Project Name: **UNIVERSITY OF CALIFORNIA, MERCED**
COB ROOMS 110 & 114 RENOVATIONS
Project No.: **907015**

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 shall be made to the following documents as indicated and all other Contract Documents shall remain the same.

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

A. BID FORM

1. Replace Bid Form with bid form attached to this Addenda

III. CLARIFICATIONS

A. PRE-BID QUESTIONS

NONE

IV. SPECIFICATIONS

A. ADD THE FOLLOWING SPECIFICATION SECTION

1. SECTION 21 13 13 - SPRINKLER SYSTEM, FIRE PROTECTION

B. REVISE THE FOLLOWING SPECIFICATION SECTION

1. SECTION 01 23 00 ALTERNATES

1.2 DESCRIPTION OF ALTERNATES

A. **(ADD#2)~~Additive~~ Alternate No. 1: Provide an alternate acoustical wall panel layout as shown on drawing Sheet A-272(a). DELETE work shown on drawing Sheet A-272 for this bid alternate pricing. (To price this bid alternate, deduct the cost for work shown on drawing Sheet A-272 from the cost of work shown on drawing Sheet A-272(a). (ADD#2)**

2. Specification Section 26 51 00 – Interior Lighting

V. DRAWING SHEETS - Replace the following sheets with the drawings attached to this Addenda.

A. <u>RE-ISSUE THE FOLLOWING DRAWING SHEETS</u>

See drawings for clouded and called out Addendum #2 changes.

1. A-071, COVER SHEET SYMBOLS NOTES AND SCHEDULE
2. A-171, EXISTING FLOOR PLANS & REFLECTED CEILING PLANS
3. A-172, EXISTING INTERIOR ELEVATIONS
4. A-271, NEW FLOOR PLANS & REFLECTED CEILING PLANS
5. A-272, NEW INTERIOR ELEVATIONS
6. A-272(a), NEW INTERIOR ELEVATIONS (BID ALTERNATE)
7. A-571, CLASSROOM REMODEL DETAILS

UNIVERSITY OF CALIFORNIA, MERCED

By: University of California, Merced
University's Representative

_____
Wenbo Yuan
Sr. Project Director

End of Addendum No. 2

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BID FORM

FOR: PROJECT NO. 907015

CLASSROOM & OFFICE BUILDING ROOMS 110 & 114 RENOVATIONS

UNIVERSITY OF CALIFORNIA
MERCED CAMPUS, MERCED COUNTY
MERCED CALIFORNIA

BID TO: PHYSICAL PLANNING, DESIGN & CONSTRUCTION
UNIVERSITY OF CALIFORNIA, MERCED
767 E. YOSEMITE AVE., SUITE C
MERCED CALIFORNIA 95340
TELEPHONE: (209) 228-4479

FOR THE FOLLOWING WORK: ALL WORK AND ASSOCIATED REQUIREMENTS DEFINED IN THE PROJECT DOCUMENTS AND SECTION 01 11 00 - SUMMARY OF WORK.

BID FROM: _____
(Name of Firm Submitting Bid)

_____
(Address)

_____ _____ _____
(City) (State) (Zip Code)

_____ _____
(Telephone Number) (Fax Number)

_____
(Date Bid Submitted)

Note: All portions of this Bid Form must be completed and the Bid Form must be signed before the Bid is submitted. Failure to do so will result in the Bid being rejected as non-responsive.

1. 0 BIDDER'S REPRESENTATIONS

Bidder, represents that a) Bidder and all Subcontractors, regardless of tier, has the appropriate current and active Contractor's license required by the State of California and the Bidding Documents; b) it has carefully read and examined the Bidding Documents for the proposed Work on this Project; c) it has examined the site of the proposed Work and all Information Available to Bidders; d) it has become familiar with all the conditions related to the proposed Work, including the availability of labor, materials, and equipment. Bidder hereby offers to furnish all labor, materials, equipment, tools, transportation, and services necessary to complete the proposed Work on this Project in accordance with the Contract Documents for the sums quoted. Bidder further agrees that it will not withdraw its Bid within 60 days after the Bid Deadline, and that, if it is selected as the apparent lowest responsive and responsible Bidder, that it will, within 10 days after receipt of notice of selection, sign and deliver to University the Agreement in triplicate and furnish to University all items required by the Bidding Documents. If awarded the Contract, Bidder agrees to complete the Work within **XX** calendar days after the date of commencement specified in the Notice to Proceed.

2.0 ADDENDA

Bidder acknowledges that it is Bidder's responsibility to ascertain whether any Addenda have been issued and if so, to obtain copies of such Addenda from University's Facility at the appropriate address stated on Page 1 of the Advertisement for Bids. Bidder therefore agrees to be bound by all Addenda that have been issued for this Bid.

3.0 (NOT USED)

4.0 LUMP SUM BASE BID

$ | | , | | | | , | | | | . | |

(Place figures in appropriate boxes.)

Bidder shall also include in the LUMP SUM BASE BID the following allowance: **NOT USED**

5.0 SELECTION OF APPARENT LOW BIDDER

Refer to the Instructions to Bidders for selection of apparent low bidder.

6.0 UNIT PRICES (NOT USED)

7.0 DAILY RATE OF COMPENSATION FOR COMPENSABLE DELAYS

Bidder shall determine and provide in the space below, the daily rate of compensation for any compensable delay caused by University at any time during the performance of the Work:

(MINIMUM AMOUNT ALLOWED IS $1.00. Failure to fill in a dollar figure for the daily rate for Compensable Delay at or greater than the Minimum Compensable Daily Rate shall rend the bid non-responsive.)

$ [ ][ ] , [ ][ ][ ] . [ ][ ] x $\frac{10}{\text{multiplier}}$

(Place figures in appropriate boxes.)

Failure to fill in a dollar figure for the daily rate for Compensable Delay shall render the bid non-responsive. University will perform the extension of the daily rate times the multiplier.

The daily rate shown above will be the total amount of Contractor entitlement for each day of Compensable Delay caused by University at any time during the performance of the Work and shall constitute payment in full for all delay costs, direct or indirect (including, without limitation, compensation for all extended home office overhead and extended general conditions), of the Contractor and all subcontractors, suppliers, persons, and entities under or claiming through Contractor on the Project. The number of days of Compensable Delay shown as a "multiplier" above is not intended as an estimate of the number of days of Compensable Delay anticipated by the University. The University will pay the daily rate of compensation only for the actual number of days of Compensable Delay, as defined in the General Conditions; the actual number of days of Compensable Delay may be greater or lesser than the "multiplier" shown above.

8.0 ALTERNATES

In order for a Bid to be responsive, Bidder must submit bid for Alternates listed below. The failure to do so shall result in the Bid being rejected as non-responsive.

ALTERNATE #1

DESCRIPTION: Alternate acoustical wall panel layout

ADD or DEDUCT

[ ] $ [ ][ ][ ] , [ ][ ][ ] . [ ][ ]

9.0 LIST OF SUBCONTRACTORS

Bidder will use Subcontractors for the Work: (Yes or No) _____

If yes, provide in the spaces below (a) the name and the location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement, or a subcontractor licensed by the state of California who, under subcontract to the prime contractor, specifically fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of 1/2 of 1 percent of the prime contractor's total bid, (b) the portion of the work which will be done by each subcontractor. The prime contractor shall list only one subcontractor for each such portion as is defined by the prime contractor in its bid.

	Subcontractor	
Work Activity	Name	Location (City)

(Note: Add additional pages if required.)

10. LIST OF CHANGES IN SUBCONTRACTORS DUE TO ALTERNATES

The information below must be provided for all changes in first-tier Subcontractors if University selects Alternates. List changes in Subcontractors only for those portions of the Work valued in excess of 1/2 of 1% of Bidder's Total Bid.

		Subcontractor	
Alternate No.	Work Activity	Name	Location (City)

(Note: Add additional pages if required.)

11.0 BIDDER INFORMATION

TYPE OF ORGANIZATION:

_____

(Corporation, Partnership, Individual, Joint Venture, etc.)

If a corporation, corporation is organized under the laws of:
the State of._____

NAME OF PRESIDENT OF THE CORPORATION:

_____

NAME OF SECRETARY OF THE CORPORATION:

_____

IF A PARTNERSHIP, NAMES OF ALL GENERAL PARTNERS:

_____

_____

_____

_____

CALIFORNIA CONTRACTORS LICENSE(S):

_____ _____
(Name of Licensee) (Classification)

_____ _____
(License Number) (Expiration Date)

(For Joint Venture, list Joint Venture's license and licenses for all Joint Venture partners.)

12. REQUIRED COMPLETED ATTACHMENTS

The following documents are submitted with and made a condition of this Bid:

1. Bid Security in the form of _____
(Bid Bond or Certified Check)

13.0 DECLARATION

I, _____ (Printed name), hereby declare that I am the _____ (Title) of _____ _____ (Name of bidder) submitting this Bid Form; that I am duly authorized to execute this Bid Form on behalf of Bidder; and that all information set forth in this Bid Form and all attachments hereto are, to the best of my knowledge, true, accurate, and complete as of its submission date.

I further declare that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidders to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding' that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure an advantage against the public body awarding the contract of anyone interested in the proposed contract' that all statements contained in the bid are true; an, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay any fee to any corporation, partnership, company association, organization, bid depository, or any member or agent thereof to effectuate a collusive or sham bid.

I declare, under penalty of perjury, that the foregoing is true and correct and that this declaration was subscribed at: _____
(Name of City if within a City, otherwise Name of County), in the State of _____ _____, on _____ (Date).

_____
(Signature)

Classroom and Office Building Rooms 110 & 114 Renovations

Sheet Number	Sheet Name	Addendum 1	Addendum 2
A-071	COVER SHEET SYMBOLS NOTES AND SCHEDULE		8/16/2012
A-717	EXISITING FLOOR PLANS AND REFLECTED CEILING PLANS		8/16/2012
A-172	EXISTING INTERIOR ELEVATIONS		8/16/2012
A-271	NEW FLOOR PLANS & REFLECTED CEILING PLANS		8/16/2012
A-272	NEW INTERIOR ELEVATIONS		8/16/2012
A-272(a)	NEW INTERIOR ELEVATIONS (BID ALTERNATE)		8/16/2012
A-571	CLASSROOM REMODEL DETAILS		8/16/2012

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.

1.2 DESCRIPTION OF ALTERNATES

A. **Alternate No. 1:**

1. Provide an alternate acoustical wall panel layout as shown on drawing sheet A-272(a).

DELETE work shown on drawing Sheet A-272 for this bid alternate pricing. (To price this bid alternate, deduct the cost for work shown on drawing Sheet A-272 from the cost of work shown on drawing Sheet A-272(a) ADDENDUM 2

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 23 00

SECTION 21 1313

SPRINKLER SYSTEM, FIRE PROTECTION

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. Work Included: Design and build installation of piping and sprinkler to cover the UPS enclosure. Furnish piping offsets, fittings, and any other accessories as required to provide a complete installation and to eliminate interference with other construction. Install sprinkler to provide coverage in the UPS enclosure area. New piping and sprinkler to match existing building system. Except as modified herein, the system shall be designed and installed in accordance with NFPA 13. Design the sprinkler system including locating sprinklers, piping and equipment, and size piping and equipment. The design of the sprinkler system shall be based on hydraulic calculations, and the other provisions specified herein.

1.03 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced.The publications are referred to within the text by the basic designation only.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 101 (2009; TIA 09-1; TIA 09-2) Life Safety Code

NFPA 13 (2010; Errata 10-1; TIA 10-1) Installation of Sprinkler Systems

AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE)

ASSE 1015 (2009) Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies

(ANSI Approved 2010) AMERICAN WATER WORKS ASSOCIATION (AWWA)

AWWA B300 (2010) Hypochlorites

AWWA B301 (2010) Liquid Chlorine

AWWA C110/A21.10 (2008) Ductile-Iron and Gray-Iron Fittings for Water

AWWA C111/A21.11 (2007) Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings

AWWA C151/A21.51 (2009) Ductile-Iron Pipe, Centrifugally Cast

ASME INTERNATIONAL (ASME)

ASME B16.1 (2010) Standard for Gray Iron Threaded Fittings; Classes 125 and 250

1.04 SUBMITTALS

1.4.1 Hydraulic Design

Hydraulically design the system per UFC 3-600-01 and NFPA 13.

1.4.2 Hydraulic Calculations

Prepare hydraulic calculations as outlined in NFPA 13, except that calculations shall be performed by computer using software intended specifically for fire protection system design using the design data shown on the drawings. Software that uses k-factors for typical branch lines is not acceptable. Indicate the diameter, length, flow, velocity, friction loss, number and type fittings, total friction loss in the pipe, equivalent pipe length and Hazen-Williams coefficient for each pipe.A drawing showing hydraulic reference points (nodes) and pipe designations used in the calculations shall be included and shall be independent of shop drawings.

1.4.3 Sprinkler Coverage

Sprinklers shall provide coverage in the UPS enclosure in accordance with NFPA 13. Coverage per sprinkler shall be in accordance with NFPA 13.

1.05 SUBMITTALS

A. Shop Drawings

Three copies of the Sprinkler System Shop Drawings, no later than 21 days prior to the start of sprinkler system installation.

B. As-Built Drawings

As-built shop drawings, at least 14 days after completion of the Final Tests, updated to reflect as-built conditions after all related work is completed.

C. Design Data

Hydraulic calculations, including a drawing showing hydraulic reference points and pipe segments.

1.06 QUALITY ASSURANCE

A. Compliance with referenced NFPA standards is mandatory. This includes advisory provisions listed in the appendices of such standards, as though the word "shall" had been substituted for the word "should" wherever it appears. In the event of a conflict between specific provisions of this specification and applicable NFPA standards, this specification shall govern. Reference to "authority having jurisdiction" shall be interpreted to mean the Design Builder.

1.6.1 Sprinkler System Installer

Work specified in this section shall be performed by the Sprinkler System Installer who is regularly engaged in the installation of the type and complexity of system specified in the contract documents, and shall have served in a similar capacity for at least three systems that have performed in the manner intended for a period of not less than 6 months.

1.07 PRODUCT HANDLING

A. Storage of Materials:
1. Store only acceptable Project materials on Project site.
2. Store in suitable location.
3. Restrict storage to paint materials and related equipment.
4. Comply with health and fire regulations.

PART 2 PRODUCTS

2.1 STANDARD PRODUCTS

Provide materials and equipment which are standard products of a manufacturer regularly engaged in the manufacture of such products and that essentially duplicate items that have been in satisfactory use for at least 2 years prior to bid opening.

2.2 NAMEPLATES

All equipment shall have a nameplate that identifies the manufacturer's name, address, type or style, model or serial number, and catalog number.

2.3 REQUIREMENTS FOR FIRE PROTECTION SERVICE

Provide Materials and Equipment that have been tested by Underwriters Laboratories, Inc. and are listed in UL Fire Prot Dir or approved by Factory Mutual and listed in FM P7825a and FM P7825b. Where the terms "listed" or "approved" appear in this specification, such shall mean listed in UL Fire Prot Dir or FM P7825a and FM P7825b

2.4 ABOVEGROUND PIPING COMPONENTS

Aboveground piping shall be steel or plastic.

2.5. Steel Piping Components

2.5.1 Steel Pipe

Except as modified herein, steel pipe shall be Schedule 40, and shall conform to applicable provisions of ASTM A 795/A 795M, ASTM A 53/A 53M, or ASTM A 135/A 135M. Pipe shall be marked with the name of the manufacturer, kind of pipe, and ASTM esignation.Schedule 10 piping shall be permitted for sizes larger than two inches.

2.5.2 Fittings for Non-Grooved Steel Pipe

Fittings shall be cast iron conforming to ASME B16.4, steel conforming to ASME B16.9 or ASME B16.11, or malleable iron conforming to ASME B16.3.

Fittings into which sprinklers, drop nipples or riser nipples (sprigs) are screwed shall be threaded type. Plain-end fittings with mechanical couplings, fittings that use steel gripping devices to bite into the pipe and segmented welded fittings shall not be used.

2.5.3 Grooved Mechanical Joints and Fittings

Joints and fittings shall be designed for not less than 175 psi service and shall be the product of the same manufacturer;segmented welded fittings shall not be used. Fitting and coupling houses shall be malleable iron conforming to ASTM A 47/A 47M, Grade 32510; ductile iron conforming to ASTM A 536, Grade 65-45-12. Gasket shall be the flush type that fills the entire cavity between the fitting and the pipe. Nuts and bolts shall be heat-treated steel conforming to ASTM A 183 and shall be cadmium plated or zinc electroplated.

2.5.4 Flanges

Flanges shall conform to NFPA 13 and ASME B16.1. Gaskets shall be non-asbestos compressed material in accordance with ASME B16.21, 1/16 inch thick, and full face or self-centering flat ring type.

2.5.5 Bolts, Nut, and Washers

Bolts shall be conform to ASTM A 449, Type 1 and shall extend no less than three full threads beyond the nut with bolts tightened to the required torque. Nuts shall be hexagon type conforming to ASME B18.2.2, ASTM A 193/A 193M, Grade 5 or ASTM A 563, Grade C3, DH3. Washers shall meet the requirements of ASTM F 436. Flat circular washers shall be provided under all bolt heads and nuts.

2.5.6 Pipe Hangers

Hangers shall be listed in UL Fire Prot Dir or FM P7825a and FM P7825b and of the type suitable for the application, construction, and pipe type and sized to be supported.

2.5.7 Valves

2.5.7.1 Control Valve and Gate Valve

Manually operated sprinkler control valve and gate valve shall be outside stem and yoke (OS&Y) type and shall be listed in UL Bld Mat Dir or FM P7825aand FM P7825b.

2.5.7.2 Check Valve

Check valve 2 inches and larger shall be listed in UL Bld Mat Dir or FM P7825a and FM P7825b. Check valves 4 inches and larger shall be of the swing type with flanged cast

iron body and flanged inspection plate, shall have a clear waterway and shall meet the requirements of MSS SP-71, for Type 3 or 4.

2.6 ALARM CHECK VALVE ASSEMBLY

Assembly shall include a check valve, standard trim piping, pressure gauges, bypass, testing valves, main drain, and other components as required for a fully operational system.

2.10 SPRINKLERS

Sprinklers with internal O-rings shall not be used. Sprinklers shall be used in accordance with their listed coverage limitations. Temperature classification shall be ordinary. Sprinklers in high heat areas shall have temperature classification in accordance with NFPA 13. Extended coverage sprinklers shall not be used.

2.10.1 Pendent Sprinkler

Pendent sprinkler shall be of the fusible strut or glass bulb type, quick-response type with nominal 1/2 inch orifice. Pendent sprinklers shall have a white polyester finish.

2.10.2 Upright Sprinkler

Upright sprinkler shall be brass and shall have a nominal 1/2 inch orifice.

2.10.3 Dry Sprinkler Assembly

Dry sprinkler assembly shall be of the sidewall type as indicated. Assembly shall include an integral escutcheon. Maximum length shall not exceed maximum indicated in UL Fire Prot Dir.

2.11 DISINFECTING MATERIALS

2.11.1 Liquid Chlorine

Liquid chlorine shall conform to AWWA B301.

2.11.2 Hypochlorites

Calcium hypochlorite and sodium hypochlorite shall conform to AWWA B300.

PART 3 EXECUTION

3.01 FIELD MEASUREMENTS

After becoming familiar with all details of the work, verify all dimensions in the field, and advise the University of any discrepancy before performing the work.

3.02 INSTALLATION REQUIREMENTS

The installation shall be in accordance with the applicable provisions of NFPA 13, NFPA 24 and publications referenced therein.

3.03 ABOVEGROUND PIPING INSTALLATION

3.03.1 Protection of Piping Against Earthquake Damage

Seismically protect the system piping against damage from earthquakes. This requirement is not subject to determination under NFPA 13. Install the seismic protection of the system piping in accordance with UFC 3-310-04, NFPA 13 and Annex A. Include the required features identified therein that are applicable to the specific piping system.

3.03.2 Piping in Exposed Areas

Install exposed piping without diminishing exit access widths, corridors or equipment access. Exposed horizontal piping, including drain piping, shall be installed to provide maximum headroom.

3.03.3 Piping in Finished Areas

In areas with suspended or dropped ceilings and in areas with concealed spaces above the ceiling, piping shall be concealed above ceilings. Piping shall be inspected, tested and approved before being concealed. Risers and similar vertical runs of piping in finished areas shall be concealed.

3.03.4 Pendent Sprinklers

Drop nipples to pendent sprinklers shall consist of minimum 1 inch pipe with a reducing coupling into which the sprinkler shall be threaded. Hangers shall be provided on arm-overs to drop nipples supplying pendent sprinklers when the arm-over exceeds 12 inches for steel pipe or 6 inches for copper tubing.

3.03.5 Upright Sprinklers

Riser nipples or "sprigs" to upright sprinklers shall contain no fittings between the branch line tee and the reducing coupling at the sprinkler. Riser nipples exceeding 30 inches in length shall be individually supported.

3.03.6 Pipe Joints

Pipe joints shall conform to NFPA 13, except as modified herein. Not more than four threads shall show after joint is made up. Welded joints will be permitted, only if welding operations are performed as required by NFPA 13 at the Contractor's fabrication shop, not at the project construction site. Flanged joints shall be provided where indicated or required by NFPA 13. Grooved pipe and fittings shall be prepared in accordance with the manufacturer's latest published specification according to pipe material, wall thickness and size. Grooved couplings, fittings and grooving tools shall be products of the same manufacturer. For copper tubing, pipe and groove dimensions shall comply with the tolerances specified by the coupling manufacturer. The diameter of grooves made in the field shall be measured using a "go/no-go" gauge, vernier or dial caliper, narrow-land micrometer, or other method specifically approved by the coupling manufacturer for the intended application. Groove width and dimension of groove from end of pipe shall be measured and recorded for each change in grooving tool setup to verify compliance with coupling manufacturer's tolerances. Grooved joints shall not be used in concealed locations, such as behind solid walls or ceilings, unless an access panel is shown on the drawings for servicing or adjusting the joint.

3.03.7 Reducers

Reductions in pipe sizes shall be made with one-piece tapered reducing fittings. The use of grooved-end or rubber-gasketed reducing couplings will not be permitted. When standard fittings of the required size are not manufactured, single bushings of the face type will be permitted. Where used, face bushings shall be installed with the outer face flush with the face of the fitting opening being reduced. Bushings shall not be used in elbow fittings, in more than one outlet of a tee, in more than two outlets of a cross, or where the reduction in size is less than 1/2 inch.

3.03.8 Pipe Penetrations

Cutting structural members for passage of pipes or for pipe-hanger fastenings will not be permitted. Pipes that must penetrate concrete or masonry walls or concrete floors shall be core-drilled and provided with pipe sleeves. Each sleeve shall be Schedule 40 galvanized steel, ductile iron or cast iron pipe and shall extend through its respective wall or floor and be cut flush with each wall surface. Sleeves shall provide required clearance between the pipe and the sleeve per NFPA 13. The space between the sleeve and the pipe shall be firmly packed with mineral wool insulation. Where pipes penetrate fire walls, fire partitions, or floors, pipes shall be fire stopped in accordance with Section 07 84 00 FIRESTOPPING. In penetrations that are not fire-rated or not a floor penetration, the space between the sleeve and the pipe shall be sealed at both ends with plastic waterproof cement that will dry to a firm but pliable mass or with a mechanically adjustable segmented elastomer seal.

3.03.9 Escutcheons

Escutcheons shall be provided for pipe penetration of ceilings and walls. Escutcheons shall be securely fastened to the pipe at surfaces through which piping passes.

3.03.10 Hydrostatic Testing

Aboveground piping shall be hydrostatically tested in accordance with NFPA 13 at not less than 200 psi or 50 psi in excess of maximum system operating pressure and shall maintain that pressure without loss for 2 hours. There shall be no drop in gauge pressure or visible leakage when the system is subjected to the hydrostatic test. The test pressure shall be read from a gauge located at the low elevation point of the system or portion being tested.

END OF SECTION

SECTION 26 5100

INTERIOR LIGHTING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Existing interior ceiling mounted room lighting fixtures, lamps, and ballasts. (Identified as F74C on original building drawings)
2. Existing interior wall mounted white board lighting units, lamps, and ballasts. (Identified as F23B on original building drawings)
3. Existing illuminated exit signs.
4. Lighting fixture supports
5. Existing and new lighting control systems which may include control modules, power packs, dimming ballasts, occupancy sensors, light level sensors and switches.

1.2 DEFINITIONS

A. BF: Ballast factor.

B. CRI: Color-rendering index.

C. CU: Coefficient of utilization.

D. HID: High-intensity discharge.

E. LER: Luminaire efficacy rating.

F. Luminaire: Complete lighting fixture, including ballast housing if provided.

G. RCR: Room cavity ratio.

Unless otherwise specified or indicated, electrical and electronic terms used in these specifications, and on the drawings, shall be as defined in IEEE 100.

Average life is the time after which 50 percent will have failed and 50 percent will have survived under normal conditions.

1.3 SUBMITTALS

A. Product Data: For each type of lighting fixture component replaced or added for a complete installation. Include data on features, accessories, finishes, and the following:

1. Physical description of component including dimensions. This information may be supplemented by catalog data, and shall contain a list of vendors with vendor part numbers.

ADDENDUM #2

2. Environment information: Submit documentation that includes contact information, summary of procedures, and the limitations and conditions applicable to the project. Indicate manufacturer's commitment to reclaim materials for recycling and/or reuse. Documentation indicating distance between manufacturing facility and the project site. Indicate distance of raw material origin from the project site. Indicate relative dollar value of local/regional materials to total dollar value of products included in project.
3. Operation and maintenance data for all replaced and new components as noted on the drawings which may include light fixtures, control modules, control zones, occupancy sensors, light level sensors, power packs, dimming ballasts, schematic diagrams and all interconnecting control wire, conduit, and associated hardware.
4. Regulatory requirements: Equipment, materials, installation, and workmanship shall be in accordance with the provisions of NFPA 70 and NFPA 101, unless more stringent requirements are required by the manufacturer or university standards.
5. New lamps and/or ballasts.
6. Energy-efficiency data.

B. Shop Drawings: Show details of all systems and components added for a complete lighting fixture system as noted and shown on drawings. Indicate dimensions, weights, methods of field assembly, components, features, and accessories.

1. Wiring Diagrams: Power and control wiring. Clearly indicate how existing systems shall be adjusted and how new connections shall be made to existing systems.

C. Coordination Drawings: Reflected ceiling plan(s) and other details, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:

1. Existing lighting fixture bracing through new ceiling.
2. Structural members to which suspension systems for lighting fixtures will be attached and the attachment method.
3. Other items in finished ceiling including the following:

a. Piping.
b. Sprinklers.
c. Smoke and fire detectors.
d. Occupancy sensors.

1.4 COORDINATION

A. Coordinate layout and installation of lighting fixture bracing and suspension system with other construction that penetrates the new ceiling or is supported by them, including piping and supports, HVAC equipment, fire-suppression system, and partition assemblies.

1.5 WARRANTY

A. The equipment items and components shall be supported by service organizations which are reasonably convenient to the equipment installation in order to render satisfactory service to the equipment on a regular and emergency basis during the warranty period of the contract.

B. Special Warranty for Ballasts: Manufacturer's standard form in which ballast manufacturer agrees to repair or replace ballasts that fail in materials or workmanship within specified warranty period.

1. Warranty Period for new Electronic Ballasts: Five years from date of Substantial Completion. Ballast assembly in the lighting fixture, transportation, and on-site storage shall not exceed 12 months, thereby permitting 4 years of the ballast 5 year warranty to be in service and energized. The warranty shall state that the malfunctioning ballast shall be exchanged by the manufacturer and promptly shipped to the using facility. The replacement ballast shall be identical to, or an improvement upon, the original design of the malfunctioning ballast.

PART 2 - PRODUCTS

2.1 LIGHTING FIXTURES AND COMPONENTS, GENERAL REQUIREMENTS

A. Lighting Fixtures: Clean and repair all existing fixtures and components to like-new condition. Replace existing fixtures and components which cannot be satisfactorily repaired with units that match original design.

B. Metal Parts: Free of burrs and sharp corners and edges.

C. Sheet Metal Components: Steel, unless otherwise indicated. Form and support to prevent warping and sagging.

D. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position.

E. Reflecting surfaces shall have minimum reflectance as follows, unless otherwise indicated:

1. White Surfaces: 85 percent.
2. Specular Surfaces: 83 percent.
3. Diffusing Specular Surfaces: 75 percent.
4. Laminated Silver Metallized Film: 90 percent.

F. Plastic Diffusers, Covers, and Globes:

1. Replace damaged units with matching ones that have high resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.

a. Lens Thickness: Typically 0.125 inch (3.175 mm) minimum, unless different thickness is indicated by manufacturer.
b. UV stabilized.

2. Glass: Annealed crystal glass, unless otherwise indicated.

G. Electromagnetic-Interference Filters: Factory installed to suppress conducted electromagnetic-interference as required by MIL-STD-461E. Fabricate lighting fixtures with one filter on each

ballast as provided on original installation. (Note: These filters are required only on new ballasts and only if provided in original installation.)

2.2 FLUORESCENT LAMP ELECTRONIC BALLAST

A. Fluorescent fixtures shall have electronic ballasts unless specifically indicated otherwise, UL 1598.

B. The electronic ballast shall as a minimum meet the following characteristics:

1. Ballast shall comply with UL 935, ANSI C82.11, NFPA 70, and CEC Title 24.
2. Sound Rating: A.
3. Total Harmonic Distortion Rating: Less than 15 percent.
4. Transient Voltage Protection: IEEE C62.41, Category A or better.
5. Lamp Current Crest Factor: 1.5 or less.
6. Power Factor: .90 or higher.
7. Interference: Comply with 47 CFR, Chapter 1, Part 18, Subpart C, for limitations on electromagnetic and radio-frequency interference for non-consumer equipment.
8. Protection: Class P thermal cutout.
9. Each ballast shall have circuit diagrams and lamp connections displayed on the ballast.
10. Ballasts shall be designed for the wattage of the lamps used in the indicated application.
11. Ballasts shall be designed to operate on the voltage system to which they are connected.

2.3 EMERGENCY LIGHTING UNITS AND EXIT SIGNS

A. Description: Self-contained units complying with UL 924 for sign colors, visibility, luminance, and lettering size, comply with authorities having jurisdiction.

1. Battery: Sealed, maintenance-free, lead-acid type.
2. Charger: Fully automatic, solid-state type with sealed transfer relay.
3. Operation: Relay automatically turns lamp on when power supply circuit voltage drops to 80 percent of nominal voltage or below. Lamp automatically disconnects from battery when voltage approaches deep-discharge level. When normal voltage is restored, relay disconnects lamps from battery, and battery is automatically recharged and floated on charger.
4. Test Push Button: Push-to-test type, in unit housing, simulates loss of normal power and demonstrates unit operability.
5. LED Indicator Light: Indicates normal power on. Normal glow indicates trickle charge; bright glow indicates charging at end of discharge cycle.
6. Wire Guard: Heavy-chrome-plated wire guard protects lamp heads or fixtures.
7. Integral Time-Delay Relay: Holds unit on for fixed interval of 15 minutes when power is restored after an outage.
8. Remote Test: Switch in hand-held remote device aimed in direction of tested unit initiates coded infrared signal. Signal reception by factory-installed infrared receiver in tested unit triggers simulation of loss of its normal power supply, providing visual confirmation of either proper or failed emergency response.
9. Integral Self-Test: Factory-installed electronic device automatically initiates code-required test of unit emergency operation at required intervals. Test failure is annunciated by an integral audible alarm and flashing red LED.

2.4 LABLES AND FINISH

A. Provide labeled luminaires in accordance with UL 1598 requirements. All luminaires shall be clearly marked for operation of specific lamps and ballasts according to proper lamp type. All markings related to lamp type shall be clear and located to be readily visible to service personnel. Ballasts shall have clear markings indicating multi-level outputs and indicate proper terminals for the various outputs.

B. Electrical equipment shall have factory-applied painting systems which shall, as a minimum, meet the requirements of NEMA 250 corrosion-resistance test.

2.5 LIGHTING FIXTURE SUPPORT COMPONENTS

A. Provide all necessary new hardware to install and secure lighting fixtures with fixture supports for conditions indicated on drawings. Each fixture to have a short pigtail with appropriate plug. A mating receptacle will be installed near each fixture to plug fixture into. This will allow easy removal of fixture for maintenance at floor level rather than from ladder

B. Rod Hangers: 3/16-inch minimum diameter, cadmium-plated, threaded steel rod.

C. Hook Hangers: Integrated assembly matched to fixture and line voltage and equipped with threaded attachment, cord, and locking-type plug.

D. Suspended fixtures: Provide hangers capable of supporting twice the combined weight of fixtures supported by hangers. Provide with swivel hangers to ensure a plumb installation. Hangers shall be cadmium-plated steel with a swivel-ball tapped for the conduit size shown in shop drawings. Hangers shall allow fixtures to swing within an angle of 45 degrees. Brace pendant fixture hangers within 2-inches above the new ceiling main runners and cross tees as provided in shop drawings to limit swinging and interference with new ceiling system. Single-unit suspended fluorescent fixtures shall have twin-stem hangers. Multiple-unit or continuous row fluorescent fixtures shall have a tubing or stem for wiring at one point and a tubing or rod suspension provided for each unit length of chassis, including one at each end.

2.6 REQUIREMENTS FOR INDIVIDUAL LIGHTING FIXTURES

A. Fixture Type: Match existing when replacement is necessary.

1. Manufacturers: Match existing or University approved equal.
2. Submit sample of alternate for University approval, if existing is unavailable.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Lighting fixtures: Set level, plumb, and square with ceilings and walls. Install lamps in each fixture.

B. Suspended Lighting Fixture Support:

1. Pendants and Rods: Brace to limit swinging just above finished ceiling and provide grommet in ceiling tile to allow for movement. Suspended light fixture support components shall not fasten to or penetrate new ceiling main runners and cross tees.

C. Electrical installations shall conform to IEEE C2, NFPA 70, and to the manufacturers written requirements.

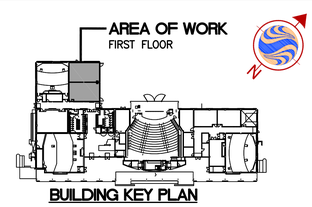
D. Upon completion of installation, verify that equipment is properly installed, connected, and adjusted. Conduct an operating test to show that equipment operates in accordance with requirements of this section, the drawings, and university standards.

3.2 FIELD QUALITY CONTROL

A. Test for Emergency Lighting: Interrupt power supply to demonstrate proper operation. Verify transfer from normal power to battery and retransfer to normal.

B. Prepare a written report of tests, inspections, observations, and verifications indicating and interpreting results. If adjustments are made to lighting system, retest to demonstrate compliance with standards.

END OF SECTION 26 5100



GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND MAY NOT CONTAIN ALL THE REQUIREMENTS OR INFORMATION OF THE COMPLETED PROJECT. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY, ACCOMMODATE ACTUAL FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES TO PROVIDE A COMPLETE FINISHED SPACE TO MEET UNIVERSITY REQUIREMENTS.

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.

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 WITH THE WORK.

4. THE CONTRACTOR TO VERIFY AND COORDINATE ROUTING OF DUCTWORK, CONDUIT, PIPING, ETC. WITH EACH DISCIPLINE AND WITH STRUCTURE. ANY SHOP DRAWINGS SHALL BE MADE BY THE SUBCONTRACTOR SHOWING OVERLAY OF ALL DISCIPLINES. THE ROUTING OF ALL DUCTWORK, CONDUIT, PIPING, ETC. IS TO BE FIELD VERIFIED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ADJUSTMENTS OR ANY MODIFICATIONS NECESSARY TO PROVIDE THE DESIRED FUNCTION OF THE SYSTEM.

5. CONTRACTOR SHALL KEEP PREMISES (WORK AREA) CLEAN DAILY, BROOM CLEAN AT PROJECT COMPLETION, AND SHALL REMOVE ALL REFUSE FROM SITE. ALL REMOVED MATERIALS, REFUSE, AND DEBRIS SHALL BE PROPERLY DISPOSED OF. COORDINATE WITH UNIVERSITY'S REPRESENTATIVE BEFORE HAULING FROM SITE.

6. RESPONSES TO THE FINAL WALK–THRU PUNCH LIST SHALL BE PROVIDED WITHIN A WEEK AFTER THE WALK–THRU.

7. 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.

8. ALL THE DROPS AND RISES IN DUCTWORK, CONDUIT OR PIPING MAY NOT BE SHOWN. OFFSET, DROP OR RISE TO ACCOMMODATE FIELD CONDITIONS. CONTRACTOR TO VERIFY MOUNTING ELEVATION IS COORDINATED WITH (E) DUCTWORK, (E) CABLE TRAY, (E) CONDUIT, OR (E) PIPING ELEVATION AND LOCATION.

9. 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.

10. 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.

11. THE CONTRACTOR SHALL INSPECT JOB SITE TO VERIFY FIELD CONDITIONS PRIOR TO THE START OF WORK. NOT ALL EXISTING CONDITIONS ARE INDICATED ON THE PLANS.

12. MAINTAIN ALL MECHANICAL, PLUMBING, ELECTRICAL, ALARM, AND TELECOM SYSTEMS IN SERVICE OUTSIDE OF THE AREA OF NEW WORK UNDER THIS PHASE OF WORK. PROVIDE REQUIRED MEANS OF MAINTAINING CONTINUITY AND OPERATION OF THESE SYSTEMS.

13. DO NOT DISABLE OR DISTURB ANY SYSTEM PRIOR TO OBTAINING PERMISSION FROM THE UNIVERSITY'S PROJECT MANAGER. NOTIFY OWNER'S PROJECT MANAGER AT LEAST 48 HOURS PRIOR TO DISABLING OR SHUTTING DOWN ANY SYSTEM.

14. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON DRAWINGS.

15. ALL DIMENSIONS TO OPENINGS ARE TO THE FINISHED FACE UNLESS NOTED OTHERWISE.

16. ALL DIMENSIONS TO STUD PARTITIONS, CONCRETE WALL, OR METAL STOREFRONT FRAME ARE TO THE FACE OF FINISH UNLESS NOTED OTHERWISE.

17. ACOUSTICAL TILE CEILING HEIGHT DIMENSIONS ARE FROM FINISHED SEALED SLAB FLOOR TO FINISH FACE OF EXPOSED TEE SYSTEM.

18. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH THE WORK.

19. DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.

20. ALL NEW WORK SHALL NOT IMPAIR THE PROPER OPERATION OR FUNCTION OF EXISTING EQUIPMENT IN EACH CLASSROOM OR ADJACENT SPACES IN BUILDING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ORDERING ANY MATERIAL OR STARTING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE UNIVERSITY'S PROJECT MANAGER FOR RESOLUTION PRIOR TO BEGINNING THAT AREA OF WORK.

COMMON ABBREVIATIONS

A.B.	ANCHOR BOLT
AL	ALUMINUM
A/E	ARCHITECT/ENGINEER
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AVC	AUDIO/VIDEO CONSULTANT
BLDG.	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT.	BOTTOM
B.U.R.	BUILT UP ROOFING
CBC	CALIFORNIA BUILDING CODE
C.J.	CONTROL JOINT
CLG	CEILING
CLKG	CAULKING
CMU	CONC MASONRY UNIT
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DTL	DETAIL
DIA.	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP.	DISPENSER
DR	DOOR
DRWG(S)	DRAWING(S)
DS	DOWNSPOUT
DSA	DIVISION OF THE STATE ARCHITECT
(E)	EAST
E	EXISTING
EA.	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL (AL)
EQ	EQUAL
EQUIP	EQUIPMENT
EXH	EXHAUST
EXIST	EXISTING (SEE (E))
EXP	EXPANSION
FB	FLAT BAR
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FF	FACTORY FINISHED
FIN	FINISH
FLR	FLOOR
F.O.C.	FACE OF CONC.
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
FT	FOOT OR FEET
FTG	FOOTING
FUR	FURRING
GA	GAUGE
GALV	GALVANIZED
G.I.	GALVANIZED IRON
GL	GLASS OR GLAZING
GR	GRADE
GSM	GALVANIZED SHEET MTL.
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HDR	HEADER
H.M.	HOLLOW METAL
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
I.D.	INSIDE DIAMETER
IN	INCH OR INCHES
INS	INSULATION
INV	INVERT
JST	JOIST
JT	JOINT
KPL	KICKPLATE
LAM.	LAMINATE
LB	LAG BOLT
LT	LIGHT
MAX	MAXIMUN
M.B.	MACHINE BOLT
MECH	MECHANICAL
MEMB	MEMBRANE
MTL	METAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MU	MASONRY UNIT
N	NORTH
(N)	NEW
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OPNG	OPENING
PL	PLATE
PLAS	PLASTER
PLYWD	PLYWOOD
PR	PAIR
P.T.	PAPER TOWEL
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RD	ROOF DRAIN
REG	REGISTER
REINF	REINFORCE
REQ'D	REQUIRED
RWL	RAIN WATER LEADER
S	SOUTH
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
S.E.D.	SEE ELECTRICAL DRAWINGS
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STD	STANDARD
STL	STEEL
STRL	STRUCTURAL
SURF.	SURFACE
SUSP	SUSPENDED
SYM	SYMMETRICAL
T.B.D.	TO BE DETERMINED
T&B	TOP & BOTTOM
TC	TOP OF CURB OR CONCRETE
THR	THRESHOLD
THRU	THROUGH
TOW	TOP OF WALL
TOS	TOP OF CONCRETE SLAB FLOOR
T	TEMPERED GLASS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W	WEST
W/	WITH
WG	WIRE GLASS
WH	WATER HEATER
WI	WROUGHT IRON
W/O	WITHOUT
WP	WEATHERPROOF OR WATERPROOF
WWM	WELDED WIRE MESH
YD	YARD

FINISH SCHEDULE AND NOTES

INTERIOR COLOR/FINISH/PRODUCT SCHEDULE

PRODUCT/MATERIAL	MANUFACTURER	STYLE/TYPE	COLOR	NOTES
ACOUSTICAL PANEL	WALL TECHNOLOGY	A100 SERIES WITH BEVELED EDGE	SEE PANEL FABRIC	Z–CLIP INSTALLATION METHOD
ACOUSTICAL PANEL FABRIC FINISH	MAHARAM	MORSE–901720	004 CLIFF	...
ACOUSTICAL CEILING TILE	ARMSTRONG	CIRRUS 589 – BEVELED TEGULAR	WHITE (FF)	CIRRUS TILE & LAY–IN
ACOUSTICAL CEILING TILE GRID SYSTEM	ARMSTRONG	SUPRAFINE 9/16" EXPOSED TEE	WHITE (FF)	SEE DETAIL 1 TO 4 ON SHEET A–571
CARPET TILES	BENTLEY PRINCE STREET, INC.	TALL STORY–4TZ240220T / TILE	JUST WALKED IN–400405	24"x24" TILE, QUARTER–TURN GLUE DOWN INSTALLATION
WALK OFF MATS	MATS, INC.	3/8" THICK SOFT GRID – 48" WIDTH	GRAY (FF)	LOOSE LAY AND CUT TO FIT PERIMETER SHAPE
DOOR THRESHOLD TO MAT TRANSITION	MATS, INC.	ALCRS BK, PVC RAMP	BLACK (FF)	GLUE DOWN INSTALLATION METHOD
CARPET TO MAT TRANSITION	JOHNSONITE, INC.	CCA–XX ADAPTOR	BLACK (FF)	GLUE DOWN WITH MITERED CORNERS
(E) PAINTED WALLS (MATCH COLOR)	PITTSBURG PAINT (OR MATCH COLOR)	INTERIOR SATIN OR EGGSHELL	516–2 ANTIQUE WHITE	TOUCH–UP EXIST. WALL COLOR AS REQUIRED
(E) WALL WOOD BASE TRIM PAINT	KELLY–MOORE (OR MATCH COLOR)	INTERIOR SEMI–GLOSS	KM3933–GRANITE CLIFF	PREP. EXISTING BASE FOR NEW PAINT COLOR
PROJECTION SCREEN – OFCI	DRAPER	PREMIER MOTORIZED FRONT PROJECTION	HI DEF GREY	WALL MOUNT (101375LP OR EQUAL) SEE DET. 10/A–571
VIDEO PROJECTOR – OFCI	BY AVC AND UNIVERSITY	POWERED ZOOM AND FOCUS, DLP	BY MANUFACTURER	PROJECTION SIZE TO 300" DIAGONAL MINIMUM.
SPEAKER SYSTEM FOR VIDEO – OFCI	BY AVC AND UNIVERSITY	BY AVC AND UNIVERSITY	BY MANUFACTURER	MAY BE WALL OR CEILING MOUNT SYSTEM
PROJECTOR CEILING MOUNT – OFCI	CHIEF CHIEF CHIEF	CMA455 – 2'x2' CEILING TILE PLATE CMS SPEED–CONNECT FIXED EXTENSION PROJECTOR STEEL SECURITY CAGE	WHITE (FF) BLACK (FF) BLACK (FF)	CEILING MOUNT IN WITH ACOUSTICAL CEILING SYSTEM 1–1/2" NPT COLUMN – LENGTH TO CLEAR LIGHTS PG3A–EXTRA LARGE OR PG1A LARGE. SEE DETAIL 9 ON SHEET A–571.

GENERAL NOTES:

ALL MANUFACTURES PRODUCTS NOTED IN FINISH SCHEDULE ARE FOR REFERENCE ONLY. COLOR, STYLE, PATTERNS AND PRODUCT QUALITY WITH EQUAL OR SIMILAR PRODUCTS SHALL MATCH FINISH SCHEDULE AND SHALL BE APPROVED BY UNIVERSITY REPRESENTATIVE.

COMPONENTS LISTED AS OFCI SHALL BE DESIGN/BUILD SUPPLIED BY THE UNIVERSITY AND INSTALLED BY THE CONTRACTOR. INSTALLATION SHALL INCLUDE ALL ELECTRICAL, DATA, CABLE, HARDWARE, MOUNTING, CONDUIT, BRACING, ETC. FOR A COMPLETE INSTALLATION OF EACH COMPONENT READY FOR USE.

INTERIOR FINISH NOTES

A. FOR ADDITIONAL NOTES AND INFORMATION SEE FLOOR PLANS, REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS.

B. SEE SPECIFICATIONS OR MANUFACTURER'S LITERATURE FOR MATERIALS LISTED.

C. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN 2010 C.B.C. TABLE 803.9

D. ALL METALS EXPOSED TO VIEW SHALL BE FACTORY FINISHED OR FIELD PAINTED,

E. ALL PAINT FINISHES SHALL BE SATIN OR EGGSHELL, VERIFY WITH OWNER.

F. FOR ANY CONDITION THAT IS NOT IDENTIFIED, PROVIDE MATERIAL OR FINISH THAT CLOSELY MATCHES SIMILAR CONDITIONS IN OTHER AREAS OF ROOM OR BUILDING.

G. SEE SHEET A–271 FOR NEW ROOM DESIGN AND SEE SHEET A–171 FOR EXISTING ROOM CONDITIONS. ANY EXISTING EXPOSED FINISH THAT IS TO REMAIN SHALL BE CLEANED, PATCHED, REPAIRED OR REFINISHED TO LIKE–NEW CONDITION.

SCOPE OF WORK

THIS CLASSROOM PROJECT CONSIST OF:

1. WORK ON THE CLASSROOM OFFICE BUILDING (COB) FIRST FLOOR LEVEL CLASSROOMS 110 AND 114.

2. REMOVAL OF WALL MOUNTED FIXTURES, FURNISHING, AND EQUIPMENT AS REQUIRED ON THE NORTH AND SOUTH WALLS OF CLASSROOMS 110 AND 114.

3. INSTALLATION OF NEW CARPET WITH TRANSITION MOULDING.

4. REMOVE, REPAIR AND RE–INSTALL EXTERIOR DOOR SILLS TO ELIMINATE LEAKS FROM RAIN.

5. PATCH, PRIME, AND PAINT EXISTING GYPSUM WALL FINISH TO LIKE NEW CONDITION. PAINT (E) WOOD WALL BASE, COLOR – SEE FINISH SCHEDULE.

6. INSTALL ACOUSTICAL PANELS ON WALLS AND RE–INSTALL ANY FIXTURES, FURNISHINGS, AND EQUIPMENT REMOVED FOR WORK TO LIKE NEW CONDITION.

7. INSTALLATION OF NEW CEILING PENDANT MOUNTED VIDEO PROJECTOR AND WALL MOUNTED RETRACTABLE SCREEN IN CLASSROOM 114.

8. ADD SEISMIC RESTRAINT SYSTEM TO (E) VIDEO PROJECTOR PENDANT MOUNT IN CLASSROOM 110. SYSTEM SHALL BE DESIGN/BUILD AS RECOMMENDED BY PENDANT MOUNT MANUFACTURER AND SHALL BE ABOVE NEW ACOUSTICAL CEILING FINISH. SYSTEM SHALL BE INDEPENDENT FROM NEW CEILING.

9. INSTALL FIRE SPRINKLER EXTENSION FROM EXISTING SYSTEM TO EXTEND SPRINKLER HEADS BELOW NEW LAY–IN CEILING TILE GRID SYSTEM TO MEET FIRE DEPARTMENT REQUIREMENTS. THIS SHALL BE A DESIGN/BUILD SYSTEM MEETING APPLICABLE NFPA CODES AND CAMPUS FIRE MARSHAL REQUIREMENTS. THERE ARE NO DRAWINGS OR SPECIFICATIONS RELATED TO THIS WORK AS PART OF THIS PACKAGE.

10. REPOSITION EXISTING WALL MOUNTED ILLUMINATED "EXIT" SIGNS AT EACH DOOR TO CEILING MOUNTED SYSTEM IN NEW ACOUSTICAL LAY–IN CEILING SYSTEM. THIS SHALL BE DESIGN/BUILD WORK MEETING UNIVERSITY AND BUILDING CODE REQUIREMENTS. THERE ARE NO DRAWINGS OR SPECIFICATIONS RELATED TO THIS WORK AS PART OF THIS PACKAGE.

11. INSTALL NEW 2'x2' LAY–IN ACOUSTICAL CEILING SYSTEM.

12. PROVIDE RECTANGLE TO ROUND TRANSITION AT EACH (E) HVAC SUPPLY VENT REGISTER OPENING. EXTEND 10" ROUND BLACK FLEX DUCT FROM TRANSITION TO CEILING DIFFUSER. THIS SHALL BE DESIGN/BUILD WORK. SEE SCHEMATIC LAYOUT ON SHEET A–271. ALL HVAC DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE, THIRD EDITION, 2005"

13. REPLACE ANY BURNED OUT LIGHT BULBS, REPAIR, AND CLEAN EXISTING PENDANT LIGHT FIXTURES TO LIKE–NEW CONDITION. ADD SEISMIC RESTRAINT SYSTEM TO PENDANT LIGHT FIXTURES. THIS SHALL BE A DESIGN/BUILD SYSTEM MEETING UNIVERSITY REQUIREMENTS. THERE ARE NO DRAWINGS OR SPECIFICATIONS RELATED TO THIS WORK AS PART OF THIS PACKAGE.

14. PROVIDE WALK–OFF FLOOR MAT AT EACH ENTRY DOOR.

15. GLASS BREAK DETECTION WORK BY OTHERS.

16. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2011 NATIONAL ELECTRIC CODE (NEC).

17. ALL PLUMBING WORK SHALL CONFORM TO THE 2010 CALIFORNIA PLUMBING CODE.

DEFERRED APPROVAL

~~* SECURITY ALARM SYSTEMS~~

* FIRE PROTECTION SYSTEM MODIFICATION DESIGN AND SHOP DRAWINGS

* WALL MOUNTED ACOUSTICAL PANEL SHOP DRAWINGS

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 REVIEW BY THE BUILDING OFFICIAL.

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 BUILDING OFFICIAL WITH A NOTATION INDICATING 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.

UCMERCED
UNIVERSITY OF CALIFORNIA, MERCED

CLASSROOM AND OFFICE BUILDING ROOMS 110 AND 114 RENOVATIONS

SHEET INDEX

DRAWING ORDER	DRAWING NUMBER	DRAWING TITLE
1	A071	COVER SHEET, SYMBOLS, NOTES, AND SCHEDULES
2	A171	EXISTING FLOOR PLANS AND REFLECTED CEILING PLANS
3	A172	EXISTING INTERIOR ELEVATIONS
4	A271	NEW FLOOR PLANS AND REFLECTED CEILING PLANS
5	A272	NEW INTERIOR ELEVATIONS
6	A272a	NEW INTERIOR ELEVATIONS (BID ALTERNATE)
7	A571	CLASSROOM REMODEL DETAILS

SYMBOLS

ROOM NAME 110	ROOM NAME WITH ROOM NUMBER
2	KEY NOTE 2
⊕	CONTROL POINT
1	BUILDING GRID LINE REFERENCE 1
N / W 4 E / S	INTERIOR ELEVATION – NUMBER & SHEET ID ON SHEET
1 / A571 A271	DETAIL 1 ON SHEET A571 NOTED ON SHEET A271
1	ADDENDUM 1
73.5	EXISTING GRADE 73.5 FEET
73.5	FINISH GRADE 73.5 FEET
— · —	CENTERLINE
— - - —	PROPERTY LINE

CAMPUS MAP AND KEY PLAN

BUILDING KEY PLAN

CAMPUS MAP NO SCALE.

UC Merced

University of California
Merced, California

Project Name:
Classroom and Office Building Rooms 110 & 114 Renovations

Project Number:
907015

Civil Engineer:
Stantec

Stantec Consulting Services Inc.
1016 12th Street
Modesto, CA 95354
(209) 521–8986
(209) 521–9045 fax
www.stantec.com

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MECHANICAL ENGINEER / ELECTRICAL ENGINEER
370 N Wiget Lane, Suite 210
Walnut Creek, CA 94598
(925) 941–1400

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Date:__________
UCM Project No.: 906050

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FILE NO. 01-UC MERCED
APPL. NO.
AC____FLS____SS____
DATE:

No.	Description	Issue Date
2	ADDENDUM #2	08.07.12

Drawn By:	MH, BV, BW
Revision Date:	06.26.2012
Plot Date:	06.26.2012
Scale:	AS NOTED

Key Plan

ADDENDUM 2

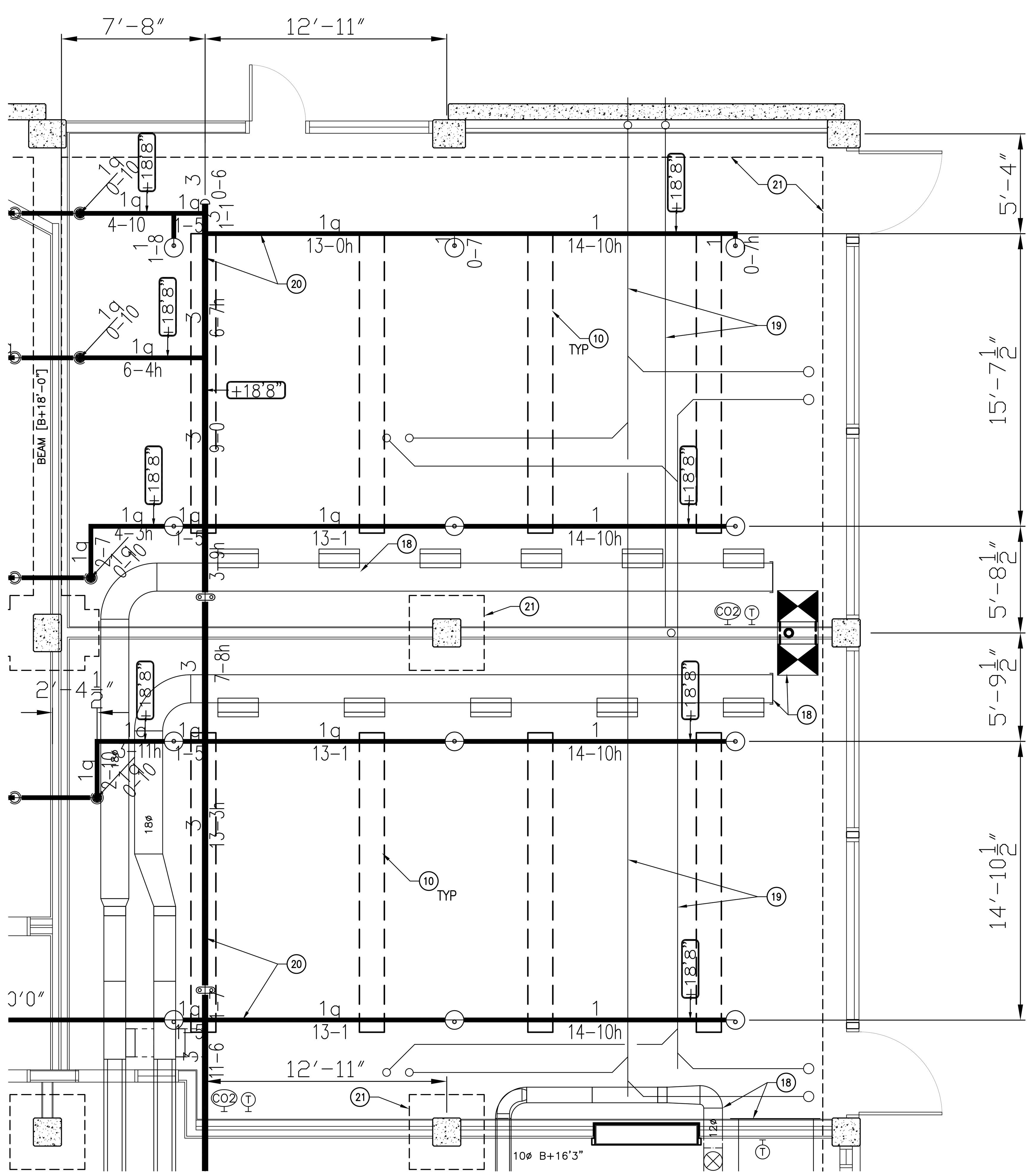
811 Know what's below. Call before you dig.

Drawing Title:
COVER SHEET SYMBOLS NOTES AND SCHEDULE

Sheet Number:
A-071

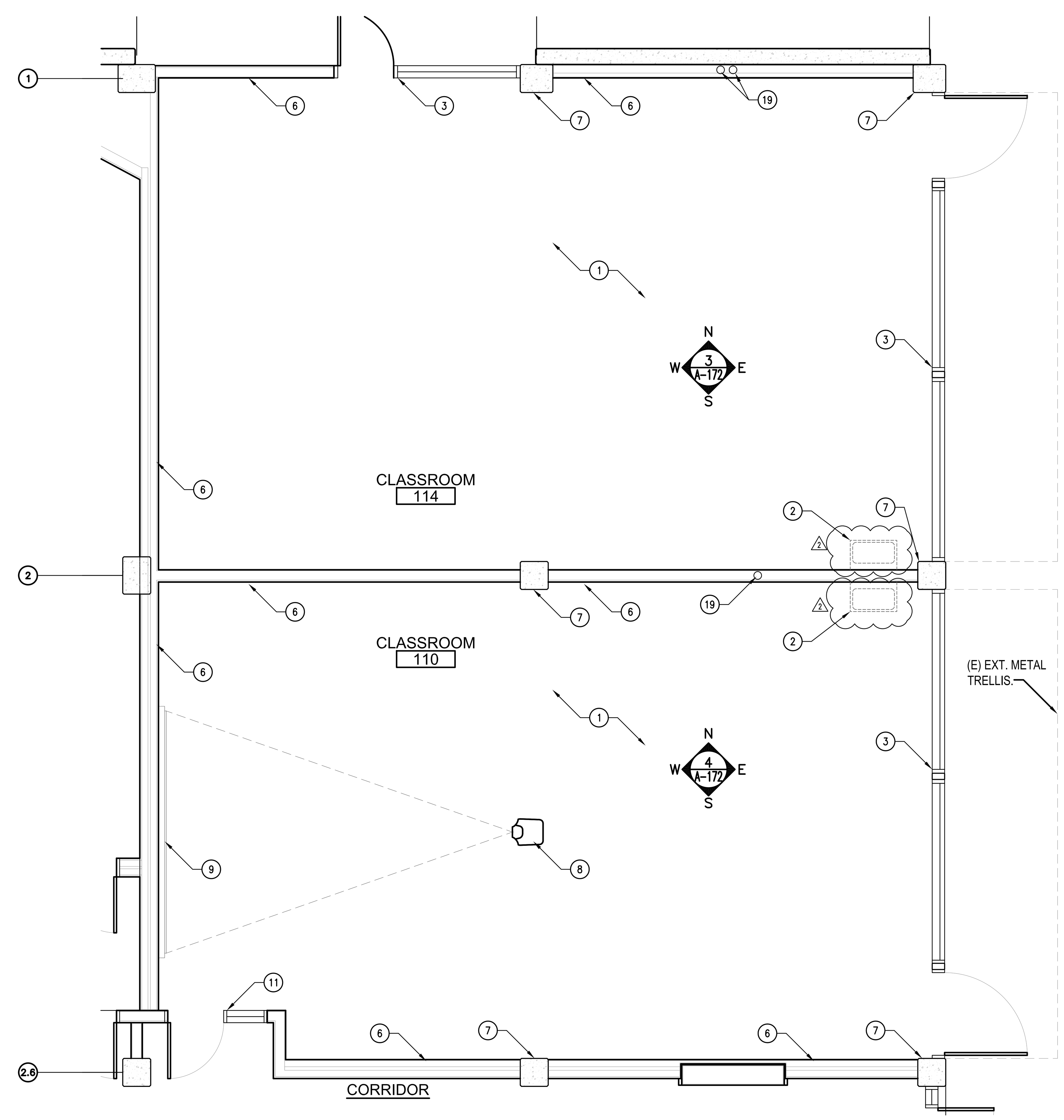
V:\2010\active\2010104600\dwg\ip\COB 110 & 114\arch\A-071.dwg)
2012-8-15 17:31 By: cbarkman

ORIGINAL SHEET – ARCH E1



REFLECTED CEILING PLANS - EXISTING (2)

SCALE 1/4"=1-0" (EXISTING EXPOSED EQUIPMENT IDENTIFIED)



FLOOR PLANS - EXISTING (1)

SCALE 1/4"=1-0"

NOTES

1	(E) WALL SWITCHES AND RECEPTACLE OUTLETS ARE NOT SHOWN ON THIS SHEET. REPLACE BROKEN COVER PLATES AND REPAIR EQUIPMENT TO PROPER OPERATION.
2	(E) DOORS SHALL BE SERVICED TO FUNCTION PROPERLY. REPAIR OR REPLACE ANY DAMAGED GASKETING ON EXTERIOR DOORS.
3	(E) CEILING PENDANT MOUNTED LIGHT FIXTURES AND WALL MOUNTED LIGHT FIXTURES SHALL BE CLEANED AND SERVICED TO PROVIDE PROPER OPERATION.
4	(E) CEILING SUSPENDED CABLE TRAY IS NOT INDICATED ON REFLECTED CEILING PLAN. BOTTOM OF TRAY IS FIELD MEASURED AT 14'-7" ABOVE TOS.

KEYNOTES (EXISTING CONDITIONS)

#	
1	SEALED CONCRETE FINISH FLOOR
2	REMOVE EXISTING WALL MOUNTED SINKS. CAP WATER AND WASTE LINES INSIDE WALL. DELIVER SINKS TO THE UNIVERSITY.
3	STOREFRONT WINDOW SYSTEM
4	STOREFRONT GLASS LITE
5	STOREFRONT METAL PANEL LITE
6	GYSPUM WALL FINISH OVER METAL STUD FRAMING
7	EXPOSED CONCRETE STRUCTURAL WALL/COLUMN
8	CEILING PENDANT MOUNTED VIDEO PROJECTOR
9	WALL MOUNTED ROLL DOWN PROJECTION SCREEN
10	CEILING PENDANT MOUNTED LIGHT FIXTURE
11	WOOD DOOR IN METAL FRAME WITH GLASS SIDELIGHT
12	WALL MOUNTED TOWEL DISPENSER (SEE A-172)
13	WALL MOUNTED ACOUSTICAL PANEL (SEE A-172)
14	WALL MOUNTED DRY ERASE MARKER BOARD (SEE A-172)
15	WALL MOUNTED LIGHT FIXTURE (SEE A-172)
16	WALL MOUNTED AUDIBLE/VISUAL FIRE ALARM NOTIFICATION (SEE A-172)
17	WALL MOUNTED WOOD WALL BASE (SEE A-172)
18	MECHANICAL SYSTEM COMPONENT/DUCT WORK
19	ROOF RAIN WATER DRAIN LINE
20	FIRE SPRINKLER SYSTEM DESIGN WITH DIMENSIONS
21	STRUCTURAL CONCRETE SOFFIT

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2	ADDENDUM #2	08.07.12

Drawn By:	MH, BV, BW
Revision Date:	06.26.2012
Plot Date:	06.26.2012
Scale:	AS NOTED

Key Plan

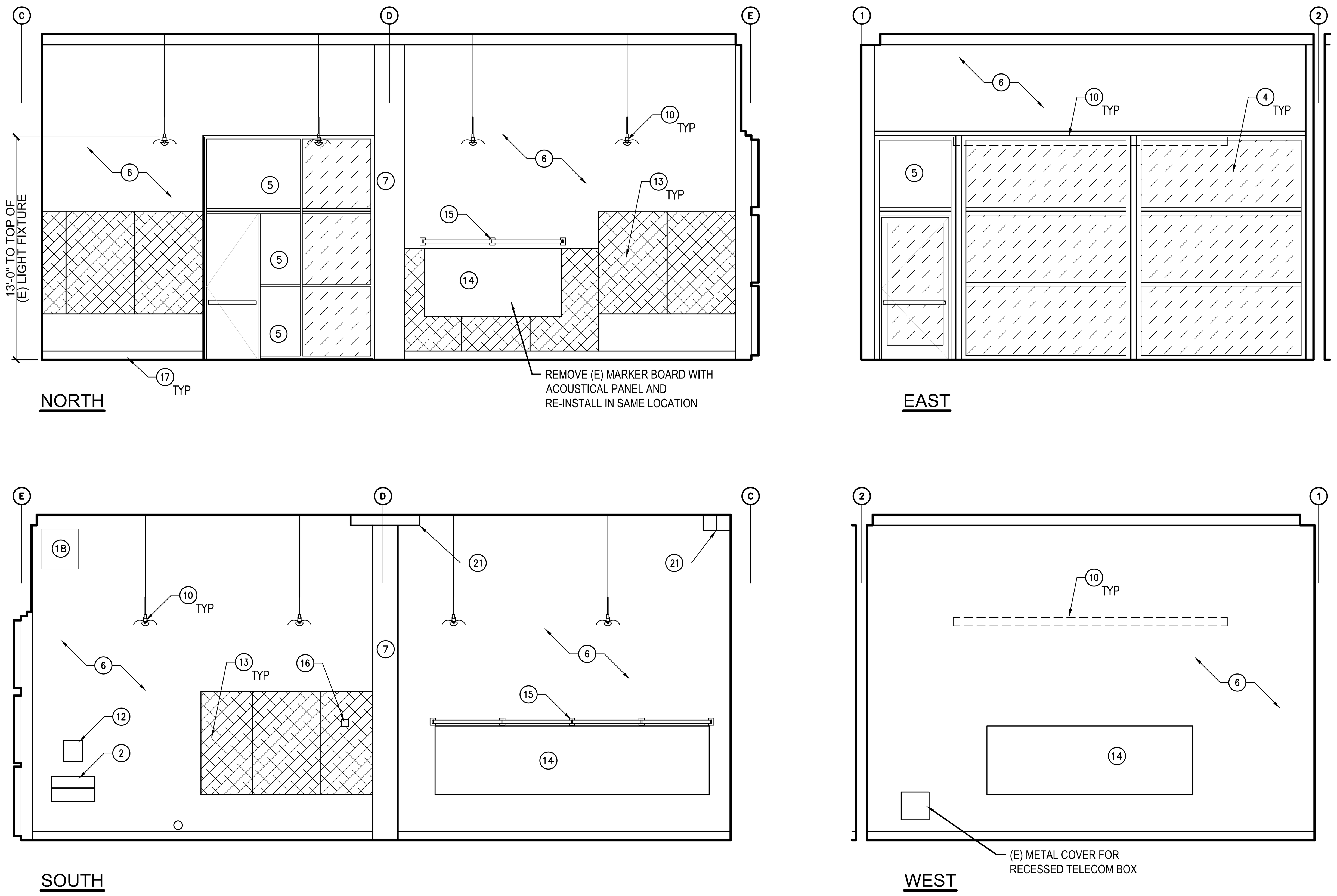
811 Know what's below. Call before you dig.

Drawing Title:
EXISTING FLOOR PLANS & REFLECTED CEILING PLANS

Sheet Number:
A-171

V:\others\1843333407\arch\dwg\A-171.dwg)
2012-8-08 15:03 By: jufernandez

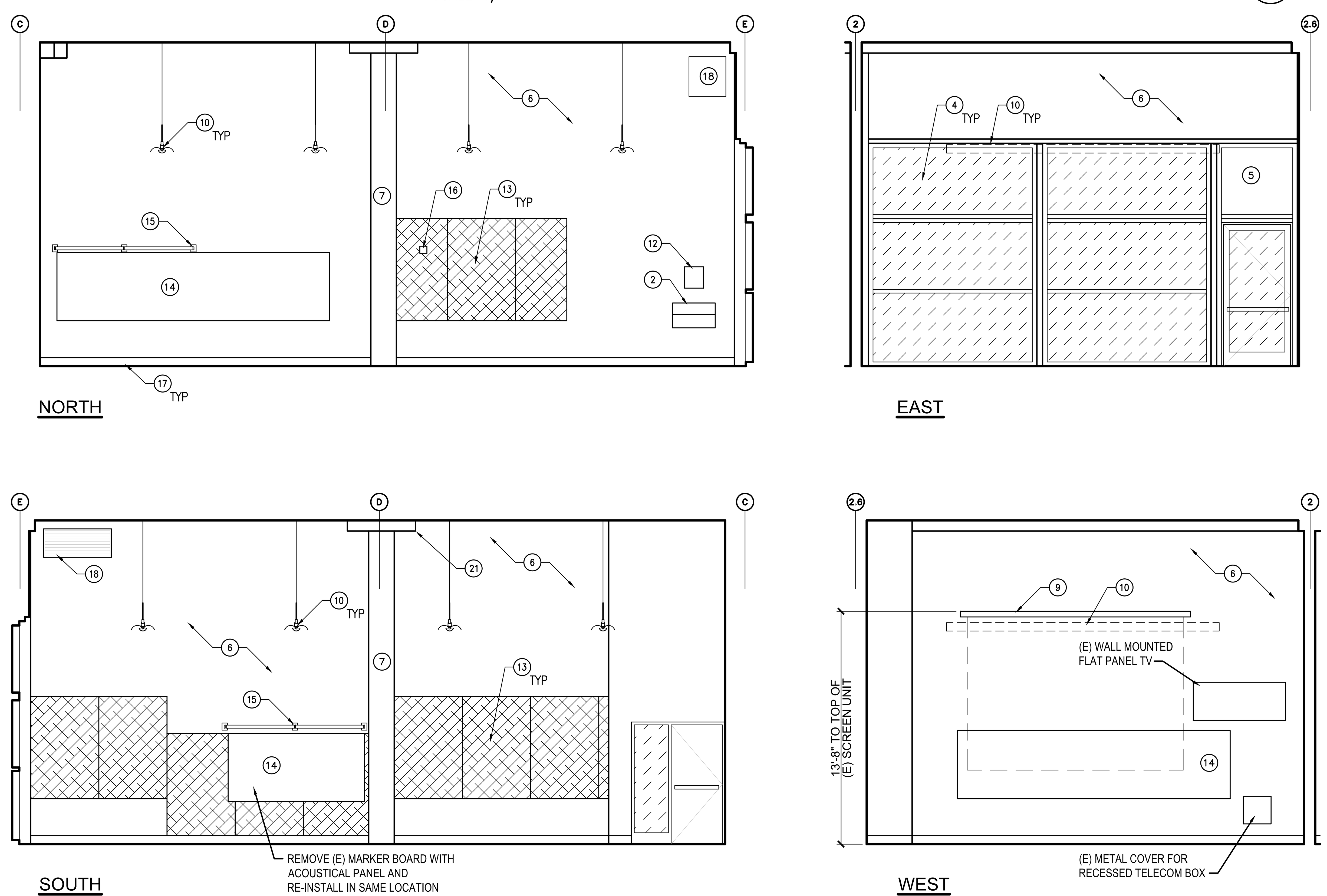
ORIGINAL SHEET - ARCH E1



INTERIOR ELEVATIONS - CLASSROOM 114

SCALE 1/4"=1-0"

3



INTERIOR ELEVATIONS - CLASSROOM 110

SCALE 1/4"=1-0"

4

NOTES	
1	(E) WALL SWITCHES AND RECEPTACLE OUTLETS ARE NOT SHOWN ON THIS SHEET. REPLACE BROKEN COVER PLATES AND REPAIR EQUIPMENT TO PROPER OPERATION.
2	(E) DOORS SHALL BE SERVICED TO FUNCTION PROPERLY. REPAIR OR REPLACE ANY DAMAGED GASKETING ON EXTERIOR DOORS.
3	(E) CEILING PENDANT MOUNTED LIGHT FIXTURES AND WALL MOUNTED LIGHT FIXTURES SHALL BE CLEANED AND SERVICED TO PROVIDE PROPER OPERATION.
4	(E) CEILING SUSPENDED CABLE TRAY IS NOT INDICATED ON REFLECTED CEILING PLAN. BOTTOM OF TRAY IS FIELD MEASURED AT 14'-7" ABOVE TOS.

#	KEYNOTES (EXISTING CONDITIONS)
1	SEALED CONCRETE FINISH FLOOR
2	REMOVE EXISTING WALL MOUNTED SINKS. CAP WATER AND WASTE LINES INSIDE WALL. DELIVER SINKS TO THE UNIVERSITY.
3	STOREFRONT WINDOW SYSTEM
4	STOREFRONT GLASS LITE
5	STOREFRONT METAL PANEL LITE
6	GYSPUM WALL FINISH OVER METAL STUD FRAMING
7	EXPOSED CONCRETE STRUCTURAL WALL/COLUMN
8	CEILING PENDANT MOUNTED VIDEO PROJECTOR
9	WALL MOUNTED ROLL DOWN PROJECTION SCREEN
10	CEILING PENDANT MOUNTED LIGHT FIXTURE
11	WOOD DOOR IN METAL FRAME WITH GLASS SIDELIGHT
12	WALL MOUNTED TOWEL DISPENSER
13	WALL MOUNTED ACOUSTICAL PANEL
14	WALL MOUNTED DRY ERASE MARKER BOARD
15	WALL MOUNTED LIGHT FIXTURE
16	WALL MOUNTED AUDIBLE/VISUAL FIRE ALARM NOTIFICATION
17	WALL MOUNTED WOOD WALL BASE
18	MECHANICAL SYSTEM COMPONENT
19	ROOF RAIN WATER DRAIN LINE
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No.	Description	Issue Date
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Drawn By: MH, BV, BW
Revision Date: 06.26.2012
Plot Date: 06.26.2012
Scale: AS NOTED

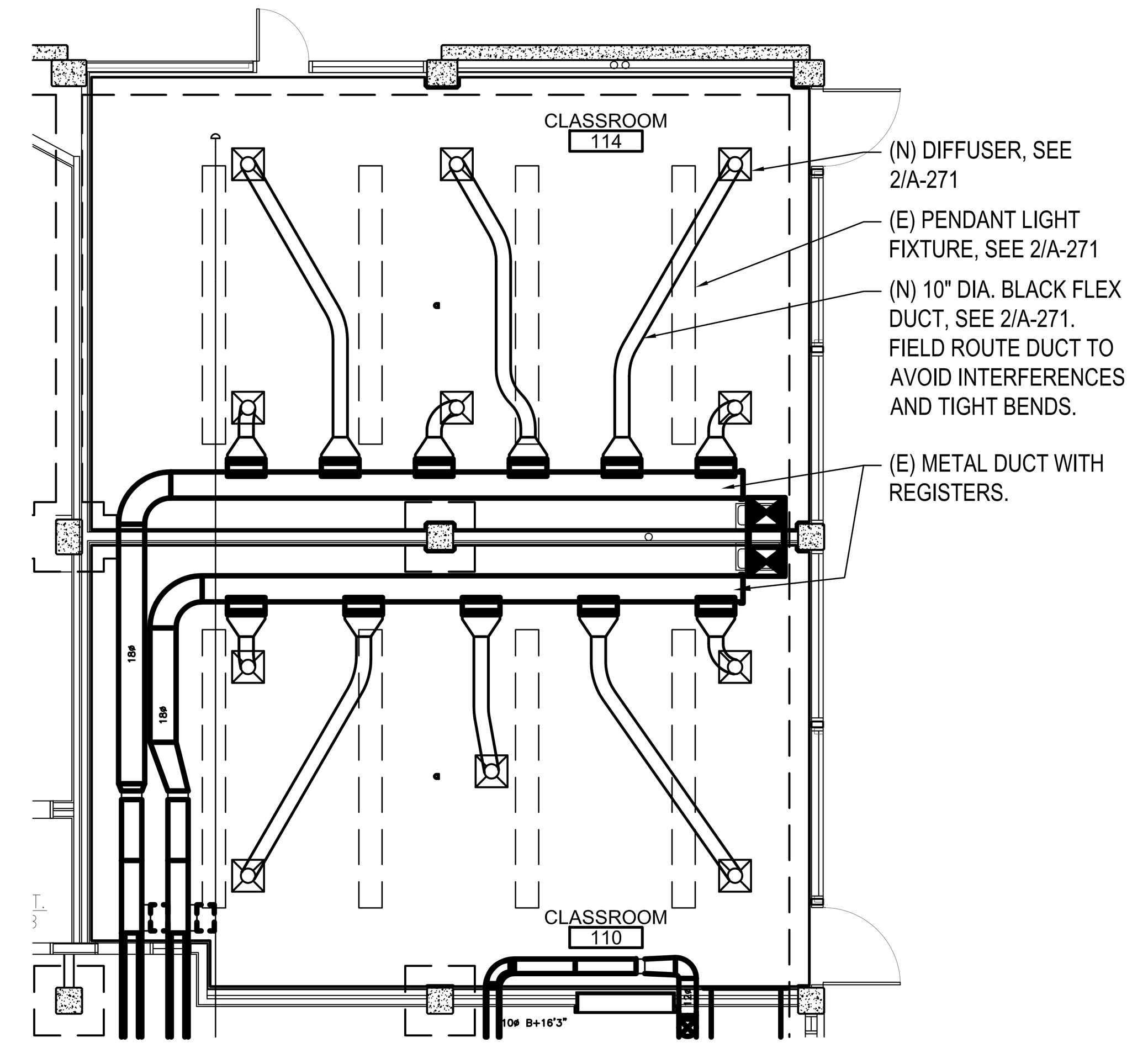
Key Plan

811
Know what's below. Call before you dig.

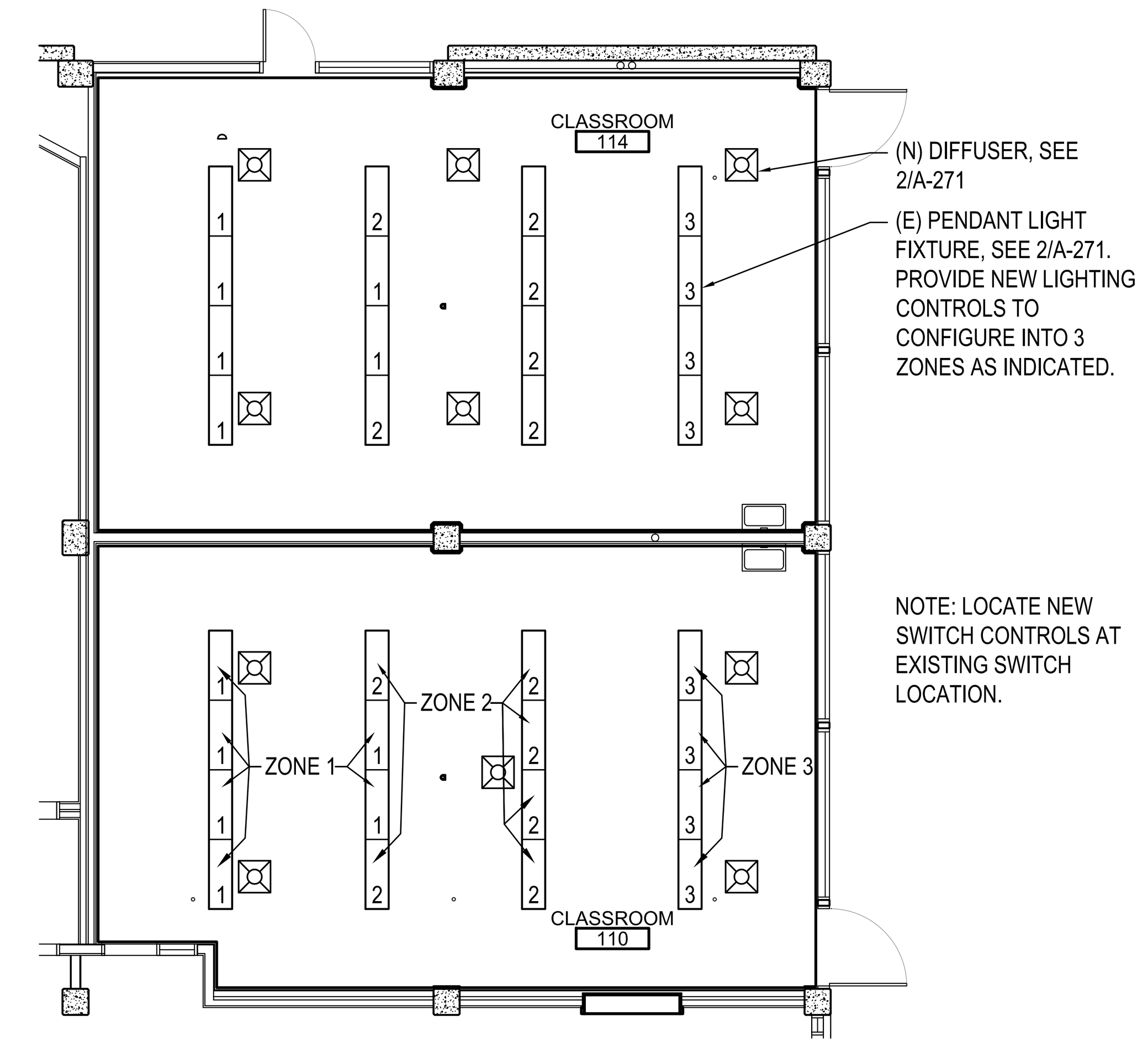
Drawing Title:
EXISTING INTERIOR ELEVATIONS

Sheet Number:
A-172

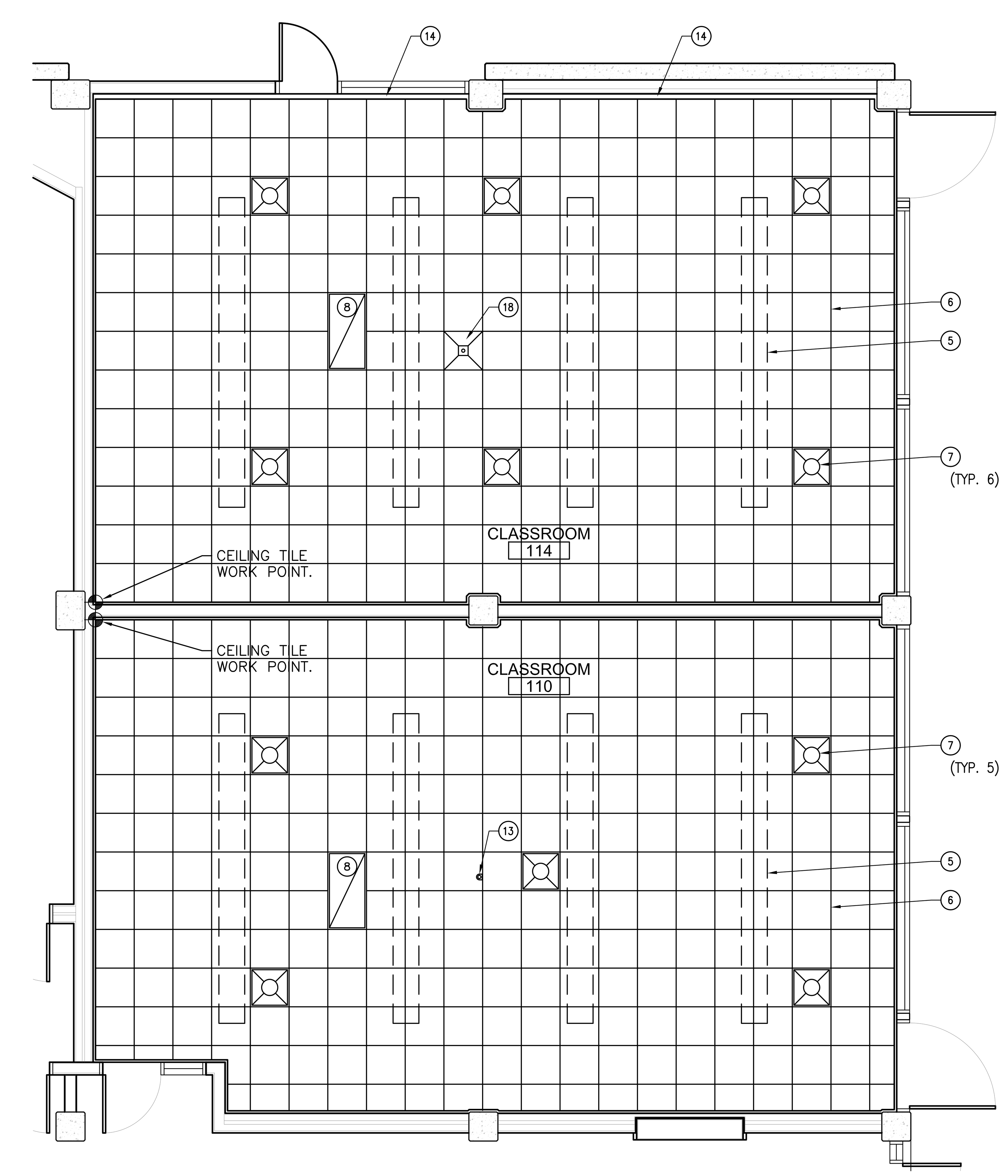
V:\others\1843333407\arch\dwg\A-171.dwg)
2012-8-08 15:03 By: jufernandez
ORIGINAL SHEET - ARCH E1



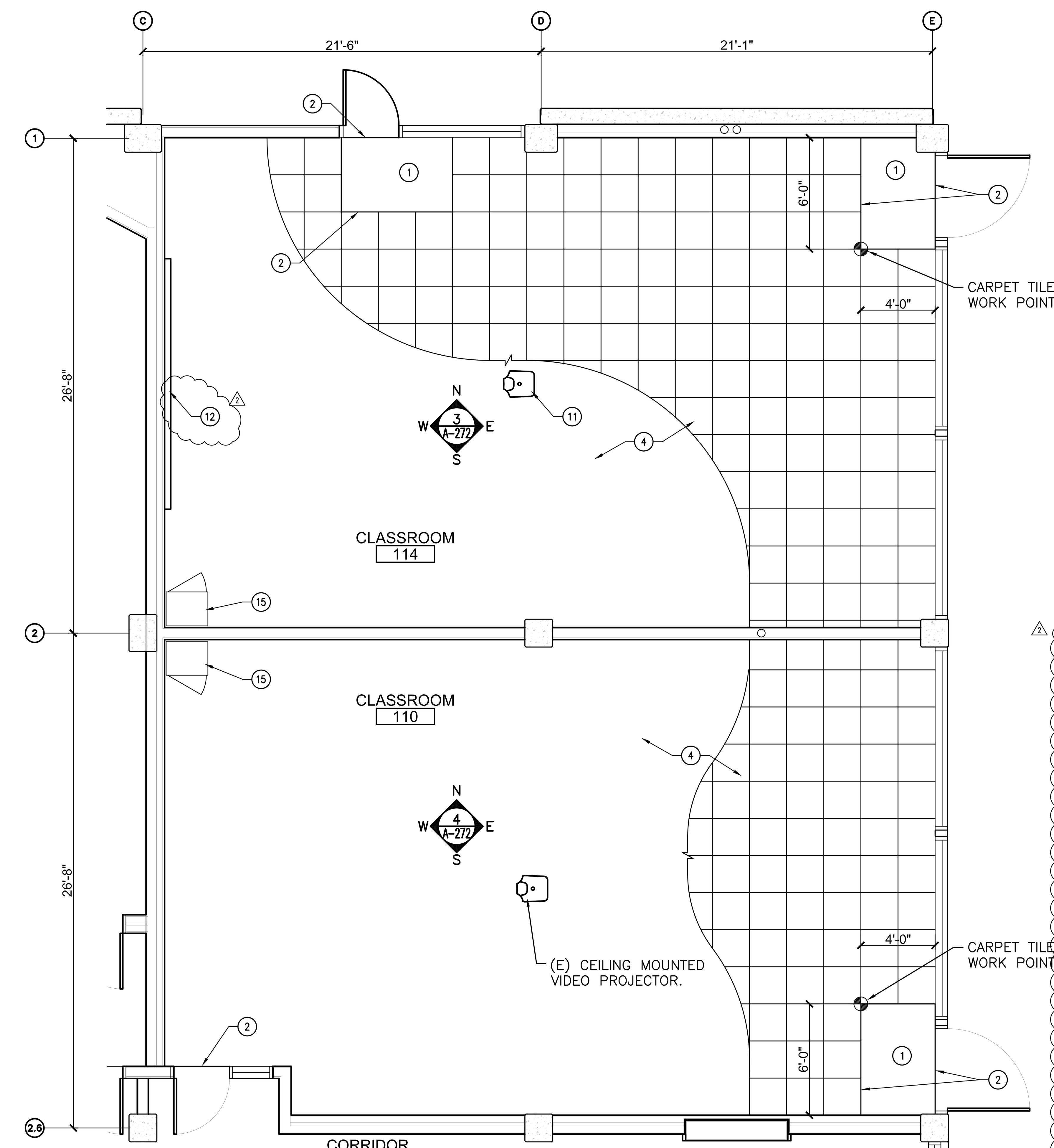
FLEXIBLE DUCT SCHEMATIC LAYOUT (2a)
SCALE 1/8"=1-0"



LIGHTING CONTROL SCHEMATIC LAYOUT (2b)
SCALE 1/8"=1-0"



REFLECTED CEILING PLANS - NEW (2)
SCALE 1/4"=1-0"



FLOOR PLANS - NEW (1)
SCALE 1/4"=1-0"

#	KEYNOTES
1	(N) 48" x 72" WALK-OFF MAT – SEE FINISH SCHEDULE
2	(N) FLOOR TRANSITION STRIP – SEE FINISH SCHEDULE AND SEE DETAILS.
3	NOT USED
4	(N) 2'x2' CARPET TILE FLOOR FINISH – SEE FINISH SCHEDULE.
5	(E) CEILING PENDANT LIGHT FIXTURES, TO REMAIN. PROVIDE GROMMET AT EACH CEILING TILE PENETRATION AND SEISMIC BRACING FOR (E) LIGHT SUPPORT CABLES. SEE NOTE 7 ON THIS SHEET.
6	(N) ACOUSTICAL CEILING SYSTEM, 24"x24" – SEE FINISH SCHEDULE AND SEE DETAILS 1 TO 4 ON SHEET A-571.
7	(N) CEILING SUPPLY DIFFUSER. MATCH TYPE USED IN OTHER AREAS OF BUILDING. FIELD VERIFY FINAL LOCATION TO AVOID CONFLICTS WITH OTHER SYSTEMS.
8	(N) 24"x48" CEILING RETURN GRILLE. MATCH TYPE USED IN OTHER AREAS OF BUILDING. FIELD VERIFY FINAL LOCATION TO AVOID CONFLICTS WITH OTHER SYSTEMS.
9	NOT USED
10	NOT USED
11	(N) VIDEO PROJECTOR SYSTEM IN CLASSROOM 114 BY OTHERS. SEE FINISH SCHEDULE ON SHEET A-071 AND SEE DETAIL 9 ON SHEET A-571.
12	(N) WALL MOUNTED PROJECTION SCREEN IN CLASSROOM 114 TO MATCH SCREEN IN CLASSROOM 110. SEE FINISH SCHEDULE AND SEE DETAIL 10/A-571.
13	PROVIDE OPENING AND GROMMET IN CEILING TILE FOR EXISTING PIPE SUPPORT USED FOR PENDANT MOUNTED PROJECTOR. PIPE SHALL NOT INTERFERE WITH EXPOSED TEE MAIN RUNNERS OR CROSS TEES.
14	PROVIDE MDF TRIM AND/OR EXTENDED FLANGE WALL MOLDING TO AVOID CEILING TILES LESS THAN 4" WIDE. FLUSH MDF WITH BOTTOM OF WALL MOLDING AND PAINT TO MATCH.
15	(N) LOCATION FOR IT/AV EQUIPMENT RACK (SIZE 22"Wx27"Dx74"H. CONSULT WITH UNIVERSITY REPRESENTATIVE FOR SPECIFIC REQUIREMENTS.
16	NOT USED
17	NOT USED
18	NEW METAL CEILING TILE PLATE FOR CEILING MOUNTED VIDEO PROJECTION SYSTEM BY AVC. FACTORY PAINT TO MATCH CEILING COLOR AND INSTALL PER MANUFACTURER SPECIFICATIONS, SEE DETAIL 9/A-571.

	NOTES
1	EXTEND EXISTING FIRE SPRINKLER SYSTEM TO PROVIDE HEADS BELOW THE ACOUSTICAL CEILING SYSTEM. DESIGN SHALL BE PROVIDED BY DESIGN/BUILD FIRE SPRINKLER SUBCONTRACTOR. SEE DETAIL 1/A-571.
2	PROVIDE RECTANGLE TO ROUND TRANSITION AT EACH (E) HVAC SUPPLY VENT REGISTER OPENING. EXTEND 10" ROUND BLACK FLEX DUCT FROM TRANSITION TO CEILING DIFFUSER SHOWN ON PLAN.
3	(E) ACOUSTICAL WALL PANELS IN CLASSROOMS SHALL BE REMOVED AND DISCARDED. AT THIS TIME THERE IS NO REQUIREMENT FOR THEM TO BE STORED ON SITE FOR USE ON FUTURE PROJECTS, SEE SHEET A-272.
4	(E) EXTERIOR DOOR SILLS (3 TOTAL) – REMOVE, REPAIR AND RE-INSTALL WITH CONTINUOUS BEADS OF SEALANT TO FORM WATERTIGHT CONDITION AT DOOR OPENING FROM SLAB, DOOR FRAME AND DOOR SILL. SEE DETAIL 6/A-571.
5	REPOSITION EXISTING WALL MOUNTED ILLUMINATED "EXIT" SIGNS AT EACH DOOR TO CEILING MOUNTED SYSTEM IN NEW ACOUSTICAL LAY-IN CEILING. ALIGN WITH ORIGINAL LOCATION AND MOUNT USING SIGN MANUFACTURER'S SYSTEM FOR THIS CEILING CONDITION.
6	EACH EXISTING WALL MOUNTED AUDIBLE/VISUAL FIRE ALARM NOTIFICATION SHALL REMAIN IN EXISTING LOCATION. REMOVE WITH REMOVAL OF EXISTING ACOUSTICAL PANEL AND RE-INSTALL WITH NEW PANEL USING SIMILAR ATTACHMENT METHOD. SEE SHEET A-272.
7	PENDANT HUNG LIGHT FIXTURES SHALL REMAIN SUPPORTED DIRECTLY FROM CEILING ABOVE. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT. ASTM E580-5.3.7. COORDINATE CEILING MAIN RUNNERS AND CROSS TEE LOCATION TO AVOID LIGHT FIXTURE SUPPORT CABLES. LIGHT SUPPORT CABLE PENETRATIONS OF CEILING TILES SHALL HAVE ADAPTER (MATCH CEILING COLOR) TO ALLOW FREE MOVEMENT IN ALL HORIZONTAL DIRECTIONS. PROVIDE SHOP DRAWINGS OF SYSTEM FOR REVIEW AND APPROVAL BY UNIVERSITY PROJECT MANAGER.

UC Merced
University of California
Merced, California

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1	ADDENDUM #2	08.07.12

Drawn By:	MH, BV, BW
Revision Date:	06.26.2012
Plot Date:	06.26.2012
Scale:	AS NOTED

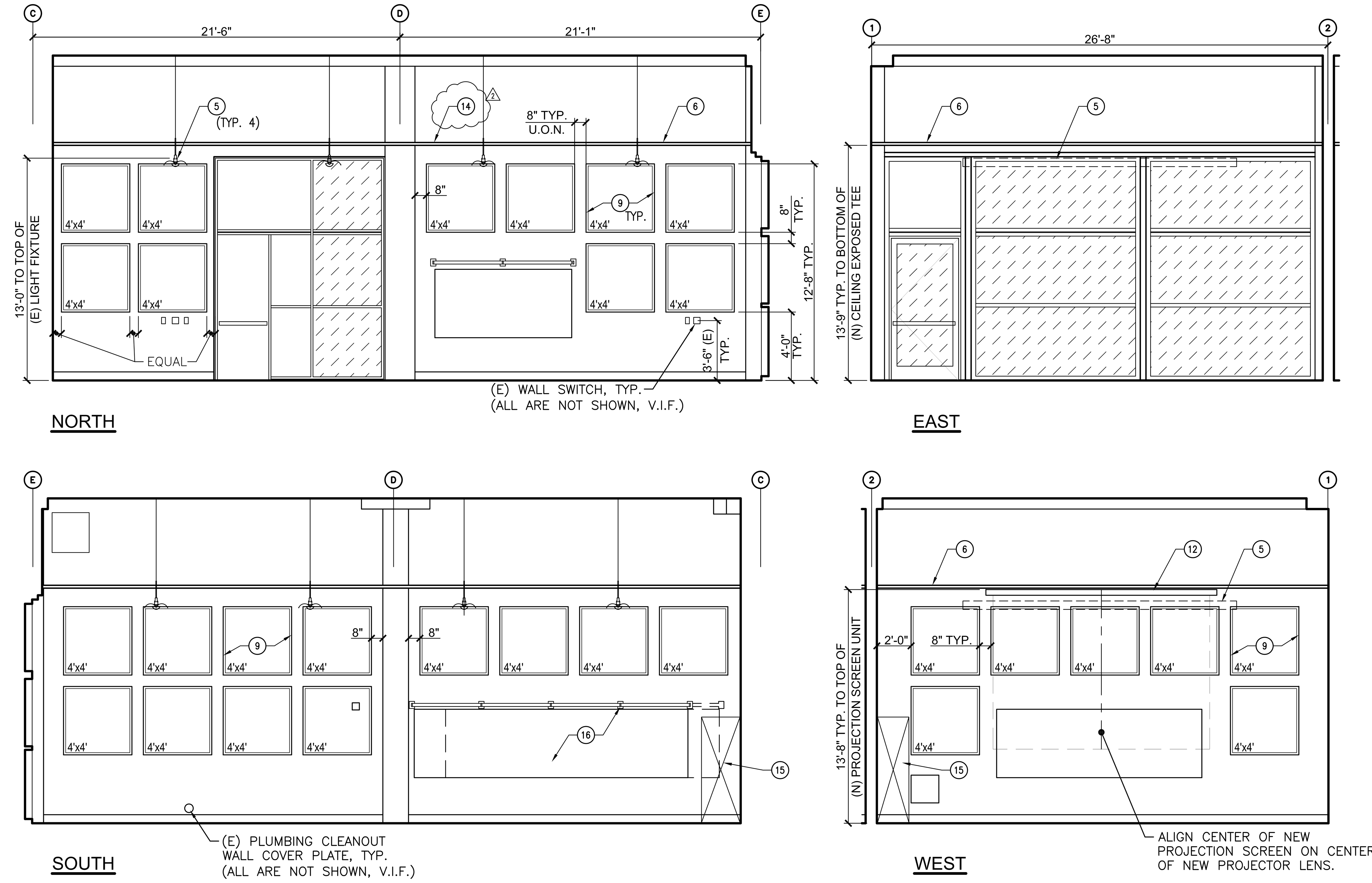
Key Plan

811 Know what's below. Call before you dig.

Drawing Title:
NEW FLOOR PLANS & REFLECTED CEILING PLANS

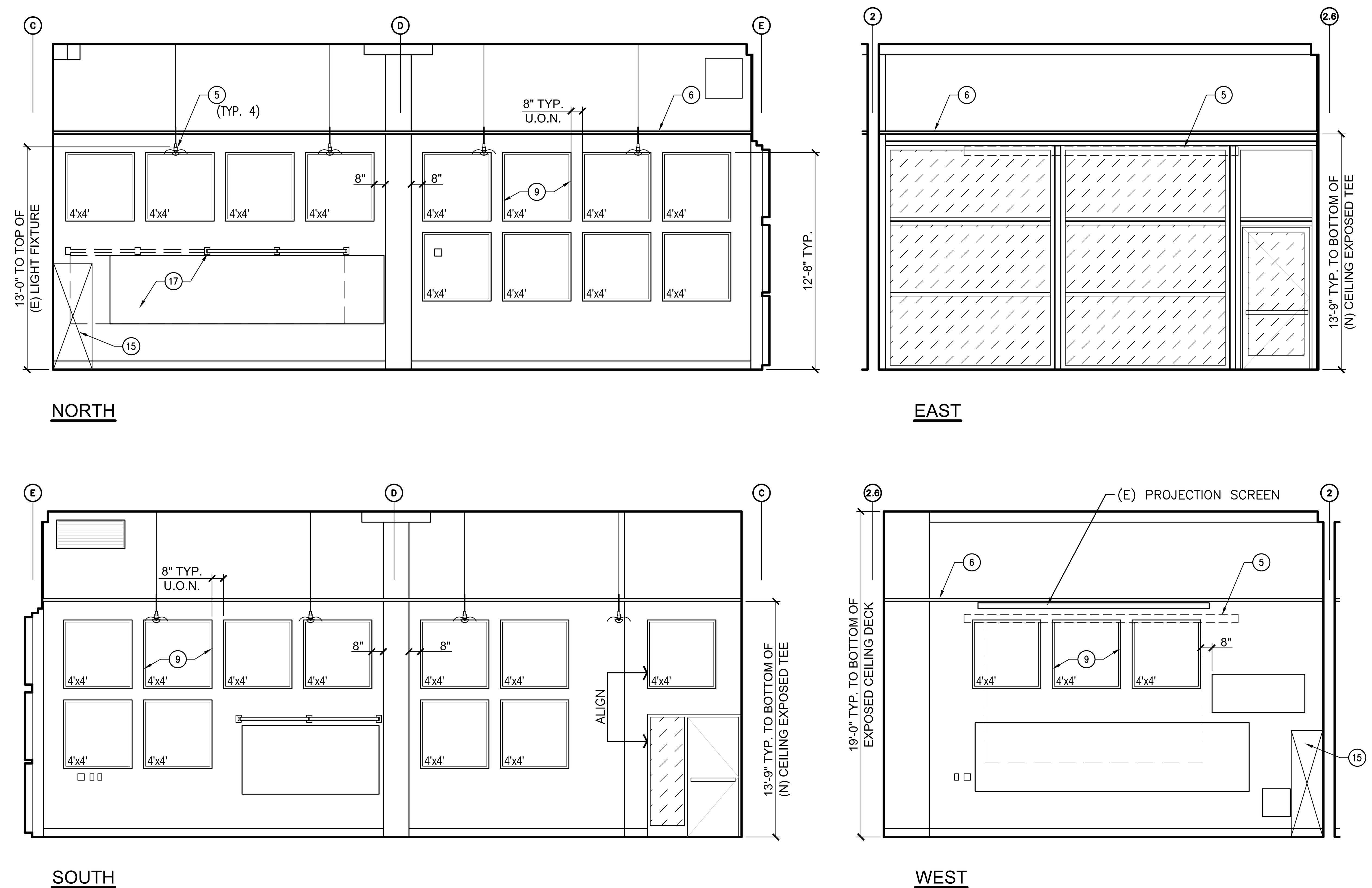
Sheet Number:
A-271

V:\others\1843333407\orch\dwg\A-271.dwg
2012-8-08 15:05 By: jufernandez
ORIGINAL SHEET – ARCH E1



INTERIOR ELEVATIONS - CLASSROOM 114

SCALE 1/4"=1-0" (3)



INTERIOR ELEVATIONS - CLASSROOM 110

SCALE 1/4"=1-0" (4)

	NOTES
1	EXTEND EXISTING FIRE SPRINKLER SYSTEM TO PROVIDE HEADS BELOW THE ACOUSTICAL CEILING SYSTEM. DESIGN SHALL BE PROVIDED BY DESIGN/BUILD FIRE SPRINKLER SUBCONTRACTOR. SEE DETAIL 1/A-571.
2	PROVIDE RECTANGLE TO ROUND TRANSITION AT EACH (E) HVAC SUPPLY VENT REGISTER OPENING. EXTEND 10" ROUND BLACK FLEX DUCT FROM TRANSITION TO CEILING DIFFUSER SHOWN ON PLAN.
3	(E) ACOUSTICAL WALL PANELS IN CLASSROOMS SHALL BE REMOVED AND DISCARDED. AT THIS TIME THERE IS NO REQUIREMENT FOR THEM TO BE STORED ON SITE FOR USE ON FUTURE PROJECTS, SEE SHEET A-272.
4	(E) EXTERIOR DOOR SILLS (3 TOTAL) – REMOVE, REPAIR AND RE-INSTALL WITH CONTINUOUS BEADS OF SEALANT TO FORM WATERTIGHT CONDITION AT DOOR OPENING FROM SLAB, DOOR FRAME AND DOOR SILL. SEE DETAIL 6/A-571.
5	REPOSITION EXISTING WALL MOUNTED ILLUMINATED "EXIT" SIGNS AT EACH DOOR TO CEILING MOUNTED SYSTEM IN NEW ACOUSTICAL LAY-IN CEILING. ALIGN WITH ORIGINAL LOCATION AND MOUNT USING SIGN MANUFACTURER'S SYSTEM FOR THIS CEILING CONDITION.
6	EACH EXISTING WALL MOUNTED AUDIBLE/VISUAL FIRE ALARM NOTIFICATION SHALL REMAIN IN EXISTING LOCATION. REMOVE WITH REMOVAL OF EXISTING ACOUSTICAL PANEL AND RE-INSTALL WITH NEW PANEL USING SIMILAR ATTACHMENT METHOD. SEE SHEET A-272.
7	PENDANT HUNG LIGHT FIXTURES SHALL REMAIN SUPPORTED DIRECTLY FROM CEILING ABOVE. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT. ASTM E580-5.3.7. COORDINATE CEILING MAIN RUNNERS AND CROSS TEE LOCATION TO AVOID LIGHT FIXTURE SUPPORT CABLES. LIGHT SUPPORT CABLE PENETRATIONS OF CEILING TILES SHALL HAVE ADAPTER (MATCH CEILING COLOR) TO ALLOW FREE MOVEMENT IN ALL HORIZONTAL DIRECTIONS. PROVIDE SHOP DRAWINGS OF SYSTEM FOR REVIEW AND APPROVAL BY UNIVERSITY PROJECT MANAGER.

#	KEYNOTES
1	NOT USED
2	NOT USED
3	NOT USED
4	NOT USED
5	(E) CEILING PENDANT LIGHT FIXTURES, TO REMAIN. PROVIDE GROMMET AT EACH CEILING TILE PENETRATION AND SEISMIC BRACING FOR (E) LIGHT SUPPORT CABLES. SEE NOTE 7 ON THIS SHEET.
6	(N) ACOUSTICAL CEILING SYSTEM, 24"x24" – SEE FINISH SCHEDULE AND SEE DETAILS 1 TO 4 ON SHEET A-571.
7	NOT USED
8	NOT USED
9	(N) 1" THICK ACOUSTICAL WALL PANEL. MOUNT TO WALL WITH MANUFACTURER STANDARD Z-CLIP SYSTEM. SIZES AS NOTED. – SEE FINISH SCHEDULE AND SEE 8/A-571.
10	NOT USED
11	NOT USED
12	(N) WALL MOUNTED PROJECTION SCREEN IN CLASSROOM 114 TO MATCH SCREEN IN CLASSROOM 110. SEE FINISH SCHEDULE AND SEE DETAIL 10/A-571.
13	NOT USED
14	PROVIDE MDF TRIM AND/OR EXTENDED FLANGE WALL MOLDING TO AVOID CEILING TILES LESS THAN 4" WIDE. FLUSH MDF WITH BOTTOM OF WALL MOLDING AND PAINT TO MATCH.
15	(N) LOCATION FOR IT/AV EQUIPMENT RACK (SIZE 22"Wx27"Dx74"H. CONSULT WITH UNIVERSITY REPRESENTATIVE FOR SPECIFIC REQUIREMENTS.
16	RELOCATE EXISTING MARKED BOARD AND LIGHT TO A POSITION ADJACENT TO CONCRETE PILASTER AT SAME ELEVATION. ADJUST WIRING AS REQUIRED. INSTALL USING SIMILAR METHOD OF ORIGINAL MOUNTING. PATCH AND REPAIR AS REQUIRED.
17	RELOCATE EXISTING MARKED BOARD TO A POSITION ADJACENT TO CONCRETE PILASTER AT SAME ELEVATION. MOVE LIGHT FIXTURE TO LOCATION USING EXISTING MOUNTING LOCATION, ADJUST WIRING AS REQUIRED. INSTALL USING SIMILAR METHOD OF ORIGINAL MOUNTING. PATCH AND REPAIR AS REQUIRED.
18	NEW METAL CEILING TILE PLATE FOR CEILING MOUNTED VIDEO PROJECTION SYSTEM BY AVC. FACTORY PAINT TO MATCH CEILING COLOR AND INSTALL PER MANUFACTURER SPECIFICATIONS, SEE DETAIL 9/A-571.

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Drawn By:	MH, BV, BW
Revision Date:	06.26.2012
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Scale:	AS NOTED

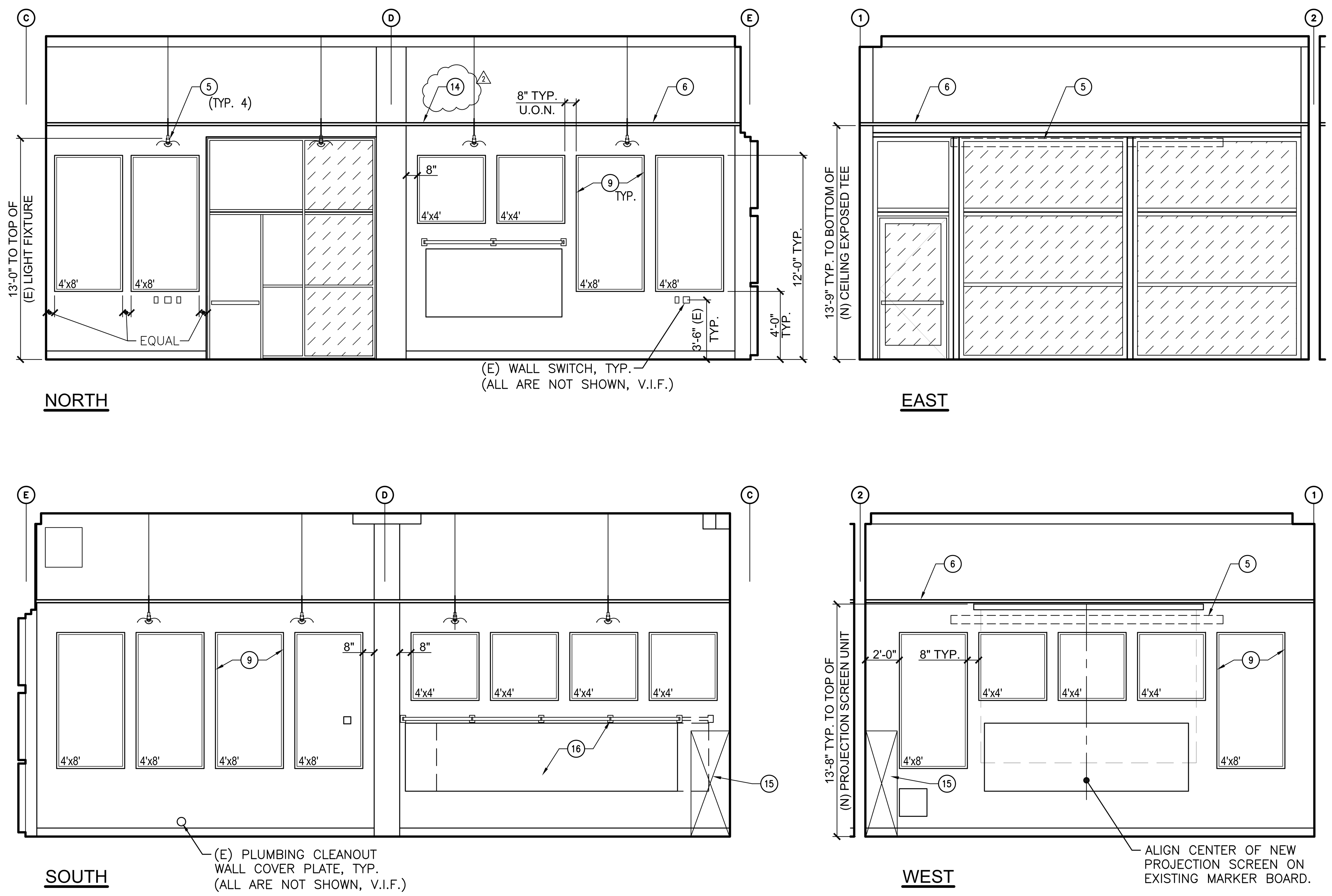
Key Plan

811 Know what's below. Call before you dig.

Drawing Title:
NEW INTERIOR ELEVATIONS

Sheet Number:
A-272

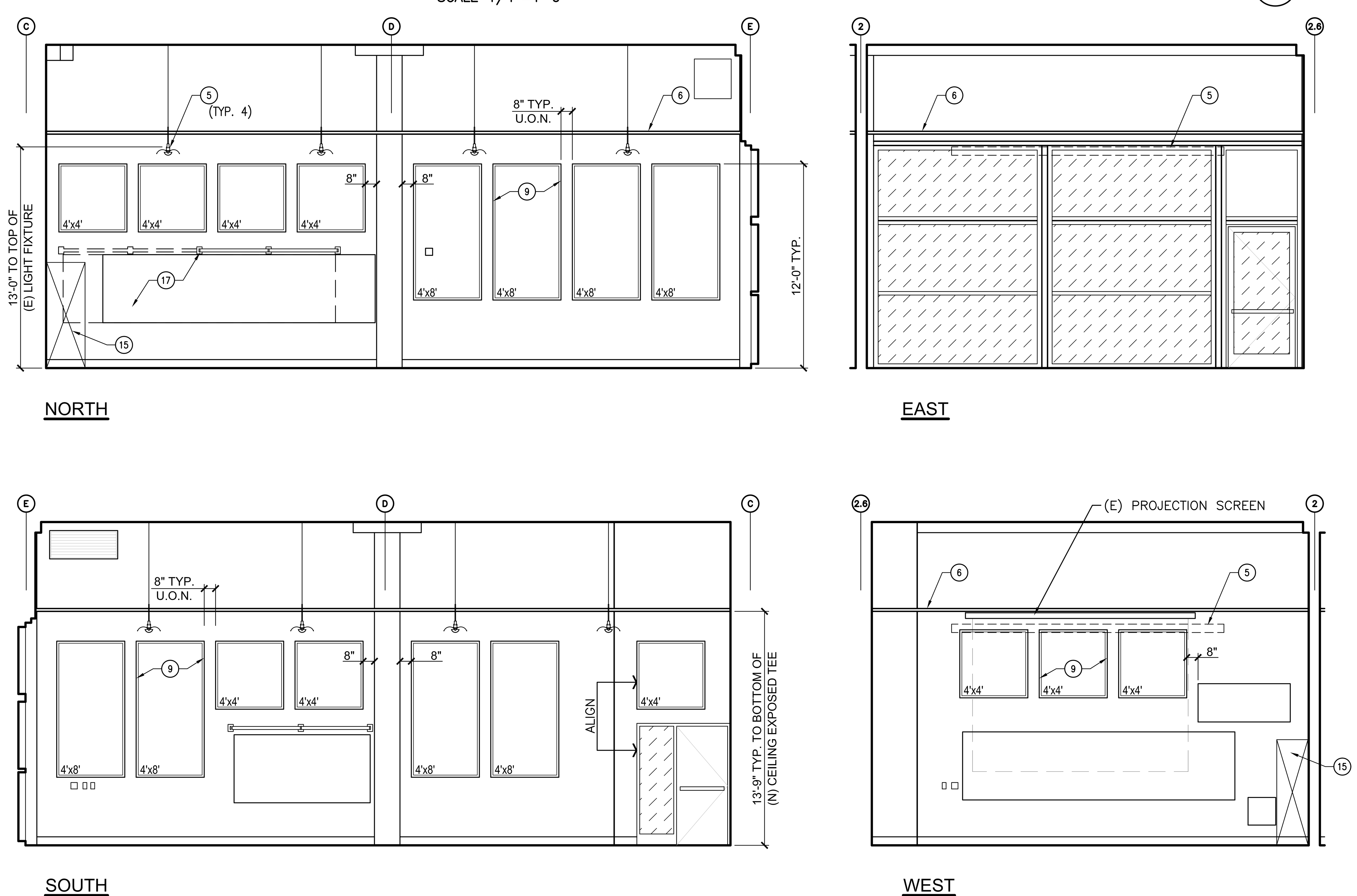
V:\others\1843333407\orch\dwg\A-272.dwg
2012-8-09 10:54 By: jufernandez
ORIGINAL SHEET – ARCH E1



INTERIOR ELEVATIONS - CLASSROOM 114

SCALE 1/4"=1-0"

3



INTERIOR ELEVATIONS - CLASSROOM 110

SCALE 1/4"=1-0"

4

NOTES

1	EXTEND EXISTING FIRE SPRINKLER SYSTEM TO PROVIDE HEADS BELOW THE ACOUSTICAL CEILING SYSTEM. DESIGN SHALL BE PROVIDED BY DESIGN/BUILD FIRE SPRINKLER SUBCONTRACTOR. SEE DETAIL 1/A-571.
2	PROVIDE RECTANGLE TO ROUND TRANSITION AT EACH (E) HVAC SUPPLY VENT REGISTER OPENING. EXTEND 10" ROUND BLACK FLEX DUCT FROM TRANSITION TO CEILING DIFFUSER SHOWN ON PLAN.
3	(E) ACOUSTICAL WALL PANELS IN CLASSROOMS SHALL BE REMOVED AND DISCARDED. AT THIS TIME THERE IS NO REQUIREMENT FOR THEM TO BE STORED ON SITE FOR USE ON FUTURE PROJECTS, SEE SHEET A-272.
4	(E) EXTERIOR DOOR SILLS (3 TOTAL) - REMOVE, REPAIR AND RE-INSTALL WITH CONTINUOUS BEADS OF SEALANT TO FORM WATERTIGHT CONDITION AT DOOR OPENING FROM SLAB, DOOR FRAME AND DOOR SILL. SEE DETAIL 6/A-571.
5	REPOSITION EXISTING WALL MOUNTED ILLUMINATED "EXIT" SIGNS AT EACH DOOR TO CEILING MOUNTED SYSTEM IN NEW ACOUSTICAL LAY-IN CEILING. ALIGN WITH ORIGINAL LOCATION AND MOUNT USING SIGN MANUFACTURER'S SYSTEM FOR THIS CEILING CONDITION.
6	EACH EXISTING WALL MOUNTED AUDIBLE/VISUAL FIRE ALARM NOTIFICATION SHALL REMAIN IN EXISTING LOCATION. REMOVE WITH REMOVAL OF EXISTING ACOUSTICAL PANEL AND RE-INSTALL WITH NEW PANEL USING SIMILAR ATTACHMENT METHOD. SEE SHEET A-272.
7	PENDANT HUNG LIGHT FIXTURES SHALL REMAIN SUPPORTED DIRECTLY FROM CEILING ABOVE. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT. ASTM E580-5.3.7. COORDINATE CEILING MAIN RUNNERS AND CROSS TEE LOCATION TO AVOID LIGHT FIXTURE SUPPORT CABLES. LIGHT SUPPORT CABLE PENETRATIONS OF CEILING TILES SHALL HAVE ADAPTER (MATCH CEILING COLOR) TO ALLOW FREE MOVEMENT IN ALL HORIZONTAL DIRECTIONS. PROVIDE SHOP DRAWINGS OF SYSTEM FOR REVIEW AND APPROVAL BY UNIVERSITY PROJECT MANAGER.

KEYNOTES

#	
1	NOT USED
2	NOT USED
3	NOT USED
4	NOT USED
5	(E) CEILING PENDANT LIGHT FIXTURES, TO REMAIN. PROVIDE GROMMET AT EACH CEILING TILE PENETRATION AND SEISMIC BRACING FOR (E) LIGHT SUPPORT CABLES. SEE NOTE 7 ON THIS SHEET.
6	(N) ACOUSTICAL CEILING SYSTEM, 24"x24" - SEE FINISH SCHEDULE AND SEE DETAILS 1 TO 4 ON SHEET A-571.
7	NOT USED
8	NOT USED
9	(N) 1" THICK ACOUSTICAL WALL PANEL. MOUNT TO WALL WITH MANUFACTURER STANDARD Z-CLIP SYSTEM. SIZES AS NOTED. - SEE FINISH SCHEDULE AND SEE 8/A-571.
10	NOT USED
11	NOT USED
12	(N) WALL MOUNTED PROJECTION SCREEN IN CLASSROOM 114 TO MATCH SCREEN IN CLASSROOM 110. SEE FINISH SCHEDULE AND SEE DETAIL 10/A-571.
13	NOT USED
14	PROVIDE MDF TRIM AND/OR EXTENDED FLANGE WALL MOLDING TO AVOID CEILING TILES LESS THAN 4" WIDE. FLUSH MDF WITH BOTTOM OF WALL MOLDING AND PAINT TO MATCH.
15	(N) LOCATION FOR IT/AV EQUIPMENT RACK (SIZE 22"Wx27"Dx74"H. CONSULT WITH UNIVERSITY REPRESENTATIVE FOR SPECIFIC REQUIREMENTS.
16	RELOCATE EXISTING MARKED BOARD AND LIGHT TO A POSITION ADJACENT TO CONCRETE PILASTER AT SAME ELEVATION. ADJUST WIRING AS REQUIRED. INSTALL USING SIMILAR METHOD OF ORIGINAL MOUNTING. PATCH AND REPAIR AS REQUIRED.
17	RELOCATE EXISTING MARKED BOARD TO A POSITION ADJACENT TO CONCRETE PILASTER AT SAME ELEVATION. MOVE LIGHT FIXTURE TO LOCATION USING EXISTING MOUNTING LOCATION, ADJUST WIRING AS REQUIRED. INSTALL USING SIMILAR METHOD OF ORIGINAL MOUNTING. PATCH AND REPAIR AS REQUIRED.
18	NEW METAL CEILING TILE PLATE FOR CEILING MOUNTED VIDEO PROJECTION SYSTEM BY AVC. FACTORY PAINT TO MATCH CEILING COLOR AND INSTALL PER MANUFACTURER SPECIFICATIONS, SEE DETAIL 9/A-571.

UC Merced

University of California
Merced, California

Project Name:
Classroom and Office Building Rooms 110 & 114 Renovations

Project Number:
907015

Civil Engineer:

Stantec

Stantec Consulting Services Inc.
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370 N Wiget Lane, Suite 210
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Drawing Stage:
100% CONSTRUCTION DOCUMENTS

Seals and Signatures:

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.

AC____FLS____SS____

DATE:

No.	Description	Issue Date
2	ADDENDUM #2	08.07.12

Drawn By:	MH, BV, BW
Revision Date:	06.26.2012
Plot Date:	06.26.2012
Scale:	AS NOTED

Key Plan

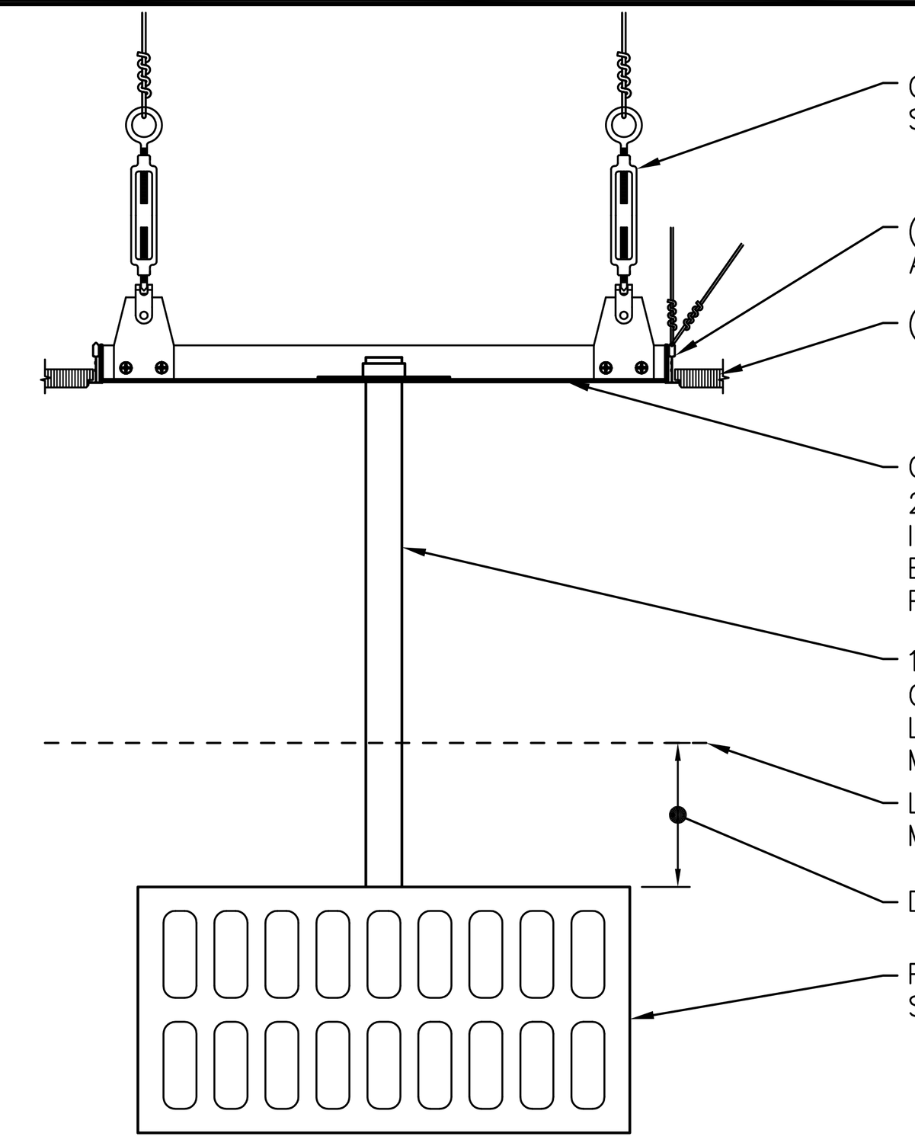
811
Know what's below. Call before you dig.

Drawing Title:
NEW INTERIOR ELEVATIONS (BID ALTERNATE)

Sheet Number:
A-272(a)

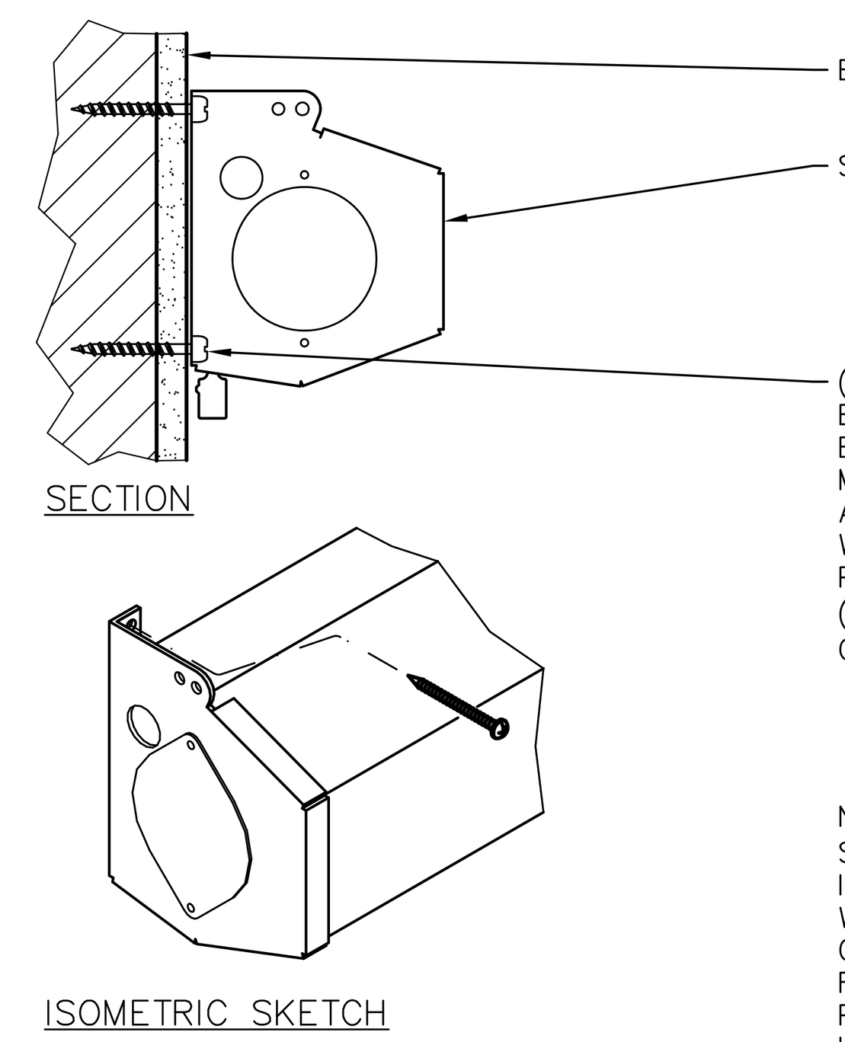
V:\others\1843333407\arch\dwg\A-272a.dwg
2012-8-08 15:07 By: jufernandez

ORIGINAL SHEET - ARCH E1



9 VIDEO PROJECTOR CEILING MOUNT SYSTEM

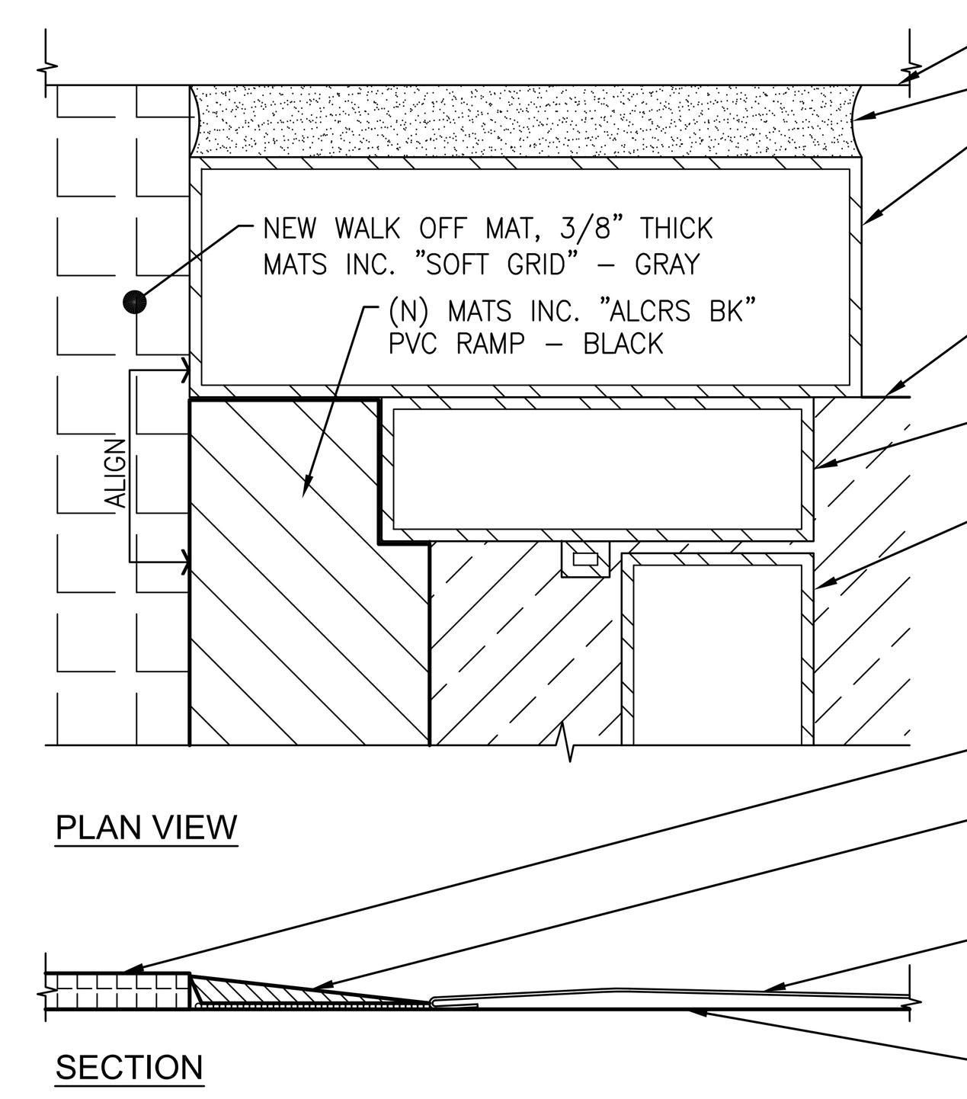
A571 | A571 SCALE: 1 1/2" = 1'-0"



NOTE: FOLLOW PROJECTION SCREEN MANUFACTURER'S WRITTEN INSTRUCTIONS FOR MOUNTING, WIRING AND CONTROLLING SCREEN OPERATION. ALL SHALL BE REVIEWED AND APPROVED BY AVC PRIOR TO ORDERING AND INSTALLATION.

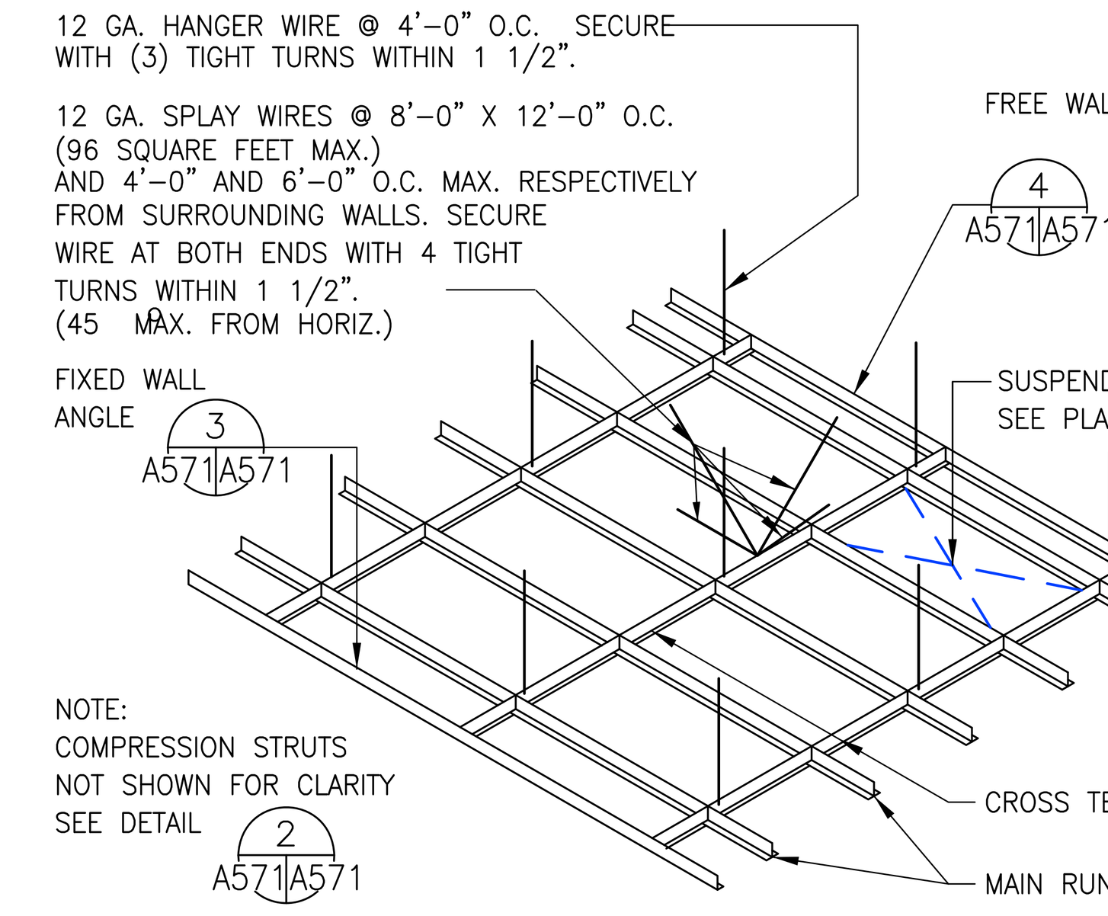
10 MOTORIZED WALL MOUNTED PROJECTION SCREEN MOUNT

A571 | A571 SCALE: NO SCALE



6 MAT AT DOOR THRESHOLD

A571 | A571 SCALE: 6" = 1'-0"



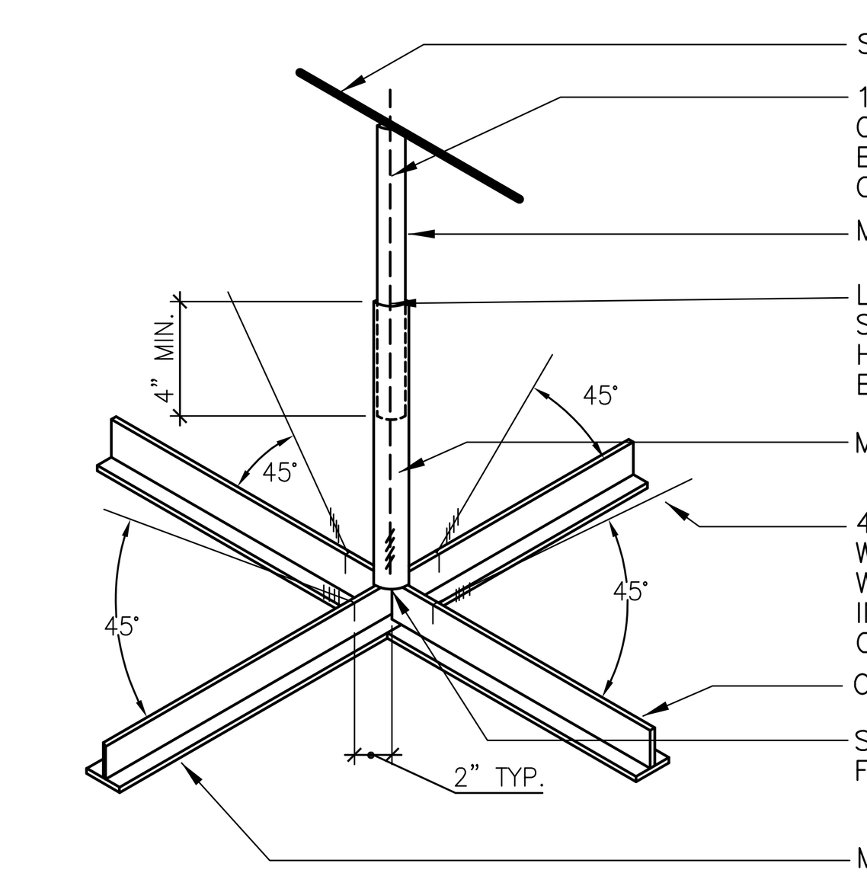
NOTE: FINISHED METAL SUSPENSION SYSTEM FOR LAY-IN PANEL CEILING SHALL BE IN CONFORMANCE WITH CALIFORNIA DSA INTERPRETATION OF REGULATIONS DOCUMENT IR 25-2, THE CBC AND ASTM E580. FOR SEISMIC DESIGN CATEGORY D, E & F, PROVIDE COMPONENTS AND CLEARANCES THAT ALLOW FOR ANTICIPATED CEILING MOTION. AIR TERMINALS AND LIGHT FIXTURES SUPPORTED ON RUNNERS SHALL CONFORM TO ABOVE REFERENCED CODES AND STANDARDS. SPRINKLER HEAD PENETRATIONS SHALL HAVE ADAPTER (MATCH CEILING COLOR) THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT IN ALL HORIZONTAL DIRECTIONS FOR ANTICIPATED MOTION.

1 CEILING GRID LAYOUT

A571 | A571 SCALE: NTS

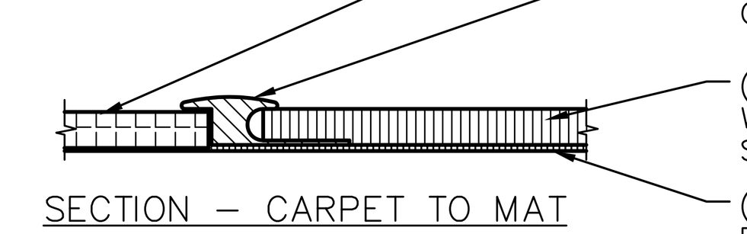
COMPRESSION POST SCHEDULE		
MAX. LENGTH	MEMBER "a"	MEMBER "b"
6'-6"	1" ø EMT	1 1/4" ø EMT
8'-6"	1½" ø EMT	1 1/2" ø EMT
11'-0"	2" ø EMT	2 1/2" ø EMT
13'-0"	2 1/2" ø EMT	3" ø EMT

NOTE: EXTEND TUBE TO BE TIGHT TO CLG. GRID & STRUCTURE ABOVE, THEN INSTALL BOLT. LAP TUBES AT LEAST 4".



2 COMPRESSION STRUT DETAIL

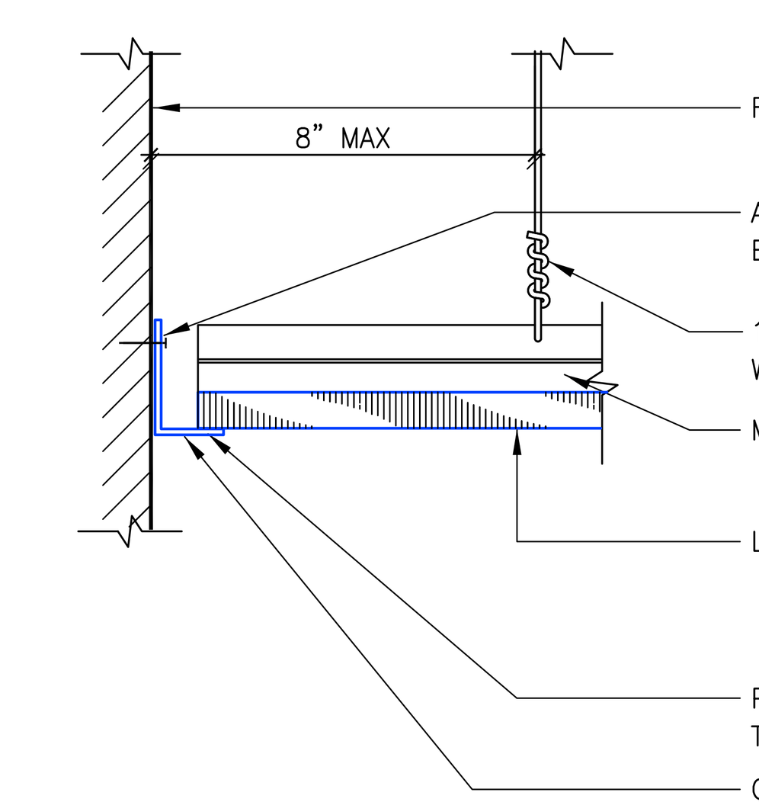
A571 | A571 SCALE: NTS



NOTE: MITER TRANSITION STRIP AT CORNER WHERE DIRECTION CHANGES, TYP.

7 CARPET TRANSITIONS

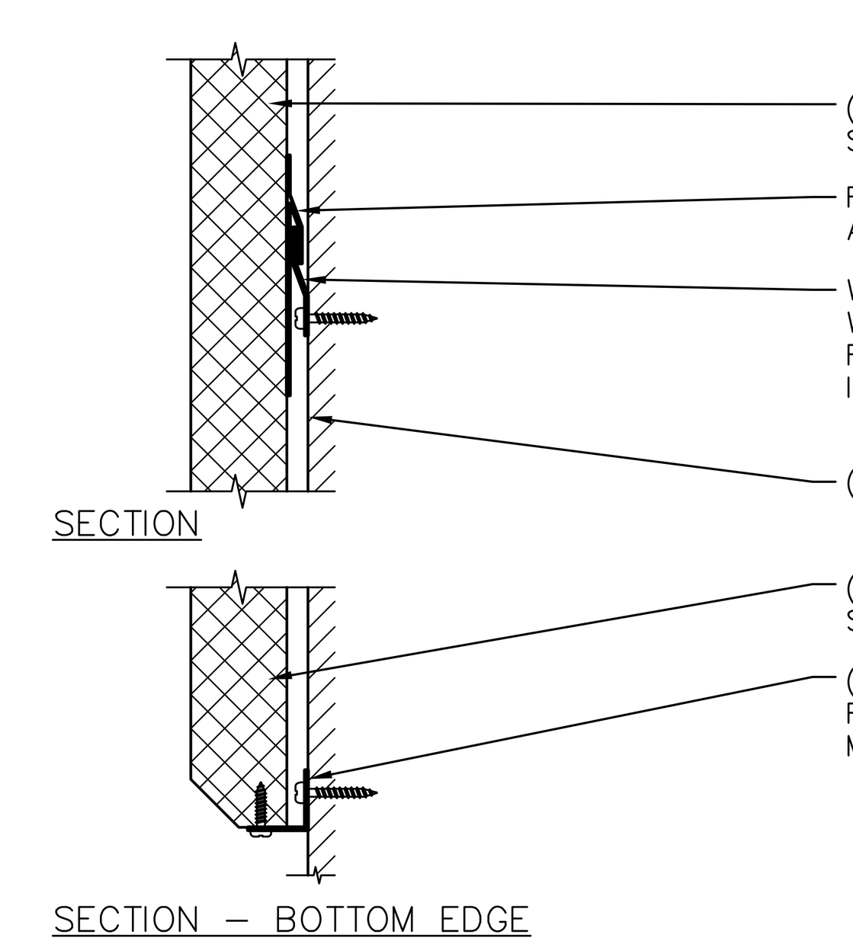
A571 | A571 SCALE: 6" = 1'-0"



NOTE: WIRES SHALL BE TAUT WITHOUT CAUSING LIFT

3 FIXED WALL MOLDING

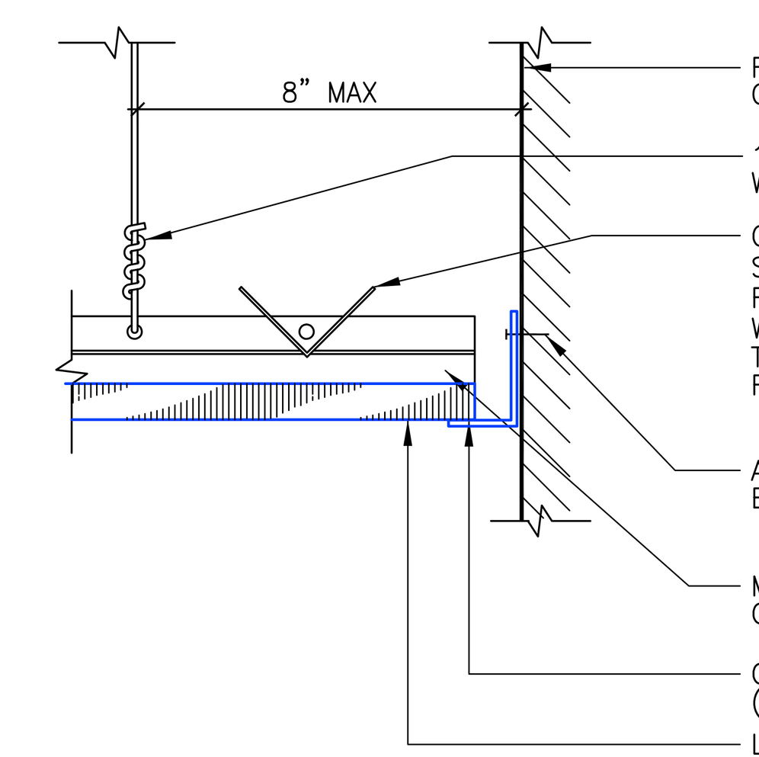
A571 | A571 SCALE: 3" = 1'-0"



NOTE: 1. PLACE AND SECURE L-BRACKETS TO SUPPORT PANEL WHEN RESTING ON Z-CLIPS, TYP.
2. ONCE PANEL IS SEATED, LOCK PANEL IN PLACE BY FASTENING A SCREW UP THROUGH EACH L-BRACKET INTO THE BOTTOM EDGE OF THE PANEL. USE HEX OR ALLEN HEAD SCREW TO LIMIT TAMPERING.

8 Z-CLIP PANEL INSTALL (TYP)

A571 | A571 SCALE: 6" = 1'-0"



NOTE: WIRES SHALL BE TAUT WITHOUT CAUSING LIFT

4 FREE WALL MOLDING

A571 | A571 SCALE: 3" = 1'-0"

UC Merced

University of California
Merced, California

Project Name:
Classroom and Office Building Rooms 110 & 114 Renovations

Project Number:
907015

Civil Engineer:

Stantec

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Reviewed by:
Date:
UCM Project No.: 906050

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No.	Description	Issue Date
1	ADDENDUM #2	08.07.12

Drawn By:	MH, BV, BW
Revision Date:	06.26.2012
Plot Date:	06.26.2012
Scale:	AS NOTED

Key Plan

811 Know what's below. Call before you dig.

Drawing Title:
CLASSROOM REMODEL DETAILS

Sheet Number:
A-571

V:\others\1843333407\prch\dwg\A-571.dwg
2012-8-07 14:34 By: domyers
ORIGINAL SHEET – ARCH E1