klinger	9	9			6.5			Stored in cabinet
Donna Jaramillo-Fellin	00619	Oven	Quincy Lab	14.75	14.5	25.5		26.25		BENCH TOP	
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			

FACULTY MEMBER, PRINCIPAL INVESTIGATOR	ASSET TAG # [ENTER # FROM THE STICKER PROVIDED]	ITEM DESCRIPTION	MANUFACTURER NAME	WIDTH (INCHES)	DEPTH [FRONT TO BACK]	DEPTH [WITH DOOR OPEN] (INCHES)	DEPTH BEHIND EQ ITEM [MEAS	HEIGHT [TOP TO BOTTOM INCLUDING	HEIGHT [WHEN ITEM HAS	LOCATION/PLACEMENT [SELECT	SPECIAL NOTES OR COMMENTS
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin		Photodiode, w/ enclosure	Pasco	3.5	3.5			7.625			
Donna Jaramillo-Fellin	00631	Power controller	Barnstead Electrotherma	3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00632	Power controller	Barnstead Electrotherma	3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00633	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00634	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00635	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00636	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00637	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00638	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00639	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00640	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00641	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00642	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00643	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00644	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00645	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00646	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00647	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00648	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	00649	Power controller		3.75	5.25			4.25		BENCH TOP	

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Donna Jaramillo-Fellin	00650	Power controller		3.75	5.25			4.25		BENCH TOP	
Donna Jaramillo-Fellin	02745	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02746	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02747	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02748	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02749	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02750	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02751	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02752	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02753	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02754	Power Supply, for Photoelectric Effect Apparatus	Pasco	9.1	5.5			3.5			Stored in cabinet
Donna Jaramillo-Fellin	02697	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02700	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02701	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02702	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02703	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02704	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02705	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02706	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02707	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02708	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin	02709	Power supply, for spectrum lamp	Electrotechnic Products	4.5	3.25			14.75			Stored in cabinet
Donna Jaramillo-Fellin		Power supply, single output, digital	BK Precision							BENCH TOP	Stored in cabinet
Donna Jaramillo-Fellin	00612	Printer, laser	HP	17	16	28.5		11.75		BENCH TOP	
Donna Jaramillo-Fellin		Rider, optical?									

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Donna Jaramillo-Fellin	00603	Rotary evaporator	Buchi	16	22			33		BENCH TOP	
Donna Jaramillo-Fellin	00604	Rotary evaporator	Buchi	21.5	20.5			31.5		BENCH TOP	
Donna Jaramillo-Fellin	00605	Rotary evaporator	Buchi	21.5	20.5			31.5		BENCH TOP	
Donna Jaramillo-Fellin	02724	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02725	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02726	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02727	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02728	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02729	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02730	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02731	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02732	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02733	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin	02734	Spectrometer, student		17	8.5			9.75			
Donna Jaramillo-Fellin		Table, support?									
Donna Jaramillo-Fellin	00630	Tube furnace	Thermo Fisher	16.5	12.5	16		15	22	BENCH TOP	
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			

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Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin		Tube, Geiger-Mueller, in stand w/sample holder	Spectrum Techniques	4.125	4.125			5.5			
Donna Jaramillo-Fellin	00620	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00621	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00622	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00623	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00624	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00625	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00626	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00627	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00628	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Donna Jaramillo-Fellin	00629	Vacuum pump	vacuubrand	8.5	9.5			8.25		BENCH TOP	
Dustin Kleckner	00513	3D Printer	Form Labs	13.5	13	N/A	N/A	21	30	BENCH TOP	
Dustin Kleckner	00512	3D Printing Station	Form Labs	10.5	12	N/A	N/A	13.5	25	BENCH TOP	
Dustin Kleckner	00524	Amplifier	OMKYO	17	11.5	N/A	N/A	5.5	N/A	BENCH TOP	
Dustin Kleckner	00536	Benchtop optical table	Thorlabs	24	24	N/A	N/A	3	N/A	BENCH TOP	
Dustin Kleckner	00521	Cabinet	Waterloo	27	18.5	32	N/A	32	N/A	FLOOR	
Dustin Kleckner	00528	Cabinet	Waterloo	27	18.5	32	N/A	32	N/A	FLOOR	
Dustin Kleckner	00529	Cart	N/A	14	31.5	N/A	N/A	30	N/A	FLOOR	
Dustin Kleckner	00533	Cart	Startech	24	35	N/A	N/A	29	N/A	FLOOR	This cart houses a server and a computer
Dustin Kleckner	00519	Centrifuge	Thermo Scientific	14.5	18.5	N/A	N/A	12.5	26	BENCH TOP	
Dustin Kleckner	00511	Centrifuge	CAPP	6	6			5	9	BENCH TOP	
Dustin Kleckner	00540	Computer Casing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CART	This item is mounted into a cart which is also in inventory #00533
Dustin Kleckner	00502	Computer Monitor	Dell	24	8	N/A	N/A	20	N/A	BENCH TOP	
Dustin Kleckner	00503	Computer Monitor	HP	24.5	9	N/A	N/A	18	N/A	BENCH TOP	

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Dustin Kleckner	00504	Computer Monitor	HP	24.5	9	N/A	N/A	18	N/A	BENCH TOP	
Dustin Kleckner	00515	Computer Monitor	Dell	22.5	8	N/A	N/A	20	N/A	BENCH TOP	
Dustin Kleckner	00516	Computer Monitor	Dell	22.5	8	N/A	N/A	20	N/A	BENCH TOP	
Dustin Kleckner	00526	Computer Monitor	View Sonic	20	8	N/A	N/A	16	N/A	BENCH TOP	
Dustin Kleckner	00530	Computer Monitor	Dell	25.5	18	N/A	N/A	19	N/A	BENCH TOP	
Dustin Kleckner	00532	Computer Monitor	View Sonic	20	8	N/A	N/A	16	N/A	BENCH TOP	
Dustin Kleckner	00538	Computer monitor	Dell	24	8	N/A	N/A	20	N/A	BENCH TOP	
Dustin Kleckner	00514	Computer Monitor	Dell	22.5	8	N/A	N/A	20	N/A	BENCH TOP	
Dustin Kleckner	00501	Computer Tower	Dell	7	20	N/A	N/A	16	N/A	BENCH TOP	
Dustin Kleckner	00531	Computer Tower	N/A	9.5	21.5	N/A	N/A	18.5	N/A	BENCH TOP	
Dustin Kleckner	00537	Computer Tower	Fractal design	14	15	N/A	N/A	13	N/A	BENCH TOP	
Dustin Kleckner	00507	Digital Ultrasonic cleaner	Jeken	7	7			9		BENCH TOP	
Dustin Kleckner	00544	Laser	Spectra-Physics	5.5	14	N/A	N/A	7.5	N/A	BENCH TOP OPTICAL	
Dustin Kleckner	00545	Laser	Spectra-Physics	5.5	14	N/A	N/A	7.5	N/A	BENCH TOP OPTICAL	
Dustin Kleckner	00542	Laser Controller	IPG Photonics	N/A	N/A	N/A	N/A	N/A	N/A	CART	This item is mounted in a cart. #00535 It also sensitive laser head attached! that is external to the cart
Dustin Kleckner	00525	Laser Cutter	Universal Laser Systems	34	26	N/A	N/A	14	30	BENCH TOP	
Dustin Kleckner	00543	Laser Head	IPG Photonics	5	12	N/A	N/A	3	N/A	BENCH TOP OPT	This item is attached to item #00543 which is mounted in item #00535
Dustin Kleckner	00520	LED Light	Imports of High Power LE	22	22	N/A	N/A	60	N/A	FLOOR	
Dustin Kleckner	00506	Microscope	AmScope	32	32	N/A	N/A	17	N/A	BENCH TOP	
Dustin Kleckner	00534	Optical bench	TME	59	36	N/A	N/A	31	N/A	FLOOR	
Dustin Kleckner	00517	Oven	Across International	21	18	32	N/A	17	N/A	BENCH TOP	
Dustin Kleckner	00518	Power Supply	Tek Power	3.5	8.5			6.5		BENCH TOP	
Dustin Kleckner	00523	Power Supply	BK Precision	8.5	10			5		BENCH TOP	
Dustin Kleckner	00509	Precision Balance	Tree	7.5	11			4		BENCH TOP	
Dustin Kleckner	00541	Server	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CART	This item is mounted in a car # 00533

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Dustin Kleckner	00522	SOLDERING IRON	Hakko	7	5			5		BENCH TOP	
Dustin Kleckner	00505	Solid State Drive Computer	Intel	5	5			2		BENCH TOP	
Dustin Kleckner	00535	Sound proof cabinet	Startech	28	31	53	N/A	29	N/A	BENCH TOP	It houses a laser control panel which is connected to the laser head
Dustin Kleckner	00527	SSD Computer	Intel	5	5			2		BENCH TOP	
Dustin Kleckner	00510	UV Lamp	UVP	8	5			7		BENCH TOP	
Dustin Kleckner	00508	Vortex Mixer	Fisher	5	8			6.5		BENCH TOP	
Dustin Kleckner	00516	Wave Form Generator	BK Precision	11	12			8		BENCH TOP	
Eva de Able	02467	Table									
Eva de Alba	00155	Analog Vortex	Fischer Scientific	4.5	7.5	7.5	1.75	6.75	6.75	Table	
Eva de Alba	00153	Analytical Balance	Mettler Toledo	7.25	17	17	5.75	11.5	11.5	Table	
Eva de Alba	00157	Bacteria shaker	New Brunswick	50	30.5		8	42.5	64	FLOOR	
Eva de Alba	00174	Computer Tower DELL Optiplex XE2	DELL	7	16.5	16.5	13	14.25	14.25	Table	
Eva de Alba	00175	Computer Tower Dell Optiplex XE2	DELL	7	16.5	16.5	7	14.25	14.25	Floor	
Eva de alba	00171	desk		60	30		5	28		FLOOR	
Eva de Alba	02465	Filing cabinet									
Eva de Alba	00173	Fraction Collector UHPLC+ Focused	ThermoScientific	11	16.75	16.75	13.25	13.75	13.75	Table	
Eva de Alba	00172	Fraction Collector UHPLC+ Focused	ThermoScientific	13.5	19.25	19.25	8.75	16.25	16.25	Table	
Eva de alba	00162	heat block	VWR	7.5	10		3	4.5		BENCH TOP	
Eva de Alba	00164	Lyophilizer	LABCONCO	15	22	22	9	15	31	Next to sink	Take pump that is connected to machine
Eva de Alba	00163	microcentrifuge	eppendorf	8.5	12			7.5	17	BENCH TOP	
Eva de Alba	00154	Seven Compact	Mettler Toledo	6.75	7.25	7.25	9.75	2.75	2.75	Table	
Eva de Alba	02466	Seven Compact	Mettler Toledo	6.75	7.25	7.25	9.75	2.75	2.75	BENCH TOP	
Eva de Alba	00176	Stir Bar	ThermoScientific	5.25	6.25	6.25	2.25	5.25	5.25	Table	
Eva de Alba	02468	Table									
Eva de Alba	02469	Table									

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Eva de Alba	00167	UHPLC+ focused	ThermoScientific	16.5	19.75	19.75	8	3.5	3.5	Table	
Eva de Alba	00152	UHPLC+ focused	ThermoScientific	16.5	19.75	24.5	8	5.75	5.75	Table	
Eva de Alba	00166	UHPLC+ focused	ThermoScientific	16.5	19.75	24.5	8	6	6	Table	
Eva de Alba	00168	UHPLC+ focused	ThermoScientific	16.5	19.75	19.75	10.25	3.5	3.5	Table	
Eva de Alba	00169	UHPLC+ focused	ThermoScientific	16.5	19.75	24.5	10.25	6	6	Table	
Eva de Alba	00158	UV-Vis	Agilent Technologies	18.75	21.75	21.75	5.5	7.5	7.5	Table	keep with computer. tag number 165
Eva de alba	00165	UV-Vis computer	HP	13.25	15			4		table	
Eva de Alba	00161	Vortex	Fisher	4.5	9		3	7		BENCH TOP	
Eva de Alba	00170	Ultimate 3000	ThermoScientific	16.5	19.75	24.5	10.25	5.75	5.75	Table	
Jay Sharping	06582	6 axis stage	Thor Labs	16	13			6			
Jay Sharping	00872	air compressor	Senco	30	13			22			
Jay Sharping	06591	PC Desktop (Monitor+Mouse+Keyboard)	Rubbermaid	19	37			33			
Jay Sharping	00896	Coherent V10 controller	Coherent	18	18			11		FLOOR	Umbilical cannot be bent tightly
Jay Sharping	00895	Coherent V5 controller	Coherent	18	18			8		FLOOR	Umbilical cannot be bent tightly
Jay Sharping	00885	Cold trap	Oxford	7				37			
Jay Sharping	00880	Cold trap	Oxford	7				37			
Jay Sharping	00877	Compressor	KNF	20	10			13			
Jay Sharping	06589	CPU	HP	7	18			18			
Jay Sharping	00857	Cryo-actuator drive	JPE	21	12			6			
Jay Sharping	00887	Cryomech controller	Cryomech	19	20			25			Special care - umbilicals attached
Jay Sharping	00881	Cryomech controller	Cryomech	19	20			25			Special care - umbilicals attached
Jay Sharping	06586	Current Pre-Amplifier	Standard Research Syste	8	13			4			
Jay Sharping	06579	DC Power supply	BK Precision	10	12			7			
Jay Sharping	06606	DC power supply	BK Precision	6	12			7			
Jay Sharping	06632	DC power supply		5	11			6			

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Jay Sharping	06648	DC power supply	BK Precision	10	9			7			
Jay Sharping	06590	Desktop Monitor	HP	19	10			19			
Jay Sharping	06599	Digital multimeter	Fluke	8	10			3			
Jay Sharping	06600	Digital multimeter	Fluke	8	10			3			
Jay Sharping	06596	Digital voltmeter counter	HP	17	18			4			
Jay Sharping	06597	Digital voltmeter counter	HP	17	18			4			
Jay Sharping	06567	Diode Laser Controller	Toptica	13	18			7			
Jay Sharping	06610	Dissection microscope	Olympus	7	10			15			
Jay Sharping	06574	Driver Amplifier	N/A (Homemade)	12	10			5			
Jay Sharping	06646	EDFA	AFOI	15	4			19			
Jay Sharping	06647	Electrical spectrum analyzer	HP	18	13			6			
Jay Sharping	06569	Fiber Amplifier	IPG	16	20			6			
Jay Sharping	00865	Fiber splicer	Fujikura	19	13			16			
Jay Sharping	06614	Flammable liquid storage cabinet	Justrite	17	17			23			
Jay Sharping	00886	Fore pump	Alcatel	25	9			13			
Jay Sharping	0879	Fore pump	Alcatel	25	9			13			
Jay Sharping	00855	Function generator	Stanford research systen	9	15			4			
Jay Sharping	00854	Function generator	Tektronix	10	10			3			
Jay Sharping	06570	Function Generator	Krohn-Hite Co.	16	18			6			
Jay Sharping	06571	Function Generator	Krohn-Hite Co.	16	18			6			
Jay Sharping	06636	Function generator	Wavetek	9	3			12			
Jay Sharping	06607	Gas cylinder (Hydrogen)		8	8			56			
Jay Sharping	06577	Gas Cylinder of Oxygen		9	9			54			
Jay Sharping	06634	Gaussmeter	LakeShore	9	3			12			
Jay Sharping	06635	Gaussmeter	LakeShore	9	3			12			

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Jay Sharping	06592	Grey Cart	Rubbermaid	25	34			33			
Jay Sharping	00876	Helium gas tank		18				62			
Jay Sharping	00869	Helium leak detector	Adixen	17	18			22			
Jay Sharping	06612	High power fiber laser	PolarOnyx	14	17			6			
Jay Sharping	06598	High power voltage	Lambda	17	20			5			
Jay Sharping	06637	Instrument rack		26	32			84			
Jay Sharping	06638	Instrument rack		20	18			70			
Jay Sharping	06649	Instrument rack		27	20			78			
Jay Sharping	06576	Instrument Rack\ Cart	Na	20	28			77			
Jay Sharping	06642	Keyboard	Dell	18	6			1			
Jay Sharping	06602	Laptop	HP	16	11			2			
Jay Sharping	06575	Laser Controller	Coherent	13	18			8			
Jay Sharping	06594	Laser controller	TimeBandwidth	11	13			5			
Jay Sharping	06643	Laser controller	Thorlabs	14	9			5			
Jay Sharping	00897	Laser curtains	Wilson								Will probably reassemble ourselves
Jay Sharping	06580	Laser Diode Controller	Thor Labs	9	15			5			
Jay Sharping	06613	Laser diode controller	Thorlabs	6	12			3			
Jay Sharping	06568	Laser Head	Toptica	4	10			3			
Jay Sharping	06595	Laser head	TimeBandwidth	8	15			4			
Jay Sharping	00860	Lock-in Amplifier	Stanford research system	21	25			7			
Jay Sharping	00856	Lock-in Amplifier	Stanford research system	21	25			7			
Jay Sharping	06608	Microscope	Optem ZOOM115	16	14			22			
Jay Sharping	00891	Mira900	Coherent	16	44			8	16	BENCH TOP	
Jay Sharping	06609	Modulamp	Schott	8	8			5			
Jay Sharping	06583	Modular Controller	Newport	20	18			6			

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Jay Sharping	06566	Modulator Driver	Intraction	9	13			4			
Jay Sharping	06578	Monitor	Triuies	14	16			13			
Jay Sharping	00864	Network Analyzer	HP	21	25			13			
Jay Sharping	06631	Network analyzer	HP	17	26			9			
Jay Sharping	00866	Nitrogen gas tank		20				60			
Jay Sharping	00884	Nitrogen tank	International Cryogenics	22				34			
Jay Sharping	00878	Nitrogen tank	International Cryogenics	22				34			
Jay Sharping	06611	Optical compressor	PolarOnyx	13	13			6			
Jay Sharping	06601	Optical spectrum analyzer	ANDO	17	18			9			
Jay Sharping	00900	Optical table (with legs)	Melles Griot	49	97			37		FLOOR	
Jay Sharping	00899	Optical table (with legs)	Melles Griot	49	97			37		FLOOR	
Jay Sharping	00861	Oscilloscope	Tektronix	14	7			7			
Jay Sharping	06585	Oscilloscope	LeCroy	13	8			4			
Jay Sharping	06603	Oscilloscope	Tektronix	13	4			7			
Jay Sharping	06604	Oscilloscope	Tektronix	13	4			7			
Jay Sharping	00898	Overhead shelf and curtain support	Custom	200	54			96		FLOOR	Will probably reassemble ourselves
Jay Sharping	00889	Oxford dilution refrigerator main chamber (system B)	Oxford	28				65			Special care - umbilicals attached
Jay Sharping	00883	Oxford dilution refrigerator main chamber (system B)	Oxford	28				65			Special care - umbilicals attached
Jay Sharping	06641	PC	Dell	12	7			17			
Jay Sharping	06639	PC Cart		27	22			43			
Jay Sharping	06640	PC monitor	Dell	1	13			21			
Jay Sharping	00859	Power supply	Stanford research systen	9	14			4			
Jay Sharping	00858	Power supply	HP	9	14			4			
Jay Sharping	00853	Power supply	HP	10	17			4.5			
Jay Sharping	06644	Power supply	Agilent	9	11			3			

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Jay Sharping	06645	Power supply	Agilent	9	11			3			
Jay Sharping	06605	Printer	HP	14	15			10			
Jay Sharping	06584	Pulse Compressor	PolarOnyx.Inc	19	13			8			
Jay Sharping	06587	Pulse Generator	Hp	8	12			7			
Jay Sharping	00875	Pump	Pfeiffer vacuum	22	10			9			
Jay Sharping	00871	Pump	Adixen	24	25			35			
Jay Sharping	00870	Pump	Varian	25	25			20			
Jay Sharping	00892	Rega9000	Coherent	16	44			8	16	BENCH TOP	
Jay Sharping	00863	Signal Generator	Agilent	21	25			5			
Jay Sharping	00862	Signal Generator	Agilent	21	25			5			
Jay Sharping	00874	small helium tank		5				25			
Jay Sharping	00873	small helium tank		5				25			
Jay Sharping	00852	Source meter	Keithly	10	17			4.5			
Jay Sharping	00851	Source meter	Keithly	10	17			4.5			
Jay Sharping	00867	Sputterer with pump	Cressington	24	28			19			
Jay Sharping	06593	Timing stabilizer	TimeBandwidth	10	10			5			
Jay Sharping	00868	Toolbox	Craftsman	30	15			70			
Jay Sharping	06581	Tunable Laser source	HP	17	19			7			
Jay Sharping	06572	Universal Controller	HP	17	19			4			
Jay Sharping	06573	Universal Controller	HP	17	19			4			
Jay Sharping	06588	Universal Motion Controller	Newport	17	13			4			
Jay Sharping	00893	Verdi	Coherent	19	6			8		BENCH TOP	Umbilical cannot be bent tightly
Jay Sharping	00894	Verdi V10	Coherent	19	6			8		BENCH TOP	Umbilical cannot be bent tightly
Jay Sharping	00888	Vericold control rack	Oxford	24	32			77			
Jay Sharping	00882	Vericold control rack	Oxford	24	32			77			

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Jennifer Manilay		Biohazard Bin 2									
Jennifer Manilay		Biohazrd Bin 1									
Jennifer Manilay	02103	Centrifuge	eppendorf	28	24			13	27	BENCH TOP	
Jennifer Manilay		Computer Tower									
Jennifer Manilay		Microscope									
Jennifer Manilay		Monitor									
Jennifer Manilay		Vaccum									
Jennifer Manilay		Vaccume									
Jennifer Manilay		Water Bath									
Jennifer Manilay	02114	Water bath	Aquabath	14.5	11.25	n/a	2.5	13	15	BENCH TOP	
Jennifer Manilay	02104	White Storage Drawer		22.5	14.5	26		27		FLOOR	
Jennifer Manilay	02115	White table		28.6	23.75	n/a		24.5	n/a	FLOOR	
Joel Spencer	00804	3D printer	Anycubic	16.5	15.5			18		BENCH TOP	Assebled 3D printer. Slightly fragile. Located in Vivarium, shoe covers must be worn.

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Joel Spencer	00834	Centrifuge	Thermo Scientific	9	14	14	6	10	17	BENCH TOP	Medium Size Centrifuge
Joel Spencer	00805	Desktop Computer	N/A	8	19.5			17.5		BENCH TOP	Hand built desktop computer. Comes with monitor and mouse and key board.
Joel Spencer	00837	File Cabinet	N/A	24	24	42	1	32.5		FLOOR	Some unnamed storage cabinets. They contain various small supplies
Joel Spencer	00836	File Cabinet	N/A	24	24	42	1	32.5		FLOOR	Some unnamed storage cabinets. They contain various small supplies
Joel Spencer	00806	File Cabinet	Sterilite	10.5	12			9.6		BENCH TOP	File Cabinets containing various lab supplies
Joel Spencer	00807	File Cabinet	Sterilite	7	8			22		BENCH TOP	File Cabinets containing various lab supplies
Joel Spencer	00808	File Cabinet	Sterilite	7	8			22		BENCH TOP	File Cabinets containing various lab supplies
Joel Spencer	00810	File Cabinet	N/A	42	18			65		FLOOR	File Cabinets containing various lab supplies
Joel Spencer	00811	File Cabinet	Sterilite	22	14			31		FLOOR	File Cabinets containing various lab supplies
Joel Spencer	00812	File Cabinet	Sterilite	22	14			31		FLOOR	File Cabinets containing various lab supplies
Joel Spencer	00814	File Cabinet	Sterilite	11	13			19		BENCH TOP	File Cabinets containing various lab supplies
Joel Spencer	00809	File Cabinet	Sterilite	22	14			31		FLOOR	File Cabinets containing various lab supplies
Joel Spencer	00820	Hard Drive Bay	OWC	5.5	10			7		CART	Hard drive storage on the same cart as the iMAC.
Joel Spencer	00801	Hot Pad	Thermo Scientific	12	17		3	5		BENCH TOP	Currently in Fume Hood.
Joel Spencer	00840	Hot Plate	Thermo Scientific	9	15			5		BENCH TOP	Located at CASTLE lab
Joel Spencer	00813	Leica Scanning Power Unit	Apple	26	8			21		CART	IMac computer located on top of cart. Connects to various components. Includes mouse and keyboard

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Joel Spencer	00825	Insight Laser	SpectraPhysics	20	36			7		BENCH TOP	Laser emitter on microscope table. On top of microscope table Spectra physics will need to be contacted in
Joel Spencer	00832	Laptop	Dell	15	10			1.5	11	BENCH TOP	Dell laptop connected to lasers.
Joel Spencer	00830	Laser Chiller	ThermoRack	19	22			7		UNDER COUNTE	Chiller for Insight Laser. Filled with fluid. Laser must be turned off before the chiller can be moved. On cart with
Joel Spencer	00828	Laser Chiller	ThermoRack	19	22			7		UNDER COUNTE	Chiller for Mai Tai laser. On Cart with power source. Laser must be off before it can be moved. Fragile.
Joel Spencer	00831	Laser Power Source	Spectra Physics	19	18			7		UNDER COUNTE	Power Source Insight for Laser. On top of cart. Fragile. Under microscope table
Joel Spencer	00829	Laser Power Source	Spectra Physics	19	18			7		UNDER COUNTE	Power Source for Mai Tai Laser. On cart with chiller. Lazer must be off before power source can be moved.
Joel Spencer	00824	Mai Tai Laser	SpectraPhysics	14	36			6		BENCH TOP	Laser emitter on microscope table. On top of microscope table Spectra physics will need to be contacted in
Joel Spencer	00802	Microcentrifuge	fisherbrand	5	6	9	3	5	6.5	BENCH TOP	small centrifuge
Joel Spencer	00818	Microscope stand	Prior	19	25			22		BENCH TOP	Objective stand mounted on the microscope table. fragile.
Joel Spencer	00850	Microscope Table	Newport	59	166	NA	NA	39.5	NA	FLOOR	Large microscope table, Located at CASTLE Labs,
Joel Spencer	00821	Microscope Table	NewPort	48	108			60		FLOOR	Large and heavy Microscope Table. NOTE: WE HAVE A FULL 2 PHOTON MICROSCOPE MOUNTED
Joel Spencer	00848	Microwave Oven	Black + Decker	19.5	12	19	5	11	11	BENCH TOP	Located at CASTLE labs, second room to the right
Joel Spencer	00843	pH meter	Apera	9	8			12		BENCH TOP	Located at CASTLE LAb, comes with connected pH probe
Joel Spencer	00827	PMT Controlled	Bliq	17	15			14		UNDER COUNTE	Custom Controlled for PMTs. Under Microscope table. Fragile. Has various cables.
Joel Spencer	00833	Rocker	VWR	11.5	17.5		6	5		BENCH TOP	Rocker
Joel Spencer	00842	Scale	USSolid	8	11			6.5		BENCH TOP	Located at CASTLE labs
Joel Spencer	00835	Scale	Mettler Toledo	10	20	20	3	14		BENCH TOP	Small Scale
Joel Spencer	00819	Scale	Ohaus	8	9.5			2.5		BENCH TOP	Small scale on benchtop.
Joel Spencer	00816	Signal Box	Echo	6	9			3.5		BENCH TOP	Signal Controller on top of microscope. NOTE: WE HAVE A FULL 2 PHOTON MICROSCOPE
Joel Spencer	00826	Signal Controller	Thorlabs	7	11			5		UNDER COUNTE	Signal Controller on top of PMT controlled. Fragile. Connects to PMT controlled and 2 other boxes.
Joel Spencer	00823	Stage Controller	Prior	7	7			7		BENCH TOP	Controls microscope stage. On top of microscope table Connects to stage. Stage is will also need to be moved.
Joel Spencer	00841	Stirrer	N/A	5	9			13		BENCH TOP	No Manufactor information on the device
Joel Spencer	00847	Table Isolator	Newport	10.5	10.5			21.5	21.5	UNDER COUNTE	Located under item 850, will most likely be moved to SE1 lab, same as items 844, 845, 846
Joel Spencer	00846	Table Isolator	Newport	10.5	10.5			21.5	21.5	UNDER COUNTE	Located under item 850, will most likely be moved to SE1 lab.
Joel Spencer	00845	Table Isolator	Newport	10.5	10.5			21.5	21.5	UNDER COUNTE	Located under item 850, will most likely be moved to SE1 lab.

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Joel Spencer	00844	Table Isolator	Newport	10.5	10.5			21.5	21.5	UNDER COUNTE	Located under item 850, will most likely be moved to SE1 lab.
Joel Spencer	00817	Tent	N/A	144	177		1	88		FLOOR	Large Hand built canvas tent. Surrounds microscope table and some cabinets. We need to be
Joel Spencer	00822	Ventilator	Harvard Apparatus	11	9			3.5		BENCH TOP	Small ventilator located on top of the microscope stand. Has various tubing connections which should go with the
Joel Spencer	00803	Vortex Mizer	Fisherbrand	4.5	4.5		2	5.5		BENCH TOP	Currently in Fume Hood
Juris Grasis	01395	AirClean 600 PCR Workstation	AirClean Systems	48	24	47	4	40	NA		
Juris Grasis	01394	AirClean 600 PCR Workstation	AirClean Systems	48	24	41	13	31	NA		
Juris Grasis		Bench Top base	Mettler Toledo								
Juris Grasis	01392	Bench Top Hood	Mettler Toledo	48	26	NA	10	24	NA		
Juris Grasis	01353	Benchtop Centrifuge	Eppendorf	13	16	NA	NA	10	22		
Juris Grasis	01352	Benchtop Centrifuge	Eppendorf	15	25	NA	NA	12	25		
Juris Grasis	01371	Benchtop Centrifuge	Beckman Coulter	30	27	NA	2	17	40		
Juris Grasis	01357	Benchtop Microcentrifuge	Beckman Coulter								
Juris Grasis	01359	Benchtop Microcentrifuge	Benchmark Scientific								
Juris Grasis	01383	Benchtop Microcentrifuge									
Juris Grasis	01385	Okolab TUnit Bold line	IDK it's a table	48	30	NA	NA	36	NA		
Juris Grasis	01376	computer monitor	Dell								
Juris Grasis	01400	Computer workstation		23	9	NA	NA	21	NA		
Juris Grasis	01365	Dell 15 inch laptop	Dell								
Juris Grasis	01373	Digital Scale	Mettler Toledo	8	13	17	NA	11	NA		
Juris Grasis	01372	Digital Scale	Mettler Toledo	8	13	NA	NA	4	NA		
Juris Grasis	01380	Floor Ultracentrifuge	BECKMAN	38	27	NA	5	48			
Juris Grasis		Fluorometer	Promega								
Juris Grasis	01358	Genie 2 Vortex	Fisher Scientific								
Juris Grasis	01399	Handheld Blender w/base	Fisher								
Juris Grasis	01360	Isotemp Drybath	Fisher Scientific								

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Juris Grasis	01366	Isotemp Drybath	Fisher Scientific								
Juris Grasis	01379	Isotemp Fridge/Freezer	Fisher Scientific	24	25	47	4	60	NA		
Juris Grasis	01375	Isotemp Hot Plate	Fisher Scientific	9	13	NA	NA	4	NA		
Juris Grasis	01367	Isotemp Hot Plate	Fisher Scientific	9	13	NA	NA	4	NA		
Juris Grasis	01354	Isotemp Water Bath	Fisher Scientific	24	14	14	NA	15	24		
Juris Grasis	01362	MaxQ 6000 Orbital Shaker	Thermo Scientific	27	33	56	NA	41	NA		
Juris Grasis	01369	Microwave	Panasonic	21	15	31	NA	13	NA		
Juris Grasis	01377	MyFuge Microfuge	Benchmark								
Juris Grasis	01397	Optical Light Source	Leica								
Juris Grasis	01398	Optical Light Source	Schott								
Juris Grasis	01374	pH Meter	Mettler Toldeo	8	6	NA	NA	9	NA		
Juris Grasis	01387	Power supply	Thermo Scientific								
Juris Grasis	01386	Power supply	Thermo Scientfific								
Juris Grasis	01368	Shaker	Fisherbrand								
Juris Grasis	01370	Spectrophotometer	VWR	20	15	NA	NA	10	16		
Juris Grasis	01364	Spectrostar Plate Reader	BMG Labtech	14	20	25	NA	7	10		
Juris Grasis	01389	Thermal Cycler	Applied Biosystems	10	19	NA	NA	10	16		
Juris Grasis	01390	Thermal Cycler	Bio RAD								
Juris Grasis	01391	Thermal Cycler	Applied Biosystems	10	19	NA	NA	10	16		
Juris Grasis	01382	Thermomixer	Eppendorf								
Juris Grasis	01356	Thermomixer	Eppendorf								
Juris Grasis	01393	UVP Transilluminator	Analytik Jena	19	14	26	NA	6	18		
Juris Grasis	01378	Vortamix	Argos								
Juris Grasis	01388	Vortex	Fisher Scientific								
Juris Grasis	01355	Vortex Mixer	Fisher Scientific								

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Juris Grasis	01381	Vortex mixer	Fisher Scientific								
Juris Grasis	01384	Vortex mixer genie 2	Fisher scientific								
Katrina Hoyer	1415	AccuScope 3032 Inverted Light Microscope	AccuScope	12	21	n/a	n/a	19.5	n/a	BENCH TOP	(877) 877-7274
Katrina Hoyer	1404	Airegard Laminar Airflow Work Station	Nuaire	78.5	33	n/a	2	84	n/a	FLOOR	(763) 553-1270
Katrina Hoyer	1401	Allegra X-14R Beckman-Coulter Centrifuge	Beckman-Coulter	30	26.5	n/a	5	16.5	39.5	BENCH TOP	800-369-0333
Katrina Hoyer	1409	Artik Thermal Cycler	Thermo Scientific	11	14.5	n/a	n/a	11.5	16	BENCH TOP	1 (800) 556-2323
Katrina Hoyer	1408	Authorized Thermal Cycler	Eppendorf	9.5	21.5	n/a	n/a	12.5	n/a	BENCH TOP	800-645-3050
Katrina Hoyer	1417	Centrifuge 5424	Eppendorf	9.5	12.5	n/a	n/a	8.5	17	BENCH TOP	800-645-3050
Katrina Hoyer	1418	Centrifuge 5424	Eppendorf	9.5	12.5	n/a	n/a	8.5	17	BENCH TOP	800-645-3050
Katrina Hoyer	1402	Drew Hemavet	Drew Scientific	10.5	18.5	n/a	n/a	12	n/a	BENCH TOP	
Katrina Hoyer	1413	GenePulser Xcell (with PC and CE Module)	BioRad	12	11.75	n/a	3	11	n/a	BENCH TOP	1-800-4BIORAD
Katrina Hoyer	1421	Gray Material Cabinet		36	25	n/a		78		FLOOR	
Katrina Hoyer	1426	Gray Open Shelf (Tubes, Serological Tips, etc...)		72.5	24.5	n/a		72		FLOOR	
Katrina Hoyer	1424	Gray Shelf (Glassware)		30	15	n/a		53.5		FLOOR	
Katrina Hoyer	1425	Gray Shelf (Reagent and Rack Storage)		30	15	n/a		65.75		FLOOR	
Katrina Hoyer	1419	JustRite Sure-Grip EX Flammable Liquid Storage Cabinet	JustRite	23	18	38.5	n/a	35	n/a	FLOOR	https://www.sartorius.com/us-en/service
Katrina Hoyer	1403	LabGard-Type A2 Biological Safety Cabinet	Nuaire	66	34	n/a	3	92.5	n/a	FLOOR	(763) 553-1270
Katrina Hoyer	1412	Microprocessor Control 280 Series Water Bath	Thermo Scientific	14.75	15.25	n/a	n/a	12.5 (includes lid)	n/a (but there is	BENCH TOP	1 (800) 556-2323
Katrina Hoyer	1420	Practum213-1S Scale	Sartorius Lab Instruments	8.5	13.5	n/a	n/a	12	n/a	BENCH TOP	800-488-5877
Katrina Hoyer	1416	Series 150 Inverted Light Microscope	Reichertt-Jung	7.5	12	n/a	n/a	15.5	n/a	BENCH TOP	n/a
Katrina Hoyer	1410	T100 Thermal Cycler	BioRad	10	18	n/a	n/a	9	17	BENCH TOP	1-800-4BIORAD
Katrina Hoyer	1422	Table 1 (Storage)		60	28	n/a		29		FLOOR	
Katrina Hoyer	1423	Table 2 (PCR Work)		36	26	n/a		32		FLOOR	
Katrina Hoyer	1414	VistaVision Inverted Light Microscope	VistaVision	8.5	18.5	n/a	n/a	18.5	n/a	BENCH TOP	n/a
Kirk Jensen	00785	CO2	Airgas / Matheson Tri-gas	37.4	8			28 (system) +41.8 (tube that is con		FLOOR	The numbers correspond to the system of tubes for CO2 supply. Together with this system are the

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Kirk Jensen	00771	Electroporator (GenePulser XCell)	BIO-RAD	12.25	12	12		11	11	BENCH TOP	
Kirk Jensen	00779	fluorescent microscope	Nikon Eclipse Ti	12.3	20.2		9.5	28.5		BENCH TOP	2 power sources: left side Andor outlet (3.2 x 5 x 3.2), right side X-Cite outlet (4.5 x 5.5 x 4)
Kirk Jensen	00772	heat block ELISA bench (VWR ANALOG 2BLOCK HEATEF	VWR	8	15			4		BENCH TOP	
Kirk Jensen	00770	heat block PCR bench	VWR	8	11			4		BENCH TOP	
Kirk Jensen	00774	Microwave	Avanti	21.8	16	32.9		12	12	BENCH TOP	
Kirk Jensen	00782	PCR machine 1 (BIO-RAD C1000 Touch Thermal Cycler)	BIO-RAD	13	18	20	11.6	14		BENCH TOP	
Kirk Jensen	00783	PCR machine 2 (BIO-RAD T100 Thermal Cycler)	BIO-RAD	9	17.5	17.5	9	14.5		BENCH TOP	
Kirk Jensen	00780	plate reader	BioTek	11.25	12.25	16.5	7.5	7.5		BENCH TOP	
Kirk Jensen	00775	rocker	VWR	14	13			10		BENCH TOP	
Kirk Jensen	Needs sticker	shaker	Fischer Scientific	10.5	17			3.75		BENCH TOP	
Kirk Jensen	00786	Standard Analogue Shaker	VWR	11	16.12			3.4		BENCH TOP	
Kirk Jensen	00773	stir plate	Fisher Scientific	8.5	12.5			3.9		BENCH TOP	
Kirk Jensen	00768	tabletop centrifuge (bacteria bench)	Eppendorf	9.25	12.5			8.75	17	BENCH TOP	
Kirk Jensen	00769	tabletop centrifuge (RNA bench)	Eppendorf	9	12		4.5	8.5	16.7	BENCH TOP	
Kirk Jensen	00784	TC Centrifuge	Eppendorf	27.5	25		5.5	13	33	BENCH TOP	
Kirk Jensen	00758	TC hood 1	Labconco	55	29.5	29.5	2	91		FLOOR	
Kirk Jensen	00759	TC hood 2	Labconco	55	29.5	29.5	2	91		FLOOR	
Kirk Jensen	00760	TC hood 3	Labconco	55	29.5	29.5	2	91		FLOOR	
Kirk Jensen	00778	TC microscope	Nikon	9	14		14	19		BENCH TOP	
Kirk Jensen	00777	TC water bath	Fisher Scientific	13.75	10	14.25		12.5	15	BENCH TOP	
Kirk Jensen	00776	transblot	Bio Rad	9	9.5			8		BENCH TOP	
Linda Hirst	01455	AC source	Chroma ATE INC	19	23			5.5		BENCH TOP	
Linda Hirst	01468	Balance	Sartorius	8.5	13.5	18.5		14		BENCH TOP	
Linda Hirst	01467	PC Desktop (Monitor + Motherboard + Keyboard + Mouse)	Alera	36	18	36		78		FLOOR	
Linda Hirst	01496	Centrifuge (Sorvall Legend RT)	ThermoScientific	29	26.5			13.5	34.5	BENCH TOP	

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Linda Hirst	01452	Control units of heating stage	LINKAM	10.5	17			4		BENCH TOP	
Linda Hirst	01451	Control units of heating stage	INSTEC	11	16			5.75		BENCH TOP	
Linda Hirst	02177	Desicator		13	13			13		BENCH TOP	
Linda Hirst	01499	Flammable Cabinet (waste, red)	Justrite	23.5	18.5	39	2	65.5		FLOOR	
Linda Hirst	01500	Flammables Cabinet (Yellow)	Justrite	23.5	18	39	2	65		FLOOR	
Linda Hirst	01454	Function generator	BK PRECISION	10.5	16			4	10	BENCH TOP	
Linda Hirst	01463	Function generator	AGILENT	10.5	18			4.25	10.75	BENCH TOP	
Linda Hirst	01491	Gelbox (Bio-rad mini-protean tetra system)	Bio-rad	7	5.5			9		BENCH TOP	This item contains a lid, two gel holders and a buffer dam
Linda Hirst	01461	Heating stage	LINKAM	7 (with window ope	7	14		1		BENCH TOP	
Linda Hirst	01460	Heating stage	INSTEC INC	8	6.25			1		BENCH TOP	
Linda Hirst	01477	Langmuir	NIMA	27	8.5	18				BENCH TOP	This item has two parts and the dimensions are for the parts next to each other. And also it's connected to
Linda Hirst	01469	Liquid nitrogen dewer	Taylor-Wharton	19.5	19.5			26	34.5	FLOOR	This item contains a lid
Linda Hirst	01470	MQ water	Thermo Scientific	22.5	18			20		WALL MOUNTED	
Linda Hirst	01464	Multimeter	FLUKE	10.5	17			4.5	10	BENCH TOP	
Linda Hirst	01473	Oven 1	Fisher	18	19	35		32		BENCH TOP	
Linda Hirst	01472	Oven 2	VWR	22	22	40.5		27		BENCH TOP	
Linda Hirst	01490	pH Meter	ThermoScientific	7	8			5		BENCH TOP	This item comes with pH meter and two tube racks with 4 falcon tubes
Linda Hirst	01491	PowerPac	Fisher Scientrific	5.5	10			5		BENCH TOP	
Linda Hirst	01481	Scanner	Epson	12	20	22				BENCH TOP	Connected to the computer
Linda Hirst	01495	Shaker	VWR	26	27.25	47.5	6	41.5		FLOOR	
Linda Hirst	01479	Sonicator	Branson	9.5	12	11.5				BENCH TOP	
Linda Hirst	01480	Sonicator	VWR	8	8.8	9.5				BENCH TOP	
Linda Hirst	01482	Spectrometer	Molecular Devices	23	16.5	16.5	7	9	14	BENCH TOP	connected to computer
Linda Hirst	01474	Spin coater	Laurell	12	9	17		12		BENCH TOP	This item is the fume hood currently and it needs vacuum
Linda Hirst	01494	Tabletop centrifuge (minispin plus)	eppendorf	9	13		12	7	10.5	BENCH TOP	

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Linda Hirst	01478	Tip sonicator	Misonix	12	12	18				BENCH TOP	This item has two parts and dimensions are for the parts next to each other, tip sonicator has a stage
Linda Hirst	01497	Ultracentrifuge	Beckman Coulter	29	24.5			16.5		BENCH TOP	
Linda Hirst	01471	Vacuum oven and vacuum	Fisher Scientific	18.5	19.5	32		23		BENCH TOP	Comes with vacuum pump of size 7x8x11 (wxdxh in inches) from GAST, model DOA-P704-AA,
Linda Hirst	01492	Waterbath (Thelco)	Precision Scientific Co	6.5	7		12	9.5	11	BENCH TOP	
Linda Hirst	01476	White board		120	3.5			48		WALL MOUNTED	
Maria Zoghbi	00285	Biological Safety Cabinet 1300 Series A2	Thermo Scientific	52	32			95		FLOOR	
Maria Zoghbi	00257	BryteBox	Photon Technology International								Must be connect to fluorometer
Maria Zoghbi	00267	Centrifuge	Eppendorf	8	14			11	18	BENCH TOP	
Maria Zoghbi	00266	Centrifuge	Fischer Scientific	12	19			13	22	BENCH TOP	
Maria Zoghbi	00283	Chromatography Refrigerator	Atosa	55	32	58		84		FLOOR	
Maria Zoghbi	00264	Computer Interface	Photon Technology International							BENCH TOP	Must be connect to fluorometer (tag 00262)
Maria Zoghbi	00263	Control Module	Photon Technology International							BENCH TOP	Must be connect to fluorometer (tag 00262)
Maria Zoghbi	00293	Dry Bath	Fisher								
Maria Zoghbi	00261	EasyLife L		18	12			9	16		
Maria Zoghbi	00277	Floor Centrifuge	Thermo Scientific	23	30			30	55	FLOOR	
Maria Zoghbi	00278	Floor Untracentrifuge	Thermo Scientific	32	36			34		FLOOR	Thermo Scientific must service centrifuge after it is moved
Maria Zoghbi	00256	Fluorometer	Photon Technology Interr	36	32			13	25	BENCH TOP	
Maria Zoghbi	00255	Fraction collector	BioRad	13	19			15		BENCH TOP	Must be connected to NGC System (tag 00281) on stainless steal table
Maria Zoghbi	00275	Gradient Pump	Bio Rad								
Maria Zoghbi	00258	Lamp Power Supply	Photon Technology International								Must be connect to fluorometer
Maria Zoghbi	00262	Lifetime Fluorometer	Photon Technology Interr	27	19			13	25	BENCH TOP	
Maria Zoghbi	00272	Light Centrifuge	Bioexpress								
Maria Zoghbi	00289	Light Microscope	Thermo Scientific							BENCH TOP	Must be placed on wooden table tag 00290
Maria Zoghbi	00265	Microplate reader	BMG Labtech	14	20			7		BENCH TOP	
Maria Zoghbi	00259	Motor Driver	Photon Technology International								Must be connect to fluorometer

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Maria Zoghbi	00281	NGC Chromatography System	BioRad	24	26			21		BENCH TOP	Must be placed on top of stainless steal table (tag 00282) and next to chromatography refrigerator (tag
Maria Zoghbi	00298	pH meter	Denver Instrument								
Maria Zoghbi	00295	pH meter holder									
Maria Zoghbi	00292	Pump	Welch								
Maria Zoghbi	00299	Rotator	Fisher Scientific								
Maria Zoghbi	00252	Shaker's rack	ShelLab	26	34			47			
Maria Zoghbi	00300	Sonicator	Branson								
Maria Zoghbi	00282	Stainless steal table		60	30			36		FLOOR	
Maria Zoghbi	00297	Stir plate	Fisher Scientific								
Maria Zoghbi	00296	Stir Plate	VWR								
Maria Zoghbi	00288	Storage cabinet		27	19	33		75		FLOOR	
Maria Zoghbi	00269	Transilluminator	Fischer Scientific	13	22			5		BENCH TOP	
Maria Zoghbi	00271	Vortex	Fisher Scientific								
Maria Zoghbi	00273	Vortex	VWR								
Maria Zoghbi	00274	Vortex	VWR								
Maria Zoghbi	00291	Vortex	VWR								
Maria Zoghbi	00268	Water bath	Poly Science	15	12			14	15	BENCH TOP	
Maria Zoghbi	00260	Water circulator	HAAKE G	15	16			16		BENCH TOP	
Maria Zoghbi	00294	Weight Balance	OHAUS								
Maria Zoghbi	00270	Weight Balance	Sartorius								
Maria Zoghbi	00290	Wooden table		48	24			36		FLOOR	
Maria Zoghbi	00253	Wooden table		48	24			36		FLOOR	
Maria Zoghbi	00254	Wooden table		48	24			36		FLOOR	
Michael Scheibner	01549	3D printer	Snapmaker	14.5	14.5	25		14.5		BENCH TOP	
Michael Scheibner	01517	621 Wavelength Meter	Bristol Instruments							BENCH TOP	

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Michael Scheibner	01510	Atomic Force Microscope Stand	Attocube	18	18			48		BENCH TOP	01510, 01511, 01512, 01513 must be adjacent, 01514 can be no more than ~10 ft away
Michael Scheibner	01514	Attocube: Cryomech helium compressor and isolation box	Attocube	36	25			36		FLOOR	building water cooling loop required
Michael Scheibner	01511	Attocube: Cryostation chamber and magnet	Attocube	24	24			52	108	FLOOR	Requires total vertical clearance of 108" to remove the sample stack
Michael Scheibner	01513	Attocube: Rack mount control equipment	Attocube							FLOOR	
Michael Scheibner	01512	Attocube: Turbopump and control station	Attocube	18	18			52		FLOOR	
Michael Scheibner		Beamlok Argon Ion Laser Head	Spectra Physics							BENCH TOP	
Michael Scheibner		Beamlok Power Supply	Spectra Physics							FLOOR	building water cooling loop required
Michael Scheibner	01538	CCD Camera	Princeton Instruments	5.5	11.5			13		BENCH TOP	
Michael Scheibner	01529	Cryo Industries Coldhead platform		72	24			5		FLOOR	
Michael Scheibner	01509	Cryostation	Cryo Industries							BENCH TOP	
Michael Scheibner	01530	Cryostation Coldhead	Cryo Industries	18	18			34		BENCH TOP	mounted on coldhead platform; various cabling and connections to other parts required
Michael Scheibner	01543	Detector Controller	Princeton Instruments	17	16			7		BENCH TOP	
Michael Scheibner	01504	Drill Press	Porter Cable	7	17.5			28.5	32.5	BENCH TOP	
Michael Scheibner	01500	Grinder	Ryobi	11.5	13			14.5		BENCH TOP	
Michael Scheibner	01520	Horiba JY Spectrometer	HORIBA							BENCH TOP	
Michael Scheibner	01521	InGaAs camera & box	Princeton Instruments							BENCH TOP	
Michael Scheibner	01507	Millennia Power Control	Spectra Physics							BENCH TOP	
Michael Scheibner		Millennia Power Control	Spectra Physics							FLOOR	
Michael Scheibner	01508	Millennia Pro Laser Head	Spectra Physics					68		CART	rackmount
Michael Scheibner		Millennia Pro Laser Head	Spectra Physics							BENCH TOP	
Michael Scheibner	01501	Milling Machine	Grizzly Industrial	20	18.5			32		BENCH TOP	
Michael Scheibner	01505	Mini Lathe	Central Machinery	23.5	8.5			10		BENCH TOP	
Michael Scheibner	01547	Monochromator	Action Research Corp	9	9			7.5		BENCH TOP	
Michael Scheibner		Montana Control Unit	Montana Instruments	9	18			20		FLOOR	
Michael Scheibner		Montana Helium Compressor	Montana Instruments	14	24			25		FLOOR	

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Michael Scheibner	01506	Neslab KMC 100	Thermo Fisher Scientific							BENCH TOP	
Michael Scheibner	01541	PEM Controller	HINDS Instruments	8.5	13			4.5		BENCH TOP	
Michael Scheibner	01542	PEM Controller	HINDS Instruments	8.5	13			4.5		BENCH TOP	
Michael Scheibner	01522	Pump vacuum & stand	PFEIFFER							CART	
Michael Scheibner	01531	Pylon Camera	Pylon							BENCH TOP	
Michael Scheibner	01539	Quantix Camera	Roper Scientific Inc	6	9			9		BENCH TOP	
Michael Scheibner	01540	Quantix Camera	Roper Scientific Inc	6	9			9		BENCH TOP	
Michael Scheibner	01526	Spec10 Camera	Princeton Instruments							BENCH TOP	
Michael Scheibner	01527	SpectraPro 500i	Action Research Corp							BENCH TOP	
Michael Scheibner	01548	Spectrometer	Action Research Corp	18	8.25			7		BENCH TOP	
Michael Scheibner	01546	Spectrum Analyzer	Thor Labs	6	13			3		BENCH TOP	
Michael Scheibner	01544	Spectrum One	ISA	11	9.75			6		BENCH TOP	
Michael Scheibner	01518	Spectrum One Camera								BENCH TOP	
Michael Scheibner	01535	ST Series Smart Table w/ ATS Shelving system	Newport Optics	96	48			68		FLOOR	30 PSI building compressed air supply required; need to leave overhead room for shelf
Michael Scheibner	01523	Temperature Controller	Lake Shore							FLOOR	
Michael Scheibner	01533	TMC Optical Table	Technical Manufacturing	96	48			40		FLOOR	30 PSI building compressed air supply required; need to leave overhead room for shelf
Michael Scheibner	01534	TMC Optical Table	Technical Manufacturing	96	48			40		FLOOR	30 PSI building compressed air supply required; need to leave overhead room for shelf
Michael Scheibner	01503	Toolbox (black)	Craftsman	26	12	22.5		15.5	25.5	FLOOR	
Michael Scheibner	01502	Toolbox (red)	Waterploo Professional	26.5	18	34		40.5		FLOOR	
Michael Scheibner	01525	Toptica Controller #1	Toptica Photonics							CART	rackmount
Michael Scheibner	01524	Toptica Controller #2	Toptica Photonics							CART	rackmount
Michael Scheibner	01515	Toptica DL Pro Laser Head	Toptica Photonics							BENCH TOP	
Michael Scheibner	01516	Toptica DL Pro Laser Head	Toptica Photonics							BENCH TOP	
Michael Scheibner	01519	TRIAX 320 Spectrometer	TRIAX SERIES							BENCH TOP	
Michael Scheibner	01545	Triple Grating Controller (for 01548)	Action Research Corp	8.5	8.5			4.75		BENCH TOP	

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Michael Scheibner	01532	TriVista Triple Spectrometer	Princeton Instruments	42	36			13		BENCH TOP	Heavy & delicate; Princeton instruments must advise on move and calibrate after reinstallation
Michael Scheibner		Water Chiller KMC100	Neslab							CART	rackmount
Michael Scheibner		Water Chiller KMC100	Neslab							CART	rackmount
Sayantani Ghosh	00302	Cabinet	Steelcase	30	18	30		65.5		FLOOR	
Sayantani Ghosh	00301	Cabinet	Steelcase	30	18	30		65.5		FLOOR	
Sayantani Ghosh	00304	Cabinet	Steelcase	42	18	30		52		FLOOR	
Sayantani Ghosh	00305	CABINET	STEELCASE	30	18			63		FLOOR	
Sayantani Ghosh	00309	Chiller	Coherent	8	11			14		FLOOR	
Sayantani Ghosh	02079	chiller	Thermocube	8	12			12		FLOOR	dedicated power
Sayantani Ghosh	00342	chiller for laser	Thermocube	11	12			12		FLOOR	
Sayantani Ghosh	02085	Compressor	Advanced reserach Syste	24	24			24		FLOOR	dedicated power
Sayantani Ghosh	00349	Dessicator	Plas Labs	12	12	24		12		BENCH TOP	Holds research samples. Highly valuable.
Sayantani Ghosh	00348	Dessicator	Plas Labs	12	12	24		12		BENCH TOP	Holds research samples. Highly valuable.
Sayantani Ghosh	02076	Digital multimeter	Agilent	8	10			12		WALL MOUNTED	
Sayantani Ghosh	00306	electronics	NKT Photonics	18	15			3		UNDER COUNTER	
Sayantani Ghosh	00322	electronics	Signal Recovery	14	16			4		WALL MOUNTED	
Sayantani Ghosh	00324	electronics	Signal Recovery	14	16			4		WALL MOUNTED	
Sayantani Ghosh	00335	electronics	Newport	17	14			4		UNDER COUNTER	
Sayantani Ghosh	00325	flammable cabinet	justrite	23.5	18.5	30	2	35.5		FLOOR	Locate near fume hood
Sayantani Ghosh	00347	glove chamber	Bel-Art	24	24			22		BENCH TOP	
Sayantani Ghosh	00312	Laser	Coherent	44	15			11		BENCH TOP	this system needs a dedicated power point. Will be located in Autocube space
Sayantani Ghosh	00310	Laser	Coherent	19	7			7		BENCH TOP	this system needs a dedicated power point. This will be located in autocube space.
Sayantani Ghosh	00307	laser	NKT Photonics	18	15			13		BENCH TOP	
Sayantani Ghosh	00303	laser	NKT Photonics	18	15			10		UNDER COUNTER	
Sayantani Ghosh	00338	laser	Coherent	15	44			8		BENCH TOP	

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Sayantani Ghosh	00337	laser	Cohrerent	15	44			8		BENCH TOP	
Sayantani Ghosh	00341	laser	Coherent	14	43			8		BENCH TOP	NEEDS DEDICATED POWER
Sayantani Ghosh	00340	laser	Coherent	8	18			7		BENCH TOP	NEEDS DEDICATED POWER
Sayantani Ghosh	02075	LN2 dewar	International cryogenics	24	24			48		FLOOR	
Sayantani Ghosh	00323	magnet	GMW/Buckley system	12	8			9		BENCH TOP	
Sayantani Ghosh	02074	metal step ladder	Cotterman	24	36			36		FLOOR	
Sayantani Ghosh	00326	METAL STORAGE CASE	STEELCASE	30	15			63		FLOOR	
Sayantani Ghosh	02081	motion controller	newport	17	14			4		UNDER COUNTER	
Sayantani Ghosh	02082	motion controller	Newport	12	12			12		BENCH TOP	
Sayantani Ghosh	00320	optical table with legs	Kinetic systems	48	96		36	80		FLOOR	
Sayantani Ghosh	00330	optical table with legs	Melles Griot	48	96		36	80		FLOOR	
Sayantani Ghosh	00314	optical table with legs	Melles Griot	48	96		36	80		FLOOR	
Sayantani Ghosh	00318	optical table with legs	Kinetic systems	48	96		36	80		FLOOR	
Sayantani Ghosh	00339	optical table with legs	Kinetic systems	48	96		36	80		FLOOR	
Sayantani Ghosh	00315	OPTICS DRAWER		30	24	35		32		FLOOR	
Sayantani Ghosh	00316	OPTICS DRAWER		30	24	35		32		FLOOR	
Sayantani Ghosh	00329	photon counter	Coherent	10	12			11		BENCH TOP	
Sayantani Ghosh	00334	photon counting system	Picoquant	10	13			6		BENCH TOP	
Sayantani Ghosh	00344	power supply	Kepco	18	21			6		UNDER COUNTER	
Sayantani Ghosh	00343	power supply for laser	Cohrerent	18	19			11		FLOOR	
Sayantani Ghosh	00328	power supply for laser	Coherent	17	14			4		FLOOR	
Sayantani Ghosh	00327	power supply for laser	Coherent	17	14			4		FLOOR	
Sayantani Ghosh	00321	power supply for laser	Coherent	17	14			4		FLOOR	dedicated power
Sayantani Ghosh	00311	power supply for laser	Coherent	17	19			7		FLOOR	dedicated power
Sayantani Ghosh	00317	probe station	signatone	48	21			28		BENCH TOP	

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Sayantani Ghosh		SPECTROMETER	PRINCETON INSTRUME	17	21			17		BENCH TOP	
Sayantani Ghosh	00313	spectrometer	PRINCETON INSTRUME	13	21			8		BENCH TOP	
Sayantani Ghosh	02084	Spectrometer	Princeton instruments	18	24			8		BENCH TOP	
Sayantani Ghosh	00333	Spectromter	Perkin Elmer	25	22			11		BENCH TOP	
Sayantani Ghosh	02078	Steel equipment rack	intermetro industries	48	24			72		FLOOR	
Sayantani Ghosh	02078	Steel equipment rack	intermetro industries	48	24			72		FLOOR	
Sayantani Ghosh	00336	table top for tools drawers	Stanley Vidmar	90	37			30.5		BENCH TOP	Locate in dry lab
Sayantani Ghosh	00331	TALL CABINET	SANDUSKY	36	24	36		78		FLOOR	
Sayantani Ghosh	00332	TALL CABINET	SANDUSKY	36	24	36		78		FLOOR	
Sayantani Ghosh	02083	temperature controller	Lakeshore	8	10			8		WALL MOUNTED	
Sayantani Ghosh	00345	tools drawer	Stanley Vidmar	30	37	50		30.5		FLOOR	
Sayantani Ghosh	00346	tools drawer	Stanley Vidmar	30	37	50		30.5		FLOOR	
Sayantani Ghosh	00319	Vacuum pump	Varian	27	25			42		FLOOR	
Sayantani Ghosh	02077	waveform generator	Agilent	8	10			12		WALL MOUNTED	
Sayantani Ghosh	02072	white coffee table	Ikea	24	36			24		FLOOR	
Sayantani Ghosh	02073	white coffee table	Ikea	24	24			24		FLOOR	
Shahar Sukenik	00074	CD Spectrometer	Jasco	48	23			15		BENCH TOP	
Shahar Sukenik	00068	Centrifuge	Eppendorf	13	23			11	22	BENCH TOP	
Shahar Sukenik	00093	Centrifuge	Beckman Coulter	26	27			16	40	FLOOR	03/05/20 - S.Sukenik considering whether this item should move. Due to age it is being replaced with new
Shahar Sukenik	00095	Centrifuge	Eppendorf	12	15			10	21	BENCH TOP	
Shahar Sukenik	01945	CENTRIFUGE (REPLACES 00093)	EPPENDORF							BENCH TOP	
Shahar Sukenik	00076	Computer	Acer	24	9			19		BENCH TOP	
Shahar Sukenik	00088	Computer	Dell								
Shahar Sukenik	01952	Computer	HP								Associated with 01948
Shahar Sukenik	01960	Computer	HP								Associated with 01956
Shahar Sukenik	00091	Computer (associated with 09143)	Acer	24	9			19		BENCH TOP	Associated with AKTA Go
Shahar Sukenik	00052	Computer accompanying Boimek 3000 (asset tag 00051)	IBM/Lenovo								

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Shahar Sukenik	00059	Computer accompanying microplate reader (item 00058)	Acer							BENCH TOP	
Shahar Sukenik	01954	Computer Monitor									Associated with 01960
Shahar Sukenik	01959	Computer Monitor	HP								Associated with 01952
Shahar Sukenik	00077	Constant Temperature Tank	Premiere	17	7			8		BENCH TOP	
Shahar Sukenik	00078	Digital Heatblock	VWR	8	9			4		BENCH TOP	
Shahar Sukenik	00056	File Cabinet		30	18			27.5		FLOOR	
Shahar Sukenik	00086	Fractionator	Amersham								
Shahar Sukenik	01944	Fractionator (associated with 01943)	GE							BENCH TOP	
Shahar Sukenik	00098	Hood	Thermo	52	31			90		FLOOR	
Shahar Sukenik	01943	HPLC	GE	13	17			19		BENCH TOP	
Shahar Sukenik	00085	HPLC System	Amersham	16	16			21			
Shahar Sukenik	01942	Lab Cart								CART	
Shahar Sukenik	00060	Label maker	Dymo	3	5			6		BENCH TOP	
Shahar Sukenik	00051	Laboratory Automation Workstation	Beckman Coulter	44	20			26.5		BENCH TOP	
Shahar Sukenik	00075	Liquid Cooling System	EXOS	9	19			4		BENCH TOP	
Shahar Sukenik	00090	Liquid Handling Robot	Opentrons	25	23			26		BENCH TOP	
Shahar Sukenik	00065	Magnetic stirrer	VWR	10	15			5		BENCH TOP	
Shahar Sukenik	00082	Magnetic stirrer	VWR	5	7			1		BENCH TOP	
Shahar Sukenik	00063	Magnetic stirrer/heater	Thermo	8	14			4.5		BENCH TOP	
Shahar Sukenik	00058	Microplate reader	BMG Labtech	17.5	20	24.5	6	15	27	BENCH TOP	
Shahar Sukenik	01956	Microscope	Zeiss								
Shahar Sukenik	01948	Microscope (including peripherals)	Zeiss							BENCH TOP	Includes TempModule S, Duolink, connected Hamamatsu cameras, Heating Unit XL S, on table 01946
Shahar Sukenik	01950	Microscope Signal Distribution Box	Zeiss								Associated with 01948
Shahar Sukenik	01955	Microscope Table	ThorLabs								Associated with 01956
Shahar Sukenik	01946	Microscope Table (associated with 01948)	ThorLabs								Associated with 01948

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Shahar Sukenik	00073	Microwave Oven	Danby	17	12	25		10		BENCH TOP	
Shahar Sukenik	00062	Mini centrifuge	Thermo	5	6			5		BENCH TOP	
Shahar Sukenik	00061	Mini vortexer	VWR	5.5	8			6.5		BENCH TOP	
Shahar Sukenik	00057	None									
Shahar Sukenik	00072	Orbital Shaker	Corning	12	14			6		BENCH TOP	
Shahar Sukenik	00064	pH meter	Mettler Toledo	7	8			3		BENCH TOP	Paired with stand (asset tag 01941)
Shahar Sukenik	01941	pH meter stand	Mettler Toledo	10	12			17			Paired with pH meter (asset tag 00064)
Shahar Sukenik	00080	Power Supply	BioRad	8	10			3		BENCH TOP	
Shahar Sukenik	00081	Power Supply	BioRad	10	12			3		BENCH TOP	
Shahar Sukenik	01949	Pressure Controller	ElveFlow								Associated with 01948
Shahar Sukenik	00055	Printer	Canon	17	16	26	4	11		BENCH TOP	
Shahar Sukenik	00066	Scale	Mettler Toledo	8	10			4		BENCH TOP	
Shahar Sukenik	00067	Scale	Mettler Toledo	8	18			12		BENCH TOP	
Shahar Sukenik	00084	Shelf	N/A	36	15			72		FLOOR	
Shahar Sukenik	00094	Shelf	N/A	36	15			72		FLOOR	
Shahar Sukenik	00087	Stirrer	VWR								
Shahar Sukenik	01957	Storage Unit		33	13			77			
Shahar Sukenik	01951	Table									
Shahar Sukenik	01953	Table									
Shahar Sukenik	00099	Table (stand for centrifuge)	N/A								
Shahar Sukenik	01947	Temperature Controller	ALA Scientific Instruments								Associated with 01948
Shahar Sukenik	00070	UV-Visible spectrophotometer	Thermo Scientific	15	14			8	15	BENCH TOP	
Shahar Sukenik	00071	Vacuum Pump	Gardner Denver / Welch	15	20			18		UNDER COUNTER	
Shahar Sukenik	00069	Vortex mixer	Thermo Scientific	6	8			4		BENCH TOP	
Shahar Sukenik	00097	Water Bath	Thermo Scientific	16	16			15		BENCH TOP	

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Shahar Sukenik	01958	Microscope	Zeiss								
Shilpa Khatri	00489	35 Gallon Water Tank		28	28			48		FLOOR	
Shilpa Khatri	00490	35 Gallon Water Tank		28	28			48		FLOOR	
Shilpa Khatri	00491	35 Gallon Water Tank		28	28			48		FLOOR	
Shilpa Khatri	00456	Acrylic Tank		12	12			26.5		CART	
Shilpa Khatri	00451	Acrylic Tank on Cart		32.5	40.5			69		FLOOR	
Shilpa Khatri	00493	Microwave		15	6.5	12		19		BENCH TOP	
Shilpa Khatri	00455	Camera Case	Phantom	21	26	41		15	35	FLOOR	
Shilpa Khatri	00452	Camera Case	Phantom	21	26	41		15	35	FLOOR	
Shilpa Khatri	00458	Cart (Black)		18	39.5			33.5		FLOOR	
Shilpa Khatri	00476	Density Meter	Anton Paar	14	20		6	10		BENCH TOP	Requires re-calibration
Shilpa Khatri	00480	Density Meter	Anton Paar	6	14			1		UNDER COUNTER	
Shilpa Khatri	00479	Density Meter Case (Red)	Anton Paar	12	10			3		UNDER COUNTER	
Shilpa Khatri	00474	Equipments Cart (Black)	Waterloo	26.5	18.5	34		33		FLOOR	
Shilpa Khatri	00482	Equipments Cart (Black)	Waterloo	26.5	18.5	34		33		FLOOR	
Shilpa Khatri	00483	Equipments Cart (Black)	Waterloo	26.5	18.5	34		33		FLOOR	
Shilpa Khatri	00484	Equipments Cart (Black)	Waterloo	26.5	18.5	34		33		FLOOR	
Shilpa Khatri	00485	Equipments Cart (Black)	Waterloo	26.5	18.5	34		33		FLOOR	
Shilpa Khatri	00488	External Power Supply	APC	19	19		6	3.5		BENCH TOP	
Shilpa Khatri	00495	Green Emergency Spill Response Kit		25	16			17	20	FLOOR	
Shilpa Khatri	00492	Grey Laptop	Dell	14.5	9.5	15		1	9.5	BENCH TOP	
Shilpa Khatri	00454	High-speed Camera	Phantom	8	11	14	24	11	11	CART	
Shilpa Khatri	00453	High-speed Camera	Phantom	8	11	14	24	11	11	CART	
Shilpa Khatri	00466	Laser Assembly		14	10			6		BENCH TOP	
Shilpa Khatri	00459	Laser Barrier	Kentek	73	28			82		FLOOR	

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Shilpa Khatri	00460	Laser Barrier	Kentek	73	28			82		FLOOR	
Shilpa Khatri	00461	Laser Barrier	Kentek	73	28			82		FLOOR	
Shilpa Khatri	00462	Laser Barrier	Kentek	73	28			82		FLOOR	
Shilpa Khatri	00475	Microviscometer	Anton Paar	12	16		6	9.5		BENCH TOP	Requires re-calibration
Shilpa Khatri	00481	Optical Refractometer (in white case)	Fisher Scientific	8.5	7			2		UNDER COUNTER	
Shilpa Khatri	00471	Peristaltic Pump (Red)	New Era Pump Systems	8	8		4	6		BENCH TOP	
Shilpa Khatri	00472	Peristaltic Pump (Red)	New Era Pump Systems	8	8		4	6		BENCH TOP	
Shilpa Khatri	00473	Peristaltic Pump (Red)	New Era Pump Systems	8	8		4	6		BENCH TOP	
Shilpa Khatri	00487	Server Rack	Synology	19	28		6	3.5		BENCH TOP	
Shilpa Khatri	00457	Steel Table with Circular Cutout		18.5	24.8			30		FLOOR	
Shilpa Khatri	00463	Tripod	Manfrotto	24	24			60		FLOOR	
Shilpa Khatri	00464	Tripod	Manfrotto	24	24			60		FLOOR	
Shilpa Khatri	00465	Tripod	Manfrotto	24	24			60		FLOOR	
Shilpa Khatri	00467	Tripod	Manfrotto	24	24			60		FLOOR	
Shilpa Khatri	00494	Tripod	Amazon	24	24			46		FLOOR	
Shilpa Khatri	00477	Viscometry Case (White)	Anton Paar	16	15			4		UNDER COUNTER	
Shilpa Khatri	00478	Viscometry Case (White)	Anton Paar	16	15			4		UNDER COUNTER	
Shilpa Khatri	00486	Weigh Scale	ULINE	10	10.5			11		BENCH TOP	
SOE	00555	2800 UV/VIS Spetrophotometer	Unico	16	19	19	21	9	18	BENCH TOP	
SOE	00570	Beige Cabinet	Haworth	36	18.5	34	4	63	63	FLOOR	
SOE	00568	Okolab Cage	Eagle Manufacturing Cor	35	24	38	1	34.5	34.5	FLOOR	
SOE	00551	Centrifuge	Thermo FISHER SCIENT	18	26.5	26.5	4	12 7/16		BENCH TOP	
SOE	00556	Centrifuge	Thermo Scientific	18	27	27	18	12	26	BENCH TOP	
SOE	00560	Freezone	Labcocon	33	29	29	33	36	36	FLOOR	800-821-5525
SOE	00565	Furnace	Barnstead Thermolylne	13	19.5	23	13	25	25	BENCH TOP	

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SOE	00573	Grey Cabinet	Haworth	30	18	28	3	63	63	FLOOR	
SOE	00571	Light Grey Cabinet	Steelcase	42	18	36	3	41	41	FLOOR	
SOE	00553	Microscope Cabinet	None	48 (door open: 87)	25.25	68 1/8		40 5/8	40 5/8	FLOOR	12 covered microscopes in cabinet
SOE	00564	Microscope Cabinet	None	48 (door open: 87)	25.25	68 1/8		40 5/8	40 5/8	FLOOR	Includes 12 microscopes.
SOE	00566	Silver Moving Shelf	Shelftech System	47.5	18	18	1	79	79	FLOOR	Please move with all contents
SOE	00567	Silver Moving Shelf	Shelftech System	47.5	18	18	1	79	79	FLOOR	Please move with all contents
SOE	00554	Spectrofluorophotometer	Shimadzu	20	16	16	20	10	10	BENCH TOP	
SOE	00559	Stoppering Tray Dryer	Labconco	32	11	39	32	27	27	BENCH TOP	800-821-5525
SOE	00558	Thermo Scientific Biological Safety Cabinet	Thermo Scientific	64	31	61	64	86	86	FLOOR	800-877-7742
SOE	00557	Thermo Scientific Biological Safety Cabinets	Thermo Scientific	64	31	61	64	86	86	FLOOR	800-877-7742
SOE	00569	Yellow Flammable Cabinet	Eagle Manufacturing Cor	24	19	39	6	36	36	FLOOR	
Tao Ye	1893	Acid Cabinet	SciNatCo	31	20	36	0	36	36	FLOOR	
Tao Ye	1863	AFM	NT-MDT	14	10	10	10	27	27	BENCH TOP	
Tao Ye	703	AFM	Agilent	11	11	11	11	23	23	BENCH TOP	
Tao Ye		AFM									
Tao Ye	702	AFM cabinet		19.5	19	19	19	37	37	BENCH TOP	
Tao Ye	706	AFM controller	Agilent	13	8	8	11	2	4	BENCH TOP	
Tao Ye	708	AFM power source	Agilent	20.5	6	6	6	19.5	19.5	FLOOR	
Tao Ye	1889	Balance	Mettler Toledo	7.5	11.5	15.5	11.5	12.5	12.5	BENCH TOP	
Tao Ye	1866	Cabinet (right)	NT-MDT	19	10	10	11.5	7.5	7.5	BENCH TOP	
Tao Ye	718	Shelf (Left)	RHK technology	18.5	16	16	16	10.5	10.5	BENCH TOP	
Tao Ye	1857	CCD	Evolve	6.5	5.5	5.5	5.5	5.5	5.5	BENCH TOP	
Tao Ye	1884	Centrifuge	Eppendorf	8.5	12	12	12.5	8.5	16	BENCH TOP	
Tao Ye	1899	Computer	Dell	6.5	19	19	19	17.5		BENCH TOP	
Tao Ye	710	Computer	Dell	6.5	17.5	17.5	17.5	18	18	FLOOR	

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Tao Ye	711	Computer	Dell	6.5	17.5	17.5	17.5	18	18	FLOOR	
Tao Ye	720	Computer	Dell	7	18.5	18.5	18.5	16.5	16.5	FLOOR	
Tao Ye	1892	Desicator	Secador	13.5	16.5	29	17	16.5	16.5	BENCH TOP	
Tao Ye	714	Dialysis	Ismatec	3.75	7.5	7.5	7.5	5.5	5.5	BENCH TOP	
Tao Ye	1855	Driver	Olympus	3.5	10.5	10.5	11.5	7.5	7.5	BENCH TOP	
Tao Ye	1872	Flowmeter	Harrick plasma	10.25	8	12	9	8.25	8.25	BENCH TOP	
Tao Ye	716	FT-IR	Thermo Scientific	18.5	22	22	22	11	24.5	BENCH TOP	
Tao Ye	715	Ft-ir purge gas generator	Parker	19	7	7	7	13	13	FLOOR	
Tao Ye	707	Function generator	Tektronix	13	6	6	6	6	6	BENCH TOP	
Tao Ye	1870	Furnace	Barnstead	13.5	17	20	18	20	22.5	BENCH TOP	
Tao Ye	1877	Gel Imager	Labnet	13.5	12.5	23.5	14.5	23.25	23.25	BENCH TOP	
Tao Ye	1881	Glove Box	MBraun	75	32	58	42	76	76	FLOOR	
Tao Ye	1885	Hot Plate	VWR	8	12	13	12	4	4	BENCH TOP	
Tao Ye	1882	Hot Plate	Fisherbrand	8	14	4	15	4.5	4.5	BENCH TOP	
Tao Ye	1878	Hot plate	Fisher Scientific	7.5	10.5	10.5	10.5	3.5	3.5	BENCH TOP	
Tao Ye	1858	Inverted microscope	Olympus	10	33	33	33	28.5	28.5	BENCH TOP	
Tao Ye	705	Laser	Agilent	9	8	8	9	4.5	4.5	BENCH TOP	
Tao Ye	1865	Marble Table		35	24	24	24	31.5	31.5	FLOOR	
Tao Ye	701	Marble Table		35	24	24	24	31.5	31.5	FLOOR	
Tao Ye	1897	Microwave	Sharp	18	13	27	14	11	11	BENCH TOP	
Tao Ye	1861	Modulamp	Schott	7.5	8	10	10	4.5	4.5	BENCH TOP	
Tao Ye	1868	Monitor	Asus	21.5	8	8	8	15	15	BENCH TOP	
Tao Ye	1867	Monitor	Dell	16	9	9	9	15	23	BENCH TOP	
Tao Ye	1862	Monitor	Asus	21.5	8.5	8.5	8.5	15.5	15.5	BENCH TOP	
Tao Ye	1859	Monitor	Dell	16	9	9	9	20	20	BENCH TOP	

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Tao Ye	1852	Monitor	ViewSonic	24.5	8	8	8	18.5	18.5	BENCH TOP	
Tao Ye	713	Monitor	Dell	16	9	9	9	19	19	BENCH TOP	
Tao Ye	1898	Nanodrop spectrophotometer	Nanodrop	5.5	8	8	9	5.5	8.5	BENCH TOP	
Tao Ye	1853	Oscilloscope	Tektronix	17	5	5	5	10.5	10.5	BENCH TOP	
Tao Ye	1873	Plasma cleaner	Harrick Plasma	10.25	8	12	9	8.25	8.25	BENCH TOP	
Tao Ye	709	Potentiostat	Epsilon	5	16.5	16.5	16.5	12.5	12.5	FLOOR	
Tao Ye	1875	Power Source	Fisher Scientific	5	10	10	11	5	5	BENCH TOP	
Tao Ye	1856	Power source	Evolve	9.5	5.5	5.5	5.5	5.5	5.5	BENCH TOP	
Tao Ye	704	Power Source	National Instruments	11	8.5	8.5	8.5	7.5	7.5	BENCH TOP	
Tao Ye	1879	Rotary Evaporator	Yamata	15	16	16	20	35	35	BENCH TOP	
Tao Ye	717	Shelving	Agilent	21.5	34	34	34	64	64	FLOOR	
Tao Ye	1891	Sonicator	Branson	15.5	12	12	12	14.5	14.5	BENCH TOP	
Tao Ye	1883	Spin Coater	Chemat Technology	8.5	8.5	8.5	9	9	9	BENCH TOP	
Tao Ye	1864	Stabilizer	Table Stable	16	18	18	19	3.5	3.5	BENCH TOP	
Tao Ye	1869	Table	Vecta	48	24	24	24	28.5	28.5	FLOOR	
Tao Ye	1860	Table	TMC	59	35	35	35	32.5	32.5	FLOOR	
Tao Ye	1896	Thermal Cycler	Bio Rad	9.5	18	18	19	9	16	BENCH TOP	
Tao Ye	1886	Thermal Cycler	Bio Rad	7	12.5	12.5	13	8.5	11	BENCH TOP	
Tao Ye	1871	Transilluminator	UVP	14	11	11	12	5	13	BENCH TOP	
Tao Ye	1900	UV-Vis	Perkins Elmer	25.5	22.5	22.5	22.5	9	21	BENCH TOP	
Tao Ye	1876	Vacuum Oven	VWR	23	26	40.5	42.5	19.25	19.25	BENCH TOP	
Tao Ye	1874	Vacuum Pump	BOC Edwards	10.5	18	18	18	11.5	11.5	FLOOR	
Tao Ye	712	Voltage regulator	Tripp-lite	19	5.5	5.5	5.5	5.5	5.5	FLOOR	
Tao Ye	719	Voltage regulator	Tripp-lite	19	7.5	7.5	7.5	5.5	5.5	BENCH TOP	
Tao Ye	1895	Vortexer	Fisher Scientific	4.5	7.5	7.5	8	6.5	6.5	BENCH TOP	

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Tao Ye	1894	Vortexer	Fisher Scientific	4.5	8.5	8.5	9	8.5	8.5	BENCH TOP	
Tao Ye	1880	Water Bath	Yamata	13.5	15	15	15	10	10	BENCH TOP	
Tao Ye	1890	Water Deionizer	Barnstead	12.5	15	20	15	19	19	WALL MOUNTED	
Tao Ye	1864		Olympus	3	8	8	9	5	5	BENCH TOP	
Tao Ye	1851		Agilent	9.5	9	9	11	5.5	5.5	BENCH TOP	
Tao Ye											
Victor Munoz	00002	HPLC2	Agilent	24	18	25	12	25	38	BENCH TOP	
Victor Munoz	02566	Husky cabinet	Husky								
Victor Munoz	02567	Husky cabinet	Husky								
Victor Muñoz	00026	accuSpin Micro 17	Fisher Scientific	9	14			9	20	BENCH TOP	
Victor Muñoz	00021	Balance	Mettler Toledo	8	14			4		BENCH TOP	
Victor Muñoz	00020	Balance	Mettler Toledo	10	14			13		BENCH TOP	
Victor Muñoz	00019	Bath	Thermo Scientific	8	15			14		BENCH TOP	
Victor Muñoz	00016	Biofermentor	Sartorius Stedium	55	15			22			Has a laptop. Connected to oxygen
Victor Muñoz	00037	ChemStar Dry	Welch	9	17			18			
Victor Muñoz	01939	ChemStar Dry	Welch	9	17			18			
Victor Muñoz	0004	Circular Dichroism (CD) Spectroscopy	Applied Photophysics Ch	60	32			24	28	BENCH TOP	Component accessories including temperature controller, nitrogen controller, water bath UPS and
Victor Muñoz	00011	Computer	Lenovo/Samsung	20	24			17			
Victor Muñoz	00013	Computer	Lenovo/Samsung	60	21			17			
Victor Muñoz	00028	Digital Cooling Drybath	Thermo Scientific	12	15			8	12	BENCH TOP	
Victor Muñoz	00029	Digital Shaking Drybath	Thermo Scientific	11	14			8		BENCH TOP	
Victor Muñoz	00030	Fluorimeter	Horiba Scientific	48	28			14	26	BENCH TOP	With computer and water pump
Victor Muñoz	00035	Fluorimeter	Horiba	48	41			22	26		With computer and water pump
Victor Muñoz	00025	FreeZone 4.5 Plus	Labconco	23	24	47		15		BENCH TOP	
Victor Muñoz	00015	HeraGuard Eco	Thermo Scientific	55	35			83		FLOOR	

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Victor Muñoz	00001	HPLC1	Agilent	24	18	25	12	25	38	BENCH TOP	HPLC1 has to be next to HPLC2 because they share the same computer and 2 monitors. The
Victor Muñoz	0007	Industrial Chiller		11	20			15			
Victor Muñoz	00042	Laser controller for optical traps	Lumicks	24	32	56	12	55		FLOOR	This Equiment has a work station with three monitors and require a table of 60 inch width and 27 inch depth.
Victor Muñoz	00036	Maxima C Plus	Fisher Scientific	7	18			12			
Victor Muñoz	0006	Nitrogen Controller		8	8			6			
Victor Muñoz	00041	Optical table along with the optical tweezers (C-Trap)	Lumicks	59	36		12	48	60	FLOOR	support@lumicks.com
Victor Muñoz	00012	Pro-data electronic unit	Applied Photophysics	14	14			7			
Victor Muñoz	00022	Sorvall Lynx 4000 Centrifuge	Thermos Scientific	30	32			42	62	FLOOR	
Victor Muñoz	00024	Sorvall ST 8R Centrifuge	Thermo Scientific	18	27			12	29	BENCH TOP	
Victor Muñoz	00023	Sorvall wX+ Ultra Series	Thermo Scientific	30	27			38		FLOOR	
Victor Muñoz	0008	Stop-Flow Kinetic Instrument with fluorescence	Applied Photophysics	33	32			24			Component accessories including computer, water bath and prodata unit are listed below with separate tags
Victor Muñoz	0005	Temperature Control	Quantum Northwest	11	18			5			
Victor Muñoz	00027	Thermal Cycler	Bio-Rad	12	20			11	21	BENCH TOP	
Victor Muñoz	00018	UltraSonic Bath	Fischer Scientific	10	12			12		BENCH TOP	
Victor Muñoz	00010	UPS		8	18			9			
Victor Muñoz	0009	Water bath with controller	PolyScience	9	23			25			
Victor Muñoz	00040	Workstation	Digital Storm	11	23	45	10	23			
Victor Muñoz	00039	Workstation	Digital Strom	11	23	45	10	23			
Victor Muñoz	00038	Workstation		10	23		10	23			
Wei-Chun Chin	01767	Big Storage Shelves		48	25			74			
Wei-Chun Chin	01751	cabinetr	Sandusky	36	24	42		78		FLOOR	
Wei-Chun Chin	01775	cart	Rubbermaid	26	55			33			
Wei-Chun Chin	02151	Centrifuge	Beckman Coulter	9.5	11			9.5	20		
Wei-Chun Chin	02165	Centrifuge 2	Eppendorf	12	15			9	23		
Wei-Chun Chin	01771	Computer									

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Wei-Chun Chin	01764	Computer									
Wei-Chun Chin	01774	Cryogenic container	VWR	20	20			30			
Wei-Chun Chin		Dynamic Light Scattering Set up	Brookhaven Instruments								(631) 758-3200
Wei-Chun Chin	01754	Heat Plate 1	Corning	9	11			5			
Wei-Chun Chin	01753	Heat Plate 2	Corning	9	11			5			
Wei-Chun Chin	01752	Heat Plate 3	Corning	11	16			6			
Wei-Chun Chin	01755	Heat Plate 6	Fischer Scientific	9	11			5			
Wei-Chun Chin		Heat Plate 7	VWR	10	12			6			
Wei-Chun Chin	02169	High Performance filter wheel changer (Microscope Hardwa	Sutter Intrument	19	11			4.5			
Wei-Chun Chin	02166	Laminar Flow Hood	NUAIRE	77	37			90			
Wei-Chun Chin	02167	Laminar flow hood 2	LABCONCO	54	31.5			87.5			
Wei-Chun Chin	02144	Large Centrifuge	Heraeus	28	23			16	40		The large centrifuge is connected to a Transformer. The Transformer is connected directly into the wall
Wei-Chun Chin	01769	Light Intensity Controller (Microscope Hardware)	Nikon	6	12			3			
Wei-Chun Chin	01773	Microscope	NIKON	29	28			28			(925) 820-3444
Wei-Chun Chin	01761	microscope 2		9	17			20			
Wei-Chun Chin	01768	Microwave	Sharp	21	16	32.5		12			
Wei-Chun Chin	02156	oven	VWR	24	23	47		37			
Wei-Chun Chin	02152	PCR	Applied Biosystems	10	12			10	20		
Wei-Chun Chin	01766	PH Meter		9	7			5			
Wei-Chun Chin	02148	Plate Reader Multikan EX	Thermo	12	17			6			
Wei-Chun Chin	01772	Power Box(Microscope Hardware)	EXFO	5.5	13.5			8			
Wei-Chun Chin	02153	Red Locked Cabinet		29	16	30		35			
Wei-Chun Chin	02149	Red Tool drawers		22	12			20			
Wei-Chun Chin	02142	Scale	Mettler Toledo	10	14			18			
Wei-Chun Chin	01758	Shaker	VWR	13	13			5			

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Wei-Chun Chin	01759	Shaker	VWR	13	13			5			
Wei-Chun Chin	02170	Shelves		30	15			66			
Wei-Chun Chin	01762	Small Water Bath	VWR	14	18			18			
Wei-Chun Chin	02147	Sonicator	Branson	10	13			13			
Wei-Chun Chin	02161	Table for Large Centrifuge		27	27			25			
Wei-Chun Chin	01765	Table for laser	TMC								
Wei-Chun Chin	01770	Temperature Controller (Microscope Hardware)	20/20 Technology	6	8			3			
Wei-Chun Chin	02145	Transformer for Large Centrifuge	Step Up and Down Trans	7	8			6			
Wei-Chun Chin	02143	Ultrasonic Cell Disruptor	Misonix	8	12			6			
Wei-Chun Chin	02168	vibration Isolation System		24	20			3			
Wei-Chun Chin	01757	Vortex	Vortex Genie	5	7			6			
Wei-Chun Chin	02164	Warm Water Bath	Thermo Scinetific	14	23			13			
Wei-Chun Chin	02150	Water Polisher	LABCONCO	31	8			29		WALL MOUNTED	

REFRIGERATION & INCUBATORS

	FACULTY MEMBER, PRINCIPAL INVESTIGATOR NAME	ORIGIN BUILDING	ORIGIN ROOM NUMBER	ASSET TAG # [ENTER # FROM THE STICKER PROVIDED]	ITEM DESCRIPTION	MANUFACTURER NAME	Owner Specified Max Unplug Time
1	Cytometry Core	Science and Engineering Building 1	153D	00467	MiniFridge	Thermo Scientific	2-3 Hrs
2	Cytometry Core	Science and Engineering Building 1	153C	00475	MiniFridge	Thermo Scientific	2-3 Hrs
3	Cytometry Core	Science and Engineering Building 1	153A	00477	MiniFridge	Thermo Scientific	2-3 Hrs
4	Tao Ye	Science and Engineering Building 1	261	1888	Mini Fridge	Fisher Scientific	2-3 Hrs
5	Tao Ye	Science and Engineering Building 1	261	1887	Mini Fridge	Frigidaire	2-3 Hrs
6	Victor Muñoz	Science and Engineering Building 1	385	02565	mini refrigerator	Haier	2-3 Hrs
7	Jennifer Manilay	Science and Engineering Building 1	325	02110	1 door fridge	Fischer Scientific	2-3 Hrs
8	Jennifer Manilay	Science and Engineering Building 1	325	02111	1 door freezer	Kenmore	2-3 Hrs
9	Jennifer Manilay	Science and Engineering Building 1	325	02112	2 door fridge	Kenmore	2-3 Hrs
10	Shahar Sukenik	CASTLE	1101	00089	Refrigerator	Kenmore	2-3 Hrs
11	Anand Subramaniam	Science & Engineering 2	080	01817	Freezer	Fisher Sci.	2-3 Hrs
12	Anand Subramaniam	Science & Engineering 2	080	01819	Refrigerator	Fisher Sci.	2-3 Hrs
13	Anand Subramaniam	Science & Engineering 2	270K	00972	Refrigerator	Thermo Scientific	2-3 Hrs
14	Andrea Joyce	CASTLE	1308	01019	fridge/freezer	FRIGIDAIR	2-3 Hrs
15	Chih-Wen Ni	Science and Engineering Building 1	343	00354	Freezer (right)	Thermo Fisher Scientific	2-3 Hrs
16	Kirk Jensen	Science & Engineering 2	340	00752	4° fridge 1	Kenmore	2-3 Hrs
17	Maria Zoghbi	CASTLE	1304	00280	Refrigerator	Kenmore	2-3 Hrs
18	SOE Class Lab	Bioengineering Lab	150	00562	Refrigerator	Thermo Scientific	2-3 Hrs
19	SOE Class Lab	Environmental Engineering Lab	130	00563	Refrigerator	Thermo Scientific	2-3 Hrs
20	Victor Muñoz	Science & Engineering 2	340	00033	Fridge 4C	Fisher scientific	2-3 Hrs
21	Victor Muñoz	Science & Engineering 2	340	00034	Fridge -20C	Fisher scientific	2-3 Hrs
22	Wei-Chun Chin	Science and Engineering Building 1	335	02158	Fridge 2 (CHI-10)	Fisher Scientific	2-3 Hrs
23	Cytometry Core	Science and Engineering Building 1	153E	00460	-20C Freezer	VWR	2-3 Hrs
24	Juris Grasis	Science & Engineering 2	340	01351	-20C Freezer	Thermo Scientific	2-3 Hrs
25	Aaron Hernday	Science and Engineering Building 1	353	00914	Panasonic -80C	Panasonic	2-3 Hrs
26	Aaron Hernday	Science and Engineering Building 1	353	00915	Kenmore -20C	Kenmore	2-3 Hrs
27	Clarissa Nobile	Science and Engineering Building 1	301	00660	-20 C Freezer	Kenmore	2-3 Hrs
28	Katrina Hoyer	Science and Engineering Building 1	353	1406	Kenmore -20*C Freezer	Kenmore	2-3 Hrs
29	Maria Zoghbi	CASTLE	1304	00279	Freezer -20oC	Kenmore	2-3 Hrs
30	Andrea Joyce	CASTLE	1308	01016	-20 freezer	NORLAKE	2-3 Hrs
31	Andrea Joyce	CASTLE	1308	01017	-20 freezer	NORLAKE	2-3 Hrs
32	Andrea Joyce	CASTLE	1308	01018	-20 freezer	NORLAKE	2-3 Hrs
33	Chih-Wen Ni	Science and Engineering Building 1	343	00352	Freezer (left)	Thermo Fisher Scientific	2-3 Hrs
34	Clarissa Nobile	Science and Engineering Building 1	301	00655	-80 C Freezer	New Brunswick	2-3 Hrs
35	Eva de Alba	Science & Engineering 2	340	00156	-80C fridge	New Brunswick	2-3 Hrs
36	Katrina Hoyer	Science and Engineering Building 1	353	1405	Glacier -86*C Ultralow Temperature Freezer	Nuaire	2-3 Hrs
37	Chih-Wen Ni	Science and Engineering Building 1	343	00377	Freezer (-80 degree C)	Thermo Scientific	2-3 Hrs
38	Chih-Wen Ni	Science and Engineering Building 1	343	00375	Freezer (-20)	Thermo Fisher Scientific	2-3 Hrs
39	Juris Grasis	Science & Engineering 2	340	01396	-80C Ultralow Freezer	Panasonic	2-3 Hrs
40	Kirk Jensen	Science & Engineering 2	340	00757	-80° freezer	New Brunswick	2-3 Hrs
41	Maria Zoghbi	CASTLE	1314	00276	Freezer -80oC	Thermo Scientific	2-3 Hrs
42	Victor Muñoz	Science & Engineering 2	340	00031	Freezer -80C	Thermo scientific	2-3 Hrs
43	Wei-Chun Chin	Science and Engineering Building 1	335	02157	-80 Freezer (CHI-03)	VWR	2-3 Hrs
44	Aaron Hernday	Science and Engineering Building 1	353	00903	37C Stacking static incubator	ThermoScientific	2-3 Hrs
45	Aaron Hernday	Science and Engineering Building 1	353	00904	30C Stacking static incubator	ThermoScientific	2-3 Hrs
46	Aaron Hernday	Science and Engineering Building 1	353	00905	30C Shaking Incubator	New Brunswick Scientific	2-3 Hrs
47	Aaron Hernday	Science and Engineering Building 1	353	00906	25C Shaking Incubator	New Brunswick Scientific	2-3 Hrs
48	Aaron Hernday	Science and Engineering Building 1	353	00908	Cooling Still Incubator	Binder	2-3 Hrs
49	Aaron Hernday	Science and Engineering Building 1	353	00909	Cooling Still Incubator	Binder	2-3 Hrs
50	Anand Gadre	Science and Engineering Building 1	Cell Culture room	00470	Symphony stacked incubators		2-3 Hrs
51	Anand Gadre	Science and Engineering Building 1	Cell Culture room	00471	Symphony stacked incubators		2-3 Hrs
52	Arvind Gopinath	CASTLE	1201	110	Incubator/Refrigerator	ThermoScientific	2-3 Hrs
53	Arvind Gopinath	CASTLE	1201	111	Incubator/Refrigerator	ThermoScientific	2-3 Hrs
54	Chih-Wen Ni	Science and Engineering Building 1	343	00376	Incubator (4 degree C)	Thermo Scientific	2-3 Hrs
55	Chih-Wen Ni	Science and Engineering Building 1	343	00374	Incubator (28.5 degree C)	Thermo Fisher Scientific	2-3 Hrs
56	Chih-Wen Ni	Science and Engineering Building 1	343	00376	Incubator (4 degree C)	Thermo Scientific	2-3 Hrs
57	Clarissa Nobile	Science and Engineering Building 1	301	00665	Incubator	VWR	2-3 Hrs
58	Clarissa Nobile	Science and Engineering Building 1	301	00666	Incubator	VWR	2-3 Hrs
59	Clarissa Nobile	Science and Engineering Building 1	301	00653	Shaking Incubator	New Brunswick	2-3 Hrs
60	Clarissa Nobile	Science and Engineering Building 1	301	00673	Incubator	Sheldon Manufacturing, Inc.	2-3 Hrs
61	Clarissa Nobile	Science and Engineering Building 1	301	00654	Shaking Incubator	New Brunswick	2-3 Hrs
62	Clarissa Nobile	Science and Engineering Building 1	301	00670	Shaking Incubator	New Brunswick	2-3 Hrs
63	Clarissa Nobile	Science and Engineering Building 1	301	02029	Incubator	Agilent Technologies	2-3 Hrs
64	Cytometry Core	Science and Engineering Building 1	153	00470	Symphony stacked incubators	VWR	2-3 Hrs
65	Cytometry Core	Science and Engineering Building 1	153	00471	Symphony stacked incubators	VWR	2-3 Hrs
66	Jennifer Manilay	Science and Engineering Building 1	323	PENDING	Incubator	NAPCO	2-3 Hrs
67	Jennifer Manilay	Science and Engineering Building 1	323	PENDING	Incubator	SHEL LAB	2-3 Hrs
68	Juris Grasis	Science & Engineering 2	340	PENDING	VWR incubator	VWR	2-3 Hrs
69	Juris Grasis	Science & Engineering 2	340	PENDING	Pansonic Incubator	Pansonic	2-3 Hrs
70	Juris Grasis	Science & Engineering 2	340	01363	MaxQ 6000 Refigerated Orbital Shaker	Thermo Scientific	2-3 Hrs
71	Kirk Jensen	Science & Engineering 2	340	00751	LN Freezer	K-Series	2-3 Hrs
72	Kirk Jensen	Science & Engineering 2	340	00761	TC incubator 1	Fisher Scientific	2-3 Hrs
73	Kirk Jensen	Science & Engineering 2	340	00762	TC incubator 2	Fisher Scientific	2-3 Hrs
74	Kirk Jensen	Science & Engineering 2	340	00763	TC incubator 3	Fisher Scientific	2-3 Hrs
75	Kirk Jensen	Science & Engineering 2	340	00764	TC incubator 4	Fisher Scientific	2-3 Hrs
76	Kirk Jensen	Science & Engineering 2	340	00765	TC incubator 5	Fisher Scientific	2-3 Hrs
77	Kirk Jensen	Science & Engineering 2	340	00766	TC incubator 6	Fisher Scientific	2-3 Hrs
78	Maria Zoghbi	CASTLE	1314	00284	Shaker Incubator	Thermo Scientific	2-3 Hrs
79	Maria Zoghbi	CASTLE	1305	00287	Shaker Incubator	ShellLab	2-3 Hrs
80	Maria Zoghbi	CASTLE	1305	00286	Shaker Incubator	ShellLab	2-3 Hrs
81	Maria Zoghbi	CASTLE	1305	00251	Shaker Incubator	New Brunswick	2-3 Hrs
82	Shahar Sukenik	CASTLE	1101	00053	Incubator	Thermo	2-3 Hrs
83	Shahar Sukenik	CASTLE	1101	00054	Incubator	Thermo	2-3 Hrs
84	SOE Class Lab	PREP ROOM	140	00552	Co2 Incubator	Barnstead Lab-Line	2-3 Hrs
85	SOE Class Lab	PREP ROOM	140	00561	Co2 Incubator	Barnstead Lab-Line	2-3 Hrs
86	Wei-Chun Chin	Science and Engineering Building 1	335	02162	Cell incubator 1	VWR	2-3 Hrs
87	Wei-Chun Chin	Science and Engineering Building 1	335	02163	Cell Incubator 2	VWR	2-3 Hrs
88	Wei-Chun Chin	Science and Engineering Building 1	335	02159	Large Incubator	VWR	2-3 Hrs
89	Wei-Chun Chin	Science and Engineering Building 1	335	02141	Small Incubator	Thermo Scientific	2-3 Hrs
90	Wei-Chun Chin	Science and Engineering Building 1	335	07160	Mini Incubator	VWR	2-3 Hrs
91	Anand Gadre	Science and Engineering Building 1	Aria III room	00460	-20C Freezer		2-3 Hrs
92	Anand Gadre	Science and Engineering Building 1	Cell Culture room	00467	MiniFridge		2-3 Hrs
93	Anand Gadre	Science and Engineering Building 1	Cell Culture room	00475	MiniFridge		2-3 Hrs
94	Anand Gadre	Science and Engineering Building 1	Cytometer room	00477	MiniFridge		2-3 Hrs
95	Aaron Hernday	Science and Engineering Building 1	353	00909	4C Cold Case	VWR	2-3 Hrs
96	Bin Liu	Science and Engineering Building 1	381	1237	Refrigerator	Electrolux	2-3 Hrs
97	Changquing Li	Science and Engineering Building 1	100B	00414	mini fridge	Awanti	2-3 Hrs
98	Changquing Li	CASTLE	1400	00445	refrigerator	Homak	2-3 Hrs
99	Clarissa Nobile	Science and Engineering Building 1	301	00659	3 Door 4C Fridge	Thermo Scientific	2-3 Hrs
100	Eva de Alba	Science & Engineering 2	340	00159	4C glass door fridge	VWR	2-3 Hrs
101	Eva de Alba	Science & Engineering 2	340	00160	White two door 4C fridge	VWR	2-3 Hrs
102	Jennifer Manilay	Science and Engineering Building 1	323	02101	Fridge 1	Fridgaire 1	2-3 Hrs
103	Jennifer Manilay	Science and Engineering Building 1	323	02102	Fridge 2	Fridgaire 2	2-3 Hrs
104	Jennifer Manilay	Science and Engineering Building 1	325	02113	2 door fridge	Hotpoint	2-3 Hrs
105	Joel Spencer	Science and Engineering Building 1	012	00839	Freezer	Summit	2-3 Hrs
106	Joel Spencer	CASTLE	Room 154b	00849	Fridge/Freezer	Whirlpool	2-3 Hrs
107	Juris Grasis	Science & Engineering 2	340	01361	4C refridgerator	VWR	2-3 Hrs
108	Juris Grasis	Science & Engineering 2	340	01379	Isotemp Fridge/Freezer	Fisher Scientific	2-3 Hrs
109	Katrina Hoyer	Science and Engineering Building 1	353	1407	BSI 4*C Fridge	Energy Star	2-3 Hrs
110	Kirk Jensen	Science & Engineering 2	340	00753	4° fridge 2	VWR	2-3 Hrs
111	Kirk Jensen	Science & Engineering 2	340	00756	-20° freezer	VWR	2-3 Hrs
112	Kirk Jensen	Science & Engineering 2	340	00754	-20° short freezers (PCR bench)	VWR	2-3 Hrs
113	Kirk Jensen	Science & Engineering 2	340	00755	-20° short freezer (Gel bench)	VWR	2-3 Hrs
114	Linda Hirst	Science and Engineering Building 1	377	01498	-80 Freezer	VWR	2-3 Hrs
115	Linda Hirst	Science and Engineering Building 1	377	01493	Fridge	VWR	2-3 Hrs
116	Maria Zoghbi	CASTLE	1314	00283	Chromatography Refrigerator	Atosa	2-3 Hrs
117	Michael Scheibner	Science and Engineering Building 1	377A	01528	Sumitomo F-70	Sumitomo	2-3 Hrs
118	Shahar Sukenik	CASTLE	1101	00100	Refrigerator (for TC media)	Danby	2-3 Hrs
119	Shahar Sukenik	CASTLE	1101	00083	Freezer	Harris	2-3 Hrs
120	Shahar Sukenik	CASTLE	1101	00092	Refrigerator	Avantco	2-3 Hrs
121	Victor Muñoz	Science & Engineering 2	340	00032	Fridge 4C	Alamo Refrigeration	2-3 Hrs
122	Wei-Chun Chin	Science and Engineering Building 1	335	02154	Fridge (CHI-09)	Whirpool	2-3 Hrs
123	Wei-Chun Chin	Science and Engineering Building 1	335	02160	Fridge/Freezer (CHI-24)	Barnstead International	2-3 Hrs
124	Wei-Chun Chin	Science and Engineering Building 1	335	02155	small Freezer	Frigidaire	2-3 Hrs
125	Wei-Chun Chin	Science and Engineering Building 1	335	02146	Small Medium Fridge	Fisher Scientific	2-3 Hrs

LAB GROUP	ROOM ASSIGNMENT	ITEM DESCRIPTION	ASSET TAG #	WIDTH (INCHES)	DEPTH [FRONT TO BACK] (INCHES)	HEIGHT [TOP TO BOTTOM INCLUDING FEET] (INCHES)
Anand Gadre	Aria III room	Aria III table #1	00462	68	36	34
Anand Gadre	Aria III room	Aria III table #2	00463	37	36	34
Anand Gadre	Cytometer room	LSRII table #1	00478	36	36	29
Anand Gadre	Cytometer room	LSRII table #2	00479	66	32	29
Anand Gadre	Cytometer room	Aria II table #1	00481	52	33	31
Anand Gadre	Cytometer room	Aria II table #2	00482	55	33	31
Anand Gadre	SCIF	Aria IIu SORP table #1	00487	37	36	34
Anand Gadre	SCIF	Aria IIu SORP table #2	00488	68	36	34
Arvind Gopinath	Castle Facilities	Laser Table	112	59 8/16	96	34 10/16
Bin Liu	SE1 381	Newport Research Corporation optical table	1240	48	96	36
Bin Liu	SE1 381	Newport Integrity 3 VCS	1241	48	72	37
Changquing Li	100B	optical table	00402	47	35	33
Changquing Li	100B	lab table	00403	60	30	32.5
Changquing Li	100B	microCT cabinet	00409	39	27	36.5
Changquing Li	100B	microCT bench	00410	48	24	34.5
Changquing Li	136	FMT box with table	00419	48	24	56
Changquing Li	136	big optic table	00420	72	36	36
Changquing Li	136	FXLT	01990	33.9	47	70
Changquing Li	030	tdxlct lead cabinet	00436	39	27	37
Changquing Li	030	tdxlct table	00437	48	30	36
Changquing Li	1413	optical table 2	00440	48	30	
Changquing Li	1413	microPET scanner	2000	27	51	58
Chih-Wen Ni	SE1 Confocal Room (343D)	Airtable - CleanTop	00366	35 in	28 in	6 in
Chih-Wen Ni	SE1 Confocal Room (343D)	Airtable - Gimbal Piston	00364	34 in	28 in	25 in
Anand Gadre, David Gravano	SE1 153E	Aria III table #1	00462	68	36	34
Anand Gadre, David Gravano	SE1 153E	Aria III table #2	00463	37	36	34
Anand Gadre, David Gravano	SE1 379	LSRII table #1	00487	37	36	34
Anand Gadre, David Gravano	SE1 379	LSRII table #2	00488	68	36	34
Dustin Kleckner	SE1 371C	Optical bench	00534	59	36	31
Dustin Kleckner	TBD	Flow Chamber Experiment	TBD			
Jay Sharping	SE1 125	Optical table (with legs)	00900	49	97	37
Jay Sharping	SE1 125	Optical table (with legs)	00899	49	97	37
Jay Sharping	Castle 1200	Oxford dilution refrigerator main chamber (system B	00889	28		65
Jay Sharping	Castle 1200	Vericold control rack	00888	24	32	77
Jay Sharping	Castle 1200	Cryomech controller	00887	19	20	25
Jay Sharping	Castle 1200	Oxford dilution refrigerator main chamber (system B	00883	28		65
Jay Sharping	Castle 1200	Vericold control rack	00882	24	32	77
Jay Sharping	Castle 1200	Cryomech controller	00881	19	20	25

Jay Sharping	Castle 1200	Instrument rack	06637	26	32	84
Jay Sharping	Castle 1200	Instrument rack	06638	20	18	70
Jay Sharping	Castle 1200	Instrument rack	06649	27	20	78
Joel Spencer	Castle 1200	Microscope Table	00850	59	166	39.5
Joel Spencer	SE1 006	Microscope Table	00821	48	108	60
Michael Scheibner	SE1 377A	TMC Optical Table	01533	96	48	40
Michael Scheibner	SE1 377A	TMC Optical Table	01534	96	48	40
Michael Scheibner	SE1 377A	ST Series Smart Table w/ ATS Shelving system	01535	96	48	68
MUVI	SE1 381	Newport Integrity 3 VCS	1241	48	72	37
Sayantani Ghosh	SE1 371	optical table with legs	00318	48	96	80
Sayantani Ghosh	SE1 371	optical table with legs	00339	48	96	80
Sayantani Ghosh	SE1 371	optical table with legs	00320	48	96	80
Sayantani Ghosh	SE1 371	optical table with legs	00330	48	96	80
Sayantani Ghosh	SE1 371	optical table with legs	00314	48	96	80
Shahar Sukenik	Castle Building 1201	Microscope Table (associated with 01948)	01946			
SOE CLASS LAB	Bioengineering Laboratory 150	Stoppering Tray Dryer	00559	32	11	27
Tao Ye	SE1 261A	Glove Box	1881	75	32	76
Tao Ye	SE1 261	Marble Table	1865	35	24	31.5
Tao Ye	SE1 239	Marble Table	701	35	24	31.5
Tao Ye	SE1 239	Air Table	1860	59	35	32.5
Victor Muñoz	SE1 385	)ptical table along with the optical tweezers (C-Trap	00041	59	36	48
Linda Hirst	SE1 377	Stabilizing Table	TBD			

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Sublocation	Size	Amount	Units	Container Type	Concentration	Concentration Units	Solvent
4-Chloro-1-butanol		928-51-8	C4H9ClO	Liquid	H302,H315,H319,H335,H227	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	mL	Glass Bottle			
Calcium chloride solution		10043-52-4	CaCl2	Liquid	H319	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	L	Glass Bottle	0.5	M	Water
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	lb	Cylinder			
Carbachol		51-83-2	C6H15ClN2O2	Solid	H300	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
2,3-Butanedione-2-monoxime		57-71-6	C4H7NO2	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Bisoprolol hemifumarate salt, 98%		104344-23-2	C18H31NO4.0.5C4H4O4	Solid	H302	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	10	10	mg	Glass Bottle			
Amiodarone hydrochloride		19774-82-4	C25H30ClI2NO3	Solid	H332,H312,H303	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	g	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	lb	Cylinder			
Caffeine		58-08-2	C8H10N4O2	Solid	H302	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Cadmium chloride hydrate		654054-66-7	CdCl2H2O	Solid	H301,H330,H330,H340,H340,H350,H350,H360,H360,H372,H400,H410	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	339	Not in Specific Location	250	250	g	Glass Bottle			
Calcium hydroxide		1305-62-0	CaH2O2	Solid	H314,H315,H318,H335,H402	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Glass Bottle			
Atropine		51-55-8	C17H23NO3	Solid	H300,H310	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Calcium nitrate tetrahydrate		13477-34-4	CaH8N2O10	Solid	H272,H302,H303,H315,H318,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
Cesium chloride		7647-17-8	ClCs	Solid	H302,H303,H361,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	g	Glass Bottle			
Cesium chloride		7647-17-8	ClCs	Solid	H302,H303,H361,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	5	5	g	Glass Bottle			
Cesium hydroxide monohydrate		35103-79-8	CsH3O2	Solid	H302,H314,H314,H314,H318	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
4-Chloro-1-butanol		928-51-8	C4H9ClO	Liquid	H302,H315,H319,H335,H227	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	mL	Glass Bottle			
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
Calcium nitrate tetrahydrate		13477-34-4	CaH8N2O10	Solid	H272,H302,H303,H315,H318,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
CHAPS hydrate		331717-45-4	C32H58N2O7S · xH2O	Solid	H315,H319,H335,H360	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	5	5	g	Glass Bottle			
Calcium chloride solution		10043-52-4	CaCl2	Liquid	H319	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	L	Glass Bottle			
2,3-Butanedione-2-monoxime		57-71-6	C4H7NO2	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
(-)-Blebbistatin		856925-71-8	C18H16N2O2	Solid	H319,H332,H312,H317,H335,H315,H302	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	mg	Glass Bottle			
Calcium chloride solution		10043-52-4	CaCl2	Liquid	H319	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	L	Glass Bottle			
1-Octanol		111-87-5	C8H18O	Liquid	H227,H313,H315,H316,H319,H402,H412	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	lb	Cylinder			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	lb	Cylinder			
Dicumarol	3,3'-Methylene-bis(4-hydroxycoumarin)	66-76-2	C19H12O6	Solid	H301,H372,H401	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	25	25	g	Glass Bottle			
4-Chloro-1-butanol		928-51-8	C4H9ClO	Liquid	H302,H315,H319,H335,H227	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	mL	Glass Bottle			
(-)-Blebbistatin		856925-71-8	C18H16N2O2	Solid	H319,H332,H312,H317,H335,H315,H302	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	mg	Glass Bottle			
4-Aminopyridine		504-24-5	C5H6N2	Solid	H300,H300,H315,H319,H335,H401	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	10	10	g	Glass Bottle			
Agarose		9012-36-6		Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
Barium hydroxide octahydrate		12230-71-6	BaH18O10	Solid	H302,H314,H318,H332	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
EGTA		67-42-5	C14H24N2O10	Solid	H303	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Plastic Bottle			
Hydrogen peroxide, > 27.5 to ≤ 35 % in wa		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	mL	Plastic Bottle			
Isoprenaline hydrochloride		51-30-9	C11H18ClNO3	Solid	H303,H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	5	5	g	Glass Bottle			
MOPS		1132-61-2	C7H15NO4S	Solid	H303,H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	228	228	ft3	Cylinder			
Pinacidil monohydrate powder		85371-64-8	C13H19N5 · H2O	Solid	H335,H319,H315,H302	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mg	Glass Bottle			
Copper(II) sulfate pentahydrate		7758-99-8	CuH10O9S	Solid	H301,H302,H313,H315,H319,H400,H410	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
EDTA		60-00-4	C10H16N2O8	Solid	H319	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
EGTA		67-42-5	C14H24N2O10	Solid	H303	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Plastic Bottle			
Lithium chloride		7447-41-8	ClLi	Solid	H302,H315,H319,H335,H402	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
Potassium phosphate dibasic trihydrate		16788-57-1	H7K2O7P	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	mL	Glass Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	mL	Plastic Bottle			
Evans Blue		314-13-6	C34H24N6Na4O14S4	Solid	H350	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	10	10	g	Glass Bottle			
Potassium sulfate		7778-80-5	K2O4S	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Glass Bottle			
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	mL	Glass Bottle			
Methanesulfonic acid		75-75-2	CH4O3S	Liquid	H290,H302,H312,H314,H318,H335,H401	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	mL	Glass Bottle			
MOPS		1132-61-2	C7H15NO4S	Solid	H303,H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	249	249	ft3	Cylinder			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	4	4	L	Glass Bottle	70	% vol.	Water
HEPES		7365-45-9	C8H18N2O4S	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Glass Bottle			
Nickel(II) chloride hexahydrate		7791-20-0	Cl2Ni · 6H2O	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H400,H410	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			

Escobar, A
BSP Basement

Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
MOPS		1132-61-2	C7H15NO4S	Solid	H303,H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	4	4	L	Glass Bottle			
Decane		124-18-5	C10H22	Liquid	H226,H304	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
N-(2-Hydroxyethyl)ethylenediamine-N,N',N'-triacetic acid		150-39-0	C10H18N2O7	Solid	H335,H319,H315	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Magnesium hydroxide		1309-42-8	H2MgO2	Solid	H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	First Floor	144A	Not in Specific Location	249	249	ft3	Cylinder			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	First Floor	144A	Not in Specific Location	249	249	ft3	Cylinder			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	249	249	ft3	Cylinder			
Quinidine hydrochloride monohydrate		6151-40-2	C20H24N2O2 · HCl · H2O	Solid	H312,H332,H302	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	5	5	g	Glass Bottle			
Chelex 100 sodium form		11139-85-8		Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	25	25	g	Glass Bottle			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	228	228	ft3	Cylinder			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	249	249	ft3	Cylinder			
Potassium hydroxide		1310-58-3	HKO	Solid	H290,H302,H314,H318,H402	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Germanium(IV) chloride		10038-98-9	Cl4Ge	Liquid	H314,H330,H318	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	5	5	mL	Glass Bottle			
Nitrilotriacetic acid		139-13-9	C6H9NO6	Solid	H302,H315,H319,H335,H351	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	240	240	ft3	Cylinder			
N-Methyl-D-glucamine		6284-40-8	C7H17NO5	Solid	H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Plastic Bottle			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	249	249	ft3	Cylinder			
Potassium chloride		7447-40-7	ClK	Solid	H303	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
D-(+)-Glucose		50-99-7	C6H12O6	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Lanthanum(III) chloride		10099-58-8	Cl3La	Solid	H290,H303,H315,H317,H318,H319,H335,H401,H411	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
HEPES		7365-45-9	C8H18N2O4S	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
Mercury(II) chloride		7487-94-7	Cl2Hg	Solid	H300,H310,H314,H318,H341,H361,H372,H400,H410	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Plastic Bottle			
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	mL	Glass Bottle			
Decane		124-18-5	C10H22	Liquid	H226,H304	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
L-Aspartic acid potassium salt		1115-63-5	C4H6KNO4	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Potassium chloride		7447-40-7	ClK	Solid	H303	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Decane		124-18-5	C10H22	Liquid	H226,H304	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
MOPSO		68399-77-9	C7H15NO5S	Solid	H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
N-Acetyl-L-cysteine		616-91-1	C5H9NO3S	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	10	10	g	Glass Bottle			
Nimodipine		66085-59-4	C21H26N2O7	Solid	H373,H303	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	249	249	ft3	Cylinder			
2,6-Pyridinedicarboxylic acid		499-83-2	C7H5NO4	Solid	H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	25	25	g	Glass Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Dantrolene, sodium salt		14663-23-1	C14H9N4O5.Na	Solid	H303,H313,H333,H371	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mg	Glass Bottle			
Decane		124-18-5	C10H22	Liquid	H226,H304	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Magnesium sulfate		7487-88-9	MgO4S	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	249	249	ft3	Cylinder			
EDTA		60-00-4	C10H16N2O8	Solid	H319	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
EDTA disodium salt dihydrate		6381-92-6	C10H14N2Na2O8 · 2H2O	Solid	H303,H332,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
Lead(II) chloride		7758-95-4	Cl2Pb	Solid	H302,H332,H351,H360,H372,H373,H400,H410	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	g	Glass Bottle			
Phenylmethylsulfonyl fluoride		329-98-6	C7H7FO2S	Solid	H301,H314,H314,H314,H318	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	g	Glass Bottle			
Sodium bicarbonate		144-55-8	CHNaO3	Solid	H303	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Sodium chloride		7647-14-5	ClNa	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	5	5	kg	Plastic Bottle			
Taurine		107-35-7	C2H7NO3S	Solid	H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
Sucrose		57-50-1	C12H22O11	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Tetracaine		94-24-6	C15H24N2O2	Solid	H301,H317,H351	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	25	25	g	Glass Bottle			
Verapamil hydrochloride		152-11-4	C27H39ClN2O4	Solid	H331,H301,H311	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	g	Glass Bottle			
Sodium bicarbonate		144-55-8	CHNaO3	Solid	H303	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Plastic Bottle			
Tetrodotoxin		4368-28-9	C11H17N3O8	Solid	H300,H330,H310	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	10	10	mg	Glass Bottle			
Sodium fluoride		7681-49-4	FNa	Solid	H300,H300,H301,H315,H319,H402	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Glass Bottle			
Sodium phosphate monobasic monohydrate		10049-21-5	H4NaO5P	Solid	H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Strontium chloride hexahydrate		10025-70-4	Cl2Sr · 6H2O	Solid	H318	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	g	Glass Bottle			
TRIzol Reagent		108-95-2, 593-84-0, 1762-95-4		Liquid	H301,H311,H314,H314,H314,H331,H335,H341,H373,H412	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	100	100	mL	Glass Bottle			
Sodium phosphate monobasic monohydrate		10049-21-5	H4NaO5P	Solid	H315,H319,H335	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Tetramethylammonium hydroxide, 25% solution in water		75-59-2, , 7732-18-5	C4H13NO	Solid	H300,H310,H314,H318,H370,H372,H401,H411	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	250	250	mL	Glass Bottle			
Theophylline	Theophylline, 99+%, anhydrous, ACROS Organics	58-55-9	C7H8N4O2	Solid	H301	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	g	Glass Bottle			

Potassium sodium tartrate tetrahydrate	Sodium Potassium Tartrate Tetrahydrate (Crystalline/Certified ACS), Fisher Chemical	6381-59-5	C4H4KNaO6 · 4 H2O	Solid		Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	1	1	kg	Plastic Bottle			
Sodium carbonate		497-19-8	CNa2O3	Solid	H303,H316,H319	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	500	500	g	Plastic Bottle			
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	First Floor	144A	Not in Specific Location	249	249	ft3	Cylinder			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	mL	Glass Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	mL	Glass Bottle			
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	339	Not in Specific Location	1	1	L	Glass Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Molecular and Cellular Cardiac Physiology	Science and Engineering Building	Third Floor	343	Not in Specific Location	50	50	mL	Glass Bottle			

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Sublocation	Size	Amount	Units	Container Type
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	2.5	2.5	L	Glass Bottle
Hexane		110-54-3	C6H14	Liquid	H225,H304,H315,H320,H336,H361,H373,H401,H411	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	20	20	L	Can
Gold(III) chloride hydrate		27988-77-8	AuCl4H3O	Solid	H302,H314,H317,H318	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Toluene		108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	4	4	L	Glass Bottle
Hexane		110-54-3	C6H14	Liquid	H225,H304,H315,H320,H336,H361,H373,H401,H411	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	mL	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Poly(vinyl alcohol)		9002-89-5	C2H4O	Solid		Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	25	25	g	Plastic Bottle
Potassium phosphate monobasic		7778-77-0	H2KO4P	Solid	H313,H315,H319	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	500	500	g	Glass Bottle
1-Bromopentane		110-53-2	C5H11Br	Liquid	H226,H302,H315,H319,H335	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	250	250	mL	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
2,2'-Azobis(2-methylpropionitrile)		78-67-1	C8H12N4	Solid	H242,H242,H242,H242,H242,H242,H242,H242,H302,H332,H402,H412	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	25	25	g	Glass Bottle
Hexane		110-54-3	C6H14	Liquid	H225,H304,H315,H320,H336,H361,H373,H401,H411	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	mL	Glass Bottle
Hexane		110-54-3	C6H14	Liquid	H225,H304,H315,H320,H336,H361,H373,H401,H411	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	20	20	L	Can
Toluene	Toluene, anhydrous, 99.8%, Alfa Aesar	108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	2.5	2.5	L	Glass Bottle
2,2'-Azobis(2-methylpropionitrile)		78-67-1	C8H12N4	Solid	H242,H242,H242,H242,H242,H242,H242,H242,H302,H332,H402,H412	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	25	25	g	Glass Bottle
N,N'-Bis(2,5-di-tert-butylphenyl)-3,4,9,10-perylenedicarboximide		83054-80-2	C52H50N2O4	Solid	H319,H315,H335	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	mg	Glass Bottle
5-Hexynoic acid		53293-00-8	C6H8O2	Liquid	H315,H319,H335	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	5	5	g	Glass Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	250	250	mL	Glass Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	250	250	mL	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	2.5	2.5	L	Glass Bottle
Di-tert-butyl dicarbonate		24424-99-5	C10H18O5	Liquid	H226,H315,H317,H318,H330,H335	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	2.5	2.5	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Gold nanoparticle, 30 nm, NHS functionalized conjugation kit Product of CytoDiagnostics, Inc.				Liquid	H303	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	25	25	mL	Glass Bottle
Helium (gas)		7440-59-7	He	Gas	H280	Ghosh's Laboratory [WG]	Science and Engineering Building	First Floor	144A	Not in Specific Location	218	218	ft3	Cylinder
Poly(methyl methacrylate)		9011-14-7	[CH2C(CH3)(CO2CH3)]n	Solid		Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	250	250	g	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
1,2,4,5-Tetrabromobenzene		636-28-2	C6H2Br4	Solid	H413,H315,H319,H335	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	25	25	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	228	228	ft3	Cylinder
1-Bromooctane		111-83-1	C8H17Br	Liquid	H400,H227,H303,H410	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	0.25	0.25	L	Glass Bottle
2,6-Dimethylpyridine		108-48-5	C7H9N	Liquid	H226,H302,H313,H315,H319,H335	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	mL	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	2	2	L	Glass Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	950	950	mL	Glass Bottle
Gold(III) chloride trihydrate		16961-25-4	AuCl4H7O3	Solid	H314,H317,H318	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	g	Glass Bottle
Toluene		108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	2.5	2.5	L	Glass Bottle
Triethylamine		121-44-8	C6H15N	Liquid	H225,H302,H311,H312,H314,H314,H314,H318,H331,H332,H335,H401	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
4'-Pentyl-4-biphenylcarbonitrile		40817-08-1	C18H19N	Liquid	H332,H319,H315,H312,H335,H302	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	5	5	g	Glass Bottle
4'-Pentyl-4-biphenylcarbonitrile		40817-08-1	C18H19N	Liquid	H332,H319,H315,H312,H335,H302	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	g	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	500	500	mL	Glass Bottle
Dichloromethane, stabilized		75-09-2	CH2Cl2	Liquid	H303,H313,H315,H319,H335,H336,H351,H373	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	mL	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	2.5	2.5	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	500	500	mL	Glass Bottle
Toluene	Toluene for HPLC, 99.9%	108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
2,2,2-Trifluoroethanol		75-89-8	C2H3F3O	Liquid	H226,H301,H312,H315,H318,H331,H335	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	500	500	g	Glass Bottle
Bromoacetyl bromide		598-21-0	C2H2Br2O	Liquid	H314,H318	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
N-Hydroxysuccinimide		6066-82-6	C4H5NO3	Solid		Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	g	Plastic Bottle
N,N-Dimethylformamide		68-12-2	C3H7NO	Liquid	H226,H303,H312,H316,H319,H332,H360,H360	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
1,4-Dioxane		123-91-1	C4H8O2	Liquid	H225,H303,H319,H333,H335,H351,H413	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	2.5	2.5	L	Glass Bottle
4'-Pentyl-4-biphenylcarbonitrile		40817-08-1	C18H19N	Liquid	H332,H319,H315,H312,H335,H302	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	g	Glass Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	mL	Glass Bottle
Hexanoic acid		142-62-1	C6H12O2	Liquid	H290,H314,H318,H402	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	mL	Glass Bottle
Cyclohexane		110-82-7	C6H12	Liquid	H225,H304,H313,H315,H336,H400,H410	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	mL	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Ghosh's Laboratory [WG]	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder

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Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Ghosh's Laboratory [WG]	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder
Lead(II) iodide		10101-63-0	I2Pb	Solid	H302,H332,H360,H373,H400,H410	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	50	50	g	Glass Bottle
Lead(II) acetate trihydrate		6080-56-4	C4H12O7Pb	Solid	H303,H360,H400	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	100	100	g	Plastic Bottle
Lead(II) chloride		7758-95-4	Cl2Pb	Solid	H302,H332,H351,H360,H372,H373,H400,H410	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	50	50	g	Plastic Bottle
Helium (gas)	HELIUM HIGH PURITY	7440-59-7	He	Gas	H280	Ghosh's Laboratory [WG]	Science and Engineering Building	First Floor	144A	Not in Specific Location	218	218	ft3	Cylinder
N,N-Dimethylformamide		68-12-2	C3H7NO	Liquid	H226,H303,H312,H316,H319,H332,H360,H360	Ghosh's Laboratory [WG]	Science and Engineering Building	Third Floor	371	Not in Specific Location	1	1	L	Glass Bottle

Chemical Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
Agarose	9012-36-6		Solid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	5	5	g	Glass Bottle
AE Buffer		N/A	Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	60	60	mL	Glass Bottle
Ethanol, denatured	64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	L	Plastic Bottle
AE Buffer		N/A	Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	50	50	mL	Glass Bottle
Buffer ATL Tissue Lysis buffer	151-21-3		Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	60	60	mL	Glass Bottle
Bovine serum albumin solution	7732-18-5, 9048-46-8		Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	mL	Glass Bottle
Bovine serum albumin solution	7732-18-5, 9048-46-8		Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	mL	Glass Bottle
Methylene Blue trihydrate	7220-79-3	C16H24ClN3O3S	Liquid	H302	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	50	50	mL	Glass Bottle
DNeasy Blood & Tissue Kit			Liquid	H315,H319,H302 + H332,H334	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	mL	Glass Bottle
123 bp DNA Ladder for DNA electrophoresis			Solid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	150	150	µL	Glass Bottle
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle
AE Buffer		N/A	Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	60	60	mL	Glass Bottle
Agarose	9012-36-6		Solid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	5	5	g	Glass Bottle
Buffer AW1 Wash buffer 1	50-01-1		Liquid	H302,H315,H319,H332	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	50	50	mL	Plastic Bottle
Methylene Blue trihydrate	7220-79-3	C16H24ClN3O3S	Liquid	H302	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	50	50	mL	Glass Bottle
Ethanol, denatured	64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	L	Plastic Bottle
Buffer AW1 Wash buffer 1	50-01-1		Liquid	H302,H315,H319,H332	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	225	225	mL	Plastic Bottle
Bovine serum albumin solution	7732-18-5, 9048-46-8		Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	mL	Glass Bottle
Ethanol, denatured	64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	L	Plastic Bottle
Ethidium bromide	1239-45-8	C21H20BrN3	Solid	H302,H330,H341	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	0.5	0.5	L	Plastic Bottle
Buffer AL Lysis buffer	50-01-1 , 110-16-7		Liquid	H315,H317,H319	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	60	60	mL	Glass Bottle
Methylene Blue trihydrate	7220-79-3	C16H24ClN3O3S	Liquid	H302	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	250	250	mL	Glass Bottle
EDTA Solution	7732-18-5, 60-00-4		Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	100	100	mL	Glass Bottle
Buffer AL Lysis buffer	50-01-1 , 110-16-7		Liquid	H315,H317,H319	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	12	12	mL	Glass Bottle
Bovine serum albumin solution	7732-18-5, 9048-46-8		Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	mL	Glass Bottle
Formamide	75-12-7	CH3NO	Liquid	H313,H318,H331,H333,H340,H351,H360,H373	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	5	5	mL	Glass Bottle
Formamide	75-12-7	CH3NO	Liquid	H313,H318,H331,H333,H340,H351,H360,H373	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	5	5	mL	Glass Bottle
Formamide	75-12-7	CH3NO	Liquid	H313,H318,H331,H333,H340,H351,H360,H373	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	5	5	mL	Glass Bottle
Sodium chloride	7647-14-5	ClNa	Solid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	500	500	g	Glass Bottle
Tris-Borate-EDTA (TBE) buffer solution, 10X	6381-92-6, 7732-18-5, 77-86-1, 10043-35-3		Liquid	H360,H303,H315,H319,H320,H335,H361	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	50	50	mL	Glass Bottle
Proteinase K	39450-01-6	C29H27N2O12P	Solid	H315,H319,H334,H335	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	6	6	mL	Glass Bottle
Quant-iT Qubit dsDNA HS Assay Kit	, , ,		Liquid	H227	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	200	200	µL	Glass Bottle
Quant-iT Qubit dsDNA HS Assay Kit	, , ,		Liquid	H227	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	200	200	µL	Glass Bottle
Quant-iT Qubit dsDNA HS Assay Kit	, , ,		Liquid	H227	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	50	50	µL	Glass Bottle
T4 DNA ligase	9015-85-4		Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	mL	Glass Bottle
Quant-iT Qubit dsDNA HS Assay Kit	, , ,		Liquid	H227	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	50	50	µL	Glass Bottle

Tris-Borate-EDTA (TBE) buffer solution, 10X	6381-92-6, 7732-18-5, 77-86-1, 10043-35-3		Liquid	H360,H303,H315,H319,H320,H335,H361	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle
Quant-iT Qubit Protein Assay Kit			Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	L	Glass Bottle
Invitrogen T4 DNA Ligase Buffer			Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	mL	Glass Bottle
Tris base	77-86-1	C4H11NO3	Solid	H315,H319,H335	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	100	100	mL	Glass Bottle
Invitrogen T4 DNA Ligase Buffer			Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	mL	Glass Bottle
Quant-iT dsDNA Assay Kit, Broad Range			Liquid		Joyce Lab [WG]	Castle Building 1201	First Floor	1300	1	1	L	Glass Bottle
Tris-Borate-EDTA (TBE) buffer solution, 10X	6381-92-6, 7732-18-5, 77-86-1, 10043-35-3		Liquid	H360,H303,H315,H319,H320,H335,H361	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	75	75	mL	Glass Bottle
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Joyce Lab [WG]	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type	Concentration	Concentration Units
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Quantum Matter Group	Science and Engineering Building	Third Floor	377	1	1	L	Glass Bottle		
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370, H372	Quantum Matter Group	Science and Engineering Building	Third Floor	377	1	1	L	Glass Bottle		
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Quantum Matter Group	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder		
Silver Paint				Liquid		Quantum Matter Group	Science and Engineering Building	Third Floor	377	30	30	g	Glass Bottle		
Graphite		7782-42-5	C	Solid	H228,H319,H335	Quantum Matter Group	Science and Engineering Building	Third Floor	377	1	1	mg	Plastic Bottle		
Helium (gas)		7440-59-7	He	Gas	H280	Quantum Matter Group	Science and Engineering Building	First Floor	144A	218	218	ft3	Cylinder		
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Quantum Matter Group	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder		
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370, H372	Quantum Matter Group	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle		
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370, H372	Quantum Matter Group	Science and Engineering Building	Third Floor	377	5	5	mL	Glass Bottle		
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Quantum Matter Group	Science and Engineering Building	Third Floor	377	228	228	ft3	Cylinder		
Aluminium foil		7429-90-5	Al	Solid	H400	Quantum Matter Group	Science and Engineering Building	Third Floor	377	1	1	g	Can		
Nitrogen (Liquid)		7727-37-9	N2	Liquid	H280,H281	Quantum Matter Group	Science and Engineering Building	Third Floor	377	240	240	L	Cryogenic Dewar		
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370, H372	Quantum Matter Group	Science and Engineering Building	Third Floor	377	1	1	L	Glass Bottle		
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370, H372	Quantum Matter Group	Science and Engineering Building	Third Floor	377	5	5	mL	Glass Bottle		
Propylene glycol		57-55-6	C3H8O2	Liquid	H316,H320	Quantum Matter Group	Science and Engineering Building	Third Floor	377	50	50	mL	Plastic Bottle		
Tin-base solder (lead free)				Solid		Quantum Matter Group	Science and Engineering Building	Third Floor	377	48	48	g	Other		
2235 Water Soluble Soldering Flux		67-63-0, 79-14-1, , 56-81-5		Liquid	H225,H315,H318,H336	Quantum Matter Group	Science and Engineering Building	Third Floor	377	48	48	g	Other		
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370, H372	Quantum Matter Group	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle		
Molybdenum(IV) sulfide	Molybdenum(IV) sulfide powder, <2 mum, 99%	1317-33-5	MoS2	Solid		Quantum Matter Group	Science and Engineering Building	Third Floor	377	85	80	g	Plastic Bottle	99.8	% wt.
Carbol Xylol		108-38-3, 108-95-2, 100-41-4, 95-47-6, 106-42-3		Liquid	H224,H312,H315 + H320,H401,H351,H314	Quantum Matter Group	Science and Engineering Building		377	1	0.75	qt	Can	99.9	% vol.
Argon (gas)	Argon (HP)	7440-37-1	Ar	Gas	H280	Quantum Matter Group	Science and Engineering Building	Third Floor	377	218	218	ft3	Cylinder		
Helium (gas)		7440-59-7	He	Gas	H280	Quantum Matter Group	Science and Engineering Building	First Floor	144A	218	218	ft3	Cylinder		
Helium (gas)	HELIUM, UHP GR 5.0 SIZE 300 CGA 580	7440-59-7	He	Gas	H280	Quantum Matter Group	Science and Engineering Building	First Floor	144A	218	218	ft3	Cylinder		
Helium (gas)	HELIUM, UHP GR 5.0 SIZE 300 CGA 580	7440-59-7	He	Gas	H280	Quantum Matter Group	Science and Engineering Building	First Floor	144A	218	218	ft3	Cylinder		

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Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Nur	Sublocation	Size	Amount	Units	Container Type	Concentration	Concentration Units	Solvent
N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride		25952-53-8	C8H18ClN3	Solid	H315,H318,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	g	Glass Bottle			
1-Undecanethiol		5332-52-5	C11H24S	Liquid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
1-Decanethiol		143-10-2	C10H22S	Liquid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	50	50	mL	Glass Bottle			
N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride		25952-53-8	C8H18ClN3	Solid	H315,H318,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			
2-Butanol		78-92-2	C4H10O	Liquid	H226,H303,H319,H335,H336	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2.5	2.5	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Calcium chloride hexahydrate		7774-34-7	CaCl2H12O6	Solid	H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	g	Plastic Bottle			
Carbon disulfide		75-15-0	CS2	Liquid	H225,H302,H315,H319,H332,H361,H372,H401	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	mL	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Iron(III) nitrate nonahydrate	Ferric nitrate, nonahydrate ACS Reagent	7782-61-8	FeH18N3O18	Solid	H303,H314,H318,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Glass Bottle			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Sodium ascorbate	L-Ascorbic acid sodium salt, 99%	134-03-2	C6H7NaO6	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Glass Bottle			
Manganese(II) acetate tetrahydrate		6156-78-1	C4H14MnO8	Solid	H303,H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	g	Glass Bottle			
Bis(10-carboxydecyl)disulfide 99%		23483-56-9	C22H42O4S2	Solid	H319,H315,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	228	228	ft3	Cylinder			
Gold(III) chloride hydrate		27988-77-8	AuCl4H3O	Liquid	H302,H314,H317,H318	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Glass Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	L	Glass Bottle			
Nitric acid, red fuming		7697-37-2	HNO3	Liquid	H272,H290,H311,H314,H318,H331,H333	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2.5	2.5	L	Glass Bottle			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	212	212	ft3	Cylinder			
Oleylamine		112-90-3	C18H37N	Liquid	H302,H304,H314,H318,H335,H373,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	mL	Glass Bottle			
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	mL	Glass Bottle			
11-Azido-3,6,9-trioxaundecan-1-amine		134179-38-7	C8H18N4O3	Liquid	H318,H314	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	mL	Glass Bottle			
4-Mercaptopyridine		4556-23-4	C5H5NS	Solid	H319,H315,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	g	Glass Bottle			
Acrylamide/Bis-acrylamide, 40% solution, 29:1		7732-18-5, 79-06-1, 110-26-9		Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H402	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	mL	Glass Bottle			
Bis(10-carboxydecyl)disulfide 99%		23483-56-9	C22H42O4S2	Solid	H319,H315,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
Dichloromethane, stabilized		75-09-2	CH2Cl2	Liquid	H303,H313,H315,H319,H335,H336,H351,H373	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Dodecylamine		124-22-1	C12H27N	Solid	H410,H318,H335,H373,H400,H314,H304	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Glass Bottle			
HEPES potassium salt		82207-62-3	C8H17KN2O4S	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
Potassium chloride		7447-40-7	ClK	Solid	H303	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	50	50	g	Plastic Bottle			
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	10	10	g	Glass Bottle			
1-Bromooctane		111-83-1	C8H17Br	Liquid	H400,H227,H303,H410	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	5	g	Glass Bottle			
1-Dodecanethiol		112-55-0	C12H26S	Liquid	H303,H313,H314,H318,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	mL	Glass Bottle			
1-Heptyne		628-71-7	C7H12	Liquid	H315,H319,H225,H335,H304	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	mL	Glass Bottle			
Octadecylamine		124-30-1	C18H39N	Solid	H301,H303,H304,H315,H318,H319,H335,H373,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
Sodium 3-mercapto-1-propanesulfonate		17636-10-1	C3H7NaO3S2	Solid	H319,H315,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Plastic Bottle			
9-Mercapto-1-nonanol 96%		131215-92-4	C9H20OS	Liquid	H319,H315,H335,H302	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	g	Glass Bottle			
Dichloromethane, stabilized	Dichloromethane, 99.9%, Extra Dry, stabilized, AcroSeal, ACROS Organics	75-09-2	CH2Cl2	Liquid	H303,H313,H315,H319,H335,H336,H351,H373	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	mL	Glass Bottle			
EDTA		60-00-4	C10H16N2O8	Solid	H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	g	Plastic Bottle			
Hydrogen		1333-74-0	H2	Gas	H220,H280,H280,H280	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	196	196	ft3	Cylinder			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Plastic Bottle			
Ethyldiisopropylamine	N,N-Diisopropylethylamine	7087-68-5	C8H19N	Liquid	H225,H301,H302,H316,H318,H331,H335,H402	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	50	50	mL	Glass Bottle			
Potassium perchlorate		7778-74-7	ClKO4	Solid	H271,H302	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Glass Bottle			
16-Mercaptohexadecanoic acid		69839-68-5	C16H32O2S	Solid	H413	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
1-Hexanethiol		111-31-9	C6H14S	Liquid	H226,H302,H331	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	mL	Glass Bottle			
3-Aminopropyltrimethoxysilane		13822-56-5	C6H17NO3Si	Liquid	H227,H318,H315,H303	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	mL	Glass Bottle			
6-Mercaptohexanoic acid		17689-17-7	C6H12O2S	Liquid	H319,H335,H315	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	g	Glass Bottle			
Carbon, activated		7440-44-0	C	Solid	H228,H252	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	454	454	g	Can			
Cetrimonium bromide	Cetyltrimethyl ammonium bromide	57-09-0	C19H42BrN	Solid	H302,H315,H318,H335,H373,H400	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Agarose		9012-36-6		Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Plastic Bottle			
Hexaammineruthenium(III) chloride		14282-91-8	Cl3H18N6Ru	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
Hydrochloric acid, 25-<37% solution in water		7647-01-0	HCl	Liquid	H290,H314,H318,H332,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2.5	2.5	L	Glass Bottle			
Nitric acid, red fuming		7697-37-2	HNO3	Liquid	H272,H290,H311,H314,H318,H331,H333	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2.5	2.5	L	Glass Bottle			
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	Ye group	Science and Engineering Building	First Floor	144A	Not in Specific Location	228	228	ft3	Cylinder			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	228	228	ft3	Cylinder			
N,N,N',N'-Tetramethylethylenediamine		110-18-9	C6H16N2	Liquid	H225,H301,H302,H314,H314,H314,H318,H331,H332	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	20	20	g	Glass Bottle			

Ye, Tao
BSP Basement

Perchloric acid aqueous solution 70%		7601-90-3	ClHO4	Liquid	H314,H318,H302,H271,H314,H290,H302 + H312,H373	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mL	Glass Bottle			
1-Decanethiol		143-10-2	C10H22S	Liquid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	50	50	mL	Glass Bottle			
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Glass Bottle			
Calcium acetate monohydrate		5743-26-0	C4H8CaO5	Solid	H303	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	g	Plastic Bottle			
Copper(I) acetate		598-54-9	C2H3CuO2	Solid	H315,H335,H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	g	Plastic Bottle			
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Plastic Bottle			
L-Ascorbic acid		50-81-7	C6H8O6	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
11-Mercaptoundecanoic acid		71310-21-9	C11H22O2S	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
1-Octanethiol		111-88-6	C8H18S	Liquid	H227,H315,H317,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	mL	Glass Bottle			
Adenosine 5'-monophosphate sodium salt hydrate		149022-20-8	C10H14N5O7P · xNa+ · yH2O	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	5	mL	Glass Bottle			
Ammonium persulfate		7727-54-0	H8N2O8S2	Solid	H272,H301,H302,H312,H313,H315,H317,H319,H334,H335,H402	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	25	25	g	Glass Bottle			
Gold(III) chloride hydrate		27988-77-8	AuCl4H3O	Solid	H302,H314,H317,H318	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2	2	g	Plastic Bottle			
Hydrogen		1333-74-0	H2	Gas	H220,H280,H280,H280	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	196	196	ft3	Cylinder			
Potassium phosphate monobasic		7778-77-0	H2KO4P	Solid	H313,H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	g	Plastic Bottle			
11-Azido-3,6,9-trioxaundecan-1-amine		134179-38-7	C8H18N4O3	Liquid	H318,H314	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	mL	Glass Bottle			
11-(Ferrocenyl)undecanethiol 95%		127087-36-9	C21H32FeS	Solid	H335,H319,H315	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
16-Mercaptohexadecanoic acid		69839-68-5	C16H32O2S	Solid	H413	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
4,4',5,5'-BIS(PENTAMETHYLENE)TETRATHIAFULVALENE		61940-34-9		Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	50	50	mg	Glass Bottle			
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Ammonium hydroxide, 25-30% solution in water		1336-21-6		Liquid	H302,H314,H318,H400,H411	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	mL	Glass Bottle			
Cobalt(II) acetate tetrahydrate		6147-53-1	C4H14CoO8	Solid	H302,H315,H317,H320,H341,H351,H400,H410,H334,H335,H360	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	50	50	g	Plastic Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Magnesium chloride hexahydrate		7791-18-6	Cl2Mg · 6H2O	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	g	Plastic Bottle			
Propylene carbonate		108-32-7	C4H6O3	Liquid	H313,H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	mL	Plastic Bottle			
11-Amino-1-undecanethiol hydrochloride		143339-58-6	C11H26ClNS	Solid	H335,H319,H315	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	mg	Glass Bottle			
Copper(II) sulfate pentahydrate		7758-99-8	CuH10O9S	Solid	H301,H302,H313,H315,H319,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	g	Glass Bottle			
Argon (gas)		7440-37-1	Ar	Gas	H280	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	222	222	ft3	Cylinder			
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Plastic Bottle			
Iodine		7553-56-2	I2	Solid	H312,H315,H319,H332,H335,H372,H400	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Plastic Bottle			
Polyvinylpyrrolidone		9003-39-8	C6H9NO	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Bovine serum albumin	ALBUMIN BOVINE	9048-46-8		Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
Bis(10-carboxydecyl)disulfide 99%		23483-56-9	C22H42O4S2	Solid	H319,H315,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
DL-Dithiothreitol, 1M aqueous solution		3483-12-3		Liquid	H303,H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	10	10	mL	Glass Bottle			
Ethyl acetate		141-78-6	C4H8O2	Liquid	H225,H319,H333,H336	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
11-(Ferrocenyl)undecanethiol 95%		127087-36-9	C21H32FeS	Solid	H335,H319,H315	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	mg	Glass Bottle			
guanidine hydrochloride solution		50-01-1, 7732-18-5		Liquid	H302,H332,H319,H315	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	31	31	mL	Plastic Bottle			
guanidine hydrochloride solution		50-01-1, 7732-18-5		Liquid	H302,H332,H319,H315	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	31	31	mL	Plastic Bottle			
Cetrimonium bromide	Cetyltrimethyl ammonium bromide	57-09-0	C19H42BrN	Solid	H302,H315,H318,H335,H373,H400	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
Dichloromethane	Methylene Chloride, BAKER ANALYZED A.C.S. Reagent, J.T.Baker	75-09-2	CH2Cl2	Liquid	H302,H303,H313,H315,H319,H320,H335,H336,H351,H373	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Nickel(II) acetate tetrahydrate		6018-89-9	C4H14NiO8	Solid	H302,H317,H332,H334,H341,H350,H360,H372,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			
Petroleum ether		8032-32-4		Liquid	H224,H225,H303,H304,H313,H315,H336,H340,H350,H401,H411	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Potassium ferricyanide(III)		13746-66-2	C6FeK3N6	Solid	H303	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Glass Bottle			
Potassium iodide		7681-11-0	IK	Solid	H302,H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	g	Plastic Bottle			
1-Octadecene		112-88-9	C18H36	Liquid	H304,H316	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	5	mL	Glass Bottle			
1-Octanol		111-87-5	C8H18O	Liquid	H227,H313,H315,H316,H319,H402,H412	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	0.5	0.5	L	Glass Bottle			
9-Mercapto-1-nonanol 96%		131215-92-4	C9H20OS	Liquid	H319,H315,H335,H302	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	g	Glass Bottle			
Agarose		9012-36-6		Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Plastic Bottle			
Formamide		75-12-7	CH3NO	Liquid	H313,H318,H331,H333,H340,H351,H360,H373	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	250	250	g	Glass Bottle			
Hexadecyltrimethylammonium chloride		112-02-7	C19H42ClN	Solid	H315,H318,H313,H400,H302,H311,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	10	10	g	Glass Bottle			
Hexane, mixture of isomers (Hexanes)		92112-69-1	C6H12	Liquid	H225,H302,H304,H315,H319,H335,H336,H361,H371,H373,H401,H411	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	20	20	L	Can			
Magnesium acetate tetrahydrate		16674-78-5	C4H14MgO8	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	g	Glass Bottle			
Methanesulfonic acid		75-75-2	CH4O3S	Liquid	H290,H302,H312,H314,H318,H335,H401	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	250	250	mL	Glass Bottle			
Nitric acid, red fuming		7697-37-2	HNO3	Liquid	H272,H290,H311,H314,H318,H331,H333	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Glass Bottle			
11-Amino-1-undecanethiol hydrochloride		143339-58-6	C11H26ClNS	Solid	H335,H319,H315	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	mg	Glass Bottle			
N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride		25952-53-8	C8H18ClN3	Solid	H315,H318,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			

1-Octadecanethiol		2885-00-9	C18H38S	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	mL	Glass Bottle			
1-Octene		111-66-0	C8H16	Liquid	H225,H304,H315,H316,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	mL	Glass Bottle			
6-Heptynoic acid		30964-00-2	C7H10O2	Liquid	H302,H312,H314,H315,H318,H319,H332,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	g	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Ammonium hydroxide, 25-30% solution in water		1336-21-6		Liquid	H302,H314,H318,H400,H411	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2.5	2.5	L	Glass Bottle			
11-Mercapto-1-undecanol		73768-94-2	C11H24OS	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	g	Glass Bottle			
1-Bromooctane		111-83-1	C8H17Br	Liquid	H400,H227,H303,H410	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	5	g	Glass Bottle			
1-Hexadecene		629-73-2	C16H32	Liquid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	mL	Glass Bottle			
3-Mercaptopropionic acid		107-96-0	C3H6O2S	Liquid	H227,H301,H314,H318,H290,H332,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	mL	Glass Bottle			
Ammonium hydroxide, 25-30% solution in water		1336-21-6		Liquid	H302,H314,H318,H400,H411	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Carbon disulfide		75-15-0	CS2	Liquid	H225,H302,H315,H319,H332,H361,H372,H401	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	mL	Glass Bottle			
Carbon disulfide		75-15-0	CS2	Liquid	H225,H302,H315,H319,H332,H361,H372,H401	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	mL	Glass Bottle			
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Ethylene glycol		107-21-1	C2H6O2	Liquid	H302,H373	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	L	Glass Bottle			
1H,1H,2H,2H-Perfluorodecyltrichlorosilane		78560-44-8	C10H4Cl3F17Si	Liquid	H314,H318	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	mL	Glass Bottle			
Hydrochloric acid, 25-<37% solution in water		7647-01-0	HCl	Liquid	H290,H314,H318,H332,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2.5	2.5	L	Glass Bottle			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	228	228	ft3	Cylinder			
N,N'-Dicyclohexylcarbodiimide		538-75-0	C13H22N2	Solid	H302,H311,H317,H318	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	g	Glass Bottle			
Potassium hydroxide solution		7732-18-5, 1310-58-3		Liquid	H318,H315	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	kg	Plastic Bottle			
Hexadecyltrimethylammonium chloride		112-02-7	C19H42ClN	Solid	H315,H318,H313,H400,H302,H311,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	10	10	g	Glass Bottle			
Hexane, mixture of isomers (Hexanes)		92112-69-1	C6H12	Liquid	H225,H302,H304,H315,H319,H335,H336,H361,H371,H373,H401,H411	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Plastic Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	L	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	L	Glass Bottle			
Molecular sieves				Solid	H319,H331,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	g	Glass Bottle			
PAMAM Dendrimer Kit, generations 4-7				Liquid	H311,H370,H301,H225,H331	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2	2	L	Glass Bottle			
11-Mercaptoundecylphosphonic acid		156125-36-9	C11H25O3PS	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	mg	Glass Bottle			
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Dithioerythritol		6892-68-8	C4H10O2S2	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	5	g	Glass Bottle			
N-Hydroxysuccinimide		6066-82-6	C4H5NO3	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
16-Carboxyhexadecyl disulfide 97%		112122-99-3	C34H66O4S2	Solid	H315,H335,H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	mg	Glass Bottle			
6-Mercapto-1-hexanol		1633-78-9	C6H14OS	Liquid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	5	mL	Glass Bottle			
6-Mercapto-1-hexanol		1633-78-9	C6H14OS	Liquid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	5	mL	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Sodium phosphate dibasic dihydrate		10028-24-7	H5Na2O6P	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	g	Glass Bottle			
Ethanolamine		141-43-5	C2H7NO	Liquid	H227,H302,H312,H314,H318,H332,H335,H401,H412	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Glass Bottle			
EDTA		60-00-4	C10H16N2O8	Solid	H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	g	Plastic Bottle			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Phenylboronic acid		98-80-6	C6H7BO2	Solid	H302,H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	10	10	g	Glass Bottle			
Potassium chloride		7447-40-7	ClK	Solid	H303	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	g	Plastic Bottle			
Propylene carbonate		108-32-7	C4H6O3	Liquid	H313,H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	mL	Plastic Bottle			
Manganese(II) acetate tetrahydrate		6156-78-1	C4H14MnO8	Solid	H303,H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
Mineral oil		8042-47-5		Liquid	H304	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	L	Glass Bottle			
N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride		25952-53-8	C8H18ClN3	Solid	H315,H318,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	g	Glass Bottle			
Potassium iodate		7758-05-6	IKO3	Solid	H272,H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Plastic Bottle			
Silver nitrate		7761-88-8	AgNO3	Solid	H272,H272,H290,H302,H314,H314,H318,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			
Tetrahydrofuran, stabilized		109-99-9	C4H8O	Liquid	H225,H302,H316,H319,H335,H351	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Tetraoctadecylammonium bromide		63462-99-7	C72H148BrN	Solid	H315,H335,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			
Tris(2-carboxyethyl)phosphine hydrochloride		51805-45-9	C9H16ClO6P	Solid	H303,H313,H314,H318	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	g	Glass Bottle			
Sodium acetate trihydrate		6131-90-4	C2H9NaO5	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Glass Bottle			
Sulfuric acid		7664-93-9	H2O4S	Liquid	H318,H290,H303,H314,H350,H330	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2.5	2.5	L	Glass Bottle			
Tannic acid		1401-55-4	C76H52O46	Solid	H303,H402,H412	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	125	125	g	Glass Bottle			
Tetraethylammonium tetrafluoroborate		429-06-1	C8H20BF4N	Solid	H302,H312,H315,H319,H332,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			
Trichlorosilane		10025-78-2	Cl3Si	Liquid	H224,H250,H302,H314,H318,H331,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			
Tris-Acetate-EDTA (TAE) buffer solution, 10X		64-19-7, 77-86-1, 6381-92-6, 7732-18-5		Liquid	H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Glass Bottle			
Strontium acetate		543-94-2	C4H6O4Sr	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	g	Glass Bottle			
Tetraoctylammonium bromide		14866-33-2	C32H68BrN	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	10	10	g	Glass Bottle			
Sodium chloride		7647-14-5	ClNa	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			

Sodium chloride		7647-14-5	ClNa	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	20	20	g	Plastic Bottle			
Sodium citrate dihydrate		6132-04-3	C6H9Na3O9	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			
Sodium sulfate		7757-82-6	Na2O4S	Solid	H402	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Glass Bottle			
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	25	25	mL	Glass Bottle			
Tris-Borate-EDTA (TBE) buffer solution, 10X		6381-92-6, 7732-18-5, 77-86-1, 10043-35-3		Liquid	H360,H303,H315,H319,H320,H335,H361	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Plastic Bottle			
Tris-Borate-EDTA (TBE) buffer solution, 10X		6381-92-6, 7732-18-5, 77-86-1, 10043-35-3		Liquid	H360,H303,H315,H319,H320,H335,H361	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Plastic Bottle			
Tris hydrochloride		1185-53-1	C4H12ClNO3	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	g	Glass Bottle			
Trolox		53188-07-1	C14H18O4	Solid	H319,H335,H303,H315	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	g	Glass Bottle			
Tetraethylammonium tetrafluoroborate		429-06-1	C8H20BF4N	Solid	H302,H312,H315,H319,H332,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			
Sodium chloride		7647-14-5	ClNa	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			
Sulfuric acid		7664-93-9	H2O4S	Liquid	H318,H290,H303,H314,H350,H330	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2.5	2.5	L	Glass Bottle			
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H412	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	g	Plastic Bottle			
Tetraoctylammonium bromide		14866-33-2	C32H68BrN	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			
Thiourea		62-56-6	CH4N2S	Solid	H302,H313,H351,H361,H401,H411	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	g	Plastic Bottle			
Tris acetate salt		6850-28-8	C6H15NO5	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	25	25	g	Plastic Bottle			
Sylgard 184 silicone elastomer curing agent				Liquid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	10	10	mL	Plastic Bottle			
Sodium bicarbonate		144-55-8	CHNaO3	Solid	H303	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			
Trolox		53188-07-1	C14H18O4	Solid	H319,H335,H303,H315	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	g	Glass Bottle			
Sodium chloride		7647-14-5	ClNa	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			
Starch, 1% aqueous indicator solution		9005-25-8	C12H22O11	Liquid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Plastic Bottle			
Trioctylphosphine		4731-53-7	C24H51P	Liquid	H314,H318	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	25	25	mL	Glass Bottle			
Tris Acetate-EDTA (TAE) buffer solution, 50X		64-19-7, 7732-18-5, 77-86-1, 6381-92-6		Liquid	H314,H318,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Plastic Bottle			
Tris-Acetate-EDTA (TAE) buffer solution, 10X		64-19-7, 77-86-1, 6381-92-6, 7732-18-5		Liquid	H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Glass Bottle			
Silver nitrate		7761-88-8	AgNO3	Solid	H272,H272,H290,H302,H314,H314,H314,H318,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	25	25	g	Glass Bottle			
Sodium borohydride		16940-66-2	H4BNa	Solid	H260,H301,H311,H313,H314,H318,H331,H360,H361,H300 + H310 + H330	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	25	25	g	Plastic Bottle			
Triethylamine		121-44-8	C6H15N	Liquid	H225,H302,H311,H312,H314,H314,H314,H318,H331,H332,H335,H401	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Tris-Acetate-EDTA (TAE) buffer solution, 10X		64-19-7, 77-86-1, 6381-92-6, 7732-18-5		Liquid	H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Tris-Acetate-EDTA (TAE) buffer solution, 10X		64-19-7, 77-86-1, 6381-92-6, 7732-18-5		Liquid	H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Tris hydrochloride		1185-53-1	C4H12ClNO3	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	kg	Plastic Bottle			
10-Undecenoic acid		112-38-9	C11H20O2	Solid	H303,H315,H319,H335,H402,H412	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	250	250	g	Glass Bottle			
Sylgard 184 silicone elastomer base				Liquid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	433	433	mL	Plastic Bottle			
Sodium phosphate monobasic monohydrate		10049-21-5	H4NaO5P	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	25	25	g	Plastic Bottle			
Sodium thiosulfate pentahydrate		10102-17-7	H10Na2O8S2	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			
Toluene		108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2	2	L	Glass Bottle			
[11-(Methylcarbonylthio)undecyl]tri(ethylene glycol) acetic acid 95%		1262769-96-9	C20H38O7S	Solid	H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	250	250	mg	Glass Bottle			
Sodium nitrate		7631-99-4	NaNO3	Solid	H272,H272,H272,H272,H303,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			
Tris-Acetate-EDTA (TAE) buffer solution, 10X		64-19-7, 77-86-1, 6381-92-6, 7732-18-5		Liquid	H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	mL	Glass Bottle			
Tris-Acetate-EDTA (TAE) buffer solution, 10X		64-19-7, 77-86-1, 6381-92-6, 7732-18-5		Liquid	H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	4	4	L	Glass Bottle			
Tris-Borate-EDTA buffer 5x Concentrate		10043-35-3, 77-86-1, 7732-18-5, 6381-92-6		Liquid	H360	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Plastic Bottle			
Urea		57-13-6	CH4N2O	Solid		Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	2.5	2.5	kg	Plastic Bottle			
Sodium tetraborate decahydrate		1303-96-4	B4Na2O7 · 10H2O	Solid	H303,H361	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	500	500	g	Plastic Bottle			
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	kg	Plastic Bottle			
Tetrathiafulvalene		31366-25-3	C6H4S4	Solid	H317,H320,H402	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	250	250	mg	Glass Bottle			
Triethylamine		121-44-8	C6H15N	Liquid	H225,H302,H311,H312,H314,H314,H314,H318,H331,H332,H335,H401	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	100	100	mL	Glass Bottle			
Tris-Acetate-EDTA (TAE) buffer solution, 10X		64-19-7, 77-86-1, 6381-92-6, 7732-18-5		Liquid	H315,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	1	1	L	Glass Bottle			
Silver nitrate		7761-88-8	AgNO3	Solid	H272,H272,H290,H302,H314,H314,H314,H318,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	10	10	g	Plastic Bottle			
Tetraoctadecylammonium bromide		63462-99-7	C72H148BrN	Solid	H315,H335,H319	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	10	10	g	Glass Bottle			
Tetraoctylammonium bromide		14866-33-2	C32H68BrN	Solid	H315,H319,H335	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	5	5	g	Glass Bottle			
TWEEN 80		9005-65-6	C32H60O10	Liquid	H316,H320	Ye group	Science and Engineering Building	Second Floor	261	Science and Engineering Building - 261	125	125	mL	Plastic Bottle			
Hexane		110-54-3	C6H14	Liquid	H225,H304,H315,H320,H336,H361,H373,H401,H411	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	L	Plastic Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2	2	L	Glass Bottle			
Iron(II) chloride tetrahydrate		13478-10-9	Cl2FeH8O4	Solid	H302,H314,H315,H318	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	g	Glass Bottle			
Iron(III) chloride hexahydrate		10025-77-1	Cl3Fe · 6H2O	Solid	H290,H302,H314,H315,H318	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Plastic Bottle			
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	50	50	mL	Glass Bottle			
Tetrahydrofuran		109-99-9	C4H8O	Liquid	H225,H302,H316,H319,H335,H351	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			

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BSP Basement

Hexanoic acid		142-62-1	C6H12O2	Liquid	H290,H314,H318,H402	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	250	250	g	Glass Bottle			
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 C	7727-37-9	N2	Gas	H280	Ye group	Science and Engineering Building	First Floor	144A	Not in Specific Location	228	228	ft3	Cylinder			
Sulfuric acid		7664-93-9	H2O4S	Liquid	H318,H290,H303,H314,H350,H330	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Sodium		7440-23-5	Na	Solid	H260,H314,H318	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Glass Bottle			
Oleylamine		112-90-3	C18H37N	Liquid	H302,H304,H314,H318,H335,H373,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Glass Bottle			
Dichloromethane, stabilized	Dichloromethane, 99.9%, for peptide synthesis	75-09-2	CH2Cl2	Liquid	H303,H313,H315,H319,H335,H336,H351,H373	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Chloroform-d		865-49-6	CHCl3	Liquid	H302,H315,H319,H331,H351,H361,H372,H373,H332,H336	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	50	50	mL	Glass Bottle			
Carbon disulfide		75-15-0	CS2	Liquid	H225,H302,H315,H319,H332,H361,H372,H401	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Carbon disulfide		75-15-0	CS2	Liquid	H225,H302,H315,H319,H332,H361,H372,H401	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Tetramethylammonium hydroxide pentahydrate		10424-65-4	C4H23NO6	Solid	H300,H310,H311,H314,H318,H370,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Plastic Bottle			
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 C	7727-37-9	N2	Gas	H280	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	228	228	ft3	Cylinder			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	4	4	L	Glass Bottle			
Oleylamine	Oleylamine >=98% (primary amine)	112-90-3	C18H37N	Liquid	H302,H304,H314,H318,H335,H373,H400,H410	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	mL	Glass Bottle			
Gold(III) chloride hydrate		27988-77-8	AuCl4H3O	Solid	H302,H314,H317,H318	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	g	Glass Bottle			
Sodium citrate dihydrate		6132-04-3	C6H9Na3O9	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	g	Plastic Bottle			
Oleic acid		112-80-1	C18H34O2	Liquid	H315,H320	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	mL	Glass Bottle	99	% vol.	Hexane
1,2-Hexadecanediol		6920-24-7	C16H34O2	Solid		Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	3	g	Plastic Bottle	99	% wt.	Hexane
Iron(III) acetylacetonate		14024-18-1	C15H21FeO6	Solid	H302,H319	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	90	g	Glass Bottle	99	% wt.	Hexane
Ammonium fluoride		12125-01-8	H4FN	Solid	H331,H318,H301,H311	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	5	5	g	Plastic Bottle			
Acrylamide/Bis-acrylamide powder, 29:1		79-06-1, 110-26-9		Solid	H301,H312,H315,H317,H319,H332,H340,H350,H361,H372	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	g	Plastic Bottle			
Ethanol, 200 proof	Ethyl Alcohol, Pure, 200 Proof, ACS Grade, PHA	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	1	1	gal	Plastic Bottle			
Ammonium persulfate		7727-54-0	H8N2O8S2	Solid	H272,H301,H302,H312,H313,H315,H317,H319,H334,H335,H402	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	25	25	g	Glass Bottle			
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	500	500	mL	Glass Bottle			
Triethylamine		121-44-8	C6H15N	Liquid	H225,H302,H311,H312,H314,H314,H314,H318,H331,H332,H335,H401	Ye group	Science and Engineering Building	Second Floor	261	Not in Specific Location	100	100	mL	Glass Bottle			

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Kleckner Lab	Science and Engineering Building	Third Floor	381	500	500	mL	Glass Bottle
Ammonium hydroxide, 25-30% solution in water		1336-21-6		Liquid	H302,H314,H318,H400,H411	Kleckner Lab	Science and Engineering Building	Third Floor	381	500	500	mL	Glass Bottle
Isopropanol	2-Propanol (HPLC), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Other
Isopropanol	2-Propanol (HPLC), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Other
Isopropanol	2-Propanol (HPLC), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Decane		124-18-5	C10H22	Liquid	H226,H304	Kleckner Lab	Science and Engineering Building	Third Floor	381	100	100	mL	Glass Bottle
N,N,N',N'-Tetramethylethylenediamine		110-18-9	C6H16N2	Liquid	H225,H301,H302,H314,H314,H314,H318,H331,H332	Kleckner Lab	Science and Engineering Building	Third Floor	381	100	100	mL	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Decane		124-18-5	C10H22	Liquid	H226,H304	Kleckner Lab	Science and Engineering Building	Third Floor	381	500	500	mL	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	4	4	L	Glass Bottle
Sodium chloride		7647-14-5	ClNa	Solid		Kleckner Lab	Science and Engineering Building	Third Floor	381	500	500	g	Plastic Bottle
Sodium chloride	Sodium Chloride	7647-14-5	ClNa	Solid		Kleckner Lab	Science and Engineering Building	Third Floor	381	1	1	kg	Plastic Bottle
Coumarin 314	Coumarin 314, Laser grade, MP Biomedicals	55804-66-5	C18H19NO4	Solid	H315,H335,H319	Kleckner Lab	Science and Engineering Building	Third Floor	381	500	500	mg	Glass Bottle
Calcium chloride		10043-52-4	CaCl2	Solid	H303,H315,H319	Kleckner Lab	Science and Engineering Building	Third Floor	381	500	500	g	Plastic Bottle
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Kleckner Lab	Science and Engineering Building	Third Floor	381	500	500	mL	Glass Bottle
Magnesium sulfate		7487-88-9	MgO4S	Solid		Kleckner Lab	Science and Engineering Building	Third Floor	381	500	500	g	Plastic Bottle
Rhodamine 6G	Rhodamine 6G, 99%, pure, laser grade, ACROS Organics	989-38-8	C28H30N2O3 · HCl	Solid	H302,H315,H319,H335	Kleckner Lab	Science and Engineering Building	Third Floor	381	5	5	g	Glass Bottle
Perylene	Perylene >=99%	198-55-0	C20H12	Solid		Kleckner Lab	Science and Engineering Building	Third Floor	381	1	1	g	Glass Bottle
Dimethyl sulfoxide	Dimethyl Sulfoxide (Certified ACS), Fisher Chemical	67-68-5	C2H6OS	Liquid	H227,H320,H373	Kleckner Lab	Science and Engineering Building	Third Floor	381	100	100	mL	Glass Bottle
Fluorescein sodium salt	Fluorescein, sodium salt	518-47-8	C20H10Na2O5	Solid		Kleckner Lab	Science and Engineering Building	Third Floor	381	100	100	g	Plastic Bottle

Kleckner, D
BSP 1st Floor

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Sublocation	Size	Amount	Units	Container Type
SU-8 Developer		108-65-6, 70657-70-4		Liquid	H226,H360	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	4	4	L	Glass Bottle
1-Methoxy-2-propyl acetate		108-65-6	C6H12O3	Liquid	H226,H313	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	mL	Glass Bottle
Butane		106-97-8	C4H10	Liquid	H220,H280	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	100	mL	Can
Negative photoresist I		110-49-6, 9003-31-0, 95-47-6		Liquid	H332,H312,H360,H226,H304,H402,H319,H315,H412,H335	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	mL	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	4	4	L	Plastic Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	304	304	ft3	Cylinder
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	4	4	L	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	4	4	L	Glass Bottle
SU-8 Developer		108-65-6, 70657-70-4		Liquid	H226,H360	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	4	4	L	Glass Bottle
Negative photoresist I		110-49-6, 9003-31-0, 95-47-6		Liquid	H332,H312,H360,H226,H304,H402,H319,H315,H412,H335	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	mL	Glass Bottle
Potassium permanganate		7722-64-7	KMnO4	Solid	H272,H272,H272,H272,H302,H314,H314,H314,H318,H400,H410	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	100	g	Plastic Bottle
Fluorescein	Fluorescein (free acid)	2321-07-5	C20H12O5	Solid	H319	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	100	g	Glass Bottle
Polyethylene glycol (solid)	Poly (ethylene glycol)	25322-68-3	C2nH4n+2On+1	Solid	H316,H320	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	50	g	Plastic Bottle
Potassium phosphate monobasic	Potassium phosphate, monobasic	7778-77-0	H2KO4P	Solid	H313,H315,H319	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Plastic Bottle
Potassium phosphate dibasic	Potassium phosphate dibasic puriss., >=99%	7758-11-4	HK2O4P	Solid	H315,H319,H335	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	1	1	kg	Plastic Bottle
Sodium chloride	Sodium Chloride	7647-14-5	ClNa	Solid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Plastic Bottle
Ampicillin sodium salt	Ampicillin sodium salt	69-52-3	C16H18N3NaO4S	Solid	H317,H317,H317,H334,H334,H334	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	10	10	g	Glass Bottle
Peptone	Peptone	73049-73-7	C13H24O4	Solid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	100	g	Plastic Bottle
Peptone	Peptone	73049-73-7	C13H24O4	Solid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	30	g	Plastic Bottle
Tryptic soy broth	Bacto Tryptic Soy Broth (Soybean-Casein Digest Medium)	7647-14-5, 50-99-7, 91079-40-2, 7758-11-4, 91079-46-8, 1310-73-2, 7732-18-5		Solid	H316	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	100	g	Plastic Bottle
Tryptic soy broth	Bacto Tryptic Soy Broth (Soybean-Casein Digest Medium)	7647-14-5, 50-99-7, 91079-40-2, 7758-11-4, 91079-46-8, 1310-73-2, 7732-18-5		Solid	H316	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Plastic Bottle
Magnesium sulfate heptahydrate	Magnesium Sulfate Heptahydrate (USP/FCC), Fisher Chemical	10034-99-8	H14MgO11S	Solid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Plastic Bottle
Calcium chloride	Calcium Chloride Anhydrous	10043-52-4	CaCl2	Solid	H303,H315,H319	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	1	0.5	kg	Plastic Bottle
D-(+)-Xylose	D(+)-Xylose, 99+%, ACROS Organics	58-86-6	C5H10O5	Solid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	100	g	Plastic Bottle
Kanamycin sulfate	Kanamycin sulfate	25389-94-0	C18H36N4O11 · H2O4S	Solid	H303,H312,H332,H360,H360	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	5	5	g	Plastic Bottle
Tryptic soy agar	Difco Dehydrated Culture Media: Tryptic Soy Agar (Soybean-Casein Digest Agar)	7647-14-5, , 9012-36-6, 9000-71-9		Solid	H316	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Plastic Bottle
Sodium carboxymethyl cellulose		9004-32-4	(C2H4O3)x . (Na)x	Solid	H313,H402	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	100	g	Plastic Bottle
EDTA disodium salt dihydrate	Ethylenediaminetetraacetic acid disodium salt dihydrate	6381-92-6	C10H14N2Na2O8 · 2H2O	Solid	H303,H332,H373	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	100	100	g	Glass Bottle
Agar	Agar	9002-18-0	C14H24O9	Solid	H373	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Plastic Bottle
Yeast extract		8013-01-2		Solid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Plastic Bottle
Rhodamine B, Alfa Aesar	Rhodamine B, Alfa Aesar	81-88-9	C28H31ClN2O3	Solid	H318,H302	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	50	50	g	Glass Bottle
D-(+)-Glucose	D-(+)-Glucose anhydrous	50-99-7	C6H12O6	Solid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Glass Bottle
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	1	1	L	Glass Bottle
Zobell Marine Broth 2216	Zobell Marine Broth 2216	, , 7786-30-3, 10043-52-4, , , 1344-09-8, 6484-52-2, , , , 7447-40-7, 7758-02-3, 10043-35-3, 7681-49-4		Solid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	g	Plastic Bottle
Sylgard 184 Silicone Elastomer Kit	Sylgard 184 Silicone Elastomer Kit	,		Liquid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	1.1	1.1	lb	Plastic Bottle
Sylgard 184 Silicone Elastomer Kit	Sylgard 184 Silicone Elastomer Kit	,		Liquid		Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	1.1	0.55	lb	Plastic Bottle
SU-8 2000 Series	SU-8 2000 Series			Liquid	H226,H315,H319,H317,H341,H411	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	500	500	mL	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Liu Biofluids	Science and Engineering Building	Third Floor	381	Not in Specific Location	4	4	L	Glass Bottle

Liu, Bin
BSP First Floor

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
1-Bromooctane		111-83-1	C8H17Br	Liquid	H400,H227,H303,H410	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
2,2,2-Trifluoroethanol		75-89-8	C2H3F3O	Liquid	H226,H301,H312,H315,H318,H331,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	mL	Glass Bottle
1,2-dipalmitoyl-sn-glycero-3-phoshocholine		63-89-8	C40H80NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	g	Glass Bottle
1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine		923-61-5	C37H74NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
Isopropanol	2-Propanol for HPLC, >=9	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Glass Bottle
1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine		923-61-5	C37H74NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
1,2-dipalmitoyl-sn-glycero-3-phoshocholine		63-89-8	C40H80NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine		923-61-5	C37H74NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
1-[3-(Dimethylamino)propyl]-3-ethylcarbodiimide methiodide		22572-40-3	C9H20IN3	Solid	H335,H332,H319,H312,H315,H302	Hirst Lab	Science and Engineering Building	Third Floor	377C	10	10	g	Glass Bottle
1,2-dipalmitoyl-sn-glycero-3-phoshocholine		63-89-8	C40H80NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
1,2-dipalmitoyl-sn-glycero-3-phoshocholine		63-89-8	C40H80NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine		923-61-5	C37H74NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine		923-61-5	C37H74NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
1,2-dipalmitoyl-sn-glycero-3-phoshocholine		63-89-8	C40H80NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
2-Butanone		78-93-3	C4H8O	Liquid	H225,H303,H319,H333,H336	Hirst Lab	Science and Engineering Building	Third Floor	377C	2.5	2.5	L	Glass Bottle
2,4-Dihydroxybenzoic acid		89-86-1	C7H6O4	Solid	H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
2,6-Di-tert-butyl-4-methylphenol		128-37-0	C15H24O	Solid	H302,H319,H400,H410	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
2,4-Dihydroxybenzoic acid		89-86-1	C7H6O4	Solid	H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
1,2-dipalmitoyl-sn-glycero-3-phoshocholine		63-89-8	C40H80NO8P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mg	Glass Bottle
Ammonium persulfate		7727-54-0	H8N2O8S2	Solid	H272,H301,H302,H312,H313,H315,H317,H319,H334,H335,H402	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
3-Aminopropyltrimethoxysilane		13822-56-5	C6H17NO3Si	Liquid	H227,H318,H315,H303	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	mL	Glass Bottle
Air, compressed		132259-10-0		Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	212	212	ft3	Cylinder
Air, compressed		132259-10-0		Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	212	212	ft3	Cylinder
(+)-alpha-Tocopherol	(+)-α-Tocopherol from vegetable oil, Type V	59-02-9	C29H50O2	Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1000	1000	g	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Plastic Bottle
Acrylamide, 30% aqueous solution		79-06-1	C3H5NO	Liquid	H302,H315,H317,H317,H317,H319,H340,H340,H350,H350,H361,H372	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	L	Glass Bottle
4'-Octyl-4-biphenylcarbonitrile liquid crystal (nematic), 98%		52709-84-9	C21H25N	Liquid	H319,H332,H303,H312,H315,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	2	2	g	Glass Bottle
4'-PENTYL-BIPHENYL-4-CARBOXYLIC ACID			C18H20O2	Solid	H303,H400,H410	Hirst Lab	Science and Engineering Building	Third Floor	377C	3	3	g	Glass Bottle
Agarose		9012-36-6		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	g	Glass Bottle
6-Amino-1-hexanol		4048-33-3	C6H15NO	Solid	H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	50	50	g	Glass Bottle
Air, compressed		132259-10-0		Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	212	212	ft3	Cylinder
(+)-alpha-Tocopherol		59-02-9	C29H50O2	Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	g	Glass Bottle
(+)-alpha-Tocopherol		59-02-9	C29H50O2	Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	g	Glass Bottle
4,4'-Biphenol		92-88-6	C12H10O2	Solid	H303,H312,H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	10	10	g	Glass Bottle
4-(Octyloxy)benzoic acid 98%		2493-84-7	C15H22O3	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	10	10	g	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Plastic Bottle
Alpha Actinin 4 Protein				Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	30	30	µL	Glass Bottle
(+)-alpha-Tocopherol	(+)-α-Tocopherol from vegetable oil, Type V	59-02-9	C29H50O2	Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1000	1000	g	Glass Bottle

Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Plastic Bottle
Chloroform, stabilized		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H336,H351,H361,H372,H373,H402,H335,H360	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
Cholesterol		57-88-5	C27H46O	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	g	Glass Bottle
Matrigel Membrane Matrix				Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	10	10	mL	Glass Bottle
CdSe/CdS core-shell type quantum rods fluorescence lambdaem 530 nm, 5 mg/mL in hexane		143-27-1, 110-54-3, 4724-47-4, 1306-24-7, 1306-23-6		Liquid	H319,H315,H225,H350,H336,H372,H361,H341,H400,H373,H304,H411	Hirst Lab	Science and Engineering Building	Third Floor	377C	0.025	0.025	mL	Glass Bottle
Calcium chloride 0.1 M solution		7732-18-5, 10043-52-4	CaCl2	Liquid	H319	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	mL	Glass Bottle
BupH Tris-HEPES-SDS Running Buffer Packs				Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	2	2	gal	Glass Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	mL	Glass Bottle
Coumarin 6		38215-36-0	C20H18N2O2S	Solid	H302 + H312 + H332,H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	2	2	g	Glass Bottle
Catalase		9001-05-2		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	50	50	mg	Glass Bottle
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	mL	Glass Bottle
Methanesulfonyl chloride		124-63-0	CH3ClO2S	Liquid	H300,H310,H314,H318,H330,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	g	Glass Bottle
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	mL	Glass Bottle
EDTA		60-00-4	C10H16N2O8	Solid	H319	Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Indium		7440-74-6	In	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	10	10	g	Glass Bottle
Methanesulfonyl chloride		124-63-0	CH3ClO2S	Liquid	H300,H310,H314,H318,H330,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
D-(+)-Glucose		50-99-7	C6H12O6	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	kg	Glass Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
Merocyanine 540		62796-23-0	C26H32N3NaO6S2	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
L-α-Phosphatidylethanolamine from Semisynthetic from egg L-α-phosphatidylcholine		39382-08-6		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
2-Butanone	Methyl Ethyl Ketone (Tec	78-93-3	C4H8O	Liquid	H225,H303,H319,H333,H336	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
2-Butanone	Methyl Ethyl Ketone (Technical), Fisher Chemical	78-93-3	C4H8O	Liquid	H225,H303,H319,H333,H336	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
Methyl methacrylate		80-62-6	C5H8O2	Liquid	H225,H315,H317,H333,H335,H402	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	kg	Glass Bottle
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Hirst Lab	Science and Engineering Building	Third Floor	377C	2.5	2.5	L	Glass Bottle
Laemmli Lysis-buffer non smelling		7732-18-5, 77-86-1, 151-21-3, 3483-12-3, 115-39-9, 56-81-5		Liquid	H302,H402,H315,H318,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	mL	Glass Bottle
N,N'-Methylenebis(acrylamide)		110-26-9	C7H10N2O2	Solid	H302,H332	Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Filamin A Protein 1				Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	50	50	µL	Glass Bottle
Actin from porcine muscle lyophilized powder		51005-14-2		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	600	600	µL	Glass Bottle
Rhodamine B		81-88-9	C28H31ClN2O3	Solid	H302,H318,H402,H412	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	g	Glass Bottle
Methyl 2,4-dihydroxybenzoate		2150-47-2	C8H8O4	Liquid	H335,H402,H319,H315	Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mL	Glass Bottle
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	mL	Glass Bottle

Hexane		110-54-3	C6H14	Liquid	H225,H304,H315,H320,H336,H361,H373,H401,H411	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	L	Glass Bottle
L-α-Phosphatidylethanolamine from Semisynthetic from egg L-α-phosphatidylcholine		39382-08-6		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
Iodoethane		75-03-6	C2H5I	Liquid	H315,H317,H335,H302,H319,H333,H334	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	mL	Glass Bottle
L-α-Phosphatidylethanolamine from Semisynthetic from egg L-α-phosphatidylcholine		39382-08-6		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377C	2.5	2.5	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Diethylenetriaminepentaacetic acid		67-43-6	C14H23N3O10	Solid	H303,H319,H332,H361,H315,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	g	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	mL	Glass Bottle
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	mL	Glass Bottle
Actin from porcine muscle lyophilized powder		51005-14-2		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	600	600	µL	Glass Bottle
Gelsolin from Human Plasma		7732-18-5, 10049-21-5, , 75-89-8		Liquid	H302,H332,H315,H318	Hirst Lab	Science and Engineering Building	Third Floor	377C	80	80	µL	Glass Bottle
Glucose oxidase		9001-37-0	C6H12O6	Solid	H334	Hirst Lab	Science and Engineering Building	Third Floor	377C	0.26	0.26	g	Glass Bottle
Cetrimonium bromide	Hexadecyltrimethylammonium bromide ≥98	57-09-0	C19H42BrN	Solid	H302,H315,H318,H335,H373,H400	Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	Third Floor	377C	228	228	ft3	Cylinder
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
Magnesium chloride hexahydrate		7791-18-6	Cl2Mg · 6H2O	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	300	300	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377C	2	2	L	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Pierce Lane Marker Sample Buffers				Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	5	5	mL	Glass Bottle
L-α-Phosphatidylethanolamine from Semisynthetic from egg L-α-phosphatidylcholine		39382-08-6		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
MOPS-SDS running buffer (20X)		1132-61-2 , 77-86-1 , 151-21-3 , 139-33-3 , 7732-18-5		Liquid	H315,H319,H335,H316	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Plastic Bottle
O-Phospho-L-serine		407-41-0	C3H8NO6P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
NuPAGE Antioxidant		68-12-2		Liquid	H319,H360	Hirst Lab	Science and Engineering Building	Third Floor	377C	15	15	mL	Glass Bottle
Nylon 6/6		32131-17-2	C12H26N2O4	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Potassium iodide		7681-11-0	IK	Solid	H302,H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
O-Phospho-L-serine		407-41-0	C3H8NO6P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
Potassium chloride		7447-40-7	ClK	Solid	H303	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	g	Glass Bottle
O-Phospho-L-serine		407-41-0	C3H8NO6P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
Poly(4-hydroxy benzoic acid-co-ethylene terephthalate) 80 mol % in 4-hydroxybenzoic acid		125300-07-4		Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
Octadecyltrichlorosilane		112-04-9	C18H37Cl3Si	Liquid	H227,H314,H318	Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Novex Sharp Unstained Protein Standard				Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	50	50	µL	Glass Bottle
O-Phospho-L-serine		407-41-0	C3H8NO6P	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	mg	Glass Bottle
pH Electrode Storage Solution				Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	pint	Plastic Bottle
Polyethylene glycol (liquid)		25322-68-3	C2H4OnH2O	Liquid	H316,H320	Hirst Lab	Science and Engineering Building	Third Floor	377C	200	200	g	Glass Bottle
3M Fluorosurfactant FC-4430		1017237-78-3, 34590-94-8, 34454-97-2, 68298-12-4, 67584-5		Liquid	H360,H371,H373	Hirst Lab	Science and Engineering Building	Third Floor	377C	60	60	g	Glass Bottle
3M Fluorosurfactant FC-4430		1017237-78-3, 34590-94-8, 34454-97-2, 68298-12-4, 67584-5		Liquid	H360,H371,H373	Hirst Lab	Science and Engineering Building	Third Floor	377C	60	60	g	Glass Bottle
Polyethylenimine, linear (liquid)		9002-98-6	(C2H5N)n	Liquid	H302,H317,H319,H401,H411	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	mL	Glass Bottle
Poly(vinyl alcohol)		9002-89-5	C2H4O	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Poly(methyl methacrylate)		9011-14-7	[CH2C(CH3)(CO2CH3)]n	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Potassium chloride solution		7447-40-7	ClK	Liquid	H320,H402	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	mL	Glass Bottle
Phosphate buffered saline solution		7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Hirst Lab	Science and Engineering Building	Third Floor	377C	20	20	gal	Plastic Bottle

Poly(acrylic acid sodium salt)		9003-04-7	(C3H3NaO2)n	Solid	H319	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
Bradford Reagent		7664-38-2, 6104-58-1, 67-56-1, 7732-18-5		Liquid	H318,H370,H314,H290,H303	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	L	Glass Bottle
Potassium tert-butoxide		865-47-4	C4H9KO	Solid	H228,H314,H318	Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Propyl gallate		121-79-9	C10H12O5	Solid	H303,H317,H334	Hirst Lab	Science and Engineering Building	Third Floor	377C	200	200	g	Glass Bottle
4,4'-Biphenol		92-88-6	C12H10O2	Solid	H303,H312,H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	10	10	g	Glass Bottle
4,4'-Biphenol		92-88-6	C12H10O2	Solid	H303,H312,H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	10	10	g	Glass Bottle
Sodium hydroxide solution		1310-73-2	NaOH	Liquid	H402,H314,H318	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
Potassium tert-butoxide		865-47-4	C4H9KO	Solid	H228,H314,H318	Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Reference Electrode Filling Solution		7732-18-5, 7447-40-7, 9002-93-1, 7761-88-8		Liquid		Hirst Lab	Science and Engineering Building	Third Floor	377C	120	120	mL	Glass Bottle
SimplyBlue SafeStain		5949-29-1, 64-17-5		Liquid	H227	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	L	Glass Bottle
Sodium chloride		7647-14-5	ClNa	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
SU-8 series resists		96-48-0, 28906-96-9, 103-32-7, 89452-37-9, 71449-78-0		Liquid	H401,H331,H319,H315,H302,H317,H336,H335,H341	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle
Sucrose		57-50-1	C12H22O11	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	g	Glass Bottle
Toluene		108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	L	Glass Bottle
Tris acetate salt		6850-28-8	C6H15NO5	Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	25	25	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle
Thionyl chloride		7719-09-7	Cl2OS	Liquid	H302,H314,H318,H331	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	mL	Glass Bottle
Tris base		77-86-1	C4H11NO3	Solid	H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	1	1	kg	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle
Sylgard 184 silicone elastomer base				Solid		Hirst Lab	Science and Engineering Building	Third Floor	377C	8	8	L	Glass Bottle
N,N,N',N'-Tetramethylethylenediamine		110-18-9	C6H16N2	Liquid	H225,H301,H302,H314,H314,H314,H318,H331,H332	Hirst Lab	Science and Engineering Building	Third Floor	377C	500	500	mL	Glass Bottle
Toluene		108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	Hirst Lab	Science and Engineering Building	Third Floor	377C	2	2	L	Glass Bottle
1-Methoxy-2-propyl acetate		108-65-6	C6H12O3	Liquid	H226,H313	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Plastic Bottle
Tris hydrochloride		1185-53-1	C4H12ClNO3	Solid	H315,H319,H335	Hirst Lab	Science and Engineering Building	Third Floor	377C	100	100	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Plastic Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hirst Lab	Science and Engineering Building	Third Floor	377	4	4	L	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	228	228	ft3	Cylinder
Air, compressed		132259-10-0		Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	232	232	ft3	Cylinder
Air, compressed		132259-10-0		Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	232	232	ft3	Cylinder
Air, compressed		132259-10-0		Gas	H280	Hirst Lab	Science and Engineering Building	First Floor	144A	232	232	ft3	Cylinder

SU-8 Developer		108-65-6, 70657-70-4		Liquid	H226,H360	Hirst Lab	Science and Engineering Building	First Floor	144A	4	4	L	Plastic Bottle
SU-8 2000 Series				Liquid	H226,H315,H319,H317,H341,H411	Hirst Lab	Science and Engineering Building	First Floor	144A	500	500	mL	Glass Bottle
SU-8 2000 Series				Liquid	H226,H315,H319,H317,H341,H411	Hirst Lab	Science and Engineering Building	First Floor	144A	500	500	mL	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Hirst Lab	Science and Engineering Building	Third Floor	377C	4	4	L	Glass Bottle

Chemical Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
Polystyrene, 1% w/w aqueous suspension	9003-53-6		Liquid		Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	25	25	mL	Glass Bottle
Silicone oil	63148-62-9	C8H24O2Si3	Liquid	H316,H320,H401	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	30	30	mL	Glass Bottle
Sodium metabisulfite	7681-57-4	Na2O5S2	Solid	H302,H313,H318,H402	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	500	500	g	Plastic Bottle
alpha-Maltose (Starch)	9005-84-9	C12H22O11	Liquid	H316	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	500	500	g	Glass Bottle
Acetone	67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	1	1	L	Glass Bottle
Isopropanol	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	1	1	L	Glass Bottle
Glycerol solution	56-81-5, 7732-18-5		Liquid	H316,H320	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	5	5	mL	Glass Bottle
Acetone	67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	1	1	L	Glass Bottle
15-Crown-5	33100-27-5	C10H20O5	Liquid	H302,H313,H315,H319	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	25	25	mL	Glass Bottle
Hydrogen peroxide, > 27.5 to ≤ 35 % in water	7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Applied Photonics Research Lab	Castle Building 1200		200	2.4	2.4	L	Plastic Bottle
Isopropanol	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	1	1	L	Glass Bottle
Isopropanol	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	1	1	L	Glass Bottle
Methanol	67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	1	1	L	Glass Bottle
Poly(methyl methacrylate)	9011-14-7	[CH2C(CH3)(CO2CH3)]n	Liquid		Applied Photonics Research Lab	Science and Engineering Building	First Floor	125	10	10	mL	Glass Bottle

Sharping, J
BSP 1st Floor

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
1-Butanol		71-36-3	C4H10O	Liquid	H226,H302,H313,H315,H318,H333,H335,H336	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	200	200	g	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Helium (gas)		7440-59-7	He	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	218	218	ft3	Cylinder
Potassium ferricyanide(III)		13746-66-2	C6FeK3N6	Solid	H303	Andy LiWang	Castle Building 1201	First Floor	1201	100	100	g	Plastic Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Coomassie Plus				Liquid		Andy LiWang	Castle Building 1201	First Floor	1201	950	950	mL	Plastic Bottle
D-Sorbitol		50-70-4	C6H14O6	Solid		Andy LiWang	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle
Guanidine hydrochloride		50-01-1	CH6ClN3	Solid	H302,H315,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	5	5	kg	Plastic/Non-Metallic Drum
Guanidine hydrochloride		50-01-1	CH6ClN3	Solid	H302,H315,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	5	5	kg	Plastic/Non-Metallic Drum
Sodium fluoride		7681-49-4	FNa	Solid	H300,H300,H301,H315,H319,H402	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
1-Butanol		71-36-3	C4H10O	Liquid	H226,H302,H313,H315,H318,H333,H335,H336	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
1-Butanol		71-36-3	C4H10O	Liquid	H226,H302,H313,H315,H318,H333,H335,H336	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	L	Glass Bottle
1-Butanol		71-36-3	C4H10O	Liquid	H226,H302,H313,H315,H318,H333,H335,H336	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	L	Glass Bottle
Acrylamide/Bis-acrylamide, 30% solution, 37.5:1		7732-18-5, 79-06-1, 110-26-9		Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H40	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Ammonium Hydroxide		1336-21-6	NH4OH	Liquid	H318,H314,H302,H400	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Hexane		110-54-3	C6H14	Liquid	H225,H304,H315,H320,H336,H361,H373,H401,H41	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Sodium fluoride		7681-49-4	FNa	Solid	H300,H300,H301,H315,H319,H402	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Acrylamide/Bis-acrylamide, 30% solution, 37.5:1		7732-18-5, 79-06-1, 110-26-9		Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H40	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Plastic Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Andy LiWang	Castle Building 1201	First Floor	1201	121	121	fluid oz	Plastic Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Andy LiWang	Castle Building 1201	First Floor	1201	121	121	fluid oz	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
1-Butanol		71-36-3	C4H10O	Liquid	H226,H302,H313,H315,H318,H333,H335,H336	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Helium (gas)		7440-59-7	He	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	218	218	ft3	Cylinder
Nitrogen (Liquid)		7727-37-9	N2	Liquid	H280,H281	Andy LiWang	Castle Building 1201	First Floor	1201	121	121	L	Cryogenic Dewar
Potassium hexacyanoferrate(II) trihydrate		14459-95-1	C6FeK4N6 · 3H2O	Solid	H303,H320,H402,H412	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
D-Mannitol		69-65-8	C6H14O6	Solid		Andy LiWang	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle
Ethidium bromide		1239-45-8	C21H20BrN3	Solid	H302,H330,H341	Andy LiWang	Castle Building 1201	First Floor	1201	110	110	mg	Plastic Bottle
Helium (Liquid)		7440-59-7	He	Liquid	H280	Andy LiWang	Castle Building 1201	First Floor	1201	100	100	L	Cryogenic Dewar
Phosphoric acid, >=85% aqueous solution		7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H41	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ethidium bromide		1239-45-8	C21H20BrN3	Liquid	H302,H330,H341	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Plastic Bottle
Ethidium bromide, 10 mg/ml in water		1239-45-8	C21H20BrN3	Liquid	H331,H341	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	mL	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	228	228	ft3	Cylinder
Sodium azide		26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Andy LiWang	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle

Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Guanidine hydrochloride		50-01-1	CH6ClN3	Solid	H302,H315,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	5	5	kg	Glass Bottle
Potassium cyanide		151-50-8	CKN	Solid	H290,H300,H310,H330,H370,H372,H400,H410	Andy LiWang	Castle Building 1201	First Floor	1201	453	453	g	Glass Bottle
Trimethylamine N-oxide		1184-78-7	C3H9NO	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	g	Glass Bottle
Zinc sulfate heptahydrate		7446-20-0	H14O11SZn	Solid	H302,H318,H400,H410	Andy LiWang	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Acrylamide/Bis-acrylamide, 30% solution, 37.5:1		7732-18-5, 79-06-1, 110-26-9		Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H40	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Andy LiWang	Castle Building 1201	First Floor	1201	121	121	fluid oz	Plastic Bottle
Ethan(ol-d)		925-93-9	C2H6O	Liquid	H225,H320	Andy LiWang	Castle Building 1201	First Floor	1201	25	25	mL	Glass Bottle
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Lactic acid		50-21-5	C3H6O3	Solid	H315,H318	Andy LiWang	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H41	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
Zinc sulfate heptahydrate		7446-20-0	H14O11SZn	Solid	H302,H318,H400,H410	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle
1-Butanol		71-36-3	C4H10O	Liquid	H226,H302,H313,H315,H318,H333,H335,H336	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Acrylamide, 40% aqueous solution		7732-18-5, 79-06-1	C3H5NO	Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H40	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Plastic Bottle
Acrylamide, 40% aqueous solution		7732-18-5, 79-06-1	C3H5NO	Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H40	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Plastic Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	200	200	g	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Andy LiWang	Castle Building 1201	First Floor	1201	121	121	fluid oz	Plastic Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	50	50	lb	Cylinder
Hydrochloric acid, 6 N solution		7647-01-0	HCl	Liquid	H290,H314,H315,H318,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Dichloromethane		75-09-2	CH2Cl2	Liquid	H302,H303,H313,H315,H319,H320,H335,H336,H351,H37	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Coomassie Plus				Liquid		Andy LiWang	Castle Building 1201	First Floor	1201	950	950	mL	Plastic Bottle
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Sodium fluoride		7681-49-4	FNa	Solid	H300,H300,H301,H315,H319,H402	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Acrylamide/Bis-acrylamide, 30% solution, 37.5:1		7732-18-5, 79-06-1, 110-26-9		Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H40	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Andy LiWang	Castle Building 1201	First Floor	1201	121	121	fluid oz	Plastic Bottle
Guanidine hydrochloride		50-01-1	CH6ClN3	Solid	H302,H315,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	5	5	kg	Glass Bottle
L-Proline		147-85-3	C5H9NO2	Solid		Andy LiWang	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle
Nitrogen (Liquid)		7727-37-9	N2	Liquid	H280,H281	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	L	Cryogenic Dewar
Potassium hydroxide		1310-58-3	HKO	Solid	H290,H302,H314,H318,H402	Andy LiWang	Castle Building 1201	First Floor	1201	3	3	kg	Plastic Bottle
Sodium azide		26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Andy LiWang	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	75	75	g	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Dichloromethane		75-09-2	CH2Cl2	Liquid	H302,H303,H313,H315,H319,H320,H335,H336,H351,H37	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ammonium-15N chloride		39466-62-1	ClH4N	Solid	H302,H401,H319,H411	Andy LiWang	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	50	50	lb	Cylinder
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Andy LiWang	Castle Building 1201	First Floor	1201	3	3	kg	Glass Bottle
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	L	Glass Bottle
Potassium ferricyanide(III)		13746-66-2	C6FeK3N6	Solid	H303	Andy LiWang	Castle Building 1201	First Floor	1201	250	250	g	Plastic Bottle
Sodium chloride		7647-14-5	ClNa	Solid		Andy LiWang	Castle Building 1201	First Floor	1201	10	10	kg	Plastic/Non-Metallic Drum
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Andy LiWang	Castle Building 1201	First Floor	1201	3	3	kg	Plastic Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
1-Butanol		71-36-3	C4H10O	Liquid	H226,H302,H313,H315,H318,H333,H335,H336	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Glass Bottle
Acrylamide/Bis-acrylamide, 30% solution, 37.5:1		7732-18-5, 79-06-1, 110-26-9		Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H40	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Plastic Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Potassium hydroxide		1310-58-3	HKO	Solid	H290,H302,H314,H318,H402	Andy LiWang	Castle Building 1201	First Floor	1201	5	5	lb	Glass Bottle
6-(Iodoacetamido)fluorescein		73264-12-7	C22H14INO6	Solid	H315,H319,H335	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	mg	Other

Nitrogen (gas)		7727-37-9	N2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	228	228	ft3	Cylinder
Phosphoric acid, >=85% aqueous solution		7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Nitric acid, red fuming		7697-37-2	HNO3	Liquid	H272,H290,H311,H314,H318,H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	228	228	ft3	Cylinder
Phosphoric acid, >=85% aqueous solution		7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Andy LiWang	Castle Building 1201	First Floor	1201	3	3	kg	Plastic Bottle
Phosphoric acid, >=85% aqueous solution		7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Phosphoric acid, >=85% aqueous solution		7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	228	228	ft3	Cylinder
Phosphoric acid, >=85% aqueous solution		7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	304	304	ft3	Cylinder
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Hydrochloric acid, concentrated (~37% solution in water)	Hydrochloric acid, for analysis, fuming, 37% solution in water, ACROS Organics	7647-01-0	HCl	Liquid	H318,H290,H335,H314	Andy LiWang	Castle Building 1201	First Floor	1201	1	1	L	Glass Bottle
Bradford Reagent		7664-38-2, 6104-58-1, 67-56-1, 7732-18-5		Liquid	H318,H370,H314,H290,H303	Andy LiWang	Castle Building 1201	First Floor	1201	300	300	mL	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
2-Propanol-d8		22739-76-0	C3H8O	Liquid	H225,H316,H319,H336	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Hydrochloric acid, concentrated (~37% solution in water)	Hydrochloric acid, for analysis, fuming, 37% solution in water, ACROS Organics	7647-01-0	HCl	Liquid	H318,H290,H335,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Nitrogen (Liquid)		7727-37-9	N2	Liquid	H280,H281	Andy LiWang	Castle Building 1201	First Floor	1201	160	160	L	Cryogenic Dewar
Nitrogen (Liquid)		7727-37-9	N2	Liquid	H280,H281	Andy LiWang	Castle Building 1201	First Floor	1201	160	160	L	Cryogenic Dewar
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	mL	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	228	228	ft3	Cylinder
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	228	228	ft3	Cylinder
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Andy LiWang	Castle Building 1201	First Floor	1201	228	228	ft3	Cylinder
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle
Trichloroacetic acid	Trichloroacetic acid	76-03-9	C2HCl3O2	Solid	H303,H314,H314,H314,H318,H400,H410	Andy LiWang	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H33	Andy LiWang	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle
Hydrochloric acid, concentrated (~37% solution in water)	Hydrochloric acid, 37%	7647-01-0	HCl	Liquid	H318,H290,H335,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Hydrochloric acid, concentrated (~37% solution in water)	Hydrochloric acid, 37%	7647-01-0	HCl	Liquid	H318,H290,H335,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle
Hydrochloric acid, concentrated (~37% solution in water)	Hydrochloric acid, 37%	7647-01-0	HCl	Liquid	H318,H290,H335,H314	Andy LiWang	Castle Building 1201	First Floor	1201	2.5	2.5	L	Glass Bottle

Chemical Name	Substance	CAS	Molecular Formula	Physical St	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type	Concentration	Concentration Units	Solvent
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
Ammonium Molybdate, Tetrahydrate		12027-67-7	(NH4)6Mo7O24•4H2O	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Boric acid		10043-35-3	BH3O3	Solid	H303,H360,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	kg	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle			
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	kg	Glass Bottle			
Cholic acid		81-25-4	C24H40O5	Solid	H303,H315,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Deoxycholic acid		83-44-3	C24H40O4	Solid	H302	P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
BIS-TRIS		6976-37-0	C8H19NO5	Solid	H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Plastic Bottle			
Bromophenol Blue		115-39-9	C19H10Br4O5S	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
CPRG Chlorophenol red-beta-D-galactopyranoside		99792-79-7	C25H22Cl2O10S	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	250	250	mg	Glass Bottle			
Ammonium acetate		631-61-8	C2H7NO2	Solid	H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Copper(II) chloride dihydrate		10125-13-0	Cl2CuH4O2	Solid	H290,H302,H312,H315,H318,H400,H411	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Ammonium bicarbonate		1066-33-7	CH5NO3	Solid	H302,H402	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Blue Dextran		87915-38-6	0661 Formula: C	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mg	Glass Bottle			
Chloroform-d		865-49-6	CHCl3	Liquid	H302,H315,H319,H331,H351,H361,H372,H373,H332,H336	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mL	Glass Bottle			
Citric acid		77-92-9	C6H8O7	Solid	H313,H315,H316,H318,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	lb	Glass Bottle			
Sorbic acid		110-44-1	C6H8O2	Solid	H303,H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle			
Ammonium chloride		12125-02-9	ClH4N	Solid	H302,H319,H401,H411	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Ammonium persulfate		7727-54-0	H8N2O8S2	Solid	H272,H301,H302,H312,H313,H315,H317,H319,H334,H335,H402	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Ammonium sulfate		7783-20-2	H8N2O4S	Solid	H303,H316,H320,H402,H412	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Brilliant Blue R		6104-59-2	C45H44N3NaO7S2	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Dowex Marathon MR-3 hydrogen and hydroxide form		103591-11-3		Solid	H335,H315,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Bio-Rad Protein Assay		, ,		Liquid		P. LiWang lab	Castle Building 1201	First Floor	1201	20	20	mL	Glass Bottle			
Blue Dextran		87915-38-6	0661 Formula: C	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mg	Glass Bottle			
Boric acid		10043-35-3	BH3O3	Solid	H303,H360,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	kg	Glass Bottle			
Chloramphenicol		56-75-7	C11H12Cl2N2O5	Solid	H303,H350,H350,H361	P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Creatine		57-00-1	C4H9N3O2	Solid	H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Plastic Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
Ammonium acetate		631-61-8	C2H7NO2	Solid	H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	kg	Glass Bottle			
Bromophenol Blue		115-39-9	C19H10Br4O5S	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
Chloramphenicol		56-75-7	C11H12Cl2N2O5	Solid	H303,H350,H350,H361	P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Cobalt(II) chloride hexahydrate		7791-13-1	Cl2Co · 6H2O	Solid	H302,H313,H314,H317,H318,H334,H341,H350,H360,H	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Deoxycholic acid		83-44-3	C24H40O4	Solid	H302	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	mL	Glass Bottle			
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Ammonium persulfate		7727-54-0	H8N2O8S2	Solid	H272,H301,H302,H312,H313,H315,H317,H319,H334,H	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
BIS-TRIS		6976-37-0	C8H19NO5	Solid	H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Brilliant Blue G		6104-58-1	C47H48N3NaO7S2	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
CPRG Chlorophenol red-beta-D-galactopyranoside		99792-79-7	C25H22Cl2O10S	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	250	250	mg	Glass Bottle			
Congo Red		573-58-0	C32H22N6Na2O6S2	Solid	H350,H361	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
Brilliant Blue R		6104-59-2	C45H44N3NaO7S2	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
DEAE-Cellulose		9013-34-7	C12H22O11	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Acetylsalicylic acid		50-78-2	C9H8O4	Solid	H302,H315,H319,H335,H402	P. LiWang lab	Castle Building 1201	First Floor	1201	250	250	g	Glass Bottle			
Ammonium persulfate		7727-54-0	H8N2O8S2	Solid	H272,H301,H302,H312,H313,H315,H317,H319,H334,H	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
BIS-TRIS		6976-37-0	C8H19NO5	Solid	H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Plastic Bottle			
Cacodylic acid		75-60-5	C2H7AsO2	Solid	H301,H315,H319,H331,H335,H351	P. LiWang lab	Castle Building 1201	First Floor	1201	50	50	g	Plastic Bottle			
Brilliant Blue R		6104-59-2	C45H44N3NaO7S2	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			

Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 +	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle			
Ammonium chloride		12125-02-9	ClH4N	Solid	H302,H319,H401,H411	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Ammonium Molybdate, Tetrahydrate		12027-67-7	(NH4)6Mo7O24•4H2O	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Chloroform-d		865-49-6	CHCl3	Liquid	H302,H315,H319,H331,H351,H361,H372,H373,H332,H	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mL	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	kg	Glass Bottle			
Cobalt(II) chloride hexahydrate		7791-13-1	Cl2Co · 6H2O	Solid	H302,H313,H314,H317,H318,H334,H341,H350,H360,H	P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	mg	Glass Bottle			
Adenosine 5'-(tetrahydrogen triphosphate), disodium salt, trihydrate		51963-61-2	C10H20N5Na2O16P3	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	10	10	g	Glass Bottle			
Cycloheximide		66-81-9	C15H23NO4	Solid	H300,H300,H341,H360,H360,H401,H411,H315	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	g	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 +	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 +	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
BIS-TRIS		6976-37-0	C8H19NO5	Solid	H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Cyanogen bromide		506-68-3	CBrN	Solid	H300,H310,H314,H318,H330,H400,H410	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
CPRG Chlorophenol red-beta-D-galactopyranoside		99792-79-7	C25H22Cl2O10S	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	250	250	mg	Glass Bottle			
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Plastic Bottle			
Ammonium bicarbonate		1066-33-7	CH5NO3	Solid	H302,H402	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 +	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
HEPES		7365-45-9	C8H18N2O4S	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Tetrasodium EDTA		64-02-8	C10H12N2Na4O8	Solid	H302,H318	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
EGTA		67-42-5	C14H24N2O10	Solid	H303	P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Formaldehyde, 37 wt.% solution in water, methanol-free		50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H	P. LiWang lab	Castle Building 1201	First Floor	1201	450	450	mL	Plastic Bottle			
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mL	Plastic Bottle			
Hygromycin B, aqueous solution		31282-04-9	C20H37N3O13	Liquid	H332,H334,H301,H312,H318	P. LiWang lab	Castle Building 1201	First Floor	1201	2	2	mL	Plastic Bottle			
IPTG		367-93-1	C9H18O5S	Solid	H319,H351,H315,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Plastic Bottle			
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Nickel(II) sulfate hexahydrate		10101-97-0	H12NiO10S	Solid	H302,H315,H317,H332,H334,H341,H350,H360,H372,H	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
EDTA disodium salt dihydrate		6381-92-6	C10H14N2Na2O8 · 2H2O	Solid	H303,H332,H373	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
HEPES		7365-45-9	C8H18N2O4S	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
G 418 sulfate solution (50 mg/ml in Water)		108321-42-2	C20H40N4O10·2H2SO4	Liquid	H316,H317,H334,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	15	15	mL	Plastic Bottle			
Magnesium chloride hexahydrate		7791-18-6	Cl2Mg · 6H2O	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Nickel(II) chloride		7718-54-9	Cl2Ni	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Iron(II) sulfate heptahydrate		7782-63-0	FeH14O11S	Solid	H302,H315,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Ammonium formate		540-69-2	CH5NO2	Solid	H303,H315,H319,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	kg	Glass Bottle			
Hygromycin B, aqueous solution		31282-04-9	C20H37N3O13	Liquid	H332,H334,H301,H312,H318	P. LiWang lab	Castle Building 1201	First Floor	1201	2	2	mL	Plastic Bottle			
Hygromycin B, aqueous solution		31282-04-9	C20H37N3O13	Liquid	H332,H334,H301,H312,H318	P. LiWang lab	Castle Building 1201	First Floor	1201	2	2	mL	Plastic Bottle			
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
IPTG		367-93-1	C9H18O5S	Solid	H319,H351,H315,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Plastic Bottle			
Kanamycin sulfate		25389-94-0	C18H36N4O11 · H2O4S	Solid	H303,H312,H332,H360,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
L-(+)-Arabinose		5328-37-0	C5H10O5	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Formamide		75-12-7	CH3NO	Liquid	H313,H318,H331,H333,H340,H351,H360,H373	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mL	Glass Bottle			
Kanamycin sulfate		25389-94-0	C18H36N4O11 · H2O4S	Solid	H303,H312,H332,H360,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
Glass beads				Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Plastic Bottle			
Glutathione, oxidized		64-17-5, 7732-18-5, 27025-41-8		Solid	H316	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
HEPES,FREE ACID 100GM				Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			

Lithium acetate dihydrate		6108-17-4	C2H7LiO4	Solid	H301,H315,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mL	Plastic Bottle			
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Lysozyme		9001-63-2		Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	g	Glass Bottle			
Iodine		7553-56-2	I2	Solid	H312,H315,H319,H332,H335,H372,H400	P. LiWang lab	Castle Building 1201	First Floor	1201	125	125	g	Glass Bottle			
Manganese(II) chloride		7773-01-5	Cl2Mn	Solid	H301,H302,H318,H373,H401,H411	P. LiWang lab	Castle Building 1201	First Floor	1201	125	125	g	Glass Bottle			
Ethanolamine		141-43-5	C2H7NO	Liquid	H227,H302,H312,H314,H318,H332,H335,H401,H412	P. LiWang lab	Castle Building 1201	First Floor	1201	250	250	mL	Glass Bottle			
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Glutathione, oxidized		64-17-5, 7732-18-5, 27025-41-8		Solid	H316	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Lithium chloride		7447-41-8	ClLi	Solid	H302,H315,H319,H335,H402	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Penicillin-streptomycin		3810-74-0, 69-57-8		Solid	H302,H317,H332,H334,H361	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
EDTA tetrasodium salt dihydrate		10378-23-1	C10H16N2Na4O10	Solid	H302,H318	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Paraformaldehyde		30525-89-4	CH2O	Solid	H228,H302,H315,H317,H318,H332,H335,H351,H402	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Plastic Bottle			
Glutathione, oxidized		64-17-5, 7732-18-5, 27025-41-8		Solid	H316	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	g	Glass Bottle			
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mL	Plastic Bottle			
Hygromycin B, aqueous solution		31282-04-9	C20H37N3O13	Liquid	H332,H334,H301,H312,H318	P. LiWang lab	Castle Building 1201	First Floor	1201	2	2	mL	Plastic Bottle			
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
Manganese(II) chloride tetrahydrate		13446-34-9	Cl2Mn · 4H2O	Solid	H301,H302,H402,H412	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
NiNTA Agarose				Liquid		P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	mL	Plastic Bottle			
HEPES		7365-45-9	C8H18N2O4S	Solid		P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Glass Bottle			
IPTG		367-93-1	C9H18O5S	Solid	H319,H351,H315,H335	P. LiWang lab	Castle Building 1201	First Floor	1201	100	100	g	Plastic Bottle			
Kanamycin sulfate		25389-94-0	C18H36N4O11 · H2O4S	Solid	H303,H312,H332,H360,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
Cetrimonium bromide		57-09-0	C19H42BrN	Solid	H302,H315,H318,H335,H373,H400	P. LiWang lab	Castle Building 1201	First Floor	1201	25	25	g	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
Kanamycin sulfate		25389-94-0	C18H36N4O11 · H2O4S	Solid	H303,H312,H332,H360,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	g	Glass Bottle			
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle			
EDTA tetrasodium salt dihydrate		10378-23-1	C10H16N2Na4O10	Solid	H302,H318	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
EDTA tetrasodium salt dihydrate		10378-23-1	C10H16N2Na4O10	Solid	H302,H318	P. LiWang lab	Castle Building 1201	First Floor	1201	500	500	g	Glass Bottle			
G 418 sulfate solution (50 mg/ml in Water)		108321-42-2	C20H40N4O10·2H2SO4	Liquid	H316,H317,H334,H360	P. LiWang lab	Castle Building 1201	First Floor	1201	15	15	mL	Plastic Bottle			
Polyethylene glycol (solid)		25322-68-3	C2nH4n+2On+1	Solid	H316,H320	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	kg	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	P. LiWang lab	Castle Building 1201	First Floor	1201	50	50	lb	Cylinder			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 +	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle	80	% vol.	Water
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 +	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle	80	% vol.	Water
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 +	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle	80	% vol.	Water
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 +	P. LiWang lab	Castle Building 1201	First Floor	1201	1	1	gal	Plastic Bottle	80	% vol.	Water
Contrad 70				Liquid	H320,H302,H315	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	L	Plastic Bottle			
Contrad 70				Liquid	H320,H302,H315	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	L	Plastic Bottle			
Contrad 70				Liquid	H320,H302,H315	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	L	Plastic Bottle			
Contrad 70				Liquid	H320,H302,H315	P. LiWang lab	Castle Building 1201	First Floor	1201	5	5	L	Plastic Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	P. LiWang lab	Castle Building 1201	First Floor	1201	4	4	L	Glass Bottle			

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
Sample buffer, Laemmli 2x concentrate		1185-53-1, 151-21-3, 115-39-9, 7732-18-5, 56-81-5, 60-24-2		Liquid	H302,H312,H315,H317,H318,H332,H373,H401,H411	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	30	30	mL	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Activated charcoal		7440-44-0	C	Solid	H228	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Glass Bottle
Biotin		58-85-5	C10H16N2O3S	Solid		Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	1	1	g	Glass Bottle
Buffer solution (potassium chloride/hydrochloric acid), pH 1.00		7447-40-7, 7647-01-0, 7732-18-5	ClK	Liquid	H315,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Plastic Bottle
Citric acid monohydrate		5949-29-1	C6H10O8	Solid	H319	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
EDTA disodium salt dihydrate		6381-92-6	C10H14N2Na2O8 · 2H2O	Solid	H303,H332,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
EDTA		60-00-4	C10H16N2O8	Solid	H319	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
IPTG		367-93-1	C9H18O5S	Solid	H319,H351,H315,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Glass Bottle
Rhamnose Disks		3615-41-6	C6H12O5	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	12.5	12.5	g	Plastic Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Tris-Glycine buffer, 10X		77-86-1, 7732-18-5, 56-40-6		Liquid	H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
cOmplete(TM), Mini, EDTA-free Protease Inhibitor Cocktail Protease Inhibitor Cocktail Tablets provided in a glass vial, Tablets provided in a glass vial				Solid	H315,H319	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	30	30	g	Glass Bottle
Copper(II) chloride dihydrate		10125-13-0	Cl2CuH4O2	Solid	H290,H302,H312,H315,H318,H400,H411	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Glass Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
IPTG		367-93-1	C9H18O5S	Solid	H319,H351,H315,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Glass Bottle
L-(+)-Arabinose		5328-37-0	C5H10O5	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	25	25	g	Plastic Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Nickel(II) chloride		7718-54-9	Cl2Ni	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Glass Bottle
Sample buffer, Laemmli 2x concentrate		1185-53-1, 151-21-3, 115-39-9, 7732-18-5, 56-81-5, 60-24-2		Liquid	H302,H312,H315,H317,H318,H332,H373,H401,H411	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	30	30	mL	Plastic Bottle
alpha-Lactose monohydrate		5989-81-1	C12H24O12	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
alpha-D-Glucose		492-62-6	C6H12O6	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Glass Bottle
Magnesium sulfate heptahydrate		10034-99-8	H14MgO11S	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Glass Bottle
N-Bromosuccinimide		128-08-5	C4H4BrNO2	Solid	H302,H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Glass Bottle
1,1,1,2-Tetrafluoroethane		811-97-2	C2H2F4	Gas	H320,H280,H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	0.0114	0.0114	ft3	Cylinder
3-Aminopropyltriethoxysilane		919-30-2	C9H23NO3Si	Liquid	H227,H302,H314,H317,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	mL	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Agarose		9012-36-6		Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Plastic Bottle
Molecular Probes Alexa Fluor Albumin from Bovine Serum (BSA), Alexa Fluor 488 Conjugate				Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Glass Bottle
Chloramphenicol		56-75-7	C11H12Cl2N2O5	Solid	H303,H350,H350,H361	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	25	25	g	Glass Bottle

Iron(III) chloride hexahydrate	Ferric Chloride Hexahydrate, (Crystalline),MP Biomedicals	10025-77-1	Cl3Fe · 6H2O	Solid	H290,H302,H314,H315,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Gentamicin solution		1405-41-0		Liquid	H334,H317	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	mL	Glass Bottle
HEPES		7365-45-9	C8H18N2O4S	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Plastic Bottle
Hydrofluoric acid solution, 48-51 wt % in water		7664-39-3	HF	Liquid	H300,H310,H314,H318,H330	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Plastic Bottle
Native Sample Buffer				Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	30	30	mL	Plastic Bottle
Nickel(II) chloride		7718-54-9	Cl2Ni	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle
Carbon disulfide		75-15-0	CS2	Liquid	H225,H302,H315,H319,H332,H361,H372,H401	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Deuterium chloride solution		7789-20-0, 7698-05-7	DCl	Liquid	H335,H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Glycerol solution puriss. p.a., 86-89% (T)		56-81-5, 7732-18-5	C3H8O3 · xH2O	Liquid	H320,H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
HisTrap FF Crude Prepacked Columns				Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	5	5	mL	Plastic Bottle
Manganese(II) chloride tetrahydrate		13446-34-9	Cl2Mn · 4H2O	Solid	H301,H302,H402,H412	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
1,1,1,2-Tetrafluoroethane		811-97-2	C2H2F4	Gas	H320,H280,H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	0.0114	0.0114	ft3	Cylinder
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Ampicillin sodium salt		69-52-3	C16H18N3NaO4S	Solid	H317,H317,H317,H334,H334,H334	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	5	5	g	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
1-Propanol		71-23-8	C3H8O	Liquid	H225,H316,H318,H333,H336	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Activated charcoal		7440-44-0	C	Solid	H228	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Glass Bottle
Ampicillin sodium salt		69-52-3	C16H18N3NaO4S	Solid	H317,H317,H317,H334,H334,H334	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	5	5	g	Glass Bottle
Ethylene glycol		107-21-1	C2H6O2	Liquid	H302,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Isopropyl salicylate AldrichCPR		607-85-2	C10H12O3	Solid	H401,H411,H303	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Glass Bottle
L-alpha-Lecithin		8002-43-5	C42H80NO8P	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	200	200	µL	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Boric acid		10043-35-3	BH3O3	Solid	H303,H360,H360	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
MOPS		1132-61-2	C7H15NO4S	Solid	H303,H315,H319,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Plastic Bottle
1,1,1,2-Tetrafluoroethane		811-97-2	C2H2F4	Gas	H320,H280,H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	0.0114	0.0114	ft3	Cylinder
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
Ammonium sulfate		7783-20-2	H8N2O4S	Solid	H303,H316,H320,H402,H412	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Bio-safe Coomassie G-250		7664-38-2, 67-56-1		Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Plastic Bottle
Cobalt(II) chloride hexahydrate		7791-13-1	Cl2Co · 6H2O	Solid	H302,H313,H314,H317,H318,H334,H341,H350,H360,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Glass Bottle
Lithium chloride		7447-41-8	ClLi	Solid	H302,H315,H319,H335,H402	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Nickel(II) chloride		7718-54-9	Cl2Ni	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Glass Bottle
1,1,1,2-Tetrafluoroethane		811-97-2	C2H2F4	Gas	H320,H280,H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	0.0114	0.0114	ft3	Cylinder

3-(Trimethylsilyl)-1-propanesulfonic acid sodium salt		2039-96-5	C6H15NaO3SSi	Solid	H315,H319,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	g	Glass Bottle
Ampicillin		69-53-4	C16H19N3O4S	Solid	H315,H317,H317,H317,H319,H334,H334,H334,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	25	25	g	Glass Bottle
Guanidine hydrochloride		50-01-1	CH6ClN3	Solid	H302,H315,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	kg	Plastic Bottle
Guanidine thiocyanate		593-84-0	CH5N3 · CHNS	Solid	H302,H312,H332,H402,H412	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Glass Bottle
Methylene Blue Milk Smear Stain, Modified Newman-Lampert Formulation, for Microscopic Bacterial Examination of Milk, Ricca Chemical		64-17-5, 64-19-7, 7732-18-5, 7220-79-3		Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Plastic Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Betaine		107-43-7	C5H11NO2	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Glass Bottle
Bromophenol Blue		115-39-9	C19H10Br4O5S	Solid		Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	25	25	g	Glass Bottle
Dichloromethane, stabilized		75-09-2	CH2Cl2	Liquid	H303,H313,H315,H319,H335,H336,H351,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	5	5	L	Plastic Bottle
DNASE I RECOMBINANT, RNASE-FREE SOLUTION				Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Plastic Bottle
N-Bromosuccinimide		128-08-5	C4H4BrNO2	Solid	H302,H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Glass Bottle
1,1,1,2-Tetrafluoroethane		811-97-2	C2H2F4	Gas	H320,H280,H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	0.0114	0.0114	ft3	Cylinder
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
Cysteamine		60-23-1	C2H7NS	Solid	H302,H315,H319,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Plastic Bottle
Ethanol, denatured with methanol and isopropanol		64-17-5	C2H6O	Liquid	H225,H333,H371	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Glycerol solution puriss. p.a., 86-89% (T)		56-81-5, 7732-18-5	C3H8O3 · xH2O	Liquid	H320,H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
Kanamycin sulfate		25389-94-0	C18H36N4O11 · H2O4S	Solid	H303,H312,H332,H360,H360	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	5	5	g	Glass Bottle
Difco Dehydrated Culture Media: Luria Broth Base, Miller				Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2	2	kg	Plastic Bottle
Magnesium chloride hexahydrate		7791-18-6	Cl2Mg · 6H2O	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Bio-safe Coomassie G-250		7664-38-2, 67-56-1		Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Plastic Bottle
Brilliant Blue G		6104-58-1	C47H48N3NaO7S2	Solid		Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	25	25	g	Glass Bottle
Calcium chloride		10043-52-4	CaCl2	Solid	H303,H315,H319	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
L-Tryptophanamide hydrochloride		5022-65-1	C11H14ClN3O	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	g	Glass Bottle
1,1,1,2-Tetrafluoroethane		811-97-2	C2H2F4	Gas	H320,H280,H316	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	0.0114	0.0114	ft3	Cylinder
2-Mercaptoethanol		60-24-2	C2H6OS	Liquid	H227,H301,H310,H310,H315,H317,H317,H317,H318,H331,H335,H373,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	mL	Glass Bottle
Ammonium chloride		12125-02-9	ClH4N	Solid	H302,H319,H401,H411	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Ammonium sulfate		7783-20-2	H8N2O4S	Solid	H303,H316,H320,H402,H412	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	500	500	g	Plastic Bottle
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Glass Bottle
Chloroform, stabilized		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H336,H351,H361,H372,H373,H402,H335,H360	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Gentamicin solution		1405-41-0		Liquid	H334,H317	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	mL	Glass Bottle
Glycine		56-40-6	C2H5NO2	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	kg	Plastic Bottle
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
LB Agar, Miller		9000-71-9, 8013-01-2, 7647-14-5, 9002-18-0		Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2	2	kg	Plastic Bottle

Lysozyme		7647-14-5, 7732-18-5, 26628-22-8, , 9048-46-8		Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	5	5	g	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Deuterium oxide		7789-20-0	D2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	25	25	mL	Glass Bottle
Guanidine hydrochloride		50-01-1	CH6ClN3	Solid	H302,H315,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	kg	Plastic Bottle
Isobutane		75-28-5	C4H10	Gas	H220,H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	0.000502	0.000502	ft3	Cylinder
Lithium chloride		7447-41-8	ClLi	Solid	H302,H315,H319,H335,H402	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Molybdovanadate Reagent, TRAACS, Ricca Chemical		7664-93-9, 12054-85-2, 7803-55-6		Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	mL	Plastic Bottle
Phosphoric acid, >=85% aqueous solution		7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	304	304	ft3	Cylinder
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	304	304	ft3	Cylinder
Phosphoric acid, >=85% aqueous solution		7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Nitric acid, red fuming		7697-37-2	HNO3	Liquid	H272,H290,H311,H314,H318,H331,H333	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle
Phenylmethylsulfonyl fluoride		329-98-6	C7H7FO2S	Solid	H301,H314,H314,H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Glass Bottle
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	228	228	ft3	Cylinder
Potassium iodide		7681-11-0	IK	Solid	H302,H315,H319,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Plastic Bottle
Sodium chloride		7647-14-5	ClNa	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	3	3	kg	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Potassium chloride		7447-40-7	ClK	Solid	H303	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Potassium dichromate		7778-50-9	Cr2K2O7	Solid	H272,H301,H312,H314,H317,H318,H330,H334,H340,H350,H360,H372,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Plastic Bottle
Streptomycin sulfate		3810-74-0	C21H39N7O12 · 1.5H2O4S	Solid	H302,H361	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	50	50	g	Glass Bottle
Sulfuric acid solution p.a., 18.0-24.0%		7664-93-9	H2O4S	Liquid	H314,H330,H335,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle
Tris base	Tris(hydroxymethyl) An	77-86-1	C4H11NO3	Solid	H315,H319,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	kg	Plastic Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Zinc sulfate heptahydrate		7446-20-0	H14O11SZn	Solid	H302,H318,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Potassium iodate		7758-05-6	IKO3	Solid	H272,H315,H319,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Plastic Bottle
Sodium citrate dihydrate		6132-04-3	C6H9Na3O9	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Pierce Protease Inhibitor Tablets		30827-99-7		Solid	H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	g	Box
Triton X-100		9002-93-1	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Plastic Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	kg	Plastic Bottle
Tryptone		91079-40-2		Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Potassium phosphate monobasic		7778-77-0	H2KO4P	Solid	H313,H315,H319	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Sodium molybdate dihydrate		10102-40-6	H4MoNa2O6	Solid	H320	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	250	250	g	Glass Bottle
(S)-Trolox methyl ether for chiral derivatization, >=98.0%		135806-59-6	C15H20O4	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	50	50	mg	Plastic Bottle
Potassium hydroxide		1310-58-3	HKO	Solid	H290,H302,H314,H318,H402	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	kg	Plastic Bottle
Silica gel		112926-00-8	O2Si	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Sodium azide		26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	25	25	g	Glass Bottle
tert-Butanol		75-65-0	C4H10O	Liquid	H225,H302,H303,H313,H315,H316,H319,H332,H333,H335,H336	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	L	Glass Bottle
(S)-Trolox methyl ether for chiral derivatization, >=98.0%		135806-59-6	C15H20O4	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	50	50	mg	Plastic Bottle

Urea		57-13-6	CH4N2O	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	kg	Plastic Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Pierce Protease Inhibitor Tablets		30827-99-7		Solid	H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	g	Box
Sodium deuteroxide		14014-06-3	DNaO	Liquid	H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Glass Bottle
Sodium selenite		10102-18-8	Na2O3Se	Solid	H300,H315,H317,H319,H330,H401,H411	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Sodium acetate trihydrate		6131-90-4	C2H9NaO5	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Sulfuric acid solution p.a., 18.0-24.0%		7664-93-9	H2O4S	Liquid	H314,H330,H335,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Sodium dodecyl sulfate, 20% solution in water		151-21-3	C12H25NaO4S	Liquid	H315,H318,H335,H402	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	200	200	mL	Plastic Bottle
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Glass Bottle
Tris(2-carboxyethyl)phosphine hydrochloride		51805-45-9	C9H16ClO6P	Solid	H303,H313,H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Urea		57-13-6	CH4N2O	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	kg	Plastic Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	mL	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Sodium perchlorate		7601-89-0	ClNaO4	Solid	H271,H302,H319,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Sodium phosphate monobasic		7558-80-7	H2NaO4P	Solid	H315,H319,H320,H335	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	mL	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Sodium azide		26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Glass Bottle
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	kg	Glass Bottle
Sodium sulfate		7757-82-6	Na2O4S	Solid	H402	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Glass Bottle
Sodium citrate dihydrate		6132-04-3	C6H9Na3O9	Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Sodium deuteroxide		14014-06-3	DNaO	Liquid	H314,H318	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	10	10	g	Glass Bottle
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	kg	Glass Bottle
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	mL	Glass Bottle
Trimethylamine N-oxide dihydrate		62637-93-8	C3H13NO3	Solid	H319,H315	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	g	Glass Bottle
Water, RNase-Free	Water HPLC grade	7732-18-5	H2O	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Yeast extract		8013-01-2		Solid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	g	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle
Hydrochloric acid		7647-01-0	ClH	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	4	4	L	Glass Bottle
Hydrochloric acid		7647-01-0	ClH	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	4	4	L	Glass Bottle
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	100	100	mL	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Hydrochloric acid		7647-01-0	ClH	Liquid		Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	500	500	mL	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, Pure 200	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, Pure 200	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, Pure 200	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Ethanol, 200 proof	Ethyl alcohol, Pure 200	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	1	1	gal	Plastic Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle

Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science and Engineering Building	First Floor	144	304	304	ft3	Cylinder
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	4	4	L	Plastic Bottle
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	4	4	L	Plastic Bottle
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	4	4	L	Plastic Bottle
Oxygen (Gas)		7782-44-7	O2	Gas	H270,H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	249	249	ft3	Cylinder
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Munoz-SE2-340-Bioengineering	Science and Engineering Building	Third Floo	385	4	4	L	Plastic Bottle
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2		024	304	304	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Basement	024	304	304	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Basement	024	304	304	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Basement	024	304	304	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Basement	024	304	304	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science & Engineering 2	First Floor	104	304	304	ft3	Cylinder
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	4	4	L	Glass Bottle
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science and Engineering Building	First Floor	144	304	304	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science and Engineering Building	First Floor	144	304	304	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Pur	7727-37-9	N2	Gas	H280	Munoz-SE2-340-Bioengineering	Science and Engineering Building	First Floor	144	304	304	ft3	Cylinder
Dichloromethane, stabilized		75-09-2	CH2Cl2	Liquid	H303,H313,H315,H319,H335,H336,H351,H373	Munoz-SE2-340-Bioengineering	Science & Engineering 2	Third Floo	340	2.5	2.5	L	Glass Bottle

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Nur	Size	Amount	Units	Container Type	Concentration	Concentration Units	Solvent
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Glass Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mL	Glass Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
Cerium(III) chloride heptahydrate		18618-55-8	CeCl3 · 7H2O	Solid	H314,H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	g	Plastic Bottle			
Chloramphenicol		56-75-7	C11H12Cl2N2O5	Solid	H303,H350,H350,H361	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
Tris buffered saline solution		7732-18-5, 7647-14-5, 77-86-1		Liquid	H316,H319	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	L	Plastic Bottle			
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
Buffer solution pH 10		7732-18-5, 6381-92-6, 584-08-7, 1310-58-3, 12228-88-9		Liquid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Plastic Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
Brilliant Blue R		6104-59-2	C45H44N3NaO7S2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	10	10	g	Glass Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
bio-beads SM-2		9003-70-7		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	L	Glass Bottle			
Bio Gel P-6		25034-58-6		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
Agarose		9012-36-6		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
2-Mercaptoethanol		60-24-2	C2H6OS	Liquid	H227,H301,H310,H310,H315,H317,H317,H317,H318,H331,H335,H373,H400,H410	Zoghbi's Lab	Castle Building 1201	First Floor	1300	250	250	mL	Glass Bottle			
Bovine serum albumin		9048-46-8		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	mg	Plastic Bottle			
Ammonium persulfate		7727-54-0	H8N2O8S2	Solid	H272,H301,H302,H312,H313,H315,H317,H319,H334,H335,H402	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	g	Glass Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
Phosphocreatine disodium salt, Tocris		922-32-7	C4H8N3Na2O5P	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	5	5	g	Plastic Bottle			
Deoxyribonucleic acid sodium salt		93384-16-8		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	5	5	mg	Glass Bottle			
Agar		9002-18-0	C14H24O9	Solid	H373	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
Acrylamide		79-06-1	C3H5NO	Liquid	H301,H312,H315,H317,H317,H317,H319,H332,H340,H340,H350,H350,H361,H372,H402	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Plastic Bottle			
Ampicillin sodium salt		69-52-3	C16H18N3NaO4S	Solid	H317,H317,H317,H334,H334,H334	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	g	Glass Bottle			
beta-Nicotinamide adenine dinucleotide, reduced disodium salt		606-68-8	C21H27N7Na2O14P2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
L-Glutathione, oxidized		27025-41-8	C20H32N6O12S2	Solid	H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	g	Plastic Bottle			
Potassium chloride		7447-40-7	ClK	Solid	H303	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
LB Broth, Lennox		, 8013-01-2, 7647-14-5		Solid	H316	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	kg	Plastic Bottle			
Sodium chloride		7647-14-5	ClNa	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	3	3	kg	Plastic Bottle			
Triton X-100		9002-93-1	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle			
Sodium hydrosulfite		7775-14-6	Na2O4S2	Solid	H251,H302,H401	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Glass Bottle			
Aminolevulinic acid hydrochloride		5451-09-2	C5H10ClNO3	Solid	H319,H315,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mg	Glass Bottle			
TWEEN 20		9005-64-5	(C26H50O10)n	Liquid	H316	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle			
Ethanol, denatured	Ethanol, anhydrous, denatured, HPLC Grade, 90%, packaged under Argon in resealable ChemSeal bottles	64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			
Hematin porcine		15489-90-4	C34H33FeN4O5	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	250	250	mg	Glass Bottle			
Hemin		16009-13-5	C34H32ClFeN4O4	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	g	Glass Bottle			
HEPES		7365-45-9	C8H18N2O4S	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	kg	Plastic Bottle			
LB Broth, Miller		7647-14-5, 73049-73-7, 8013-01-2		Solid	H316,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2	2	kg	Plastic Bottle			
Polyethylenimine, linear (liquid)		9002-98-6	(C2H5N)n	Liquid	H302,H317,H319,H401,H411	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mL	Plastic Bottle			
Sodium deoxycholate		302-95-4	C24H39NaO4	Solid	H302,H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	g	Plastic Bottle			
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H412	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
Sodium phosphate monobasic monohydrate		10049-21-5	H4NaO5P	Solid	H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	kg	Plastic Bottle			
Glycine		56-40-6	C2H5NO2	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	kg	Plastic Bottle			
Erbium(III) chloride hexahydrate		10025-75-9	Cl3Er · 6H2O	Solid	H319,H335,H315	Zoghbi's Lab	Castle Building 1201	First Floor	1300	20	20	g	Plastic Bottle			
Ethidium bromide, 1% aqueous solution		1239-45-8, 7732-18-5	C21H20BrN3	Liquid	H331,H341	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	mL	Plastic Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
IPTG		367-93-1	C9H18O5S	Solid	H319,H351,H315,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			

Zoghbi, Maria
BSP 2nd Floor

Terbium(III) chloride		10042-88-3	TbCl3	Solid	H315,H319	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	g	Other			
Yeast extract		8013-01-2		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	2	2	kg	Plastic/Non-Metallic Drum			
Verapamil hydrochloride		152-11-4	C27H39ClN2O4	Solid	H331,H301,H311	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mg	Glass Bottle			
EDTA disodium salt dihydrate		6381-92-6	C10H14N2Na2O8 · 2H2O	Solid	H303,H332,H373	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Glass Bottle			
EDTA disodium salt dihydrate		6381-92-6	C10H14N2Na2O8 · 2H2O	Solid	H303,H332,H373	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Glass Bottle			
Europium(III) chloride		10025-76-0	Cl3Eu	Solid	H303	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	g	Other			
MES monohydrate		145224-94-8	C6H15NO5S	Solid	H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370 ,H371,H301 + H311 + H331,H336	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			
Potassium chloride		7447-40-7	ClK	Solid	H303	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Potassium phosphate dibasic		7758-11-4	HK2O4P	Solid	H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	kg	Plastic Bottle			
Potassium phosphate dibasic		7758-11-4	HK2O4P	Solid	H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Sodium orthovanadate		13721-39-6	Na3O4V	Solid	H302,H312,H315,H319,H332,H402	Zoghbi's Lab	Castle Building 1201	First Floor	1300	50	50	g	Glass Bottle			
N,N,N',N'-Tetramethylethylenediamine		110-18-9	C6H16N2	Liquid	H225,H301,H302,H314,H314,H314,H318 ,H331,H332	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	mL	Glass Bottle			
Ytterbium(III) chloride hexahydrate		10035-01-5	Cl3Yb · 6H2O	Solid	H335,H315,H319	Zoghbi's Lab	Castle Building 1201	First Floor	1300	10	10	g	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370 ,H371,H301 + H311 + H331,H336	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			
Gadolinium(III) chloride hexahydrate		13450-84-5	Cl3GdH12O6	Solid	H315,H335,H319	Zoghbi's Lab	Castle Building 1201	First Floor	1300	5	5	g	Plastic Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
IPTG		367-93-1	C9H18O5S	Solid	H319,H351,H315,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	10	10	g	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			
Phenylmethylsulfonyl fluoride		329-98-6	C7H7FO2S	Solid	H301,H314,H314,H314,H318	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	g	Glass Bottle			
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	g	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370 ,H371,H301 + H311 + H331,H336	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370 ,H371,H301 + H311 + H331,H336	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
Kanamycin sulfate		25389-94-0	C18H36N4O11 · H2O4S	Solid	H303,H312,H332,H360,H360	Zoghbi's Lab	Castle Building 1201	First Floor	1300	5	5	g	Glass Bottle			
Phenylmethylsulfonyl fluoride		329-98-6	C7H7FO2S	Solid	H301,H314,H314,H314,H318	Zoghbi's Lab	Castle Building 1201	First Floor	1300	5	5	g	Glass Bottle			
Sodium chloride		7647-14-5	ClNa	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	3	3	kg	Plastic Bottle			
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Gentamicin sulfate salt		1405-41-0		Solid	H317,H334	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	g	Glass Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
Lanthanum(III) chloride heptahydrate		10025-84-0	Cl3H14LaO7	Solid	H303,H335,H315,H319	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	g	Plastic Bottle			
Potassium phosphate dibasic		7758-11-4	HK2O4P	Solid	H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	kg	Plastic Bottle			
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	kg	Plastic Bottle			
Tris(2-carboxyethyl)phosphine hydrochloride		51805-45-9	C9H16ClO6P	Solid	H303,H313,H314,H318	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	g	Glass Bottle			
EGTA		67-42-5	C14H24N2O10	Solid	H303	Zoghbi's Lab	Castle Building 1201	First Floor	1300	20	20	g	Other			
Hydrochloric acid		7647-01-0	ClH	Liquid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle			
Magnesium sulfate		7487-88-9	MgO4S	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Potassium phosphate monobasic		7778-77-0	H2KO4P	Solid	H313,H315,H319	Zoghbi's Lab	Castle Building 1201	First Floor	1300	3	3	kg	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370 ,H371,H301 + H311 + H331,H336	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			
L-(+)-Arabinopyranose		87-72-9	C5H10O5	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
LB Agar, Miller		9000-71-9, 8013-01-2, 7647-14-5, 9002-18-0		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Yeast extract		8013-01-2		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	5	5	kg	Plastic/Non-Metallic Drum			
Imidazole		288-32-4	C3H4N2	Solid	H302,H314,H318,H360	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Sodium cholate hydrate		206986-87-0	C24H41NaO6	Solid	H303	Zoghbi's Lab	Castle Building 1201	First Floor	1300	50	50	g	Plastic Bottle			
n-Dodecyl beta-D-maltoside		69227-93-6	C24H46O11	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	2.5	2.5	L	Glass Bottle			
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319 ,H332,H335,H401,H412	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	g	Plastic Bottle			
Ethanolamine		141-43-5	C2H7NO	Liquid	H227,H302,H312,H314,H318,H332,H335 ,H401,H412	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mL	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370 ,H371,H301 + H311 + H331,H336	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			
L-Glutathione, oxidized		27025-41-8	C20H32N6O12S2	Solid	H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mg	Plastic Bottle			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			
Polyethylene glycol (solid)		25322-68-3	C2nH4n+2On+1	Solid	H316,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	250	250	g	Plastic Bottle			
Sodium hydroxide 10N aqueous solution		1310-73-2	HNaO	Liquid	H314,H314,H314	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	L	Glass Bottle			
Tris base		77-86-1	C4H11NO3	Solid	H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	kg	Plastic Bottle			
Tryptone		91079-40-2		Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	2	2	kg	Plastic Bottle			
Hydrochloric acid		7647-01-0	ClH	Liquid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mL	Glass Bottle			
MOPS		1132-61-2	C7H15NO4S	Solid	H303,H315,H319,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Glass Bottle			

Sodium azide		26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Zoghbi's Lab	Castle Building 1201	First Floor	1300	25	25	g	Glass Bottle			
Tris(2-carboxyethyl)phosphine hydrochloride		51805-45-9	C9H16ClO6P	Solid	H303,H313,H314,H318	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	g	Plastic Bottle			
Hydrochloric acid, 25-<37% solution in water		7647-01-0	HCl	Liquid	H290,H314,H318,H332,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mL	Glass Bottle	10	N	Water
Hydrochloric acid, 25-<37% solution in water		7647-01-0	HCl	Liquid	H290,H314,H318,H332,H335	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	mL	Glass Bottle			
D-(+)-Glucose		50-99-7	C6H12O6	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	3	3	kg	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Zoghbi's Lab	Castle Building 1201	First Floor	1300	1	1	L	Glass Bottle			
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle			
1,2-Dichloroethane		107-06-2	C2H4Cl2	Liquid	H225,H302,H313,H315,H319,H331,H335,H350	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Zoghbi's Lab	Castle Building 1201	First Floor	1300	228	228	ft3	Cylinder			
Potassium chloride solution		7447-40-7	ClK	Liquid	H320,H402	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Glass Bottle			
Buffer Solution pH 7.0 (Color-Coded Yellow)		7732-18-5, 7778-77-0, 1310-73-2, 1934-21-0		Liquid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Plastic Bottle			
Buffer Solution, pH 4.00, Color-Coded Red		7732-18-5, 877-24-7, 50-00-0, 67-56-1, 16423-68-0		Liquid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	mL	Plastic Bottle			
Polyethylene glycol (solid)		25322-68-3	C2nH4n+2On+1	Solid	H316,H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	500	500	g	Plastic Bottle			
Ammonium molybdate		13106-76-8	H8MoN2O4	Solid	H302,H315,H319,H335,H412	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
Formvar resin		63450-15-7, 9003-20-7		Solid	H320	Zoghbi's Lab	Castle Building 1201	First Floor	1300	100	100	g	Plastic Bottle			
Sodium Silicotungstate, MP Biomedicals		12027-47-3	H4Na4O40SiW12	Solid		Zoghbi's Lab	Castle Building 1201	First Floor	1300	10	10	g	Glass Bottle			
Ethanol, Anhydrous (Histological)		64-17-5, 67-56-1, 108-10-1, 141-78-6, 110-54-3, 108-88-3, 8032-32-4		Liquid	H225,H319,H370,H372	Zoghbi's Lab	Castle Building 1201	First Floor	1300	4	4	L	Plastic Bottle			
Nitrogen (gas)		7727-37-9	N2	Gas	H280	Zoghbi's Lab	Castle Building 1201	First Floor	1300	228	228	ft3	Cylinder			

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Sublocation	Size	Amount	Units	Container Type	Concentration	Concentration Units	Solvent
2-Aminoethyl diphenylborinate		524-95-8	C14H16BNO	Solid	H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
3,3',5,5'-Tetramethylbenzidine		54827-17-7	C16H20N2	Liquid	H302,H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle			
4-Methylmorpholine N-oxide solution		7529-22-8, 7732-18-5	C5H11NO2	Liquid	H319,H335,H303,H315	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle	50	% wt.	Water
4-Bromo-calcium Ionophore A23187 powder		76455-48-6	C29H36BrN3O6	Solid	H302,H335,H312,H315,H332,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Trypsin-EDTA Solution				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle	0.5	% wt.	Water
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	4	4	L	Plastic Bottle			
Boric acid		10043-35-3	BH3O3	Solid	H303,H360,H360	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
Brain Heart Infusion Broth		, 7647-14-5, 7782-85-6, 73049-73-7, , 492-62-6		Solid	H316	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
Cadmium chloride		10108-64-2	CdCl2	Solid	H301,H330,H330,H340,H340,H350,H350,H360,H360,H372,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Cobalt(II) chloride hexahydrate		7791-13-1	Cl2Co · 6H2O	Solid	H302,H313,H314,H317,H318,H334,H341,H350,H360,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Plastic Bottle			
Gibco Cell Dissociation Buffer, Enzyme-Free, Hank's Balanced Salt Solution				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle			
D-(+)-Glucose		50-99-7	C6H12O6	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Plastic Bottle			
Diphenylamine		122-39-4	C12H11N	Solid	H301,H311,H331,H373,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Dulbecco's Modified Eagle's Medium (DMEM)		5934-29-2, 72-18-4, 61-90-5, 98-92-0, 73-22-3, 34487-61-1, 7782-61-8, 15595-35-4, 56-40-6, , 72-19-5, 144-55-8, 7647-14-5, 56-85-9, 50-99-7, 52-89-1, 113-24-6, 67-48-1, 7732-18-5, 58-56-0, 657-27-2, 63-91-2, 7558-79-4, 73-32-5, 83-88-5, 63-68-3, 87-89-8, 56-45-1, 59-30-3, 137-		Liquid	H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
DL-Dithiothreitol, 1M aqueous solution		3483-12-3		Liquid	H303,H315,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Glass Bottle			
EDTA tetrasodium salt dihydrate		10378-23-1	C10H16N2Na4O10	Solid	H302,H318	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
DMEM / F12 (1:1)				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Fumaric acid		110-17-8	C4H4O4	Solid	H316,H319,H402	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
Dulbecco's phosphate buffered saline solution (DPBS)		7778-77-0, 7732-18-5, 7647-14-5, 7558-79-4, 7447-40-7		Liquid	H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
cellgro Hank's Balanced Salt Solution, 10X				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Ethylene glycol-bis(beta-aminoethyl ether)-N,N,N',N'-tetraacetic acid tetrasodium		13368-13-3	C14H20N2Na4O10	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	g	Glass Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
GelCode Blue Stain Reagent		7664-38-2, 67-56-1		Liquid	H314,H330,H371	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Lectin from Ulex europaeus (gorse, furze) lyophilized powder				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	mg	Glass Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
L-Glutamine Solution		56-85-9, 7732-18-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle	0.2	M	Water
Glycine		56-40-6	C2H5NO2	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	g	Plastic Bottle			
Lipopolysaccharides, from Escherichia coli 0127:B8 Detoxified		93572-42-0		Solid	H312,H332,H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mg	Plastic Bottle			
cellgro Hank's Balanced Salt Solution, 10X				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Lithium bromide		7550-35-8	BrLi	Solid	H302,H315,H317,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle			
Trypan Blue		72-57-1	C34H24N6Na4O14S4	Solid	H350	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Plastic Bottle			
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box			
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box			
Iron(II) chloride tetrahydrate		13478-10-9	Cl2FeH8O4	Solid	H302,H314,H315,H318	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	g	Plastic Bottle			
Nifedipine		21829-25-4	C17H18N2O6	Solid	H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	mg	Glass Bottle			
Penicillin G sodium salt		69-57-8	C16H17N2NaO4S	Solid	H317,H334	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mg	Glass Bottle			
Penicillin-Streptomycin				Liquid	H317,H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle			
Lipopolysaccharides, from Escherichia coli 0127:B8 Detoxified		93572-42-0		Solid	H312,H332,H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mg	Plastic Bottle			
Potassium phosphate monobasic		7778-77-0	H2KO4P	Solid	H313,H315,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
MEM NEAA		7732-18-5, 56-86-0, 56-45-1, 147-85-3, 56-84-8, 56-40-		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle			
Sodium carbonate		497-19-8	CNa2O3	Solid	H303,H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
Skim milk powder				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mg	Glass Bottle			
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H412	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	g	Plastic Bottle			
Sodium pyruvate, 100mM aqueous solution		113-24-6, 7732-18-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle	0.1	M	Water
Keratinocyte Growth Supplements for Keratinocyte Calcium-Free Growth Medium		28822-58-4, 9041-08-1, 50-23-7, 16561-29-8, 1397-89-3, 51-43-4, 50-02-2, 53-86-1, 302-79-4, 1406-05-9, 427-51-		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	mg	Glass Bottle			
Tris(2,2'-bipyridyl)dichlororuthenium(II) hexahydrate		50525-27-4	C30H24Cl2N6Ru · 6H2O	Solid	H315,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			
Zinc sulfate heptahydrate		7446-20-0	H14O11SZn	Solid	H302,H318,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	4	4	L	Plastic Bottle			
Aluminum chloride		7446-70-0	AlCl3	Solid	H303,H314,H318,H372,H373,H402	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	L	Glass Bottle			
Cadmium chloride		10108-64-2	CdCl2	Solid	H301,H330,H330,H340,H340,H350,H350,H360,H360,H372,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	g	Glass Bottle			
Alginic acid sodium salt		9005-38-3		Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Calcein		1461-15-0	C30H26N2O13	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	mg	Plastic Bottle			
Agarose		9012-36-6		Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	g	Plastic Bottle			
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
CelLytic(TM) M Cell Lysis Reagent		, 7732-18-5, 150-25-4, 7647-14-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Plastic Bottle			
CelLytic(TM) M Cell Lysis Reagent		, 7732-18-5, 150-25-4, 7647-14-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Plastic Bottle			
N,N-Dimethylformamide		68-12-2	C3H7NO	Liquid	H226,H303,H312,H316,H319,H332,H360,H360	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle			
Dextran sulfate sodium salt		9011-18-1	C12H22O25S5	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	g	Plastic Bottle			
DMEM / F12 (1:1)				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Iron(III) citrate		3522-50-7	C6H5FeO7	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	g	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
BioWhittaker Hank's Balanced Salt Solutions (1X)				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
L-Glutamine Solution		56-85-9, 7732-18-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle	0.2	M	Water
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Lipopolysaccharides, from Escherichia coli 0127:B8 Detoxified		93572-42-0		Solid	H312,H332,H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mg	Plastic Bottle			
Ionomycin calcium salt		56092-82-1	C41H70CaO9	Solid	H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	mg	Plastic Bottle			
Magnesium chloride hexahydrate		7791-18-6	Cl2Mg · 6H2O	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
Mineral oil		8042-47-5		Liquid	H304	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle			
MES hydrate		1266615-59-1	C6H13NO4S · xH2O	Solid	H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Polydimethylsiloxane (silicone) emulsion				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Protease from Streptomyces griseus		9036-06-0		Solid	H334,H303,H335,H319,H315	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			

Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box			
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box			
Sodium acetate		127-09-3	C2H3NaO2	Solid	H303,H316,H320,H333	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
Poly-D-lysine hydrobromide		27964-99-4		Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	mg	Glass Bottle			
Mepacrine dihydrochloride		69-05-6	C23H30ClN3O · 2HCl	Solid	H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
Silica		7631-86-9	O2Si	Solid	H319,H303,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	g	Plastic Bottle			
Sodium hydroxide 10N aqueous solution		1310-73-2	HNaO	Liquid	H314,H314,H314	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	L	Plastic Bottle			
Tris base		77-86-1	C4H11NO3	Solid	H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Plastic Bottle			
TWEEN 80		9005-65-6	C32H60O10	Liquid	H316,H320	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Calcium D-gluconate		299-28-5	C12H22CaO14	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
Citric acid		77-92-9	C6H8O7	Solid	H313,H315,H316,H318,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Dextran sulfate sodium salt		9011-18-1	C12H22O25S5	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	g	Plastic Bottle			
Dextran sulfate sodium salt		9011-18-1	C12H22O25S5	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	g	Plastic Bottle			
Digitoxin		71-63-6	C41H64O13	Solid	H373,H300,H331	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			
Dispase from Bacillus polymyxa		42613-33-2		Solid	H319,H315,H334,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	g	Plastic Bottle			
Diuron		330-54-1	C9H10Cl2N2O	Solid	H302,H351,H373,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Dulbecco's phosphate buffered saline solution (DPBS)		7778-77-0, 7732-18-5, 7647-14-5, 7558-79-4, 7447-40-7		Liquid	H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
EDTA		60-00-4	C10H16N2O8	Solid	H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Guillard's (F/2) Marine Enrichment Basal Salt Mixture powder, plant cell culture t		10028-24-7, 13517-24-3, 7631-99-4		Solid	H272,H302,H318,H335,H314	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Plastic Bottle			
cellgro Hank's Balanced Salt Solution, 10X				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Heparin sodium salt		9041-08-1	C12H17NO20S3-4	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mg	Glass Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Mitomycin C, contains NaCl as solubilizer		50-07-7		Solid	H302,H316,H351	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2	2	mg	Glass Bottle			
Monensin sodium salt		22373-78-0	C36H61NaO11	Solid	H300	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mg	Glass Bottle			
Phosphate buffered saline solution		7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	L	Glass Bottle			
Poly(acrylic acid sodium salt)		9003-04-7	(C3H3NaO2)n	Liquid	H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle	35	% wt.	Water
Potassium gluconate		299-27-4	C6H11KO7	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
Restore Western Blot Stripping Buffer				Liquid	H290,H315,H318	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Streptomycin sulfate		3810-74-0	C21H39N7O12 · 1.5H2O4S	Solid	H302,H361	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
Thiamine hydrochloride		67-03-8	C12H18ClN4OS	Solid	H303,H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Titanium dioxide		1317-70-0	O2Ti	Solid	H351	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	g	Glass Bottle			
Adenosine 5'-(tetrahydrogen triphosphate), disodium salt, trihydrate		51963-61-2	C10H20N5Na2O16P3	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	g	Glass Bottle			
Dulbecco's Modified Eagle's Medium (DMEM)		5934-29-2, 72-18-4, 61-90-5, 98-92-0, 73-22-3, 34487-61-1, 7782-61-8, 15595-35-4, 56-40-6, , 72-19-5, 144-55-8, 7647-14-5, 56-85-9, 50-99-7, 52-89-1, 113-24-6, 67-48-1, 7732-18-5, 58-56-0, 657-27-2, 63-91-2, 7558-79-4, 73-32-5, 83-88-5, 63-68-3, 87-89-8, 56-45-1, 59-30-3, 137-		Liquid	H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Gentamicin sulfate salt		1405-41-0		Solid	H317,H334	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mg	Plastic Bottle			
FBS-USA, HI, GI,		, 7732-18-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Kanamycin sulfate		25389-94-0	C18H36N4O11 · H2O4S	Solid	H303,H312,H332,H360,H360	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	g	Glass Bottle			
Magnesium sulfate		7487-88-9	MgO4S	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	4	4	L	Glass Bottle			
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	240	240	mL	Box			
N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride		25952-53-8	C8H18ClN3	Solid	H315,H318,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	g	Glass Bottle			
Nile Red		7385-67-3	C20H18N2O2	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mg	Glass Bottle			
Potassium chloride		7447-40-7	ClK	Solid	H303	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Plastic Bottle			
Protease from Streptomyces griseus		9036-06-0		Solid	H334,H303,H335,H319,H315	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			
Sea salts				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle			
Sodium succinate dibasic hexahydrate		6106-21-4	C4H16Na2O10	Solid	H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Trypsin-EDTA Solution				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle	0.5	% wt.	Water
2-Mercaptoethanol		60-24-2	C2H6OS	Liquid	H227,H301,H310,H310,H315,H317,H317,H317,H318,H331,H335,H373,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle			
Adenosine-3',5'-cyclic monophosphate		60-92-4	C10H12N5O6P	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Plastic Bottle			
Alcian Blue 8GX		75881-23-1	C56H68Cl4CuN16S4	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	g	Plastic Bottle			
Ammonium chloride		12125-02-9	ClH4N	Solid	H302,H319,H401,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
Butylamine		109-73-9	C4H11N	Liquid	H225,H290,H302,H311,H314,H318,H331	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	L	Glass Bottle			
Gibco Cell Dissociation Buffer, Enzyme-Free, Hank's Balanced Salt Solution				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle			
Dextran sulfate sodium salt	Dextran sulfate sodium	9011-18-1	C12H22O25S5	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	g	Plastic Bottle			
D-(+)-Glucose		50-99-7	C6H12O6	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Plastic Bottle			
Ethylene glycol-bis(beta-aminoethyl ether)-N,N,N',N'-tetraacetic acid tetrasodium		13368-13-3	C14H20N2Na4O10	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	g	Glass Bottle			
Iron(III) chloride hexahydrate		10025-77-1	Cl3Fe · 6H2O	Solid	H290,H302,H314,H315,H318	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box			
Protease from Streptomyces griseus		9036-06-0		Solid	H334,H303,H335,H319,H315	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			
Sodium bicarbonate		144-55-8	CHNaO3	Solid	H303	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle			
Sodium cacodylate trihydrate		6131-99-3	C2H12AsNaO5	Solid	H301,H313,H331,H351,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Sodium nitrate		7631-99-4	NaNO3	Solid	H272,H272,H272,H272,H303,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	lb	Cylinder			
Gibco Collagenase, Type IV, Powder				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
cellgro Hank's Balanced Salt Solution, 10X				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
cellgro Hank's Balanced Salt Solution, 10X				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Lactobionic acid		96-82-2	C12H22O12	Solid	H313,H316,H320	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
Neomycin trisulfate salt hydrate		1405-10-3	C23H46N6O13 · 3H2SO4 · xH2O	Solid	H317,H334	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
Potassium hydroxide		1310-58-3	HKO	Solid	H290,H302,H314,H318,H402	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
Ruthenium Red		11103-72-3	Cl6H42N14O2Ru3	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			
Keratinocyte Growth Supplements for Keratinocyte Calcium-Free Growth Mediun		28822-58-4, 9041-08-1, 50-23-7, 16561-29-8, 1397-89-3, 51-43-4, 50-02-2, 53-86-1, 302-79-4, 1406-05-9, 427-51-		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	mg	Glass Bottle			
TMB Substrate Solution				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Plastic Bottle			
Toluene		108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle			
Trypsin-EDTA Solution				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle	0.5	% wt.	Water
Argon (gas)		7440-37-1	Ar	Gas	H280	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	335	335	ft3	Cylinder			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder			
Cell Counting Kit-8				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	other	Glass Bottle			
CellLytic(TM) M Cell Lysis Reagent		, 7732-18-5, 150-25-4, 7647-14-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Plastic Bottle			
Deferoxamine mesylate		138-14-7	C26H52N6O11S	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Plastic Bottle			
Ethylenediaminetetraacetic acid tetrasodium salt hydrate		194491-31-1	C10H14N2Na4O9	Solid	H318,H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			

Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
cellgro Hank's Balanced Salt Solution, 10X				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
cellgro Hank's Balanced Salt Solution, 10X				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box			
N-Acetyl-L-cysteine		616-91-1	C5H9NO3S	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
Nitrogen (Liquid)		7727-37-9	N2	Liquid	H280,H281	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	240	240	L	Cryogenic Dewar			
Protease from Streptomyces griseus		9036-06-0		Solid	H334,H303,H335,H319,H315	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			
Keratinocyte Growth Supplements for Keratinocyte Calcium-Free Growth Mediun		28822-58-4, 9041-08-1, 50-23-7, 16561-29-8, 1397-89-3, 51-43-4, 50-02-2, 53-86-1, 302-79-4, 1406-05-9, 427-51-		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	mg	Glass Bottle			
Tris hydrochloride	Trizma Hydrochloride	1185-53-1	C4H12ClNO3	Solid	H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
TWEEN 20		9005-64-5	(C26H50O10)n	Liquid	H316	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle			
Biotin		58-85-5	C10H16N2O3S	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Plastic Bottle			
5-Bromo-2'-deoxyuridine		59-14-3	C9H11BrN2O5	Solid	H340,H341,H351,H361	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	15	15	mL	Glass Bottle			
Chlortetracycline hydrochloride		64-72-2	C22H23ClN2O8 · HCl	Solid	H303,H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Plastic Bottle			
Dulbecco's Modified Eagle's Medium (DMEM)		5934-29-2, 72-18-4, 61-90-5, 98-92-0, 73-22-3, 34487-61 1, 7782-61-8, 15595-35-4, 56-40-6, , 72-19-5, 144-55-8, 7647-14-5, 56-85-9, 50-99-7, 52-89-1, 113-24-6, 67-48- 1, 7732-18-5, 58-56-0, 657-27-2, 63-91-2, 7558-79-4, 73- 32-5, 83-88-5, 63-68-3, 87-89-8, 56-45-1, 59-30-3, 137-		Liquid	H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
HEPES sodium salt		75277-39-3	C8H17N2NaO4S	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	L	Glass Bottle			
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle			
LB Agar, Lennox				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle			
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	L	Glass Bottle			
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box			
Paraformaldehyde		30525-89-4	CH2O	Solid	H228,H302,H315,H317,H318,H332,H335,H351,H402	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			
Peptone		73049-73-7	C13H24O4	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
Sodium D-gluconate		527-07-1	C6H11NaO7	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	lb	Can			
Sodium phosphate monobasic	Sodium phosphate	7558-80-7	H2NaO4P	Solid	H315,H319,H320,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Plastic Bottle			
Sodium sulfate		7757-82-6	Na2O4S	Solid	H402	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
Keratinocyte Growth Supplements for Keratinocyte Calcium-Free Growth Mediun		28822-58-4, 9041-08-1, 50-23-7, 16561-29-8, 1397-89-3, 51-43-4, 50-02-2, 53-86-1, 302-79-4, 1406-05-9, 427-51-		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	mg	Glass Bottle			
Titanium(IV) oxide	Titanium(IV) oxide nanopowder, 21 nm	13463-67-7	O2Ti	Solid	H316	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
TMB Substrate Solution				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Plastic Bottle			
Vanadium(V) oxide		1314-62-1	O5V2	Solid	H302,H318,H332,H335,H341,H361,H372,H401,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
Carbon, mesoporous		1333-86-4	C	Solid	H351	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	g	Glass Bottle			
Copper(II) sulfate pentahydrate		7758-99-8	CuH10O9S	Solid	H301,H302,H313,H315,H319,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	g	Plastic Bottle			
Decalin, mixture of cis and trans		91-17-8	C10H18	Liquid	H226,H303,H304,H314,H318,H331,H401,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle			
Dulbecco's Modified Eagle's Medium (DMEM)		5934-29-2, 72-18-4, 61-90-5, 98-92-0, 73-22-3, 34487-61 1, 7782-61-8, 15595-35-4, 56-40-6, , 72-19-5, 144-55-8, 7647-14-5, 56-85-9, 50-99-7, 52-89-1, 113-24-6, 67-48- 1, 7732-18-5, 58-56-0, 657-27-2, 63-91-2, 7558-79-4, 73- 32-5, 83-88-5, 63-68-3, 87-89-8, 56-45-1, 59-30-3, 137-		Liquid	H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	L	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle			
Iron(III) chloride hexahydrate		10025-77-1	Cl3Fe · 6H2O	Solid	H290,H302,H314,H315,H318	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Methylamine hydrochloride		593-51-1	CH6ClN	Solid	H302,H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
(-)-Nicotine hemisulfate salt >=95% (TLC), ~35 % (w/v) in H2O (based on free base		65-30-5, 7732-18-5	C20H28N4 · H2O4S	Liquid	H301,H319,H310,H315,H330,H335,H401	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Peroxidase from horseradish		9003-99-0		Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mg	Plastic Bottle			
Polystyrene		9003-53-6	C8H8	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	0.5	0.5	g	Glass Bottle			
Sodium azide		26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	g	Plastic Bottle			
Sodium chloride		7647-14-5	ClNa	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle			
Sodium metasilicate nonahydrate		13517-24-3	H18Na2O12Si	Solid	H314,H318,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle			
Sodium molybdate dihydrate		10102-40-6	H4MoNa2O6	Solid	H320	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Titanium(IV) oxide		13463-67-7	O2Ti	Liquid	H316	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle	5	% wt.	Water
3,3',5,5'-Tetramethylbenzidine		54827-17-7	C16H20N2	Liquid	H302,H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	lb	Cylinder			
Guillard's (F/2) Marine Enrichment Basal Salt Mixture powder, plant cell culture t		10028-24-7, 13517-24-3, 7631-99-4		Solid	H272,H302,H318,H335,H314	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	39	39	mL	Plastic Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Hyaluronidase (Bovine)				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	g	Plastic Bottle			
KnockOut DMEM				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
Manganese(II) chloride tetrahydrate		13446-34-9	Cl2Mn · 4H2O	Solid	H301,H302,H402,H412	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
MEM NEAA		7732-18-5, 56-86-0, 56-45-1, 147-85-3, 56-84-8, 56-40-6,	56-41-7, 5794-13-8	Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle			
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box			
N-Methyl-D-glucamine		6284-40-8	C7H17NO5	Solid	H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
Silica		7631-86-9	O2Si	Solid	H319,H303,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	g	Plastic Bottle			
Sodium nitrate		7631-99-4	NaNO3	Solid	H272,H272,H272,H272,H303,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle			
Sucrose		57-50-1	C12H22O11	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Plastic Bottle			
Keratinocyte Growth Supplements for Keratinocyte Calcium-Free Growth Mediun		28822-58-4, 9041-08-1, 50-23-7, 16561-29-8, 1397-89-3, 51-43-4, 50-02-2, 53-86-1, 302-79-4, 1406-05-9, 427-51-		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	mg	Glass Bottle			
Verapamil hydrochloride		152-11-4	C27H39ClN2O4	Solid	H331,H301,H311	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle			
Yeast extract		8013-01-2		Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Can			
Agar		9002-18-0	C14H24O9	Solid	H373	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
Caffeine		58-08-2	C8H10N4O2	Solid	H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle			
Chromium(III) potassium sulfate dodecahydrate		7788-99-0	CrH24KO20S2	Solid	H303,H315,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle			
DMEM / F12 (1:1)				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle			
EDTA tetrasodium salt dihydrate		10378-23-1	C10H16N2Na4O10	Solid	H302,H318	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Iron(II) fumarate		141-01-5		Solid	H303	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	g	Plastic Bottle			
Fetal bovine serum				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Gelatin		9000-70-8		Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle			
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
cellgro Hank's Balanced Salt Solution, 10X				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle			
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle			
Latex beads, amine-modified polystyrene, fluorescent blue				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Glass Bottle			

LB Broth, Lennox		, 8013-01-2, 7647-14-5		Solid	H316	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle				
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	L	Glass Bottle				
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box				
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box				
Monoclonal Anti-Glial Fibrillary Acidic Protein (GFAP) antibody produced in mous		, 26628-22-8		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	0.2	0.2	mL	Glass Bottle				
Menadione sodium bisulfite		130-37-0	C11H9NaO5S	Liquid	H319,H315	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	mL	Glass Bottle				
Dichloromethane		75-09-2	CH2Cl2	Liquid	H302,H303,H313,H315,H319,H320,H335,H336,H351,H373	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2	2	L	Glass Bottle				
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle				
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle				
cellgro Hank's Balanced Salt Solution, 10X				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle				
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle				
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle				
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle				
L-Glutamic acid monopotassium salt monohydrate		6382-01-0	C5H8KNO4 · H2O	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle				
L-Glutamine Solution		56-85-9, 7732-18-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle	0.2	M	Water	
Lithium bromide		7550-35-8	BrLi	Solid	H302,H315,H317,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	kg	Glass Bottle				
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	12	12	mL	Box				
Monoclonal Anti-Tyrosine Hydroxylase antibody produced in mouse clone TH-2, a		, 26628-22-8		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	0.2	0.2	mL	Glass Bottle				
Qentix Western Blot Signal Enhancer				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Glass Bottle				
Sodium azide		26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	g	Glass Bottle				
TWEEN 20		9005-64-5	(C26H50O10)n	Liquid	H316	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle				
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle				
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2.5	2.5	L	Glass Bottle				
Bovine serum albumin		9048-46-8		Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle				
Goat anti-Mouse IgG2b Secondary Antibody, Alexa Fluor 555, Invitrogen				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	other	Plastic Bottle				
CellLytic(TM) M Cell Lysis Reagent		, 7732-18-5, 150-25-4, 7647-14-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Plastic Bottle				
Chitosan		9012-76-4	(C6H11NO4)n	Solid	H401	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	g	Plastic Bottle				
Dexamethasone		50-02-2	C22H29FO5	Solid	H319,H317,H334,H303,H335,H315	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Plastic Bottle				
Diethyl oxalacetate sodium salt		40876-98-0	C8H11NaO5	Solid	H302,H315,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Plastic Bottle				
Dulbecco's Modified Eagle's Medium (DMEM)		5934-29-2, 72-18-4, 61-90-5, 98-92-0, 73-22-3, 34487-61-1, 7782-61-8, 15595-35-4, 56-40-4		Liquid	H316,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle				
Glutaraldehyde, 25% aqueous solution		111-30-8	C5H8O2	Liquid	H302,H314,H317,H318,H332,H334,H335,H400,H411	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mL	Glass Bottle				
BioWhittaker Hank's Balanced Salt Solutions (1X)				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle				
Hemin		16009-13-5	C34H32ClFeN4O4	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Glass Bottle				
FBS-USA, HI, GI,		, 7732-18-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle				
FBS-USA, HI, GI,		, 7732-18-5		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Plastic Bottle				
Nigericin sodium salt, 98+%		28380-24-7	C40H67NaO11	Solid	H301,H315,H319,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	mg	Glass Bottle				
Penicillin-Streptomycin				Liquid	H317,H302	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle				
Phthaldialdehyde		643-79-8	C8H6O2	Solid	H301,H313,H314,H317,H318,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	g	Glass Bottle				
Polystyrene		9003-53-6	C8H8	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	0.5	0.5	g	Glass Bottle				
Chemicon Collagen Type III, Bovine Purified Protein				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle				
Sodium cacodylate trihydrate		6131-99-3	C2H12AsNaO5	Solid	H301,H313,H331,H351,H400,H410	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	g	Glass Bottle				
Sulfuric acid		7664-93-9	H2O4S	Liquid	H318,H290,H303,H314,H350,H330	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle				
Trichloro(1H,1H,2H,2H-perfluorooctyl)silane		78560-45-9	C8H4Cl3F13Si	Liquid	H314,H227,H318	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	25	25	mL	Glass Bottle				
Trypsin-EDTA Solution				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Plastic Bottle	0.5	% wt.	Water	
Acrylamide/Bis-acrylamide, 30% solution, 24:1		7732-18-5, 79-06-1, 110-26-9		Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H402	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	mL	Glass Bottle				
Buffer P1 Resuspension buffer				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	20	20	mL	Plastic Bottle				
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Plastic Bottle				
Collagenase		9001-12-1		Solid	H315,H319,H334,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Plastic Bottle				
Gibco Collagenase, Type IV, Powder				Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Plastic Bottle				
Guillard's (F/2) Marine Enrichment Basal Salt Mixture powder, plant cell culture tested		10028-24-7, 13517-24-3, 7631-99-4		Solid	H272,H302,H318,H335,H314	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	50	50	mL	Plastic Bottle				
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle				
Abnova Histamine ELISA Kit				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Plastic Bottle				
MEM NEAA		7732-18-5, 56-86-0, 56-45-1, 147-85-3, 56-84-8, 56-40-6, 56-41-7, 5794-13-8		Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	100	100	mL	Glass Bottle				
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	240	240	mL	Box				
Pierce Micro BCA Protein Assay				Liquid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	mL	Box				
Mitomycin C, contains NaCl as solubilizer		50-07-7		Solid	H302,H316,H351	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	2	2	mg	Glass Bottle				
Nicotine		54-11-5	C10H14N2	Liquid	H300,H301,H310,H400	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	250	250	mL	Glass Bottle				
Nile Red		7385-67-3	C20H18N2O2	Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	10	10	mg	Glass Bottle				
Sodium hydrogen sulfate		7681-38-1	HNaO4S	Solid	H318	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	500	500	g	Glass Bottle				
Trypsin	Trypsin from porcine pancreas lyophilized	9002-07-7		Solid	H315,H317,H319,H334,H335	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	5	g	Glass Bottle				
VITAMIN B-12 CRYSTALLINE		68-19-9		Solid		Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	g	Glass Bottle				
2-Propanol-d8		22739-76-0	C3H8O	Liquid	H225,H316,H319,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	L	Glass Bottle				
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	L	Glass Bottle				
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	5	4	gal	Plastic Bottle				
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	1	1	gal	Plastic Bottle				
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder				
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder				
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle				

HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle			
HistoPrep 100% EA		67-63-0, 64-17-5, 67-56-1		Liquid	H224,H302,H332,H336,H350,H372	Chin Lab	Science and Engineering Building	First Floor	144A	Not in Specific Location	1	1	gal	Plastic Bottle			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Chin Lab	Science and Engineering Building	Third Floor	335	Not in Specific Location	4	4	L	Glass Bottle			

Chemical Name	Substance Name	CAS	Molecular	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Sublocation	Size	Amount	Units	Container Type
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Nickel(II) chloride hexahydrate		7791-20-0	Cl2Ni · 6H2	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H400,H410	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	250	250	g	Glass Bottle
Nickel(II) chloride hexahydrate		7791-20-0	Cl2Ni · 6H2	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H400,H410	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	250	250	g	Glass Bottle
Nickel(II) chloride hexahydrate		7791-20-0	Cl2Ni · 6H2	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H400,H410	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	500	500	g	Glass Bottle
Nickel(II) chloride hexahydrate		7791-20-0	Cl2Ni · 6H2	Solid	H301,H315,H317,H331,H334,H341,H350,H360,H372,H400,H410	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	500	500	g	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	100	100	mL	Glass Bottle
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	100	100	mL	Glass Bottle
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	100	100	mL	Glass Bottle
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	100	100	mL	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Ammonium hydroxide, 25-30% solution in water		1336-21-6		Liquid	H302,H314,H318,H400,H411	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	500	500	mL	Glass Bottle
Ethanol, 190 Proof		64-17-5	C2H6O	Liquid	H225,H319	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	2.5	2.5	L	Glass Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	1	1	kg	Plastic Bottle
Hydrochloric acid, concentrated (~37% solution in water)		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	500	500	mL	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Ethanol, 190 Proof		64-17-5	C2H6O	Liquid	H225,H319	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Plastic Bottle
Ethanol, 190 Proof		64-17-5	C2H6O	Liquid	H225,H319	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Plastic Bottle
Ethanol, 190 Proof		64-17-5	C2H6O	Liquid	H225,H319	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Plastic Bottle
Ethanol, 190 Proof		64-17-5	C2H6O	Liquid	H225,H319	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Plastic Bottle
Chloroform, stabilized		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H336,H351,H361,H372,H373,H402,H335,H360	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	500	500	mL	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Acetonitrile		75-05-8	C2H3N	Liquid	H225,H302,H312,H319,H332	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	2.5	2.5	L	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Eva de Alba's Laboratory	Science & Engineering 2	Third Floor	340	Not in Specific Location	4	4	L	Glass Bottle

De Alba, E
BSP 3rd Floor

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory	Building	Floor	Room Number	Size	Amount	Units	Container Type	Concentra	Concentration Units	Solvent
Ferric chloride solution		7705-08-0,	7732-18-5	Liquid	H313,H303,H401,H318,H315,H290	Castle	Castle Building 1201	1 - First Floor	1400	1	1	L	Glass Bottle	45	% wt.	Water
Iron(III) chloride hexahydrate		10025-77-	Cl3Fe · 6H2O	Solid	H290,H302,H314,H315,H318	Castle	Castle Building 1201	1 - First Floor	1400	500	500	g	Plastic Bottle			
Cobalt(II) chloride hexahydrate		7791-13-1	Cl2Co · 6H2O	Solid	H302,H313,H314,H317,H318,H334,H341,H350,H360,H400,H410	Castle	Castle Building 1201	1 - First Floor	1400	100	100	g	Plastic Bottle			
Potassium hydroxide aqueous solution (30% to 50%)		1310-58-3	HKO	Liquid	H302,H314,H290,H318,H335	Castle	Castle Building 1201	1 - First Floor	1400	500	500	mL	Plastic Bottle	0.5	M	Water

Gopinath, A
BSP 3rd Floor

Chemical Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
2-Mercaptoethanol	60-24-2	C2H6OS	Liquid	H227,H301,H310,H310,H315,H317,H317,H317,H318,H331,H335,H373,H400,H410	Ni Laboratory	Science and Engineering Building	Third Floor	343	100	100	g	Glass Bottle
Isopropanol	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Ni Laboratory	Science and Engineering Building	Third Floor	343	4	4	L	Glass Bottle
Methanol	67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Ni Laboratory	Science and Engineering Building	Third Floor	343	4	4	L	Glass Bottle
Phosphate buffered saline solution	7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Ni Laboratory	Science and Engineering Building	Third Floor	343	1	1	L	Plastic Bottle
Sodium hydroxide	1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Ni Laboratory	Science and Engineering Building	Third Floor	343	500	500	g	Plastic Bottle
Phosphate buffered saline solution	7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Ni Laboratory	Science and Engineering Building	Third Floor	343	1	1	L	Plastic Bottle
Potassium chloride	7447-40-7	ClK	Solid	H303	Ni Laboratory	Science and Engineering Building	Third Floor	343	500	500	g	Plastic Bottle
Hydrogen peroxide, > 27.5 to ≤ 35 % in water	7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Ni Laboratory	Science and Engineering Building	Third Floor	343	500	500	mL	Glass Bottle
Phosphate buffered saline solution	7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Ni Laboratory	Science and Engineering Building	Third Floor	343	1	1	L	Plastic Bottle
Sephacryl S-400 High Resolution Media			Solid		Ni Laboratory	Science and Engineering Building	Third Floor	343	750	750	mL	Plastic Bottle
Hydrogen peroxide, > 27.5 to ≤ 35 % in water	7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Ni Laboratory	Science and Engineering Building	Third Floor	343	500	500	mL	Glass Bottle
Magnesium sulfate	7487-88-9	MgO4S	Solid		Ni Laboratory	Science and Engineering Building	Third Floor	343	500	500	g	Plastic Bottle
Phosphate buffered saline solution	7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Ni Laboratory	Science and Engineering Building	Third Floor	343	1	1	L	Plastic Bottle
Formaldehyde, 37 wt.% solution in water, methanol-free	50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H351,H402	Ni Laboratory	Science and Engineering Building	Third Floor	343	1	1	L	Glass Bottle
Hydrochloric acid, concentrated (~37% solution in water)	7647-01-0	HCl	Liquid	H318,H290,H335,H314	Ni Laboratory	Science and Engineering Building	Third Floor	343	100	100	mL	Glass Bottle
Phenylthiourea	103-85-5	C7H8N2S	Solid	H300,H317	Ni Laboratory	Science and Engineering Building	Third Floor	343	250	250	g	Glass Bottle
Chloroform	67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Ni Laboratory	Science and Engineering Building	Third Floor	343	1	1	L	Glass Bottle
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Ni Laboratory	Science and Engineering Building	Third Floor	343	4	4	L	Glass Bottle
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Ni Laboratory	Science and Engineering Building	Third Floor	343	4	4	L	Glass Bottle
Phosphate buffered saline solution	7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Ni Laboratory	Science and Engineering Building	Third Floor	343	1	1	L	Plastic Bottle
Phosphate buffered saline solution	7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Ni Laboratory	Science and Engineering Building	Third Floor	343	1	1	L	Plastic Bottle
Reagent alcohol, ≥70%	64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Ni Laboratory	Science and Engineering Building	Third Floor	343	4	4	L	Glass Bottle

Ni, C
BSP 3rd Floor

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Sublocation	Size	Amount	Units	Container Type
Ethanol, 200 proof		64-17-5	C2H6O	Gas	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Spencer Lab	Science and Engineering Building		006	SE1 06	1	1	pint	Glass Bottle
Paraformaldehyde		30525-89-4	CH2O	Solid	H228,H302,H315,H317,H318,H332,H335,H351,H402	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	500	500	g	Plastic Bottle
Hydrochloric acid, 6 N solution		7647-01-0	HCl	Liquid	H290,H314,H315,H318,H319,H335	Spencer Lab	Science and Engineering Building		012	SE1 room 12	1	1	L	Plastic Bottle
Sodium Hydroxide 1N		1310-73-2	NaOH	Liquid	H315,H290,H318	Spencer Lab	Science and Engineering Building		012	SE1 room 12	1	1	L	Plastic Bottle
Acryl AquaClean				Liquid		Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	500	500	mL	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	500	500	mL	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	1	1	L	Glass Bottle
Methylcellulose		9004-67-5		Solid		Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	250	250	g	Plastic Bottle
Agar		9002-18-0	C14H24O9	Solid	H373	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	100	100	g	Plastic Bottle
Dichloromethane		75-09-2	CH2Cl2	Liquid	H302,H303,H313,H315,H319,H320,H335,H336,H351,H373	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	1	1	L	Glass Bottle
2,2'-Azobis[2-(2-imidazolin2-yl)propane]dihydrochloride		27776-21-2	C12H22N6.2ClH	Solid	H302,H315,H319,H335	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	50	50	g	Plastic Bottle
Diphenyl ether		101-84-8	C12H10O	Solid	H303,H316,H319,H401,H411	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	100	100	g	Plastic Bottle
Benzyl benzoate		120-51-4	C14H12O2	Liquid	H302,H313,H401,H411	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	500	500	mL	Glass Bottle
Benzyl alcohol		100-51-6	C7H8O	Liquid	H302,H319,H332,H401	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	1	1	L	Glass Bottle
Vitamin E		10191-41-0	C29H50O2	Solid	H317	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	250	250	g	Glass Bottle
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	1	1	L	Glass Bottle
tert-Butanol		75-65-0	C4H10O	Liquid	H225,H302,H303,H313,H315,H316,H319,H332,H333,H335,H336	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	1	1	L	Plastic Bottle
TWEEN 20		9005-64-5	(C26H50O10)n	Liquid	H316	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	1	1	L	Plastic Bottle
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Liquid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H412	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	500	500	mL	Plastic Bottle
Triton X-100		9002-93-1	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	100	100	mL	Plastic Bottle
Ammonium chloride		12125-02-9	ClH4N	Solid	H302,H319,H401,H411	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	500	500	g	Plastic Bottle
EDTA		60-00-4	C10H16N2O8	Solid	H319	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	500	500	g	Plastic Bottle
Bovine serum albumin		9048-46-8		Solid		Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	100	100	g	Plastic Bottle
Evans Blue		314-13-6	C34H24N6Na4O14S4	Solid	H350	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	10	10	g	Glass Bottle
IGEPAL CA-630		75-21-8, 123-91-1, 9002-93-1		Liquid	H302,H316,H319,H401,H411	Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	15	15	mL	Glass Bottle
Iohexol		66108-95-0	C19H26I3N3O9	Solid		Spencer Lab	Castle Building 1200	First Floor	151	Not in Specific Location	100	100	g	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Spencer Lab	Science and Engineering Building	B - Basement	012	SE1 room 12	2.5	2.5	L	Glass Bottle
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	Spencer Lab	Science and Engineering Building	B - Basement	006	SE1 06	304	304	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	Spencer Lab	Science and Engineering Building	B - Basement	006	SE1 06	304	304	ft3	Cylinder

Spencer, J
BSP 3rd Floor

Chemical Name	Substance Name	CAS	Molecular Formula	Physical St	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
3-Aminopropyltriethoxysilane		919-30-2	C9H23NO3Si	Liquid	H227,H302,H314,H317,H318	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mL	Glass Bottle
Ethyl acetate		141-78-6	C4H8O2	Liquid	H225,H319,H333,H336	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Glass Bottle
Calcium chloride, aqueous solution		10043-52-4	CaCl2	Liquid	H319	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mL	Plastic Bottle
Cellulose	Cellulose colloidal, microcrystalline	9004-34-6	(C6H10O5)n	Solid	H313	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	250	250	g	Plastic Bottle
Chloro-decyl-dimethylsilane		38051-57-9	C12H27ClSi	Liquid	H318,H314	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	25	25	mL	Glass Bottle
Decane		124-18-5	C10H22	Liquid	H226,H304	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Glass Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	mL	Glass Bottle
Fluorescein isothiocyanate - Dextran 500000-Conjugate (FITC:Glucose = 1:100)				Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mg	Glass Bottle
Allura Red AC		25956-17-6	C18H14N2Na2O8S2	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	5	5	g	Glass Bottle
Sodium chloride		7647-14-5	ClNa	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	g	Plastic Bottle
Hydrochloric Acid - 1N		7647-01-0		Liquid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Plastic Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	4	4	L	Glass Bottle
Poly(vinyl alcohol)		9002-89-5	C2H4O	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	25	25	g	Plastic Bottle
Triethylamine		121-44-8	C6H15N	Liquid	H225,H302,H311,H312,H314,H314,H314,H318,H331,H332,H335,H401	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Glass Bottle
Hexane		110-54-3	C6H14	Liquid	H225,H304,H315,H320,H336,H361,H373,H401,H411	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mL	Glass Bottle
Nile Red		7385-67-3	C20H18N2O2	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mg	Glass Bottle
Sodium azide		26628-22-8	N3Na	Liquid	H300,H300,H310,H310,H373,H400,H410	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	mL	Box
Universal indicator solution pH 3-10 pH 3-10		64-17-5,		Liquid	H319,H225	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	120	120	mL	Glass Bottle
Tartrazine		1934-21-0	C16H9N4Na3O9S2	Solid	H334,H317	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	g	Glass Bottle
Fluorescein sodium salt		518-47-8	C20H10Na2O5	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	25	25	g	Plastic Bottle
Dichloromethane	Methylene Chloride, BAKER ANALYZED A.C.S. Reagent, J.T.Baker	75-09-2	CH2Cl2	Liquid	H302,H303,H313,H315,H319,H320,H335,H336,H351,H373	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	mL	Glass Bottle
Methyltrichlorosilane		75-79-6	CH3Cl3Si	Solid	H225,H302,H312,H314,H315,H318,H319,H331,H335	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	g	Other
Polyethylenimine, linear (liquid)		9002-98-6	(C2H5N)n	Liquid	H302,H317,H319,H401,H411	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mL	Glass Bottle
Sodium carboxymethyl cellulose		9004-32-4	(C2H4O3)x . (Na)x	Solid	H313,H402	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	g	Plastic Bottle
Phenylmethylsulfonyl fluoride		329-98-6	C7H7FO2S	Solid	H301,H314,H314,H314,H318	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	5	5	g	Glass Bottle
Sodium chloride		7647-14-5	ClNa	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	250	250	g	Plastic Bottle
Hexadecane		544-76-3	C16H34	Liquid	H304,H313	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mL	Glass Bottle
Dichloromethane	Methylene Chloride, BAKER ANALYZED A.C.S. Reagent, J.T.Baker	75-09-2	CH2Cl2	Liquid	H302,H303,H313,H315,H319,H320,H335,H336,H351,H373	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	mL	Glass Bottle
Polyethylene glycol (solid)		25322-68-3	C2nH4n+2On+1	Solid	H316,H320	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	5	5	g	Glass Bottle
Potassium chloride		7447-40-7	ClK	Solid	H303	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	g	Plastic Bottle
Sucrose		57-50-1	C12H22O11	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	g	Plastic Bottle
Tris buffered saline (solid)		7447-40-7, 1185-53-1, 9005-64-5		Solid	H303,H315,H319,H320,H335,H402,H412	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Bag
Methyltrichlorosilane		75-79-6	CH3Cl3Si	Solid	H225,H302,H312,H314,H315,H318,H319,H331,H335	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	g	Other
Methyltrichlorosilane		75-79-6	CH3Cl3Si	Solid	H225,H302,H312,H314,H315,H318,H319,H331,H335	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	g	Other
Potassium sulfate		7778-80-5	K2O4S	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	g	Plastic Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	g	Plastic Bottle
Sodium hydroxide 10N aqueous solution		1310-73-2	HNaO	Liquid	H314,H314,H314	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Plastic Bottle
Sodium carboxymethyl cellulose		9004-32-4	(C2H4O3)x . (Na)x	Solid	H313,H402	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	g	Plastic Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	4	4	L	Glass Bottle
Polyethylene glycol (solid)		25322-68-3	C2nH4n+2On+1	Solid	H316,H320	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	kg	Glass Bottle
Magnesium chloride hexahydrate		7791-18-6	Cl2Mg · 6H2O	Solid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	g	Plastic Bottle
Polyvinylpyrrolidone		9003-39-8	C6H9NO	Solid	H315,H319,H335	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	g	Plastic Bottle
Manganese(II) sulfate monohydrate		10034-96-5	H2MnO5S	Solid	H373,H401,H411	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	g	Plastic Bottle
Potassium carbonate sesquihydrate		6381-79-9	CK2O3*1.5H2O	Solid	H335,H315,H319,H302	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	g	Glass Bottle
TWEEN 20		9005-64-5	(C26H50O10)n	Liquid	H316	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Plastic Bottle
Triethylamine		121-44-8	C6H15N	Liquid	H225,H302,H311,H312,H314,H314,H314,H3	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Glass Bottle
Ludox sm-30 colloidal silica		7631-86-9		Liquid	H372	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Plastic Bottle
Manganese(II) chloride tetrahydrate		13446-34-9	Cl2Mn · 4H2O	Solid	H301,H302,H402,H412	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	g	Plastic Bottle
Triton X-100		9002-93-1	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mL	Plastic Bottle
Phosphate buffered saline solution		7732-18-5, 7647-14-5, 7601-54-9		Liquid	H303,H316,H319	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	mL	Plastic Bottle
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H3	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	25	25	g	Plastic Bottle

Molecular Probes Tali Apoptosis Kit - Annexin V Alexa Fluor 488 & Propidium Iodide				Liquid		Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	µL	Bag
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	First Floor	104A	228	228	ft3	Cylinder
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	First Floor	104A	228	228	ft3	Cylinder
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	4	4	L	Glass Bottle
Argon (gas)	Argon high purity, 332 ft3, 35 lb	7440-37-1	Ar	Gas	H280	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	336	336	ft3	Cylinder
Potassium hydroxide		1310-58-3	HKO	Solid	H290,H302,H314,H318,H402	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	L	Plastic Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	4	4	L	Glass Bottle
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	First Floor	104A	228	228	ft3	Cylinder
Valinomycin	Valinomycin >=98.0% (TLC)	2001-95-8	C54H90N6O18	Solid	H300,H310	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	1	1	mg	Plastic Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	4	4	L	Glass Bottle
Chloroform	Chloroform	67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	mL	Glass Bottle
Chloroform	Chloroform	67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	mL	Glass Bottle
Chloroform	Chloroform	67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	500	500	mL	Glass Bottle
N,N-Dimethylformamide		68-12-2	C3H7NO	Liquid	H226,H303,H312,H316,H319,H332,H360,H360	Subramaniam SE2 Biological Materials Research Group	Science & Engineering 2	Basement	080	100	100	mL	Glass Bottle

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Sublocation	Size	Amount	Units	Container Type	Concentration	Concentration Units	Solvent
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	L	Glass Bottle			
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	100	100	mL	Glass Bottle			
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	100	100	mL	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
1-Methoxy-2-propyl acetate		108-65-6	C6H12O3	Liquid	H226,H313	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Plastic Bottle			
1-Methoxy-2-propyl acetate		108-65-6	C6H12O3	Liquid	H226,H313	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Plastic Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	oz	Can			
Cobalt(II) acetate		71-48-7	C4H6CoO4	Solid	H302,H317,H319,H334,H341,H350,H360,H400,H410	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	20	20	g	Plastic Bottle			
DL-Glyceraldehyde		56-82-6	C3H6O3	Solid		SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	250	250	mg	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	4	4	L	Can			
Isopropanol	2-Propanol (Certified), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	4	4	L	Can			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
Isopropanol	2-Propanol (HPLC), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	L	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	oz	Can			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	100	100	mL	Glass Bottle			
Isopropanol	2-Propanol (Certified), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	4	4	L	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	50	50	lb	Cylinder			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	50	50	lb	Cylinder			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	L	Glass Bottle			
Isopropanol	2-Propanol (Certified), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	210	210	ft3	Cylinder			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
1,1,1,3,3,3-Hexafluoro-2-propanol		920-66-1	C3H2F6O	Liquid	H290,H302,H314,H318,H332,H361	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	100	100	mL	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	oz	Can			
Negative photoresist I		110-49-6, 9003-31-0, 95-47-6		Liquid	H332,H312,H360,H226,H304,H402,H319,H315,H412,H335	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	500	500	mL	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Can			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Can			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	oz	Can			
Negative photoresist I		110-49-6, 9003-31-0, 95-47-6		Liquid	H332,H312,H360,H226,H304,H402,H319,H315,H412,H335	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	500	500	mL	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	oz	Can			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Glass Bottle			
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	kg	Plastic Bottle			
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder			
PLGA nanoparticles 100 nm average dia				Solid		SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	5	5	g	Steel Drum			
Negative photoresist I		110-49-6, 9003-31-0, 95-47-6		Liquid	H332,H312,H360,H226,H304,H402,H319,H315,H412,H335	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	500	500	mL	Plastic Bottle			
Hydrochloric acid, 17-25% solution in w		7647-01-0	HCl	Liquid	H290	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	L	Glass Bottle	0.5	N	Water
Negative photoresist I		110-49-6, 9003-31-0, 95-47-6		Liquid	H332,H312,H360,H226,H304,H402,H319,H315,H412,H335	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	500	500	mL	Plastic Bottle			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Can			
Vicryl		26780-50-7	C10H12O8	Solid		SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	5	5	g	Glass Bottle			
Vectabond Reagent		919-30-2		Liquid	H227,H302,H314,H318,H317	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	7	7	mL	Glass Bottle			
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	4	4	oz	Can			
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder			
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	3.8	3.8	L	Can			
Argon (gas)		7440-37-1	Ar	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	335	335	ft3	Cylinder			
1-Methoxy-2-propyl acetate		108-65-6	C6H12O3	Liquid	H226,H313	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Plastic Bottle			
Xylenes		1330-20-7	C8H10	Liquid	H226,H303,H304,H312,H315,H332,H335,H373,H401	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	gal	Plastic Bottle			
Xylenes		1330-20-7	C8H10	Liquid	H226,H303,H304,H312,H315,H332,H335,H373,H401	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	gal	Plastic Bottle			
Toluene		108-88-3	C7H8	Liquid	H225,H304,H315,H336,H361,H373,H401	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	500	500	mL	Glass Bottle			
Xylenes		1330-20-7	C8H10	Liquid	H226,H303,H304,H312,H315,H332,H335,H373,H401	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	gal	Plastic Bottle			
Xylenes		1330-20-7	C8H10	Liquid	H226,H303,H304,H312,H315,H332,H335,H373,H401	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	gal	Plastic Bottle			
Formalin solution, neutral buffered, 10%		67-56-1, 50-00-0, 7732-18-5, 10049-21-5, 7558-79-4		Liquid	H318,H370,H341,H302,H317,H227,H315,H350	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	gal	Plastic Bottle			
Eosin Y, alcoholic solution		67-56-1, 17372-87-1, 64-17-5		Liquid	H333,H302,H319,H225,H370,H313	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	pint	Plastic Bottle			
Eosin Y, alcoholic solution		67-56-1, 17372-87-1, 64-17-5		Liquid	H333,H302,H319,H225,H370,H313	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	pint	Plastic Bottle			
Eosin Y, alcoholic solution		67-56-1, 17372-87-1, 64-17-5		Liquid	H333,H302,H319,H225,H370,H313	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	pint	Plastic Bottle			
Eosin Y, alcoholic solution		67-56-1, 17372-87-1, 64-17-5		Liquid	H333,H302,H319,H225,H370,H313	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	pint	Plastic Bottle			
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder			
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle			
Microposit MF-319 Developer		7732-18-5, 75-59-2,		Liquid		SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	gal	Plastic Bottle			
Microposit Positive Photoresist		108-65-6, , , , 1319-77-3		Liquid	H335	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	L	Glass Bottle			
Microposit MF-319 Developer		7732-18-5, 75-59-2,		Liquid		SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	gal	Plastic Bottle			
Microposit MF-319 Developer		7732-18-5, 75-59-2,		Liquid		SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	gal	Plastic Bottle			
Microposit MF-319 Developer		7732-18-5, 75-59-2,		Liquid		SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	gal	Plastic Bottle			
Phenolic Resin Solution				Liquid		SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	L	Plastic Bottle			

SU-8 Developer		108-65-6, 70657-70-4		Liquid	H226,H360	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	4	4	L	Plastic Bottle		
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	50	50	lb	Cylinder		
Ethanol, specially denatured		64-17-5	C2H6O	Liquid	H225,H319	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	1	1	gal	Plastic Bottle		
Ethanol, 200 proof	ETHANOL 200 PROOF, USP	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	gal	Plastic Bottle		
Ethanol, 200 proof	ETHANOL 200 PROOF, USP	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	1	1	gal	Plastic Bottle		
Periodic acid		10450-60-9	H5IO6	Solid	H271,H272,H314,H318,H400,H410	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	50	50	g	Glass Bottle		
Nitrogen (gas)		7727-37-9	N2	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	304	304	ft3	Cylinder		
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder		
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	228	228	ft3	Cylinder		
Argon (gas)		7440-37-1	Ar	Gas	H280	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	83	83	ft3	Cylinder		
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle		
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Glass Bottle		
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	1	144A	Not in Specific Location	50	50	lb	Cylinder		
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	1	144A	Not in Specific Location	50	50	lb	Cylinder		
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder		
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder		
1-Methoxy-2-propyl acetate		108-65-6	C6H12O3	Liquid	H226,H313	SCIF	Science and Engineering Building	First Floor	153	Not in Specific Location	4	4	L	Plastic Bottle		
Trifluoroacetic acid		76-05-1	C2HF3O2	Liquid	H314,H318,H332,H402,H412	SCIF	Science and Engineering Building	First Floor	154	Not in Specific Location	100	100	mL	Glass Bottle		
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	1	144A	Not in Specific Location	50	50	lb	Cylinder		
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	1	144A	Not in Specific Location	50	50	lb	Cylinder		
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	SCIF	Science and Engineering Building	1	144A	Not in Specific Location	50	50	lb	Cylinder		
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	228	228	ft3	Cylinder		
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	228	228	ft3	Cylinder		
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	228	228	ft3	Cylinder		
Nitrogen (gas)	Nitrogen Ultra High Purity 5.0 Grade Size 300 Cylinder, CGA-580	7727-37-9	N2	Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	228	228	ft3	Cylinder		
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder		
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder		
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder		
Air, compressed		132259-10-0		Gas	H280	SCIF	Science and Engineering Building	First Floor	144A	Not in Specific Location	232	232	ft3	Cylinder		

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Nur	Size	Amount	Units	Container Type	Concentration
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Grasis Immunoviromics Lab	Science & Engineering 2		340	1	1	L	Glass Bottle	
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	100	100	mL	Glass Bottle	
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethidium bromide		1239-45-8	C21H20BrN3	Solid	H302,H330,H341	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	1	1	g	Glass Bottle	
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	L	Glass Bottle	
Hydrochloric acid, 1M solution in water		7647-01-0		Liquid	H290,H315,H319,H335	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	1	1	L	Plastic Bottle	
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Reagent alcohol, ≥70%		64-17-5	C2H6O	Liquid	H225,H302,H319,H370	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	1	1	gal	Plastic Bottle	
Phenol, liquefied with water, unstabilized		108-95-2	C6H6O	Liquid	H227,H301,H311,H314,H318,H331,H341,H3	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
3-Methylbutanol		123-51-3	C5H12O	Liquid	H226,H313,H315,H319,H332,H335	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
N,N-Dimethyl-p-phenylenediamine		99-98-9	C8H12N2	Solid	H300,H310,H331,H301 + H311	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5	5	g	Glass Bottle	
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H3	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Plastic Bottle	
Ethyl acetate		141-78-6	C4H8O2	Liquid	H225,H319,H333,H336	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Methanol	Methanol for HPLC, ≥99.9%	67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	1	1	L	Glass Bottle	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	
Reagent Alcohol ACS		64-17-5, 67-63-0, 67-56-1		Liquid	H225,H370,H302 + H312 + H332,H319	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	4	4	L	Plastic Bottle	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	
Permount	Permount Mounting Medium	68240-09-5, 108-88-3		Liquid	H304,H319,H336,H361,H373,H225,H315	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	100	100	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Reagent Alcohol ACS		64-17-5, 67-63-0, 67-56-1		Liquid	H225,H370,H302 + H312 + H332,H319	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	4	4	L	Plastic Bottle	
Reagent Alcohol ACS		64-17-5, 67-63-0, 67-56-1		Liquid	H225,H370,H302 + H312 + H332,H319	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	4	4	L	Plastic Bottle	
Reagent Alcohol ACS		64-17-5, 67-63-0, 67-56-1		Liquid	H225,H370,H302 + H312 + H332,H319	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	4	4	L	Plastic Bottle	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	
Ammonium sulfate		7783-20-2	H8N2O4S	Solid	H303,H316,H320,H402,H412	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	g	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Glass Bottle	
Hydrochloric acid solution, 5N in water	5N HYDROCHLORIC ACID (NF)	7647-01-0	HCl	Liquid	H290,H314,H315,H318,H319,H335	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	1	1	L	Glass Bottle	
Calcium phosphate monobasic	Calcium phosphate monobasic >=95%	7758-23-8	CaH4O8P2	Solid	H313,H318	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	g	Plastic Bottle	
Iron(II) sulfate hydrate		13463-43-9	FeO4S · xH2O	Solid	H410,H400,H302,H315,H319	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	g	Plastic Bottle	
Zinc Sulfate, Certified, 1.00M +/-0.01M (2.0N), LabChem		7446-20-0	Zn(NO3)2·6H2O	Liquid		Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Plastic Bottle	
Sodium nitrate Solution	Sodium Nitrate Solutions	7631-99-4	NNaO3	Liquid		Grasis Immunoviromics Lab	Science & Engineering 2	3	340	500	500	mL	Plastic Bottle	
Cadmium chloride	Cadmium Chloride Anhydrous (White Granular Powder/Certified ACS), Fisher Chemical	10108-64-2	CdCl2	Solid	H301,H330,H330,H340,H340,H350,H350,H360,H360,H372,H400,H410	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	100	100	g	Glass Bottle	
Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	

Butane	Replacement Butane Cylinders	106-97-8	C4H10	Gas	H220,H280	Grasis Immunoviromics Lab	Science & Engineering 2	3	340	5.5	5.5	oz	Cylinder	

Chemical Name	Substance	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Nur	Size	Amount	Units	Container Type
Zinc sulfate heptahydrate		7446-20-0	H14O11SZn	Solid	H302,H318,H400,H410	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	250	250	g	Plastic Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	2.5	2.5	L	Glass Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	500	500	g	Plastic Bottle
Ethidium bromide, 1% aqueous solution		1239-45-8, 7732-18-5	C21H20BrN3	Liquid	H331,H341	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	10	10	mL	Glass Bottle
Tryptone		91079-40-2		Solid		Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	2	2	kg	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361, H370,H371,H301 + H311 + H331,H336	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	5	5	gal	Plastic Bottle
Chloroform-phenol reagent		127-08-2, 67-66-3, 64-19-7, 123-51-3, 64-17-5, 7732-18-5, 108-95-2, 148-24-3		Liquid	H318,H333,H302,H373,H226,H361d, H341,H372,H412,H314,H351	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	400	400	mL	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	1	1	gal	Plastic Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Hernday Lab, SE1 suite 353	Science & Engineering 2	First Floor	104	50	50	lb	Cylinder
Ethidium bromide, 1% aqueous solution		1239-45-8, 7732-18-5	C21H20BrN3	Liquid	H331,H341	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	10	10	mL	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361, H370,H371,H301 + H311 + H331,H336	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	5	5	gal	Plastic Bottle
Molecular Grade Ethidium Bromide Solution				Liquid		Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	10	10	mL	Plastic Bottle
Ethanol, Tax-Free		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	1	1	gal	Plastic Bottle
Ethanol, Tax-Free		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	1	1	gal	Plastic Bottle
Ethanol, Tax-Free		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	1	1	gal	Plastic Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Hernday Lab, SE1 suite 353	Science and Engineering Building	Third Floor	353	500	500	g	Plastic Bottle
2-Mercaptoethanol		60-24-2	C2H6OS	Liquid	H227,H301,H310,H310,H315,H317, H317,H317,H318,H331,H335,H373, H400,H410	Hernday Lab, SE1 suite 353	Science & Engineering 2	First Floor	104	100	100	g	Glass Bottle

Hernday, A
BSP 4th Floor

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	gal	Plastic Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	gal	Plastic Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	gal	Plastic Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	gal	Plastic Bottle
Isopropanol	2-Propanol (USP), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Glass Bottle
Isopropanol	2-Propanol (USP), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Glass Bottle
Isopropanol	2-Propanol (USP), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Glass Bottle
Paraformaldehyde, 4% in PBS		7732-18-5, 30525-89-4, 7647-14-5, 7558-79-4, 7778-77-0, 7447-40-7		Liquid	H315,H317,H318,H351,H302 + H312 + H332,H319,H335,H341,H350	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
2-Mercaptoethanol		60-24-2	C2H6OS	Liquid	H227,H301,H310,H310,H315,H317,H317,H317,H318,H331,H335,H373,H400,H410	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mL	Glass Bottle
Acrylamide/Bis-acrylamide, 30% so		7732-18-5, 110-26-9, 79-06-1		Liquid	H302,H313,H315,H317,H319,H332,H340,H350,H361,H372,H402	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
10% Buffered Formalin Phosphate		7732-18-55, 50-00-0, 67-56-1, 7558-79-4, 10049-21-5		Liquid	H227,H315,H318,H317,H341,H350,H370	Hoyer Lab	Science and Engineering Building	Third Floor	353	20	20	L	Plastic Bottle
2-Mercaptoethanol		60-24-2	C2H6OS	Liquid	H227,H301,H310,H310,H315,H317,H317,H317,H318,H331,H335,H373,H400,H410	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mL	Glass Bottle
5(6)-Carboxyfluorescein diacetate		150347-59-4	C29H19NO11	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mg	Glass Bottle
Isopropanol	2-Propanol (USP), Fisher Chemical	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Glass Bottle
5-Fluorouracil		51-21-8	C4H3FN2O2	Solid	H301,H402,H412	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	g	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Agarose		9012-36-6		Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Glass Bottle
Brefeldin A		20350-15-6	C16H24O4	Solid	H301	Hoyer Lab	Science and Engineering Building	Third Floor	353	5	5	mg	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle
Agarose	Agarose LE, ACROS Organics	9012-36-6		Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Carbenicillin disodium salt		4800-94-6	C17H16N2Na2O6S	Solid	H317,H334	Hoyer Lab	Science and Engineering Building	Third Floor	353	10	10	g	Plastic Bottle
Agarose		9012-36-6		Liquid		Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Ammonium persulfate		7727-54-0	H8N2O8S2	Solid	H272,H301,H302,H312,H313,H315,H317	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Glass Bottle
Ciprofloxacin		85721-33-1	C17H18FN3O3	Solid	H303	Hoyer Lab	Science and Engineering Building	Third Floor	353	5	5	g	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle
EDTA	ETHYLENEDIAMINETETRAACETIC ACID	60-00-4	C10H16N2O8	Solid	H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Ammonium chloride		12125-02-9	ClH4N	Solid	H302,H319,H401,H411	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Biotin		58-85-5	C10H16N2O3S	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mg	Plastic Bottle
EGTA		67-42-5	C14H24N2O10	Solid	H303	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Glass Bottle
Ammonium sulfate		7783-20-2	H8N2O4S	Solid	H303,H316,H320,H402,H412	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	kg	Plastic Bottle
Dextran sulfate sodium salt		9011-18-1	C12H22O25S5	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	10	10	g	Glass Bottle
EDTA	ETHYLENEDIAMINETETRAACETIC ACID	60-00-4	C10H16N2O8	Solid	H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Hoyer Lab	Science and Engineering Building	First Floor	144A	50	50	lb	Cylinder
Glycogen	D-Glycogen	9005-79-2	C24H42O21	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	mg	Plastic Bottle
Calcium phosphate monobasic		7758-23-8	CaH4O8P2	Solid	H313,H318	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle
Agarose, low gelling temperature		39346-81-1		Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	g	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle

Dextran sulfate sodium salt		9011-18-1	C12H22O25S5	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	10	10	g	Glass Bottle
Agarose	Agarose LE, ACROS Organics	9012-36-6		Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Hoyer Lab	Science and Engineering Building	Third Floor	353	50	50	lb	Cylinder
Citric acid		77-92-9	C6H8O7	Solid	H313,H315,H316,H318,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	50	50	mg	Plastic Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Plastic Bottle
Ethidium bromide		1239-45-8	C21H20BrN3	Solid	H302,H330,H341	Hoyer Lab	Science and Engineering Building	Third Floor	353	10	10	mL	Glass Bottle
Calcium phosphate dibasic		7757-93-9	CaHO4P	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle
Deoxyribonucleic acid sodium salt		438545-06-3		Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	2	2	mg	Glass Bottle
Bromophenol Blue		115-39-9	C19H10Br4O5S	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	g	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle
Dimethyl sulfoxide	DMSO	67-68-5	C2H6OS	Liquid	H227,H320,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	L	Glass Bottle
EDTA		60-00-4	C10H16N2O8	Solid	H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Biotin		58-85-5	C10H16N2O3S	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mg	Plastic Bottle
Bovine serum albumin		9048-46-8		Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Glass Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle
Bleach		7681-52-9	NaOCl	Liquid	H290,H314,H318,H335,H400	Hoyer Lab	Science and Engineering Building	Third Floor	353	1.89	1.89	L	Plastic Bottle
Coomassie® brilliant blue G solutic		7664-38-2, 6104-58-1, 64-17-5		Liquid	H290,H314,H318	Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	g	Glass Bottle
DL-Dithiothreitol		3483-12-3	C4H10O2S2	Solid	H302,H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Plastic Bottle
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	L	Glass Bottle
Glycine		56-40-6	C2H5NO2	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	kg	Plastic Bottle
Isopropanol	Isopropanol, Molecular Biology Grade, Fisher BioReagents	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Ionomycin		56092-81-0	C41H72O9	Solid	H302	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	mg	Glass Bottle
LB Agar		8013-01-2, 9002-18-0, 7732-18-5, 7647-14-5,		Solid	H303	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
MTT		298-93-1	C18H16BrN5S	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	g	Glass Bottle
Isopropanol	Isopropanol, Molecular Biology Grade, Fisher BioReagents	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Isopropanol	Isopropanol, Molecular Biology Grade, Fisher BioReagents	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Hexadimethrine bromide		28728-55-4	(C13H30Br2N2)n	Solid	H302	Hoyer Lab	Science and Engineering Building	Third Floor	353	5	5	g	Glass Bottle
Isopropanol	Isopropanol, Molecular Biology Grade, Fisher BioReagents	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Mitomycin c		50-07-7	C15H18N4O5	Solid	H300,H351	Hoyer Lab	Science and Engineering Building	Third Floor	353	10	10	mg	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
MOPS		1132-61-2	C7H15NO4S	Solid	H303,H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Plastic Bottle
Hoechst 33258		23491-45-4	C25H24N6O · 3HCl	Solid	H319,H302,H315	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mg	Glass Bottle
Hydrochloric acid, concentrated (~		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Hydrochloric acid, concentrated (~		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Iodoacetamide		144-48-9	C2H4INO	Solid	H301,H317,H334	Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	g	Glass Bottle
Glycine		56-40-6	C2H5NO2	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	kg	Plastic Bottle
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
MTT		298-93-1	C18H16BrN5S	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	g	Glass Bottle
HEPES sodium salt		75277-39-3	C8H17N2NaO4S	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	g	Glass Bottle
Hydrochloric acid, concentrated (~		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle

Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
HEPES		7365-45-9	C8H18N2O4S	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	g	Plastic Bottle
Isopropanol	Isopropanol, Molecular Biology Grade, Fisher BioReagents	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Phenylmethylsulfonyl fluoride		329-98-6	C7H7FO2S	Solid	H301,H314,H314,H314,H318	Hoyer Lab	Science and Engineering Building	Third Floor	353	10	10	g	Plastic Bottle
Formaldehyde, 37 wt.% solution in		50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H351,H402	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Hexadimethrine bromide		28728-55-4	(C13H30Br2N2)n	Solid	H302	Hoyer Lab	Science and Engineering Building	Third Floor	353	5	5	g	Glass Bottle
Isopropanol	Isopropanol, Molecular Biology Grade, Fisher BioReagents	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Hexadimethrine bromide		28728-55-4	(C13H30Br2N2)n	Solid	H302	Hoyer Lab	Science and Engineering Building	Third Floor	353	5	5	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Glass Bottle
Ethanol, 200 proof	Ethyl alcohol, pure 200 proof, for molecular biology	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Hexadimethrine bromide		28728-55-4	(C13H30Br2N2)n	Solid	H302	Hoyer Lab	Science and Engineering Building	Third Floor	353	9	9	g	Glass Bottle
POLYETHYLENE GLYCOL 1500 (PEG				Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	260	260	g	Glass Bottle
Sodium acetate		127-09-3	C2H3NaO2	Solid	H303,H316,H320,H333	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	kg	Glass Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Plastic Bottle
Triton X-100		9002-93-1	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mL	Plastic Bottle
SYBRSafe DNA gel stain		67-68-5,		Liquid	H227	Hoyer Lab	Science and Engineering Building	Third Floor	353	0.4	0.4	mL	Plastic Bottle
Urea		57-13-6	CH4N2O	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Sodium fluoride		7681-49-4	FNa	Solid	H300,H300,H301,H315,H319,H402	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Glass Bottle
SYBRSafe DNA gel stain		67-68-5,		Liquid	H227	Hoyer Lab	Science and Engineering Building	Third Floor	353	0.4	0.4	mL	Plastic Bottle
Triton X-100		9002-93-1	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Triton X-114		9036-19-5	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	L	Plastic Bottle
Sodium carbonate monohydrate		5968-11-6	CH2Na2O4	Solid	H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Tetracycline hydrochloride		64-75-5	C22H24N2O8 · HCl	Solid	H315,H319,H335,H361,H411	Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	g	Plastic Bottle
Potassium chloride		7447-40-7	ClK	Solid	H303	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	kg	Plastic Bottle
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H412	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Triethanolamine		102-71-6	C6H15NO3	Liquid	H315,H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	mL	Glass Bottle
Tris base		77-86-1	C4H11NO3	Solid	H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	5	5	kg	Plastic Bottle
Tris(2-carboxyethyl)phosphine hyc		51805-45-9	C9H16ClO6P	Solid	H303,H313,H314,H318	Hoyer Lab	Science and Engineering Building	Third Floor	353	2	2	g	Glass Bottle
Globulin, γ-		9007-83-4		Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	g	Glass Bottle
Tris base		77-86-1	C4H11NO3	Solid	H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	5	5	kg	Plastic Bottle
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H412	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
SYBRSafe DNA gel stain		67-68-5,		Liquid	H227	Hoyer Lab	Science and Engineering Building	Third Floor	353	0.4	0.4	mL	Plastic Bottle
N,N,N',N'-Tetramethylethylenedia		110-18-9	C6H16N2	Liquid	H225,H301,H302,H314,H314,H314,H318,H331,H332	Hoyer Lab	Science and Engineering Building	Third Floor	353	25	25	mL	Glass Bottle
Potassium bicarbonate		298-14-6	CHKO3	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Potassium phosphate dibasic		7758-11-4	HK2O4P	Solid	H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Glass Bottle
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Tannic acid		1401-55-4	C76H52O46	Solid	H303,H402,H412	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Plastic Bottle
Sodium carbonate		497-19-8	CNa2O3	Solid	H303,H316,H319	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Sodium chloride		7647-14-5	ClNa	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	kg	Glass Bottle
Triton X-100		9002-93-1	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Saponin	Saponin From Quillaja Bark	8047-15-2	C55H86O24	Solid	H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Plastic Bottle
Sodium phosphate dibasic heptah		7782-85-6	H15Na2O11P	Solid	H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Plastic Bottle
Sucrose		57-50-1	C12H22O11	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	kg	Plastic Bottle
Tris hydrochloride		1185-53-1	C4H12ClNO3	Solid	H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	kg	Glass Bottle
Trypan Blue, 0.4% saline solution		72-57-1	C34H24N6Na4O14S4	Liquid	H350,H351	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mL	Plastic Bottle
Potassium phosphate dibasic trihy		16788-57-1	H7K2O7P	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle

Tricine		5704-04-1	C6H13NO5	Solid		Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	g	Glass Bottle
Phorbol 12-myristate 13-acetate		16561-29-8	C36H56O8	Solid	H315	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	mg	Glass Bottle
Sodium bicarbonate		144-55-8	CHNaO3	Solid	H303	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Sodium phosphate monobasic mo		10049-21-5	H4NaO5P	Solid	H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	g	Glass Bottle
Tris base		77-86-1	C4H11NO3	Solid	H315,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	5	5	kg	Plastic Bottle
Tris(2-carboxyethyl)phosphine hyc		51805-45-9	C9H16ClO6P	Solid	H303,H313,H314,H318	Hoyer Lab	Science and Engineering Building	Third Floor	353	2	2	g	Glass Bottle
TWEEN 20		9005-64-5	(C26H50O10)n	Liquid	H316	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mL	Glass Bottle
Sulfuric acid		7664-93-9	H2O4S	Liquid	H318,H290,H303,H314,H350,H330	Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	L	Plastic Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Hoyer Lab	Science and Engineering Building	First Floor	144A	50	50	lb	Cylinder
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Hoyer Lab	Science and Engineering Building	First Floor	144A	50	50	lb	Cylinder
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Plastic Bottle
2.0N sulfuric acid		7664-93-9	H2SO4	Liquid		Hoyer Lab	Science and Engineering Building	Third Floor	353	1	1	L	Plastic Bottle
TWEEN 20		9005-64-5	(C26H50O10)n	Liquid	H316	Hoyer Lab	Science and Engineering Building	Third Floor	353	100	100	mL	Glass Bottle
Hydrochloric acid, 6 N solution	Hydrochloric acid, 6 N solution	7647-01-0	HCl	Liquid	H290,H314,H315,H318,H319,H335	Hoyer Lab	Science and Engineering Building	Third Floor	353	500	500	mL	Glass Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Hoyer Lab	Science and Engineering Building	First Floor	144A	50	50	lb	Cylinder
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Hoyer Lab	Science and Engineering Building	First Floor	144A	50	50	lb	Cylinder
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Hoyer Lab	Science and Engineering Building	Third Floor	353	4	4	L	Plastic Bottle

Chemical Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type	Concentration	Concentration Units	Solvent
Sodium azide	26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Jensen Lab	Science & Engineering 2	Third Floor	340	100	100	g	Glass Bottle			
Phosphoric acid, >=85% aqueous solution	7664-38-2	H3O4P	Liquid	H290,H313,H314,H318	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Protamine sulfate salt	53597-25-4		Solid		Jensen Lab	Science & Engineering 2	Third Floor	340	10	10	g	Glass Bottle			
Sodium nitrite	7632-00-0	NNaO2	Solid	H272,H272,H272,H272,H301,H319,H400	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	g	Glass Bottle			
Sulfuric acid	7664-93-9	H2O4S	Liquid	H318,H290,H303,H314,H350,H330	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Plastic Bottle			
Acetic acid, glacial	64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Jensen Lab	Science & Engineering 2	Third Floor	340	2.5	2.5	L	Glass Bottle			
Sodium hydroxide solution	1310-73-2	NaOH	Liquid	H402,H314,H318	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	L	Plastic Bottle	10	N	Water
Nitrogen (Liquid)	7727-37-9	N2	Liquid	H280,H281	Jensen Lab	Science & Engineering 2		020	240	240	L	Cryogenic Dewar			
Acetone	67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	L	Plastic Bottle			
Protamine sulfate salt	53597-25-4		Solid		Jensen Lab	Science & Engineering 2	Third Floor	340	10	10	g	Glass Bottle			
Sodium dodecyl sulfate	151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H412	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	lb	Plastic Bottle			
Isopropanol	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	L	Plastic Bottle			
Potassium hydroxide	1310-58-3	HKO	Solid	H290,H302,H314,H318,H402	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	g	Plastic Bottle			
Sulfuric acid	7664-93-9	H2O4S	Liquid	H318,H290,H303,H314,H350,H330	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Plastic Bottle			
Hydrofluoric acid solution, 48-51 wt % in water	7664-39-3	HF	Liquid	H300,H310,H314,H318,H330	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Hydrochloric acid	7647-01-0	ClH	Liquid		Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Plastic Bottle			
Hydrochloric acid	7647-01-0	ClH	Liquid		Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Plastic Bottle			
Nitrogen (Liquid)	7727-37-9	N2	Liquid	H280,H281	Jensen Lab	Science & Engineering 2	Third Floor	340	240	240	L	Cryogenic Dewar			
Nitrogen (Liquid)	7727-37-9	N2	Liquid	H280,H281	Jensen Lab	Science & Engineering 2	Third Floor	340	240	240	L	Cryogenic Dewar			
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Glycine hydrochloride	6000-43-7	C2H6ClNO2	Solid	H303	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	g	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Methanol	67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Jensen Lab	Science & Engineering 2	Third Floor	340	4	4	L	Plastic Bottle			
Isopropanol	67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	L	Plastic Bottle			
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Ethanol, 200 proof	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Jensen Lab	Science & Engineering 2	Third Floor	340	500	500	mL	Glass Bottle			
Carbon dioxide, gas	124-38-9	CO2	Gas	H280	Jensen Lab	Science & Engineering 2	3 - Third Floor	340H	50	50	lb	Cylinder			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Carbon dioxide, gas	124-38-9	CO2	Gas	H280	Jensen Lab	Science & Engineering 2	3 - Third Floor	340H	50	50	lb	Cylinder			
Carbon dioxide, gas	124-38-9	CO2	Gas	H280	Jensen Lab	Science & Engineering 2	3 - Third Floor	340H	50	50	lb	Cylinder			
Carbon dioxide, gas	124-38-9	CO2	Gas	H280	Jensen Lab	Science & Engineering 2	3 - Third Floor	340H	50	50	lb	Cylinder			
Carbon dioxide, gas	124-38-9	CO2	Gas	H280	Jensen Lab	Science & Engineering 2	3 - Third Floor	340H	50	50	lb	Cylinder			
Carbon dioxide, gas	124-38-9	CO2	Gas	H280	Jensen Lab	Science & Engineering 2	3 - Third Floor	340H	50	50	lb	Cylinder			
Carbon dioxide, gas	124-38-9	CO2	Gas	H280	Jensen Lab	Science & Engineering 2	3 - Third Floor	340H	50	50	lb	Cylinder			

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Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			
Ethanol, 190 Proof	64-17-5	C2H6O	Liquid	H225,H319	Jensen Lab	Science & Engineering 2	Third Floor	340	1	1	gal	Plastic Bottle			

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Nur	Size	Amount	Units	Container Type
3-Isobutyl-1-methylxanthine		28822-58-4	C10H14N4O2	Solid	H302	Manilay Lab	Science and Engineering Building	Third Floor	325	250	250	mg	Plastic Bottle
Agarose		9012-36-6		Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Agarose		9012-36-6		Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Disodium beta-glycerophosphate hydrate	Glycerol 2-phosphate disodium salt hydrate	819-83-0	C3H9Na2O7P	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Plastic Bottle
Guanidine hydrochloride		50-01-1	CH6ClN3	Solid	H302,H315,H319,H332	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Glass Bottle
Insulin		11061-68-0	C257H383N65O77S6	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	mg	Glass Bottle
Nicotinamide		98-92-0	C6H6N2O	Solid	H303,H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Glass Bottle
Sodium thiosulfate pentahydrate		10102-17-7	H10Na2O8S2	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Ethanol, 100-189 proof in water	Ethanol 70% in Water (v/v)	64-17-5	C2H6O	Liquid	H225,H319	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Manilay Lab	Science and Engineering Building	Third Floor	325	50	50	lb	Cylinder
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Nitrogen (Liquid)		7727-37-9	N2	Liquid	H280,H281	Manilay Lab	Science and Engineering Building	Third Floor	325	240	240	L	Cryogenic Dewar
Poloxamer (liquid)		9003-11-6	C5H10O2	Liquid	H316,H320	Manilay Lab	Science and Engineering Building	Third Floor	325	250	250	g	Plastic Bottle
Sodium bicarbonate		144-55-8	CHNaO3	Solid	H303	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Ammonium hydroxide, 25-30% solution in water		1336-21-6		Liquid	H302,H314,H318,H400,H411	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	L	Glass Bottle
EDTA disodium salt dihydrate		6381-92-6	C10H14N2Na2O8 · 2H2O	Solid	H303,H332,H373	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	kg	Glass Bottle
1,4-Diaminobutane dihydrochloride	Putrescine dihydrochloride	333-93-7	C4H14Cl2N2	Solid	H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	g	Glass Bottle
1,4-Diaminobutane dihydrochloride	Putrescine dihydrochloride	333-93-7	C4H14Cl2N2	Solid	H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	g	Glass Bottle
Trypan Blue		72-57-1	C34H24N6Na4O14S4	Solid	H350	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	mL	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Eosin Y, alcoholic solution		67-56-1, 17372-87-1, 64-17-5		Liquid	H333,H302,H319,H225,H370,H313	Manilay Lab	Science and Engineering Building	Third Floor	325	250	250	g	Plastic Bottle
Gelatin	Gelatin, Type B, Powder, N.F., J.T.Baker	9000-70-8		Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Plastic Bottle
Ethanol, 100-189 proof in water	Ethanol 70% in Water (v/v)	64-17-5	C2H6O	Liquid	H225,H319	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
L-Proline		147-85-3	C5H9NO2	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Plastic Bottle
Nicotinamide		98-92-0	C6H6N2O	Solid	H303,H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Glass Bottle
Nicotinamide		98-92-0	C6H6N2O	Solid	H303,H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Glass Bottle
TWEEN 20		9005-64-5	(C26H50O10)n	Liquid	H316	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	mL	Glass Bottle
Alcian Blue 8GX		75881-23-1	C56H68Cl4CuN16S4	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	10	10	g	Glass Bottle
Ammonium acetate		631-61-8	C2H7NO2	Solid	H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Glass Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Manilay Lab	Science and Engineering Building	Third Floor	325	50	50	lb	Cylinder
Citric acid		77-92-9	C6H8O7	Solid	H313,H315,H316,H318,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Glass Bottle
Guanosine		118-00-3	C10H13N5O5	Solid	H301	Manilay Lab	Science and Engineering Building	Third Floor	325	10	10	g	Glass Bottle
Magnesium chloride hexahydrate		7791-18-6	Cl2Mg · 6H2O	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Magnesium sulfate heptahydrate		10034-99-8	H14MgO11S	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	250	250	g	Plastic Bottle
Sodium dodecyl sulfate		151-21-3	C12H25NaO4S	Solid	H228,H228,H302,H311,H315,H318,H319,H332,H335,H401,H412	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Glass Bottle
2-Mercaptoethanol		60-24-2	C2H6OS	Liquid	H227,H301,H310,H310,H315,H317,H317,H317,H318,H331,H335,H373,H400,H410	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	mL	Glass Bottle
Ammonium sulfate		7783-20-2	H8N2O4S	Solid	H303,H316,H320,H402,H412	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	kg	Glass Bottle
L-Ascorbic acid		50-81-7	C6H8O6	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	g	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Glass Bottle
Verapamil hydrochloride		152-11-4	C27H39ClN2O4	Solid	H331,H301,H311	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	g	Glass Bottle
Zinc chloride		7646-85-7	Cl2Zn	Solid	H302,H314,H318,H400,H410	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
ITS Liquid Media Supplement (100x) liquid, sterile-filtered, BioReagent, suitable for cell culture		, 7732-18-5, 10102-18-8, 144-55-8, 7365-45-9, 11070-73-8,		Liquid		Manilay Lab	Science and Engineering Building	Third Floor	325	5	5	mL	Plastic Bottle
Oil Red O solution 0.5% in isopropanol		67-63-0, 1320-06-5	C26H24N4O	Liquid	H225,H316,H336,H319	Manilay Lab	Science and Engineering Building	Third Floor	325	250	250	mL	Plastic Bottle
Saponin		8047-15-2	C55H86O24	Solid	H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	g	Glass Bottle
Ammonium chloride		12125-02-9	ClH4N	Solid	H302,H319,H401,H411	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Calcium acetate		62-54-4	C4H6CaO4	Solid	H303	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
D-(+)-Glucose	Dextrose	50-99-7	C6H12O6	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Glass Bottle
Glycogen		9005-79-2	C24H42O21	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	5	5	g	Glass Bottle
Oil Red O		1320-06-5	C26H24N4O	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	g	Glass Bottle

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BSP 4th Floor

Paraformaldehyde		30525-89-4	CH2O	Solid	H228,H302,H315,H317,H318,H332,H335,H351,H402	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
beta-Glycerophosphate disodium salt hydrate		154804-51-0	C3H7Na2O6P · xH2O	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	10	10	g	Plastic Bottle
Boric acid		10043-35-3	BH3O3	Solid	H303,H360,H360	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Glass Bottle
LB Agar, Miller		9000-71-9, 8013-01-2, 7647-14-5, 9002-18-0		Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Nicotinamide		98-92-0	C6H6N2O	Solid	H303,H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Glass Bottle
Poloxamer (liquid)		9003-11-6	C5H10O2	Liquid	H316,H320	Manilay Lab	Science and Engineering Building	Third Floor	325	250	250	g	Plastic Bottle
Sodium phosphate dibasic		7558-79-4	HNa2O4P	Solid	H316,H320	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Sucrose		57-50-1	C12H22O11	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	kg	Glass Bottle
Agar		9002-18-0	C14H24O9	Solid	H373	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
beta-Glycerophosphate disodium salt hydrate		154804-51-0	C3H7Na2O6P · xH2O	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	10	10	g	Plastic Bottle
Bromophenol Blue		115-39-9	C19H10Br4O5S	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	g	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	L	Glass Bottle
Hematoxylin	Hematoxylin hydrate, 80% (dry wt.), water <8%	517-28-2	C16H14O6	Solid	H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Glass Bottle
N,N,N',N'-Tetramethylethylenediamine		110-18-9	C6H16N2	Liquid	H225,H301,H302,H314,H314,H314,H318,H331,H332	Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	mL	Glass Bottle
Sodium azide		26628-22-8	N3Na	Solid	H300,H300,H310,H310,H373,H400,H410	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	kg	Fiber Drum
Ethanol, 100-189 proof in water	Ethanol 70% in Water (v/v)	64-17-5	C2H6O	Liquid	H225,H319	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
Ammonium aluminum sulfate dodecahydrate		7784-26-1	AlH28NO20S2	Solid	H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Sodium chloride		7647-14-5	ClNa	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Ethanol, 100-189 proof in water	Ethanol 70% in Water (v/v)	64-17-5	C2H6O	Liquid	H225,H319	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	L	Glass Bottle
Harris hematoxylin solution, modified		7784-26-1, 7732-18-5, 56-81-5, 64-17-5, 7681-55-2, 517-28-2, 99-76-3		Liquid	H226,H316	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
Sodium bicarbonate		144-55-8	CHNaO3	Solid	H303	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Alizarin Red S		130-22-3	C14H7NaO7S	Solid	H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	g	Glass Bottle
Calcium chloride dihydrate		10035-04-8	CaCl2 · 2H2O	Solid	H315,H319	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Manilay Lab	Science and Engineering Building	Third Floor	325	50	50	lb	Cylinder
Glycerol		56-81-5	C3H8O3	Liquid	H316,H319,H320	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	L	Glass Bottle
Hexadimethrine bromide		28728-55-4	(C13H30Br2N2)n	Solid	H302	Manilay Lab	Science and Engineering Building	Third Floor	325	10	10	g	Glass Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Sulfuric acid		7664-93-9	H2O4S	Liquid	H318,H290,H303,H314,H350,H330	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	L	Glass Bottle
Tolbutamide		64-77-7	C12H18N2O3S	Solid	H303	Manilay Lab	Science and Engineering Building	Third Floor	325	25	25	g	Glass Bottle
Alcian blue stain				Liquid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	mL	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Triton X-100		9002-93-1	C16H26O2	Liquid	H302,H316,H318,H319,H401,H411	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	mL	Glass Bottle
Alkaline Phosphatase Detection Kit, Fluorescence				Liquid	H320,H316	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	fluid oz	Box
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Magnesium sulfate heptahydrate		10034-99-8	H14MgO11S	Solid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	g	Plastic Bottle
Nicotinamide		98-92-0	C6H6N2O	Solid	H303,H315,H319,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	100	100	g	Glass Bottle
Oil Red O solution 0.5% in isopropanol		67-63-0, 1320-06-5	C26H24N4O	Liquid	H225,H316,H336,H319	Manilay Lab	Science and Engineering Building	Third Floor	325	250	250	mL	Plastic Bottle
Hydrochloric acid		7647-01-0	ClH	Liquid		Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	mL	Glass Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Tris Acetate-EDTA (TAE) buffer solution, 50X		64-19-7, 7732-18-5, 77-86-1, 6381-92-6		Liquid	H314,H318,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	mL	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Tris Acetate-EDTA (TAE) buffer solution, 50X		64-19-7, 7732-18-5, 77-86-1, 6381-92-6		Liquid	H314,H318,H335	Manilay Lab	Science and Engineering Building	Third Floor	325	500	500	mL	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle

Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	4	4	L	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle
Ethanol, denatured		64-17-5	C2H6O	Liquid	H225,H302,H313,H319,H333,H361,H370,H371,H301 + H311 + H331,H336	Manilay Lab	Science and Engineering Building	Third Floor	325	1	1	gal	Plastic Bottle

Chemical Name	Substance Name	CAS	Molecular Formula	Physical State	Hazard Codes	Inventory Name	Building	Floor	Room Number	Size	Amount	Units	Container Type
Sodium nitrite		7632-00-0	NNaO2	Solid	H272,H272,H272,H272,H301,H319,H400	Nobile Lab	Science and Engineering Building	Third Floor	301	100	100	g	Plastic Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Plastic Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Plastic Bottle
3-Methylbutanol		123-51-3	C5H12O	Liquid	H226,H313,H315,H319,H332,H335	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
1-Methyl-2-pyrrolidinone		872-50-4	C5H9NO	Liquid	H227,H303,H315,H319,H335,H360	Nobile Lab	Science and Engineering Building	Third Floor	301	2.5	2.5	L	Glass Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Nobile Lab	Science and Engineering Building	Third Floor	301	4	4	L	Glass Bottle
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	L	Glass Bottle
Acetone		67-64-1	C3H6O	Liquid	H316,H319,H336,H361,H225	Nobile Lab	Science and Engineering Building	Third Floor	301	2	2	L	Glass Bottle
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Acetic acid, glacial		64-19-7	C2H4O2	Liquid	H226,H303,H318,H314	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	3.38	3.38	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Nobile Lab	Science and Engineering Building	First Floor	144A	50	50	ft3	Cylinder
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Calcium carbonate		471-34-1	CCaO3	Solid	H319	Nobile Lab	Science and Engineering Building	Third Floor	301	100	100	g	Glass Bottle
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can

Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	6.4	6.4	fluid oz	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Butane		106-97-8	C4H10	Gas	H220,H280	Nobile Lab	Science and Engineering Building	Third Floor	301	480	480	ft3	Can
Dimethyl sulfoxide		67-68-5	C2H6OS	Liquid	H227,H320,H373	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Hydrochloric acid, concentrated (~37		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Plastic Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	20	20	L	Can
Hydrochloric acid, concentrated (~37		7647-01-0	HCl	Liquid	H318,H290,H335,H314	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Crystal violet solution 1%, aqueous s		548-62-9	C25H30ClN3	Liquid	H411,H351,H316,H319,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	L	Plastic Bottle
Isopropanol		67-63-0	C3H8O	Liquid	H225,H316,H319,H336,H373	Nobile Lab	Science and Engineering Building	Third Floor	301	4	4	L	Plastic Bottle
Formaldehyde, 37 wt.% solution in v		50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H351,H402	Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	mL	Plastic Bottle
2-Methylbutane		78-78-4	C5H12	Liquid	H224,H304,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Chloramphenicol		56-75-7	C11H12Cl2N2O5	Solid	H303,H350,H350,H361	Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	g	Plastic Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Nobile Lab	Science and Engineering Building	Third Floor	301	100	100	mL	Glass Bottle
Formaldehyde, 37 wt.% solution in v		50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H351,H402	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	mL	Glass Bottle
Chloramine T trihydrate		7080-50-4	C7H7ClNNaO2S · 3H2O	Solid	H302,H314,H318,H334,H335	Nobile Lab	Science and Engineering Building	Third Floor	301	250	250	g	Glass Bottle
Chloroform		67-66-3	CHCl3	Liquid	H302,H315,H319,H331,H351,H372,H402,H301,H341,H361,H336,H335,H370	Nobile Lab	Science and Engineering Building	Third Floor	301	100	100	mL	Glass Bottle
Formaldehyde, 37 wt.% solution in v		50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H351,H402	Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	mL	Glass Bottle
Formaldehyde, 37 wt.% solution in v		50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H351,H402	Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	mL	Plastic Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Plastic Bottle
Ethidium bromide		1239-45-8	C21H20BrN3	Solid	H302,H330,H341	Nobile Lab	Science and Engineering Building	Third Floor	301	10	10	mL	Glass Bottle
Chloramphenicol		56-75-7	C11H12Cl2N2O5	Solid	H303,H350,H350,H361	Nobile Lab	Science and Engineering Building	Third Floor	301	100	100	g	Plastic Bottle
D-2-Aminobutyric acid		2623-91-8	C4H9NO2	Solid		Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	g	Glass Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Plastic Bottle
Formaldehyde, 37 wt.% solution in v		50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H351,H402	Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	mL	Plastic Bottle
Formaldehyde, 37 wt.% solution in v		50-00-0	CH2O	Liquid	H226,H227,H301,H311,H314,H317,H318,H331,H341,H351,H402	Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	mL	Plastic Bottle
Orange G		1936-15-8	C16H10N2Na2O7S2	Solid	H335	Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	g	Glass Bottle
Maleic acid		110-16-7	C4H4O4	Solid	H302,H312,H315,H317,H318,H335,H402,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	g	Glass Bottle
Methanol		67-56-1	CH4O	Liquid	H225,H301,H311,H331,H370,H372	Nobile Lab	Science and Engineering Building	Third Floor	301	4	4	L	Glass Bottle

Potassium chloride		7447-40-7	ClK	Solid	H303	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	g	Glass Bottle
Potassium hydroxide		1310-58-3	HKO	Solid	H290,H302,H314,H318,H402	Nobile Lab	Science and Engineering Building	Third Floor	301	250	250	g	Glass Bottle
o-Phosphorylethanolamine		1071-23-4	C2H8NO4P	Solid	H314,H318	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	g	Glass Bottle
L-Cystathionine		56-88-2	C7H14N2O4S	Solid		Nobile Lab	Science and Engineering Building	Third Floor	301	50	50	mg	Glass Bottle
Magnesium chloride		7786-30-3	Cl2Mg	Solid	H303	Nobile Lab	Science and Engineering Building	Third Floor	301	100	100	g	Plastic Bottle
Sodium hydroxide		1310-73-2	HNaO	Solid	H290,H314,H318,H335,H402	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	g	Glass Bottle
Sodium borohydride		16940-66-2	H4BNa	Solid	H260,H301,H311,H313,H314,H318,H331,H360,H361,H300 + H310 + H330	Nobile Lab	Science and Engineering Building	Third Floor	301	25	25	g	Glass Bottle
TWEEN 80		9005-65-6	C32H60O10	Liquid	H316,H320	Nobile Lab	Science and Engineering Building	Third Floor	301	100	100	mL	Glass Bottle
CDG 3000		10049-04-4, 7732-18-5		Liquid	H315,H320,H332	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	L	Glass Bottle
Ethanol, 200 proof	Ethanol, Absolute (200 Proof), Molecular Biology Grade, Fisher BioReagents	64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Plastic Bottle
Ethanol, 100-189 proof in water		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Plastic Bottle
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Nobile Lab	Science and Engineering Building	First Floor	144A	50	50	ft3	Cylinder
Carbon dioxide, gas		124-38-9	CO2	Gas	H280	Nobile Lab	Science and Engineering Building	First Floor	144A	50	50	ft3	Cylinder
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	pint	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	pint	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	pint	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	pint	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	pint	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	pint	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	pint	Plastic Bottle
Ethanol, 200 proof		64-17-5	C2H6O	Liquid	H225,H319,H336,H401	Nobile Lab	Science and Engineering Building	Third Floor	301	1	1	pint	Plastic Bottle
Hydrogen peroxide, > 27.5 to ≤ 35 % in water		7722-84-1	H2O2	Liquid	H272,H302,H303,H314,H314,H318,H333,H335,H402,H412	Nobile Lab	Science and Engineering Building	Third Floor	301	100	100	mL	Plastic Bottle
Ethanol, 190 Proof		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Box
Ethanol, 190 Proof		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Box
Ethanol, 190 Proof		64-17-5	C2H6O	Liquid	H225,H319	Nobile Lab	Science and Engineering Building	Third Floor	301	5	5	gal	Box
Trichloroacetic acid	Trichloroacetic acid >=99.0% (titration)	76-03-9	C2HCl3O2	Solid	H303,H314,H314,H314,H318,H400,H410	Nobile Lab	Science and Engineering Building	Third Floor	301	500	500	g	Glass Bottle
Diethyl ether		60-29-7	C4H10O	Liquid	H224,H302,H320,H333,H336	Nobile Lab	Science and Engineering Building	Third Floor	301	4	4	L	Glass Bottle

	LAB GROUP	ROOM ASSIGNMENT	ASSET TAG #	ITEM DESCRIPTION	Calibration Complete (TSS Only)
1	Aaron Hernday		00913	Table Top Centrifuge	
2	Aaron Hernday		00944	Scale	
3	Aaron Hernday		00903	37C Stacking static incubator	
4	Aaron Hernday		00904	30C Stacking static incubator	
5	Aaron Hernday		00905	30C Shaking Incubator	
6	Aaron Hernday		00906	25C Shaking Incubator	
7	Aaron Hernday		00908	Cooling Still Incubator	
8	Aaron Hernday		00909	Cooling Still Incubator	
9					
10	Anand Gadre		00468	LabGard BioSafety Cabinet	
11	Anand Gadre		00469	LabGard BioSafety Cabinet	
12	Anand Gadre		00472	LabGard BioSafety Cabinet	
13	Anand Gadre		00473	LabGard BioSafety Cabinet	
14	Anand Gadre		00470	Symphony stacked incubators	
15	Anand Gadre		00471	Symphony stacked incubators	
16	Anand Gadre		00474	Legend RT Centrifuge	
17					
18	Anand Subramaniam		00953	Micro-scale	
19	Anand Subramaniam		00956	Scale for PDMS	
20					
21	Andrea Joyce		01001	small centrifuge	
22	Andrea Joyce		01002	big centrifuge	
23	Andrea Joyce		01012	biosafety cabinet	
24	Andrea Joyce		01012	pcr cabinet	
25	Andrea Joyce		01015	centrifuge	
26	Andrea Joyce		01020	incubator	
27					
28	Arvind Gopinath		119	Balance	
29	Arvind Gopinath		110	Incubator/Refrigerator	
30	Arvind Gopinath		111	Incubator/Refrigerator	
31					
32	Bin Liu		1239	New Brunswick U140 Premium	
33	Bin Liu		1208	Mettler Toledo SevenCompact	
34	Bin Liu		1206	Mettler Toledo XS204 DeltaRange	
35	Bin Liu		1238	New Brunswick Galaxy 170 S	
36	Bin Liu		1235	New Brunswick Scientific Excella E24 Incubator Shaker Series	
37	Bin Liu		1201	eppendorf Centrifuge 5424	
38	Bin Liu		1211	Fisher Scientific accuSpin 24C Clinical Centrifuge	
39					
40	Changquing Li		00450	centrifuge	
41	Changquing Li		01989	microbalance	
42					
43	Chih-Wen Ni		00351	Centrifuge (left)	
44	Chih-Wen Ni		00394	Balancer	
45	Chih-Wen Ni		00390	Centrifuge	
46	Chih-Wen Ni		00388	Incubator (60 degree C)	
47	Chih-Wen Ni		00376	Incubator (4 degree C)	
48	Chih-Wen Ni		00374	Incubator (28.5 degree C)	

	LAB GROUP	ROOM ASSIGNMENT	ASSET TAG #	ITEM DESCRIPTION	Calibration Complete (TSS Only)
49	Chih-Wen Ni		00353	Centrifuge (right)	
50					
51	Clarissa Nobile		02029	Incubator	
52	Clarissa Nobile		00686	Plate centrifuge	
53	Clarissa Nobile		00661	Centrifuge	
54	Clarissa Nobile		00667	Centrifuge	
55	Clarissa Nobile		00677	Centrifuge	
56	Clarissa Nobile		00669	Medium Biosafety Hood (C)	
57	Clarissa Nobile		00671	Large Biosafety Hood (B)	
58	Clarissa Nobile		00678	Small Biosafety Hood (A)	
59	Clarissa Nobile		00673	Incubator	
60	Clarissa Nobile		00674	Incubator (bottom)	
61	Clarissa Nobile		00675	Incubator (top)	
62	Clarissa Nobile		00665	Incubator	
63	Clarissa Nobile		00666	Incubator	
64					
65	Cytometry Core		00468	LabGard BioSafety Cabinet	
66	Cytometry Core		00469	LabGard BioSafety Cabinet	
67	Cytometry Core		00470	Symphony stacked incubators	
68	Cytometry Core		00471	Symphony stacked incubators	
69	Cytometry Core		00472	LabGard BioSafety Cabinet	
70	Cytometry Core		00473	LabGard BioSafety Cabinet	
71					
72	Dustin Kleckner		00519	Centrifuge	
73					
74	Eva de Alba		00154	Seven Compact	
75	Eva de Alba		00153	Analytical Balance	
76	Eva de Alba		00163	microcentrifuge	
77					
78	Jennifer Manilay		02103	Centrifuge	
79	Jennifer Manilay		PENDING	Incubator	
80	Jennifer Manilay		PENDING	Incubator	
81					
82	Joel Spencer		00842	Scale	
83	Joel Spencer		00835	Scale	
84	Joel Spencer		00834	Centrifuge	
85	Joel Spencer		00802	Microcentrifuge	
86	Joel Spencer		00819	Scale	
87					
88	Juris Grasis		01373	Digital Scale	
89	Juris Grasis		01372	Digital Scale	
90	Juris Grasis		01353	Benchtop Centrifuge	
91	Juris Grasis		01352	Benchtop Centrifuge	
92	Juris Grasis		01357	Benchtop Microcentrifuge	
93	Juris Grasis		01359	Benchtop Microcentrifuge	
94	Juris Grasis		01371	Benchtop Centrifuge	
95	Juris Grasis		01395	AirClean 600 PCR Workstation	
96	Juris Grasis		01394	AirClean 600 PCR Workstation	
97	Juris Grasis		01380	Floor Ultracentrifuge	
98	Juris Grasis		01383	Benchtop Microcentrifuge	
99	Juris Grasis		PENDING	VWR incubator	

	LAB GROUP	ROOM ASSIGNMENT	ASSET TAG #	ITEM DESCRIPTION	Calibration Complete (TSS Only)
100	Juris Grasis		01377	MyFuge Microfuge	
101					
102	Katrina Hoyer		1401	Allegra X-14R Beckman-Coulter Centrifuge	
103	Katrina Hoyer		1403	LabGard-Type A2 Biological Safety Cabinet	
104	Katrina Hoyer		1404	Airegard Laminar Airflow Work Station	
105	Katrina Hoyer		1411	Autoflow IR Direct Heat CO2 Incubator	
106	Katrina Hoyer		1417	Centrifuge 5424	
107	Katrina Hoyer		1418	Centrifuge 5424	
108	Katrina Hoyer		1420	Practum213-1S Scale	
109					
110	Kirk Jensen		00768	tabletop centrifuge (bacteria bench)	
111	Kirk Jensen		00769	tabletop centrifuge (RNA bench)	
112	Kirk Jensen		00784	TC Centrifuge	
113	Kirk Jensen		00767	Shaking Incubator	
114	Kirk Jensen		00758	TC hood 1	
115	Kirk Jensen		00759	TC hood 2	
116	Kirk Jensen		00760	TC hood 3	
117	Kirk Jensen		00761	TC incubator 1	
118	Kirk Jensen		00762	TC incubator 2	
119	Kirk Jensen		00763	TC incubator 3	
120	Kirk Jensen		00764	TC incubator 4	
121	Kirk Jensen		00765	TC incubator 5	
122	Kirk Jensen		00766	TC incubator 6	
123					
124	Linda Hirst		01468	Balance	
125	Linda Hirst		01496	Centrifuge (Sorvall Legend RT)	
126	Linda Hirst		01472	Incubator, Small	
127	Linda Hirst		01495	Large Incubator / Shaker	
128	Linda Hirst		01494	Tabletop centrifuge (minispin plus)	
129					
130	Maria Zoghbi		00285	Biological Safety Cabinet 1300 Series A2	
131	Maria Zoghbi		00284	Shaker Incubator	
132	Maria Zoghbi		00277	Floor Centrifuge	
133	Maria Zoghbi		00278	Floor Untracentrifuge	
134	Maria Zoghbi		00287	Shaker Incubator	
135	Maria Zoghbi		00286	Shaker Incubator	
136	Maria Zoghbi		00251	Shaker Incubator	
137	Maria Zoghbi		00267	Centrifuge	
138	Maria Zoghbi		00266	Centrifuge	
139	Maria Zoghbi		00294	Weight Balance	
140	Maria Zoghbi		00270	Weight Balance	
141	Maria Zoghbi		00272	Light Centrifuge	
142					
143	Shahar Sukenik		00053	Incubator	
144	Shahar Sukenik		00054	Incubator	
145	Shahar Sukenik		00062	Mini centrifuge	
146	Shahar Sukenik		00066	Scale	
147	Shahar Sukenik		00067	Scale	
148	Shahar Sukenik		00068	Centrifuge	
149	Shahar Sukenik		00079	Incubator	
150	Shahar Sukenik		01945	Centrifuge	

	LAB GROUP	ROOM ASSIGNMENT	ASSET TAG #	ITEM DESCRIPTION	Calibration Complete (TSS Only)
151	Shahar Sukenik		00095	Centrifuge	
152	Shahar Sukenik		00096	CO2 Incubator	
153	Shahar Sukenik		00098	Hood	
154					
155	Donna Jaramillo-Fellin		00613	Balance	
156	Donna Jaramillo-Fellin		00614	Balance	
157	Donna Jaramillo-Fellin		00615	Balance	
158	Donna Jaramillo-Fellin		00616	Balance	
159	Donna Jaramillo-Fellin		00617	Balance	
160	Donna Jaramillo-Fellin		PENDING	Balance	
161					
162	SOE CLASS LAB		00551	Centrifuge	
163	SOE CLASS LAB		00552	Co2 Incubator	
164	SOE CLASS LAB		00556	Centrifuge	
165	SOE CLASS LAB		00557	Thermo Scientific Biological Safety Cabinets	
166	SOE CLASS LAB		00558	Thermo Scientific Biological Safety Cabinet	
167	SOE CLASS LAB		00561	Co2 Incubator	
168	SOE CLASS LAB		00572	White Low Temperature Incubator	
169					
170	Tao Ye		1889	Balance	
171	Tao Ye		1884	Centrifuge	
172					
173	Victor Muñoz		00024	Sorvall ST 8R Centrifuge	
174	Victor Muñoz		00023	Sorvall wX+ Ultra Series	
175	Victor Muñoz		00022	Sorvall Lynx 4000 Centrifuge	
176	Victor Muñoz		00021	Balance	
177	Victor Muñoz		00020	Balance	
178					
179	Wei-Chun Chin		02162	Cell incubator 1	
180	Wei-Chun Chin		02163	Cell Incubator 2	
181	Wei-Chun Chin		02151	Centrifuge	
182	Wei-Chun Chin		02165	Centrifuge 2	
183	Wei-Chun Chin		02166	Laminar Flow Hood	
184	Wei-Chun Chin		02167	Laminar flow hood 2	
185	Wei-Chun Chin		02144	Large Centrifuge	
186	Wei-Chun Chin		02159	Large Incubator	
187	Wei-Chun Chin		02141	Small Incubator	
188	Wei-Chun Chin		02142	Scale	
189	Wei-Chun Chin		07160	Mini Incubator	

ORIGIN BUILDING	RM NAME/AREA DESCRIPT.	ORIGIN RM NO.	DESTINATION BUILDING	DESTINATION RM NO.	ASSET TAG #	ITEM DESCRIPTION	MANUFACTURER NAME	MANUFACTURER MODEL #	MANUFACTURER S/N	RESPONS. ASSIGN.	WIDTH (INCHES)+M	DEPTH (INCHES)	HEIGHT (INCHES)	LOCATION/PLACEMENT	MOVE NOTES
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00028	Supply Cabinet				GENERAL MOVER	42	18	84	FLOOR	Cabinet includes kleenex, slings & splints
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00029	Supply Cabinet				GENERAL MOVER	42	18	84	FLOOR	Cabinet includes medical supplies, iodine swabsticks, sodium chloride, teflapads. Contents to be packed by Chemical Mover
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00030	Supply Cabinet				GENERAL MOVER	42	18	84	FLOOR	Cabinet includes rubbing alcohol, hand sanitizer, bleach spray, saline syringe Contents to be packed by Chemical Mover
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00031	Laptop Cabinet	Tripp-Lite	SmartRack Solution		GENERAL MOVER	30	21	19	BENCHTOP	Cabinet holds ipads and laptops. Cabinet will be emptied by University prior to relocation.
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00032	Supply Cabinet				GENERAL MOVER	36	23	33	FLOOR	
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00033	Portable Refridgerator/Freezer	AccuID	SPRF26	201411040090	GENERAL MOVER	20	13	18	CART	Sits on Cart #00034
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00039	Black cart				GENERAL MOVER	25	16	26	FLOOR	
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	N/A	Peg board for crutches				GENERAL MOVER	48		42	MOUNTED ON WALL	Top of peg board at 84". Need to confirm if peg board is relocating.
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00034	Black tub with yellow top				GENERAL MOVER	20	26	14	FLOOR	
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00035	Black tub with yellow top				GENERAL MOVER	20	26	14	FLOOR	
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00037	Black tub with yellow top				GENERAL MOVER	20	26	14	FLOOR	
Gallo Recreation & Wellness Center	Breakroom/Storage	240A	Health and Athletic Center	TBD	00038	Flu Clinic Cart				GENERAL MOVER	30	17	38	FLOOR	
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	238		pop up tent				GENERAL MOVER	12	12	64	floor	
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	238	00087	Mobile privacy screen				GENERAL MOVER	27	26	70 1/2	wall mounted	
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4	Wall mounted	
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	TBD		3 purell dispenser				GENERAL MOVER	5 1/2	4	17	wall Mounted	42 in from floor
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	271	00097	AED sign				GENERAL MOVER				WALL MOUNTED	
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	271		AED & cabinet				GENERAL MOVER	17.5	17.5		WALL MOUNTED	Will need to move corresponding AED sign
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	271	00133	Whiteboard				GENERAL MOVER	18		24	FLOOR	
Gallo Recreation & Wellness Center	Downstairs Storage	1S2	Health and Athletic Center	TBD		Bookcase				GENERAL MOVER	36	18	84	FLOOR	
Gallo Recreation & Wellness Center	Downstairs Storage	1S2	Health and Athletic Center	238	00122	Scanner	ScanSnap	S1500		GENERAL MOVER	11	10	9	FLOOR	
Gallo Recreation & Wellness Center	Downstairs Storage	1S2	Health and Athletic Center	238	01223-01229	7 Tote Boxes				GENERAL MOVER	19	30	19 1/2	FLOOR	
Gallo Recreation & Wellness Center	Downstairs Storage	1S2	Health and Athletic Center	238	130	Hand cart				GENERAL MOVER	19	30	2	FLOOR	
Gallo Recreation & Wellness Center	Downstairs Storage	1S2	Health and Athletic Center	TBD	N/A	Quest Pick up				GENERAL MOVER					
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	267	00098	Vital Station	Welchallyn			GENERAL MOVER	34	1	12	mounted on wall	Wall mounted top of machine at 63 1/2 inch
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	00099	Exam Table	Midmark	Ritter 204		GENERAL MOVER	25	64	34	Floor	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	00100	Task light	WelchAllyn	RFgs300		GENERAL MOVER	21	21	42	Floor	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	00101	Table				GENERAL MOVER	13	19	35	floor	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	0102	Workstation (Tower, monitor, keyboard, mouse)	(Hp, Asus)	(monitor vw224)	(Monitor)	GENERAL MOVER	21 1/2 (Monitor 20)		70 (Monitor 13 1/2)	Wall mounted	Has a topaz signature device
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	0103	Printer	HP	laser jet pro 400		GENERAL MOVER	14	14	10	wall mounted desk	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	N/A	Large Glove box holder				GENERAL MOVER	10 1/4	4	15	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10	4	5 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD		Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	267		Exam stool	Mid mark	272-001-232	v1344743	GENERAL MOVER	25	25	18	Floor	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	0104	trash can	rubbermaid			GENERAL MOVER	23	16	16	floor	
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD	0105	IV holder				GENERAL MOVER	24	24	70 1/4	floor	
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	00046	Exam Table	Midmark	Ritter 204		GENERAL MOVER	28	55	34	FLOOR	
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	N/A	Sharps Container				GENERAL MOVER					
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	N/A	Brochure Holder				GENERAL MOVER	29		22	MOUNTED ON WALL	
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	N/A	Glove box holder				GENERAL MOVER	20		11	MOUNTED ON WALL	
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	N/A	Kleenex Box holder				GENERAL MOVER	6		10		
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	8		5		
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	00047	Metal Table				GENERAL MOVER	12	19	34		
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	00048	Task Light	WelchAllyn	GS300		GENERAL MOVER	19	19	40	FLOOR	
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	266	00049	Vital Station	WelchAllyn			GENERAL MOVER	35		12	WALL MOUNTED	
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	00050	Workstation (Monitor, Printer & Tower)	HP			GENERAL MOVER					Monitor is mounted to wall mounted desk
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	00051	Exam Stool	Midmark	272-001-201	V601026	GENERAL MOVER	24	24	20		
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	268	00052	Vital Station	Welchallyn			GENERAL MOVER	34	1	12	mounted on wall	Wall mounted top of machine at 63 1/2 inch
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	00053	Exam Table	Midmark	Ritter 204		GENERAL MOVER	28	70	32 1/4	Floor	2 electrical plugs
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	00054	Task light	WelchAllyn	LS-135		GENERAL MOVER	14	14	46	Floor	
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	00055	Table				GENERAL MOVER	13	19	35	floor	
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	00056	Workstation (Tower, monitor, keyboard, mouse)	(hp, acer)			GENERAL MOVER	20		70	Wall mounted	Has a topaz signature device
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	00057	Printer	HP	laser jet p2055DN		GENERAL MOVER	14	14	10	wall mounted desk	
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	N/A	Glove box holder				GENERAL MOVER	10	4	5	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	N/A	Large Glove box holder				GENERAL MOVER	10 1/4	4	10 3/4	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10	4	5 1/4	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	N/A	Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	00058	Exam stool	Mid mark	272-001-232	v1344750	GENERAL MOVER	25	25	18	Floor	
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD		trash can	rubbermaid			GENERAL MOVER	23	16	16	floor	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	270	00080	Vital Station	Welchallyn			GENERAL MOVER	34	1	12	mounted on wall	Wall mounted top of machine at 63 1/2 inch
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	00081	Exam Table	Midmark	Ritter 304		GENERAL MOVER	25	64	34	Floor	2 electrical plugs
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	00082	Task light	WelchAllyn	RFgs300		GENERAL MOVER	21	21	42	Floor	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	00083	Table				GENERAL MOVER	13	19	35	floor	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	00084	Workstation (Tower, monitor, keyboard, mouse)	(Hp, Acer)	(monitor v233h)	Etlgt0c04311401a690a0	GENERAL MOVER	21 1/2		70 (Monitor 12 3/4)	Wall mounted	Has a topaz signature device
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	00085	Printer	HP	laser jet p2055DN		GENERAL MOVER	14	14	10	wall mounted desk	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	N/A	Glove box holder				GENERAL MOVER	10	4	5 3/4	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	N/A	Large Glove box holder				GENERAL MOVER	10 1/4	4	10 3/4	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10	4	5 1/4	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD		Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD	00086	Exam stool	Mid mark	272-001-232	v1344747	GENERAL MOVER	25	25	18	Floor	
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD		trash can	rubbermaid			GENERAL MOVER	23	16	16	floor	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	276	00073	Vital station	Welchallyn			GENERAL MOVER	34	1	12	wall mounted	hieght from floor 52 in
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	00074	Exam Table	Midmark	ritter 024		GENERAL MOVER	28	70	33	floor	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD		trash can	rubbermaid			GENERAL MOVER	23	16	16	floor	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	00076	Work Station(tower, monitor, keyboard, mouse)	(Hp, acer)	(Hp compaq 8300) (v233h)	(Hp mxl35250c9) (Acer11400724750)	GENERAL MOVER	20		70	Wall mounted	Has a Topaz signature device
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	00075	printer	Hp	Hp laser jet p2055dn		GENERAL MOVER	14 1/4	14	10	BENCH TOP	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	00077	Table				GENERAL MOVER	13	19	35	floor	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10		5 1/2		
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2		4 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	N/A	Large glove box holder				GENERAL MOVER	10		10 1/4	Wall mounted	46 in from ground
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	00078	Task light	Welch Allyn	LS-135		GENERAL MOVER	28	70	33	floor	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	00079	Exam Stool	Mid mark	195-001-201	v349049	GENERAL MOVER	25	25	18	Floor	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD	N/A	Glove box holder				GENERAL MOVER	10	4 1/2	5 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD		Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground

Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	278	00059	Vital station	Welchallyn			GENERAL MOVER	34	1	12	wall mounted	hieght from floor 52 in
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	00060	Exam Table	Midmark	ritter 024		GENERAL MOVER	28	70	33	floor	
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD		trash can	rubbermaid			GENERAL MOVER	23	16	16	floor	
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	00061	Work Station(tower, monitor, keyboard, mouse)	(Hp, asus)	(Hp compaq 8300) (Vw2263)	(Hp mxl22408b6) (Asus c1lmqt000145)	GENERAL MOVER	20		70	Wall mounted	Has a Topaz signature device
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	00062	printer	Hp	Hp laserjet pro 400		GENERAL MOVER	14	14 1/4	10 1/2	BENCH TOP	
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	00063	Table				GENERAL MOVER	13	19	35	floor	
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10		5 3/4		
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	N/A	Large glove box holder				GENERAL MOVER	15		10 1/4	Wall mounted	46 in from ground
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	00064	Task light	WelchAllyn	LS-135		GENERAL MOVER	14	14	46	Floor	
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD	00065	Exam Stool	Mid mark	272-001-232	v333739	GENERAL MOVER	25	25	18	Floor	
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD		Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	280	00066	Vital station	Welchallyn			GENERAL MOVER	34	1	12	wall mounted	hieght from floor 52 in
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	00067	Exam Table	Midmark ritter	022-016	v1348001	GENERAL MOVER	28	70	33	floor	
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD		trash can	rubbermaid			GENERAL MOVER	23	16	16	floor	
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	00068	Work Station(tower, monitor, keyboard, mouse)	(Hp, asus)	(Hp compaq 8300) (Vw2263)	(Hp mxl22408b6) (Asus c1lmqt000145)	GENERAL MOVER	20		70	Wall mounted	Has a Topaz signature device
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	00069	printer	Hp	Hp laserjet pro 400		GENERAL MOVER	14	14 1/4	10 1/2	BENCH TOP	
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	00070	Table				GENERAL MOVER	13	19	35	floor	
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10		5 3/4		
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	N/A	Large glove box holder				GENERAL MOVER	15		10 1/4	Wall mounted	46 in from ground
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	00071	Task light	Welch Allyn	LS-135		GENERAL MOVER	28	70	33	floor	
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	N/A	Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD	00072	Exam Stool	Mid mark	195-001-201	v349049	GENERAL MOVER	25	25	18	Floor	
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	00118	Printer	HP	Laserjet P2055dn		GENERAL MOVER	14	14.5	10	Desktop	
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	TBD	00119	Supply Cabinet	Steelcase			GENERAL MOVER	36	18	28		
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	TBD		Shred box				GENERAL MOVER	19	16	35		
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	00120	Bulletin Board				GENERAL MOVER	36		24	WALL MOUNTED	
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	00121	Workstation				GENERAL MOVER	20		13.5		Monitors have wall mounted monitor stands
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	00131	Workstation				GENERAL MOVER	20		13.5		Monitors have wall mounted monitor stands
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	N/A	File Holder				GENERAL MOVER	9.75		12		
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	N/A	File Holder				GENERAL MOVER	9.75		12		
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	N/A	Tissue Box Holder				GENERAL MOVER	10	4	5 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	N/A	Tissue Box Holder				GENERAL MOVER	10	4	5 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Intake	220	Health and Athletic Center	236	00132	Scanner	ScanSnap	S1500		GENERAL MOVER	11	10	9		
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00001	Centrifuge	Quest Diagnostics	Horizon Model 642E	1503313AB379	GENERAL MOVER	10	13	10	BENCH TOP	
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00002	Urine Analyzer	Siemens	Clinitek Status		GENERAL MOVER	7	14	9	BENCH TOP	
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00003	Autoclave	Midmark Ritter	M9 UltraClave	V348727	GENERAL MOVER	15	19	16	BENCH TOP	
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00004	Printer/Fax	Brother	FAX-2840	U63274M8J657346	GENERAL MOVER	14	15	15	BENCH TOP	Requires fax line.
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00005	HP Printer	HP	LASERJET PRO 400 M401N	VNG4S23315	GENERAL MOVER	14	15	10	BENCH TOP	
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00006	Labelmaker #1	Zebra	GK420D		GENERAL MOVER	7	9	6	BENCH TOP	
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00007	Labelmaker #2	Zebra	GK420D		GENERAL MOVER	7	9	6	BENCH TOP	
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00008	Monitor	ASUS			GENERAL MOVER					Connects to #0009
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00009	Tower	HP			GENERAL MOVER					Connects to #0008
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00010	Tower	HP			GENERAL MOVER					Connects to #00011
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00011	Monitor	ASUS			GENERAL MOVER					Connects to #00010
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00012	LN2 Dewar		10L		GENERAL MOVER					
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00015	Alarm Monitor for Fridge	Helmer	TCR	101414	GENERAL MOVER	8	5	7	ON TOP OF FRIDGE/FREEZER	
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00016	Alarm Monitor for Freezer	Helmer	TCR	1014816	GENERAL MOVER	8	5	7	ON TOP OF FRIDGE/FREEZER	
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00017	Black Cachet Stool				GENERAL MOVER					
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00018	Black Cachet Stool				GENERAL MOVER					
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00019	Glove Box Holder				GENERAL MOVER	10.5	4	11		Will require removal from wall
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00020	Face Mask Holder				GENERAL MOVER	8	4	5		Will require removal from wall
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00022	Microscope	Wesco	CX		GENERAL MOVER	7	9	17	BENCHTOP	
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	238		11x boxes(bins)				GENERAL MOVER	17	13	10 1/4		
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	271	00091	workstation	hp			GENERAL MOVER					
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	271	00092	workstation	hp			GENERAL MOVER					
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	271	00093	workstation	Dell monitor			GENERAL MOVER					
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	TBD	00094	version link nurse call station				GENERAL MOVER					
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	271	00095	monitor	hp			GENERAL MOVER					
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	TBD	00096	Exam stool	Midmark	195-001	v165199	GENERAL MOVER	25	25	18	floor	
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	TBD		trash can	rubbermaid			GENERAL MOVER	23	16	16	floor	
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	TBD	N/A	Large Glove box holder				GENERAL MOVER	10 1/4	4	10 3/4	Wall mounted	
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	TBD		Aed Holder				GENERAL MOVER	10 1/2	7	8 1/2	wall mounted	51 3/4 from the floor
Gallo Recreation & Wellness Center	Nurses Station	235	Health and Athletic Center	TBD	N/A	Glove box holder				GENERAL MOVER	10	4	5 3/4	Wall mounted	
Gallo Recreation & Wellness Center	Phlebotomy	226	Health and Athletic Center	TBD	00040	Phlebotomy Chair	Winco	653	653A-119119	GENERAL MOVER	51	39	51	FLOOR	
Gallo Recreation & Wellness Center	Phlebotomy	226	Health and Athletic Center	265	00041	Vital Machine Cart	Welch Allyn			GENERAL MOVER	21	21	53	FLOOR	
Gallo Recreation & Wellness Center	Phlebotomy	226	Health and Athletic Center	TBD	00042	Specimen Fridge	Haier			GENERAL MOVER	18	18	27	FLOOR OR BENCH	Fridge will be empty prior to relocation. Fridge also has temperature monitor.
Gallo Recreation & Wellness Center	Phlebotomy	226	Health and Athletic Center	TBD	00043	Cabinet				GENERAL MOVER	31	23	32	FLOOR	Stores needles & stool collection supplies
Gallo Recreation & Wellness Center	Phlebotomy	226	Health and Athletic Center	TBD	00044	Workstation	ASUS Monitor & Tower			GENERAL MOVER				DESK	
Gallo Recreation & Wellness Center	Phlebotomy	226	Health and Athletic Center	TBD	00045	Scanner	Canon	Imageformula DR-3010C		GENERAL MOVER				DESK	
Gallo Recreation & Wellness Center	Phlebotomy	226	Health and Athletic Center	TBD	N/A	Sharps Container				GENERAL MOVER					
Gallo Recreation & Wellness Center	Providers office	270	Health and Athletic Center	TBD	00090	Whiteboard/monitor				GENERAL MOVER	30 1/2		20		
Gallo Recreation & Wellness Center	Restroom	2T2	Health and Athletic Center	TBD		Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Restroom	2T3	Health and Athletic Center	TBD		Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Restroom	2T1	Health and Athletic Center	TBD		Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Restroom	2T1	Health and Athletic Center	TBD		Table				GENERAL MOVER	13	19	35	floor	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	269	0106	Vital Station	Welchallyn			GENERAL MOVER	34	1	12	mounted on wall	Wall mounted top of machine at 63 1/2 inch
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	265	0109	Procedure Table	Midmark	Ritter 230-002	v578986	GENERAL MOVER	27	51	56	Floor	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0107	Task light	WelchAllyn	RFgs300		GENERAL MOVER	21	21	42	Floor	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0108	Table				GENERAL MOVER	13	19	35	floor	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0110	Workstation (Tower, monitor, keyboard, mouse)	(Hp, Asus)	(monitor vw224)(Hp 8200 Compaq)	(Monitor vw224u) (Hp Mxl13402zw)	GENERAL MOVER	21 1/2 (Monitor 20)		70 (Monitor 16)	desk	Has a topaz signature device
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0112	Printer	HP	laser jet pro P30015		GENERAL MOVER	17	16	12	wall mounted desk	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	N/A	Large Glove box holder				GENERAL MOVER	10 1/2	4	15	Wall mounted	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10	4	5 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4	Wall mounted	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD		Sharps Container				GENERAL MOVER	10	4	10	WALL MOUNTED	Mounted 46 inches from ground
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD		Exam stool	Mid mark	272-001-232	v1344743	GENERAL MOVER	25	25	18	Floor	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD		trash can	rubbermaid			GENERAL MOVER	23	16	16	floor	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0111	Fax	Cannon	image formula c225		GENERAL MOVER	12	6	10	desk	
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0113	Paper Shredder	Fellows	ps-60		GENERAL MOVER	14 1/2	11 1/2	18		
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0114	Wheelchair		ATO trex2	09dm025953	GENERAL MOVER	48 1/2	13 1/2	37		
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0115		conmed	hyfrecoatr		GENERAL MOVER					
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD	0117	Printer table				GENERAL MOVER	20	17	29		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	281		Donor Sign				GENERAL MOVER	24		31		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	281		Dedication Sign				GENERAL MOVER	26.25		29.25		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	281		Health Center License				GENERAL MOVER	18		19		

Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	281		Mary Stuart Rodger Foundation Sign				GENERAL MOVER	18		24		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	281		Mission Statement				GENERAL MOVER	23		27.25		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	281		Stanchions (2)				GENERAL MOVER	47.75	13	40		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	283		Purrell Dispenser (freestanding)				GENERAL MOVER					
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10	4	5 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4	Wall mounted	
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER	10	4	5 1/2	Wall mounted	
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4	Wall mounted	
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	238	00134-0136	sandwich boards				GENERAL MOVER	27	4	45		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	281		student health sign				GENERAL MOVER	35	10	71		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	281		patents rights sign				GENERAL MOVER	21 1/14	1	27 1/4		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	TBD		sign holder				GENERAL MOVER	16	16	47		
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	TBD	N/A	Tissue Box Holder				GENERAL MOVER					
Gallo Recreation & Wellness Center	Waiting Room	200	Health and Athletic Center	TBD	N/A	Procedure Mask box holder				GENERAL MOVER	7 1/2	4 1/2	4	Wall mounted	
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	2C8 (Weight Alcove)	00021	Scale	Seca			GENERAL MOVER	14	21	37	FLOOR	
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	2C8 (Weight Alcove)	00023	Black cart				GENERAL MOVER	27	18	34		00024 & 00025 sit on cart.
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	2C8 (Weight Alcove)	00024	EKG Machine	Burdick	Atria 3000	A3000-010495	GENERAL MOVER	14	13	5	CART	
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	2C8 (Weight Alcove)	00025	Vacuum	Schuco	S130P		GENERAL MOVER	8	15	11	CART	
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	271	00036	Whiteboard				GENERAL MOVER	36		24	MOUNTED ON WALL	Will need to be removed and reinstalled
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	2C8 (Weight Alcove)	00026	table				GENERAL MOVER	19	16	13		
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	2C8 (Weight Alcove)	00027	Height recorder				GENERAL MOVER				MOUNTED ON WALL	Currently mounted on wall at 92" AFF

ORIGIN BUILDING	RM NAME/AREA DESCRIPT.	ORIGIN RM NO.	DESTINATION BUILDING	DESTINATION RM NO.	ASSET TAG #	ITEM DESCRIPTION	MANUFACTURER NAME	MANUFACTURER MODEL #	MANUFACTURER S/N	RESPONS. ASSIGN.	WIDTH (INCHES)+M	DEPTH (INCHES)	HEIGHT (INCHES)	LOCATION/PLACEMENT	MOVE NOTES
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00013	Freezer/Fridge	Helmer	HLF105 Horizon Series	2011068	REFRIGERATOR MOVER	24	27	75	FLOOR	Freezer needs to maintain -50 to 15 degrees. Fridge needs to maintain 2 to 8 degrees
Gallo Recreation & Wellness Center	Laboratory	240	Health and Athletic Center	261	00014	Medical Fridge	Helmer	ILR111	988570	REFRIGERATOR MOVER	24	25	71	FLOOR	Fridge needs to maintain 2 to 8 degrees

ORIGIN BUILDING	RM NAME/AREA DESCRIPT.	ORIGIN RM NO.	DESTINATION BUILDING	DESTINATION RM NO.	ASSET TAG #	ITEM DESCRIPTION	MANUFACTURER NAME	WIDTH (INCHES)+M	DEPTH (INCHES)	HEIGHT (INCHES)	LOCATION/PLACEMENT
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	273	00088	Soiled lab coat hamper		18	20	38	floor
Gallo Recreation & Wellness Center	Corridor	2C1	Health and Athletic Center	273	00089	Dirty towels		18	20	38	floor
Gallo Recreation & Wellness Center	Exam Room # 2	230	Health and Athletic Center	TBD		Biohazard trashcan	rubbermaid	16	16	16	floor
Gallo Recreation & Wellness Center	Exam Room # 3	250	Health and Athletic Center	TBD	N/A	Biohazard trashcan	rubbermaid				FLOOR
Gallo Recreation & Wellness Center	Exam Room # 4	255	Health and Athletic Center	TBD	N/A	Biohazard trashcan	rubbermaid	16	16	16	floor
Gallo Recreation & Wellness Center	Exam Room # 5	245	Health and Athletic Center	TBD		Biohazard trashcan	rubbermaid	16	16	16	floor
Gallo Recreation & Wellness Center	Exam Room # 6	260	Health and Athletic Center	TBD		Biohazard trashcan	rubbermaid	16	16	16	floor
Gallo Recreation & Wellness Center	Exam Room # 7	285	Health and Athletic Center	TBD		Biohazard trashcan	rubbermaid	16	16	16	floor
Gallo Recreation & Wellness Center	Exam Room # 8	280	Health and Athletic Center	TBD		Biohazard trashcan	rubbermaid	16	16	16	floor
Gallo Recreation & Wellness Center	Exterior	Cage Area	Health and Athletic Center	118		Biohazard Waste (3 bins)					
Gallo Recreation & Wellness Center	Phlebotomy	226	Health and Athletic Center	TBD	N/A	Biohazard trashcan	rubbermaid				FLOOR
Gallo Recreation & Wellness Center	Triage	215	Health and Athletic Center	TBD		Biohazard trashcan	rubbermaid	16	16	16	floor
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	261	N/A	O2 cylinder					
Gallo Recreation & Wellness Center	Weight Alcove	2C2	Health and Athletic Center	261	N/A	O2 cylinder					

MASTER CHEMICAL LIST 2020

Primary Refrigerator (Going to Lab in new building)

- Bicillin LA
- Eye Wash Solution
- Gardasil 9
- Hemotrol Level 1 and Level 3
- Hepatitis A
- Hepatitis B
- HIV Control Solutions
- Humilin R
- Menactra
- Proparacaine HCL Eyedrop Solution
- Typhoid Vaccine
- Td
- Tdap
- Urine Drug Screen Control Kit Solutions
- Urine HCG Control Kits Solution

Primary Freezer (Going to Lab in new building)

- MMR
- Ice Packs
- Propylene Glycol Solution
- Varicella

BackUp Med Refrigerator (Going to Lab in new building)

- Glycerol Solution

Lab Cabinets (Going to Drug Room in new building)

- Acetaminophen Tablets
- Albuterol Sulfate Inhalation Solution
- Alcohol, Isopropyl
- Ammonia Inhalant
- Antacid (Mylanta)
- Aquasonic Solution
- Aspirin Chewable Tablets 81 mg
- Aspirin Tablets 325 mg
- Bacitracin Ointment
- BD Affirm (BV)
- Castile Soap Towelette
- Ceftriaxone Injections (250 mg and 1 gram)
- Compress Cold Pack
- Compress Hot Pack
- Compound Benzoin Tincture

MASTER CHEMICAL LIST 2020

- Culture Swabs (Red & Blue Top)
- Diphenhydramine Capsules
- Diphenhydramine Hydrochloride Solution
- Distilled Water
- Earwax Removal Drops
- EContra One-Step 1.5 mg Tablets (Levonorgestrel)
- Epipen
- Ethyl Chloride
- Exofin Skin Adhesive
- Eye Wash Solution
- Facilipro Glass Cleaner
- Formalin 10mL & 30mL
- Ful Glo Strips
- GC/CT Urine (Yellow)
- GC/CT Vaginal (Orange)
- GC/CT Unisex (White)
- Glucagen
- Glycerol
- Glucose Controls Level 1 and Level 3
- Glucose Gel
- Hemoccult Developer
- Hurricane Spray
- Hydrocortisone Cream 1%
- Hydrogen Peroxide 3%
- Hydrion PH Test Paper
- Instrument Lubricant and Rust Solution
- Ibuprofen Tablets
- Iodine Packing Strip
- Iodine Providine Solution
- Kenalog Injection
- Ketorolac Tromethamine Injection
- Lesion (Herpes Culture)
- Lidocaine & Epinephrine
- Lidocaine Hydrochloride Injection
- Lidocaine Hydrochloride 2% Oral Solution (Viscous)
- Lubricating Jelly
- Medroxyprogesterone Acetate Suspension
- Methylpresnisolone Sodium
- Mineral Oil
- Multi-Enzymatic Cleaner
- Nail Polish Remover Pads
- Narcan Nasal Spray
- Nasopharyngeal Swab
- Neo-Synephrine
- Nitroglycerin Tablets
- Ondansetron Injection
- Ondansetron ODT
- Potassium Hydroxide Prep 10%
- Prednisone Tablets
- Promethazine Injection
- Propylene Glycol
- Ranitidine Injection
- Saline Irrigation Solution
- Sani-Cloth
- Silvadene Cream 1%
- Silver Nitrate
- Sodium Chloride 0.9% (IV Bags, Flush Syringe)
- Solu-Medrol
- Speed Clean
- Sterile Diluent
- Surepath Vials
- Trichloracetic Acid
- Xerox C3445 Copier
- Xylocaine
- Zantac (Ranitidine)
- Yeast Culture (eSwab)

MASTER CHEMICAL LIST 2020

Storage Cabinets (Going to General Storage in new building)

- Antimicrobial Lotion Soap w/Aloe
- Alcohol, Isopropyl
- Bleach Solution
- Bleach Spray
- Bleach Wipes
- Cavicide Solution
- Cavicide Spray
- Caviwipes
- Citrus Air Fragrance
- Dermal Wound Cleaner
- Febreeze
- Hand Sanitizer
- Hibiclens
- Hydrogen Peroxide 3%
- Hydrogen Peroxide 3% Disinfectant Wipe
- Iodine Providine Swabs
- Iodine Providine Solution
- Iodine Packing Strip
- Lotion
- Lysol
- Normal Saline
- Para-Pak C&S Non-Nutritive Stool
- Pranactin-Citric C-Urea, 75 mg
- Transport Solution for Enteric Pathogens
- Saline Irrigation Solution
- Sodium Chloride 0.9% (IV Bags, Flush Syringe, Dropper)
- Total Fix Ova & Parasite Detection Solution

Under Sink in Lab (Going to Lab in new building)

- Nitrogen (Liquid)

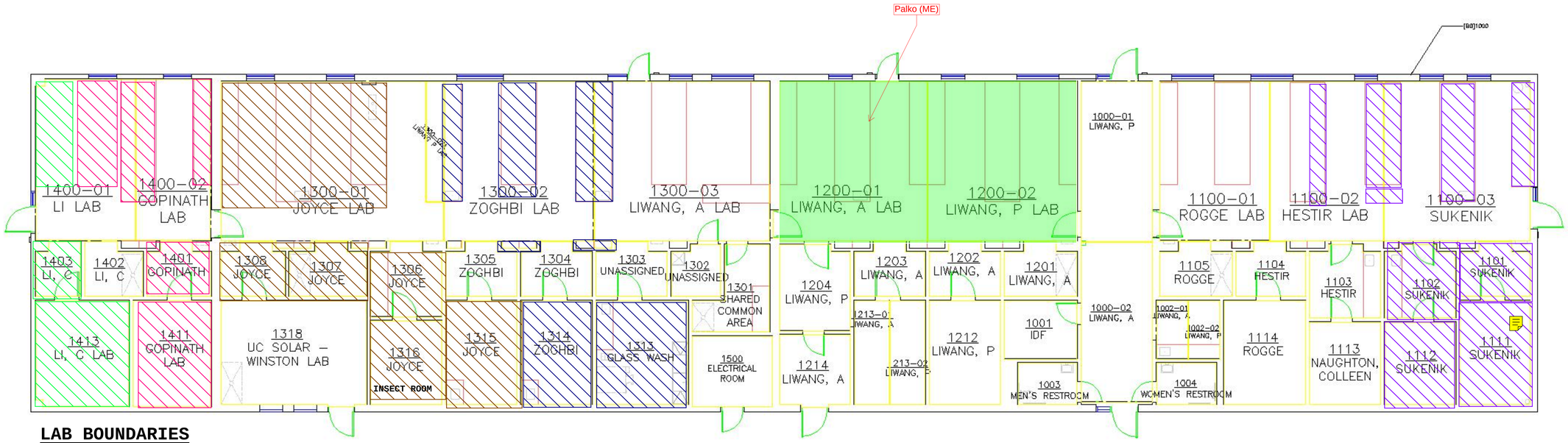
Entrance To Lab (Going to Lab in new building)

- Oxygen

Nurse Station (Going to General Storage in new building)

- Screen Cleaning Wipes

CASTLE 1201 LEVEL 01



LAB BOUNDARIES

- **ANDREA JOYCE**
- **MARIA ZOGHBI**
- **SHAHAR SUKENIK**
- **ARVIND GOPINATH**
- **CHANGQUING LI**

UC Merced FacilitiesLink

https://ucmerced.metabim.com/Default.htm

SCALE: Digital Plot

01/08/2019

Castle Business Park – 1201

CAAN: 0110

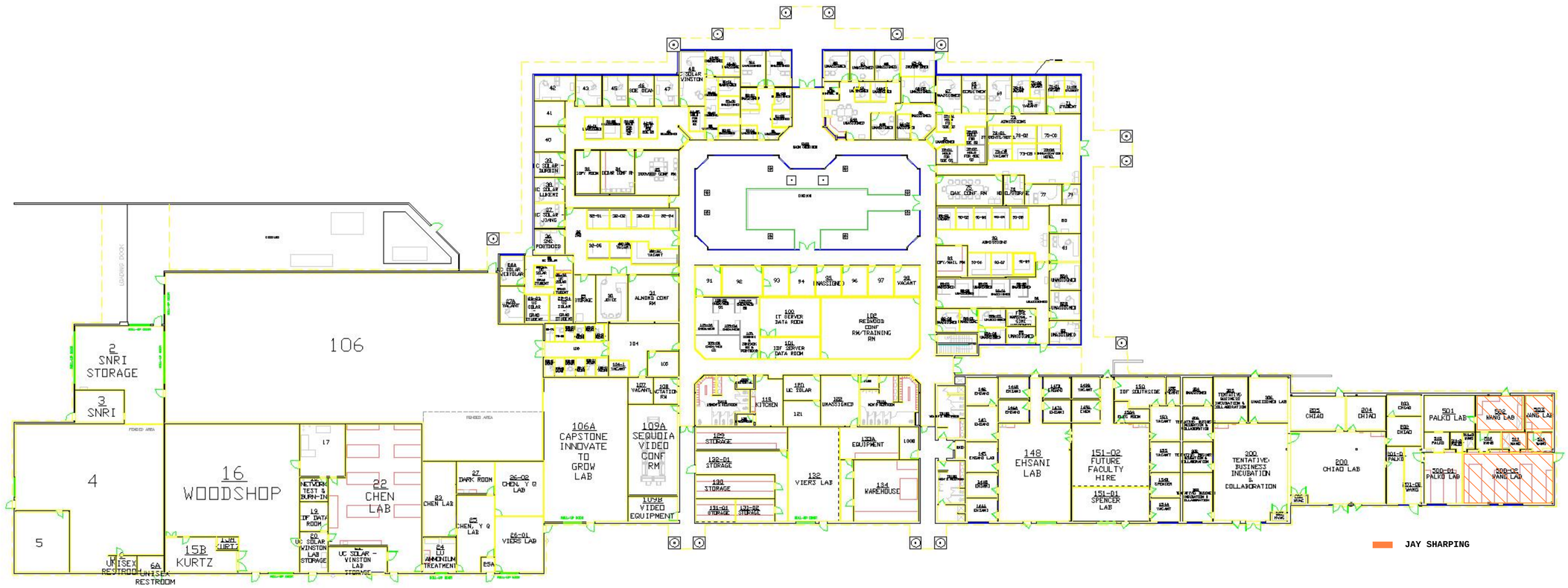
First Floor

1 of 1

A–1

ATTACHMENT 08
ORIGIN FLOOR PLANS FOR BSP

CASTLE 1200 LEVEL 01



UC Merced MetaBIM

https://ucmerced.metabim.com/Default.htm

SCALE:
Digital Plot

12/20/18

Castle Business Park – 1200

CAAN: 0100

First Floor

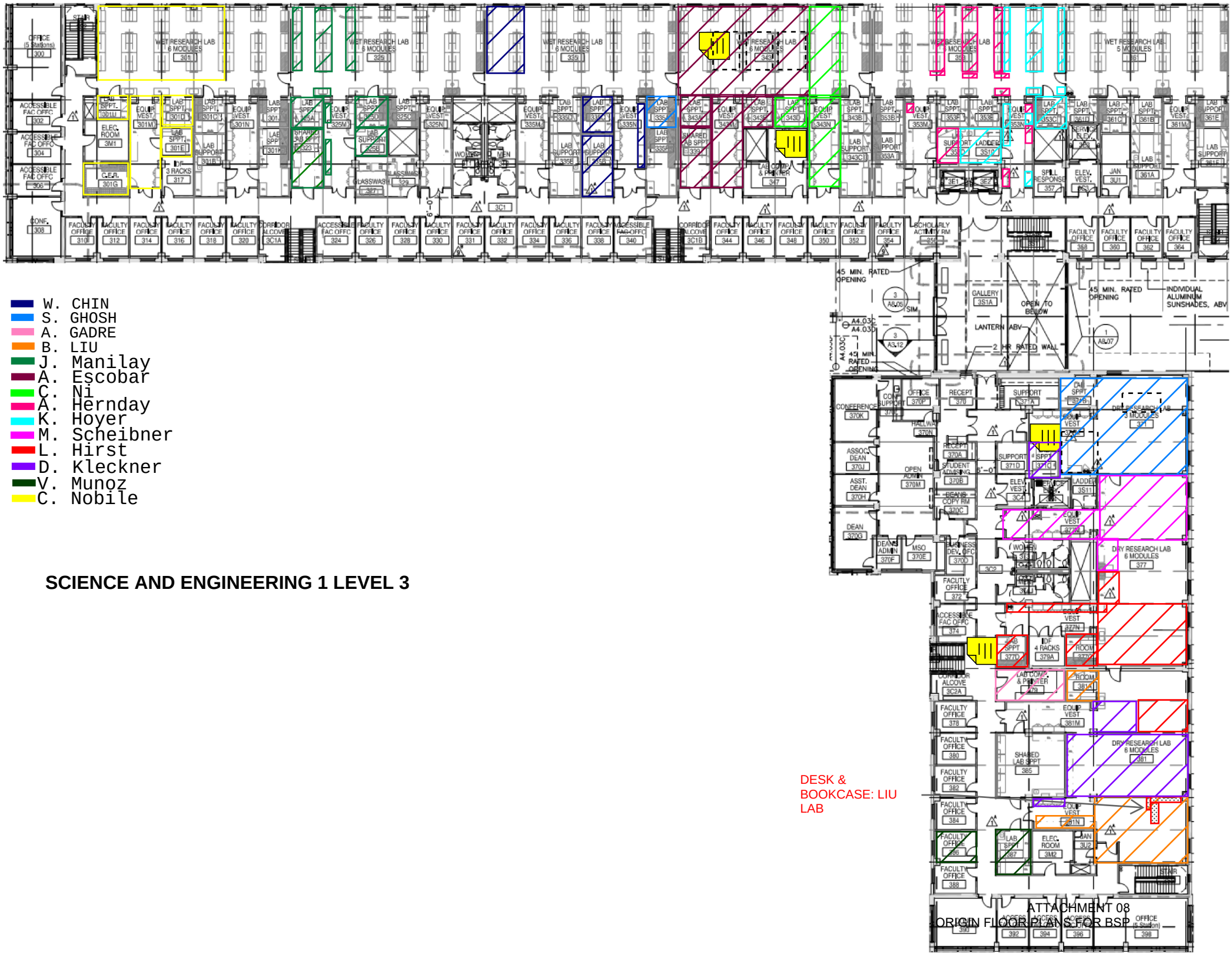
1 of 1

A–1

ATTACHMENT 08
ORIGIN FLOOR PLANS FOR BSP

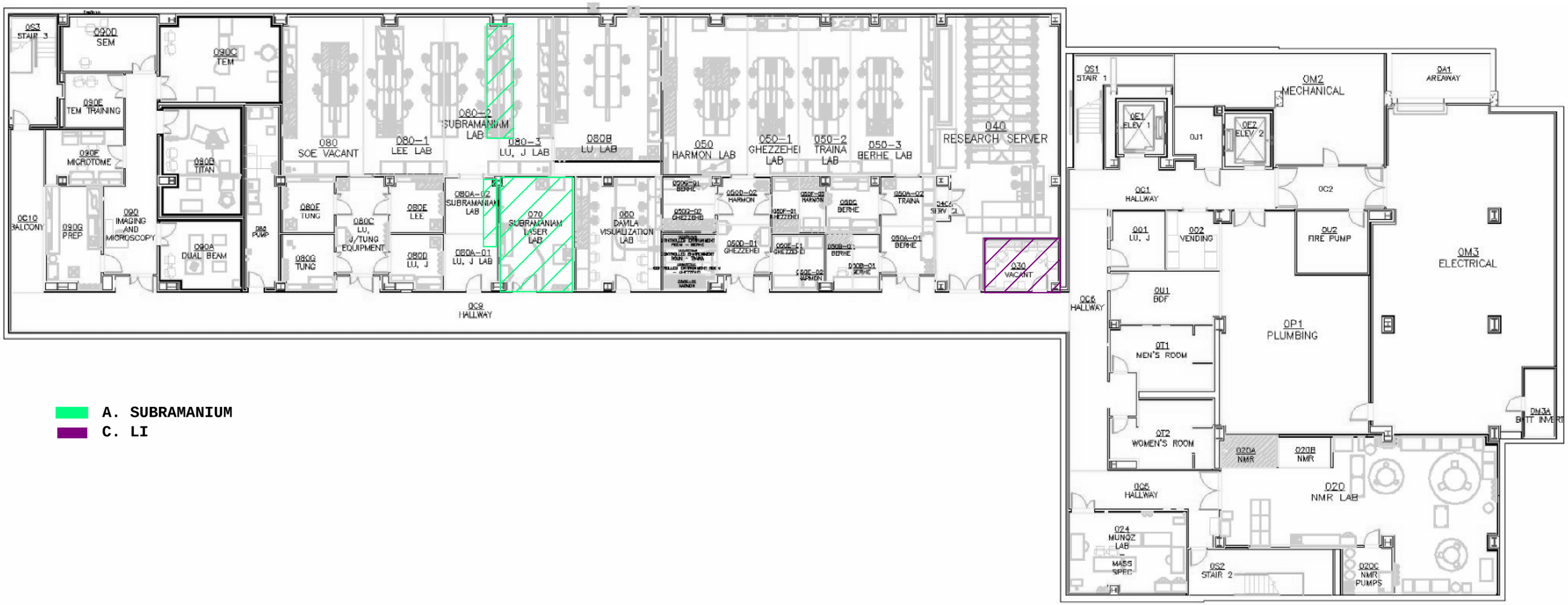
ATTACHMENT 08
ORIGIN FLOOR PLANS FOR BSP

S. KHATRI
T. YE
EAL
SCIENCE AND ENGINEERING 1 LEVEL 2
ATTACHMENT 08
ORIGIN FLOOR PLANS FOR BSP



ATTACHMENT 08
ORIGIN FLOOR PLANS FOR BSP

SCIENCE AND ENGINEERING 2 LEVEL B

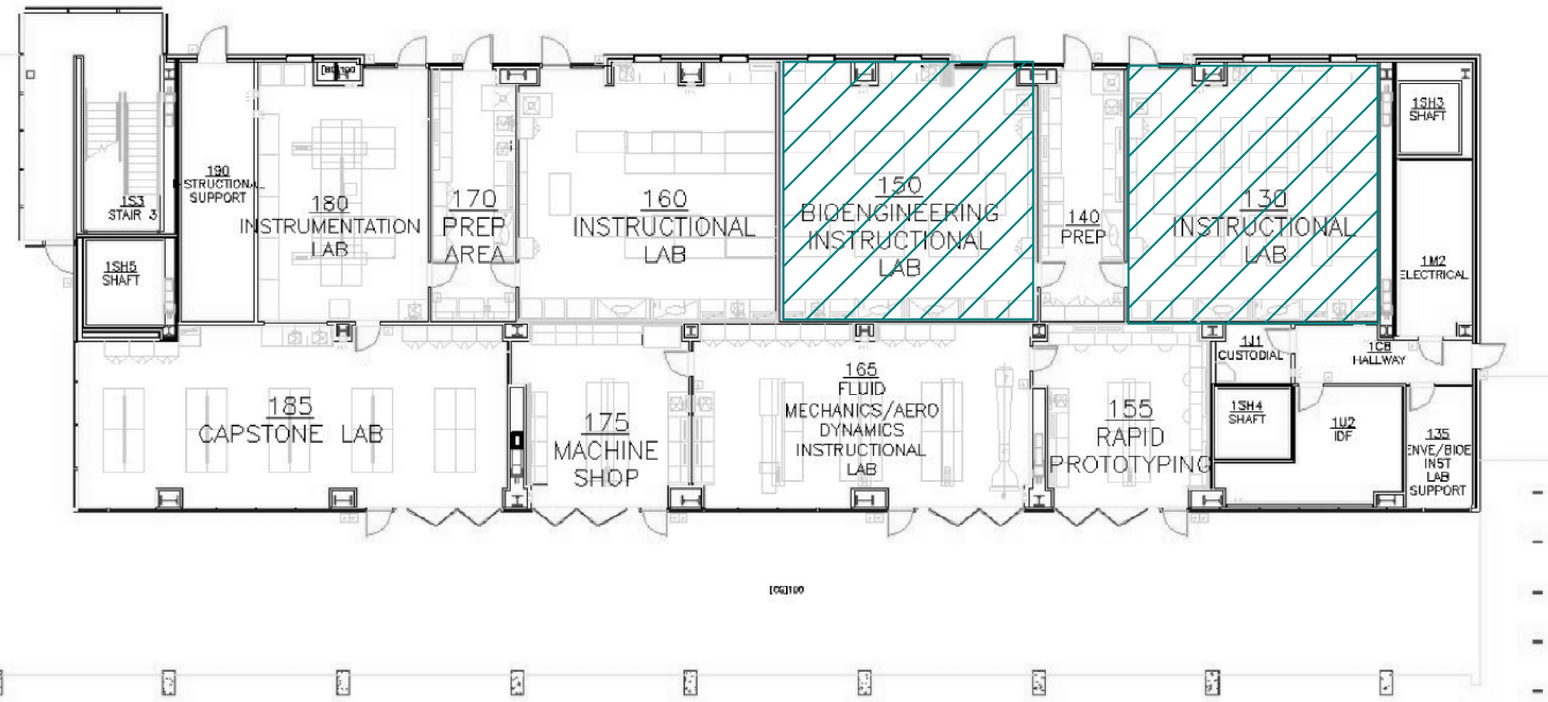


A. SUBRAMANIUM

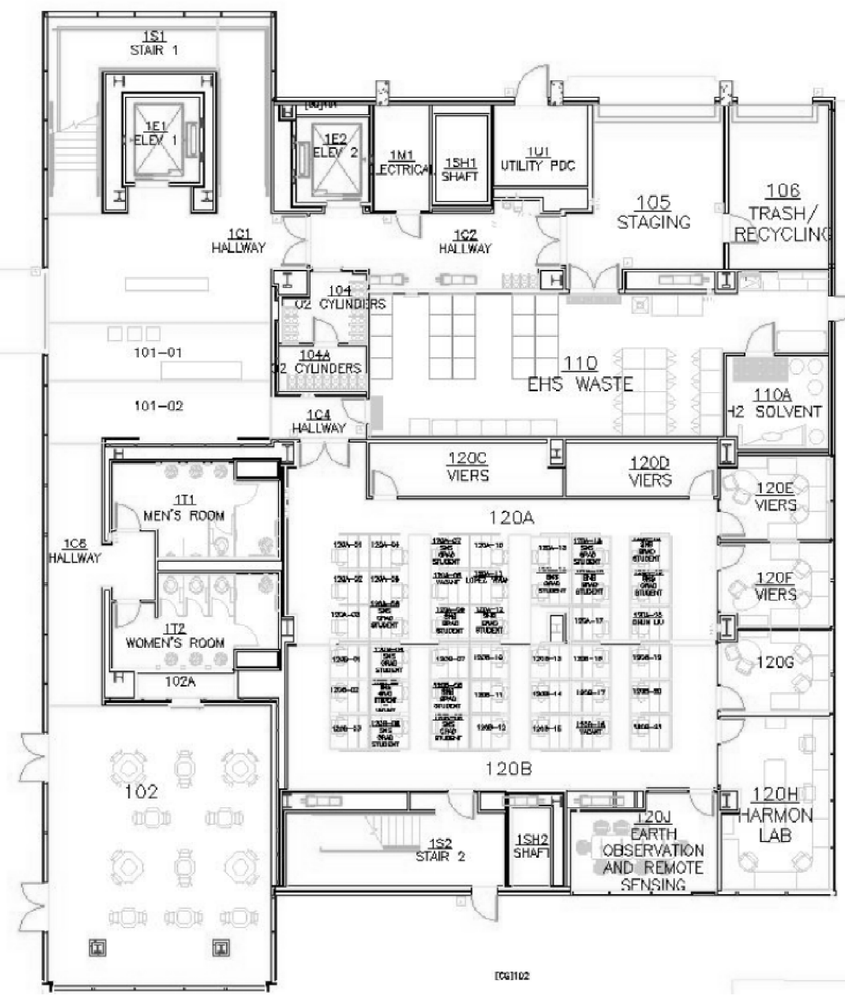
C. LI

ATTACHMENT 08
ORIGIN FLOOR PLANS FOR BSP

SCIENCE AND ENGINEERING 2 LEVEL 1



S. DIAZ - SOE CLASS LAB

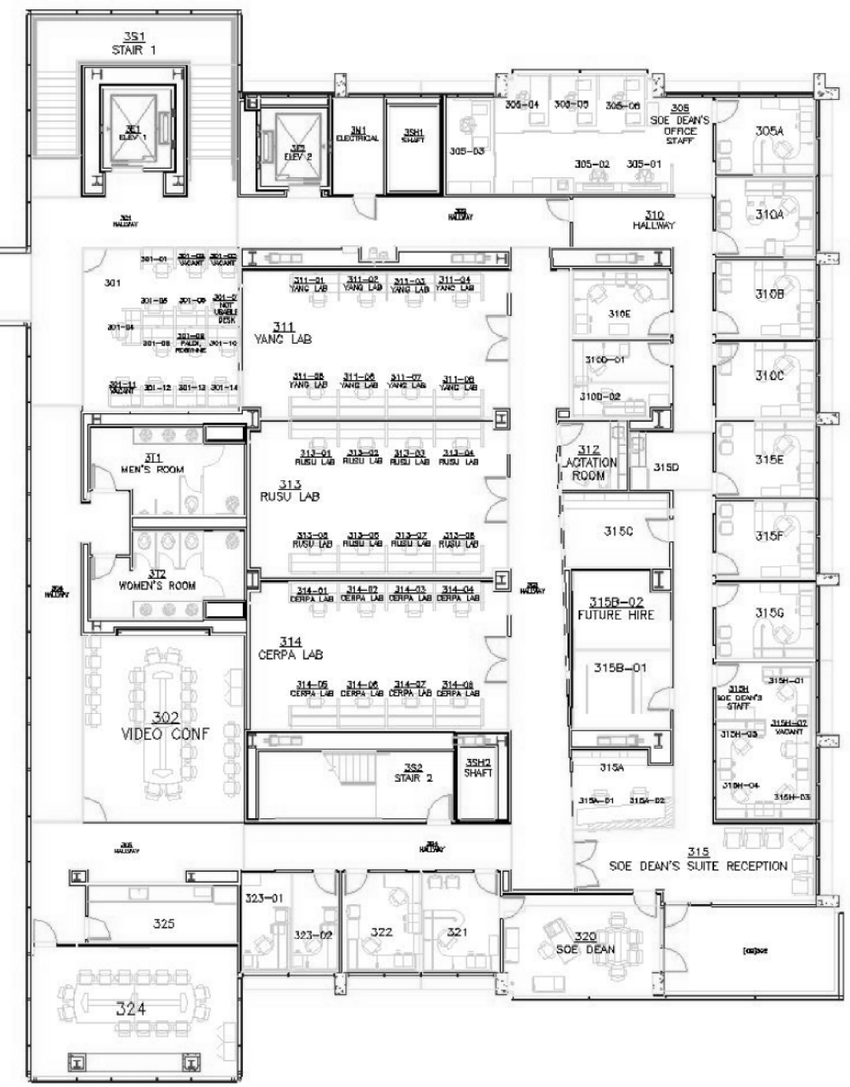


ATTACHMENT 08
ORIGIN FLOOR PLANS FOR BSP

SCIENCE AND ENGINEERING 2 LEVEL 2

A. SUBRAMANIUM

SCIENCE AND ENGINEERING 2 LEVEL 3

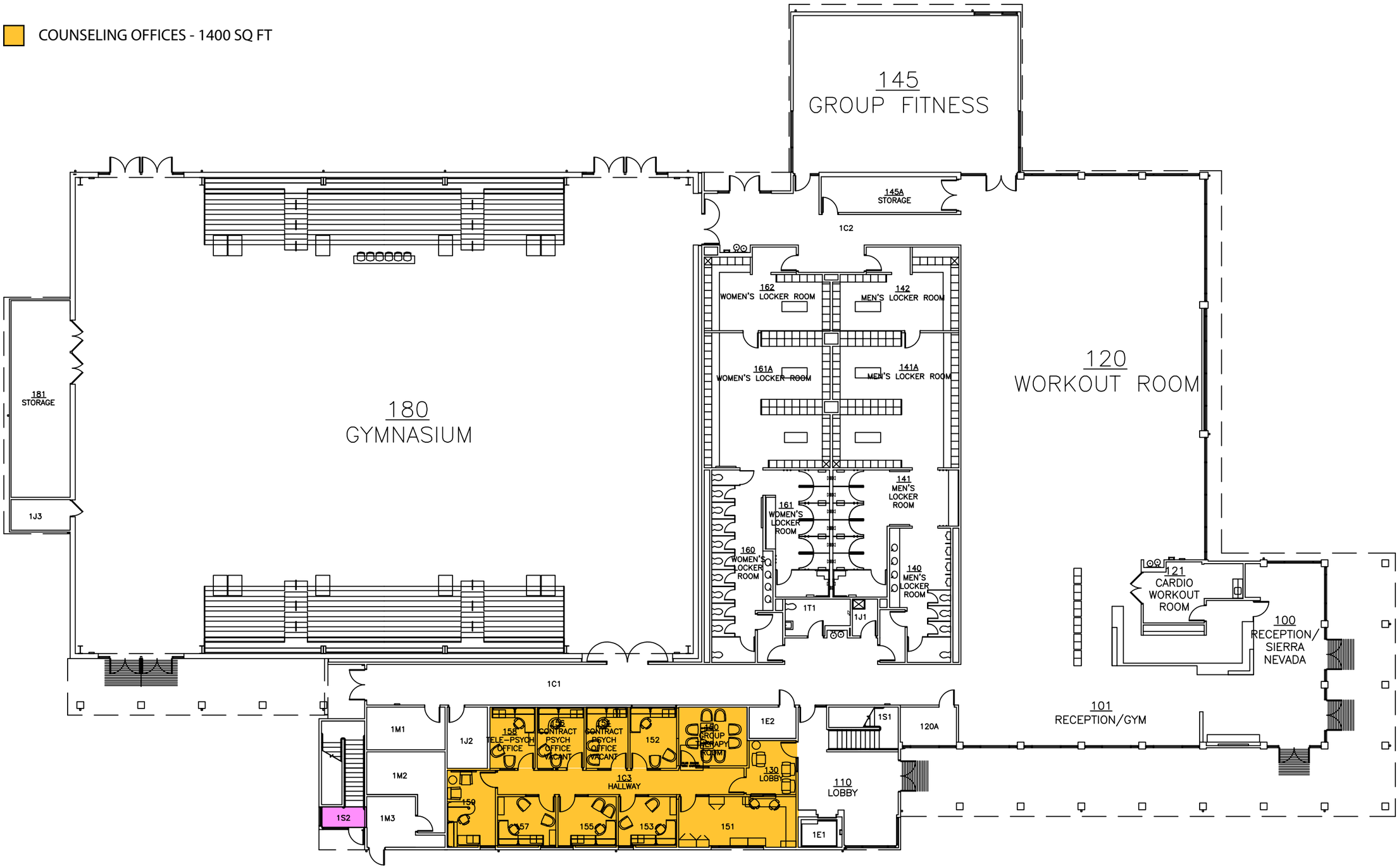


ATTACHMENT 08
ORIGIN FLOOR PLANS FOR BSP

GALLO RECREATION AND WELLNESS CENTER

LEVEL 01

COUNSELING OFFICES - 1400 SQ FT

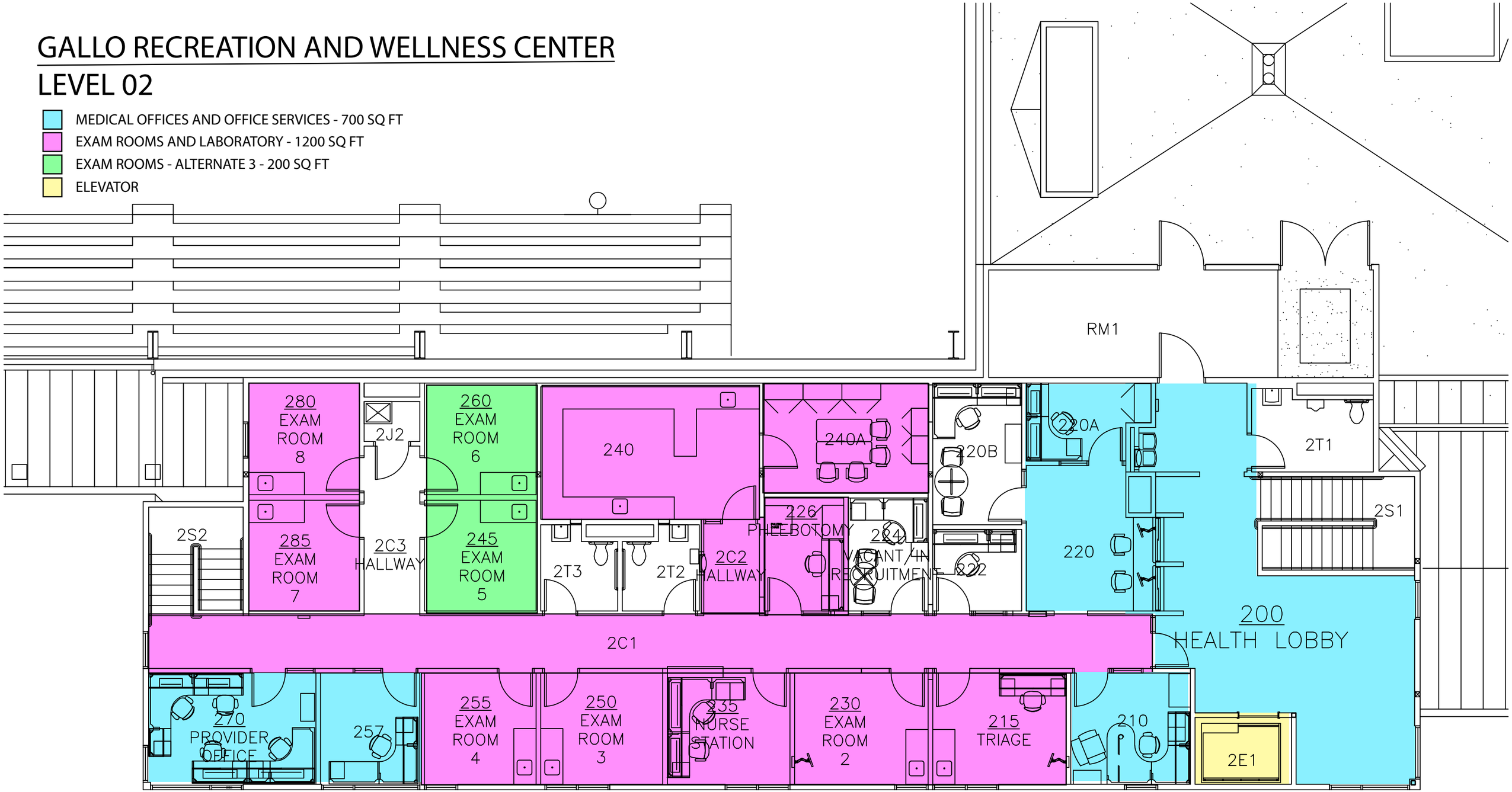


ATTACHMENT 09
CAMPUS BUILDING ORIGIN FLOOR PLAN FOR HAC MOVES

GALLO RECREATION AND WELLNESS CENTER

LEVEL 02

- MEDICAL OFFICES AND OFFICE SERVICES - 700 SQ FT
- EXAM ROOMS AND LABORATORY - 1200 SQ FT
- EXAM ROOMS - ALTERNATE 3 - 200 SQ FT
- ELEVATOR

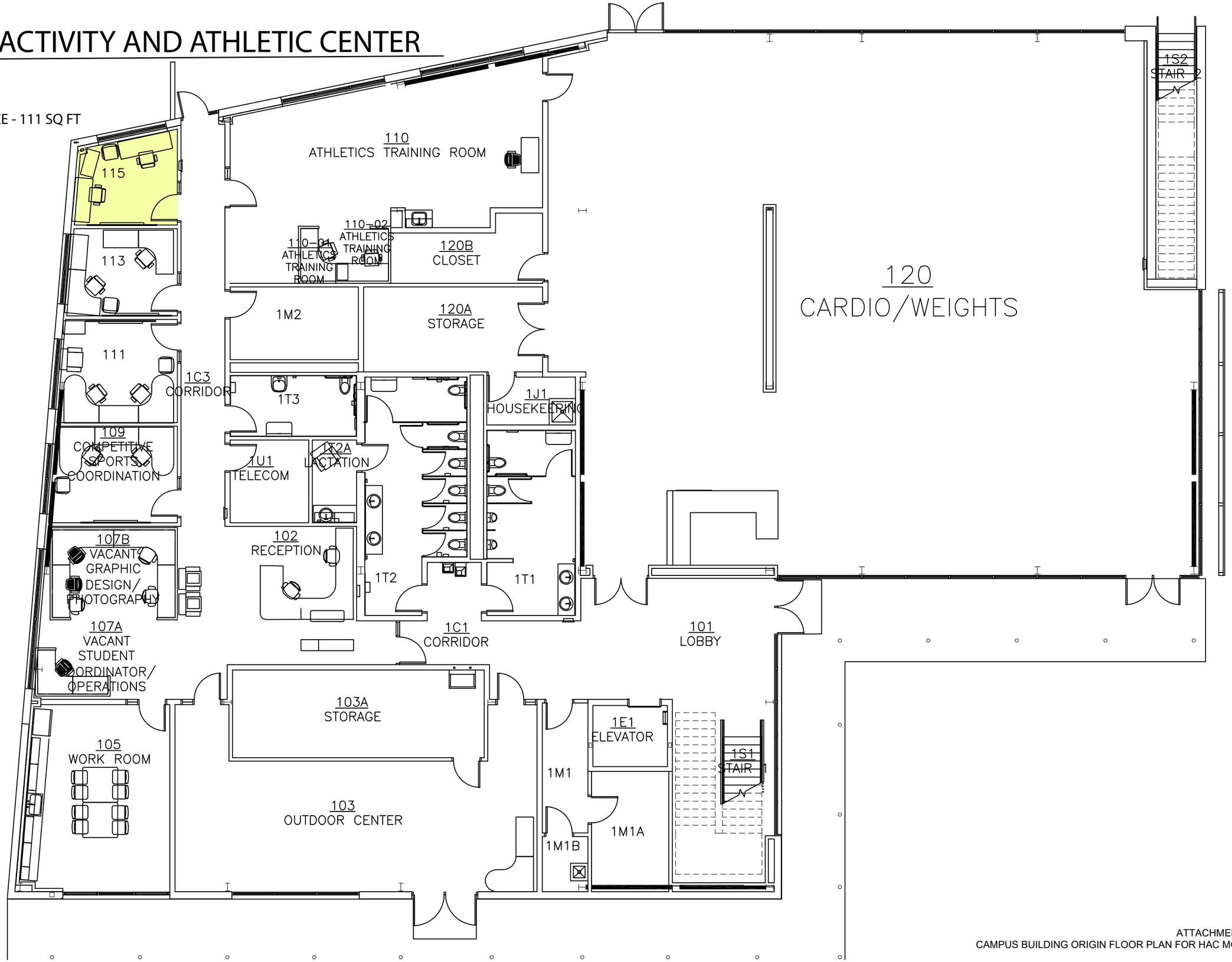


ATTACHMENT 09
CAMPUS BUILDING ORIGIN FLOOR PLAN FOR HAC MOVES

STUDENT ACTIVITY AND ATHLETIC CENTER

LEVEL 01

ATHLETIC OFFICE - 111 SQ FT

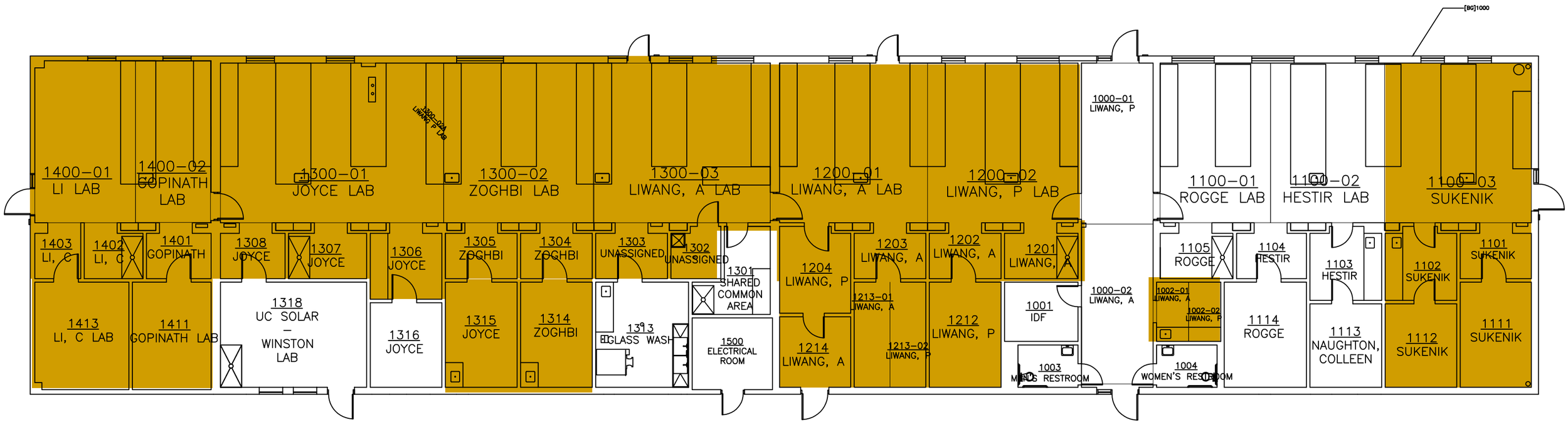


ATTACHMENT 09
CAMPUS BUILDING ORIGIN FLOOR PLAN FOR HAC MOVES

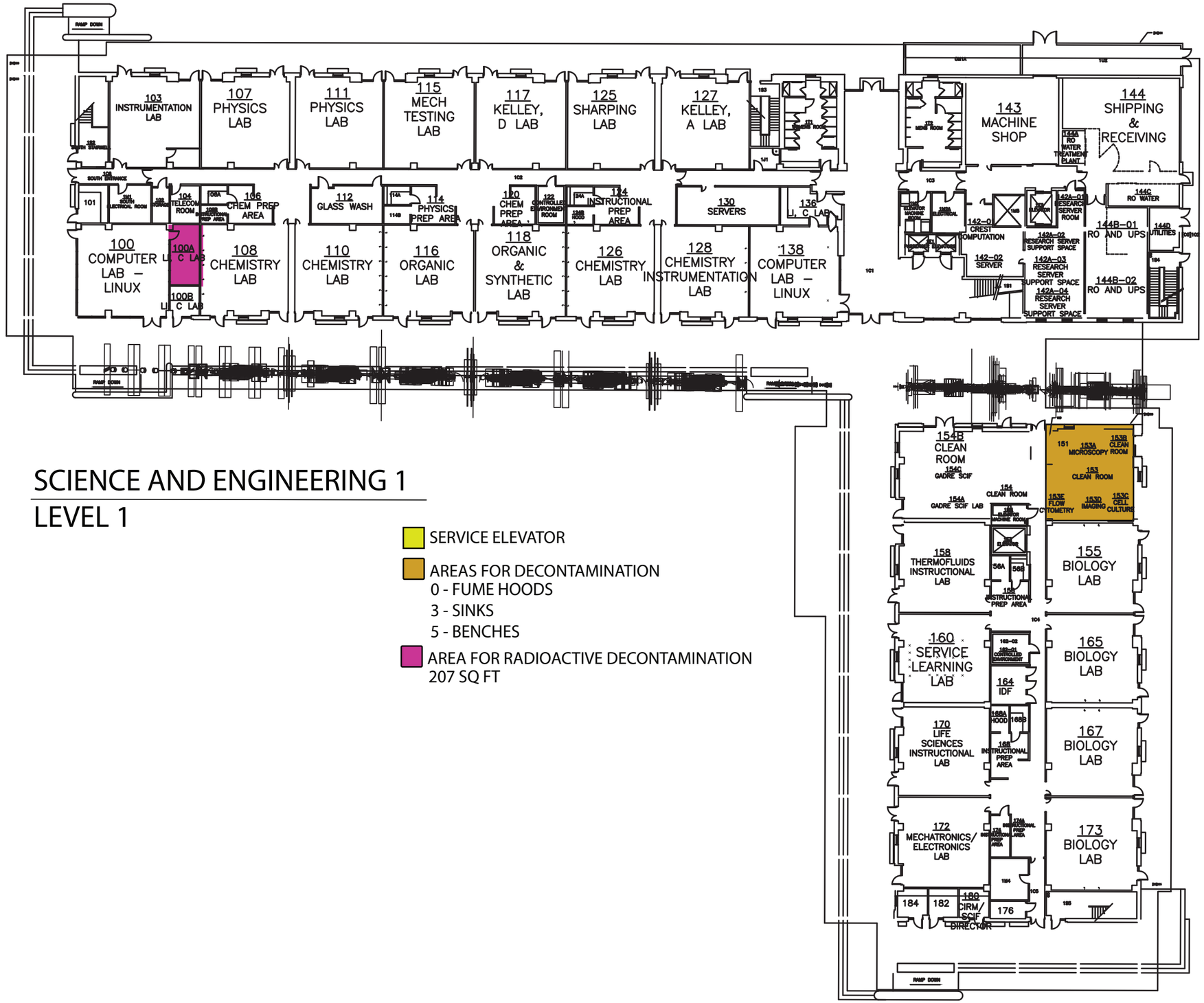
CASTLE 1201
LEVEL 1

AREAS FOR DECONTAMINATION

3 - FUME HOODS
12 - SINKS
70- BENCHES



Attachment 10
Decontamination Areas in Origin Buildings



SCIENCE AND ENGINEERING 1
LEVEL 1

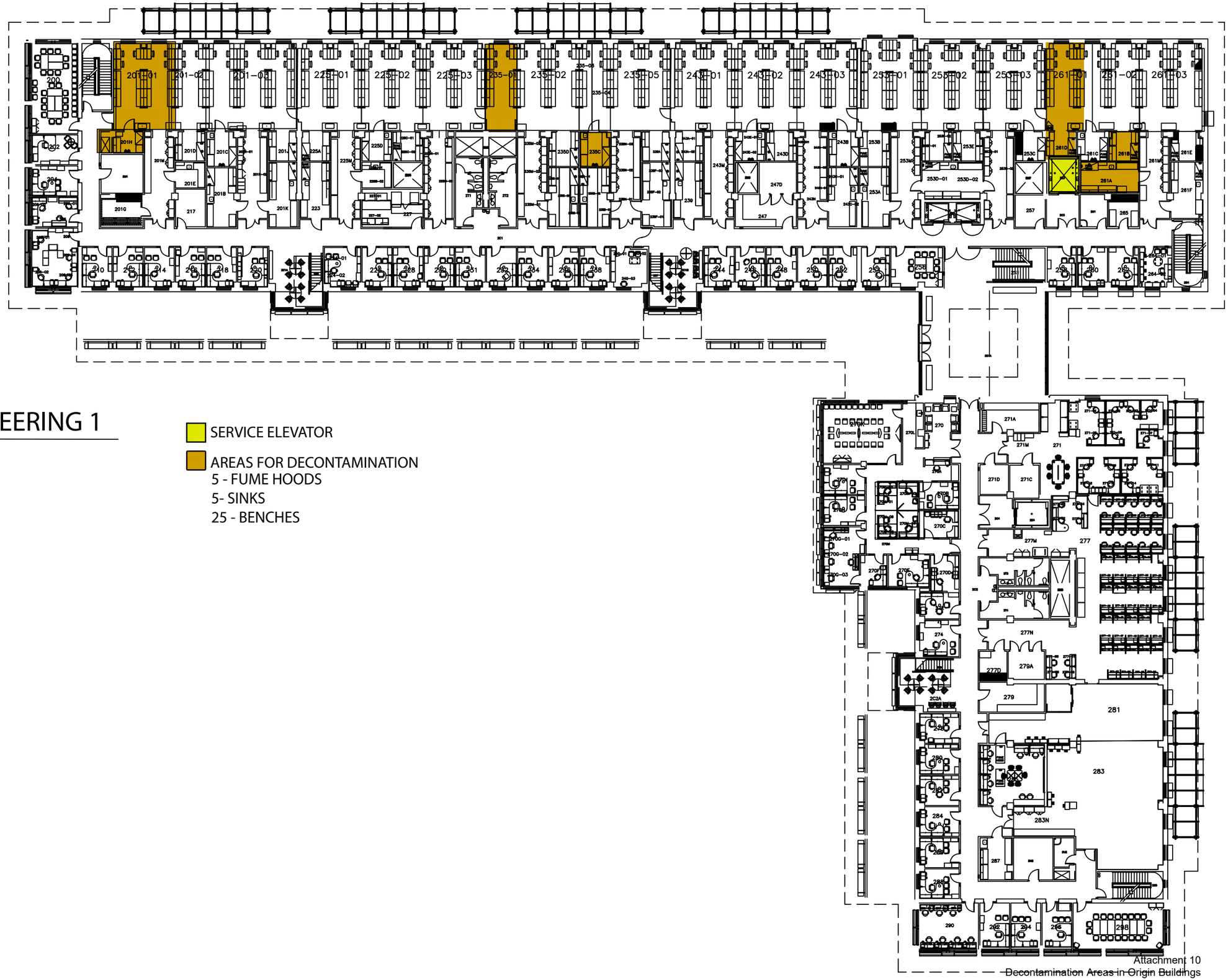
- SERVICE ELEVATOR
- AREAS FOR DECONTAMINATION
  - 0 - FUME HOODS
  - 3 - SINKS
  - 5 - BENCHES
- AREA FOR RADIOACTIVE DECONTAMINATION
  - 207 SQ FT

SCIENCE AND ENGINEERING 1

LEVEL 2

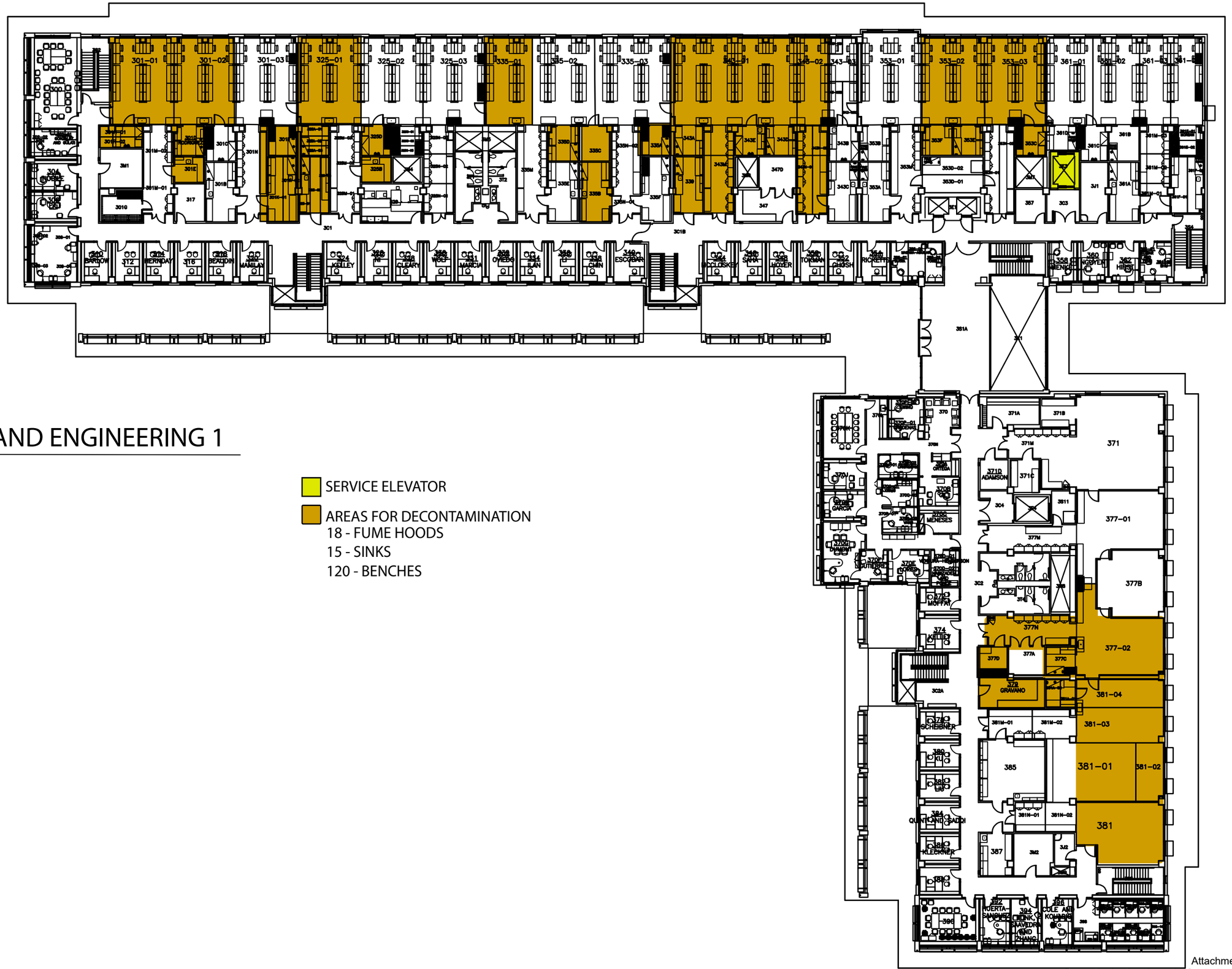
SERVICE ELEVATOR

AREAS FOR DECONTAMINATION
5 - FUME HOODS
5- SINKS
25 - BENCHES



Attachment 10
Decontamination Areas in Origin Buildings

SCIENCE AND ENGINEERING 1
LEVEL 3



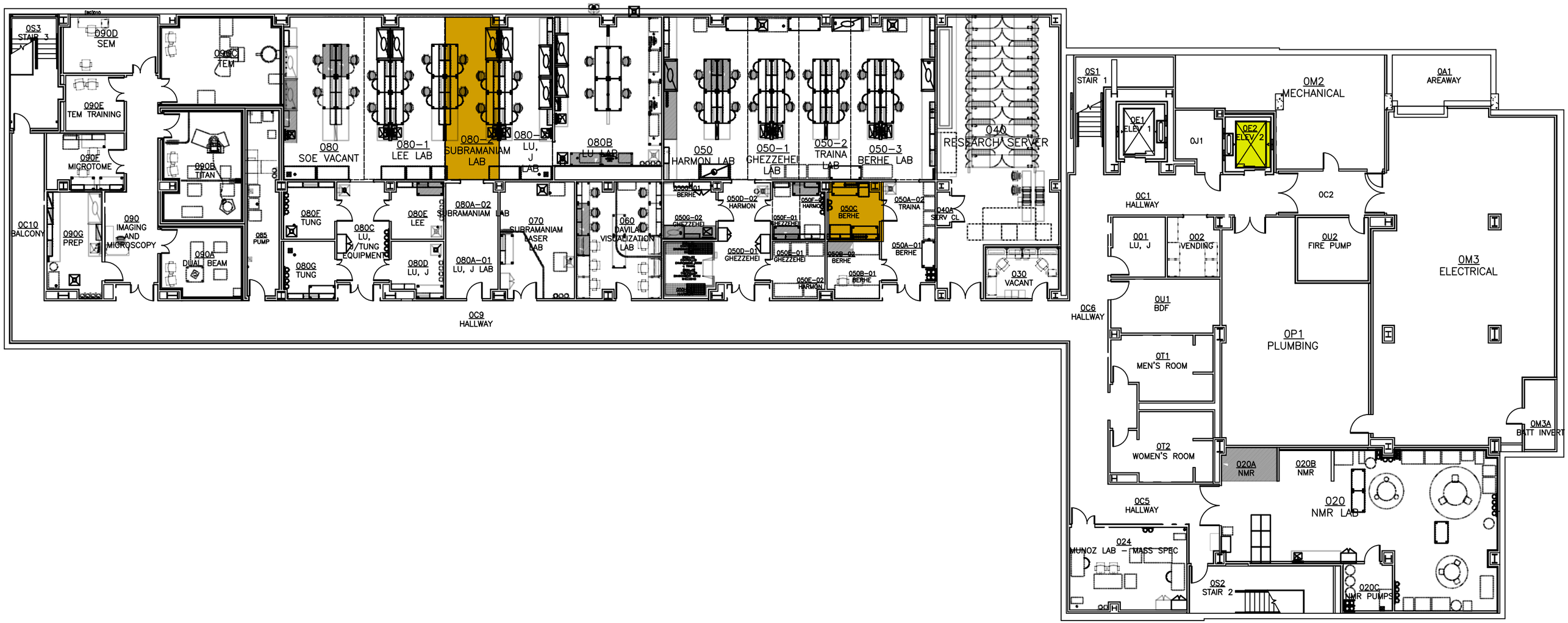
Attachment 10
Decontamination Areas in Origin Buildings

SCIENCE AND ENGINEERING 2
LEVEL B

SERVICE ELEVATOR

AREAS FOR DECONTAMINATION

1 - FUME HOOD
1- SINK
8 - BENCHES



Attachment 10
Decontamination Areas in Origin Buildings

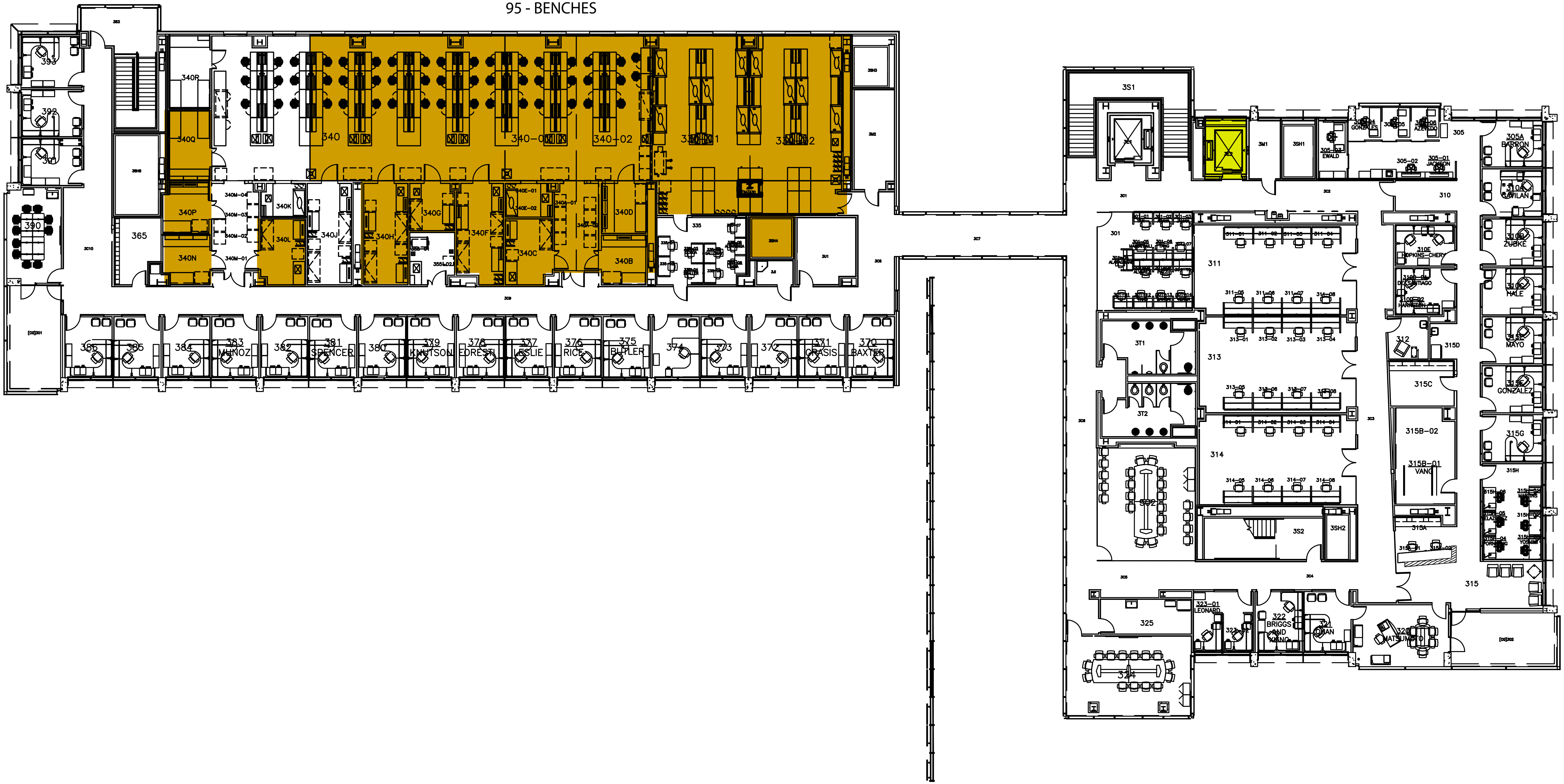
SCIENCE AND ENGINEERING 2

LEVEL 3

SERVICE ELEVATOR

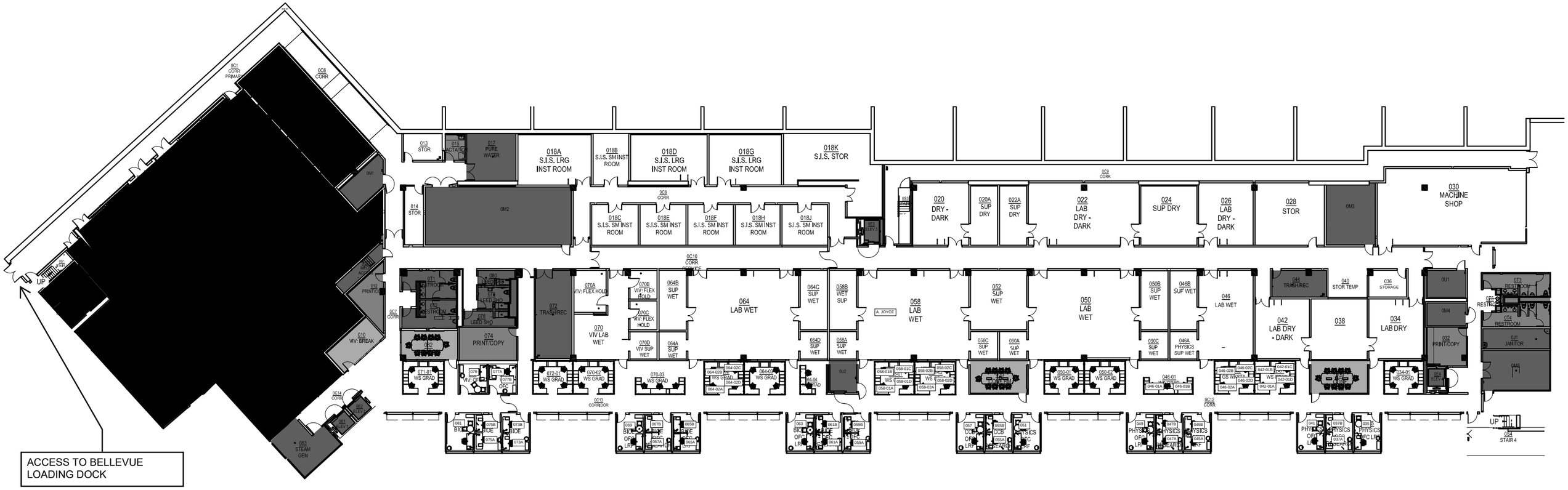
AREAS FOR DECONTAMINATION

6 - FUME HOODS
18 - SINKS
95 - BENCHES



BUILDING 3A - BIOMEDICAL SCIENCES & PHYSICS

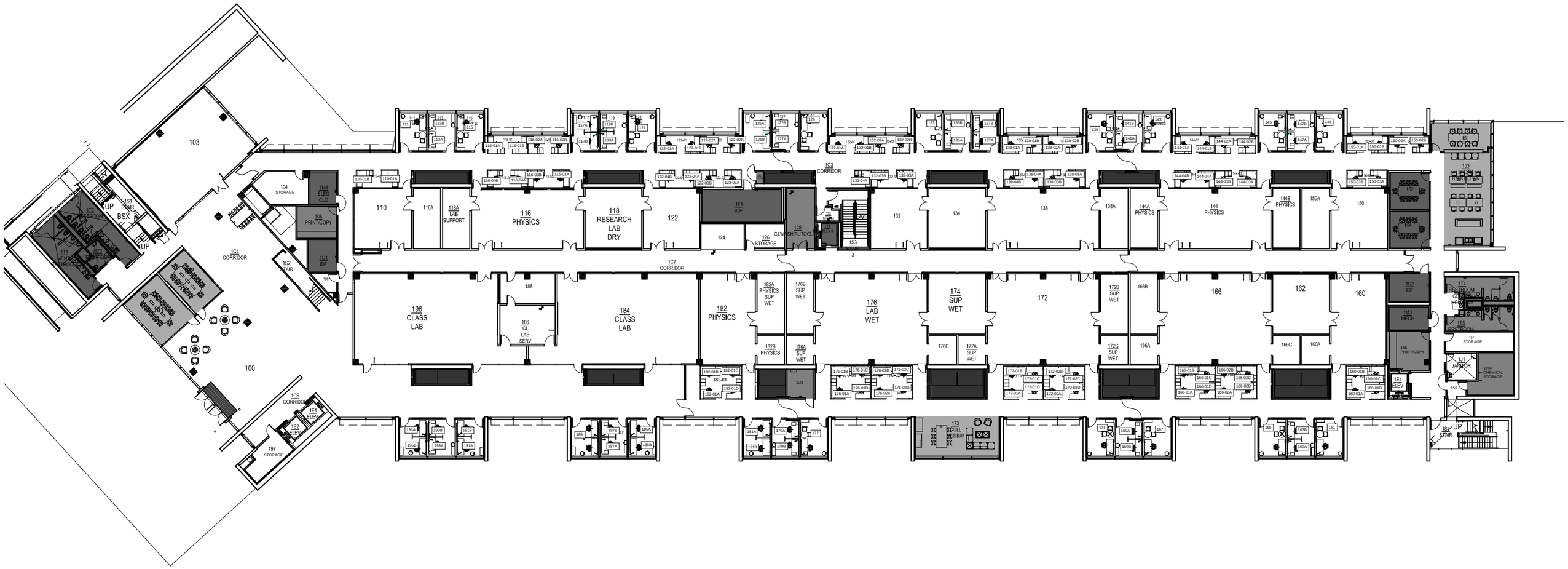
LEVEL B



ATTACHMENT 11
BSP DESTINATION FLOOR PLANS

20200403_AC

BUILDING 3A - BIOMEDICAL SCIENCES & PHYSICS
LEVEL 1



ATTACHMENT 11
BSP DESTINATION FLOOR PLANS

20200403_AC

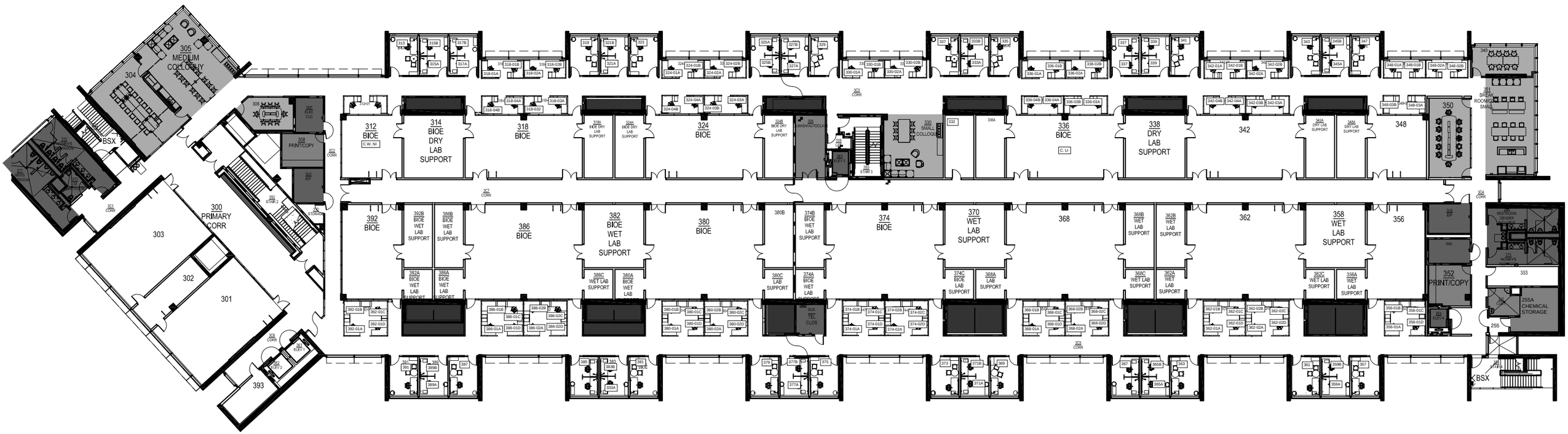
BUILDING 3A - BIOMEDICAL SCIENCES & PHYSICS

LEVEL 2

ATTACHMENT 11
BSP DESTINATION FLOOR PLANS

20200403_AC

BUILDING 3A - BIOMEDICAL SCIENCES & PHYSICS
LEVEL 3

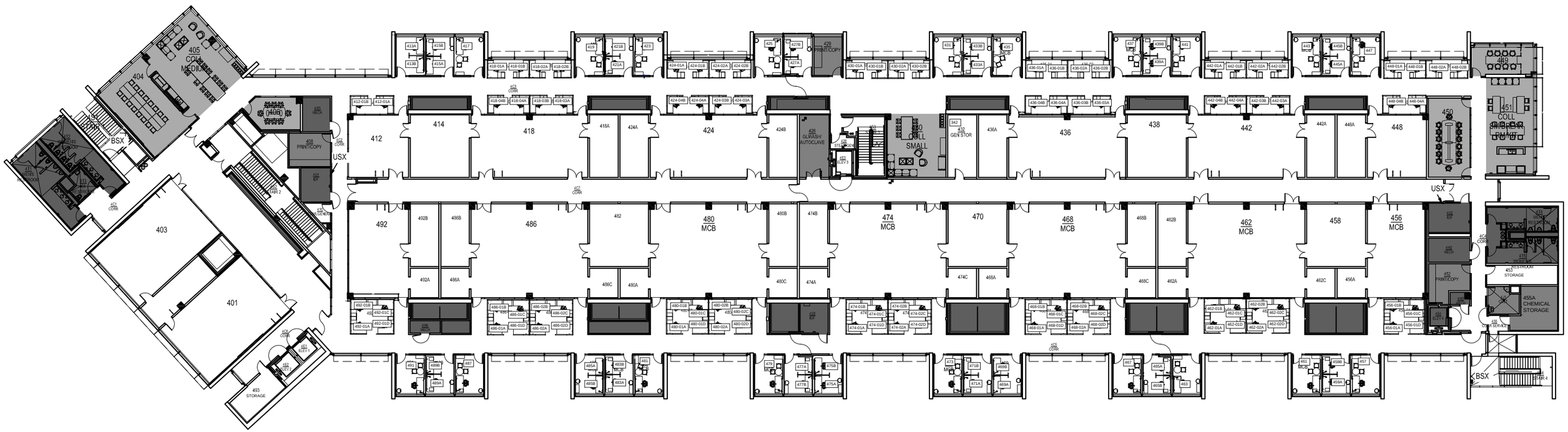


ATTACHMENT 11
BSP DESTINATION FLOOR PLANS

20200403_AC

BUILDING 3A - BIOMEDICAL SCIENCES & PHYSICS

LEVEL 4



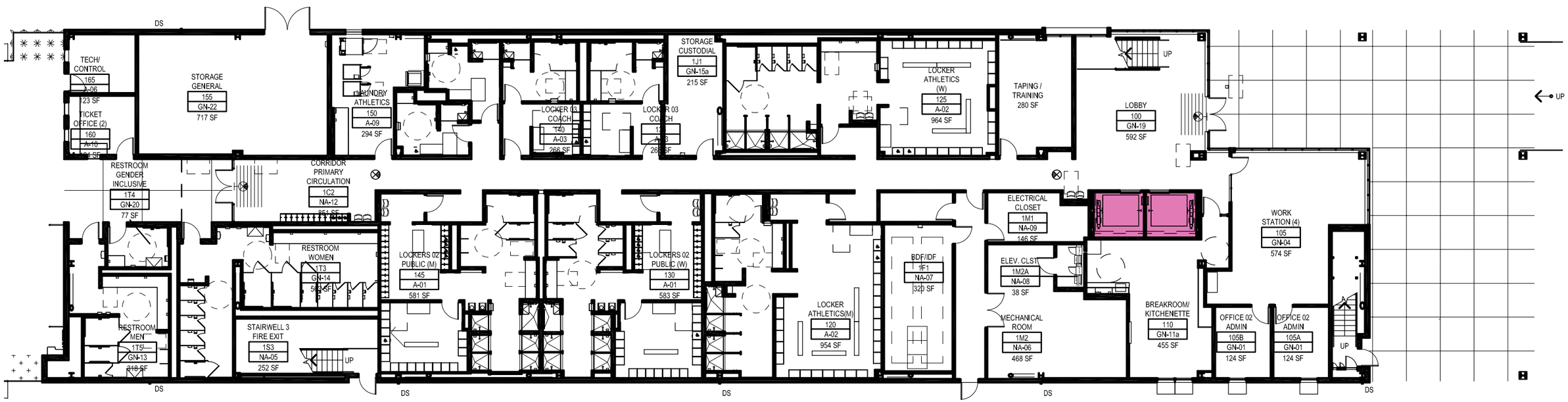
ATTACHMENT 11
BSP DESTINATION FLOOR PLANS

20200403_AC

HEALTH AND ATHLETIC CENTER

LEVEL 01

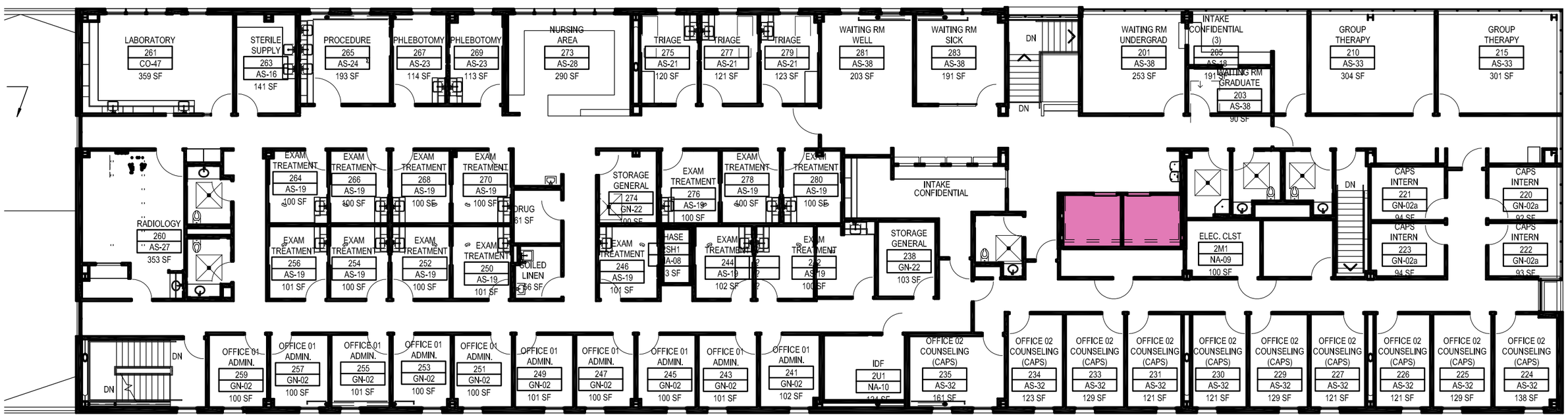
ELEVATOR



Attachment 12
HAC Destination Floor Plans

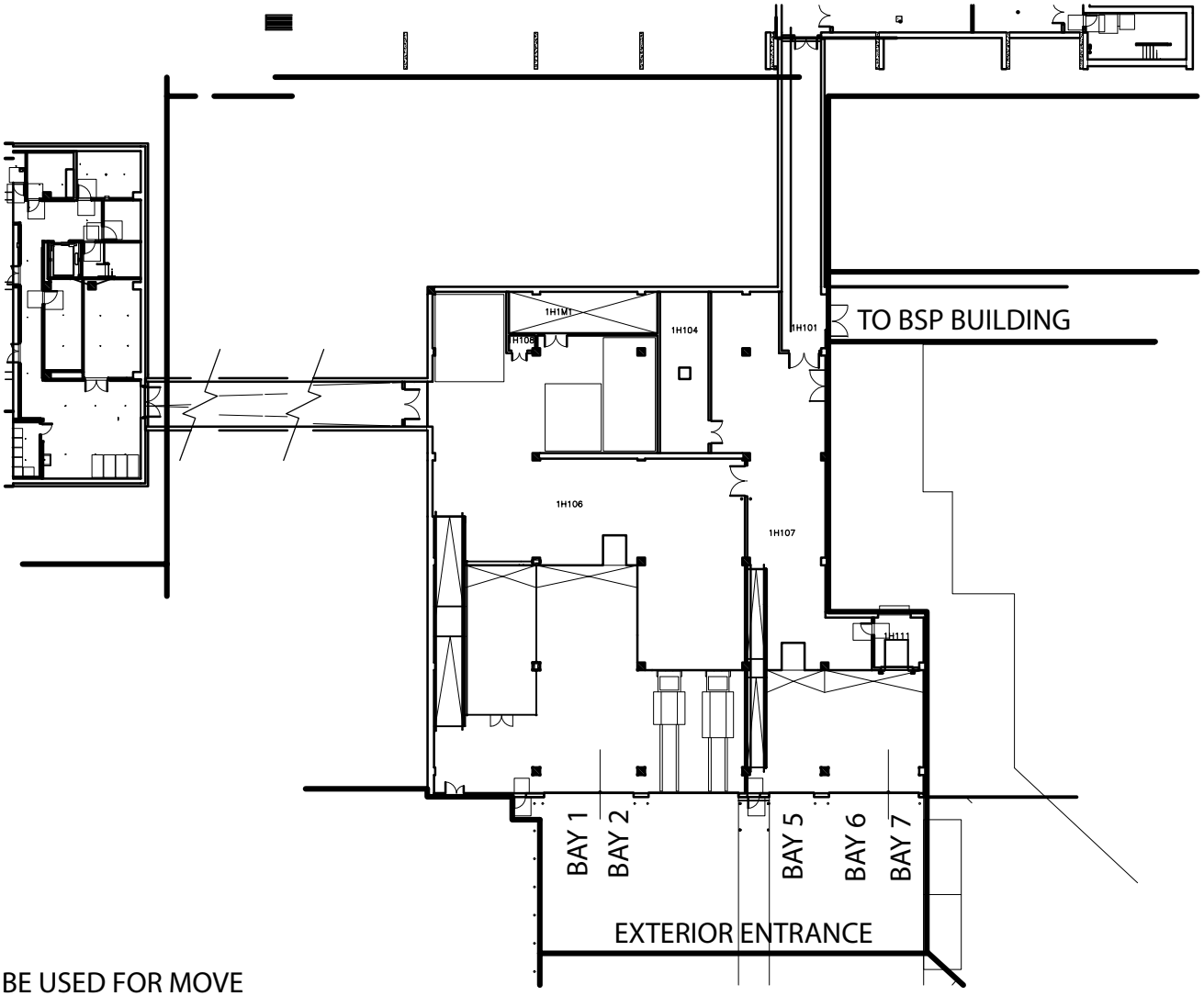
HEALTH AND ATHLETIC CENTER
LEVEL 02

ELEVATOR



BELLEVUE LOADING DOCK

LEVEL B

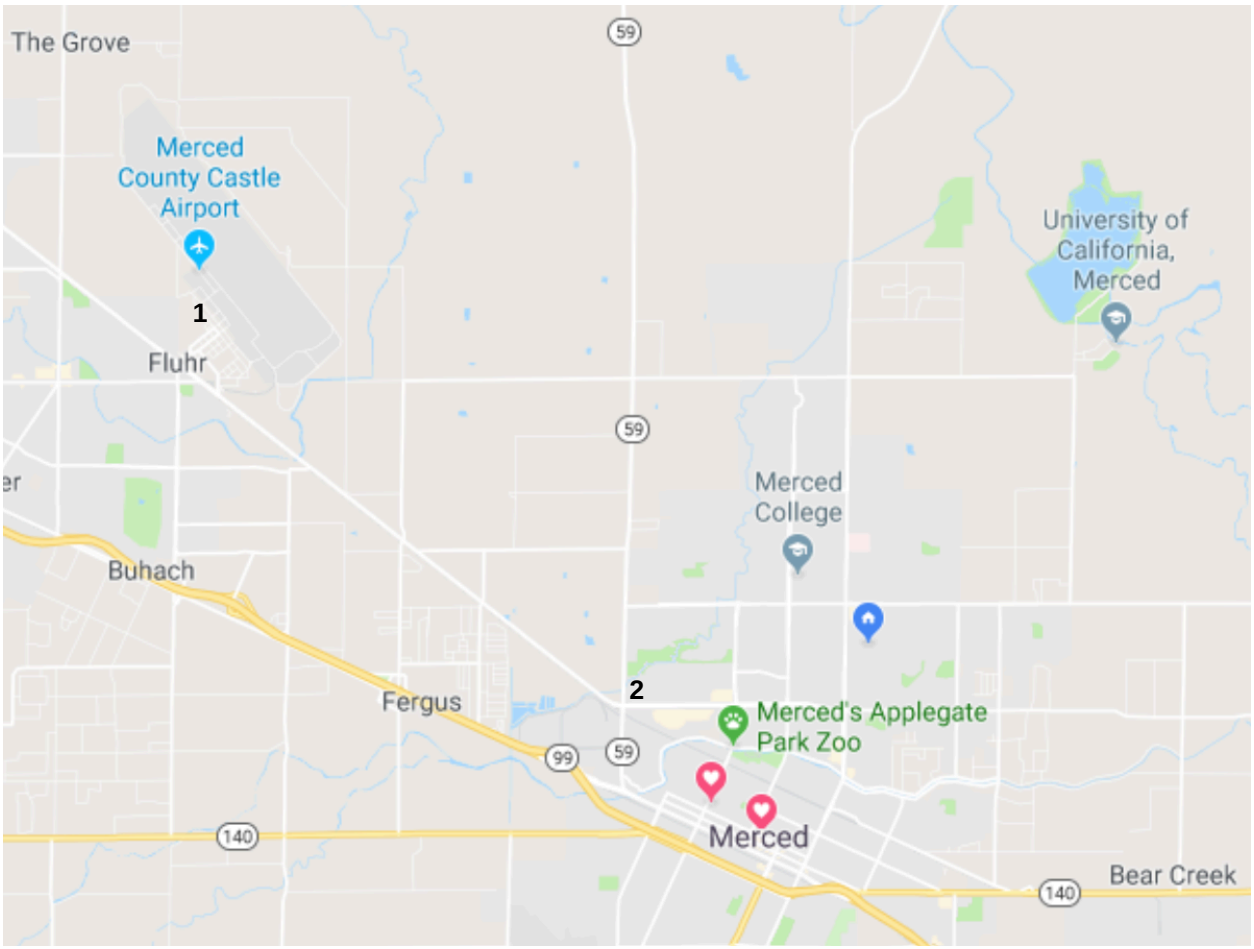


BAY 5 & 6 MAY BE USED FOR MOVE
BAY 1 AND 2 MAY BE USED AFTER
10AM WITH PRIOR COORDINATION
EXCEPT BY CHEMICAL MOVER.

ATTACHMENT 14
CAMPUS LOCATIONS MAP

Other Locations Map

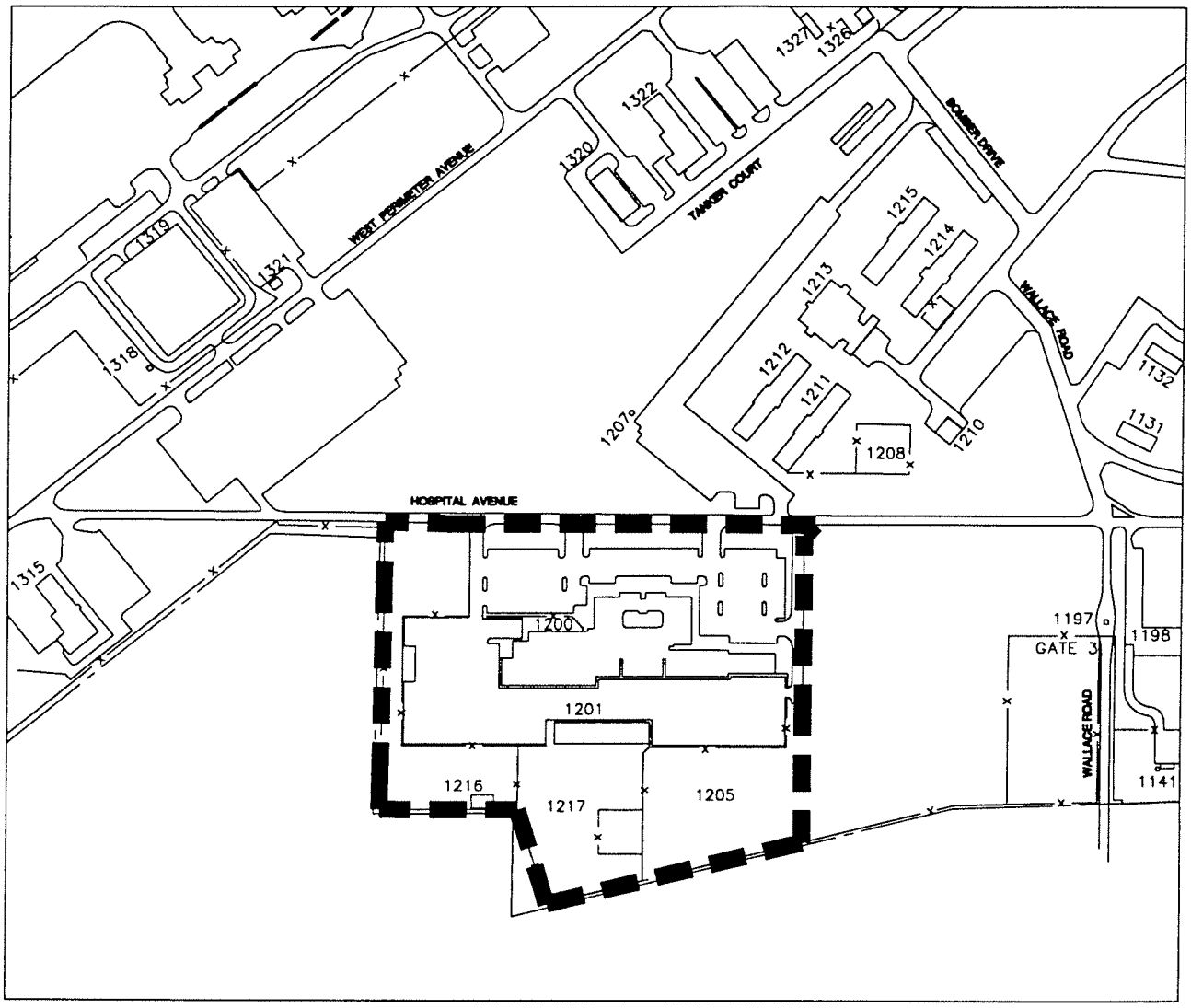
1. Castle Research Facilities Building 1200, 4225 N. Hospital Road, Atwater, CA 95340
2. Olive Warehouse, 1985 Olive Avenue, Merced CA 95340



Each number shown on map identifies the address noted above

4225 HOSPITAL ROAD, ATWATER, CA 95301

EXHIBIT 1



REGENTS OF THE UNIVERSITY OF CALIFORNIA

4225 HOSPITAL ROAD, ATWATER, CA 95301

NORTH

SCALE: 1"=400'

1985 W. Olive Avenue, Merced

June 8, 2020

ATTACHMENT 15
OTHER LOCATIONS MAP

SECTION 01 23 00
ALTERNATES

PART 1 - GENERAL

1.1 ALTERNATES REQUIREMENTS

A. This Section identifies each Alternate and describes basic changes to the Work only when that Alternate is made a part of the Work by specific provision in the Agreement.

B. The Lump Sum Base Bid and Alternates shall include the costs of all supporting elements required, so that the combination of the Lump Sum Base Bid and any Alternates shall be complete. The scope of Work for all Alternates shall be in accordance with applicable Drawings and Specifications.

C. Except as otherwise specifically provided by University, the Work described in Alternates shall be completed with no increase in Contract Time.

D. This Section includes only the non-technical descriptions of the Alternates. Refer to the specific Sections of Divisions 2-33 of the Specifications for technical descriptions of the Alternates.

E. Coordinate related Work and modify surrounding Work as required to properly and completely integrate the Alternates into the Work.

F. The Bidder shall quote prices for the Alternates listed below in the space provided therefore on the Bid Form. The Bidder shall be responsible for determining exact quantities of materials involved with the Alternates. Work for the Alternates shall be in strict accordance with the Specifications and Drawings.

1.2 BIDS REQUIRED

Base Bid: The Base Bid consists of all items indicated and/or specified in the Drawings, Specifications and/or Bid Form. The costs for Additive Alternates will be added to the Base Bid, and the costs for Deductive Alternates will be subtracted from the Base Bid.

1.3 <u>GENERAL MOVER – SCOPE OF WORK 01 11.00.01 ALTERNATES</u>

A. Alternate No. 1 for GENERAL MOVER: DEDUCTIVE ALTERNATE - University to pack and label, and unpack at destination for Biomedical Science and Physics building.

1. University elects to prep, pack, and label at origin site and unpack at destination all items identified in Scope of Work 01 11 00.01. Bidder shall provide credit of 2.0.4.c.
2. Bidder shall relocate, transport, unload, and secure all items labeled by Department Personnel. All packing material consistent with 2.05 shall be provided to Department Personnel to pack all items identified in 2.0.5 Move materials shall be provided to each

lab within 48 hours of notice of award. If additional packing material is requested, bidder is required to deliver within 24 hours of request.

B. **Alternate No. 2 for General Mover: ADDITIVE ALTERNATE – Exam room 5 and 6 at origin site is relocated to destination location at later date no later than January 20201.**

1. University elects to have the mover relocate all equipment and supplies in Exam Room 5 (Room 245) and Exam Room (Room 260) in Gallo Recreation and Wellness building. Mover shall secure, transport, unload and place all equipment at the destination at later date. Bidder shall provide the additional cost separate from the base scope.

1.4 REFRIGERATION AND INCUBATOR MOVER – SCOPE OF WORK 01 11.00.02 ALTERNATES

A. Alternate No. 1 for Refrigeration and Incubator Mover: ADDITIVE ALTERNATE – Trucks with integrated power.

1. Bidder provides trucks with integrated power for equipment to be plugged in during relocation. Bidder shall provide the additional cost separate from the base scope.

PART 2 - EXECUTION (NOT USED)

END OF SECTION 01 23 00

SECTION 01 26 13
REQUESTS FOR INFORMATION

PART 1 - GENERAL

1.1 SUMMARY

A. This section contains the procedures to be followed by the Contractor for submitting requests for clarification or additional information.

1.2 PROCEDURES

A. Notification by the Contractor:

1. Submit all requests for clarification and/or additional information in writing to the University's Representative using the Request for Information (RFI) form (Exhibit 17).
2. RFI's not completely and correctly filled out by the Contractor will not be answered. Impacts to the Project arising from the Contractor's failure to properly submit RFI's are the Contractor's sole responsibility.
3. Number RFI's sequentially. Submit a new RFI for each new question. Follow RFI number with sequential alphabetical suffix as necessary for each resubmission. For example, the first RFI shall be '001.' The second RFI shall be '002.' The first resubmittal of RFI 002 shall be '002A.'

B. Limit each RFI to one subject and one subject only. RFI's addressing more than one subject will not be answered.

C. Submit RFI's if one of the following conditions occur:

1. Contractor discovers an unforeseen condition or circumstance that is not described in the Contract Documents.
2. Contractor discovers an apparent conflict or discrepancy between portions of the Contract Documents that appears to be inconsistent or is not reasonably inferred from the intent of the Contract Documents.
3. Contractor discovers what appears to be an omission from the Contract Documents that cannot be reasonably inferred from the intent of the Contract Documents.

D. Non Compliant RFI's

1. RFI's will not be recognized or accepted if, in the opinion of the University's Representative, one of the following conditions exist:
   a. The Contractor submits the RFI as a request for substitution.
   b. The Contractor submits the RFI as a submittal.
   c. The Contractor submits the RFI under the pretense of a Contract Documents discrepancy or omission without thorough review of the Documents.
   d. The Contractor submits the RFI in manner that suggest that specific portions of the Contract Documents are assumed to be excluded or by taking an isolated portion of the Contract Documents in part rather than whole.
   e. The Contractor submits an RFI in an untimely manner without proper coordination and scheduling of Work or related trades.

2. If over 10% of the RFI's received from the Contractor are found to fall into these categories, the Contractor will be back charged the cost to the University of the additional effort required to respond to these inappropriate questions. Such back charges may include expenses incurred by the University's Design Professional as determined by the University's Representative. Said back charges will be deducted from the Contract Sum.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 Requests for Information

A. Contractor shall ask for any clarification or request for information immediately upon discovery. Contractor shall submit RFI's in a reasonable time frame so as not to affect the project schedule while allowing the full response time described below. RFI's shall include:

1. Specification Section or Drawing Number and Detail impacted.
2. Address impacts to schedule and cost.
3. Suggest possible solutions to fit field conditions, if appropriate.

B. Response Time:

1. The University's Representative, whose decision will be final and conclusive, shall resolve such questions and issue instructions to the Contractor within a reasonable time frame. In most cases, RFI's will receive a response within 14 days. In some cases, this time frame may need to be lengthened for complex issues, or shortened for emergency situations, as mutually agreed in writing between the University's Representative and the Contractor.
2. Should the Contractor proceed with the Work affected before receipt of a response from the University's Representative, any portion of the Work which is not done in accordance with the University's Representative's interpretations, clarifications, instructions, or decisions is subject to removal or replacement and the General Contractor shall be responsible for all resultant losses.

C. Failure to Agree: In the event of failure to agree as to the scope of the Contract requirements, the Contractor shall follow procedures set forth in the General Conditions.

END OF SECTION 01 26 13

SECTION 01 31 00
PROJECT COORDINATION
AS IT APPLIES

PART 1 - GENERAL

1.1 COORDINATION REQUIREMENTS

A. Contractor shall coordinate the Work and shall not delegate responsibility for coordination to any Subcontractor.

1. Contractor shall anticipate the interrelationship of all Subcontractors and their relationship with the Work.
2. CM/ Contractor shall resolve differences or disputes between Subcontractors concerning coordination, interference, or extent of the Work between Sections.
3. Contractor shall coordinate the Work of Subcontractors so that portions of the Work are performed in a manner that minimizes interference with the progress of the Work.
4. Contractor shall not obstruct spaces and installations that are required to be clear by Applicable Code Requirements.
5. Contractor shall not cover any piping, wiring, ducts, or other installations until they have been inspected and approved and required certificates of inspection issued.
6. Contractor shall remove and replace all Work that does not comply with the Contract Documents. Repair or replace any other Work or property damaged by these operations with no adjustment of Contract Sum.
7. Contractor shall coordinate all portions of the Work requiring careful coordination in order to fit in space available. Before commencing such portions of the Work, prepare supplementary drawings for review by the University's Representative.
8. CM/ Contractor shall ensure that anchorage, blocking, joining, and other detailing are provided as required.

B. Electrical and Mechanical Coordination

1. Routing and Coordination of underground Site Utilities
   a. Contractor shall schedule and coordinate the Work of all site water, sanitary sewer, storm drain, electrical, telecommunications, hydronic, and other utilities Subcontractors having installation responsibilities within the limits of work, with respect to the sequence of Work and the allocation of space among the trades. The planned sequence of Work in such areas and any proposed departure from it affecting or potentially affecting coordination of the overall installation shall be brought promptly, in writing, to the attention of the University's Representative.

   b. As soon as practical and in no case starting later than 15 days after the Notice to Proceed, the Contractor and above named Subcontractors, shall participate in a meeting for the preparation of a coordinated 3-D Building Information Model (BIM) of the demonstrating how these all site water, sanitary sewer, storm drain, electrical, telecommunications, hydronic, and other utilities will fit within the limits of work. These utilities will be fully coordinated one with the other as well

as with architectural and structural components of the building. This effort shall be in accordance with the Coordination Process Article of the Instructions to Bidders.

2. Routing and Coordination of overhead Mechanical, Fire Sprinkler, Plumbing and/or Electrical Installations
   a. Contractor shall schedule and coordinate the Work of all Mechanical, Fire Sprinkler, Plumbing, Electrical, Technology, Structural Steel, Metal Framing and Acoustical Ceiling Subcontractors having installation responsibilities within the ceiling space, with respect to the sequence of Work and the allocation of space among the trades. The planned sequence of Work in such areas and any proposed departure from it affecting or potentially affecting coordination of the overall installation shall be brought promptly, in writing, to the attention of the University's Representative.
   b. As soon as practical and in no case starting later than 15 days after the Notice to Proceed, the Contractor and above named Subcontractors, with assistance from the Drywall Subcontractor, shall participate in a meeting for the preparation of a coordinated 3-D Building Information Model (BIM) of the overhead mechanical, electrical, technology, fire protection and plumbing utilities demonstrating how these utilities will fit within the designated ceiling and vertical shaft spaces. These utilities will be fully coordinated one with the other as well as with architectural and structural components of the building. The Metal Framing and Drywall Subcontractor will provide input as to location of king studs and other wall and ceiling components which potentially impact placement of utilities. This effort shall be in accordance with the Coordination Process Article of the Instructions to Bidders. The Structural Steel Subcontractor shall provide a 3-D model of their work based on their approved shop drawings.
      1) BIM layout models of all equipment, ductwork and piping shall be prepared at not less than a 3/8 scale and in the most current version of 3D CAD or BIM software format compatible with NavisWorks software. A listing of compatible formats can be found at http://www.navisworks.com/en/support/formats. The Contractor shall establish standards governing model programs, coordinate system, communication and transfer protocols.
      2) The resulting 3D models shall accurately show sequencing, routing, sizes and elevations of all ductwork, piping, equipment, registers, grilles, diffusers and similar features, as well as locations of all valves, dampers, services thermostats and all other items requiring access and maintenance. These models shall also accurately show structural and architectural components, including but not limited to beams, columns, walls, ceilings, doors and their types. Additionally, the Contractor shall model any other major architectural and structural features as shown on their respective drawings or models. The design team's architectural and structural models will be available as supplementary information for coordination. The Contractor shall within 15 days after the Notice To Proceed commence and manage the initial

coordination with mechanical, plumbing, fire protection, security, telephone/data, audio/visual, casework, and electrical Subcontractors who shall then begin participating in regular BIM coordination meetings. The Subcontractors shall create their own models in adherence with the standards established in the initial BIM coordination meeting(s), including modeling accurate 3D routings, valves, access panels, switch panels, clearances, etc., as required. The updated models from all Subcontractors shall be uploaded via means established in the initial BIM coordination meeting on a weekly basis at minimum. The planned sequence of Work in such areas and any proposed departure from it affecting or potentially affecting coordination of the overall installation shall be brought promptly, in writing, to the attention of the University's Representative.

3) BIM Coordination Meetings: The Contractor shall then prepare a preliminary composite of all models, incorporating all the information and BIM models provided by the Subcontractors. The composite model will then be reviewed during a series of BIM coordination meetings as directed by the Contractor in coordination with the University's Representative, at which time all trades shall be represented by at least one project manager and one modeler in order to review and resolve any real or apparent inferences or conflicts. The Contractor shall also have an active teleconference at all BIM coordination meetings for inclusion of the design team and University staff. In preparing the composite model, minor changes in duct, pipe or conduit routings that do not affect the intended function may be made as required to avoid conflicts. Items may not be resized, exposed, concealed or relocated without the University's Representative's written approvals. No changes shall be made in any wall or chase locations, soffit or ceiling heights, door swings or locations, window or other openings, or other features affecting the function or esthetic effect of the building. If conflicts or interferences cannot be satisfactorily resolved, the University's Representative shall be notified and their decision obtained. The composite BIM model need not be submitted as a whole, but they shall be submitted, in all cases, in ample time to avoid construction delay. The coordination model may lack complete data in certain instances pending receipt of shop drawings or fabrication models, but sufficient space shall be allotted for those items affected. When the final information is received, such data shall be promptly inserted in the composite model. All changes in the scope of work due to revisions formally issued and approved shall be shown on the composite model. All work on the coordination composite drawings shall be performed by competent modelers and shall be clear and fully usable. The University's Representative shall determine the acceptability of the BIM models.

4) Composite BIM Model: After all conflicts, interferences and associated issues are resolved, the Contractor shall then develop a

final composite model showing the agreed upon routing, layout and placement of all ductwork, conveyers, piping, conduit, valves, panels, lighting fixtures and all other major mechanical and electrical installations. In preparing the final composite model, any supplementary drawings shall be created as well to accurately communicate the as-built condition. Particular attention shall be given to the locations, size and clearances of all equipment items, shafts, soffits, ceilings, wall spaces and similar features. These final composite models and drawings shall then be signed off by each of the Subcontractors, indicating their awareness and agreement with the indicated routings, layouts and their interrelationship with the other work and systems of all other Subcontractors. After sign-off, no unauthorized deviations will be permitted and if made without written agreement of the University's Representative, this unauthorized work will be removed and corrected by the Contractor at no additional cost to the University. Furthermore, no extra compensation will be paid or additional time allowed relating to any system or component installed without proper coordination between all the trades involved. If any improperly coordinated work or work installed that is not in accordance with the approved coordinated composite model requires additional work by other trades, the costs of all such additional work shall be borne by the Contractor.

5) Final Composite BIM Model and Drawings: After the final composite BIM model and associated drawings have been agreed upon and signed by the Contractor and all Subcontractors, the Contractor shall reproduce copies and distribute the BIM model/drawings for reference purposes to each of the participating Subcontractors and the University's Representative. Other Subcontractors responsible for supplementary composite drawings as previously indicated herein shall provide their information for the Contractor's distribution. The University's Representative, Contractor and each Subcontractor shall retain the record copies of final composite BIM models and drawings as working references. All shop drawings and fabrication models, prior to their submittal to the University and their design consultants, shall be compared with the record composite model/drawings and developed accordingly by the responsible Subcontractor. The Contractor with the participation of Subcontractors shall be responsible for the up-to-date maintenance of their record copies of the composite model and to keep one copy available at the site. Any such revision to the composite model(s), which may become necessary during the progression of work shall be communicated to the Contractor and shall be accurately recorded during construction and in a record model and associated drawings at the completion of work by the Contractor. The University, the Contractor and each Subcontractor shall utilize the composite BIM model and any subsequent revisions in the development of their as-built model and drawings. The Final Composite BIM Model and Drawings

are to be submitted as part of the Closeout Record Documents.

c. Should unavoidable conflicts be encountered during the preparation or review of the Shop Drawings, or during construction, they shall be promptly brought to the attention of the University's Representative, in writing, for resolution.

d. Where the Drawings are diagrammatic, showing only the general arrangement of the systems, Contractor shall have responsibility for the fitting of materials and equipment to other parts of the equipment and structure, and to make adjustments as necessary or required to resolve space problems, preserve service room, and avoid architectural and structural elements and the Work of other trades. Contractor may be required to identify certain areas to relocate installations within the spaces depicted on the Drawings, e.g., ductwork may be shifted within the space shown to accommodate other systems. Such functional relocations shall not be deemed a change to the requirements of the Contract. In the event a major re-routing of a system appears necessary, Contractor shall prepare and submit for approval, Shop Drawings of the proposed rearrangement.

e. Because of the diagrammatic nature and small scale of the Drawings, all necessary offsets, adjustments, and transitions required for the complete installation are not shown. Contractor shall carefully investigate the structural and finish conditions affecting all the Work and shall arrange such Work accordingly, furnishing such fittings, equipment, valves, accessories, etc., as may be required to meet such conditions, at no additional cost to the University.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 31 00

SECTION 01 31 19
PROJECT MEETINGS

AS NECESSARY

PART 1 - GENERAL

1.1 CONTRACTOR PRECONSTRUCTION CONFERENCE(S)

A. Prior to commencement of Work, a preconstruction conference will be conducted by the University's Representative to discuss procedures that are to be followed during performance of the Work.

B. Location: As designated by University's Representative. For those meetings determined to be at the Contractor Job Office, Contractor shall provide video conferencing for those attendees that are offsite.

1. Video Conferencing is defined as the ability to present documents that will be reviewed during a meeting to offsite attendees such as through WebEx, Lync, or GoTo Meeting. Contractor shall submit to the University what service they intend on utilizing to provide video conferencing no later than fifteen days (15) after Notice to Proceed. Additionally, any requested training on utilization of the video conferencing service shall be provided by Contractor.

C. Attending shall be:

1. University's Representative.
2. Contractor's Project Manager
3. Contractor's Project Site Superintendent.
4. Subcontractors, as appropriate or as requested by the University's Representative.
5. Others as appropriate or as requested by the University's Representative.

1.2 BILLING MEETINGS

A. Monthly billing meeting shall be conducted by University's Representative each month prior to submittal of the Application For Payment (Exhibit 4).

B. Location: As designated by University's Representative.

C. Attending shall be:

1. University's Representative.
2. University's Inspection Team.
3. Others as appropriate or as requested by the University's Representative.

1.3 OAC (OWNER, ARCHITECT, CONSTRUCTION MANAGER) PROGRESS MEETINGS

A. Weekly progress meetings will be held to discuss and resolve field problems. The University's Representative shall conduct these meetings.

B. Location: At University's Representative job trailer and via conference call.

C. Attending shall be:

1. University's Representative.
2. University's Consultants (optional)
3. University's Design Professional and Design Professional's Consultants as appropriate.
4. Others as appropriate or as requested by the University's Representative.

1.4 PREPATORY MEETINGS AND PRE-INSTALLATION CONFERENCES

A. The University's Representative will conduct a pre-installation conference at the site before each construction activity that requires coordination with other construction or when required in technical Specification Section.

B. Attendance will be required of parties directly affecting, or affected by, or involved in the installation and its coordination or integration with other materials and installations that have preceded or will follow the particular item of work or activity under consideration. Parties attending the conference shall be qualified and authorized to act on behalf of entity each represents.

C. Conference Schedule: Schedule conference to assure a sufficient amount of time prior to the scheduled work or activity under consideration so that any concerns, problems or disagreements can be resolved without delaying the Project. Notify the University's Representative 7 days in advance of meeting date.

D. The University's Representative will make physical arrangements for conferences, prepare agenda, preside at conferences, record minutes, and distribute copies within two days after conference to the University's Representative, the Project Inspector, conference participants and those affected by the decisions made at the conference. The University's Representative will record in the minute's significant discussions and agreements and disagreements.

E. Do not proceed with the work or activity if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of work and reconvene the conference at the earliest feasible date.

1.5 GUARANTEES, BONDS, WARRANTIES AND SERVICE/OPERATION AND MAINTENANCE CONTRACTS/DATA REVIEW MEETING

A. Eleven months following the date of Substantial Completion, a meeting shall be conducted by the University's Representative for the purpose of reviewing the guarantees, bonds, and service and maintenance contracts for materials and equipment. The Contractor shall take action as appropriate to implement repair or replacement of defective items, and to extend service and maintenance contracts as required.

B. Attending shall be:

1. University's Representative.
2. University's Consultants, as appropriate.
3. University's Design Professional and Design Professional's Consultants as appropriate.
4. Contractor superintendent(s) whom will be managing the project from on site.
5. Subcontractors, as appropriate or as requested by the University's Representative.
6. Others as appropriate or as requested by the University's Representative.

1.6 LEAN SCHEDULING AND PULL-PLANNING MEETINGS

A. The University Representative will be utilizing the "Last Planner System" to develop and implement a phased schedule that supplements and supports the Master Schedule included within the bid documents.

1. This will require time commitment from officers and supervisors of Contractor and all Subcontractors.
2. Contractor will be required to provide their input and commitment to the final schedule.
3. There will be a workshop held prior to the start of construction where the process will be explained in detail and the Master Project Schedule reviewed. Periodically "pull planning" sessions will be held to refine and expand on the detail in the Master Project Schedule. These sessions will require the contractor's superintendents and foreman to brainstorm and create detailed activities and resource requirements that support the Master Schedule.

B. Attending shall be:

1. University's Representative.
2. University's Consultants (optional).
3. University's Design Professional and Design Professional's Consultants as appropriate (optional)
4. Contractor superintendent(s) whom will be managing the project from on site.
5. Subcontractors, as appropriate or as requested by the University's Representative.
6. Others as appropriate or as requested by the University's Representative.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 31 19

SECTION 01 31 45
CONTRACT SCHEDULES

AS APPLIES

PART 1 - GENERAL

1.1 PRELIMINARY CONTRACT SCHEDULE

A. Within the time stated in the Notice of Selection as Apparent Lowest Responsible Bidder, Contractor shall submit a preliminary work plan or schedule of proposed operations to the University's Representative for approval. This schedule shall acknowledge the full contract duration as well as significant known contract constraints. In preparation of the plan or schedule, the Contractor shall make due allowance for and include the following:

1. Preparation of equipment and material submittals for review.
2. Procurement schedule.
3. Construction and installation schedule.
4. Major milestones.
5. Commissioning
6. Training

B. Form

1. Prepare the Preliminary Contract Schedule in sufficient detail to demonstrate preliminary planning for the Work and to represent a practical plan to complete the Work within the Contract Time.

1.2 PROJECT OR CONTRACT SCHEDULE

1. Within 30 working days of receipt of the Notice to Proceed, the Contractor shall submit a detailed project schedule. This Detailed Project Schedule shall incorporate the first 90 calendar days of contract Work as shown in the accepted Preliminary Contract Schedule.
2. Form:
   a. The Detailed Contract Schedule shall be CPM (Critical Path Method), using PDM (Precedence Diagram Method) method of scheduling, with time scaled diagrams (plots) and tabular charts.
   b. The Detailed Contract CPM Schedule when approved by the University, shall serve as the contract schedule for the project.
   c. The Detailed Contract CPM Schedule duration shall conform to the full contract duration; and may include one or more float activities, to show full accounting of the Contract Time.
   d. Prepare the Detailed Contract Schedule in sufficient detail to demonstrate serious planning for the Work and to represent a practical plan to complete the Work within the Contract Time.

e. Identify all holidays, UC Merced finals weeks and non-working days.

f. Critical Work activities are defined as Work activities that, if delayed or extended, will delay the scheduled completion of 1 or more of the milestones specified in this Section or the scheduled completion of the Work, or both. All other Work activities are defined as non-critical Work activities and are considered to have float.

g. Float is defined as the time that a non-critical Work activity can be delayed or extended without delaying the scheduled completion of milestones specified in this Section or the scheduled completion of the Work, or both. Neither the General Contractor nor the University shall have an exclusive right to the use of float. The party using float shall document the effect on the updated Contract Schedule.

B. Content:

1. The Contract Schedule shall identify all Work activities in correct sequence for the completion of the Work. Work activities shall include the following:

   a. Major Contractor-furnished equipment, materials, and building elements, and scheduled activities requiring submittals or University's Representative's prior approval.

      1) Show dates for the submission, review, and approval of each such submittal. Dates shall be shown for the procurement, fabrication, delivery, and installation of major equipment, materials, and building elements, and for scheduled activities designated by the University.

      2) A minimum of 18 days shall be allotted for University's Representative to review each submittal.

2. Date mobilization complete.

3. System test dates.

4. Scheduled overtime Work if required by Contract Documents.

5. Dates Contractor requests designated workspaces, storage area, access, and other facilities to be provided by the University.

6. Dates Contractor requests orders and decisions from the University on designated items.

7. Dates Contractor requests University-furnished equipment.

8. Dates Contractor requests University-furnished utilities.

9. Dates Contractor requests road closures.

10. Mock-up construction and reviews

11. Connection and relocation of existing utilities including utility shutdowns.

12. Connecting to or penetrating existing structures.

13. Scheduled inspections as required by Codes, or as otherwise specified.

14. Milestone activities showing the point of substantial completion and final completion for each stage of the work, if designated in the Contract Documents, shall be included in The Preliminary Contract Schedule, Contract Schedule, and updates.

C. Presentation

1. Network Logic Diagrams
   a. The Contract Schedule shall include all construction and demolition activities, procurement of equipment components and major off-site fabricated items, through the entire construction phase, including pre-commissioning and job close out. Completion or "Punch List" work shall be included in the Contract Time.
   b. The Contract Schedule shall include a complete sequence of construction, in adequate detail for the planning and coordination of the Work. Unless approved by the University's Representative, there shall be no activities shown with durations in excess of 10 working days.
   c. The Contract Schedule shall be depicted in the form of precedence diagramming method (PDM) and shall be segregated or divided into bands of activities to reflect the General Contractor's scheduling areas and/or phasing of all construction and procurement activities.
   d. The PDM Diagram may be divided into a number of separate pages with suitable notation relating to the interface points from one page to the other. Individual pages shall not exceed 30 by 42 inches.
   e. Each activity shall be drawn so that the early start and early finish dates (or actual dates) are clearly indicated. The schedule plot also shall show the dates in tabular form.
   f. Each activity shall reflect at least the following information:
      1) Description of the work.
      2) Activity duration (in work days).
      3) Activity number.
      4) Activity relationship and float.
   g. All activities shall be shown, distinguishing critical
   h. Critical path activities, non-critical activities and milestone activities.
   i. For large schedules, a summary page shall be provided indicating the major milestones. The summary page shall include a legend that clearly identifies all symbols used within the CPM PDM Diagram. The summary page shall include an index listing all sheets within each sub-network.
   j. Graphic schedules shall be accompanied by electronic data files of the network, showing all activities, durations, dependencies and constraints. The files shall be provided USB, or CD-ROM, MS Windows format.
2. Tabular Computer Reports
   a. Accompanying the Construction Schedule, the Contractor shall submit various computer generated tabular reports as further described within this Section.
   b. As requested by the University's Representative, the Contractor will be required to submit additional Schedule and Cost Reports.

D. Computer System and Computer Generated Tabular Reports:
   1. The computer system selected shall be based on PRIMAVERA/PRIMAVISION®, or equal.
   2. The computer software employed by the University’s Representative will be capable of:
      a. Numeric or Alpha/Numeric activity numbering.

b. Activity coding's (to facilitate selecting groups or groupings of activities), with at least a 6-position alpha/numeric code.

c. Activity description field of at least 48 characters.

d. Reporting capabilities that allow sorting of a group or groupings of activities to generate various computer tabular reports and, establishing various planning schedules, as well as bar graphs.

e. Identifying any user assigned constraint; e.g., start not earlier than on the printout, adjacent to the activity.

f. Activity coding to allow graphic presentation in Gantt or PERT chart format.

3. Computer generated tabular reports:

a. Construction Schedule tabular reports shall include the activity number, activity description, duration, remaining duration, percent complete, early start date, early finish date, late start date, late finish date, total float, precedence relationships, lead/lag values and shall correlate work days to schedule dates. If the activity is completed or in progress, it shall have actual start or actual finish dates in lieu of the planned dates. The following sorts are required:

1) A Schedule of all activities, sorted by activity number, with the CPM Logic.

2) A Schedule of all activities, sorted by early start date without the CPM Logic.

3) A Schedule of all activities, sorted by total float without the CPM Logic.

4) When requested, a Schedule of all activities showing successors, predecessors and constraints.

b. Computer generated bar graphs of all activities. The following sorts are required:

1) Sorted by early start only.

2) Sorted by trade and/or responsibility, by early start.

c. Computer generated milestone schedule.

E. Submission

1. Upon receipt, the University's Representative shall review the, Detailed Contract Schedule; the University's Representative and the Contractor shall meet to jointly review the Schedule.

2. If the Schedule is found to be acceptable, the schedule will then be approved by the University's Representative as the Baseline Construction Schedule (Contract Schedule).

3. If the Contractor or the University's Representative determines the Contract Schedule to be in need of revision, within 10 working days thereafter, the Contractor shall revise and resubmit the Schedule to the University's Representative for approval, and, upon acceptance thereof, the Schedule shall be approved as the Baseline Construction Schedule (Contract Schedule).

F. Distribution:

1. University's Representative, 3 copies.

2. Contractor's Superintendent.

G. Updating:

1. Contractor shall update the Contract Schedule reflecting progress as of the end of the month and shall submit to the University's Representative for approval by no later than the tenth day of the following month. The updates shall be made as follows:

   a. The schedule update shall consist of updated CPM Schedule reports similar to the Baseline Construction Schedule. The CPM Schedule reports shall report progress based upon percent complete of actual time and remaining duration. If the General Contractor is behind schedule, or requests an extension to the Contract time, the Contract Schedule must be updated and submitted for review in support of the request. Contract Schedules must be updated any time that delays or a change in scheduled work occurs.

   b. The updated Contract Schedule shall reflect an up-to-date status of the contract work as completed, and materials furnished and in permanent place that qualify for payment.

   c. The updated Contract Schedule shall reflect the true effect of all processed change orders for the progress month. Subject to the provisions stated in the General Conditions, the General Contractor will be granted an extension to the contract time for the cumulative effect any approved change orders have had on the critical path; refer to General Conditions for the prerequisites for entitlement to a time extension.

   d. The updated Contract Schedule shall include all delays for the progress month. Subject to the provisions stated in the General Conditions, the Contractor will be granted an extension to the contract time for the cumulative effect any excusable delay(s) had on the critical path. No time extension will be granted for a claimed delay, unless the General Contractor can demonstrate to the satisfaction of the University's Representative the claimed delay affected the controlling operation or operations of the project. To receive an extension to the contract time, the following conditions must be met:

      1) Written notice has been provided, within 7 days of the delay.

      2) The written notice meets the notice requirements as outlined in the General Conditions.

      3) The Contractor has met the conditions of the General Conditions, all of which are prerequisites for entitlement of an extension of the contract time. The Contractor may submit, with the written notification or with the updated Construction Schedule, a CPM sub-net sketch that delineates the activities that were affected by the delay and the effect the delay had on the critical path. No time extension will be granted if the Contractor has not met the requirements of the General Conditions, or if the Contractor has not satisfactorily demonstrated that the claimed delay affected the critical path. Accordingly, all delays not incorporated into the updated Construction Schedule shall be deemed denied by the University.

2. At the updating, in addition to the above, the Contractor shall provide short interval schedule reports, which include:

   a. A bar graph spanning 1 month prior to the datum line to 2 months beyond the datum line.

   b. A " Four-Week Look Ahead" or predicated status report, covering the work within the next 4 week period, with activities sorted by early start.

3. The Contractor shall provide an Accompanying Narrative Report as needed to explain changes to the schedule, changes to the critical path and shall include a list of critical activities that require action from the University's Representative. The Accompanying Narrative Report shall include a listing of all delays that affected the critical path and shall clearly explain the impact the claimed delay(s) had on the critical path and shall include an account audit of days lost/gained.

4. Other conditions under which additional schedule updating will be required are as follows:

   a. When delay in completion of any work items or sequence of work items result in an indicated extension of the project completion.

   b. When delays in submittals or deliveries or work stoppages known to the General Contractor are encountered that make re-planning or rescheduling of the work necessary.

   c. When the schedule does not represent the actual prosecution and progress of the work.

5. Subject to all other requirements of the Contract Documents, nothing in these requirements shall be deemed to be a usurpation of the Contractor's authority and responsibility to plan and schedule the Work.

6. Distribute copies as required for initial distribution and monthly distribution.

1.3 RECOVERY PLAN

If Contractor is behind schedule by more than ten (10) calendar days for any stage of work, based on the updated Contract Schedule after incorporating all approved time extensions, Contractor shall submit to The University's Representative within five (5) working days of notification of such delay, a "Recovery Plan." The Recovery Plan shall be based on proposed revisions to Contract Schedule for the next sixty (60) calendar day period and shall show how Contractor intends to bring the work back on schedule. The Recovery Plan shall also include a written description of the measures that Contractor intends to take without additional cost to The University to regain schedule compliance. The Recovery Plan activities shall be identified according to their relationship to activities on the accepted schedule.

A. Should Contractor fail to submit and execute such Recovery Plan, The University shall have the option to require Contractor to employ any or all measures that The University deems fit to regain schedule compliance without additional cost to The University.

B. The Recovery Plan submitted by Contractor, upon acceptance by The University's Representative, shall be incorporated into the Contract Schedule during the next update.

C. Contractor will be required to submit a Recovery Plan for each update that indicates that the work progress is more than ten (10) calendar days behind schedule.

D. Should Contractor dispute the determination of The University's Representative regarding the status on Contract delay, such dispute shall not relieve the Contractor of the responsibility to comply with the requirements of this Section and other related Sections until the dispute is resolved per Article 4 of the General Conditions.

1.4 TIME CONTROL

A. Set up control procedures so that approved schedules are adhered to. Contractor's responsibility is to properly notify University's Representative of anticipated and actual time delays (refer to General Conditions).

B. Time extension requests shall be submitted in accordance with the provisions of General Conditions.

C. The General Contractor's time extension request shall be reviewed and evaluated by the University's Representative. A request for the extension shall be deemed denied if not responded to by University's Representative within 21 days.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 31 45

SECTION 01 35 00
SPECIAL REQUIREMENTS

PART 1 - GENERAL

1.1 DEFINITION OF PROJECT SITE

A. Contractor's use of the Project site for the Work and storage is restricted to the areas designated on the Drawings.

B. The Project site is located at University of California, Merced Campus, 5200 N. Lake Rd. Merced CA 95344.

1.2 WORK HOURS

A. No Work shall be done outside of standard Monday through Friday 7:00 A.M. to 5:00 P.M. working hours, on holidays or weekends unless prior written approval has been obtained from the University's Representative.

1.3 SITE INGRESS AND EGRESS

A. Contractor shall use the Project Access Road off of Lake Road at Ranchers Road and Loop Rd from Campus to Building 2A as shown on the Site Logistics Plan.

1.4 SITE RESTRICTIONS

A. OUT OF BOUNDS AREAS**:** Areas outside the project limits as identified on the Topographic Survey in the Contract Documents.

1. Little Lake
   a. The Contractor shall not permit any personnel or construction vehicle to approach within 100 feet of Little Lake except with the prior written approval of the University's Representative.
   b. The Contractor shall ensure that no personnel shall use the Lake to fish, swim or for other non-construction activities.
   c. The Contractor shall ensure that no run-off shall enter the Lake except as indicated on the Drawings.
   d. The Contractor shall ensure that no construction garbage, detritus, waste or debris (whether solid or liquid) of any type shall enter the Lake.

2. Merced Irrigation District[2]
   a. The Contractor shall not permit any personnel or construction vehicle to approach within 50 feet of the Fairfield Canal and the penstock between Le Grand and Fairfield Canals except with the prior written approval of the University's Representative.
   b. The Contractor shall ensure that no personnel shall use the Fairfield Canal or the penstock between Le Grand and Fairfield Canals to fish, swim or for other non-construction activities.

c. The Contractor shall ensure that no run-off shall enter the Fairfield Canal or the penstock between Le Grand and Fairfield Canals except as indicated in the Contract documents.

d. The Contractor shall ensure that no construction garbage, detritus, waste or debris (whether solid or liquid) of any type shall enter the Fairfield Canal or the penstock between Le Grand and Fairfield Canals.

1.5 ROADS

A. Existing roads and existing or planned construction roads shall be used for construction access within the limits defined herein.

B. Contractor shall take all necessary precaution to insure the safety of University Students, Faculty and Visitors at all times.

C. Contractor must obtain prior written approval from the University's Representative to block streets or parking areas at any time.

D. The Contractor shall clear all roads (including Lake Road), parking areas and sidewalks affected by the Contractor's operations. This will include the immediate removal of dust, dirt, or any other debris or detritus so that roads and sidewalks are maintained in a safe and usable condition.

1.6 PARKING

A. All parking locations and arrangements must be coordinated and approved by University's Transportation and Parking Services (TAPS) prior to the start of work.

B. A parking permit and fee to utilize the University of California, Merced (UCM) parking facilities will be required for all areas. Parking permits can be purchased on a monthly basis at a fee of $30 per month per vehicle. Contact Transportation and Parking Services (TAPS) at (209) 228-4548 or visit the Facilities modular behind Central Plant for information on obtaining permits. A valid permit must be displayed at all times by all vehicles while parking on campus, whether in fenced construction areas or not.

C. The Contractor shall not permit any personnel to park within the construction site or construction yard. Parking will be limited to a maximum of one company insured vehicle on site or within the construction yard.

D. On-street parking is not permitted in areas not designated for parking or construction. **Add02**

F. Vehicles found to be on university property without a valid permit, will be cited. Fines range from $50.00 for no permit to $445.00 for parking in a handicapped stall without a valid blue tag.

1.7 TRAFFIC CONTROL

A. The Contractor shall adopt all practical means to minimize interference to traffic. Access to other facilities under construction shall be maintained at all times. The Contractor shall provide a schedule of any activity that will impact traffic, or any planned closing of the

streets, for approval by the University's Representative and shall give a minimum of 14 working days notice before closing any street or access.

B. Contractor shall furnish at Contractor's expense all barricades, lights, and other devices and means necessary to control traffic and shall maintain these devices at all times to protect the public and/or Work.

C. It is the responsibility of the Contractor performing Work on or adjacent to a highway to install and maintain such devices as are necessary to provide safe passage for the traveling public through the Work, as well as for the safeguard of workers. Before Work begins, traffic control plans for handling traffic through a construction or maintenance Project shall be submitted to and approved by the University's Representative and public agency or authority having jurisdiction over the highway, in accordance with Chapter 5 of the CalTrans Traffic Manual.

D. The Contractor shall comply with the provisions of 01 35 40 Environmental Mitigation.

E. The Contractor shall ensure that all of the General Contractor’s activities that affect traffic control, road use, materials delivery, equipment delivery, rights of way and preservation of 3rd party access rights are coordinated with those of all Separate Contractors.

1.8 SURROUNDING SITE CONDITION SURVEY

A. Prior to commencing the Work, Contractor, and University's Representative shall tour the Project site together to examine and record damage to existing adjacent buildings, campus streets and city streets, bicycle paths, sidewalks, and all other improvements. This record shall serve as a basis for determination of subsequent damage due to Contractor's operations and shall be signed by all parties making the tour. Any cracks, sags, or damage to the adjacent buildings and improvements not noted in the original survey, but subsequently discovered, shall be reported to the University's Representative.

1.9 INTERRUPTION OF BUILDING SERVICES

A. Planned utility service shutdowns shall be accomplished during periods of minimum usage. In some cases this will require Work activities before 8:00 A.M. and after 5:00 P.M. and weekend Work, at no additional cost to the University. At least 7 working days advance notice shall be given to the University's Representative before interruptions to utility service (refer to Exhibit 18 Utility Service Interruption/Shut Down Request) and other interferences with use of existing buildings, surrounding hardscape and roads.

B. Shutdowns critical to the completion of the project shall be listed as Milestones on the project schedule. The Contractor shall program Work so that service will be restored in the minimum possible time, and shall cooperate with the University in reducing shutdowns of utility systems.

C. The University reserves the right to deny shutdown requests based on scheduled work load, research projects, and usage of surrounding buildings or other activities planned on campus.

1.10 PROTECTION OF EXISTING STRUCTURES AND UTILITIES

A. The Drawings show, if applicable, existing above and below grade structures, drainage lines, storm drains, sewers, water, gas, electrical, hot water, and other utilities that are known to the University.

B. Contractor shall locate all known existing installations before proceeding with construction operations that may cause damage to such installations. Existing installations shall be kept in service where possible and damage to them shall be repaired at no additional cost to the University.

C. Existing underground structures and utilities shall be kept in service unless prior approval to interrupt or shutdown service is obtained from University's Representative. If damaged, they shall be repaired by the Contractor with no adjustment of Contract Sum or Contract Time.

D. The Contractor shall coordinate all Work with the operations of separate Contractors as needed. This shall include, but not be limited to, the responsibility of the Contractor to coordinate with University’s Representative.

E. If any other structures or utilities are encountered, the Contractor shall request University's Representative to provide direction on how to proceed with the Work.

F. If any structure or utility is damaged by the Contractor, the Contractor shall take appropriate action to ensure the safety of persons and property.

G. No Work is to be performed on energized electrical equipment unless scheduled with the University’s Representative. The University reserves the right to specify specific conditions for all Work involving energized high-voltage electrical equipment.

H. General Contractor shall uncover, prior to any earthwork for new construction, all existing piping where crossings, interferences or connections are shown on the Drawings, from 1 foot below proposed construction limit to the existing ground surface. Any variation in the actual elevations and the indicated elevations shall be brought to the University's Representative's attention. If the Contractor does not expose all existing utilities, General Contractor shall not be entitled to additional compensation for Work necessary to avoid interferences.

I. If interferences occur at locations other than the general locations shown on the Drawings, and such utilities are damaged before their locations have been established, or create an interference, the Contractor shall notify the University’s Representative and a method for repairing the damage or correcting the interference shall be supplied by the University’s Representative. Payment for additional Work due to interferences not shown on the Drawings shall be in accordance with the General Conditions.

J. Care shall be exercised to prevent damage to adjacent facilities including walks, streets, curbs, and gutters; where equipment will pass over these obstructions suitable planking shall be placed. Damaged facilities, due to the Contractor operations, shall be removed and replaced at the Contractor's expense.

1.11 PROTECTION OF PERSONNEL

A. Contractor shall take proper precautions to ensure the safety of all persons at all times during the construction period.

1.12 PROJECT SITE SECURITY

A. The Contractor shall install and maintain 8' high chain link site security fencing and gates as shown on the Site Logistics Plan. Fencing at the building perimeter shall include black shade screen to shield construction activities from view. Contractor shall be responsible for keeping areas involved in this Work locked and secure at all times when Work is not in progress.

B. All persons working on the Project site shall receive a site safety briefing and Natural Resource Awareness Training from the University prior to being allowed to start work.

1.13 CONSTRUCTION STAGING & MULTIPLE CONSTRUCTION CONTRACTS

A. The following describes the scheduling of the Work and the coordination required for the Work done by Separate Contractors:

1. The University reserves the right to let other construction contracts.

2. The following projects may be in progress at times during this project:

a. Campus 2020 Project

3. Disagreements between the Contractor and other Separate Contractors about concurrent use of Work areas or access to the Project site which are not resolved by the participants shall be referred to the University's Representative and the Contractor agrees to abide by the University's Representative's determination as to concurrent use or priority of access and to perform its Work in compliance with the University's Representative's resolution at no additional cost to the University.

B. All material and equipment for construction operations shall be brought in and the Work so conducted as to avoid any interference with existing University facilities or their normal operations, and with concurrent construction Work by other Separate Contractors.

1.14 FINAL EXAM SCHEDULE

A. Contractor shall be advised that academic finals week takes place on the UC Merced campus during May, August and December of each year. During these periods of time, students are involved in intensive testing relative to their academic course work. During these periods of time, noise level generated as a result of construction activity must be kept to a minimum. Contractors will be expected to Work with the University's requirements to achieve a level of noise that is acceptable to the University. Actual schedule for finals weeks during each year will be coordinated with Contractor following the issuance of the Notice to Proceed.

1.15 WORK SITE DECORUM

A. Extreme care to limit noise and odors shall be taken at all times. Loud or unnecessary conversation shall be avoided. The playing of radios tapes, or compact discs shall be strictly prohibited.

B. Contractor shall control the conduct of its employees and those of its subcontractors and suppliers so as to prevent interaction initiated by said employees with University of California Merced students, staff, or other individuals (except those associated with the Project), on or adjacent to the Project site. Without limitation, unwanted interaction by these employees includes whistling at, motioning toward, or initiating conversations with passersby. In the event that any employee initiates such unwanted interaction, or utilizes profanity, Contractor shall, either upon request of University's Representative or on its own initiative, replace said employee with another of equivalent technical skill, at no additional cost to the University.

C. **Smoking is prohibited in and within 20 feet of any entrance, window, or air intake of all University buildings and in enclosed areas. Smoking will not be allowed in the construction area. Smoking will be allowed in a designated area within the construction storage yard only.**

D. Firearms are prohibited on University property.

E. Alcoholic beverages are prohibited on University property unless the prior written approval of the University’s Representative is obtained.

F. Pets are prohibited on the Project site.

1.16 PUBLICITY

A. Contractor shall not release any information, story, photograph, plan or drawing relating to the Project to anyone, including press or other public communications medium, except as submitted and approved for release by the University’s Representative.

1.17 PROJECT SIGN

A. No signs or advertisements will be permitted on the Project site, except with express permission of University's Representative.

1.18 JOB OFFICE

A. Space on the Project Site is limited. Trailer space must be requested and approved by the University’s Representative. Storage and office trailers are to be located in the temporary laydown area as shown on the Site Logistics. Space will be allocated by the University’s Representative. Contractor shall provide and maintain all temporary facilities as required for completion of the Project. Verify location of temporary laydown area on drawings.

1.19 SALVAGE

A. All material and equipment removed as part of this Project is the property of the Contractor and shall be removed from the Campus and legally disposed of, unless otherwise stated in the Contractor's "Scope of Work".

1.20 CLEANUP

A. During the progress of the Work, the Contractor shall keep the Project site in a neat and clean condition that is free of debris to the satisfaction of the University's Representative. All materials and debris accumulated in conjunction with completing this Work shall be disposed of in the jobsite trash dumpsters provided by the Contractor and disposed of off campus. Contractor shall not use University refuse containers.

1.21 UNIVERSITY FURNISHED CONSTRUCTION DOCUMENTS

A. University will furnish to the Contractor 1 set of Drawings and Specifications and 1 CD of the Drawings and Specifications upon an award of the Contract at no cost. If more than 1 set is required or if the Contractor wants the Drawings in another size other than the size issued with the Bidding Documents, the Contractor will pay the actual cost of reproduction for printing.

1.22 JOB CONDITIONS

A. Protection: Where roof edge does not terminate in a parapet wall and/or where Work is in progress overhead and materials or objects could potentially fall, the Contractor is required to construct temporary covered pedestrian walkways over each building entrance. Walkway covers shall extend out 12 feet in length for the first floor and an additional 4 feet for each additional floor of the building. Walkway covers shall extend from face of building. Contractor shall be required to place and maintain yellow safety construction flagging or ropes with signage to prevent pedestrians from coming within 25 feet of Work in progress overhead and to route pedestrians in and out of building entrances.

B. Safety Precautions: Perform Work in such a manner as to prevent damage to existing facilities to remain or to be salvaged. Hazardous Work shall not be left standing or hanging, but shall be knocked or pulled down to avoid damage or injury to employees or the public.

C. Crane Operation, Staging and Storage

1. Operator Training and Crane Certification: Prior to starting crane operations, General Contractor shall provide copies of operator's training and crane certification to the University's Representative.

2. Crane Staging Area: Contractor shall be required to coordinate with the University's Representative a minimum of 5 working days in advance of loading and removal of materials from the roof. Contractor is responsible for providing necessary staging area for crane.

3. Storage: Contractor shall not be allowed on-site crane storage unless with the prior written approval of the University's Representative.

1.23 NOT USED

1.24 PROJECT SITE SUPERINTENDENT

A. Contractor shall employ a competent Project Site Superintendent/Foreman satisfactory to the University's Representative. The Project Site Superintendent/Foreman shall be in attendance at the Project site at all times during the performance of the Work. Project Site Superintendent/Foreman shall represent the Contractor and communications given to and received from the Project Site Supervisor shall be binding on Contractor.

B. The Contractor shall submit to the University's Representative the qualifications of the Project Site Superintendent/Foreman prior to commencement of the Work. The University's Representative shall approve the Project Site Superintendent/Foreman based on his/her experience with projects similar to type, scope, size, and complexity.

C. The Project Site Superintendent/Foreman approved for the Project by the University's Representative, must be able to proficiently read, write and verbally communicate in English. The Project Site Superintendent/Foreman may not perform the Work of any trade, pick-up materials, or perform any Work not directly related to the supervision and coordination of the Work at the Project site while Work is in progress.

D. Failure to maintain a Project Site Superintendent/Foreman on the Project site at all times Work is in progress shall be considered a material breach of this Contract, entitling University to terminate the Contract or alternatively, issue a stop Work order until the Project Site Superintendent/Foreman is on the Project site. If, by virtue of issuance of said stop Work order, General Contractor fails to complete the Contract on time, General Contractor will be assessed Liquidated Damages in accordance with the Agreement.

E. If the Project Site Superintendent/Foreman fails to perform to the satisfaction of the University's Representative, the University's Representative may, upon 15 days written notice, require the General Contractor to remove the Project Site Superintendent/Foreman from the Project and replace the Project Site Superintendent/Foreman with a replacement acceptable to the University's Representative.

F. If the Contractor elects a replacement of the Project Site Superintendent/Foreman, such replacement shall be discussed with the University's Representative prior to actual replacement. The same criteria employed by the University's Representative to approve the initial Project Site Superintendent/Foreman shall also apply to the University's Representative's approval of any subsequent Project Site Superintendent/Foreman.

1.25 OTHER CONTRACTOR SITE PERSONNEL

A. In addition to the Project Site Superintendent/Foreman, the Contractor shall provide site personnel of quality and quantity sufficient to carry out all of the on-site Contractor responsibilities described in the Contract Documents. See Instructions to Bidders for other site personnel requirements that may also be required.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 35 00

SECTION 01 35 40 - ENVIRONMENTAL MITIGATION

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Related Sections

1. 01 81 13 LEED® Requirements
2. 01 74 19 Site Waste Management Program
3. 01 35 43 Hazardous Materials Procedures

B. Requirements

1. The Environmental Mitigation requirements for this Project are recorded in this Specification Section. The mitigation measures may include, but are not limited to, procedures and standards to control:
   a. Dust Palliation
      (1) All construction, demolition, excavation, extraction or other earthmoving activities shall comply with the San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII - Fugitive PM10 Prohibitions.
      (2) All disturbed areas, including storage piles, shall be sprinkled with water or other dust control agents/chemical stabilizers acceptable to SJVAPCD, or shall be covered with vegetative ground cover, so as to effectively prevent dust emissions. Additional watering or acceptable dust control agents/chemicals shall be applied during dry weather or windy days until dust emissions are not visible.
      (3) Trucks hauling dirt and debris shall be effectively wetted and/or maintain not less than six inches freeboard and/or cover the top of the load to reduce wind blown dust or spills.
      (4) Dirt or debris spilled onto paved surfaces shall be swept up immediately to reduce resuspension of particulate matter caused by vehicle movement. Approach routes to the Project site shall be cleaned daily of construction related dirt or mud. The use of dry rotary brushes and blower devices is prohibited except where preceded by sufficient wetting to limit visible dust emissions and the prior written approval of the University's Representative.
      (5) On-site stockpiles of excavated material shall be covered or watered.
      (6) Traffic speeds on unpaved roads shall be limited to 15 mph.
      (7) If an area having 0.5 acres or more of disturbed surface area remains unused for seven or more calendar days, the area must comply with conditions for a stabilized surface area as defined in Rule 8011 of SJVAPCD and General Contractor shall comply with the record keeping requirements specified in Rule 8011 of SJVAPCD.

b. Other Air Pollutants
   (1) When feasible, construction equipment should use alternative fuel sources such as propane, natural gas or electricity.
   (2) Minimize idling time of machinery to a maximum of 10 minutes when construction equipment is not in use.
   (3) Construction equipment rated greater than 100 horsepower shall have, to the extent feasible, diesel exhaust controlled by use of catalyst-based diesel particulate filters.
   (4) Use low-emission on-site station equipment.

c. Noise
   (1) Construction equipment shall be properly outfitted and maintained with adequate mufflers and other appropriate noise reduction devices to minimize construction-generated noise.
   (2) Stationary noise sources such as generators or pumps shall be located away from noise sensitive land-uses and occupied buildings.
   (3) Prior to construction activities, Contractor shall coordinate with the County Parks and Recreation Division to reduce the likelihood that planned events at the Lake Yosemite Park are adversely affected by project construction.
   (4) Comply with all applicable sound ordinances as required.
   (5) Should the Contractor need to generate construction noise adjacent to occupied buildings, the Contractor shall inform the University’s Representative in writing 14 calendar days prior to generating the noise.
   (6) The Contractor shall comply with the provisions of Section 01 35 00 Special Requirements with regard to Work Hours.

d. Odors
   (1) Work that causes excessive odors shall be performed only after coordination with the University's Representative. Filtering of air intakes to air handling units may be needed to prevent odors and vapors from entering buildings.
   (2) Contractor shall provide 14 working days advance written notice to the University's Representative in order for advance notices to be forwarded to building occupants. Work stoppage may occur if advance notification has not been coordinated or if odors and vapors from the work are found to generate complaints from building occupants.

e. Light
   (1) The Contractor shall minimize up-light and light spill by focusing light sources and using shielding.
   (2) No light sources shall be directed across the site boundaries.

1.2 ARCHAEOLOGICAL RESOURCES

A. GENERAL

1. If during the course of construction, evidence of deposits of historical or archaeological interest is found, the Contractor shall cease the Work affecting the

find and immediately notify the University's Representative and shall not disturb deposits until written notice from University's Representative is given to proceed.

2. Contractor will be compensated for lost time or changes in construction to avoid the find based upon normal change order procedures if Critical Path is affected.

B. Procedures

1. If a potentially significant archaeological find is identified during construction, the University may incorporate into the proposed project design measures that will minimize or eliminate direct impacts to the deposit. These may include avoidance of the site by inclusion in landscaping or open space, placement of fill over the site, and/or project redesign. If this is not feasible, or if such measures will not ensure the avoidance of impacts, the University will ensure that an archaeological testing program is carried out to assess the significance of the find.
2. If a find is determined to be significant, and if it cannot be preserved intact through project design measures, then the University will retain an archaeologist to design and carry out a treatment plan to document the data and/or preserve such scientific samples of the data for which the site is significant as may be appropriate, given the significance of the find.
3. Any significant finds that are recovered shall be retained by University and will be donated to an appropriate cultural or historical center. Unauthorized collection of artifacts is prohibited. If human remains are encountered, Work will be halted and the Merced County Coroner will be contacted immediately by the University's Representative. If human remains are determined to be Native American, the Coroner will notify the Native American Heritage Commission. The Commission will then notify the person it believes to be the most likely descendant. That descendant will work with the University to develop a program for reinternment of the remains and any associated artifacts.
4. When Native American archaeological, ethnographic, or spiritual resources are found, identification and handling of those resources will be conducted jointly by a University appointed Archaeologist and Native American representatives who are approved by the local Native American community as scholars of their cultural traditions. The Archaeologist shall either be certified by the Society of Professional Archaeologist, or meet the Federal Standards appearing in 36 CFR 61. If no approved Native American representative is available, persons who represent tribal government and/or organizations in the surrounding region shall be consulted. If historic archaeological resources are found, identification and handling of those resources will be conducted by historical archaeologists or architectural historians retained by the University.

1.3 PALEONTOLOGICAL RESOURCES

A. General

1. If during the course of construction, evidence of deposits of paleontological interest is found, the Contractor shall cease the Work affecting the find and

immediately notify the University's Representative. Do not disturb deposits until written notice from University's Representative is given to proceed.

2. Contractor will be compensated for lost time or changes in construction to avoid the find based upon normal change order procedures if Critical Path is affected.

B. Procedures

1. Prior to project construction, construction personnel shall be informed by the Contractor of the potential for encountering significant paleontological resources.
2. If a potentially significant paleontological find is discovered, the Contractor shall cease all operations in the area of the find until a University appointed paleontologist has been afforded the opportunity to assess the significance of the find and implement appropriate measures to protect or scientifically remove the find.
3. Collection of fossil resources by other than the University's consulting paleontologist is prohibited.
4. A University appointed, qualified paleontologist may be intermittently present to inspect exposures of the Merhten Formation, North Merced Gravels, and Riverbank Formation during construction operations to ensure that paleontological resources are not destroyed by project construction.

1.4 NOXIOUS OR TOXIC MATERIALS

A. The Contractor shall ensure that:

1. No noxious or toxic materials shall be used in or around occupied buildings without prior approval of the University's Representative.
2. Chemical wastes shall be stored in covered metal containers and shall be removed from the premises daily.
3. There shall be no accumulations of wastes that create hazardous conditions.
4. Adequate ventilation is provided during use of volatile or noxious substances. Such materials shall only be used after 48 hours previous notification to the University's Representative and preferably on weekends or "down" periods.
5. Chemicals, such as mineral spirits, oil, or paint thinner, are not dumped into storm or sanitary drains or on University property or on any adjoining property.
6. Vehicle maintenance or servicing shall not spill oil or fuel onto the ground and if a spill occurs, it shall be cleaned up immediately and the soil disposed of according to local, State, and/or Federal requirements.
7. Chemical storage, including fuel and oil, shall be double contained.
8. The Contractor's Project Site Superintendent shall be trained in the prevention and correction of spills.
9. Contractor shall have immediate access to spill control equipment, such as absorbent, shovels, and containers.

1.5 REMOVAL AND DISPOSAL OF EXCESS SOIL

A. All materials and debris accumulated in conjunction with completing this Work shall be disposed of legally by the Contractor off the University's property. Contractor shall not

use University refuse containers. Clear soil spoils shall be transported and deposited at a designated on-campus site.

B. Contractor is to coordinate with University Representative to identify the on-campus location of a temporary staging area for storage of excavated soil. The intent of this area is to serve as a nearby storage area for excavated soil intended by the Contractor to be used for backfill or fill later in the project. This area is to be restored to original condition after its use is no longer required.

1.6 REMOVAL AND DISPOSAL OF WASTE MATERIALS

A. All waste materials resulting from the process of clearing and construction shall be legally disposed of by the Contractor as follows:

1. All refuse and debris, concrete and other inert materials, combustible and incombustible substances, resulting from the processes of construction, shall be removed from the University's property. The Contractor shall not use any refuse container belonging to the University. The Contractor shall provide debris boxes for the use of the Contractor and all of their Subcontractors and dispose all debris off-site excepting chemical and hazardous waste which shall be disposed of by the Subcontractor generating the waste. Contractor shall be responsible for depositing their waste into the debris boxes provided by the Contractor on a daily basis.
2. Chemical Waste: All chemical waste, including solvents, oils or any other material that may be harmful to plant life, shall be disposed of in accordance with local, State and/or Federal regulations. Chemical waste shall not be stored on the University's property. At completion of Work, any contaminated soil shall be removed from the University's property and replaced with good soil by the Contractor at no additional cost to the University.

B. The Contractor shall not burn or bury rubbish or waste materials on the University's property.

C. During construction, the Contractor shall maintain buildings, premises and property free from accumulations of waste materials and rubbish. The Contractor shall legally dispose of such waste, rubbish and debris at reasonable intervals off the University's property.

1.7 CONTROL OF NONNATIVE & INVASIVE PLANT SPECIES

A. Contractor shall ensure that seeds from invasive plant species are not transported into the Campus site by earth moving equipment. At a minimum, the Contractor shall ensure that:

1. All earth moving equipment shall be washed down (wheels, under-carriage, bucket/bed, etc.) prior to being transported to the Project site. All earth moving equipment shall be clean and free of seeds or other plant material before being brought on site.
2. The Contractor shall notify the University’s Representative of the source location of all off-site fill material a minimum of 10 calendar days prior to importing

material to the Project site and appropriate steps shall be taken to minimize the potential for invasive species to colonize areas disturbed during construction due to use of such fill.

3. Any organic material used during project construction for erosion control, or any material used for hydroseeding or revegetating disturbed areas is certified free of invasive species.

1.8 PROTECTION OF SENSITIVE AREAS OUTSIDE PROJECT SITE BOUNDARY

A. Contractor shall install and maintain all temporary construction fencing around the Project site in accordance with Section 01 56 00 Temporary Barriers and Enclosures and in accordance with fencing layout shown on the Site Logistics Plan. Fencing shown to be installed at the building site, as opposed to the laydown area, will include black shade meshing to obstruct views into the construction site.

B. Contractor shall operate strictly within the confines of the fence and in the staging area described in the Site Logistics Plan (see Information Available to Bidders).

C. In no instances shall construction related vehicles or Contractor's personnel travel beyond the Project site boundary except on roads.

D. In no instance shall the Contractor allow any material, whether solid or liquid, to migrate from the Project site across, under or over the temporary construction fencing except when said material is being removed from the Project site in accordance with the Contract Documents.

1.9 NATURAL RESOURCE AWARENESS TRAINING FOR CONSTRUCTION PERSONNEL

A. Training Program

1. Prior to working on the Project site, all construction personnel shall attend a training program provided by the University Representative on Monday and Wednesday mornings at 7:30am or when agreeable with University's Representative. The training will include at minimum, a description of the species at risk and their habitat, the importance of the species and their habitat, the general measures being implemented to conserve the sensitive areas/species, and the boundaries within which the project may be accomplished.
2. The training shall be conducted in English and shall consist of a presentation and the distribution of appropriate literature. The Contractor shall ensure that all Subcontractor and Contractor supplier personnel attend a training session before they start working at the Project site.
3. The Contractor shall ensure that the following site regulations, which will be identified in the Training program, are adhered to:
   a. All food related items shall be properly disposed of, and signs indicating that the feeding of wildlife is prohibited shall be placed at the Project site.
   b. Vehicle traffic shall occur primarily between dawn and dusk, and shall be limited to 20 mph to reduce the potential for wildlife road mortality.

c. Any trench or pit shall be constructed in such a way as to provide ramps of either fill or planks to prevent kit fox and other species from becoming entrapped.

d. Pipes, culverts, etc. greater than four inches in diameter shall be stored in such a way as to prohibit foxes or other species from using these areas as temporary refuge. In addition, these structures shall be thoroughly inspected each morning for kit fox or other species.

e. No firearms shall be allowed on University Property.

f. No pets shall be permitted on University Property.

g. The use of pesticides on the Project site by the General Contractor, including but not limited to rodenticides, insecticides and herbicides, is prohibited unless prior written approval of the University's Representative is obtained.

h. Construction vehicles shall be limited to a maximum speed of 10 mph in the vicinity of breeding ponds of California tiger salamander during the salamander movement period. The location of the breeding ponds and dates of the movement period shall be identified by the University's Representative.

i. If construction activities occur within 0.6 miles of salamander breeding ponds, the Contractor shall erect drift fences or other effective salamander barriers around the site before 1st February in the winter prior to the start of construction. The fences shall be positioned so as to allow salamander's access to the breeding ponds but to exclude them from the Project site. Prior to fence erection, layout of the fences shall be submitted to the University's Representative for review and approval.

j. The University's Representative shall identify any areas containing burrowing owls. The Contractor shall establish "Sensitive Areas" around the occupied owl holes identified by the University's Representative. The Sensitive Areas shall not be disturbed by the Contractor. The Sensitive Areas shall extend to a distance of 160 feet from each occupied burrow during the non-breeding season of 1st September through 31 January. The sensitive Areas shall extend to a distance of 250 feet from each occupied burrow during the breeding season of 1st February through 31st August. The Contractor shall erect a temporary fence during the breeding season around occupied burrows. If in the opinion of the University's Representative, the Sensitive Area method is impractical, the owls may be passively relocated. To relocate the owls, the Contractor shall fit one-way doors across the entrances to those burrows identified by the University's Representative. The doors shall be positioned so that the owls can exit but not enter their burrows. The doors shall remain in place for 72 hours. Before and during the relocation process, the Contractor shall establish a 250 feet Sensitive Area around the burrows identified for relocation. No relocation activity shall be carried out during the breeding season.

k. The University's Representative shall identify the location of active raptor nests adjacent to the Project site. Should an active Swanson's Hawk nest be located within 1000 feet of the Project site, or an active nest of another raptor species be identified within 250 feet of active construction, the University's Representative will, in consultation with

the California Department of Fish & Game, determine the actions necessary to protect the nest site. Such actions may include avoiding construction within a distance from the nest determined by the University's Representative for a period determined by the University's Representative

1.10 AUTHORITY OF THE UNIVERSITY'S REPRESENTATIVE TO SUSPEND WORK

A. The University's Representative has the authority to suspend construction work when such work causes or threatens to cause harm to sensitive habitat or species.

B. Contractor will be fully responsible for any and all damages and sanctions placed against the Project for any violations of these requirements.

1.11 SURFACE WATER CONTROL

A. All portions of the Work shall be kept free of standing water at all times during construction of the Work herein specified. Where required, temporary drainage ditches, berms, or pumping systems shall be constructed to divert drainage water away from the Project site and the resultant water shall be carried to the nearest water course approved by the University's Representative and disposed of without erosion to the surrounding area. Care shall be taken to prevent silting of the water courses. Silt that is deposited, as a result of the Work in this Project, shall be removed and disposed of by the Contractor, at the Contractor's expense and to the satisfaction of the University's Representative. The General Contractor shall follow CALTRANS "Handbook of Practices, Storm Water Pollution Practice."

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 35 40

SECTION 01 35 43
HAZARDOUS MATERIALS PROCEDURES

PART 1 - GENERAL

1.1 CONTRACTOR'S RESPONSIBILITY

A. Except as otherwise specified, in the event Contractor encounters on the Project site material reasonably believed to be asbestos, polychlorinated biphenyl (PCB), lead, or other hazardous substances that have not been rendered harmless, Contractor shall immediately stop work in the area affected and report the condition to the University's Representative in writing. The Work in the affected area shall not thereafter be resumed except by written agreement of University and Contractor if in fact the material is asbestos, PCB, lead, or other hazardous substances and has not been rendered harmless. The Work in the affected area shall be resumed in the absence of asbestos, PCB, lead, or other hazardous substances, or when such materials have been rendered harmless.

B. Disclose any hazardous substance or condition exposed during the Work to the University's Representative for decision or remedy.

C. In no event, shall the Contractor install materials that contain asbestos, PCB, lead or other known hazardous materials without specific prior written approval by the University's Representative.

D. Disposal of lighting ballasts containing PCB's shall be accomplished by the University. The Contractor shall coordinate with the University's Representative regarding a date, location and time for delivery to a location on Campus to be designated.

E. Regulated Carcinogens by California Code of Regulations (CCR) Title 8, Section 5200 et seq.

1. Products containing chemicals regulated as carcinogens by California Occupational Safety and Health Act (COSHA) are not allowed for use on University projects. The COSHA regulated carcinogens are:
   a. 2-Acetylaminofluorene, 5209
   b. 4-Aminodiphenyl
   c. Benzidine (and its salts)
   d. 3,3'-Dichlorobenzidine (and its salts)
   e. 4-Dimenthylaminoazobenzene
   f. alpha-Naphthylamine
   g. beta- Naphthylamine
   h. 4-Nitrobiphenyl
   i. N-Nitrosodimethylamine
   j. beta-Propiolactone
   k. bis-Chloromethyl ether
   l. Methyl chloromethyl ether
   m. Ethyleneimine
   n. Methylene Chloride, 5202
   o. Methylenedianiline (MDA), 1535, 5200
   p. Cadmium, 1532, 5207
   q. Asbestos, 1529, 5208, 5208.1, 8358

r. Vinyl Chloride, 5210
s. Coke Oven Emissions, 5211
t. 1,2-Dibromo-3-Chloropropane (DBCP), 5212
u. Acrylonitrile, 5213
v. Inorganic Arsenic, 5214
w. 4,4'-Methylenebis(2-Chloroaniline) (MBOCA), 5215
x. Formaldehyde, 5217
y. Benzene, 5218
z. Ethylene Dibromide (EDB), 5219
aa. Ethylene Oxide (EtO), 5220
bb. 1,3 Butadiene, 5201

2. Case-by-case exceptions may be considered for products containing the following COSHA recognized carcinogens:
   a. Methylene Chloride, 5202
   b. Cadmium, 1532, 5207
   c. Inorganic Arsenic, 5214
   d. Formaldehyde, 5217
   e. Benzene, 5218
3. Case-by-case exceptions may only be made when suitable alternative products are not available. Such exceptions are subject to approval by the University's Representative.
4. Exceptions require that the Contractor shall have an established carcinogen program as required by COSHA and shall submit to University's Representative, a copy of the COSHA Confirmation of Report for COSHA carcinogens.
5. When exceptions are granted the Contractor is responsible for providing to the University's Representative a copy of the semi-annual Confirmation of Report received from COSHA or, in lieu of that, a copy of the Contractor's semi-annual report as submitted to COSHA at periods not to exceed 6 months, or at project closeout, whichever occurs first.

1.2 ASBESTOS IN BUILDINGS NOTIFICATION

A. California Health and Safety Code, Section 25915, Chapter 10.4, Division 20 requires UC Merced employees and contractors working for the campus to be notified of the presence of asbestos in buildings constructed prior to 1979. For information about asbestos in specific buildings, contact the University’s Representative.

B. It is important to note that the presence of asbestos does not mean you have been exposed to asbestos. Exposure strictly refers to the inhalation or ingestion of friable asbestos particles. Asbestos becomes friable through drilling, sanding or similar destructive processes usually associated with remodeling or demolition work. Intact, bonded, sealed and undisturbed asbestos does not pose a hazard.

C. Contractors who disturb or potentially disturb friable or non-friable asbestos must comply with all Federal State and Local rules and regulations regarding hazardous materials.

1.3 LEAD BASED PAINT IN BUILDINGS

A. The California Department of Health Services requires the certification of employees and supervisors performing lead related construction activities in residential and public

buildings, as defined in Title 17, California Code of Regulations, Division 1, Chapter 8. Lead related construction work is defined in Title 17 as any construction, alteration, painting, demolition, salvage, renovation, repair, or maintenance of any residential or public building, including preparation and cleanup, that, by using or disturbing lead containing material or soil, may result in significant exposure of adults or children to lead.

B. It is important to note that the presence of lead does not mean you have been exposed to lead. Exposure strictly refers to the inhalation or ingestion of lead dust. Lead becomes dust through drilling, sanding or similar destructive processes usually associated with remodeling or demolition work. Intact, bonded, sealed and undisturbed lead does not pose a hazard.

C. For information about lead in specific buildings, contact the University Representative

D. Contractors who disturb or potentially disturb lead must comply with all Federal State and Local rules and regulations regarding hazardous materials.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 35 43

SECTION 01 41 00
REGULATORY REQUIREMENTS

PART 1 - GENERAL

1.1 CODES, AGENCIES, AND REFERENCES

A. The Work shall be performed in accordance with Applicable Code Requirements and applicable requirements of all other regulatory agencies, including, but not limited to, the following:

1. Americans with Disabilities Act - Title II.
2. California Environmental Quality Act.
3. California Health and Safety Code.
4. National Fire Protection Association (NFPA).
5. Federal Occupational Safety and Health Administration.
6. Federal Clean Water Act, including but not limited to the Storm Water Pollution Prevention requirements.
7. Federal Endangered Species Act.
8. Federal Clean Air Act.
9. Porter-Cologne Water Quality Act, State of California
10. Endangered Species Act, State of California
11. California Fish & Game Code, Section 1600, et. seq.
12. Resource Conservation and Recovery Act (RCRA) and the California Hazardous Waste Control Law.
13. Comprehensive Environmental Response and Cleanup Liability Act (CERCLA)
14. California Building Code (CBC)

1.2 STANDARDS AND CODES

A. Applicable laws, codes, rules, regulations, ordinances and standards

1. Code of Federal Regulations
   a. Title 33, Navigation and Navigable Waters
   b. Title 40, Protection of Environment
   c. Title 50, Wildlife and Fisheries
2. California Code of Regulations (CCR)
   a. Title 8, Industrial Relations/Elevators
   b. Title 14, Natural Resources
   c. Title 17, Public Health
   d. Title 19, Public Safety

e. Title 20, Public Utilities and Energy
f. Title 21, Public Works
g. Title 22, Environmental Health
h. Title 23, Waters
i. Title 24, California Building Standards Code
   1) Part 2, California Building Code 2010
   2) Part 3, California Electric Code 2010
   3) Part 4, California Mechanical Code 2010
   4) Part 5, California Plumbing Code 2010
   5) Part 6, California Energy Code 2010
   6) Part 7, California Elevator Safety Construction Code 2007
   7) Part 9, California Fire Code 2010
   8) Part 11 California Green Building Standards Code 2010
   9) Part 12, California State Reference Standards 2010
j. Title 27 Environmental Protection 2007

3. San Joaquin Valley Air Pollution Control District Regulation #8 2004

1.3 REFERENCES

A. Unless otherwise specified, specific references to codes, regulations, standards, manufacturers' instructions, or requirements of regulatory agencies, when used to specify requirements for materials or design elements, shall mean the latest edition of each in effect at the date of submission of bids, or the date of the Change Order (Exhibit 9) or Field Order (Exhibit 8), as applicable.

1.4 CONFLICTS

A. Unless otherwise directed by the University's Representative, if a conflict exists between referenced regulatory requirements and the Contract Documents, the Contractor shall refer the matter to the University’s Representative for further instruction.

B. Nothing stated in this Section of the Specifications or other Sections of the Specifications, the other Contract Documents or the Bidding Documents or shown on the Drawings shall be construed as allowing Work that is not in strict compliance with all applicable Federal, State, regional, and local statutes, laws, regulations, rules, ordinances, codes and standards.

1.5 TRENCHING AND SHORING

A. All Work shall be in full accordance, but not necessarily limited to the following codes and regulations: Titles as listed in Section 1.2 Standards and Codes above, State of California, California Code of Regulations (CCR), California Occupational Safety and Health Administration (OSHA).

1. Pursuant to Labor Code 6707, the General Contractor shall include in the bid all costs incident to the provisions of adequate sheeting, shoring, bracing or equivalent method for

the protection of life or limb that shall conform to applicable Federal and State safety orders.

2. Before beginning any excavation 5 feet or more in depth, the Contractor shall submit to the University's Representative a detailed Drawing showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation. The proposed design shall comply with the standards established by the State of California Construction Safety Orders, Title 8 and Title 24 of the California Code of Regulations (CCR). If the design varies from such shoring system standards, the Drawing shall be prepared by a registered civil or structural engineer whose name and registration number shall be indicated on the Drawing. If a dispute arises as to whether the plan must be prepared by a registered civil or structural engineer, the University's Representative's determination of the matter shall be final and conclusive on the Contractor. The cost of required engineering services shall be borne by the Contractor and shall be deemed to have been included in the Contract Sum for the Work as stated in the Agreement.

3. Neither the review nor approval of any Drawing showing the design of shoring, bracing, sloping, or other provisions for worker protection, shall relieve the Contractor from the obligation to comply with construction State of California Construction Safety Order and Title 24 of the California Code of Regulations (CCR) for the design and construction of such protective Work, and the Contractor shall indemnify the University and the University's Representative from any and all claims, liability, costs, actions and causes of action arising out of or related to the failure of such protective systems. The Contractor shall defend the University, its officers, employees, Design Professional and agents and the University's Representative in any litigation or proceeding brought with respect to the failure of such protective systems.

4. All Work including any temporary construction shall be in full compliance with the latest orders of the Division of Industrial Safety of the State of California and all codes and regulations as called for hereinafter in these specifications.

1.6 REGULATORY NOTIFICATIONS

A. Submit all required notifications to Federal, State of California, State in which disposal facility is located if not in California, regional, and local agencies with regulatory responsibilities associated with the Work activities that are included in the Contract. All notifications shall be served in writing, in the form required by the agency requiring notification, and in a timely manner so as not to negatively impact the Project schedule. Serve notifications at least 10 working days in advance (or earlier if required by agency) of activity requiring notice. The Contractor shall serve all required notifications in writing to all governmental and quasi-government agencies having notification requirements pertaining to any portion of the Work included in the Project.

B. Contractor shall comply with the State General Construction Activity Storm water Permit National Pollutant Discharge Eliminate System (NPDES) for the campus and comply with the University’s Storm Water Pollution Prevention Plan.

1.7 NOTIFICATIONS, CERTIFICATES AND UNIFORM HAZARADOUS WASTE MANIFEST

A. Permits

1. Contractor will not be required to obtain a County of Merced building permit.

B. Fire Department

1. Contractor shall be responsible for issuing in writing to the University's Representative the following notifications prior to starting site Work:

a. Hazardous Condition Notification - Hot Work: must be coordinated before starting any hot work (welding, burning, or cutting, etc.) involving use of gas or electric welding equipment. Contractor shall report to the University's Representative, at the beginning and 30 minutes prior to the end of each shift that such "hot" work takes place

b. Hazardous Conditions Notification-General: for the storage or use of any flammable liquid in excess of 10 gallons or in any confined area where vapors can be ignited. The General Contractor shall report to the University's Representative at the beginning and 30 minutes prior to the end of each shift that such work takes place

c. Hazardous Condition Notification-Special Conditions: Coordinate in advance with the University's Representative before restricting access to or blocking of any building exit or Work that will require the shutdown of building fire protection or alarm systems. The General Contractor shall report to the University's Representative at the beginning and 30 minutes prior to the end of each shift that such work takes place

d. At the end of the Work, the Contractor must submit Automatic Sprinkler Systems-Material and Test Certificate for Aboveground Piping and Automatic Sprinkler Systems- Material and Test Certificate for Underground Piping for approval by the University (Exhibits 20 and 21)**.** The Automatic Sprinkler underground and aboveground will not be accepted until these certificates have been completed and submitted.

C. Prior to commencing clearing, excavation and trenching, Contractor shall locate all known existing installations before proceeding with construction operations that may cause damage to such installation. Existing installations shall be kept in service where possible and damage to them shall be repaired at no additional cost to the University.

D. Uniform Hazardous Waste Manifest: Contractor shall be responsible for coordination with the University's Representative for obtaining a Uniform Hazardous Waste Manifest prior to removal of asbestos containing materials, polychlorinated biphenyl (PCB), or other hazardous materials from the Project site. Manifest will be provided by the University's Representative. Only the University's Representative will be allowed to sign individual manifests on behalf of the Contractor / University.

1.8 CIVIL OR CRIMINAL PENALTIES OR FINES

A. Contractor shall be liable for the payment of any and all civil or criminal penalties or fines imposed by the U.S. Fish & Wildlife Service (USFWS), U.S. Army Corps of Engineers

(USACE), California Department of Fish & Game (CDFG), Central Valley Regional Water Quality Control Board (CVRWQCB) or any other applicable regulatory agency for Contractor's violations of the federal Endangered Species Act (ESA), Clean Water Act (CWA), California Endangered Species Act (CESA), Porter-Cologne Water Quality Control Act (Porter-Cologne); any regulation promulgated to implement said statutes; the UC Merced Biological Opinion; or any applicable authorization issued by the USFWS, USACE, CDFG, CVRWQCB, or other applicable federal, state or local regulatory agency.

B. In the event Contractor is found liable for civil actions under the abovementioned statues, regulations, permits or authorizations, Contractor shall be responsible for the payment of any civil penalties imposed by any applicable regulatory agency. Penalties may vary according to the applicable statute, including but not limited to, penalties of up to $50,000 per day of violation of the CWA, $25,000 for each ESA violation, and $15,000 per day of violation of Porter-Cologne.

C. In the event Contractor is convicted of criminal actions under the abovementioned statutes, regulations, permits or authorizations, Contractor shall be responsible for satisfying applicable terms of imprisonment and the payment of any criminal fines imposed by the regulatory agency. Fines may vary according to the applicable statue, including but not limited to, fines of $250,000 per day of violation of the CWA, $50,000 for each ESA violation, and $15,000 per day of violation of Porter-Cologne.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 41 00

SECTION 01 42 13
ABBREVIATIONS, SYMBOLS & DEFINITIONS

PART 1 - GENERAL

1.1 ABBREVIATIONS

A. The following abbreviations of organizations may be used in the Contract Documents:

AA	Aluminum Association
AABC	Associated Air Balance Council
AAMA	Architectural Aluminum Manufacturers' Association
AAN	American Association of Nurserymen, Inc.
AASHTO	American Association of State Highway and Transportation Officials
ABAG	Association of Bay Area Governments
ABPA	Acoustical and Board Products Association
ABPTA	American Bearing Power Transmission Association
ACI	American Concrete Institute
ACIL	American Council of Independent Laboratories
ACPA	American Concrete Pipe Association
ADA	Americans with Disabilities Act of 1990
ADAAG	American with Disabilities Act Accessibility Guidelines
ADC	Air Diffusion Council
AFBMA	Anti-Friction Bearing Manufacturers Association
AFI	Air Filter Institute
AGA	American Gas Association
AF&PA	American Forest and Paper Association
AGC	Associated General Contractors of America
AHA	American Hardboard Association
AI	The Asphalt Institute
AIA	American Institute of Architects
AIEE	American Institute of Electrical Engineers
AIMA	Acoustical and Insulation Materials Association
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ALSC	American Lumber Standards Committee
AMCA	Air Moving and Conditioning Association
ANSI	American National Standards Institute
AOAC	Association of Official Analytical Chemists
APA	American Plywood Association
API	American Petroleum Institute
AQMD	Air Quality Management District
ARI	Air-Conditioning and Refrigeration Institute
ASA	American Standards Association
ASAHC	American Society of Architectural Hardware Consultants
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers

ASME	American Society of Mechanical Engineers Association
ASTM	American Society for Testing and Materials
AWCI	Association of Wall and Ceiling Industries
AWG	American Wire Gauge
AWI	Architectural Woodwork Institute
AWPA	American Wood-Preservers' Association
AWPB	American Wood Preservers Bureau
AWPI	American Wood Preservers Institute
AWS	American Welding Society
AWWA	American Water Works Association
BHMA	Builders Hardware Manufacturers' Association
BICSI	Building Industry Consulting Service International
BOCA	Building Officials and Code Administrators
CAC	California Administrative Code
CARB	California Air Resources Board
CBC	California Building Code
CBSC	California Building Standards Commission
CCR	California Code of Regulations
CDA	Copper Development Association, Inc.
CDFG	California Department Fish and Game
CE	Corps of Engineers (U.S. Dept. of the Army)
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response and Cleanup Liability Act
CESO	California Elevator Safety Order
CGA	Compressed Gas Association
CISPI	Cast Iron Soil Pipe Institute
CLFMI	Chain Link Fence Manufacturer's Institute
CLPA	California Lathing and Plastering Association
CMC	California Mechanical Code
CMM	State of California, Business, Transportation and Housing Agency, Department of Transportation “Materials Manual”
COSHA	California Occupational Safety and Health Act
CPC	California Plumbing Code
CPSC	Consumer Product Safety Commission
CRI	Carpet and Rug Institute
CRSI	Concrete Reinforcing Steel Institute
CS	Commercial Standards of NBS (U.S. Dept. of Commerce)
CSS	State of California, Business, Transportation and Housing Agency, Department of Transportation “Standard Specifications”
CTI	Cooling Tower Institute
CVRWQCB	Central Valley Regional Water Quality Control Board
DHI	Door & Hardware Institute
DHS	California Department of Health Services
DSA	Division of State Architect
DSA/AC	Division of State Architect, Access Compliance Section
EIA	Electronic Industrial Alliance
EPA	Environmental Protection Agency

ESO	Electrical Safety Orders of Division of Industrial Safety, Title 8, CAC
ETL	Electrical Testing Laboratories
FCC	Federal Communications Commission
FFDA	Federal Food and Drug Administration
FGMA	Flat Glass Marketing Association
FIA	Factory Insurance Association
FM	Factory Mutual System, Factory Mutual Engineering Corporation
FS	Federal Specifications
FSC	Forest Stewardship Council
GA	Gypsum Association
GFI	Ground Fault Interrupter
HCP	Habitat Conservation Plan
HEPA	High Efficiency Particulate Air
HI	Hydronics Institute
HMI	Hoists Manufacturers Institute
HMMA	Hollow Metal Manufacturers Association
HPMA	Hardwood Plywood Manufacturers Association
IAPMO	International Association of Plumbing and Mechanical Officials
IAQ	Indoor Air Quality
IBEW	International Brotherhood of Electrical Workers
IBR	Institute of Boiler and Radiator Manufacturers
ICBO	International Conference of Building Officials
ICEA	Insulated Cable Engineering Association
IEC	International Electrotechnical Commission
IEQ	Indoor Environmental Quality
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society of North America
IGCC	Insulating Glass Certification Council
IPCEA	Insulated Power Cable Engineers' Association
ISA	Instrument Society of America
ISO	International Standards Organization
ITU	International Telecommunications Union
LEED®	Leadership in Energy & Environmental Design
LIA	Lead Industries Association
MBMA	Metal Building Manufacturer's Association
MIA	Marble Institute of America
MID	Merced Irrigation District
MIL	U.S. Government, Military Specification
MLSFA	Metal Lath/Steel Framing Association
MM	State of California, Business, Transportation and Housing Agency, Department of Transportation “Materials Manual”
MSS	Manufacturers Standardization Society of Valves and Fittings Industry
NAAB	National Association of Air Balance
NAAMM	The National Association of Architectural Metal Manufacturers
NACE	National Association of Corrosion Engineers
NBFU	National Board of Fire Underwriters
NBGQA	National Building Granite Quarries Association, Inc.
NBHA	National Builders' Hardware Association

NBS	National Bureau of Standards
NCCP	National Communities Conservation Plan
NCMA	National Concrete Masonry Association
NCPWB	National Certified Pipe Welding Bureau
NEBB	National Environmental Balancing Bureau
NECA	National Electrical Contractors Association
NEMA	National Electrical Manufacturers Association
NEPA	National Environmental Protection Act
NETA	National Electrical Testing Association
NFPA	National Fire Protection Association
NHLA	National Hardwood Lumber Association
NIOSH	National Institute of Occupational Safety and Health
NPA	National Particleboard Association
NPDES	National Pollutant Discharge Eliminate System
NRC	Noise Reduction Coefficient
NRCA	National Roofing Contractors Association
NRMCA	National Ready Mixed Concrete Association
NSF	National Sanitation Foundation
NWMA	National Woodwork Manufacturers Association, Inc.
NWWDA	National Wood Window and Door Association
OSHA	Office of Safety and Health Act
OSHPD	Office of Statewide Health Planning and Development
PCA	Portland Cement Association
PCB	Polychlorinated Biphenyl
PCI	Precast/Prestressed Concrete Institute
PDI	Plumbing and Drainage Institute
PI	Perlite Institute
PS	Product Standard of United States Department of Commerce
RCRA	Resource Conservation & Recovery Act
RCSC	Research Council on Structural Connection
RFCI	Resilient Floor Covering Institute
RIS	Redwood Inspection Service
RUS	U.S. Department of Agriculture, Rural Utilities Service
SJVAPCD	San Joaquin Valley Air Pollution Control District
SAE	Society of Automotive Engineers
SBC	State Building Code
SBS	State Building Standards Electrical Code, Title 24, Part 3
SCS	Scientific Certification Systems
SDI	Steel Door Institute
SFM	State of California, Office of State Fire Marshal
SIGMA	Sealed Insulating Glass Manufacturers Association
SJI	Steel Joist Institute
SMACNA	Sheet Metal & Air Conditioning Contractors' National Association, Inc.
SPIB	Southern Pine Inspection Bureau (Grading Rules)
SPR	Simplified Practice Recommendation
SSPC	Society for Protective Coatings
STC	Sound Transmission Coefficient
SWI	Sealant and Waterproofers Institute

SWPPP	Storm Water Pollution Prevention Plan
TCA	Tile Council of America, Inc.
TIA	Telecommunications Industry Association
UBC	Uniform Building Code
UCM	University of California Merced
UCMFM	University of California Merced Facilities Management
UFAS	Uniform Federal Accessibility Standards
UHMW	Ultra-High Molecular Weight
UL	Underwriters' Laboratories, Inc.
USA	Underground Service Alert
USDA	United States Department of Agriculture
USFWS	United States Fish & Wildlife Service
USGBC	United States Green Building Council
USS	United States Standards
USSG	United States Steel Gauge
WAPA	Western Area Power Authority
WCLIB	West Coast Lumber Inspection Bureau
WH	Warnock Hersey
WIC	Woodwork Institute of California
WLPDIA	Western Lath/Plaster/Drywall Industries Association
WRSI	Western Concrete Reinforcing Steel Institute
WWPA	Western Wood Products Association
WWPOA	Western Wood Preserving Operators Association
WWTP	Waste Water Treatment Plant

B. Additional abbreviations, used on the Drawings, are listed thereon.

1.2 SYMBOLS

A. Symbols, used only on the Drawings, are shown thereon.

1.3 DEFINITIONS

A. The following terms, when used on the Drawings or in the Specifications, shall have the following meanings:

1. AS DIRECTED - “As directed by the University's Representative.”
2. AS REQUIRED - “As required by Applicable Code Requirements; by good building practice; by the condition prevailing; by the Contract.”
3. AS SELECTED - “As selected by the University's Representative.”
4. BY OTHERS - Work on this Project that is outside the scope of Work to be performed by the Contractor under this Contract, but that will be performed by the University, Separate Contractors, or other means.
5. EQUAL - Of same quality, appearance, and utility to that specified, as determined by the University's Representative. The Contractor bears the burden of proof of quality.
6. FABRICATED - Items specifically assembled or made out of selected materials to meet individual design requirements.

7. FURNISH - “Supply only, not install (unless required to be provided or installed elsewhere in the Contract Documents).”
8. INSTALL - “Install or apply only, not furnish.”
9. MANUFACTURED – Applies to standard units usually mass-produced.
10. OFF SITE - Outside the Work area as shown on the Drawings or the property lines.
11. PROJECT SITE - Geographical location of the Project.
12. PROVIDE - “Furnish and install.”
13. SHOWN - “As indicated on the Drawings.”
14. SPECIFIED - “As written in the Contract Documents.”
15. SUBMIT - “Submit to University's Representative.”
16. OFCI - UNIVERSITY-FURNISHED, CONTRACTOR INSTALLED - “To be furnished by University and installed by Contractor as part of the Work. Scope of work includes receipt, off-loading, inspection, on-site storage of material and protection after installation until acceptance.”

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 42 13

SECTION 01 45 00
QUALITY CONTROL

PART 1 - GENERAL

1.1 DEFINITIONS

A. The term "University's Testing Laboratory" means a testing laboratory retained and paid for by University for the purpose of reviewing material and product reports and performing other services as determined by the University.

B. The term “Contractor's Testing Laboratory” means a testing laboratory retained and paid for by Contractor to perform the testing services required by the Contract Documents. Contractor's Testing Laboratory shall be an organization other than University's Testing Laboratory and shall be acceptable to the University's Representative. It may be a commercial testing organization, the testing laboratory of a trade association, the certified laboratory of a supplier or manufacturer, Contractor's own forces, or other organization. Contractor's Testing Laboratory shall have performed testing of the type specified for at least 5 years.

C. The term “Geotechnical Engineer” means an engineer retained and paid for by the University for the purpose of performing geotechnical inspection, testing, and observation functions specified by the University.

1.2 CONTRACTOR’S RESPONSIBILITIES REGARDING UNIVERSITY’S TESTING LABORATORY

A. Secure and deliver to University's Testing Laboratory adequate quantities of representative samples of materials proposed for use as specified.

B. Submit a copy of the preliminary design mixes proposed to be used for concrete and other materials that require review by University's Testing Laboratory to the University Representative. University Representative will submit the copy to the University’s Testing Laboratory for review.

C. Submit copies of product test reports as specified.

D. Furnish incidental labor and facilities:

1. To provide University's Testing Laboratory access to the Work to be tested.
2. To obtain and handle samples at the Project site or at the source of the product to be tested.
3. To facilitate inspections and tests.
4. For storage and curing of test samples.

E. Provide a minimum of forty-eight hours notice to University's Representative to allow for University's Testing Laboratory assignment of personnel and scheduling of tests.

F. When material or work to be tested or inspected is not available for testing or inspection, even though notice has been given under Subsection 1.2.E above, Contractor shall

reimburse University for University's Testing Laboratory personnel and travel expenses incurred.

1.3 TESTS AND INSPECTIONS

A. Tests, inspections, and acceptance of portions of the Work required by the Contract Documents or by Applicable Code Requirements shall be made at the appropriate times. Except as otherwise provided, Contractor shall make arrangements for such tests, inspections, and acceptances with Contractor's Testing Laboratory. Contractor shall give the University's Representative a minimum of twenty-four hours written notice of when and where tests and inspections are to be made.

B. If such procedures for testing, inspection, or acceptance reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, Contractor shall bear all costs made necessary by such failure including those of repeated procedures and compensation for the University's Representative's services and expenses.

C. If the University's Representative is to observe tests, inspections, or make acceptances required by the Contract Documents, University's Representative will do so promptly and, where practicable, at the normal place of testing.

D. Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

E. Certain portions of the Work will be tested and/or inspected at various stages. Nothing in any prior acceptance or satisfactory test result shall govern, if at any subsequent time the Work, or portion thereof, is found not to conform to the requirements of the Contract Documents.

1.4 ADDITIONAL TESTING AND INSPECTION

A. If initial tests or inspections made by University's Testing Laboratory or Geotechnical Engineer reveal that any portion of the Work does not comply with the Contract Documents, or if the University's Representative determines that any portion of the Work requires additional testing or inspection, additional tests and inspections shall be made as directed.

1. If such additional tests or inspections establish that such portion of the Work complies with the Contract Documents, all costs of such additional tests or inspections shall be paid by the University.
2. If such additional tests or inspections establish that such portion of the Work fails to comply with the Contract Documents, all costs of such additional tests and inspections, and all other costs resulting from such failure, including compensation for the University's Representative and the University's consultants, shall be deducted from the Contract Sum.

1.5 TEST REPORTS

A. University's Testing Laboratory and General Contractor's Testing Laboratory shall submit 1 copy of all reports to University's Representative, indicating observations and results of tests and indicating compliance or non-compliance with the Contract Documents.

B. The University's Representative shall distribute to the Contractor one copy of the reports from the University's Testing Laboratory.

C. The number of copies for the Contractor and supplier being tested will be determined upon commencement of the Contract.

1.6 CLOSING IN UNINSPECTED WORK

A. Do not allow or cause Work to be covered or enclosed before it has been inspected and approved by the University's Representative. Should any Work be enclosed or covered before it has been approved, it shall be uncovered, inspected, approved or repaired, and covered. Make all repairs necessary to restore Work of others to the condition in which it was found at time of cutting, at no additional cost to the University.

1.7 GEOTECHNICAL ENGINEER

A. All excavation, filling, and compaction shall be subject to inspection, observation, and testing by Geotechnical Engineer. The University will retain and pay expenses of the Geotechnical Engineer to perform the inspection, testing, and observation functions described in this Section, except that the costs of any additional testing or inspection made necessary by inadequate compaction, replacement of unacceptable material or other Work not complying with the Contract Documents shall be borne by the Contractor and may be deducted from the Contract Sum. The Geotechnical Engineer shall communicate with the University's Representative who will relay any appropriate instructions to the Contractor.

B. Source Quality Control: Geotechnical Engineer will sample and test fill material from the source designated by the Contractor. Contractor shall pay for the Geotechnical Engineer's transportation expenses, if the source is more than 50 miles from the Project site.

1.8 JOB CONDITIONS

A. Contractor shall visit the Project site to determine the existing conditions, nature of materials to be encountered and other facts concerning or affecting the Work to be performed under this Contract.

B. The records of investigation of soil or subsurface conditions and logs of test borings that are made available by the University are not part of the Contract and are solely for the convenience of the Bidder or Contractor. It is expressly understood and agreed that the University assumes no responsibility whatsoever in respect to the sufficiency or accuracy of the investigation thus made, the records thereof, or of the interpretations set forth therein, and there is no warranty or guaranty, either express or implied, that the conditions indicated by such investigations or records are representative of those existing throughout such areas or any part thereof, or that unanticipated for developments may not occur, or that materials other than, or in proportions different from those indicated, may not be encountered.

C. The availability or use of the records of investigations of soil or subsurface conditions and/or logs of test borings shall not be construed as a waiver of the Contractor's duty to examine the Project site of the Work contemplated. Contractor is cautioned to make such independent investigations and examinations as necessary to satisfy the Contractor of subsurface conditions to be encountered in the performance of the Work.

D. The records of investigations will not relieve Contractor from the risk of unanticipated soil or subsurface conditions or from properly fulfilling the terms of the Contract at the Contract Sum.

E. Contractor shall promptly, and before such condition is disturbed, notify the University's Representative in writing if soil or subsurface conditions are encountered which require, in the opinion of the University's Representative, design details which differ from those design details shown in the Contract Documents and the University's Representative finds that such revised, design details will cause an increase or decrease in the cost of, or the time required for performance of the Contract, the University's Representative will, after approval by the University, modify the Contract terms in writing to provide for the change in design details and to provide for an adjustment in cost and/or time of performance as permitted in the General Conditions.

1.9 RESPONSIBILITY FOR ACCURACY OF SITE DATA

A. Upon application to the University to do so, the Contractor will be permitted to enter the Project site to put down test holes or trenches to determine the conditions for construction prior to bidding, and subject to compliance with the requirements of Division 1. Such test holes or trenches shall be located at least 10 feet clear of any existing foundations, and/or any existing trees, utilities, or other improvements. Test holes shall be backfilled with granular backfill as specified. The test holes shall be kept full of water during backfilling; the backfill shall be hand shoveled into the hole so that it is completely dispersed and "puddled" as placed. Drill cuttings shall be neatly piled over the hole after backfilling. Material to be excavated is assumed to be earth or other materials that can be removed by power earth moving equipment, including rippers.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 45 00

SECTION 01 51 00
TEMPORARY UTILITIES

AS IT APPLIES

PART 1 - GENERAL

1.1 REQUIREMENTS

A. Contractor shall provide and maintain temporary utilities for construction operations and related necessary temporary structures. Remove them when they are no longer needed.

B. Contractor shall pay for connections/disconnections of all temporary utilities; e.g., gas, water, power, and telephone.

C. Contractor shall pay for connections for water and electricity to Project site sources.

D. University does not guarantee amounts of water and electricity available from existing University's sources, nor will the University be responsible for interruptions in service.

E. Contractor shall maintain and operate systems to provide continuous service.

F. Contractor shall modify and extend systems as required.

G. Materials may be new or used, but shall be adequate for the required purposes. Their use and methods of installation shall not create unsafe conditions or violate requirements of Applicable Codes Requirements.

1.2 REMOVAL AND RECONDITIONING

A. Contractor shall remove all temporary services installed as a requirement of these Contract Documents. Restore utilities to their original condition at the completion of Work.

B. Contractor shall legally and properly dispose of all debris resulting from removal and reconditioning operations.

C. Contractor shall direct Concrete, Drywall and Painting Subcontractors to patch and repair building elements as required by temporary utility removals.

1.3 REQUIREMENTS OF REGULATORY AGENCIES

A. Contractor shall install and use temporary utilities in accordance with latest version of the following:

1. California Electrical Code.
2. Federal, State, and local codes and regulations.
3. Utility company requirements.

1.4 TEMPORARY ELECTRICITY

A. University will not provide electricity free of charge. Contractor shall make connections to

temporary power in coordination with University Representative, and make account arrangements directly with PG&E for that temporary power service. When the temporary power connection is switched over to the University's electrical service the Contractor shall meter their temporary electricity use and will be charged based on average UC Merced rates.

B. Refer to Instructions to Bidders for temporary electrical scope of work and Contractor's responsibility.

1.5 TEMPORARY FIRE PROTECTION

A. Contractors shall conform to the rules, regulations, and instructions of the University and the Merced County Fire Department and such agencies having jurisdiction or identified by the University's Representative. The Contractor shall:

1. Ensure that no burning shall be done on Project site.
2. Provide and maintain fire protection equipment including extinguishers, fire hoses, and other equipment as necessary for proper fire protection during the course of the Work.
3. Use fire protection equipment only for extinguishing fires.
4. Locate fire extinguishers in field offices, storage sheds, tool houses, other temporary buildings, and throughout the Project site.

B. In the area under construction demolition, the Contractor will provide at least 1 multi-purpose dry chemical fire extinguisher for each 3,000-square feet of building floor area. Locate fire extinguishers so that a person never has to walk more than 75 feet to obtain one. Fire extinguisher minimum size must be 4A:20BC (10 pound ABC). Use fire protection equipment only for fighting fires. Any additional fire extinguishers required for the scope of work are to be provided by the General Contractor.

C. Contractor shall assigned a qualified person with authority to maintain fire protection equipment, institute fire prevention measures, be a liaison with the University's Representative, Merced County Fire Department and such agencies having jurisdiction or identified by the University's Representative, and direct the prompt removal of combustible and waste materials from the Project site. Prior to start of Work, the Contractor shall organize a mandatory safety meeting. The attendees at this meeting shall at a minimum include the University's Representative, a representative of the Merced County Fire Department, the Contractor's Project Site Superintendent and the Contractor's Fire Liaison.

D. Contractors shall instruct all subcontractors in the site fire prevention measures, the location of fire extinguishers and the procedures for dealing with fire on site.

E. Call 9-1-1 and pull fire alarm box when applicable, for any emergency. Report the exact location (building name and street intersection) and nature of the emergency. The Contractor is responsible for and will be billed for fire response charges (actual cost of personnel and equipment) for any false alarm and needless call.

F. Refer to Section 01 41 00 Regulatory Requirements for permits required.

G. Vehicles or storage of materials on Project site must not obstruct, block or damage or render useless any fire hydrants, fire department connection, fire alarm box or fire access roadway. Any necessary road closures or disruption to utilities shall be requested through the University's Representative as stated in Section 01 35 00 Special Requirements.

H. Do not tamper with or work on any fire alarm or fire protection system without first gaining authorization from the University's Representative. System shutdown requests shall require a minimum of 48 hours advance notice. Contact University's Representative for any such requests.

I. Contractor shall comply with the University FIRE SYSTEM IMPAIRMENT MANUAL, Exhibit 33 when working on the fire alarm and fire protection system.

1.6 TEMPORARY HEAT, VENTILATION AND AIR CONDITIONING

A. Contractor shall provide temporary heat and ventilation as required by the Instructions to Bidders and as required to maintain adequate environmental conditions to meet specified minimum conditions for installation of materials; and to protect equipment, materials, and finishes from damage due to temperature or humidity for all work. The use of temporary heating appliances will require a Hazardous Condition Permit as specified in Section 01 41 00 Regulatory Requirements.

B. Contractor shall provide adequate forced ventilation of enclosed areas to cure installed materials, to prevent excessive humidity, and to prevent hazardous accumulations of dust, fumes, vapors, or gases for their own work.

1.7 TEMPORARY SANITARY FACILITIES

A. Portable Chemical Toilets and maintenance will be provided by the Contractor.

B. Permanent toilet facilities within an existing building shall not be used without written authorization of the University.

1.8 TEMPORARY TELEPHONE SERVICE

A. The Contractor shall provide a mobile radio system on-site at all times for effective University's Representative communications with the Contractor's field personnel. A radio will be provided to the University's Representative.

1.9 TEMPORARY WATER

A. University will not provide water free of charge. Contractor shall meter temporary water and will be charged based on average UC Merced rates.

B. Water may be taken from University's systems in such quantities and at such times as they are available. If this is done, the Contractor using the water source shall provide all equipment, including metering, connections, and other materials necessary for extending the utility lines to where they will be used. Coordinate the installation with University's Representative. The Contractor shall pay for connections and removal of connections to the local water and power mains.

C. If water is obtained from a campus fire hydrant, the hydrant valve shall not be used as a control valve. Use hydrant wrench; do not use pipe wrench. The Contractor using water source shall provide all valving necessary to control the flow of water.

D. The Contractor shall:

1. Use a reduced pressure backflow preventer shall be used at any connection to University's system, including fire hydrants.
2. Install according to California Administrative Code, Title 17, Section 7603(c), and test immediately after installation by a certified tester in accordance with Title 17, CAC, Section 7605(d).
3. Install piping with taps located so that water is available throughout the Project site by the use of hoses. Protect piping and fittings against freezing.
4. Provide water for human consumption in accordance with the regulatory requirements for potable water.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 51 00

SECTION 01 56 00
TEMPORARY BARRIERS AND ENCLOSURES

AS IT APPLIES

PART 1 - GENERAL

1.1 TEMPORARY FACILITIES

A. Contractor shall provide and maintain the following temporary facilities as required for prosecution of the Contract:

1. All scaffolding, staging, runways, and similar equipment necessary to complete own work is to be provided by the responsible Contractor installing the said work.
2. Temporary rigging, rubbish chutes, ladders between floors and similar equipment shall be provided by the Contractor requiring said work
3. Barricades, lights and similar safety precautions shall be provided by the Contractor requiring said work.
4. OSHA compliant guardrails at floor openings and building perimeter shall be provided as well as toe guards upon placement of concrete slabs, and the Contractor shall maintain the guardrails until they are no longer required at which time they will be removed from the project site.
6. The Contractor shall erect and maintain a temporary OHSA compliant guardrail system around the storm drain and sanitary sewer excavations and shall remove it when directed by the University's Representative.
7. All materials and equipment required to safely accomplish Work under this Section shall be in conformance with requirements of California Occupational Safety and Health act (COSHA), Chapter 5 of CalTrans Traffic Manual and other State and Federal Codes and regulations where applicable.

B. Codes: All temporary Work and facilities shall conform to the above requirements that pertain to operation, safety and fire hazard.

C. Removal: Upon completion of the Work, and before the final payment, the responsible Contractor shall remove all temporary Work and facilities to put the Project site in the condition required by the Contract Documents with no additional cost to the University.

1.2 TEMPORARY PROJECT CONSTRUCTION FENCE

A. The Contractor shall not place any signs, advertisements, notices, or graphic materials on construction fencing that have not been approved in advance by University's Representative.

B. Fencing shall be provided and maintained by Contractor.

C. Contractor is responsible for any damage caused by Contractor's Operations.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 56 00

SECTION 01 60 00
PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 REQUIREMENTS

A. All material and equipment incorporated in the Work shall be:

1. New.
2. In a condition acceptable to the University's Representative.
3. Suitable for intended use.
4. Clean, dry, and undamaged.

1.2 TRANSPORTATION AND HANDLING

A. Arrange for delivery of materials and equipment to minimize length of on site storage prior to installation.

B. All common carrier deliveries shall be marked for the Contractor. Identify location of Project site by Project name, street address, etc.

C. University will not receive deliveries on behalf of the Contractor.

D. Deliver manufactured products and materials in their original unbroken containers or bundles, clearly labeled with manufacturer's name, brand, and grade seal or model number and labels intact until time of use.

E. Handle materials and equipment in a manner to avoid damage to products and their finishes.

F. Promptly remove damaged or defective products from the Project site and replace at no additional cost to the University.

1.3 STORAGE AND PROTECTION

A. Other than Project site, storage space may not be available.

B. Store manufactured products in accordance with manufacturers' instructions and with seals and labels intact and legible.

1. Store products subject to damage by the elements in weather tight enclosures.
2. Maintain temperature and humidity in accordance with manufacturers' recommendations.

C. Exterior Storage

1. Store materials and equipment above ground on blocking or skids to prevent soiling, staining, and damage.
2. Cover products that are subject to damage by the elements with impervious protective sheet coverings. Provide adequate ventilation to prevent condensation.

3. Store sand, rock, or aggregate material in a well-drained area on solid surfaces to prevent mixing with foreign matter.

D. Arrange storage to allow adequate inspection.

E. Periodically inspect stored products to assure that products are maintained under specified conditions and are free from damage and deterioration.

F. Protection After Installation

1. Prevent damage to materials and equipment.
2. Use whatever protective materials or methods are necessary to prevent damage to installed products from traffic, construction operations, and weather. Remove protection when no longer required.
3. Maintain temperature and humidity conditions in interior spaces for the Work in accordance with manufacturers' instructions for the materials and equipment being protected.

1.4 UNDERWRITERS’ LABORATORIES LABEL

A. Materials and equipment, for which Underwriters' Laboratories, Inc. (UL) standards have been established and their label service is available, shall bear the appropriate UL Label.

1.5 MANUFACTURERS’ TRADE MARKS AND NAMES

A. University's Representative reserves the right to review and request the removal or redesign of manufacturers' trade marks and names on items of materials and equipment which will be exposed to view in the completed Work. Such removal or redesign shall be with no adjustment of the Contract Sum.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 60 00

SECTION 01 73 23
SUPPORTING FROM BUILDING STRUCTURE

PART 1 - GENERAL

1.1 DESCRIPTION

A. This Section provides guidelines and limitations all bracing, anchorage and seismic restraints for supporting all mechanical, electrical, plumbing, audio-visual or architectural items from the building structure.

B. The Contractor shall design and install all support and bracing systems except as noted. The Contractor shall provide for attachment to portions of the building structure capable of bearing the loads imposed and shall design systems to not over stress the building structure.

C. The Contractor is not required to design support and bracing for items that the Contract Documents provide specific attachment, support, and bracing.

D. Seismic bracing is not required for the following items:

1. Gas piping less than 1 inch inside diameter.
2. Piping in boiler and mechanical equipment rooms less than 1.25 inches inside diameter.
3. All other piping less than 2.5 inch inside diameter, unless racked together.
4. All piping and duct suspended by individual hangers 12 inches or less in length.
5. All rectangular air handling ducts less than 6 square feet in cross sectional area.
6. All round air handling ducts less than 28 inches in diameter.
7. All electrical conduits less than 2.5 inches inside diameter, unless racked together.

1.2 QUALITY ASSURANCE

A. Design and install all support systems to comply with the Seismic Design Category D requirements of the 2007 California Building Code (CBC), Chapter 16 and ASCE 7-05, Chapter 13.

B. For seismic bracing design use the services of a structural engineer licensed in California.

C. For seismic bracing for mechanical, electrical and plumbing systems, refer to the Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA), "Guidelines for Seismic Restraints of Mechanical Systems and Plumbing Piping Systems" for guidelines.

1.3 SUBMITTALS

A. Submit Shop Drawings for all substructures and attachment methods in accordance with Section 01 33 23 Shop Drawings, Product Data and Samples.

B. Submit proposed alternative methods of attachment for review and approval by the University's Representative prior to deviating from the requirements given below.

C. For all seismic bracing systems, submit structural calculations and details prepared and signed by the General Contractor's licensed engineer that include all resultant forces applied to the building structure. Do not over stress building structure. Calculations will be reviewed for compliance with design criteria, not for arithmetic.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Furnish all substructures and fasteners required to comply with the limitations given below. Use materials as specified in the various Sections and as appropriate to the use.

B. Channel framing systems: as required to meet Project design.

C. All exterior materials: hot-dipped galvanized or stainless steel.

PART 3 - EXECUTION

3.1 SEISMIC BRACING

A. In applying formulae (13.3-1), (13.3-2), (13.3-3) or (13.3-4) from Chapter 13 of ASCE 7-05 the following minimum values, unless otherwise required by ASCE 7-05, shall apply:

$I_P = 1.0$

$S_{DS} = 0.48$

B. Design and install seismic bracing so as not to defeat the operation on any required vibration isolation or sound isolation devices.

END OF SECTION 01 73 23

SECTION 01 73 29
CUTTING, PATCHING AND MATCHING

PART 1 - SUMMARY

1.1 DESCRIPTION

A. Work Included

1. Patching and matching existing Work altered or disturbed to accommodate new construction.
2. Patching and matching existing Work damaged or defaced during new construction as required to restore to condition at time of award of Contract.
3. Matching of new Work in existing construction to adjacent existing Work unless otherwise noted.
4. Execute cutting, patching and matching in a manner to prevent damage to other Work and to provide proper surfaces for the installation of repairs, penetrations through surfaces, equipment, or other items.

1.2 SUBMITTALS

A. Submit in accordance with Section 01 33 23 Shop Drawings, Product Data and Samples.

B. Product Literature and Shop Drawings: Submit for review materials, methods, or systems different from existing Work to be matched.

C. Samples as requested by the University’s Representative.

1.3 QUALITY ASSURANCE

A. Design Criteria

1. Patching shall achieve security and protection where exposed to weather, and shall preserve the continuity of existing fire ratings.
2. Cutting, patching and matching shall successfully duplicate the undisturbed adjacent finishes, colors, textures, and profiles. Where there is dispute over whether the duplication is successful or has been achieved to a reasonable degree, the judgment of the University’s Representative shall be final.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in the original packages, containers or bundles with seals unbroken and labels intact until time of use.

1.5 PROJECT CONDITIONS

A. Environmental Requirements: Follow the manufacturer's recommendations.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Materials shall be as required to match the appearance, quality and performance of the existing finishes to be duplicated.

B. Where the existing finish to be duplicated was achieved with materials now out of production or otherwise unavailable, obtain review and acceptance by the University's Representative of substitutions.

C. Provide primers, sealers, underlayments, backing, blocking, furring, suspension systems, and related items required for any purpose in patching existing Work.

D. Materials shall be subject to the review of and acceptance by the University's Representative.

PART 3 - EXECUTION

3.1 GENERAL REQUIREMENTS

A. Perform Work in accordance with the manufacturer's recommendations, deviating only as directed by the University's Representative to achieve a good match.

B. For the following items, the Contractor shall employ the installer or fabricator to perform any cutting, patching or matching of such items:

1. Weather-exposed or moisture-resistance elements.
2. Fireproofing.
3. Finishes surfaces exposed to view.

C. Adjust and fit products to provide a neat installation.

D. Inform the University's Representative of locations where Work will be noisy, and obtain the University's Representative approval of the times during which such Work will be done; otherwise keep noise to a minimum.

E. Finish or refinish surfaces as required to match adjacent finishes. Refinish to nearest intersection or refinish entire assembly.

F. Patching of ceramic tile surfaces in buildings:

1. Restore to pre-existing new condition, using specified materials.

3.2 PAINTING

A. Extent of Painting

1. Paint over the entire surface plane, unless otherwise noted.
2. Over patched wall, soffit, or ceiling surfaces, paint to the nearest cut-off line for the entire surface, such as the intersection with the adjacent wall or ceiling, a beam,

a pilaster, or to nearest opening frame where a total cut-off does not occur within 10 feet of the patch, unless otherwise noted.

B. Ensure painted surfaces do not present a spotty, touched-up appearance.

C. Provide a smooth continuous surface in texture, coverage, and color.

3.3 PAVEMENT

A. Asphaltic and Portland Cement concrete shall be patched to match adjacent surfaces and thickness, with similar material; e.g., exposed aggregate concrete, colored concrete, etc.

B. All damaged concrete shall be removed and replaced to the nearest existing expansion or control joint, where joints were constructed to the full depth of the slab, not at surface scribed or sawn joints unless specifically approved by the University's Representative

C. Restore pavement markings.

D. Other paving materials and systems such as decomposed granite; stone pavers, etc. shall be replaced or restored in kind. Replace or restore an entire panel or area to present a uniform appearance to the satisfaction of the University’s Representative.

E. All new surfaces shall be within 1/4-inch elevation of adjacent surfaces. All slopes to adjacent surfaces shall be less than 1 in 20, unless approved by University’s Representative.

3.4 LANDSCAPING AND IRRIGATION

A. Restore to pre-existing condition, using similar materials.

END OF SECTION 01 73 29

SECTION 01 77 00
CLOSEOUT PROCEDURES, FINAL CLEANING, AND EXTRA MATERIAL

PART 1 - GENERAL

1.1 FINAL COMPLETION

A. When Work is complete, submit written certification to University's Representative that:

1. Work has been inspected by the General Contractor for compliance with the Contract Documents.
2. Work has been completed in accordance with the Contract Documents.
3. Equipment and systems have been tested in presence of the University's Representative and are operational.
4. Work is complete and ready for final inspection.

1.2 PREPARATION FOR FINAL INSPECTION

A. Perform final cleaning as specified below.

B. In accordance with Section 01 78 36 Guarantees, Warranties, Bonds, Service & Maintenance Contracts, assemble guarantees/warranties with service and maintenance contracts, operating and maintenance instructions, and other items as specified, and submit to the University's Representative.

1.3 FINAL CLEANING

A. Upon completion of the Work, the General Contractor shall promptly remove from the Project site and Project site vicinity (including roofs):

1. All of General Contractor's equipment
2. All temporary structures
3. All surplus material, including construction debris, lumber, etc.
4. Remove waste, surplus materials and rubbish from Project site, including roof areas.

B. The entire Project site shall be left in a neat and clean condition to the satisfaction of the University’s Representative.

C. The General Contractor shall execute final cleaning prior to final inspection. Cleaning shall be by experienced professional cleaners.

D. The General Contractor shall:

1. Clean interior and exterior surfaces exposed to view; remove temporary labels, stains and foreign substances, polish glass and glossy surfaces, vacuum carpeted and soft surfaces, broom clean other interior spaces.

2. Clean equipment and fixtures to a sanitary condition, clean permanent filters and replace disposable filters of mechanical equipment operated during construction.
3. Clean ducts, blowers and coils if units were operated without filters during construction.
4. Vacuum and wipe sides of electrical panels and cabinetwork.
5. Comply with manufacturer's instructions for cleaning.
6. Clean each surface or unit to condition expected from normal, commercial building cleaning and maintenance program.
7. Clean Project site, sweep paved areas, rake clean ground surfaces.
8. Remove stains, dirt, finger marks, etc., from wall and ceiling surfaces and trim.
9. Disinfect, clean and polish all plumbing fixtures.
10. Use cleaning materials and methods that will not create hazards to health or property or cause damage to products or Work.
11. Remove temporary tapes, wrapping, coatings, paper labels, and similar items. Dust, mop, wash or wipe exposed and semi-exposed surfaces as necessary to leave work in new, clean condition.

1.4 RESTORATION OF DAMAGED WORK

A. Restore or replace, as specified or directed by the University's Representative, materials and finishes damaged from movement of equipment or other operations by General Contractor at no additional cost to the University.

B. Restoration shall be equal to original Work, and finishes shall match appearance of existing adjacent Work.

1.5 REMEDIAL WORK

A. Remedial Work necessary owing to faulty workmanship or materials shall be performed by the General Contractor at no additional cost to the University.

B. Work shall be coordinated with University’s Representative and performed at such time and in such manner to cause minimal interruption and inconvenience to University’s operations.

1.6 EXTRA MATERIAL

A. In the various Sections, where additional or extra material is required to be delivered to the University, obtain from the University's Representative, to whom the material is to be delivered, a signed receipt stating the nature of the material, the quantity, and the place and date. Deliver such receipts to the University's Representative upon completion of the Work.

B. In addition to required parts listed in other Sections of the Specification, provide any special programming software and database tools necessary to operate systems.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 77 00

SECTION 01 78 36

GUARANTEES, WARRANTIES, BONDS, SERVICE & MAINTENANCE CONTRACTS

PART 1 - GENERAL

1.1 GUARANTEES

A. Guarantees from Subcontractors shall not limit General Contractor's warranties and guarantees to the University. The General Contractor shall cause warranties of Subcontractors to be made directly to the University. If such warranties are made to the General Contractor, General Contractor shall assign such warranties to the University prior to final payment.

B. At a minimum, the General Contractor shall warrant that all work installed under this Contract is free of defect and will remain in good working order for a period of one year for all surface improvements and five years for all underground work. If warranties specified elsewhere in these documents are for a longer period of time than that specified in this section, the longer warranties shall apply.

1.2 FORM OF GUARANTEE

A. Submit written guarantees, in the form of Guarantee/Warranty Form (Exhibit 16) in accordance with Section 01 33 23 Shop Drawings, Product Data and Samples.

1.3 SUBMITTAL REQUIREMENTS

A. Assemble required guarantees, bonds, and service and maintenance contracts.

B. Number: 1 signed original and 2 copies.

C. Table of Contents: Neatly typed and in orderly sequence. Provide complete information for each item as follows:

1. Product or Work item.
2. Firm name, address, telephone number and name of principal.
3. Scope.
4. Identifying name, serial number or part number.
5. Proper procedure in case of failure.
6. Circumstances that might affect the validity of guarantee or bond.

1.4 FORM OF SUBMITTAL

A. Prepare in duplicate packets.

B. Format

1. On sheets 8-1/2 by 11 inches punched for 3-ring binder. Fold larger sheets to fit into binders.

2. Identify each packet on the cover with typed or printed title, "Guarantees and Bonds", and the following:
   a. Project No.
   b. Title of Project.
   c. Name of General Contractor.

C. Binders: Commercial quality, 3-ring, with durable and cleanable plastic covers.

D. Time of Submittals

1. Within 10 days after date of Substantial Completion, prior to request for final payment.
2. For Work activities, where Final Completion is delayed beyond the date of Substantial Completion, provide updated submittal within 10 calendar days after Final Completion, listing the date of Final Completion as the start of the Guarantee To Repair Period.

1.5 SUBMITTALS REQUIRED

A. Submit guarantees, bonds, and service and maintenance contracts specified in the individual Specification Sections.

B. Compile all warranties from the specified individual Specification Sections. Submit those in a commercial, 3-ring binder with durable and cleanable plastic covers.

1.6 SPARE PARTS AND MAINTENANCE MATERIAL

A. Provide products, spare parts, maintenance and extra materials in quantities specified in individual Specification Sections.

B. Deliver to Project site and place in location as directed by the University's Representative and obtain receipt prior to final payment.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 78 36

SECTION 01 79 00
TRAINING

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section contains requirements for training the University's personnel, by persons retained by the Contractor specifically for the purpose of providing training in the proper operation and maintenance of the equipment and systems installed under this contract.

1.2 RELATED WORK AND DOCUMENTS

A. Section 01 91 00 Commissioning

B. Division 14 Conveying Systems

C. Division 21 Fire Suppression

D. Division 22 Plumbing

E. Division 23 Heating, Ventilating and Air-Conditioning (HVAC)

F. Division 26 Electrical

G. Division 27 Communications

H. Division 28 Electronic Safety and Security

1.3 QUALITY ASSURANCE

A. When required by the Contract documents, the Contractor shall provide on-the-job training of the University's personnel. The training sessions shall be conducted by qualified, experienced, factory-trained representatives of the various equipment manufacturers. Training shall include instruction in both operation and maintenance of the subject equipment.

1.4 SUBMITTALS

A. The following information shall be submitted to the University's Representative in accordance with the provisions of Section 01 33 23 Shop Drawings, Product Data and Samples. The material shall be reviewed and accepted by the University's Representative as a condition precedent to receiving progress payments in excess of 50 percent of the contract amount and not less than 3 weeks prior to the provision of training:

B. Lesson plans for each training session to be conducted by the manufacturer's representatives. In addition, training manuals, handouts, visual aids, and other reference materials shall be included.

C. Subject of each training session, identity and qualifications of individuals to be conducting the training, and tentative date and time of each training session.

D. CD recordings shall be taken by a professional photographer, of all training sessions and field instructions shall be submitted to the University at conclusion of training.

PART 2 - PRODUCTS

2.1 GENERAL

A. Where specified, the Contractor shall conduct training sessions for the University's personnel to instruct the staff on the proper operation, care, and maintenance of the equipment and systems installed under this Contract. Training shall take place at the site of the Work and under the conditions specified in the following paragraphs. Approved operation and maintenance manuals shall be available at least 30 calendar days prior to the date scheduled for the individual training session. Contractor shall ensure that Operation and Maintenance manuals have approved by the Design Team and the required number of O&M manuals have been provided to the University's Representative at least 2 weeks in advance of training.

2.2 LOCATION

A. Training sessions shall take place at the Project Site.

2.3 LESSON PLANS

A. Formal written lesson plans shall be prepared for each training session. Lesson plans shall contain an outline of the material to be presented along with a description of visual aids to be utilized during the session. Each plan shall contain a time allocation for each subject.

B. One complete set of originals of the lesson plans, training manuals, handouts, visual aids and reference material shall be presented to the University and shall be suitably bound for proper organization and easy reproduction. The Contractor shall furnish at least 10 copies of necessary training manuals, handouts, visual aids and reference materials at least 1 week prior to each training session.

2.4 FORMAT AND CONTENT

A. Each training session shall be comprised of time spent both in the classroom and at the specific location of the subject equipment or system. As a minimum, the training session shall cover the following subjects for each item of equipment or system:

1. Familiarization
   a. Review catalog, parts lists, drawings, etc., which have been previously provided for the plant files and operation and maintenance manuals.
   b. Check out the installation of the specific items.
   c. Demonstrate the unit and indicate how all parts of the specifications are met.
   d. Answer questions.
2. Safety
   a. Using material previously provided, review safety references.
   b. Discuss proper precautions around equipment.

3. Operation
   a. Using material previously provided, review reference literature.
   b. Explain all modes of operation (including emergency).
   c. Check out University's personnel on proper use of the equipment.
4. Preventative Maintenance
   a. Using material previously provided, review preventive maintenance (PM) lists including
      (1) Reference material.
      (2) Daily, weekly, monthly, quarterly, semiannual and annual jobs.
   b. Show how to perform PM jobs.
   c. Show University's personnel what to look for as indicators of equipment problems.
5. Corrective Maintenance
   a. List possible problems.
   b. Discuss repairs – point out special problems.
   c. Open up equipment and demonstrate procedures, where practical.
6. Parts
   a. Show how to use previously provided parts list and order parts.
   b. Check over spare parts on hand. Make recommendations regarding additional parts that should be available.
7. Local Representatives
   a. Describe where to order parts: Name, address, telephone and Email address.
   b. Describe service problems:
      (1) Who to call.
      (2) How to get emergency help.
8. Operation and Maintenance Manuals
   a. Review any other material submitted.
   b. Update material, as required.

PART 3 - EXECUTION

3.1 TRAINING

A. Training shall be conducted in conjunction with the operational testing and commissioning periods. Classes shall be scheduled such that classroom sessions are interspersed with field instruction in logical sequence. The Contractor shall arrange to have the training conducted on consecutive days, with no more than 6 hours of classes scheduled for any one day. Concurrent classes shall not be allowed. Training shall be certified by listing attendees and subjects covered.

B. Acceptable operation and maintenance manuals for the specific equipment shall be provided to the University prior to the start of any training. Videotaping shall take place concurrently with all training sessions. All training sessions and field instruction shall be videotaped by the Contractor and tapes of all classes submitted to the University.

C. The following services shall be provided for each item of equipment or system as required in individual specification sections. Additional services shall be provided, where specifically required in individual specification sections.

1. As a minimum, classroom equipment training for operations personnel shall include:
   a. Using slides and drawings, discuss the equipment's specific location in the plant and an operational overview.
   b. Purpose and plant function of the equipment.
   c. A working knowledge of the operating theory of the equipment.
   d. Startup, shutdown, normal operation, and emergency operating procedures, including a discussion on system integration and electrical interlocks, if any.
   e. Identify and discuss safety items and procedures.
   f. Routine preventative maintenance, including specific details on lubrication and maintenance of corrosion protection of the equipment and ancillary components.
   g. Operator detection, without test instruments, of specific equipment trouble symptoms.
   h. Required equipment exercise procedures and intervals.
   i. Routine disassembly and assembly of equipment if applicable (as judged by the University on a case-by –case basis) for purposes such as operator inspection of equipment.
2. As a minimum, hands-on equipment training for operations personnel shall include:
   a. Identify location of equipment and review the purpose.
   b. Identifying piping and flow options.
   c. Identifying valves and their purpose.
   d. Identifying instrumentation:
      (1) Location of primary element
      (2) Location of instrument readout.
   e. Discuss purpose, basic operation, and information interpretation.
   f. Discuss, demonstrate, and perform standard operating procedures and round checks.
   g. Discuss and perform the preventative maintenance activities.
   h. Discuss and perform startup and shutdown procedures.
   i. Perform the required equipment exercise procedures.
   j. Perform routine disassembly and assembly of equipment if applicable.
   k. Identify and review safety items and perform safety procedures, if feasible.
3. As a minimum, classroom equipment training for the maintenance and repair personnel shall include:
   a. Theory of operation.
   b. Description and function of equipment.
   c. Startup and shutdown procedures.
   d. Normal and major repair procedures.
   e. Equipment inspection and troubleshooting procedures including the use of applicable test instruments and the "pass" and "no pass" test instrument readings.
   f. Routine and long-term calibration procedures.
   g. Safety procedures.
   h. Preventative maintenance such as lubrication; normal maintenance such as belt, seal, and bear replacement; and up to major repairs such as

replacement of major equipment part(s) with the use of special tools, bridge cranes, welding jigs, etc.

4. As a minimum, hands-on equipment training for maintenance and repair personnel shall include:
   a. Locate and identify of equipment components.
   b. Review the equipment function and theory of operation.
   c. Review normal repair procedures.
   d. Perform startup and shutdown procedures.
   e. Review and perform the safety procedures.
   f. Perform University approved practice maintenance and repair job(s) including mechanical and electrical adjustments and calibration and troubleshooting equipment problems.

END OF SECTION 01 79 00

SECTION 01 91 00
COMMISSIONING

AS APPLIES

PART 1 GENERAL

1.1 WORK INCLUDED

A. Work included in this section: Oversight, coordination, and documentation of the following:

1. Commissioning of selected systems and equipment specified under Division 13 Special Construction.
2. Commissioning of selected systems and equipment specified under Division 14 Conveying Systems
3. Commissioning of selected systems and equipment specified under Division 21 Fire Suppression
4. Commissioning of systems and equipment specified under Division 22 Plumbing
5. Commissioning of systems and equipment specified under Division 23 Heating, Ventilating, and Air-Conditioning (HVAC)
6. Commissioning of systems and equipment specified under Division 26 Electrical
7. Commissioning of systems and equipment specified under Division 27 Communications
8. Commissioning of systems and equipment specified under Division 28 Electronic Safety and Security

1.2 RELATED SECTIONS AND REQUIREMENTS

A. Requirements of Division 1 General Requirements apply to all work in this section.

B. Related Sections:

1. Section 01 79 00 Training.
2. Section 14 24 00 Hydraulic Elevators
3. Section 21 12 00 Standpipes and Hose Valves
4. Section 21 13 00 Fire Sprinklers
5. Section 22 11 16 Domestic Water Piping
6. Section 22 13 16 Sanitary Waste and Vent Piping
7. Section 22 14 16 Storm Drainage Piping
8. Section 22 16 00 Plumbing Specialties
9. Section 22 35 00 Domestic Water Heat Exchangers
10. Section 22 35 01 Domestic Water Heat Exchangers
11. Section 22 40 00 Plumbing Fixtures
12. Section 22 47 00 Drinking Fountains and Water Coolers

13. Section 23 05 13 Motors and Controllers
14. Section 23 05 16 Piping Specialties
15. Section 23 05 23 Valves
16. Section 23 21 12 Heating and Cooling Piping
17. 23 21 13 Exposed Hydronic Piping, Valves and Accessories (Utilities)
18. Section 23 21 23 Pumps
19. Section 23 31 13 Ducts
20. Section 23 34 00 Fans
21. Section 23 33 00 Duct Accessories
22. Section 23 34 00 Fans
23. Section 23 36 00 Air Terminal Units
24. Section 23 37 00 Air Outlets and Inlets
25. Section 23 40 00 Air Cleaning Devices
26. Section 23 73 23 Air Handling Units and Coils
27. Section 23 97 00 Mechanical Commissioning
28. Section 26 08 00 Commissioning of Electrical Systems (Utilities)
29. Section 26 97 00 Electrical System Commissioning.
30. Section 23 90 33 EMCS Commissioning.

1.3 GENERAL

A. Building Commissioning is a quality assurance process that has as its goal that all systems perform interactively and according to design intent under the full range of expected operating conditions. The Contractor shall ensure that all systems are fully commissioned and that commissioning is fully documented as specified in this Section.

B. Commissioning Team. The Commissioning Team for the construction and post-construction period shall include:

1. Contractor Members:
   a. Commissioning Coordinator (see paragraph 1.3C).
   b. Division 13, Division 14, Division 21, Division 22, Division 23, Division 26, Division 27 and Division 28 project managers plus key subcontractors where appropriate, including the Test & Balance Subcontractor.
2. University Members:
   a. University’s Representative.
   b. University plant operator/engineer (during the functional testing and training phases only).
   c. University’s Design Professional.

C. Commissioning Coordinator:

1. The Contractor shall procure and provide the services of the Commissioning Coordinator.
2. Qualifications:
   a. Cumulative of eight or more years experience in one or more of the following for projects of similar size and complexity:
      1) Building mechanical or electrical system commissioning.

2) Building mechanical or electrical system construction project management.
3) Building mechanical or electrical system coordination services for a Contractor.
4) Building mechanical system test & balance project management.

b. Five or more years of experience with project management software such as MS Project or equal.
c. Either an employee of or direct subcontractor to the General Contractor.

3. Services to be provided: See paragraph 3.1.

1.4 SUBMITTALS

A. See Section 01 33 23 Shop Drawings, product Data and Samples.

B. Commissioning Coordinator Qualifications. Prior to any commissioning work taking place, submit Commissioning Coordinator's resume listing applicable experience for review and approval by the University's Representative.

C. Equipment submittals and shop drawings:

1. See Divisions 13, 14, 21, 22, 23, 26, 27 and 28

D. Commissioning Reports:

1. Start-up and Factory Tests.
   a. See Divisions 13, 14, 21, 22, 23, 26, 27 and 28 for requirements.
   b. Compile after all equipment has been started and submit five copies to University's Representative for review and approval.
2. Pre-functional Tests:
   a. See Divisions 13, 14, 21, 22, 23, 26, 27 and 28 for checklists.
   b. Compile after all equipment pre-functional forms have been completed and submit five copies to University's Representative for review and approval.
3. Test and Balance Reports.
   a. See Section 15950 Testing, Adjusting and Balancing for content and quantity of reports.
   b. Include only those reports developed after spot checks and associated rebalancing have been completed.
4. Functional Tests:
   a. See Division 22,23, 26 and 28 for forms.
   b. Compile after all tests have been completed and submit five copies to University's Representative for review and approval.
5. Demonstration Tests:
   a. Tests will be a subset of Functional Tests and will be identified one day prior to the Tests by the University's Representative. See Divisions 22,23, 26 and 28 for expected time required.
   b. Compile after all tests have been completed and submit five copies to University's Representative for review and approval.
6. Trend Reviews:

a. Data to be provided to University's Representative in electronic format specified in Division 22,23, 26 and 28.

7. Final Report:
   a. Include the following completed documentation:
      1) System/Equipment Matrix (see Paragraph 3.1A.2).
      2) Start-up and Factory Tests.
      3) Test and Balance Reports.
      4) Pre-functional test documentation.
      5) Functional test documentation.
   b. Format and Procedure:
      1) Submit two draft copies for review and comment by University's Representative, who will return one copy.
      2) Make changes noted on returned copy and compile final draft.
      3) Submit Final Report in the following format:
         a) Five bound copies.
         b) One electronic copy on CD in format readable by software on Operator's Workstation, as specified in Division 22,23, 26 and 28. Reports may be scanned from paper copies but word-searchable electronic versions preferred.
         c) One electronic copy as above copied onto the Operator's Workstation server.
8. Operations and Maintenance Manuals: See Divisions 13, 14, 21, 22, 23, 26, 27 and 28.
9. Training manuals: See Section 01664 Training and Divisions 13, 14, 21, 22, 23, 26, 27 and 28.
10. Re-commissioning Management Manual
   a. Prepare and submit 1 copy of a Re-commissioning Management Manual containing the following information organized into a 3-ring binder with tabbed sections as listed.
      1) Design Intent. (Material provided by the University's Representative)
         a) Final version of the owner's requirements and design basis narratives, including brief descriptions of each system.
      2) Controls. (Material provided by Division 17 General Contractor.)
         a) As-built sequences of operation for all equipment.
         b) Controls drawings
         c) A list of time of day schedules and a schedule to review them for relevance and efficiency.
         d) A list of all user adjustable setpoints and reset schedules with rationale for their selection and range.
      3) Energy and Water Efficiency Measures. (Material provided by University Representative.)
         a) A description and rationale for all energy and water saving features and strategies with operating and instructions.

b) Guidelines for establishing and tracking benchmarks for whole building energy use and equipment efficiencies of cooling, heating, and service hot water equipment.

4) Seasonal Issues. Not applicable to UC Merced projects.

5) Calibration. (Material provided by Division 22,23, 26 and 28)

a) Recommendations for recalibration frequency of sensors and devices by type and use.

6) Continuing Commissioning Plan (Material provided by University Representative.)

a) Recommended frequency for re-commissioning by equipment type or system, with reference to tests conducted during initial commissioning.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 COMMISSIONING COORDINATION

A. Commissioning Coordinator shall:

1. Prepare schedule of commissioning activities specified in Divisions 13, 14, 21, 22, 23, 26, 27 and 28 including:
   a. Submission of equipment submittals and shop drawings
   b. Equipment start-up and pre-functional tests
   c. Factory start-up and inspection of equipment
   d. Test and balance
   e. EMCS calibration and start-up
   f. Electrical system functional testing
   g. EMCS system functional testing
   h. EMCS demonstration tests (to University's Representative)
   i. EMCS trending initiation
   j. EMCS trend review data distribution (to University's Representative)
   k. Submission of operations and maintenance manuals
   l. Development and submission of record drawings
   m. Training of University personnel
   n. Preparation of Final Commissioning Report
2. Prepare a system and equipment commissioning matrix with a line item for each piece of equipment and each subsystem specified to be commissioned under Division 13, 14, 21, 22, 23, 26, 27 and 28. The System/Equipment matrix shall include for each line item:
   a. Equipment tag or name.
   b. Service.
   c. Location.
   d. Responsible subcontractor.
   e. The due date and actual completion date for the following (where applicable):
      1) Submittals.
      2) Shop drawings.
      3) Factory test.

4) Equipment set.
5) Preliminary operations and maintenance manuals indicating start-up procedures.
6) Pre-start verification.
7) Equipment start-up.
8) Pre-functional test.
9) Test and balance.
10) Functional performance test.
11) Operations and maintenance manuals.
12) Record drawings.
13) Training.

3. Complete the commissioning matrix as activities are completed, and distribute to Commissioning Team at least one day prior to each Team meeting or when requested by University's Representative.
4. Schedule and chair meetings of Commissioning Team:
   a. Commissioning Team shall be notified of all meeting times and locations at least two weeks prior to the meeting.
   b. Contractor Members of Commissioning Team shall attend all scheduled meetings; University Members of Commissioning Team shall be invited to all meetings and attend where they feel their attendance is beneficial or where required to witness demonstration tests and training.
   c. Prior to start of construction until 30 days prior to start-up of any equipment:
      1) One scoping meeting shall occur prior to any Division 13, 14, 21, 22, 23, 26, 27 and 28 submissions of equipment submittals or shop drawings. Meeting shall include a discussion of preliminary commissioning schedule and roles of each Team member.
      2) Bi-monthly progress meetings (more frequent if required in the judgment of the Commissioning Coordinator; less frequent if requested by the Commissioning Coordinator and approved by the University's Representative).
   d. 30 days prior to start-up of any equipment through start of functional testing: Bi-weekly progress meetings (more frequent if required in the judgment of the Commissioning Coordinator; less frequent if requested by the Commissioning Coordinator and approved by the University's Representative).
   e. During functional testing until their completion: Weekly progress meetings (more frequent if required in the judgment of the Commissioning Coordinator; less frequent if requested by the Commissioning Coordinator and approved by the University's Representative).
   f. After functional testing until all commissioning documentation is complete: Meetings as required in the judgment of the Commissioning Coordinator.
5. Supervise pre-functional and functional testing performed by Contractor's Members of Commissioning Team:
   a. Coordinate tests among Team Members and schedule tests so that required work for each trade is complete prior to tests being performed.

b. Ensure that tests are successfully completed by reviewing test forms for completeness and positive response, and ensuring forms have been signed by the Team Member who performed the work. (The Commissioning Coordinator is not required to perform or witness any pre-functional or functional tests.)
c. Compile test documentation and submit to the University's Representative for review and approval.
d. Coordinate and ensure resolution of punchlists from University's Representative.

6. Supervise and witness demonstration tests performed by Contractor's Members of Commissioning Team, also witnessed by the University's Members of the Commissioning Team:
   a. Compile test documentation and submit to the University's Representative for review and approval.
   b. Coordinate and ensure resolution of punchlists from the University's Representative.
   c. Coordinate retesting where required until tests are successfully completed.
7. Coordinate EMCS post-construction and post-occupancy trend reviews with Division 22,23, 26 and 28:
   a. Ensure trends are initiated as specified in Division 17. The post-construction review will occur directly after functional testing is complete (see Division 17 for exact time period). Two post-occupancy reviews will occur, one after approximately 6 months of operation, and one approximately two months prior to the end of the warranty period.
   b. Ensure data is transmitted in required format to University's Representative.
   c. Coordinate and ensure resolution of trend review punchlists from the University's Representative.
   d. Coordinate retesting where required until tests are successfully completed.
8. Maintain a master deficiency and resolution log developed from punchlists, including status and date of resolution of each deficiency. Provide the University's Representative with regular progress reports.
9. Coordinate and confirm completion of training of University personnel as specified under Divisions 13, 14, 21, 22, 23, 26, 27 and 28.
10. Compile and submit Final Commissioning Report.
11. Compile and submit the Re-commissioning Management Manual.

3.2 REMEDIAL WORK

A. Remedial work shall be performed at no additional cost to the University.

B. Remedial work shall include re-performing any commissioning or other tests related to remedial work once remediation is complete at no additional cost to the University.

3.3 SYSTEM ACCEPTANCE

A. Specified Division 13, 14, 21, 22, 23, 26, 27 and 28 systems shall be considered commissioned and substantially complete when the following have been submitted and approved by University Representative:

1. Final Commissioning Report.
2. Post-construction trend review.
3. Other completion documentation as defined in Divisions 22, 23, 26 and 28, including University sign-off that training has been completed.
4. All remedial action associated with punchlists developed by the University's Representative.

B. Remedial action required to address deficiencies identified by post-occupancy trend reviews shall be covered by the system warranty at no additional cost to the University.

END OF SECTION 01 91 00

SECTION 01 92 00
OPERATING AND MAINTENANCE

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Compile Product Data and related information appropriate for University's maintenance and operation of products provided under this Contract.

B. Prepare operating and maintenance data as specified herein and as specified in individual Specification Sections.

C. Instruct University's personnel in the maintenance and operation of equipment and systems.

1.2 FORM OF SUBMITTAL

A. Prepare data in the form of an instructional manual for use by University's personnel in both electronic and hard copy formats.

1. Electronic Format
   a. The Contractor may scan the documents using word searchable software or any other appropriate means so long as the resulting image is legible and word searchable when viewed from the provided CD-ROM using a computer.
2. Hard Copy Format
   a. Size: 8-1/2 by 11 inches.
   b. Paper: 20 lb minimum, white, for typed pages.
   c. Text: Manufacturers' printed or neatly typewritten data.
   d. Drawings
      (1) Provide reinforced punched binder tab that is bound with the text.
      (2) Fold larger drawings to the size of the text pages.
   e. Provide flyleaf for each separate product or each piece of operating equipment.
      (1) Provide typed description of products and major component parts of equipment.
      (2) Provide indexed tabs.
   f. Cover: Identify each volume with typed or printed title “Operating and Maintenance Instructions”. List the following:
      (1) Project No.
      (2) Title of Project.
      (3) Identify general subject matter covered in the volume.
   g. Binders
      (1) Commercial quality three-ring binders with durable and cleanable plastic covers.
      (2) When multiple binders are used, correlate the data into related groups.

3. Submit Operations and Maintenance manual on or before 75 percent progress payment submittal.

1.3 CONTENT OF MANUAL

A. Table of Contents: Include in each volume, neatly typewritten.

1. Identify Contractor, name of responsible principal, address, and phone number.
2. List each product included, indexed to the content of the volume.
3. List, with each product, the name, address, and telephone number of:
   a. Subcontractor or installer.
   b. Maintenance contractor, as appropriate.
   c. Identify area of responsibility of each of the previously mentioned parties.
   d. Nearest source of supply for parts and replacement.
4. Identify each product by product name, serial number, part number and any other identifying symbols necessary.
5. Identify the location of the installed product.

B. Product Data

1. Include only those sheets that are pertinent to the specific product.
2. Annotate each sheet to:
   a. Clearly identify the specific product or part installed.
   b. Clearly identify the data applicable to the installation.
   c. Delete references to inapplicable information.

C. Drawings

1. Supplement Product Data with drawings as necessary to clearly illustrate:
   a. Relations of component parts of equipment and systems.
   b. Control and flow diagrams.
2. Coordinate drawings with information in Project record documents to assure correct illustration of completed installation.
3. Do not use Project record documents as maintenance drawings.

D. Written text: As required to supplement Product Data for the particular installation.

1. Organize in a consistent format under separate headings for different procedures.
2. Provide a logical sequence of instructions for each procedure.

E. Copy of each warranty, bond, and service contract issued

1. Provide information sheet for the University's personnel, giving
   a. Proper procedures in the event of failure.
   b. Circumstances that might affect the validity of warranties or bonds.

1.4 MANUAL FOR EQUIPMENT AND SYSTEMS

A. Submit 2 copies of the complete manual in its final form.

B. Content, for each unit of mechanical equipment and each mechanical system, shall be as follows:

1. Description of unit or system, and component parts
   a. Function, normal operating characteristics, and limiting conditions.
   b. Performance curves, engineering data, and tests.
   c. Complete nomenclature and commercial numbers of replaceable parts.
2. Operating procedures
   a. Start-up, break-in, and normal operating instructions.
   b. Regulation, control, stopping, shutdown, and emergency instructions.
   c. Summer and winter operating instructions.
   d. Special operating instructions.
3. Systems Demonstration
   a. Prior to final inspection, demonstrate operation of each system to University's Representative and University personnel. All work, required for each system to be fully functional, shall be complete and the system shall be fully operational prior to the demonstration.
   b. Instruct designated personnel in operation, adjustment, and maintenance of equipment and systems, using operation and maintenance data as basis of instruction.
4. Maintenance procedures
   a. Routine operations.
   b. Guide to "trouble-shooting".
   c. Disassembly, repair, and reassembly.
   d. Aligning, adjusting, and checking
5. Preventative Maintenance (PM) Schedule
   a. A tabular listing of all systems and equipment within the facility which require preventative maintenance, to include:
      (1) System or equipment name.
      (2) System or equipment number.
      (3) PM activity to be performed on that system or piece of equipment.
      (4) Consumable materials required for performance of the PM activity, such as lubricants, including the specification and quantity needed.
      (5) Frequency of performance of PM activity.
      (6) Date of performance of first round of each PM activity relative to facility commissioning and acceptance by the University.
   b. The requirements of this section cannot be met merely by the supply of Operating & Maintenance manuals from equipment vendors. The extraction of recommended preventative maintenance activities from vendor manuals for all equipment and incorporation onto a summary table as described above is required.
6. Servicing and lubricating schedule, with list of lubricants required.
7. Manufacturer's printed operating and maintenance instructions.
8. Description of sequence of operation by control manufacturer.
9. Original manufacturer's parts list, illustrations, current prices, recommended quantities to be maintained in storage, assembly drawings, and diagrams required for maintenance.
   a. Predicted life of parts subject to wear.

b. Items recommended to be stocked as spare parts.
10. As-installed control diagrams by controls manufacturer.
11. General Contractor and Subcontractors' coordination drawings and as-built color-coded piping diagrams.
12. Charts of valve tag numbers, with the location and function of each valve.
13. Other data as required in the various Specification Sections.

C. Content, for each electrical and electronic system, as appropriate

1. Description of system and component parts.
   a. Function, normal operating characteristics, and limiting conditions.
   b. Performance curves, engineering data, and tests.
   c. Complete nomenclature and commercial numbers of replaceable parts.
2. Circuit directories of panel boards.
   a. Electrical service.
   b. Controls.
   c. Communications.
3. As-built color-coded wiring diagrams.
4. Operating procedures
   a. Routine and normal operating instructions.
   b. Sequences required.
   c. Special operating instructions.
5. Maintenance procedures
   a. Routine operations.
   b. Guide to "trouble-shooting".
   c. Disassembly, repair, and reassembly.
   d. Adjustment and checking.
6. Manufacturer's printed operating and maintenance instructions.
7. Original manufacturer's parts list, illustrations, current prices, recommended quantities to be maintained in storage, assembly drawings, and diagrams required for maintenance.
   a. Predicted life of parts subject to wear.
   b. Items recommended to be stocked as spare parts.
8. Other data as required in the individual Specification Sections.

D. Prepare and include additional data as may be required for instruction of the University's personnel.

E. Additional requirements for operating and maintenance data as specified in the individual Specification Sections.

F. Provide complete information for products specified in the individual Specification Sections.

1.5 SUBMITTAL REQUIREMENTS

A. Submit 2 copies of the preliminary draft of proposed formats and outlines of content prior to preparation of data, 75 days prior to final inspection. University's Representative will review the draft and return 1 copy with comments.

B. Submit 1 copy of the completed data in final form 45 days prior to final inspection. A copy will be returned with comments after final inspection. No final inspection will be made until the required data has been submitted and found to be satisfactory.

C. Submit specified number of copies of approved data in final form 10 calendar days after final inspection but not later than 10 days prior to Owner Training.

1.6 INSTRUCTIONS OF UNIVERSITY'S PERSONNEL

A. Work requiring instruction of the University's personnel is specified in the individual Specification Sections.

B. Schedule the instructional meeting or meetings 2 weeks after instructional manuals have been submitted, reviewed, and accepted by the University's Representative.

C. Upon the University's taking Beneficial Occupancy or after Final Completion (whichever is earlier), fully qualified representatives of the manufacturers shall fully instruct the University's Representative and University personnel in the operation, adjustment, and maintenance of all equipment and systems.

D. Basis of Instruction: Operating and maintenance manual. Review contents of manual with University personnel in full detail to explain all aspects of operations and maintenance.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 92 00