Project Name:UNIVERSITY OF CALIFORNIA, MERCED
SITE DEVELOPMENT AND INFRASTRUCTURE PHASE 4Project No.:906050

ADDENDUM NO. 2

To the

CONTRACT DOCUMENTS

August 16, 2012

I. Bidder acknowledges that it is the Bidder's responsibility to ascertain whether any Addenda have been issued and if so, to obtain copies of such Addenda. Bidder therefore agrees to be bound by all Addenda that have been issued for this bid.

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents. The following changes, additions, or deletions have been made to the following documents as indicated and all other Contract Documents shall remain the same.

II. <u>BIDDING/CONTRACT DOCUMENTS AND DIVISION 1 SPECIFICATIONS – VOLUME 1</u>

A. Updated Exhibit 12 Summary of Builders Risk

III. <u>CLARIFICATIONS</u>

- A. PRE-BID QUESTIONS Questions received from bidders and responses are as follows:
 - 1. Q: The Builders Risk Policy that is indicated in exhibit 12 expired in 2008. Please clarify the policy and provide a current coverage summary.
 - A: An updated Exhibit 12 Summary of Builders Risk is included in this Addenda.
 - 2. Q: At the pre-bid job walk it was indicated that excess soil can be placed in the area adjacent to the new corporation yard. Please confirm that excess soil can be left on site at this location.
 - A: Excess soils are to be placed on campus within one mile as directed. Soil to have max 92% compaction and optimum moisture.
 - 3. Q: Refer to Drawing E-061. If the Phase 4 contractor is to provide MV cable, please provide the size and quantity. Also, provide a drawing showing the location of the existing vacuum interrupter switch.
 - A: Phase 4 project contractor is not providing the cable. Cable to be provided by others

- 4. Q: Refer to Drawing E-061. Please provide a drawing showing the routing of the four new 5" conduits and the location of the existing stubouts.
 - A: Drawing E-161 shows the extent and the termination points of the four new 5" conduits.

IV. <u>CHANGES TO BIDDING DOCUMENTS</u>

- A. BIDDING / CONTRACT DOCUMENTS AND DIVISION 1 SPECIFICATIONS VOLUME 1 OF 2 NO CHANGE
- B. DIVISION 2 33 VOLUME 2 OF 2
 - 1. Table of Contents Changes identified as (Addendum. 2)
 - 2. Specification Section 07 2100 Thermal Insulation: ADD entire section new specification section attached to this Addendum.
 - 3. Specification Section 08 11 13 Hollow Metal Doors & Frames: **ADD** entire section new specification section attached to this Addendum.

VI. <u>DRAWINGS</u>

A. DRAWING SHEET REVISIONS –

Replace the following sheets with the drawings attached to this Addenda.

- 1. C-104, CORP YARD UTILITIES PLAN
- 2. C-105, CORP YARD ELECTRICAL PLAN
- 3. C-107, RANCHERS ROAD TOPOGRAPHY AND DEMOLITION PLAN
- 4. C-109, RANCHERS ROAD GRADING PLAN
- 5. C-201, RANCHERS ROAD UTILITIES PLAN AND PROFILE STA.: 32+03.36 37+00.00
- 6. C-202, RANCHERS ROAD UTILITIES PLAN AND PROFILE STA.:37+00.00 $42{+}00.00$
- 7. C-204, SHAVER LAKE RD UTILITIES PLAN AND PROFILE STA.: 10+00.00 14+26.01
- 8. C-401, CORP YARD EROSION AND SEDIMENT CONTROL PLAN
- 9. C-405, EROSION AND SEDIMENT CONTROL DETAILS
- 10. C-503, CONSTRUCTION DETAILS
- 11. L-802, ADD ALT 4
- 12. A-141, TELECOMMUNICATION BUILDING UPGRADES UPS ENCLOSURE ARCH PLANS

SITE DEVELOPMENT AND INFRASTRUCTURE PHASE 4 UNIVERSITY OF CALIFORNIA, MERCED

- 13. A-541, TELECOM BUILDING UPGRADES UPS ENCLOSURE DETAILS
- 14. E-132, COOLING TOWER WATER TREATMENT SYSTEM ELECTRICAL PLAN 2
- 15. E-161, COOLING WATER AND HEATING WATER, ELECTRICAL UNDERGROUND EXTENSION ELECTRICAL PLAN
- 16. M-131, CENTRAL PLANT LOWER LEVEL AREA A MECHANICAL PLAN
- 17. M-132, CENTRAL PLANT UPPER LEVEL AREA B MECHANICAL PLAN
- 18. M-141, TELECOMMUNICATION BUILDING UPGRADES MECHANICAL PLAN
- 19. M-151, PUMP HOUSE MECHANICAL PLAN
- 20. M-152, PUMP HOUSE MECHANICAL ELEVATIONS
- 21. M-161, COOLING AND HEATING WATER, ELECTRICAL UNDERGROUND EXTENSION MECHANICAL SITE PLAN

UNIVERSITY OF CALIFORNIA, MERCED

By: University of California, Merced University's Representative

Wenbo Yuan

Sr. Project Director

Enclosure:

Specifications Drawings

End of Addendum No. 4

CONSTRUCTION DOCUMENTS TABLE OF CONTENTS

Volume 1

Cover Page Certification Construction Documents Table of Contents Advertisement for Bids Project Directory Instructions to Bidders Supplementary Instructions to Bidders Information Available to Bidders Geotechnical Report Bid Form Bid Bond Agreement **General Conditions** Supplementary Conditions Exhibits –*Addendum 2* **Division 1 Specifications Division 2 Technical Specifications** Drawings (Under Separate Cover)

Division 1 Specifications

- Section 01 11 00 Summary of Work
 - 01 21 00 Allowances
 - 01 22 00 Unit Prices
 - 01 23 00 Alternates
 - 01 25 00 Product Options and Substitutions
 - 01 26 13 Requests For Information
 - 01 31 00 Project Coordination
 - 01 31 19 Project Meetings
 - 01 31 42 Contractor Schedules
 - 01 31 45 Contract Schedules
 - 01 33 23 Shop Drawings, Product Data and Samples
 - 01 35 00 Special Requirements
 - 01 35 40 Environmental Mitigation
 - 01 35 43 Hazardous Materials Procedures
 - 01 41 00 Regulatory Requirements
 - 01 42 13 Abbreviation, Symbols, & Definitions
 - 01 43 39 Mockups
 - 01 43 40 Exterior Enclosure Performance Requirements (NOT USED)
 - 01 45 00 Quality Control
 - 01 51 00 Temporary Utilities
 - 01 56 00 Temporary Barriers and Enclosures
 - 01 56 39 Tree and Plant Protection
 - 01 57 23 Storm Water Pollution Prevention

- 01 60 00 Product Requirements
- 01 71 23 Field Engineering
- 01 73 23 Supporting from Building Structure
- 01 73 29 Cutting, Patching, and Matching
- 01 73 35 Selective Demolition
- 01 74 19 Site Waste Management Program
- 01 77 00 Closeout Procedures, Final Cleaning, and Extra Materials
- 01 78 36 Guarantees, Warranties, Bonds, Service & Maintenance Contracts
- 01 78 39 Project As-Built Documents
- 01 79 00 Training
- 01 81 13 LEED[™] Requirements
- 01 81 13.1 LEED Requirements Score Card (NOT USED)
- 01 91 00 Commissioning
- 01 92 00 Operating and Maintenance

List of Drawings

Revised per Addendum 2

VOLUME 1

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Division 2 EXISTING CONDITIONS

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	03 31 00	Concrete Formwork
	03 32 00	Concrete Reinforcement
	03 32 50	Concrete Accessories
	03 33 00	Cast-In-Place Concrete

03 36 00 Concrete Finishes

DIVISION 05 METALS

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	05 50 00	Metal Fabrications

DIVISION 07 THERMAL AND MOISTURE PROTECTION

Section	07 21 00	Thermal Insulation - Addendum 2
	07 54 23	Thermoplastic Polyolefin (Tpo) Roofing
	07 92 00	Joint Sealants

DIVISION 08 OPENING

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DIVISION 12 FURNISHINGS

Section 12 93 00 Site Furnishings

DIVISION 15 MECHANICAL

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DIVISION 16 COMMUNICATIONS

Section16 70 00Common Work Results For Communications16 73 00Underground Ducts & Raceways For Communications Systems

DIVISION 21 FIRE SUPPRESSION

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DIVISION 23 HEATING VENTILATING AND AIR CONDITIONING (HVAC)

Section	23 05 23	General-Duty Valves For Hvac Piping
	23 21 12	Pipe And Pipe Fittings
	23 21 13	Exposed Hydronic Piping, Valves And Accessories (Utilities)
	23 21 14	Underground Chilled Water Piping (Utilities)
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	23 21 23	Hydronic Pumps
	23 30 01	Reverse Osmosis Treatment System

DIVISION 26 ELECTRICAL

Section	26 05 00	Common Work Results For Electrical
	26 05 13	Medium Voltage Cables (Utilities)
	26 05 19	Low-Voltage Electrical Power Conductors And Cables
	26 05 26	Grounding And Bonding For Electrical Systems
	26 05 29	Hangers And Supports For Electrical Systems (Utilities)
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	26 05 53	Identification For Electrical Systems (Utilities)
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	26 22 00	Dry Type Transformers
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Section 08 11 13 Hollow Metal Doors & Frames – Addendum 2 08 71 00 Door Hardware

- 26 29 23 Variable-Frequency Motor Controllers
- 26 333 53 Static Uninterruptible Power Supply

DIVISION 31 EARTHWORK

- Section31 10 00Site Preparation31 20 00Earth Moving
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DIVISION 32 EXTERIOR IMPROVEMENTS

- Section32 01 90Landscape Maintenance32 05 40Joint Sealants For Civil Work32 05 90Protective Coatings For Civil Improvements
 - 32 11 23 Aggregate Base Course
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 - 32 13 30 Concrete Finishes For Civil Work
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 - 32 16 00 Curbs And Gutters
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	33 40 00	Storm Drainage Utilities
	33 60 00	Hydronic Energy Distribution

- 33 70 05 General Electrical Utilities Requirements
- 33 71 19 Underground Electrical Work

End of Volume 1

SECTION 07 2100

THERMAL INSULATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Glass-fiber blanket insulation.

1.03 SUBMITTALS

- A. Product Data: For each type of product approved by University. Include installation details, material descriptions, and any dimensions of components.
- B. LEED Documentation: Submit data and other information demonstrating compliance with LEED requirements.
 - 1. For adhesives and sealants used and applied on-site, provide documentation including printed statement of VOC content. Fill out the LEED submittal template forms and calculator spreadsheets as provided by the U.S. Green Building Council.
 - 2. Source Location: Provide letter stating the location of the manufacture of the primary materials. Also include the location of the harvest, extraction and recovery of the recycled content.
 - 3. For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating cost for each product having recycled content.

1.04 QUALITY ASSURANCE

A. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products and components to Project site in original, unopened packages. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with University requirements available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. CertainTeed Corporation.
 - 2. Johns Manville.
 - 3. Or Equal

2.02 MATERIALS

- A. Encapsulated Glass-Fiber Blanket Insulation: ASTM C 665, Type I; with maximum flamespread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.
- B. Thickness: 4-inches (102mm) minimum. Provide insulation with R-value of not less than R-13.
- C. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
- D. Sustainability Requirements: Provide glass-fiber blanket insulation as follows:
 - 1. Free of Formaldehyde: Insulation manufactured with 100 percent acrylic binders and no formaldehyde.
 - 2. Low Emitting: Insulation tested according to ASTM D 5116 and shown to emit less than 0.05-ppm formaldehyde.
 - 3. Contractors option, provide either free of formaldehyde or low emitting glass-fiber blanket insulation.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Comply with insulation manufacturer's written instructions applicable to products and applications indicated. Clean substrates of substances that are harmful to insulation or that interfere with insulation attachment
- B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.
- C. Extend insulation to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
- D. Provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units to produce thickness indicated.
- E. Install insulation such that manufacturer's R-value mark is readily observable upon inspection. Install insulation in cavities formed by framing members and secure in-place following manufacturer's written instructions.

3.02 PROTECTION

A. Protect installed insulation and accessories from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation. Repair tears or punctures following manufacturer's written instructions.

END OF SECTION

SECTION 08 1113

HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Standard hollow metal doors and frames.
 - 2. Panel folding doors.
- B. Related Sections:
 - 1. Section 08 7100 Door Hardware

1.03 DEFINITIONS

- A. Minimum Thickness : Minimum thickness of base metal or metal assembly without coatings.
- B. SDI: Meets the requirements of, or conforms to standards set by Steel Door Institute.

1.04 REFERENCE STANDARDS

A. SDI/DOOR A250.8 – Recommended Specification for Standard Steel Doors and Frames.

1.05 SUBMITTALS

- A. Product Data: For each type of product approved by University. Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. LEED Documentation: Submit data and other information demonstrating compliance with LEED requirements.
 - 1. For adhesives and sealants used and applied on-site, provide documentation including printed statement of VOC content. Fill out the LEED submittal template forms and calculator spreadsheets as provided by the U.S. Green Building Council.
 - 2. Source Location: Provide letter stating the location of the manufacture of the primary materials. Also include the location of the harvest, extraction and recovery of the recycled content.
 - 3. For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating cost for each product having recycled content.
- C. Maintenance Data: For each type of door to include in maintenance manuals.
- D. Shop Drawings: Include plans, elevations, sections, details, hardware, attachments to other work, and accessories necessary for complete installation and adjustment for

proper operation. Components and operation shall be approved by University Project Manager.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers who is available during the course of the Work to consult with the University Project Manager about doors supplied.
- B. Accessibility Requirements: Doors shall comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.
- C. Coordination: Information on drawings and in specifications establishes only outline requirements and performance characteristics for systems and components. Specific products, operation, arrangements, alignment, profiles, assemblies as they relate to sightlines, to one another, and to adjoining construction shall be subject to approval by University Project Manager.
- D. Consultants: Retain the services of a Certified Door Consultant (CDC) to assist the University in door product selection. The consultant shall sign and seal the door construction submittal. Doors shall be clearly and permanently marked by the manufacturer where it will be visible after installation.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products and components to Project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
- B. Do not store in a manner that traps excess humidity. Do not use non-vented plastic.
- C. Tag each item or package separately with identification coordinated with the door location, and include installation instructions, templates, accessories, and necessary fasteners with each item or package.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with University requirements available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Ceco Door Products; an Assa Abloy Group company.
 - 2. Crown Industrial Supply
 - 3. Steelcraft; an Ingersoll-Rand company
 - 4. Or Equal

2.02 MATERIALS

A. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum A60 (ZF180) metallic coating.

- B. Anchors: ASTM A 591/A 591M, Commercial Steel (CS), 40Z (12G) coating designation; mill phosphatized.
- C. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.
- D. Powder-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow metal frames of type indicated

2.03 STANDARD HOLLOW METAL DOORS

- A General: Provide doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8.
 - 1. Design: Flush panel as approved by University Project Manager
 - 2. Thermal-Rated (Insulated) Doors: Provide doors fabricated with thermalresistance value (R-value) of not less than 11.1, U-value: 0.09 when tested according to ASTM C 1363.

2.04 HOLLOW METAL PANEL FOLDING DOORS

- A General: Provide doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8.
 - 1. Design: Flush panel as approved by University Project Manager
 - 2. Thermal-Rated (Insulated) Doors: Provide doors fabricated with thermalresistance value (R-value) of not less than 11.1, U-value: 0.09 when tested according to ASTM C 1363.
 - 3. Operation: Top-supported, horizontal-sliding, manually operated folding doors.
 - 4. Gasketing: Manufacturer's standard top, bottom, joint and jamb seals.
 - 5. Carriers: Four-wheel carriers as necessary for size and weight of doors, to ensure secure and easy operation.
 - 6. Tracks: Manufacturer's standard metal track with factory applied, corrosionresistant finish. Limit track deflection, independent of structural system, within limits of Manufacturer requirements for proper operation.
 - 7. Hinges: 4 self-aligning hinges per door panel pivot joint.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.

- B. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- C. Examine roughing-in for embedded and built-in anchors to verify actual locations before frame installation. Proceed with installation only after all unsatisfactory conditions have been corrected.
- D. General: Install metal door work plumb, rigid, properly aligned, and securely fastened in place; comply with Shop Drawings and manufacturer's written instructions.

3.02 ADJUSTING

A. Adjustment: Adjust and check each operating item of each door to ensure proper operation and function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust units as necessary to ensure smooth, quiet operation without warping or binding. Adjust hardware to function smoothly. Confirm that latches engage accurately and securely without forcing or binding. Adjust door control devices to comply with referenced accessibility requirements.

3.03 CLEANING

A. Clean exposed surfaces after installation. Protect hardware from paint, stains, blemishes, and other damage until acceptance of work. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Provide final protection and maintain conditions that ensure that doors are without damage or deterioration at time of Substantial Completion.

END OF SECTION

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA MASTER BUILDERS RISK PROGRAM

COVERAGE SUMMARY

This document summarizes the Builder's Risk policy and is not intended to reflect all the terms and conditions or exclusions of such policy as of the effective date of coverage. This document is not an insurance policy and does not amend, alter or extend the coverage afforded by the listed policy. The insurance afforded by the listed policy is subject to all the terms, exclusions and conditions of such policy.

INSURANCE COMPANY: Lexington Insurance Company

BEST'S RATING: A+ XV

NAMED INSURED: The Regents of the University of California

INSURING AGREEMENT

1. This Policy, subject to the terms, exclusions, limitations and conditions; insures against all risk of direct physical loss or damage to property insured while at the location of the Insured Project (as fully described in the contract documents), while in offsite storage or while in transit, all within the policy territory and occurring during the term of this policy.

LIMITS OF LIABILITY

1. SCHEDULE OF LIMITS

This Company shall be liable for the <u>actual contract value</u>, as specified in the Project Certificate (sample attached) of all individual Insured Projects insured hereunder, but not exceeding the limits and sublimits set forth below:

A. Limit of Liability:

- \$100,000,000 physical damage or loss to covered property at the site of each individual Insured Project.
- \$25,000,000 Joisted Masonry. Projects exceeding \$25,000,000 require advance approval.
- \$10,000,000 Wood Frame. Projects exceeding \$10,000,000 require advance approval.

NOTE: This limit of liability will correspond with the estimated total construction cost as indicated on the original application. The limit of liability will not be increased until the University's Representative has notified Aon Risk Services of any increase in the total construction cost.

- B. Sublimits of Liability:
 - 1. \$ 250,000 Decontamination and Clean-up Expense
 - 2. \$1,000,000 Demolition and Increased Cost of Construction
 - 3. \$1,000,000 Expediting Expense any one location
 - 4. \$2,500,000 Off-site Storage at any one location
 - 5. \$2,500,000 Property in Transit on any one conveyance
 - \$ 250,000 Valuable Papers and Records including Plans, Blueprints, Drawings, Renderings, Specifications or Other Contract Documents, Models, EDP Media, EDP Systems,
 - 7. \$10,000,000 Interior Water Damage in any one occurrence

TERMS AND CONDITIONS

NAMED INSURED 1.

The Regents of the University of California and all affiliated and subsidiary companies, corporations, ventures, partnerships or other organizations, all owned, controlled or managed by the Named Insured and all as now exist or may hereafter be constituted or acquired. In respect to Joint Ventures, the Named Insured's percentage interest is included. If the Named Insured is responsible for such insurance as provided herein, and to the extent the full contract value is declared, then this policy will include the interests of Joint Venture partners for their respective percentage share(s)...

ADDITIONAL INSUREDS 2.

To the extent required by any contract or subcontract for the Insured Project, and then only as their respective interests may appear, any individual(s) or entity(ies) specified in such contract or subcontract, are recognized as Additional Insureds hereunder. As respects architects, engineers, manufacturers and suppliers, the foregoing is limited to their site activities only.

3. ATTACHMENT/TERMINATION

2015

Applicable to the Master Policy in effect from 12:01 AM, September 1, 2005 until 12:01 AM, September 1, 2008, Insured Project coverage will apply at the Project start date noted in the Project Certificate issued and continuing in full force and effect as specified by the estimated Completion Date in the Project Certificate and/or the contract.

NOTIFICATION OF COVERAGE/TERMINATION: If construction is not completed on time and coverage beyond the original expiration date is required, prior notification must be given by the University Representative to Aon Risk Services.

4. DEDUCTIBLE

\$25,000 each OCCURRENCE for ALL OTHER PERILS (AOP) \$100,000 each OCCURRENCE for INTERIOR WATER DAMAGE

NOTE: The contractor shall be responsible for the deductible amount.

EXCLUSIONS

PROPERTY EXCLUDED

This Policy does not insure:

- 1. Land and land values and the value of cut, fill and backfill materials existing at the project site prior to project commencement. To the extent included estimated total contract value declared for premium purposes, the value of fill and backfill materials purchased for use in the completion of the project is not excluded. Notwithstanding the foregoing, labor and material charges incurred to move, remove, place or otherwise handle cut, fill and backfill materials, whether insured or uninsured in the foregoing, are covered to the extent such charges are included in the estimated total contract value declared for premium purposes.
- 2. Contractor's tools machinery, plant and equipment, including spare parts and accessories, whether owned, loaned, borrowed, hired or leased, and property of a similar nature not destined to become a permanent part of the completed Insured Project unless the value of the same is declared under a Project Certificate and additional premium is paid at rates, terms and conditions to be agreed; construction plant, tools and equipment, unless the value of same is reported to the Company, endorsed hereon and additional premium is paid at a rate to be agreed;
- 3. Vehicles or equipment licensed for highway use, watercraft or aircraft;
- 4. Water, animals of any kind, standing timber, and growing crops.
- 5. Accounts, bills, currency, stamps, deeds, evidence of debt, checks, money, securities, precious metals, precious stones or other property of a similar nature;
- 6. EXISTING PROPERTY at the site of the Insured Project;
- 7. Property located at other than the location of the Insured Project, except that which is intransit or temporary storage.
- 8. Prototype, developmental or used machinery and equipment but only as to damage while undergoing any form of Hot Testing, commissioning or startup unless specifically endorsed to the policy.
- 9. Transmission and distribution lines upon energization at the completion of testing;
- 10. Any property located at a site, which stores, processes, handles or makes use of radioactive materials unless reported to and accepted by the Company. The foregoing shall not apply to locations or property making use of radioactive isotopes contained within equipment used for diagnostic or testing purposes

EXCLUDED CAUSES OF LOSS

1. Consequential loss, damage or expense of any kind or description including but not limited to loss of market or delay, liquidated damages, performance penalties, penalties for

non-completion, delay in completion, or non compliance with contract conditions, whether caused by a peril insured or otherwise

- 2. Faulty or defective workmanship, materials, supplies, or design
- 3. Error, omission or deficiency in design, plans, specifications, engineering or surveying
- 4. War
- 5. Nuclear reaction or radiation or radioactive contamination however caused
- 6. Unexplained disappearance, shortage or other loss discovered upon taking inventory.
- 7. Loss, damage costs, expenses, fines or penalties at the order of any government agency
- 8. Any form of fungus, however caused, including but not limited to yeast, mold, mildew, smut, mushrooms, spores or any substance, product or byproduct produced by, released by or arising as a consequence of the past or current existence of fungus. This includes, but is not limited to the cost to remediate the presence or effects of any of the foregoing shall also be excluded.
- 9. The actual, alleged or threatened release, discharge, escape or dispersal of Contaminants or Pollutants
- 10. Asbestos Hazard
- 11. Loss or damage covered under any written or implied guarantee or warranty by any manufacturer or supplier
- 12. Cessation of work, whether total or partial.
- 13. Normal subsidence, settling, cracking, expansion, contraction or shrinkage of walls, floors, ceilings, buildings, foundations, patios, walkways, driveways or pavements
- 14. Infestation, disease, freeze, drought and hail, weight of ice or snow or any damage caused by insects, vermin, rodents or animals but only as respects to Trees, Plants, Shrubs and Landscaping.
- 15. Erosion of graded or planted finish or rough grades which results from normal precipitation
- 16. Loss, damage, destruction, distortion, erasure, corruption, alteration, diminishment in value, or loss of use or usefulness of electronic data, operating systems, micro processors, or computers.
- 17. Flood as defined herein. However if fire, explosion, or leakage from FIRE PROTECTIVE EQUIPMENT ensues, then this policy insurers only such ensuing loss or damage
- Earthquake as defined herein. However if fire, explosion, or leakage from FIRE PROTECTIVE EQUIPMENT ensues, then this policy insurers only such ensuing loss or damage

EXTENSIONS OF COVERAGE

1. TRANSIT:

Subject to the sublimit, coverage applies with respect to property insured from the commencement of loading at the original point of shipment anywhere within the policy territory until completion of unloading at the location of Insured Project, including shipments on inland or coastal waters but excluding ocean marine shipments. To the extent others are responsible for loss or damage to property insured while in transit under terms F.O.B. to a designated location or recipient, this extension of coverage will apply excess thereof and shall not contribute thereto.

The Insured agrees to keep records of all shipments insured hereunder and make them available to the Company upon request.

This coverage shall be void if the Insured enters into any special agreement with carriers releasing them from their common law or statutory liability or agreeing that this insurance shall in any way inure to the benefit of such carriers, however, the Insured may, without prejudice to this coverage, accept such bills of lading, receipts, or contracts of transportation as are ordinarily issued by carriers containing a limitation as to the value of property insured.

2. OFFSITE STORAGE:

Subject to the sublimit, coverage applies with respect to property insured anywhere within the policy territory but excluding such property while in the course of manufacturing or processing at a manufacturer's or supplier's site or while in transit. To the extent others are responsible for loss or damage to covered property while in offsite storage, this extension of coverage will apply excess thereof and shall not contribute thereto.

3. EXPEDITING EXPENSE:

Subject to the sublimit, this Policy shall pay for reasonable wages for overtime, night work, and work on public holidays and extra costs of express freight or other rapid means of transportation which are necessary to make temporary repairs and to expedite the permanent repair or replacement of the property insured when damaged by an peril insured, but only to the extent such is necessary to continue as nearly as practicable the normal operation of the work in progress.

4. ORDINANCE OR LAW / DEMOLITION AND INCREASED COST OF CONSTRUCTION:

Subject to the sublimit, in the event of insured loss or damage under this policy that causes the enforcement of any law or ordinance in effect at the time of loss that regulates the repair, rebuilding or re-construction of the damaged portions of the Insured Project, then to the extent required by such enforcement of any law or ordinance, the Company shall be liable for:

A. Cost of demolishing undamaged parts of the Insured Project including cost of clearing the site.

- B. The value of such undamaged part of the facility which must be demolished;
- C. Increased cost of repair, rebuilding or re-construction of the damaged portions of the Insured Project on the same premises for the same use but not exceeding like height, floor area, style, material and limited to the minimum requirements of the law or ordinance.

With respect to coverage provided by Paragraph B., it is further understood and agreed that the Company shall not be liable for any loss, unless and until the damaged or destroyed building(s) or structure(s) is actually rebuilt or replaced on the same premises with due diligence and dispatch and in no event, unless repair or replacement is completed within two (2) years after the destruction or damage or within such further time as the Company may allow, in writing, during the two (2) years.

The following costs are not payable hereunder:

- A. Cost of demolition or increased cost of repair or reconstruction, debris removal, or other consequential loss caused by the enforcement of any law or ordinance regulating asbestos material or CONTAMINANTS OR POLLUTANTS*;
- B. Cost of any governmental direction or request declaring that asbestos material present in, part of or utilized on any undamaged portion of insured property can no longer be used for the purpose for which it was intended or installed and must be removed or modified.
- C. Cost of compliance with the enforcement of any law or ordinance which an Insured would have otherwise incurred by nature of such law or ordinance in the absence of any loss or damage covered by this policy.

5. CLEAN UP OF CONTAMINANTS OR POLLUTANTS*:

Subject to the sublimit, the Company will pay for the necessary and reasonable expenses actually incurred by the Insured to cleanup and remove CONTAMINANTS OR POLLUTANTS* from land or water confined to the INSURED PROJECT if the discharge, dispersal, seepage, migration, release or escape of the CONTAMINANTS OR POLLUTANTS* is directly caused by insured physical loss of or damage to property insured which occurs during the term of this policy.

It is a condition precedent to recovery under this extension of coverage, that the Company shall have paid or agreed to pay for direct physical loss or damage to Insured Property hereunder and that the Insured shall give written notice to the Company of intent to claim for cost of debris removal or cost to clean up not later than twelve (12) months after the date of such loss or damage.

6. FIRE BRIGADE CHARGES AND EXTINGUISHING EXPENSES:

Subject to the sublimit, when property insured is destroyed or damaged by a peril insured, this Policy shall cover:

A. Fire brigade charges and other extinguishing expenses for which the Insured may be assessed;

B. Loss of fire extinguishing materials expended in fighting fire;

7. PLANS, BLUEPRINTS, DRAWINGS, ETC:

Subject to the sublimit, this Policy is extended to cover direct physical loss of or damage to plans, blueprints, drawings, renderings, specifications or other contract documents and models while at the Insured Project.

8. TREES, PLANTS, SHRUBS AND LANDSCAPING:

This Policy is extended to cover direct physical loss of or damage to trees, plants, shrubs and landscaping materials which are located at the Insured Project, the value of which have been included in the estimated Total Company Value reported to the Company, however, liability for such shall not exceed \$<u>1,000</u> any one item;

9. DEBRIS REMOVAL:

Subject to the sublimit, in the event of direct physical loss or damage insured against and occurring during the term of this Policy, the Company will pay the following necessary and reasonable costs:

- A. costs to remove debris being a part of the property insured from the location of the Insured Project; and / or
- B. cost of cleanup at the Insured Project made necessary as a result of such direct physical loss or damage.

The Company will not pay the expense or cost to extract CONTAMINANTS OR POLLUTANTS* from debris, or to remove, restore, or replace contaminated or polluted land or water. Nor will the Company pay to remove or transport property or debris to a site for storage or decontamination required because the property or debris is affected by CONTAMINANTS OR POLLUTANTS*, whether or not such removal, transport or decontamination is required by law, ordinance or regulation.

It is a condition precedent to recovery under this extension that the Company shall have paid, or agreed to pay, for direct physical loss or damage to the property insured, unless such payment is precluded solely by the operation of any deductible, and that the Insured shall give written notice to the Company of intent to claim for cost of debris removal or cost to cleanup not later than (12) twelve months after the date of such physical loss or damage.

SELECTED GENERAL CONDITIONS

- 1. IN CASE OF LOSS
 - A. Notice of OCCURRENCE:

The Insured will, as soon as practicable, after notifying the University Representative and the University's Chief Risk Officer, report in writing to the Company every OCCURRENCE that may give rise to a claim under this Policy.

B. Proof of Loss:

The Insured will as soon as practicable, file with the Company a signed and sworn detailed proof of loss.

C. Payment of Loss:

All adjusted claims will be due and payable no later than thirty days after presentation and acceptance of proof of loss by this Company or its appointed representative.

D. Partial Payment of Loss:

In the event of a loss insured by this policy, it is understood and agreed that the Company will make partial payments of claims subject to the policy provisions and the normal policy adjustment provisions.

2. RECOVERY OR SALVAGE

Any recovery or salvage will apply as if recovered or received prior to the loss settlement and the loss will be readjustment accordingly, except for:

- A. proceeds from subrogation and other insurance recovered or received after a loss settlement under this policy;
- B. any recovery from suretyship, insurance, reinsurance, security or indemnity taken by or for the benefit of the Company.
- 3. VALUATION

At the time and place of loss, the basis of adjustment of a claim, unless otherwise endorsed herein, shall be as follows:

A. Property Under Construction – The cost to repair or replace the property lost or damaged at the time and place of loss with material of like kind and quality less betterment, including contractor's reasonable profit and overhead not exceeding the percentages in the original contract; if not so replaced then loss shall be settled on the basis of ACTUAL CASH VALUE with proper deduction for depreciation.

- B. Property of Others (Including Items Supplied by the Owner) The cost to repair or replace the property lost or damaged with material of like kind and quality including contractor's charges incurred prior to loss and related to such property, if any, less betterment, or the property owner's cost, whichever is less.
- C. Temporary Works The actual cash value of the lost or damaged property valued as of the time and place of loss.
- D. Valuable Papers and Records The cost to reproduce the property with other property of like kind and quality including the cost of gathering or assembling information from back up data if replaced, or if not replaced, at the value of blank material;
- Installed Trees and Shrubs The cost to replace with property of like kind, quality and size plus the proper proportion of labor expended if such damage occurs after installation.
- 4. PROTECTION OF PROPERTY

The Named Insured will take reasonable steps to protect, recover or save the property insured and minimize any further or potential loss or damage when:

- A. The property insured has sustained direct physical loss or damage by an insured peril; or
- B. The property insured is in imminent danger of sustaining direct physical loss or damage by the perils of:
 - 1. <u>WINDSTORM</u> or other related perils, but only when the potential for the same to occur has been forecasted by the National Weather Service;
 - 2. Fire;

SELECTED DEFINITIONS

The following terms have been defined in the Master Policy and will be applied in the interpretation of certain wording used herein or within the Master Policy.

1. <u>FLOOD</u>:

A condition of inundation of normally dry areas, including dewatered areas, that results from;

- A. The rising or overflow of inland or tidal waters;
- B. The unusual and rapid accumulation or runoff of surface waters.
- C. Mudslides (mudflows) which are caused by flooding as defined in subparagraph B above and are akin to a river of liquid and flowing mud on the surfaces of normally dry land areas, as when earth is carried by a current of water and deposited along the path of the current;

The collapse or subsidence of land along the shore of a lake or other body of water as a result of erosion or undermining caused by waves or currents of water exceeding the cyclical levels which result in flooding as defined in A above.

2. <u>CONTAMINANTS OR POLLUTANTS</u>:

Any material which after its release can cause or threaten damage to human health or human welfare or which can cause or threaten damage, deterioration, loss of value, marketability or loss of use to property insured hereunder as listed in the Federal Water Pollution Control Act, Clean Air Act, Resource Conservation and Recovery Act of 1976, and Toxic Substances Control Act, or as designated by the US Environmental Protection Agency.

3. EARTHQUAKE:

All land movement due to seismic activity, including but not limited to shocks, tremors, volcanic action, earth rising or shifting, landslide, subsidence, sinkhole, rockfall and tsunami.

4. FIRE PROTECTION SYSTEMS:

Tanks, water mains, hydrants, or valves, and any other equipment whether used solely for fire protection or jointly for fire protection and for other purposes but excluding:

- A. branch piping from a joint system where such branches are used entirely for purposes other than fire protection.
- B. any underground water mains or appurtenances located outside of the described premises and forming part of the public water distributing system.
- C. Any pond or reservoir in which the water is impounded by a dam

5. OCCURRENCE:

Any one loss, disaster, casualty, accident, incident, or a series of one or more of the foregoing arise out of a single event or originating cause during the Policy term and including all resultant or concomitant losses wherever located with the following exceptions:

With the exception of strikes, riots, civil commotion and vandalism or EARTHQUAKE*, FLOOD* and WINDSTORM*, OCCURRENCE* means any one loss, disaster, casualty, accident, incident, or a series of one or more of the foregoing arising out of a single event or originating cause during the Policy term and including all resultant or concomitant losses wherever located.

6. <u>WINDSTORM</u>:

A named atmospheric disturbance accompanied by wind, rain, hail, tornado or any combination of the foregoing and including any resulting flood, tidal or wave action.

7. PROJECT CERTIFICATE

A certificate of insurance (sample attached) evidencing coverage under the Policy of individual Insured Project(s).

						SAMPL	E ONI	LY
	Lexington Insurance Company							
			CERTIFIC	ATE OF INS	JRANCE			
CERTIFICATE	PERIOD		to	CER	TIFICATE NUMB	ER IM	0001	- 00
This Certificate fo	llows terms a	nd condition	s of LEXINGTON		MPANY Policy	ім 7	7477530	- 00
This certificate ne unless expressly :	either affirmati stated herein.	ively nor neg	atively amends, e	xtends or alters th	ne coverage, limits	, terms or conditions	s of the Mas	ter policy
NAMED	The Reger	nts of The L	Iniversity of Cal	ifornia and/or	PREMIUM \$		ANNUAL	RATE
(include address)	their const	truction ma	anagers, contra	ctors,	_	Builders Risk		/\$100
	1111 Franl	klin Street.	10 th Floor	iy appeal	٦ ا	Delay In Completion		/\$100
	Oakland, C	CA 94607-5	200			Farthquake	-	/\$100
						Flood		/\$100
						Windstorm / Month		/\$100
ADDITIONAL	The Reger	nts of The L	Jniversity of Ca	ifornia, its	Damage 1	To Existing Property		/\$100
(include address)	approved	General Co	ontractor,Constr	uction	Ordinance &	Law / Demo & ICC		/\$100
ç	contract w	ith The Re	contractor of an	iversity of				/\$100
	California	provides fo	or Builder's Risk	coverage	Offsite Storage / \$100			/\$100
	Provide for Danuel o Mon Corelage				Fire Dept. Service Charges / \$100			/\$100
					Plans, I	Blueprints & Models		/\$100
						Terrorism		/\$100
LOSS PAYEE (include address)	N/A = Not	Applicable						
	Not Applic	able						
(include address)								
PROJECT LOCATION (include address)	UC Campus Address: Project Name & Number Prime Contractor							
PROJECT DESCRIPTION (Structural type, size, material, occupancy, etc.)	T PTION al type, anal, y, etc.) time or							
rehab, be specific)								
(Place X in all applicable	All Risk	Hot Testing	Contractor's Wrap Around	Delay In Completion	Damage To Existing Proper	Ordinance & L ty / Demo & IC	aw Ter	rorism
coverage blocks)								

Page 1 of 3

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CERTIFICATE NUMBER:	M <u>- 00</u>	SA	MPLE ONLY					
	STANDARD COVERAGE TERMS							
(Coverage shall only apply und	er this Certificate to those individual Limits	, Sub-limits and Aggregate Limits for	which a value is entered below)					
	\$ * Any One OCCUR	RENCE* During The Certificate Per	od					
SUB-LIMITS OF LIABILITY (Sublimits per OCCURRENCE* except Delay In Completion as Certificate Aggregate)	See Above Physical Damage \$Excluded Delay In Completi \$2,500,000 Physical Damage \$2,500,000 Physical Damage \$2,500,000 Physical Damage \$1,000,000 Expediting Expension \$250,000 Fire Brigade Char \$250,000 Physical Damage \$250,000 Fire Brigade Char \$250,000 Other Contract Domage \$1,000,000 Ordinance Or Law \$Excluded Damage To Existi \$250% Of the amount of I	To Insured Property on (see coverage terms below for speci To Property In Transit - Any One C To Property In Offsite Storage - Any se ges & Extinguishing Expenses To Plans, Blueprints, Drawings, Re bouments And Models At The Insure of Demolition & Increased Cost of C ing Property insured physical loss or damage - D	ic sublimits) onveyance y One Location nderings, Specifications Or d Project onstruction ebris Removal					
ANNUAL AGGREGATES	e Excluded Caused By, Res	ulting From, Contributed To Or	Aggravated By The Peril Of					
(Aggregate limits apply to each annual period within this Certificate beginning on the Certificate inception date)	S Excluded Caused By, Result WINDSTORM* S Excluded Caused By, Result	ting From, Contributed To Or Aggrav	ated By The Peril Of COASTAL ated By The Peril Of FLOOD *					
DEDUCTIBLES	\$ 25,000* Physical Damage.	, Except						
(Deductibles apply per	\$ Excluded % EAR	THQUAKE*						
OCCURRENCE*) (When % is entered, the % is applied against the total insured physical damage values at risk at the time and place of loss subject to the dollar minimum)	\$ Excluded % COA \$ Excluded % FLO \$ Excluded % FLO \$ Excluded Hot Testing Excluded Calendar Day Dec Excluded Calendar Day Dec	ASTAL WINDSTORM* OD* ductible Period – Delay In Completic ductible Period – Delay In Completic	n - Standard Coverage n - Optional Coverage					
in the Dela	DELAY IN COMPLETION	COVERAGE TERMS						
(Coverage for Dela	y in Completion shall only apply under this I	Certificate when this section is comp	leted in its entirety)					
NAMED INSURED & BUSINESS ADDRESS	Not Applicable							
ANTICIPATED DATE OF CO	MPLETION* N/A	PERIOD OF INDEMNITY	N/A Calendar Days					
	Subject to individual Certificate Aggr Certificate Aggregate limit fo	egate sublimits shown below, the or which the Company shall be lia	e total ble is N/A					
CERTIFICATE AGGREGATE SUB-LIMITS OF LIABILITY	Loss Of Gross Earnings \$ Loss Of Rental Income \$ Soft Costs / Additional Expense \$	N/A N/A N/A						
When a Certificate Aggregate Expense above, coverage sha Aggregate S	Sub-limit is entered for Soft Costs / Additio Il be further limited to the individual Certific Sub-limits entered to the right	Interim Interest Expense Realty Taxes / Ground Ren Advertising Expense Commission Expense Architect / Engineer Fees Project Administration Expe Legal / Accounting Fees Insurance Premiums	s S					

Page 2 of 3

	M	SAMPLE ONLY					
	HOT TESTING PERIOD TERMS						
(If an X is entered in the coverage block on page one the following must be provided)							
	OTHER COVERAGE TERMS / CONDIT	IONS					
· •	(Identify other terms and conditions below that apply to this	Certificate)					
* An Interior Water Damage Sublimit of \$10,000,000 is applicable to all projects on a per occurrence basis. * A Deductible of \$100,000 is applicable to the Interior Water Damage Sublimit on a per occurrence basis							
Countersigned at:		e:					
	Page 3 of 3						

University of California Merced

Site Phase 4

Project No.: 906050

Sheet No.			Sheet Name	100% CD	Addendum 1	Addendum 2	
General Drawings		gs					
	G	001	1	Cover Sheet	05.10.12		
	G	002		Sheet Index and Project Information	05.10.12		
	G	003		DSA Review Reference	05.10.12		
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Civil Drawings

С	101	General Notes
С	102	Survey Control Plan
С	103	Corp Yard Grading and Drainage Plan
С	104	Corp Yard Utilities Plan
С	105	Corp Yard Electrical Plan
С	106	Ranchers Road / Ansel Adams Key Sheet
С	107	Ranchers Road Topography and Demolition Plan
С	108	Ansel Adams Topography and Demolition Plan
С	109	Ranchers Road Grading Plan
С	110	Ansel Adams Grading Plan
С	111	Ranchers Road Striping and Signing Plan
С	112	Ansel Adams Signage and Striping Plan
С	113	Ranchers Road Ansel Adams Road Electrical Plan
Т		Ranchers Road Utilities Plan and Profile
С	201	-Stations 32+03.36 - 37+00.00
		Ranchers Road Utilities Plan and Profile
С	202	-Stations 37+00.00 - 42+00.00
		Ansel Adams Road Utilities Plan and Profile
С	203	-Stations 10+50.00 - 14+70.00
		Shaver Lake Utilities Plan and Profile
С	204	-Stations 10+00.00 - 14+26.01
С	301	Typical Cross Sections
С	401	Corp Yard Erosion and Sediment Control Plan
С	402	Ranchers Road Erosion and Sediment Control Plan
		Ansel Adams Rd & Shaver Lake Rd
С	403	-Erosion and Sediment Control Plan
С	404	Erosion and Sediment Control Details
С	405	Erosion and Sediment Control Details
С	501	Construction Details
С	502	Construction Details
С	503	Construction Details
С	504	Construction Details
С	505	Construction Details
С	506	Construction Details
С	507	Construction Details
С	801	Add Alternates 1-3: Corp Yard
С	802	Add Alternate 4: Scholars Lane Crossing Improvemer
С	803	Add Alternate 6: Corp Yard Access and Lighting
С	804	Add Alternate 7: Water Line Loop
С	805	Add Alternate 8: Ansel Adams Rd SD Extension

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Landscape Drawings

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101	Layout and Materials Plan
201	Irrigation Plan - Scholars Lane
301	Planting Plan - Scholars Lane
302	Planting Plan - Ranchers Road
303	Planting Plan - Corp Yard
401	Landscape Details
402	Irrigation Details

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Add Alt 4: Scholars Lane Crossing Improvements

05.09.12

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General Drawings

E 001

Electrical General Notes and Legends

04.19.12

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Cooling Tower Water Treatment System

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		Cooling Tower Water Treatment System
Μ	131	-Lower Level Area A Mechanical Plan
		Cooling Tower Water Treatment System
Μ	132	-Upper Level Area B Mechanical Plan
		Cooling Tower Water Treatment System
Μ	133	-Mechanical Plans & Elevations
		Cooling Tower Water Treatment System
Μ	134	-Upper Level Area B Demolition Plan
Μ	141	Telecom BLDG. Upgrades Mechanical Plan
		Cooling & Heating WTR. Underground Extension
Μ	161	Mech. Site Plan
		Cooling & Heating WTR. Underground Extension
Μ	561	Utility Tunnel
		Cooling Tower Water Treatment System
Μ	631	-Process Schematic
		Cooling Tower Water Treatment System
М	632	-HVAC Schedules
		Cooling Tower Water Treatment System
E	131	-Electrical Plan 1
		Cooling Tower Water Treatment System
E	132	-Electrical Plan 2
		Cooling Tower Water Treatment System
E	531	-Electrical Details
		Cooling Tower Water Treatment System
M	832	-Add Alternate 5 RO System - Size

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Telecommunications Building Upgrade

	Telecommunications Building Upgrades
141	-Design for UPS Enclosure Shed
	Telecommunications Building Upgrades
541	-UPS Enclosure Remodel Details
	Telecommunications Building Upgrades
101	-UPS Enclosure Structural
	Telecommunications Building Upgrades
141	-Mechanical Plan
	Telecommunications Building Upgrades
641	-Process Schematic
	Telecommunications Building Upgrades
141	-Electrical Plan

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Pump House

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Μ	151	Potable Water Low Flow System - Mechanical Plan
Μ	152	Potable Water Low Flow System - Mechanical Elevs
		Potable Water Low Flow System - Process
Μ	651	Schematic
		Potable Water Low Flow System - Electrical Single
Е	051	Line Diagram MCC Elevation & Schedule
Е	151	Potable Water Low Flow System - Electrical Plan

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Cooling and Heating Water, Electrical Underground Extension

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$\begin{array}{c} \hline \\ \hline $	 * DOOR SHOP DRAWINGS AND HARDWARE SCHEDULE * NEW FIRE SUPPRESSION SYSTEM - EXTENDED FROM EXISTING TELECOM BUILDING FIRE SUPPRESSION SYSTEM * LIGHTING SYSTEM DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL LIST THE DEFERRED SUBMITTALS ON THE CONSTRUCTION DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO SHALL REVIEW THEM AND FORWARD THEM TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO SHALL REVIEW THEM AND FORWARD THEM TO THE REGISTERED DESIGN PROFESSIONAL IN RESIGN THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
+/-7 1	DEFERRED APPROVAL
()	 OR SIMILAR PRODUCTS SHALL BE APPROVED BY UNVERSITY PROJECT MANAGER. 10. GENERAL: THESE PLANS HAVE BEEN PRODUCED FOR USE BY A KNOWLEDGEABLE AND EXPERIENCED CONTRACTOR. THESE PLANS CONTAIN INFORMATION FOR GENERAL CONSTRUCTION AND BUILDING PERMIT PURPOSES ONLY. FOR ANY ITEMS, METHODS AND/OR MATERIALS NOT SHOWN, THE MINIMUM REQUIREMENTS OF THE CURRENTLY ADOPTED C.B.C. AND DSA SHALL GOVERN. ANY OR PART OF ALL SYSTEMS, MATERIALS, CONNECTIONS AND DETAILS NOT PROVIDED IN THESE PLANS ARE THE SOLE AND CONFIRM WITH UNIVERSITY PROJECT MANAGER. STANTEC PROVIDES NO WARRANTY OR GUARANTEE ON THE FINAL PROJECT MANAGER. STANTEC PROVIDES NO WARRANTY OR CONSTRUCTION DOCUMENTS.
	SERVICE OUTSIDE OF THE AREA OF NEW WORK. PROVIDE REQUIRED MEANS OF MAINTAINING CONTINUITY AND OPERATION OF THESE SYSTEMS. DO NOT DISABLE OR DISTURB ANY SYSTEM PRIOR TO OBTAINING PERMISSION FROM THE UNIVERSITY'S PROJECT MANAGER. 9. ALL MANUFACTURES PRODUCTS NOTED ON PLANS, DETAILS AND SPECIFICATIONS ARE FOR REFERENCE ONLY. COLOR. STYLE. PATTERNS AND PRODUCT QUALITY WITH EQUAL
	 THE CONTRACTOR SHALL INSPECT JOB SITE TO VERIFY FIELD CONDITIONS PRIOR TO THE START OF WORK. ALL EXISTING CONDITIONS MAY NOT BE INDICATED OR REFERENCED ON THE PLANS. MAINTAIN ALL MECHANICAL. PLUMBING. ELECTRICAL. ALARM. TELECOM SYSTEMS. ETC. IN
_	6. ANY DEMOLITION WORK NEEDED IS TO BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REPORT ANY ISSUES OR DISCREPANCIES TO UNIVERSITY'S PROJECT MANAGER PRIOR TO START OF ANY WORK. ALL REMOVED MATERIALS, REFUSE, AND DEBRIS SHALL BE PROPERLY DISPOSED OF. COORDINATE WITH UNIVERSITY'S REPRESENTATIVE BEFORE HAULING FROM SITE.
	5. CONTRACTOR TO INFORM UNIVERSITY'S PROJECT MANAGER OF WHERE AND WHEN CUTTING OR REMOVAL OF DUCTWORK, CONDUIT OR PIPING IS TO TAKE PLACE WHEN IT MAY AFFECT DISTRIBUTION TO OTHER PARTS OF THE BUILDING.
	4. IF AN INSTALLATION OR MOUNTING DETAIL IS NOT SHOWN ON THE DRAWINGS, THE WORK IS TO BE COMPLETED IN A PROFESSIONAL WORKMANLIKE MANNER CONFORMING TO MANUFACTURER'S, SMACNA, APPLICABLE CODE OR INDUSTRY STANDARD RECOMMENDATIONS.
	3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, PERMITS, FEES AND EQUIPMENT SPECIFIED, INDICATED OR IMPLIED IN THESE DOCUMENTS TO ACCOMPLISH THE CONSTRUCTION IN A PROFESSIONAL, WORKMANLIKE MANNER. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION TASKS INDICATED AND LOCAL CODES AND/OR ORDINANCES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE UNIVERSITY'S PROJECT MANAGER FOR RESOLUTION BEFORE PROCEEDING.
A-541	2. ALL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION ALL CALIFORNIA BUILDING CODES, AS AMENDED BY LOCAL ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS TO THE MECHANICAL, ELECTRICAL AND FIRE SPRINKLER DESIGN TO MEET CURRENT CODE REQUIREMENTS AND PROJECT STANDARDS.
	 THESE DRAWINGS ARE DIAGRAMMATIC AND MAY NOT CONTAIN ALL THE REQUIREMENTS OR INFORMATION FOR THE COMPLETED PROJECT. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY, ACCOMMODATE ACTUAL FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES TO PROVIDE A COMPLETE FINISHED PROJECT TO MEET UNIVERSITY REQUIREMENTS.
	GENERAL NOTES

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2012-8-10 12:21 By: damyers



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ADDENDUM 2 ADDENDUM 2 From what's below. Call before you dig. Drawing Title: TELECOM BUILDING UPGRADES UPGRADES UPGRADES UPGRADES UPGRADES UPGRADES ARCH PLANS Sheet Number:	UNIVERSITY OF CALIFORNIA, MERCED FIRE MARSHAL Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: Date: UCM Project NO.: 906050 NO. AC FLS SS	Copyright Reserved The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing – any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. Drawing Stage: DOCUMENTS Seals and Signatures:	Stantec Consulting Services Inc. MecHANICAL ENGINEER / ELECTRICAL ENGINEER / Suite 210 Walnut Creek, CA 94598 (209) 521–9045 fax	University of California Merced, California Project Name: Site Development and Infrastructure Phase 4



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DETALS Sheet Number: A-541	Know what's below. Call before you dig. Drawing Title: TELECOM BUILDING UPGRADES UPGRADES	Scale: AS NOTED Key Plan ADDENDUM 2	ACLSSS DATE: No. Description ADDENDUM #2 Issue Date 08.07.12 Issue Date Issue D	UNIVERSITY OF CALIFORNIA, MERCED FIRE MARSHAL Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: Date: UCM Project No.: 906050 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT FILE NO. 01-UC MERCED APPL. NO.	Copyright Reserved The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing – any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. Drawing Stage: 100% CONSTRUCTION DOCUMENTS Seals and Signatures:	Civil Engineer:Stantec Consulting Services Inc.101612th StreetModesto, CA 95354(209)521-9045 faxwww.stantec.comStantec Consulting Services Inc.MECHANICAL ENGINEER / ELECTRICAL ENGINEER370Wiget Lane, Suite 210Walnut Creek, CA 94598(925)941-1400	University of California Merced, California Project Name: Site Development and Infrastructure Phase 4 Phase 4



KEY NOTES 🛛 🖉

- CONSTRUCT STORM DRAIN INLET STRUCTURE PER DETAIL 16, SHEET C-503. NOT USED NOT USED CONSTRUCT FLARED END OUTLET PER DETAIL 21,
- SHEET C-503.
- PROVIDE TEMPORARY WATER CONNECTION AND BACKFLOW DEVICE PER DETAIL 28, SHEET C-504. REMOVE EXISTING BLOWOFF ASSEMBLY (IF PRESENT) AND DELIVER TO UNIVERSITY REPRESENTATIVE. MAKE FINAL CONNECTION TO DOMESTIC WATER AT EXISTING 12" VALVE ONLY AFTER ACCEPTANCE AND SANITIZATION OF PROPOSED DOMESTIC
- WATER IMPROVEMENTS. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL 30, SHEET C-504.
- INSTALL 12"X12"X12" TEE WITH 12" GATE VALVES AS SHOWN.
- INSTALL FIRE HYDRANT, BURY, AND GATE VALVE PER DETAIL 29, SHEET C-504. INSTALL 12" BLIND FLANGE FOR FUTURE CONNECTION AT LEAST 5 LF BEYOND THE OUTSIDE WALL OF PROPOSED STORM DRAIN PIPE. INSTALL TEMPORARY BLOWOFF ASSEMBLY PER DETAIL 24,
- SHEET C-504. INSTALL HOSE BIBB PER DETAIL 27, SHEET C-504.) INSTALL 3" STUB FOR FUTURE EXTENSION. INSTALL 600 LF OF TRENCH DRAIN PER DETAIL 19, SHEET C-503. NOT USED
- INSTALL 2" WATER METER AND BACKFLOW DEVICE PER DETAIL 44, SHEET C-506. INSTALL CLEAN-OUT PER DETAIL 23A, SHEET C-504.

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EXISTING EDGE OF PAVEMENT
EXISTING FIRE HYDRANT
EXISTING STREET LIGHT
EXISTING LIGHT AS DESIGNATED
EXISTING "WATER" BOX
EXISTING GUY WIRE
EXISTING POWER POLE
EXISTING STREET NAME SIGN
EXISTING STREET SIGN
EXISTING OVERHEAD UTILITIES EXISTING STORM DRAIN EXISTING SEWER EXISTING GAS DIRECTION OF FLOW AND SLOPE FLOW LINE OF CURB ELEVATION INSTALL STORM DRAIN LINE AND
INSTALL STORM DRAIN MANHOLE
INSTALL WATER LINE AND SIZE
INSTALL BLOWOFF
INSTALL WATER VALVE

INSTALL FIRE HYDRANT, BURY, AND GATE VALVE TRENCH DRAIN PER DETAIL 19, SHEET C—503

INSTALL HOSE BIBB PER DETAIL 27, SHEET C-504.

DRAWING SCALE AND ORIENTATION









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ORIGINAL SHEET - ARCH E1

KEY NOTES (#)

- P.O.C. TO DISTRIBUTION BOARD 1DB1. BOARD WITH MAIN DISCONNECT, TRANSFORMER, PANEL CY, TIME SWITCH, EMERGENCY DISCONNECT AND GROUND ROD PER DETAIL 37 SHEET C-506. INSTALL SITE LIGHT PER DETAIL 40, SHEET C-506 20' FROM EDGE TO 18" AFG, PROVIDE EXP-PROOF SEALS ON ALL CONDUITS IN THE EXP PROOF CLASS 1, DIVISION 2 AREA PER DETAIL 38 SHEET C-506.
- (2) 4" CONDUIT ~ ONE SPARE AND ONE WITH 3#4, 1#4 GND. 2" CONDUIT ~ 3#4, 1#4 GND. CHRISTY N40 BOX (PULL BOX) 200' MAXIMUM SPACING
- CHRISTY N40 BOX (PULL BOX) 200' MAXIMUM SPACING PER DETAIL 42 SHEET C-506. ONE 2" CONDUIT ~ 3#4, 1#4 GND AND ONE 1" CONDUIT WITH 2#10, 1#8 GND (LIGHTING).
- 9 1" CONDUIT WITH 2#10, 1#8 GND (LIGHTING) AND 2#10 (RECEPTACLES).
- 0 CHRISTY N9 BOX (PULL BOX) PER DETAIL 43 SHEET C-506
 1 FUTURE LIGHT FIXTURES TO BE INSTALLED BY OTHERS.

LEGEND



EXISTING EDGE OF PAVEMENT EXISTING FIRE HYDRANT EXISTING STREET LIGHT EXISTING LIGHT AS DESIGNATED EXISTING "WATER" BOX EXISTING GUY WIRE EXISTING POWER POLE EXISTING STREET NAME SIGN EXISTING STREET SIGN

EXISTING OVERHEAD UTILITIES INSTALL LIGHT FIXTURE ELECTRICAL CONDUIT WITH CONDUCTORS

CHRISTY N40 BOX (PULL BOX) DUPLEX CONVENIENCE RECEPTACLE DEVICE WITH GROUND FAULT INTERRUPTER "GFCI" POLE MOUNTED, NEAR HANDHOLE. PROVIDE WITH GASKETTED WP COVER.

GROUND ROD

DRAWING SCALE AND ORIENTATION









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DRAWING SCALE AND ORIENTATION

EXISTING EDGE OF PAVEMENT EXISTING FIRE HYDRANT EXISTING STREET LIGHT EXISTING LIGHT AS DESIGNATED EXISTING WATER" BOX EXISTING GUY WIRE EXISTING POWER POLE EXISTING STREET NAME SIGN EXISTING STREET SIGN EXISTING TREE; TRUNK DIAMETER & SPREAD ARE SHOWN TO SCALE
EXISTING EVERGREEN TREE SPREAD SHOWN TO SCALE
EXISTING BARB WIRE FENCE EXISTING CHAIN LINK FENCE EXISTING CORRAL TYPE FENCE EXISTING GUARD RAIL EXISTING OVERHEAD UTILITIES EXISTING STORM DRAIN EXISTING STORM DRAIN EXISTING GAS DIRECTION OF FLOW AND SLOPE FLOW LINE OF CURB ELEVATION INSTALL STORM DRAIN LINE AND SIZE INSTALL STORM DRAIN MANHOLE (PER DETAIL 14 SHEET C-502) INSTALL BLOWOFF (PER DETAIL 24 SHEET C-504)
INSTALL WATER VALVE (PER DETAIL 25 SHEET C-504) INSTALL FIRE HYDRANT, BURY, GATE V (PER DETAIL 29 SHEET C-504) 50 WATT ELECTROLIER PER DETAIL 41 SHEET C-506 100 WATT ELECTROLIER PER DETAIL 4 SHEET C-506 RETAINING WALL 5 STRAND BARBED WIRE FENCE PER DETAIL 31 SHEET C-505
REINFORCED CONCRETE PER DETAIL 6 SHEET C-501 CATCH BASIN PER DETAIL 22 SHEET C-503

- C-501.

- DETAIL 9, SHEET C-501.

SHEET C-507. CONSTRUCT ACCESSIBLE RAMP PER DETAIL 8,

PLACE 2,600 SF 3" AC OVER 9" CLASS II AB

KEY NOTES

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SHEET C-501.

SHEET C-501.

RIGHT OF WAY.

C-501.

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EXISTING ACCESS EASEMENT. EXISTING PROPERTY LINE.

- DEPRESSED CURB FOR FUTURE MID BLOCK RAMP PER 22

- 23

- 24

- SHEET C-501.
- CONSTRUCT CONCRETE SIDEWALK PER DETAIL 7, SHEET CONSTRUCT REINFORCED CONCRETE SIDEWALK PER DETAIL





ORIGINAL SHEET - ARCH E1

EXISTING STREET LIGHT EXISTING LIGHT AS DESIGNATED EXISTING "WATER" BOX EXISTING GUY WIRE EXISTING POWER POLE EXISTING STREET SIGN EXISTING TREE; TRUNK DIAMETER & SPREAD ARE SHOWN TO SCALE EXISTING EVERGREEN TREE SPREAD SHOWN TO SCALE EXISTING BARB WIRE FENCE EXISTING CHAIN LINK FENCE EXISTING CORRAL TYPE FENCE EXISTING GUARD RAIL EXISTING OVERHEAD UTILITIES EXISTING STORM DRAIN EXISTING SEWER EXISTING GAS DIRECTION OF FLOW AND SLOPE FLOW LINE OF CURB ELEVATION INSTALL STORM DRAIN LINE AND SIZE INSTALL STORM DRAIN MANHOLE (PER DETAIL 14 SHEET C-502) INSTALL AREA DRAIN PER DETAIL 16 SHEET C-503 INSTALL WATER LINE AND SIZE INSTALL WATER VALVE (PER DETAIL 25 SHEET C-504) INSTALL FIRE HYDRANT, BURY, GATE VALVE (PER DETAIL 29 SHEET C-504) 50 WATT ELECTROLIER PER DETAIL 41 SHEET C-506 100 WATT ELECTROLIER PER DETAIL 41 SHEET C-506 2" ELECTRICAL CONDUIT WITH CONDUCTOR RETAINING WALL 5 STRAND BARBED WIRE FENCE PER DETAIL 31 SHEET C-505 REINFORCED CONCRETE PER DETAIL 6

STORM DRAINAGE STRUCTURE ID

DRAWING SCALE AND ORIENTATION

40'





THE CONTRACTOR SHALL COORDINATE WITH THE UNIVERSITY REPRESENTATIVE REGARDING THE COORDINATION OF THE IMPROVEMENTS FOR THIS PROJECT AND THOSE OF THE STUDENT SERVICES BUILDING (SSB) PROJECT.



RANCHERS ROAD STA: 37+00.00 TO 42+00.00

WATER WORKS NOTE

ALL WATER SHALL BE PLACED IN CONFORMANCE WITH STATE OF CALIFORNIA DEPARTMENT OF HEALTH CRITERIA FOR THE SEPARATION OF WATER MAINS WITH SANITARY SEWER AND STORM SEWERS.

$\langle \# \rangle$ KEY NOTES

- UC MERCED PROPERTY BOUNDARY. EXISTING FIRE HYDRANT TO REMAIN. EXISTING ACCESS ROAD. CONNECT TO EXISTING 8" WATER, CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO BEGINNING CONSTRUCTION.
- NOT USED. RIGHT OF WAY. TYPE G3 CATCH BASIN PER DETAIL 22, SHEET C-503. TYPE 24-13 GRATE PER PER DETAIL 20, SHEET C-503.
- INSTALL 8" WATER LINE. INSTALL 12" STORM DRAIN LINE. 10
- CONSTRUCT 24" DRAIN INLET PER DETAIL 16 SHEET C-503. 11 (TYPICAL OF 2).
- INSTALL STORM DRAIN CLEAN OUT PER DETAIL 23A SHEET 12 C–504. (TYPICAL OF 4). 13
- INSTALL THRUST BLOCK PER DETAIL 30 SHEET C-504. UTILITIES INSTALLED BY OTHERS. 14

LEGEND

	EXISTING EDGE OF PAVEMENT EXISTING FIRE HYDRANT EXISTING STREET LIGHT EXISTING LIGHT AS DESIGNATED EXISTING "WATER" BOX EXISTING GUY WIRE EXISTING POWER POLE
$\left \right\rangle$	EXISTING STREET SIGN
	EXISTING TREE; TRUNK DIAMETEI SPREAD ARE SHOWN TO SCALE
	EXISTING EVERGREEN TREE SPREAD SHOWN TO SCALE
x - x - x - x - x - x - x - x - x - x -	EXISTING BARB WIRE FENCE EXISTING CHAIN LINK FENCE EXISTING CORRAL TYPE FENCE EXISTING OVERHEAD UTILITIES EXISTING OVERHEAD UTILITIES EXISTING STORM DRAIN EXISTING SEWER EXISTING GAS DIRECTION OF FLOW AND SLOPE FLOW LINE OF CURB ELEVATION INSTALL STORM DRAIN LINE AND INSTALL STORM DRAIN MANHOLE (PER DETAIL 14 SHEET C-502) INSTALL AREA DRAIN PER DETAIL SHEET C-503 INSTALL WATER LINE AND SIZE INSTALL WATER VALVE (PER DETAIL 25 SHEET C-504) INSTALL FIRE HYDRANT, BURY, O (PER DETAIL 29 SHEET C-504) 50 WATT ELECTROLIER PER DET SHEET C-506 100 WATT ELECTROLIER PER DET SHEET C-506 2" ELECTRICAL CONDUIT WITH CO RETAINING WALL 5 STRAND BARBED WIRE FENCE DETAIL 31 SHEET C-505 REINFORCED CONCRETE PER DE SHEET C-501
DRAWING SCALE	AND ORIENTATION









LEGEND

	EXISTING FIRE HYDRANT EXISTING STREET LIGHT EXISTING LIGHT AS DESIGNATED EXISTING "WATER" BOX EXISTING GUY WIRE EXISTING POWER POLE
b	EXISTING STREET SIGN
	EXISTING TREE; TRUNK DIAMETER & SPREAD ARE SHOWN TO SCALE
	EXISTING EVERGREEN TREE SPREAD SHOWN TO SCALE
\mathbb{S}	EXISTING BARB WIRE FENCE EXISTING CHAIN LINK FENCE EXISTING CORRAL TYPE FENCE EXISTING GUARD RAIL EXISTING OVERHEAD UTILITIES EXISTING STORM DRAIN EXISTING SEWER EXISTING GAS DIRECTION OF FLOW AND SLOPE FLOW LINE OF CURB ELEVATION INSTALL STORM DRAIN LINE AND SIZ INSTALL STORM DRAIN LINE AND SIZ INSTALL STORM DRAIN MANHOLE (PER DETAIL 14 SHEET C-502) INSTALL AREA DRAIN PER DETAIL 16 SHEET C-503 INSTALL WATER LINE AND SIZE INSTALL WATER VALVE (PER DETAIL 25 SHEET C-504) INSTALL FIRE HYDRANT, BURY, GATE (PER DETAIL 29 SHEET C-504) 50 WATT ELECTROLIER PER DETAIL 4
	SHEET C-506 100 WATT ELECTROLIER PER DETAIL SHEET C-506 2" ELECTRICAL CONDUIT WITH COND RETAINING WALL PER DETAIL 12 SHEET C-501
	5 STRAND BARBED WIRE FENCE PER DETAIL 31 SHEET C-505 REINFORCED CONCRETE PER DETAIL SHEET C-501
DRAWING SCAL	E AND ORIENTATION
	0 20' 40' A

EXISTING EDGE OF PAVEMENT

$\langle \# \rangle$ **KEY NOTES** INSTALL TEMPORARY BLOWOFF PER DETAIL 24, SHEET C-504. CONNECT TO EXISTING 18" STORM DRAIN. INSTALL 18" STORM DRAIN LINE. INSTALL 15" STORM DRAIN LINE. INSTALL 8" WATER LINE. INSTALL 24" DRAIN INLET PER DETAIL 16 SHEET C-503. (TYPICAL OF 3). INSTALL 12" STORM DRAIN LINE. INSTALL STORM DRAIN MANHOLE PER DETAIL 14 C-502. (TYPICAL OF 2). INSTALL FIRE HYDRANT PER DETAIL 29 SHEET C-504. INSTALL STORM DRAIN CLEAN OUT PER DETAIL 23A SHEET 10 C-504. 11 INSTALL THRUST BLOCKS PER DETAIL 30 SHEET C-504.

FIBER ROLLS SPACED AT 10' INTERVALS (PER =

C SHILL P. SINGLE STILL SHILL ST

(PER CASQA BMP EC-2)

CASQA BMP SE-5)

STORM DRAIN INLET PROTECTION (PER DETAIL ON SHEET C-405)

> REFER TO NORTH BOWL PARKING LOT PHASE 2 IMPROVEMENT PLANS PREPARED BY OTHERS FOR PARKING LOT IMPROVEMENTS.

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DRAWING SCALE AND ORIENTATION

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L-802	ADDENDUNZ	In the second se	No. Description 2 Addendum 2 No. Description 2 Addendum 2 No. Description 2 Addendum 2	Stantec Consulting Services Inc. 1016 12th Street Modesto, CA 95354 (209) 521–9045 fax www.stantec.com Stantec Consulting Services Inc. MECHANICAL ENGINEER / ELECTRICAL ENGINEER 370 N Wiget Lane, Suite 210 Walnut Creek, CA 94598 (925) 941–1400 Cliff Lowe Associates LANDSCAPE ARCHITECT 1175 Folsom Street San Francisco, CA 94103 (415) 431–0394 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing – any errors or omissions shall be reported to Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. Drawing Stage: Mage Stage	University of California Merced, California Project Name: Site Development and Infrastructure Phase 4 Project Number: 906050 Civil Engineer:
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Know what's below. Call before you dig. Drawing Title: TELECOM BLDG. UPGRADES MECHANICAL PLAN Sheet Number:	Drawn By: MH, BV, BW Revision Date: 04.19.2012 Plot Date: 04.19.2012 Scale: AS NOTED Key Plan ADDENDUM 2	UNIVERSITY OF CALIFORNIA, MERCED FIRE MARSHAL Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: Date: Date: UCM Project No.: 906050 NO. AC FLS APPL. NO. APPL. NO. ADDENDIM 1 ADDENDIM 2 Boddendim 1 MO. Description 1 ADDENDIM 2	Copyright Reserved The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing – any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. Drawing Stage: 100% CONSTRUCTION DOCUMENTS Seals and Signatures:	Stantec Consulting Services Inc. MecHANICAL ENGINEER / ELECTRICAL ENGINEER / ELECTRICAL ENGINEER / ELECTRICAL ENGINEER / 209 941–1400	University of California Merced, California Merced California Project Name: Site Development and Infrastructure Phase 4

Sheet Number:	Know what's below. Call before you dig. Drawing Title: PUMP HOUSE MECHANICAL PLAN	Revision Date: 04.19.2012 Plot Date: 04.19.2012 Scale: AS NOTED Key Plan ADDENDUM 2	Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approved is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:	Copyright Reserved The Contractor shall verify and be responsible fu all dimensions. DO NOT scale the drawing – any errors or omissions shall be reported to Stantee without delay. The Copyrights to all designs and drawing stage: Drawing Stage: David Stantec is forbidden. DOCUMENTS Seals and Signatures: UNIVERSITY OF CALIFORNIA, MERCED FIRE MARSHAL	Project Number: 906050 Civil Engineer: Stantec Consulting Services Inc. 1016 12th Street Modesto, CA 95354 (209) 521–9045 fax www.stantec.com Stantec Consulting Services Inc. MECHANICAL ENGINEER / ELECTRICAL ENGINEER 370 N Wiget Lane, Suite 210 Walnut Creek, CA 94598 (925) 941–1400	University of California Merced, California Project Name: Site Development and Infrastructure Phase 4
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Sheet Number: M-152	Know what's below. Call before you dig. Drawing Title: MECHANICAL MECHANICAL ELEVATIONS	ADDENDUM 2	No. Description Issue Date 2 ADDENDUM 2 8/07/20 1 1 1 1 1	UNIVERSITY OF CALIFORNIA, MERCED FIRE MARSHAL Approval of this plan does not authorize or apping any omission or deviation from applicable regulations. Final approved plans shall be available on the project site at all times. Reviewed by: Date: UCM Project No.: 906050 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT FILE NO. 01-UC MERCED APPL. NO. APPL. NO. DATE:	Copyright Reserved The Contractor shall verify and be responsib all dimensions. DO NOT scale the drawing – errors or omissions shall be reported to Sta without delay. The Copyrights to all designs drawings are the property of Stantec. Reproduction or use for any purpose other to that authorized by Stantec is forbidden. Drawing Stage: 100% CONSTRUCTION DOCUMENTS	Civil Engineer: Stantec Consulting Services Inc. 1016 12th Street Modesto, CA 95354 (209) 521–9045 fax www.stantec.com Stantec Consulting Services Inc. MECHANICAL ENGINEER / ELECTRICAL ENGINE 370 N Wiget Lane, Suite 210 Walnut Creek, CA 94598 (925) 941–1400	Project Name: Site Developmer and Infrastructur Phase 4 Project Number: 906050	University of California Merced, California
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