

## **BID ADDENDUM NO. 3**

September 24, 2018

### **Johnson Student Center**

### **Building Demolition, Increment 1 (Demolition) and Increment 2**

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT  
SANTA ANA, CA

### **DSA App. Nos.**

### **04-116810-1 and 04-116810-2**

TO: PROSPECTIVE BIDDERS

This Addendum forms a part of the Contract Documents and modifies the original Bidding Drawings and Specifications. Acknowledge receipt of this Addendum in spaces provided on the Bid Form. Failure to acknowledge may subject Bidder to disqualification.

- **RFP Documents**

- Revised Workbook tab "k" Specific Allowances and Allowance No. 5.

- **Drawings**

Architectural:

- Increment 2
  - i. General Contractor to provide an Exterior Material Mock-Up, refer to design drawings. Reference new sheets A0.01 and A0.02
- Increment 2
  - i. Added new detail sheet G3.12 (signage details) for monument / site signs.

Civil:

- Building Demolition
  - i. Revised sheet C1.00, refer to clouds and delta 3
    - 1. Refer to landscape, hardscape, underground wet/dry utilities being removed/demoed in their entirety in lieu of being protected.
    - 2. Revised/removed notes as needed for phasing of work with increment 1 and 2.
  - ii. Remove sheet C2.00 in its entirety and refer to Increment 1 and 2 erosion control and grading plans.
- Increment 2
  - i. Modifications to the West Plaza: The proposed sewer lateral, serving the West Plaza kiosk, connected to the existing 12" sewer line east of the plaza. Due to conflicts with the kiosk footing and the layout of the proposed sewer later, the lateral point of connection was revised and is now proposed to connect to the existing sewer line, running east/west through the West Plaza site. Refer to SKC-3.01

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Johnson Student Center  
Building Demolition, Increment 1 (Demolition) and Increment 2

Structural:

- Increment 2
  - Revised sheet SS1.02.1
    - Detail call out on SS1.02.1 Rear Elevation referenced F/A1.03 for the shade footing, this call out was revised to F/SS1.03.

Electrical:

- Increment 2
  - i. Lighting Control System manufacturer change per District:
    1. Revised Electrical Drawings to reflect changes from WattStopper Digital Lighting Management (DLM) to “Lutron Quantum” to match campus standard. Refer to full size sheets attached.

Plumbing:

- Increment 2
  - i. P2.12 added trench drain at Stair 1
  - ii. P2.22 added trench drain at Stair 1

- **Specifications**

- Increment 2
  - i. Replace specification section 260923 Distributed Digital Lighting Control System in its entirety.

- **Pre-Bid Clarification (PBC) Responses**

- Responses to PBC's, refer to attachments and list of PBC's included - below.

**ATTACHMENTS**

RFP Documents

- Revised Workbook tab “k” Specific Allowances

Drawings full size:

- Architectural:
  - Increment 2
    - A0.01, A0.02 and G3.12
- Civil:
  - Building Demolition
    - C1.00
- Structural
  - Increment 2
    - SS1.02.1
- Plumbing
  - Increment 2
    - P2.12 and P2.22
- Electrical:

Rancho Santiago Community College District  
Johnson Student Center  
Building Demolition, Increment 1 (Demolition) and Increment 2

- Increment 2
  - E0.01, E0.04, E0.05, E1.01, E2.01, E2.02, E2.03, E2.04, E2.11, E2.12, E2.13, E2.14, E3.01, E6.03 and E6.05

Sketches:

- SKC-3.01

Specifications

- 260923

Requests for Clarifications:

- PBC 09
- *PBC 10 was previously submitted with Addendum #2*
- PBC 11
- PBC 12
- PBC 13
- PBC 14
- PBC 15
- PBC 16
- PBC 17
- PBC 18
- PBC 19
- PBC 20
- PBC 21
- PBC 22
- PBC 23
- PBC 24
- PBC 25
- PBC 26
- PBC 27
- PBC 28
- PBC 29
- PBC 30
- PBC 31
- PBC 32
- PBC 33
- PBC 34
- PBC 35
- PBC 36
- PBC 37

PBC Log (**Not included. Will be issued in a forthcoming Addendum**)

## k) Specific Allowances

ITEM	MATERIAL	EQUIP/SUB	LABOR	TOTAL	REMARKS
1. Unforeseen conditions such as, but not limited to: existing soils, underground utilities, and unknown conditions related to hazardous abatement.	-	-	-	\$ 60,000	
2. Address soil-pumping conditions for _____ SF utilizing _____ solution	-	-	-	\$ -	Contractor to Determine (unit rate x SF = total)
3. Furniture and/or equipment revisions such as, but not limited to: additional provisions for backing, power, data.	-	-	-	\$ 40,000	
4. In the event on-site soils are more expansive than allowed by the geotechnical report, provide 18 inches of import engineered fill under _____ SF of concrete hardscape.	-	-	-	\$ -	Contractor to Determine (unit rate x SF = total)
5. In the event concrete moisture and alkalinity test (s) fail, contractor shall apply a concrete moisture and alkalinity barrier per Specification 071920 at resilient tile and linoleum flooring areas.	-	-	-	\$ -	Contractor to Determine (unit rate x SF = total)
<b>Total</b>	-	-	-	\$ -	

### General Notes:

- 1) Include backup as required to support allowance request.
- 2) Specific allowance dollar amounts may be reallocated between the various allowance categories, as approved in writing by the District in advance.







9/20/2018 2:49:13 PM \\hpi\local\Users\HpiData\Drawings\SCCD\SAC Johnson Student Center\01 Drawings\1 BIM\1\_Central\SCCD\_SAC\_Johnson\_Center\_MockUp\_Addendum\_3\_Central\_R1.rvt

**EXTERIOR ELEVATIONS - GENERAL NOTES**

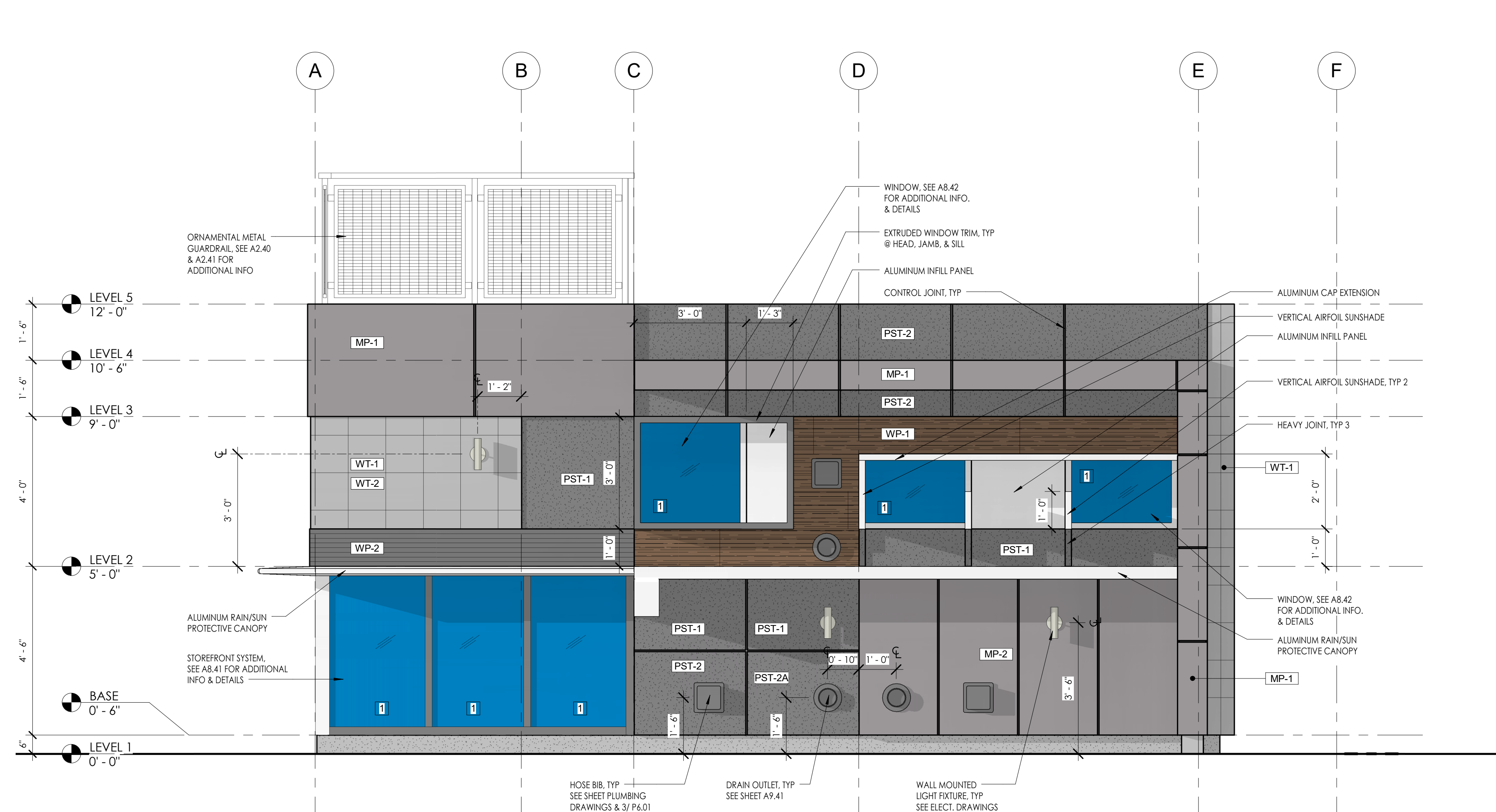
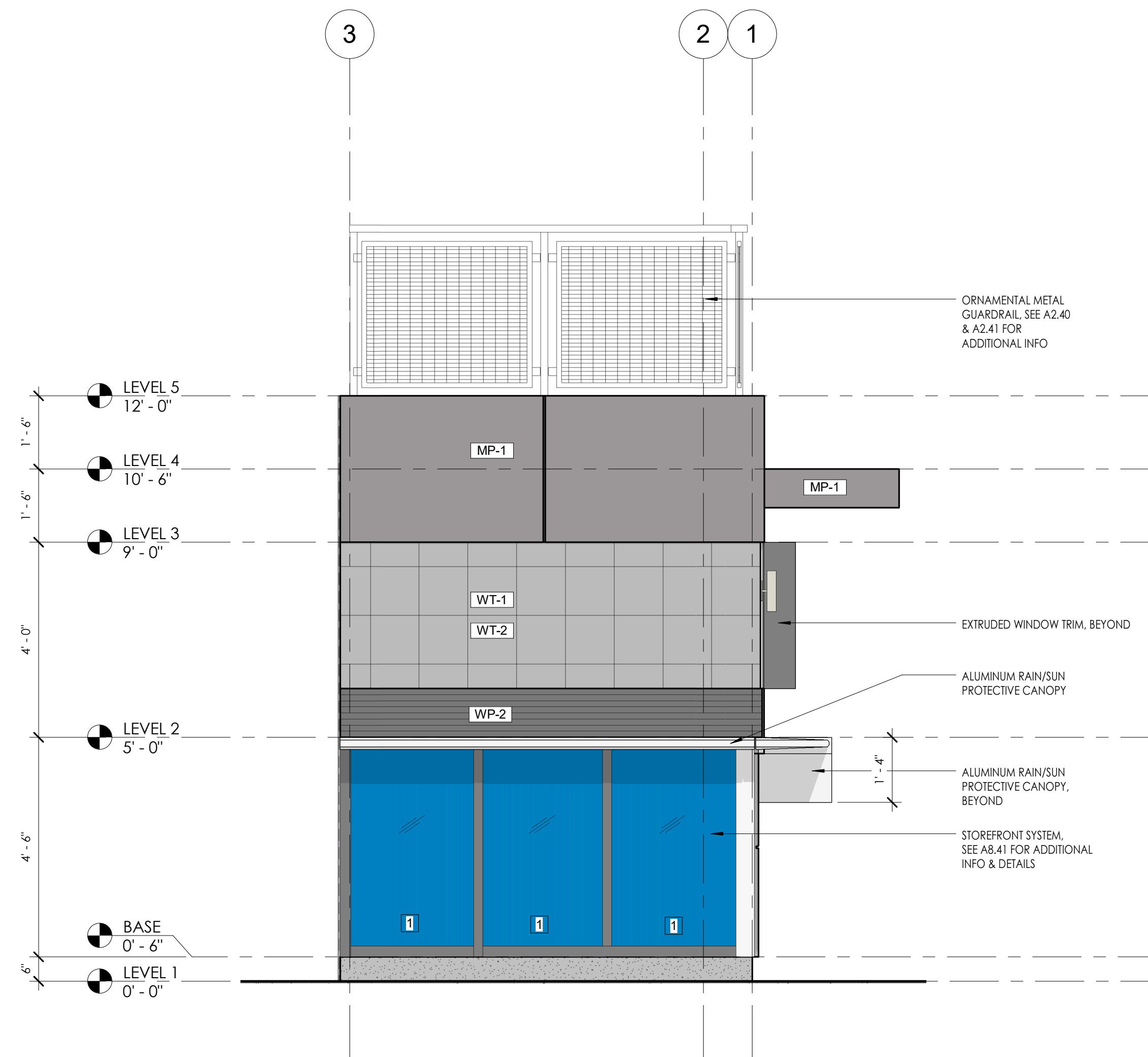
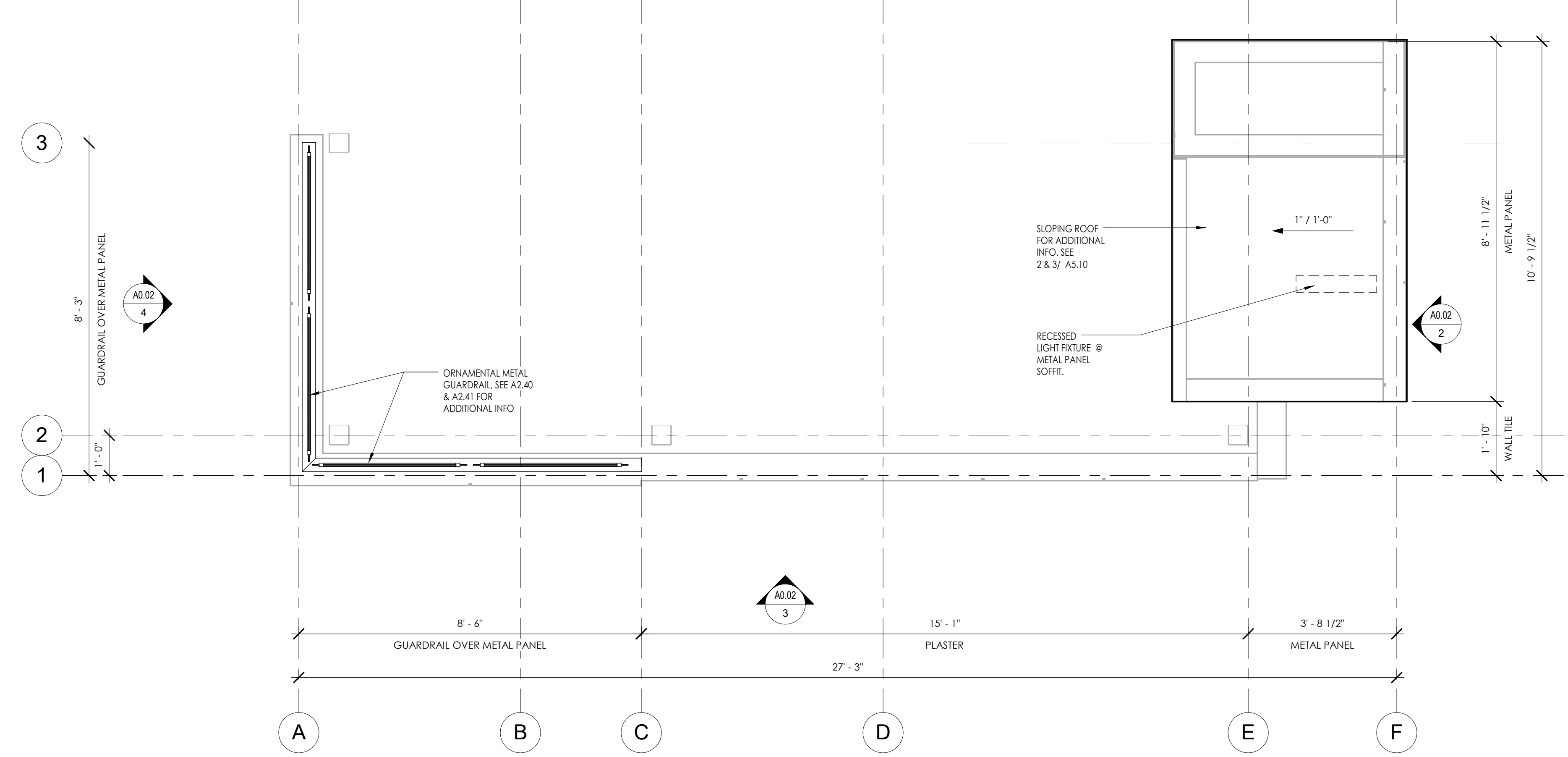
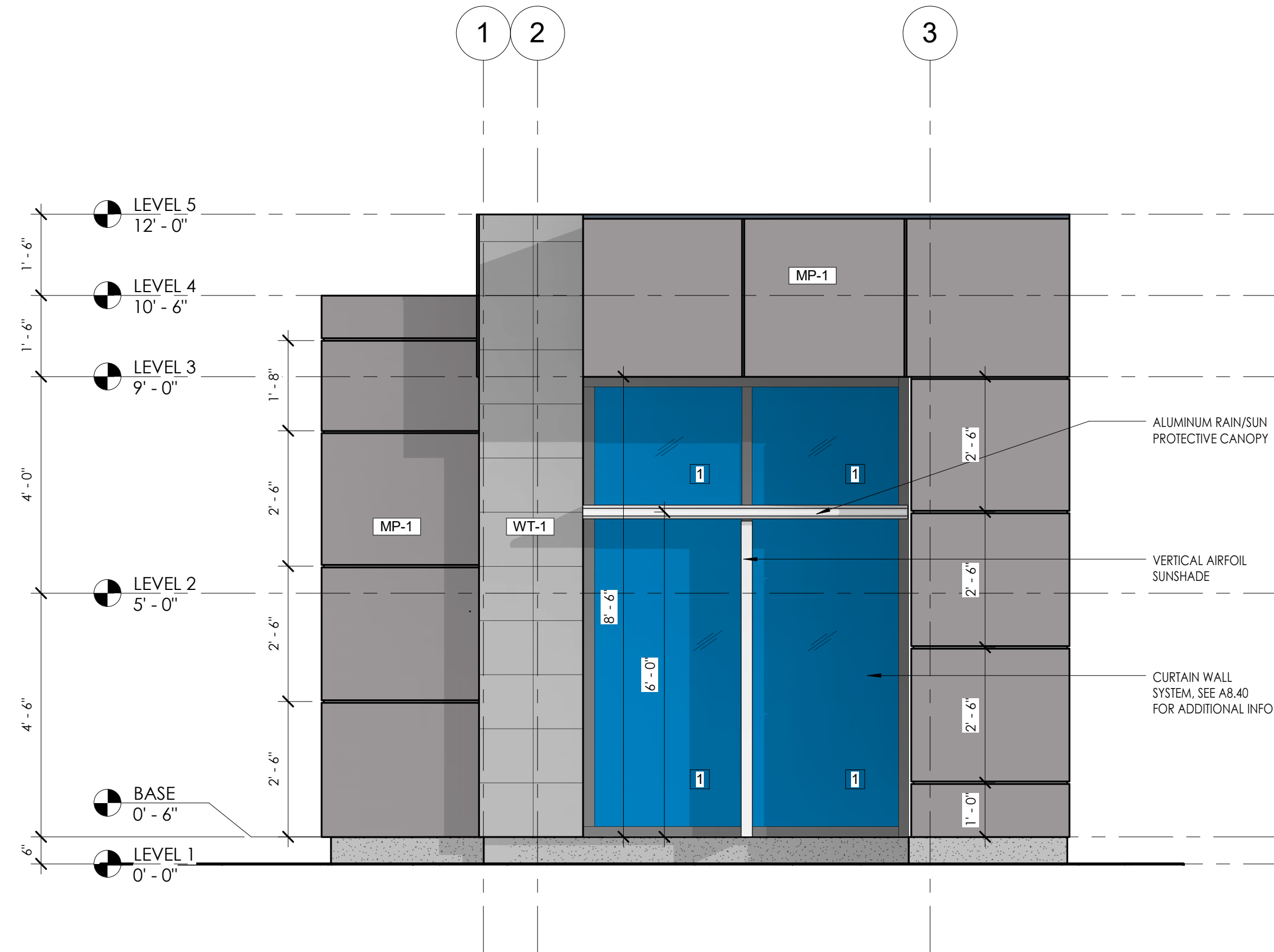
1. ALL METALS EXPOSED TO THE EXTERIOR (EXCEPT WHERE SPECIFIED TO BE PREFINISHED) INCLUDING STRUCTURAL STEEL, STEEL SHEETING, MISCELLANEOUS STEEL, SHEET METAL FLASHING, TRIM, ETC., SHALL BE GALVANIZED, PREPARED, AND PAINTED AS PER SPEC SECTION 09400 HIGH PERFORMANCE COATINGS.
2. ALL GUARDRAILS WILL POSTS, TOP RAIL AND HANDRAIL WILL HAVE A STAINLESS STEEL FINISH. THE MESH INFILL PANELS & FRAME WILL HAVE A "GALVANIZED PAINTED" FINISH SEE DETAIL 1-4/A9.70
3. ALL FACTORY FABRICATED METALS EXPOSED TO THE EXTERIOR INCLUDING LOUVERS, VENTS, CHAINLINK FENCES, DECORATIVE FENCES, BIKE RACKS, ETC., SHALL BE FACTORY FINISH.
4. ALL EXPOSED CONCRETE SHALL BE SACKED SMOOTH.
5. SEE SHEETS A9.40, A9.41, A9.42 FOR TYP EXTERIOR DETAILS.

**EXTERIOR MATERIAL COLOR LEGEND**

- NOTE: REFER TO SHEET A8.21 FOR FINISH MATERIAL SCHEDULE FOR ADDITIONAL INFORMATION.
- [MP-1] METAL PANEL - SELECT WHITE
  - [MP-2] METAL PANEL - T.B.D.
  - [MPC-1] CORRUGATED METAL PANEL - COLOR 1
  - [MPC-2] CORRUGATED METAL PANEL - COLOR 2
  - [WP-1] DECORATIVE HIGH PRESSURE WALL PANEL (TRESPA) - COLOR 1
  - [WP-2] DECORATIVE HIGH PRESSURE WALL PANEL (TRESPA) - COLOR 2
  - [PST-1] EXTERIOR PLASTER - COLOR 1
  - [PST-2] EXTERIOR PLASTER - COLOR 2
  - [PST-2A] EXTERIOR PLASTER - COLOR 2 W/ ANTI-GRAFFITI COATING (ALTERNATE #3)
  - [WT-1] PORCELAIN WALL TILE W/ DIGITALLY APPLIED ARTWORK (25% OF WALL AREA)
  - [WT-2] PORCELAIN WALL TILE (75% OF WALL AREA)

**GENERAL NOTES**

1. SHEET METAL - SHOP FAB. IS ACCEPTABLE
2. SHEET METAL - TOUCH-UP PAINT REQUIRED FOR MOCKUP
3. CONTRACTOR TO COORDINATE LOCATION OF MOCKUP ON SITE
4. MOCKUP TO BE WORKING MOCKUP AND REVISIONS WILL BE MADE DURING CONSTRUCTION AS NEEDED PER ARCHITECT'S DIRECTION.
5. REFERENCE ISA APPROVED DRAWINGS AND SPECS (A194-11&10) FOR DETAILS AND MATERIAL C.
6. NO STRUCTURAL STEEL. MOCKUP IS INTENDED TO BE FRAMED WITH STEEL STUDS AND IS SELF-SUPPORTING.
7. MOCKUP SHALL BE FRAMED WITH 1 1/2" GA. 6" STUDS @ 12" O.C. U.N.O. REF TO SHEET SA.10 FOR MORE INFO.
8. DETAIL REFERENCES ARE INTENDED TO SHOW MATERIAL TRANSITION AND ASSEMBLY REFER TO SHEET A0.01 & A0.02 FOR DIMENSIONS.



**NOTE:**  
CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY SUPPORT STRUCTURE AND BRACING REQUIRED FOR VERTICAL AND LATERAL SUPPORT OF THE MOCK-UP



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A# 04 - 116810

AC FLS SS

DATE

PROJECT TITLE

JOHNSON STUDENT CENTER  
INCREMENT 2

1530 W 17TH ST SANTA ANA, CA 92706



SUBMITTALS	
#	DATE
1	09/24/2018
2	
3	
4	
5	
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8	
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PROJECT IDENTIFICATION Project Number  
THESE DRAWINGS ORIGINALLY CREATED IN AUTODESK REVIT V. 2016 U.S.O.  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

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SHEET TITLE:  
FLOOR PLAN &  
ELEVATIONS

SHEET NUMBER

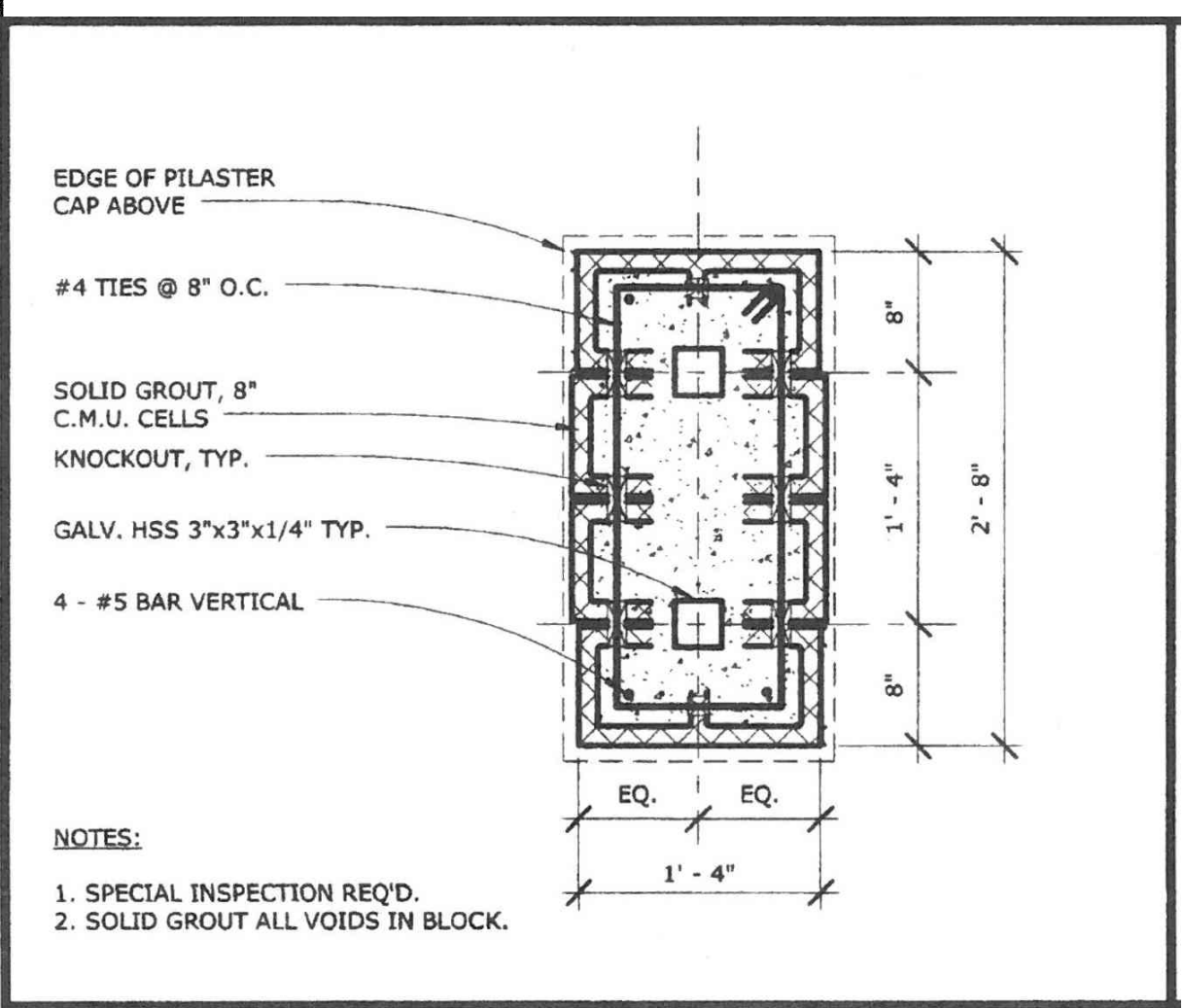
ADDENDUM 3

A0.02

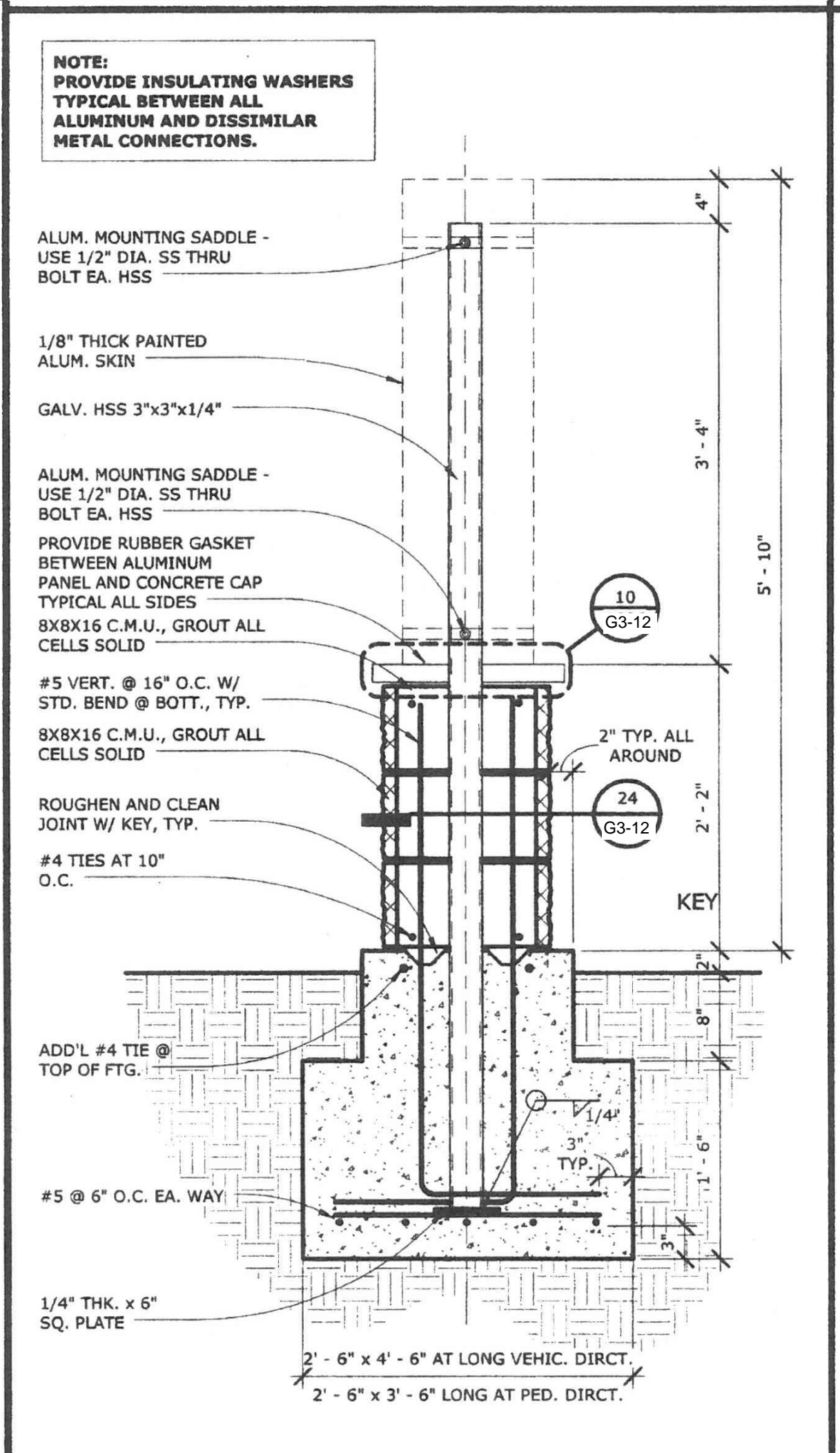


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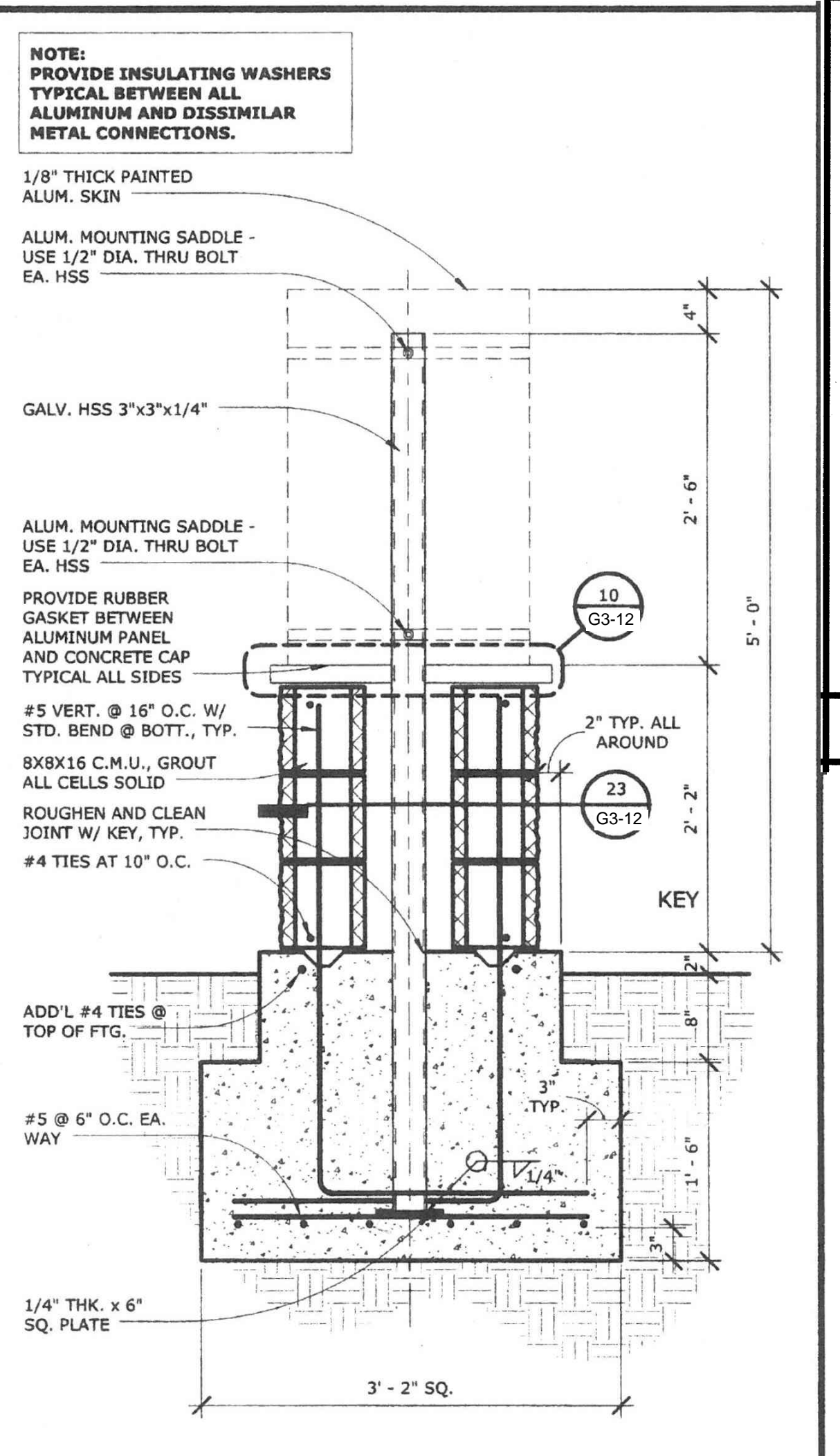
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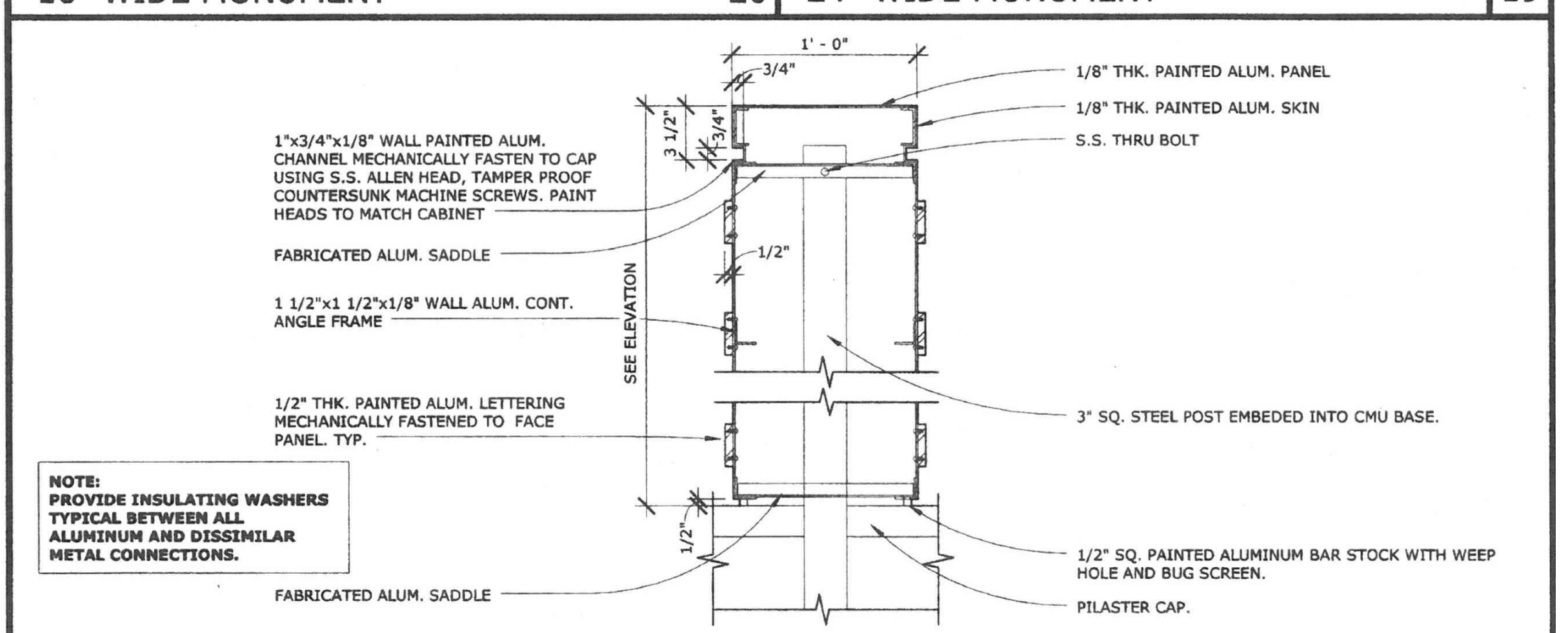
**MONUMENT PLAN** 1" = 1'-0" 24



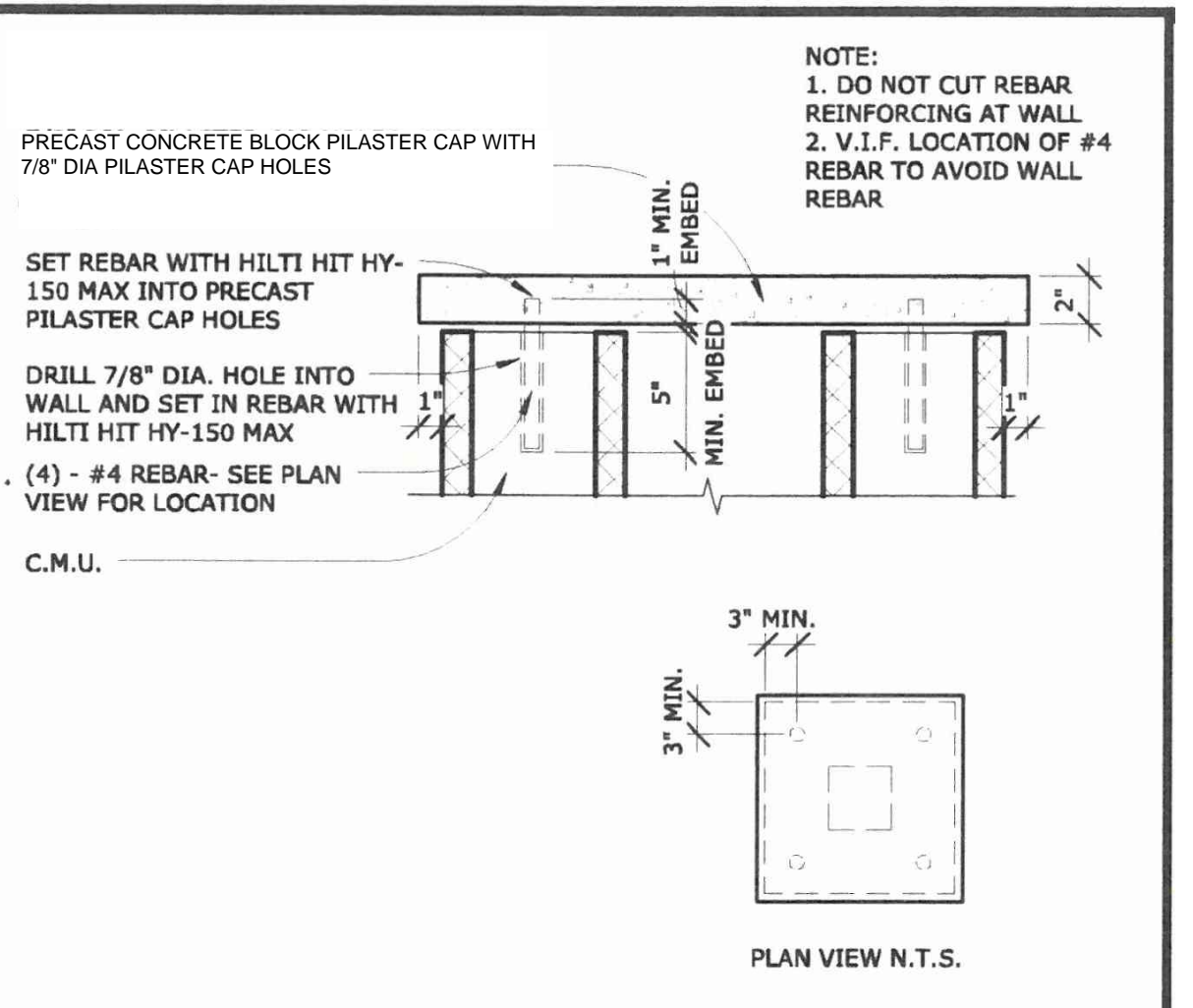
**16" WIDE MONUMENT** 1" = 1'-0" 20



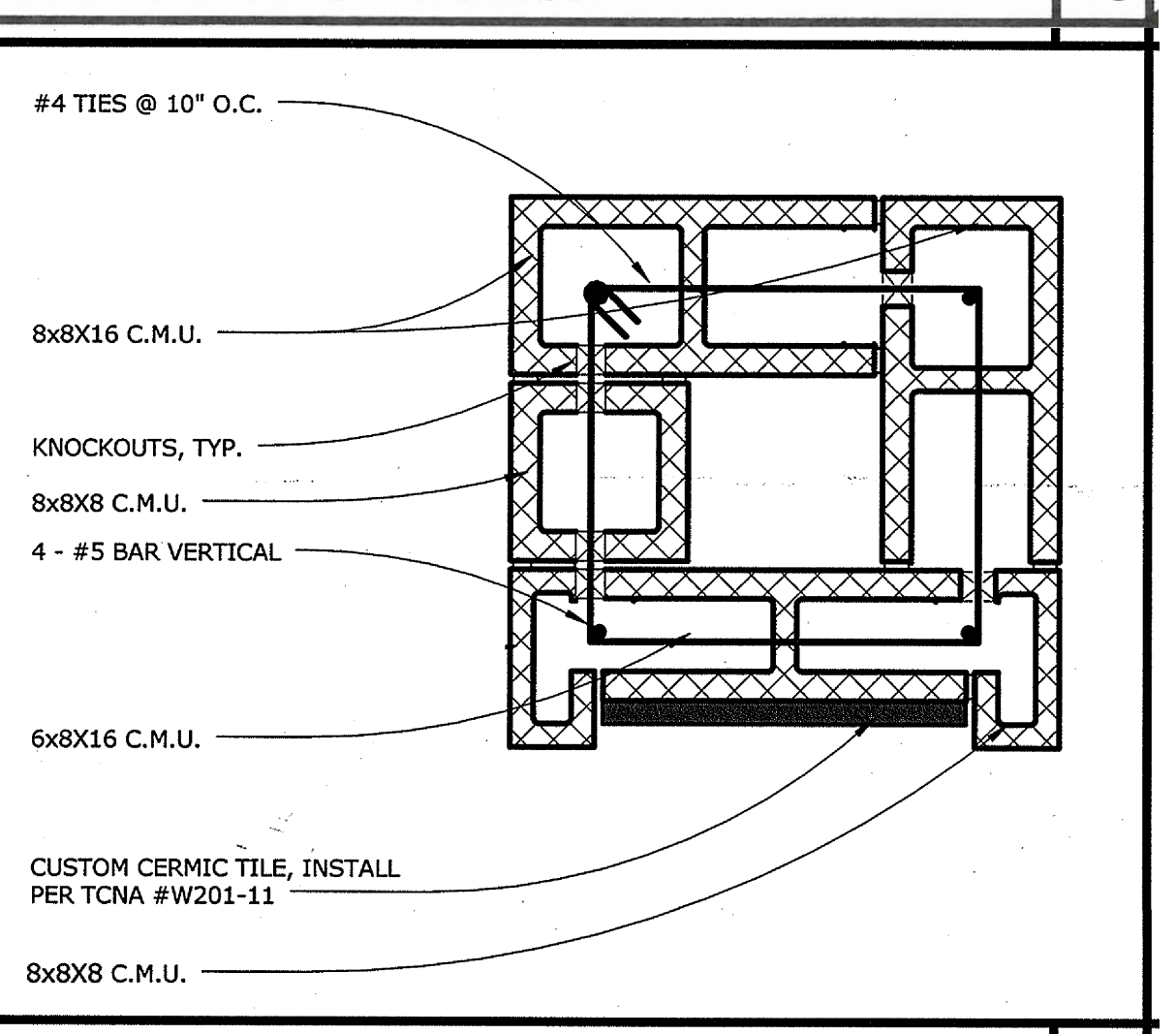
**24" WIDE MONUMENT** 1" = 1'-0" 19



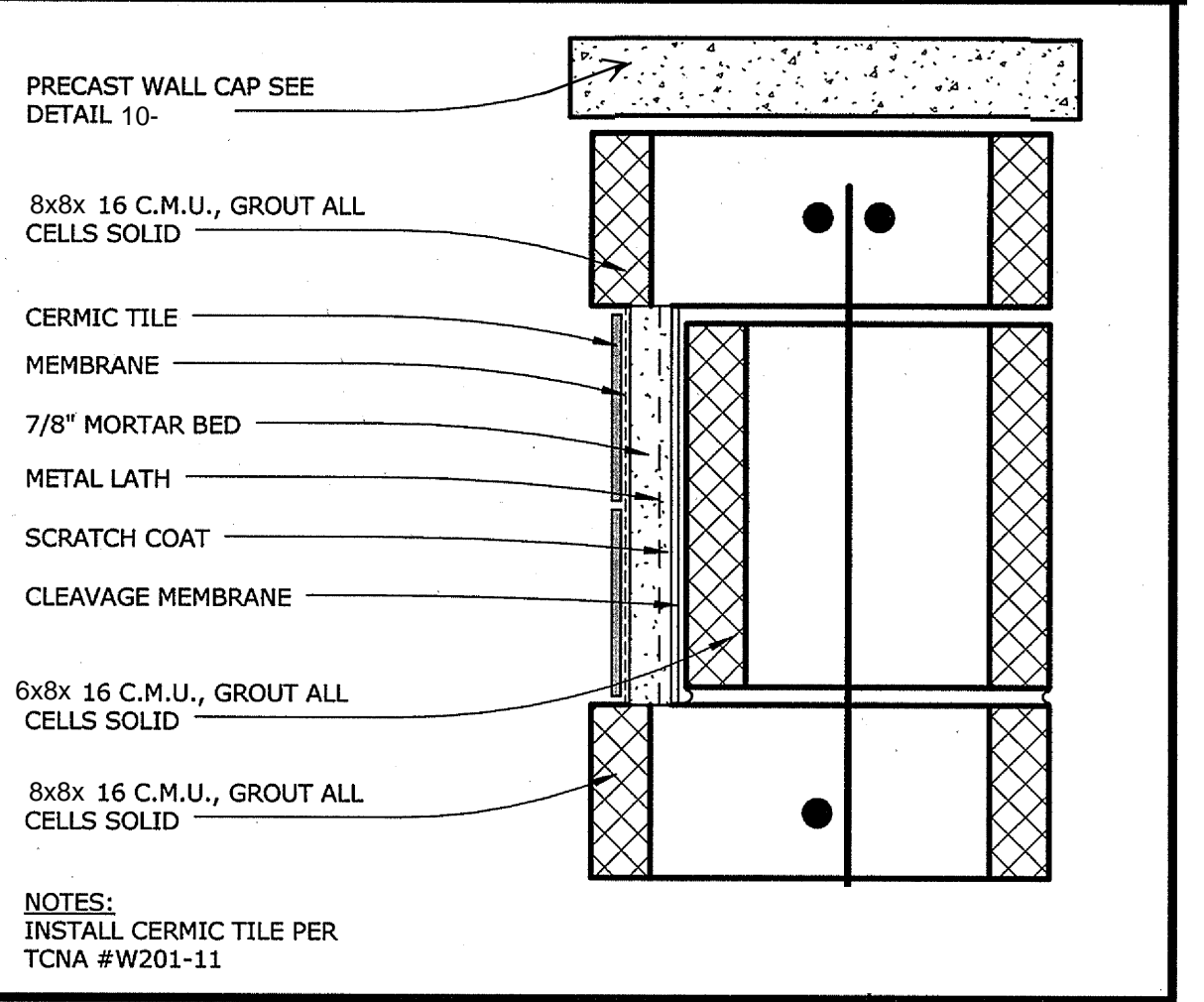
**ALUMINUM SIGN SECTION** 1 1/2" = 1'-0" 17



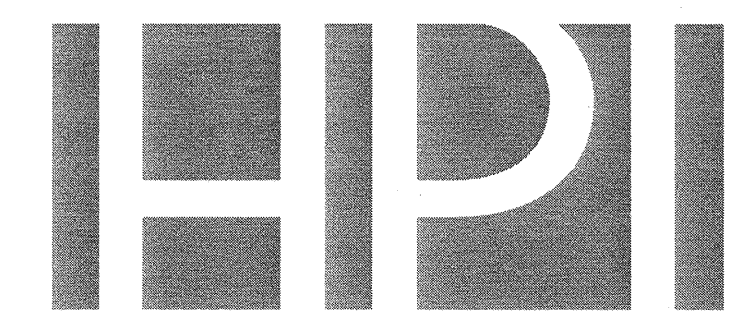
**PILASTER CAP SECTION** 1 1/2" = 1'-0" 10



**PILASTER TILE INSET** 1 1/2" = 1'-0" 14



**TILE AT C.M.U. WALL** 3" = 1'-0" 13



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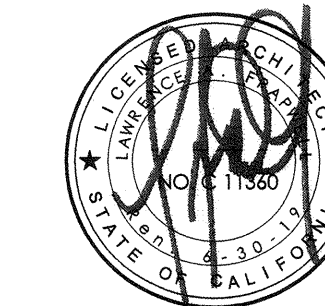
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PROJECT TITLE  
JOHNSON STUDENT CENTER  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS		
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3	09/24/18	ADDENDUM 3

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SHEET TITLE  
**SIGNAGE DETAILS**

SHEET NUMBER

**G3.12**

DSA SUBMITAL



EARTHWORK NOTES TO CONTRACTOR:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PLANS THOROUGHLY PRIOR TO MOBILIZATIONS. IT IS ALSO THE GRADING CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CIVIL OF RECORD IF ONSITE DISCREPANCIES ARE OBSERVED THAT WOULD AFFECT THE EARTHWORK.
- THE EXISTING TOPOGRAPHY SHALL BE UTILIZED AS THE BASIS FOR ALL EARTHWORK COMPUTATIONS. SAID TOPOGRAPHY SHALL BE PRESUMED TO BE ACCEPTABLE TO ALL INTERESTED PARTIES UNLESS A DEVIATION IS FOUND PRIOR TO THE START OF GRADING IN ANY SPECIFIC AREAS. ANY DEVIATION SO DETERMINED SHALL BE PROMPTLY TRANSMITTED TO ALL INTERESTED PARTIES.
- THE CONTRACTOR IS REQUIRED TO ESTIMATE THE QUANTITIES OF GRADING WORK TO BE DONE AND INCLUDE ALL COSTS THEREFROM WITHIN HIS BID, AND NO ADDITIONAL ALLOWANCE WILL BE MADE WITHOUT PRIOR CONSENT FROM THE OWNER.
- OFF-SITE DISPOSAL OF EXCAVATION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN HIS BID. THE CONTRACTOR SHALL HOLD THE OWNER AND ENGINEER HARMLESS AS A RESULT OF ANY CLAIMS ARISING FROM THE ACTIONS ENROUTE OR AWAY FROM THE SITE.
- ANY EXPORT OR IMPORT REQUIRED TO BALANCE THE SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

PROTECTION NOTES	
36	PROTECT IN PLACE EXISTING STORM DRAIN
37	PROTECT IN PLACE EXISTING SEAT WALLS AND ASSOCIATED LANDSCAPING AND HARDSCAPING
38	PROTECT EXISTING MONUMENT
39	PROTECT EXISTING TREE

DEMOLITION NOTES	
1	EXISTING BUILDING TO BE DEMOLISHED (REMOVED) IN ITS ENTIRETY. REMOVE/DEMO EXISTING SLAB ON GRADE (SOG) IN ITS ENTIRETY CUT/CLEAR STEEL REINFORCEMENT TOP OF EXISTING CAPS/GRADE BEAMS TO REMAIN. PROVIDE ENGINEERED FILL AS REQUIRED. REFER TO CIVIL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. SEPARATE DEMOLISHED MATERIAL PER LEED GREEN BUILDING RATING SYSTEM WASTE MANAGEMENT.
2	REMOVE EXISTING STORM DRAIN INLET
3	REMOVE EXISTING CONCRETE CULVERT/STORM DRAIN LINE AND CAP AT BOUNDARY LINE
4	REMOVE EXISTING SEAT WALLS IN THEIR ENTIRETY INCLUDING FOOTINGS, WITHIN THE DEMOLITION BOUNDARY
5	REMOVE EXISTING STAIRS IN THEIR ENTIRETY INCLUDING ALL FOOTINGS
6	REMOVE EXISTING SITE LIGHT AND BASE IN ENTIRETY. REFER TO AS-BUILT PLANS FOR FULL DESCRIPTION OF LIGHTING FIXTURES AND BASES.
7	REMOVE ALL EXISTING PAVING AND ASSOCIATED REBAR/CONCRETE WITHIN DEMOLITION BOUNDARY
8	REMOVE ALL EXISTING TREES AND LANDSCAPING WITHIN THE DEMOLITION BOUNDARY, INCLUDING ALL ROOTS, ROOT BALLS 3' BEYOND TREE CANOPY.
9	REMOVE ALL EXISTING BOLLARDS WITHIN DEMOLITION BOUNDARY
10	REMOVE EXISTING MANHOLE
11	REMOVE ALL EXISTING C.L. FENCING WITHIN DEMOLITION BOUNDARY
12	REMOVE EXISTING ELECTRICAL EQUIPMENT
13	REMOVE/DEMO EXISTING SHED IN ITS ENTIRETY INCLUDING FOOTINGS, GRADE BEAMS, AND CAPS AS NOTED ON ARCHITECTURAL PLANS, LEVEL AND COMPACT BUILDING REMOVAL AREA.
14	REMOVE ALL ELEVATORS IN THEIR ENTIRETY INCLUDING ELEVATOR FITS AND THEIR FOOTINGS
15	REMOVE EXISTING SEWER.
16	REMOVE EXISTING WATER
17	REMOVE EXISTING FIRE HYDRANT



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**JOHNSON STUDENT CENTER  
DEMOLITION**  
1530 West 17th Street, Santa Ana, CA 92706



2323 NORTH BROADWAY  
SANTA ANA, CA 92706

SUBMITTALS		
#	DATE	DESCRIPTION
1	12/07/2017	100% CD SUBMITTAL

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SHEET TITLE  
**EXISTING SITE AND  
DEMOLITION PLAN**

SHEET NUMBER

C1.00

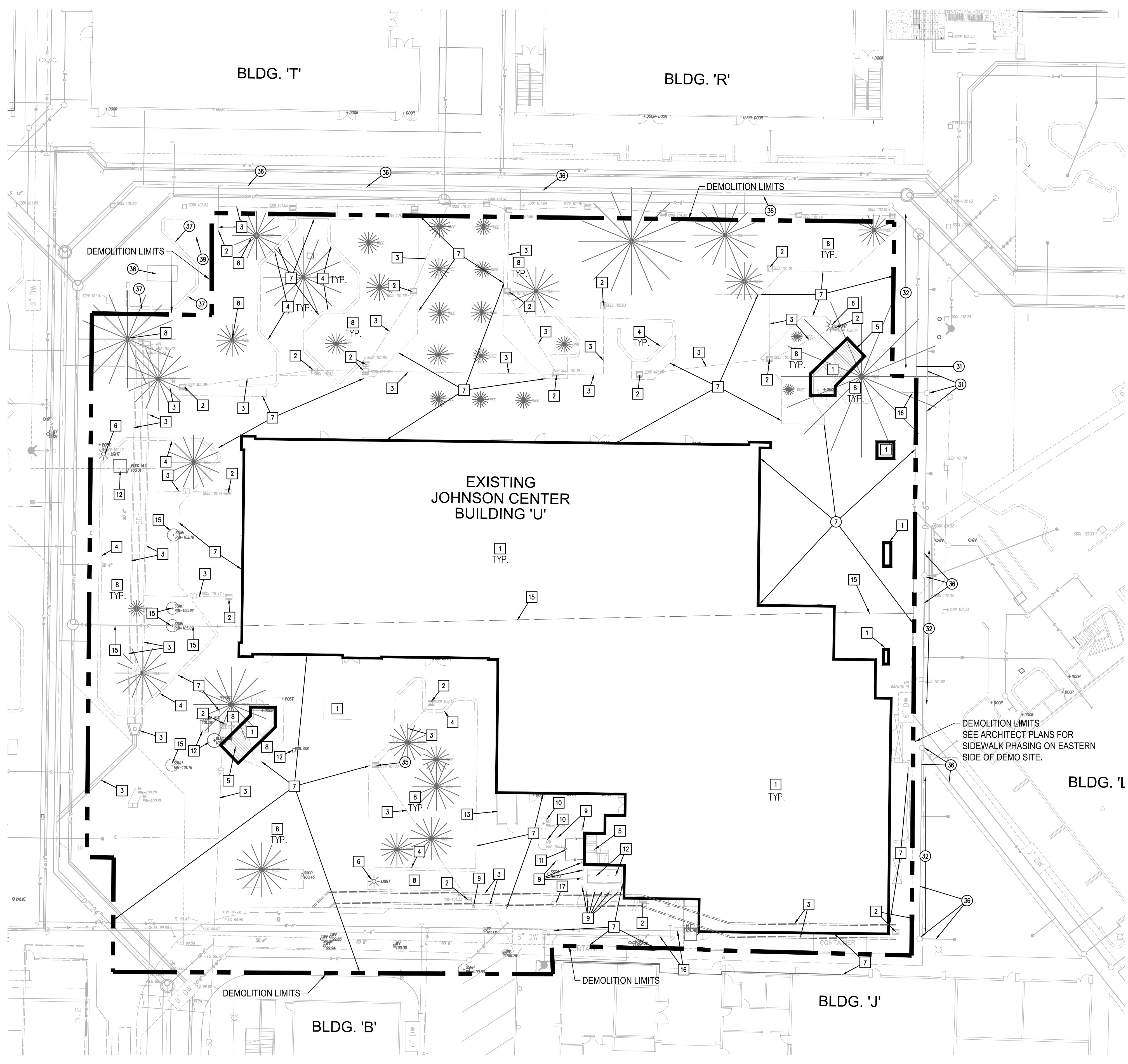
CONSTRUCTION DOCUMENTS

AERIAL SURVEY LEGEND

- |      |                     |      |                            |
|------|---------------------|------|----------------------------|
| CONC | CONCRETE            | ASPH | ASPHALT SURFACE            |
| ASPH | ASPHALT             | ATM  | BANKING MACHINE            |
| ○    | TREE                | BRK  | BRICK SURFACE              |
| ○    | BUSH                | BWL  | BRICK WALL                 |
| ○    | PALM TREE           | CD   | CURB DOOR                  |
| ○    | UNIDENTIFIED OBJECT | COL  | COLUMN/PILLAR              |
| ○    | LIGHT STANDARD      | CONC | CONCRETE SURFACE           |
| ○    | TS                  | DC   | DETECTOR CHECK             |
| ○    | STREET LIGHT        | DNE  | DO NOT ENTER               |
| ○    | SIGN (10')          | ECB  | ELECT. CONTROL BOX         |
| ○    | SIGN (5')           | EG   | EDGE OF CUTTER             |
| ○    | LS                  | ELM  | EL. METER                  |
| ○    | LARGE SIGN POST     | ECC  | EDGE OF CONCRETE           |
| ○    | CATCH BASIN         | EVT  | ELECT. VAULT               |
| ○    | DROP INLET          | FDC  | FIRE DETECTOR CHECK        |
| ○    | LP                  | FL   | FLOW LINE                  |
| ○    | PARKING METER       | FF   | FINISHED FLOOR             |
| ○    | DROP INLET          | FR   | FIRE RISER                 |
| ○    | RRS                 | FS   | FINISHED SURFACE           |
| ○    | SIGN                | GWC  | GWC SIGNAGE                |
| ○    | FIRE HYDRANT        | ICV  | IRR. CONTROL VALVE         |
| ○    | POWER POLE          | LKD  | LOCKED (NO ACCESS)         |
| ○    | TRANSFORMER BOX     | MKR  | MARKER                     |
| ○    | GUYWIRE/ANCHOR      | MOW  | MOW STRIP                  |
| ○    | METER               | MTR  | METER                      |
| ○    | POST (NO LABEL)     | NG   | NATURAL GROUND             |
| ○    | VALVE               | PG   | PLAYGROUND AREA            |
| ○    | MANHOLE             | PKNG | PARKING                    |
| ○    | HANDICAP            | PLT  | PLANTER                    |
| ○    | UTILITY BOX         | PR   | PILLAR                     |
| ○    | STAND PIPE          | PT   | PICNIC TABLE               |
| ○    | FENCE               | RMP  | RAMP                       |
| ○    | RETAIN WALL/FENCE   | RW   | RETAINING WALL             |
| ○    | RETAINING WALL      | S    | SANITARY SEWER             |
| ○    | TREE LINE-DRIP LINE | SB   | SPEED BUMP                 |
| ○    | BRUSH LINE          | SCR  | SCREEN WALL                |
| ○    | SPOT GRADE          | SCO  | SEWER CLEANOUT             |
| ○    | STORM DOOR MANHOLE  | SD   | STORM DOOR                 |
| ○    | WATER VALVE         | SDR  | STORM DOOR RISER           |
| ○    | SEWER MANHOLE       | SPDL | SPEED LIMIT SIGN           |
| ○    | SIGN                | ST   | STEP/STOOP                 |
| ○    | UTILITY POLE        | STR  | STAIRCASE                  |
| ○    | GUY ANCHOR          | T    | TELEPHONE                  |
| ○    | MANHOLE             | TC   | TOP OF CURB                |
| ○    | SEWER CLEANOUT      | TCG  | TOP OF GRATE               |
| ○    | ELECTRIC PULL BOX   | TVT  | TEL. VAULT                 |
| ○    | CATV PULL BOX       | W    | WATER                      |
| ○    | WATER METER BOX     | WL   | WALL                       |
| ○    |                     | WVT  | WATER VAULT                |
| ○    |                     | ???  | ORIGIN/DESTINATION UNKNOWN |

FIELD SURVEY LEGEND

- |   |                            |   |                         |
|---|----------------------------|---|-------------------------|
| ○ | AIR RELEASE VALVE          | ○ | STREET LIGHT            |
| ○ | BLOW OFF                   | ○ | STREET LIGHT PULL BOX   |
| ○ | BOLLARD                    | ○ | STORM DOOR MAN HOLE     |
| ○ | CABLE TELEVISION PULL BOX  | ○ | TELEPHONE MANHOLE       |
| ○ | DOOR                       | ○ | TELEPHONE PULL BOX      |
| ○ | ELECTRIC METER             | ○ | TREE                    |
| ○ | ELECTRICAL MANHOLE         | ○ | TRAFFIC SIGNAL          |
| ○ | ELECTRICAL PULL BOX        | ○ | TRAFFIC SIGNAL PULL BOX |
| ○ | FIRE DEPARTMENT CONNECTION | ○ | VENT                    |
| ○ | FIRE HYDRANT               | ○ | WATER METER             |
| ○ | GAS VALVE                  | ○ | WATER MAN HOLE          |
| ○ | GAS METER                  | ○ | WATER VALVE             |
| ○ | GUY WIRE                   | ○ | UTILITY POLE            |
| ○ | IRRIGATION CONTROL VALVE   | ○ | SPOT GRADE              |
| ○ | PARKING LIGHT              |   |                         |
| ○ | MAILBOX                    |   |                         |
| ○ | MANHOLE                    |   |                         |
| ○ | PALM TREE                  |   |                         |
| ○ | PARKING METER              |   |                         |
| ○ | SEWER MAN HOLE             |   |                         |
| ○ | SEWER CLEAN OUT            |   |                         |
| ○ | SIGN                       |   |                         |

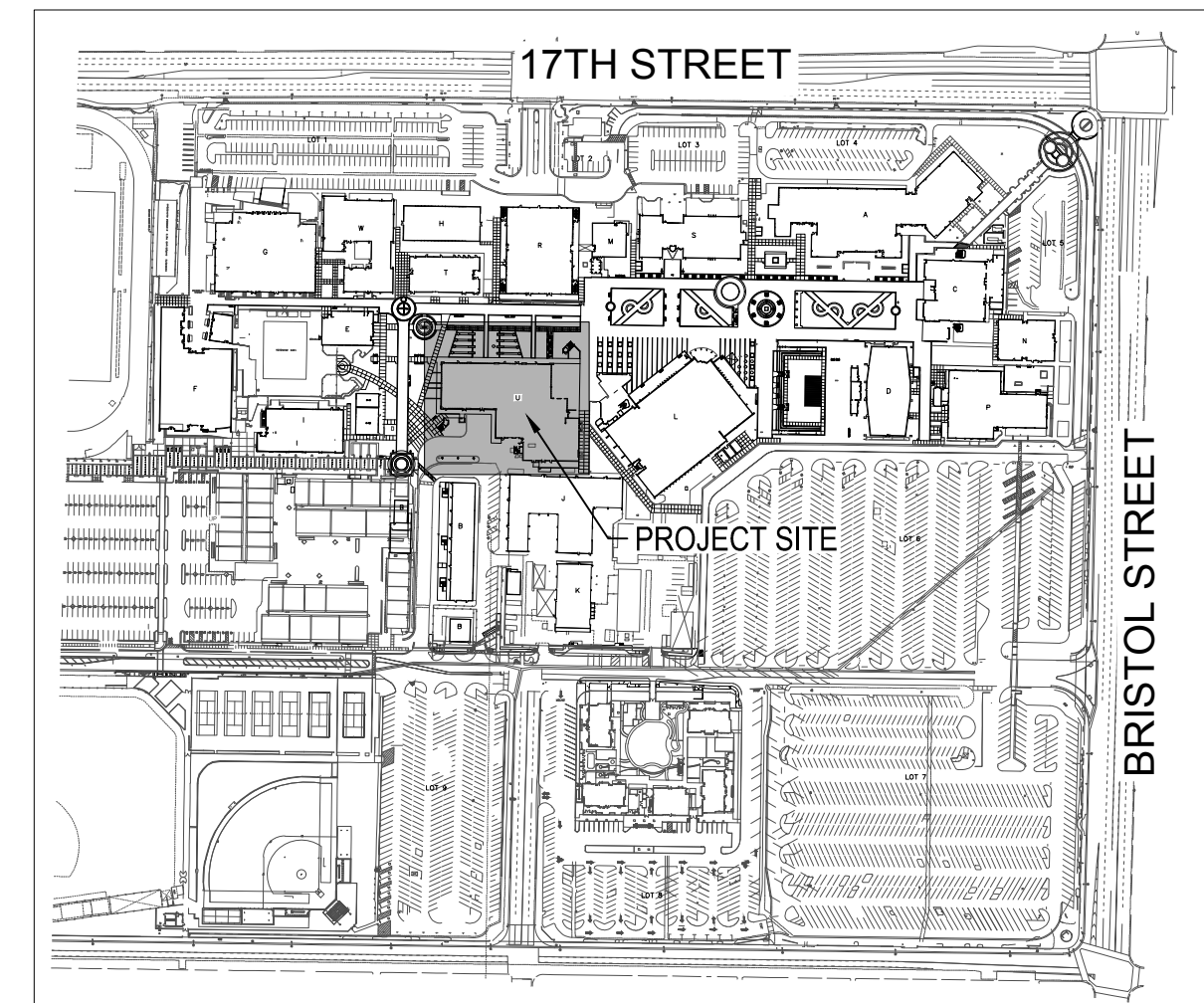


GRADING NOTES:

- EXISTING CONCRETE, BASE ROCK, AND REBAR TO BE REMOVED. SEPARATE DEMOLISHED MATERIAL PER LEED GREEN BUILDING RATING SYSTEM WASTE MANAGEMENT. ALL EDGES TO BE SAWCUT WITH A CLEAN EDGE, OR JOINT TO JOINT, PANEL TO PANEL. FOR BID PURPOSES, CONTRACTOR SHALL ASSUME 6' OF CONCRETE OVER 6" OF BASE CONCRETE AT HARDSCAPE/SIDEWALK.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2013 CBC AND THE CITY OF SANTA ANA GRADING ORDINANCE AND ANY SPECIAL REQUIREMENTS.
- CUT SLOPES SHALL BE NO LONGER THAN 2 HORIZONTAL TO 1 VERTICAL.
- FILLS SHALL BE COMPACTED THROUGHOUT TO A MINIMUM RELATIVE COMPACTION OF 90%. TESTING SHALL BE IN ACCORDANCE WITH ASTM TEST METHODS D1556, D2937, D2922, AND D3017.
- AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND COMPACTED TO 90% RELATIVE DENSITY.
- ANY EXISTING IRRIGATION LINES SHALL BE REMOVED OR CAPPED AT LIMITS OF DEMOLITION AND BACKFILLED PER DIRECTION OF THE OWNER'S REPRESENTATIVE.
- ALL TRENCH BACKFILLS SHALL BE TESTED AND CERTIFIED BY THE SITE GEOTECHNICAL ENGINEER PER THE GRADING CODE.
- THE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST SHALL PERFORM SUFFICIENT TESTS AND INSPECTIONS AND BE AVAILABLE DURING GRADING AND CONSTRUCTION TO VERIFY COMPLIANCE WITH THE PLANS, POLICIZATIONS, AND CODE WITHIN THEIR PURVIEW. ENGINEERED FILL SHALL BE TESTED FOR STRUCTURAL CAPACITY.
- THE PERMITTEE SHALL COMPLY WITH THE GRADING CODE REQUIREMENTS WHEN AN EXCESS OF 5,000 CUBIC YARDS OF EARTH IS MOVED ON PUBLIC ROADWAYS FROM THE SITE OF EARTH GRADING OPERATION.

GENERAL NOTES:

- PROTECT ALL ITEMS OUTSIDE OF DEMOLITION AREA DURING JOHNSON CENTER BUILDING DEMOLITION AND CONSTRUCTION
- REMOVE INTERFERING SECTIONS OF LANDSCAPING AS REQUIRED.
- GRADING OF CLEARED SITE TO BE DETERMINED DURING FINAL SITE IMPORT AFTER LEVELING AND COMPACTION OF ANY EXCAVATIONS. DEMOLITION AREA PERIMETER TO BE GRADED TO JOIN AND MATCH EXISTING ELEVATIONS. REFER TO SHEET C2.00 FOR FINAL GRADING.
- REFER TO ATTACHED AS-BUILT DRAWINGS FOR FURTHER INFORMATION ON BUILDING FOUNDATION REINFORCEMENTS, PILES, AND FOOTING DEPTHS - REFERENCE ONLY.
- REMOVE ALL CAMERAS MOUNTED ON EXISTING JOHNSON CENTER BUILDING AND TURN OVER TO DISTRICT.
- CONTRACTOR WILL KEEP A RECORD OF AS-BUILTS AND PROVIDE AT END OF CERTIFICATION.

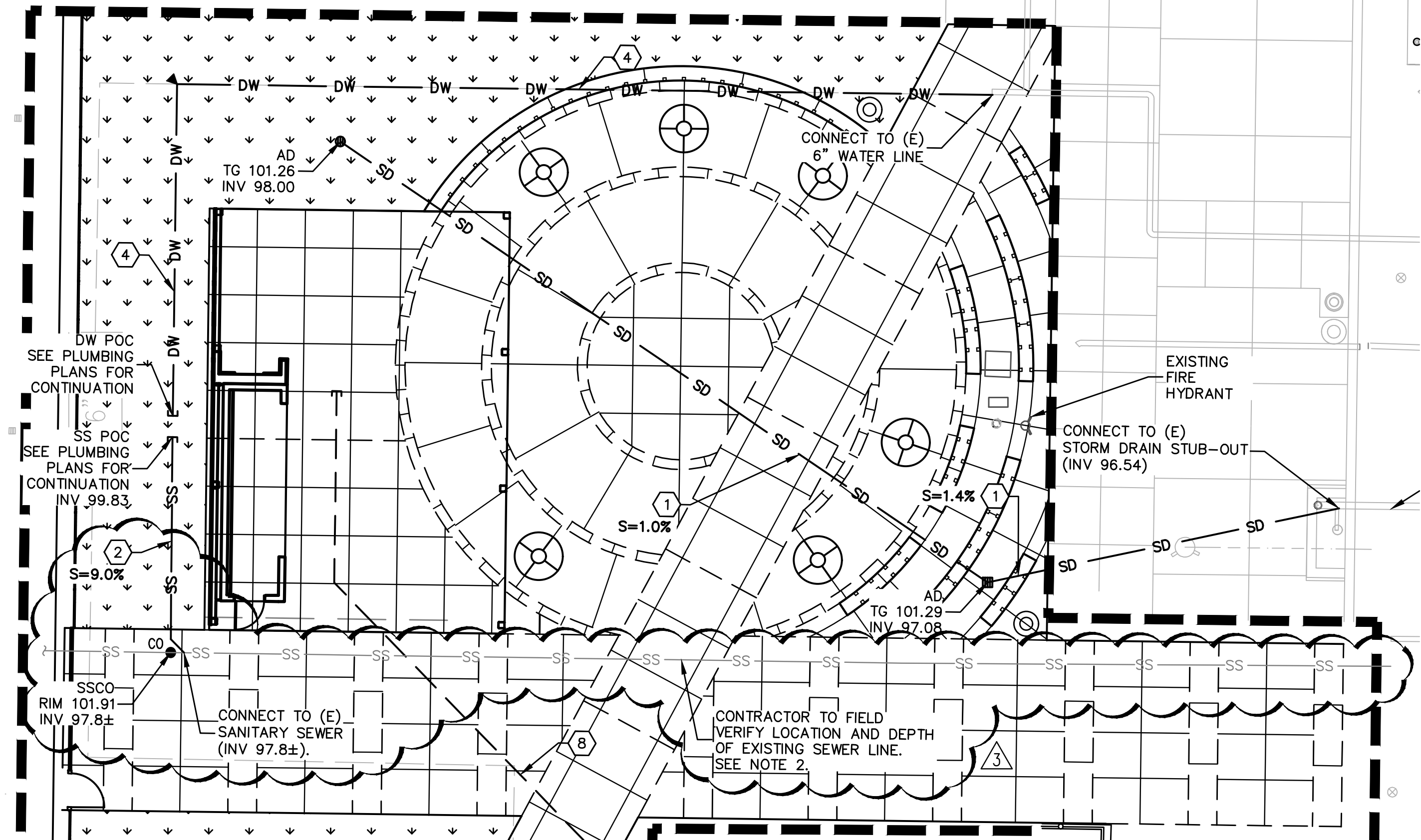


scale 1" = 20' feet  
EXISTING SITE AND DEMOLITION PLAN SCALE 1" = 20'-0" 1

\\User\Public\Documents\A.C. Johnson\_Demolition\_040814.rvt 11/25/2015 9:00:23 AM

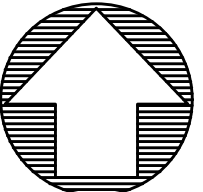


Date	09/24/18	No.	3	Revision	ADDRESS 3
Scale	1"=10'				
Design S.S.					
Drawn J.P.					
Approved ES					
Job No	2018032				



**UTILITY NOTES:**

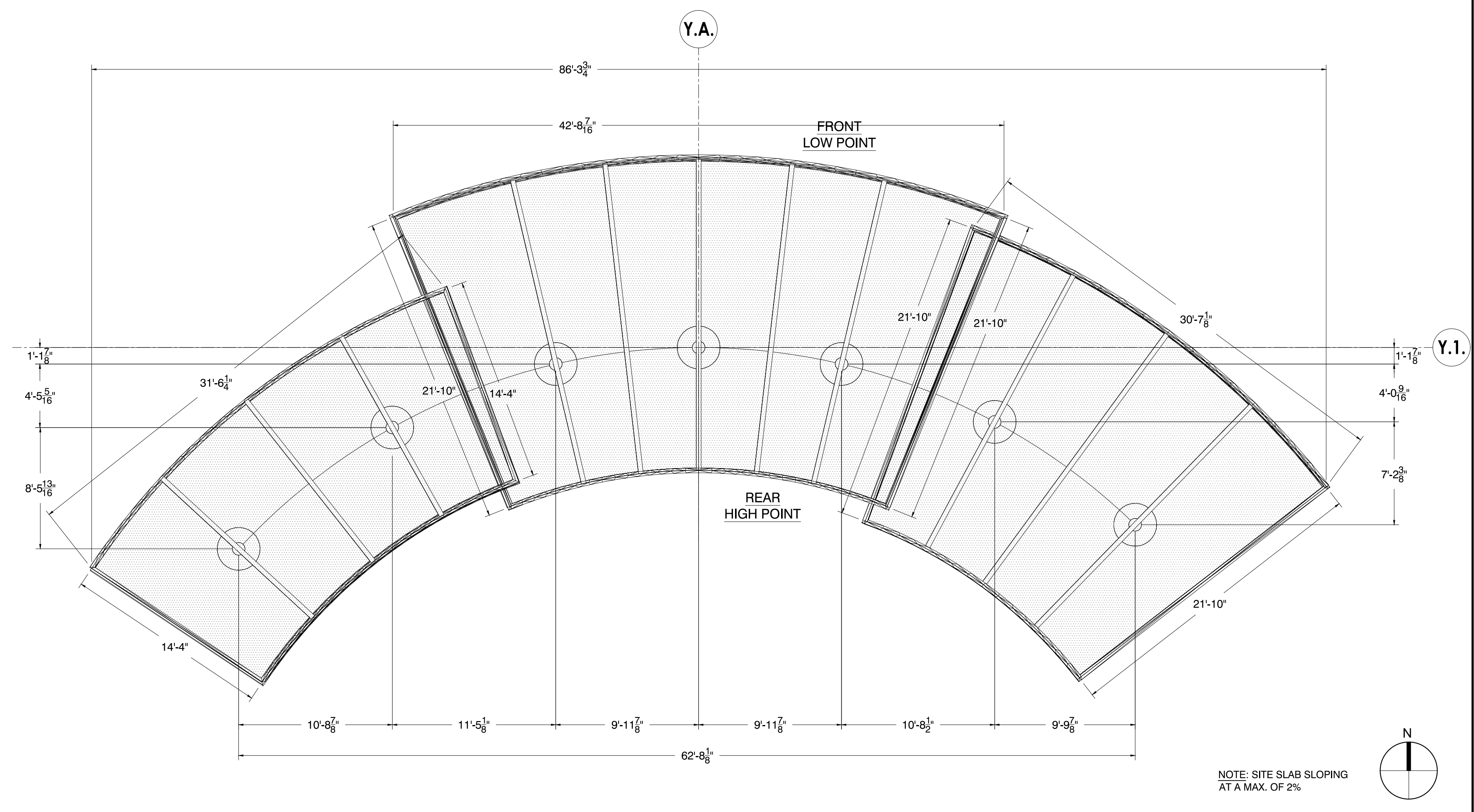
1. CONTRACTOR TO CONTACT USA AT (800) 247-2600 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, UTILITY REMOVAL AND RELOCATION.
2. SANITARY SEWER LOCATION USED IN PREPARING THIS PLAN WAS PROVIDED BY OTHERS. BKF MAKES NO REPRESENTATION AS TO THE ACCURACY OF THIS PLAN.
3. IN THE EVENT THE INFORMATION SHOWN ON THIS PLAN VARIES FROM THE ACTUAL SITE CONDITIONS, BKF SHALL BE NOTIFIED WITHIN 24 HOURS AFTER DISCOVERY OF THE CONFLICT.



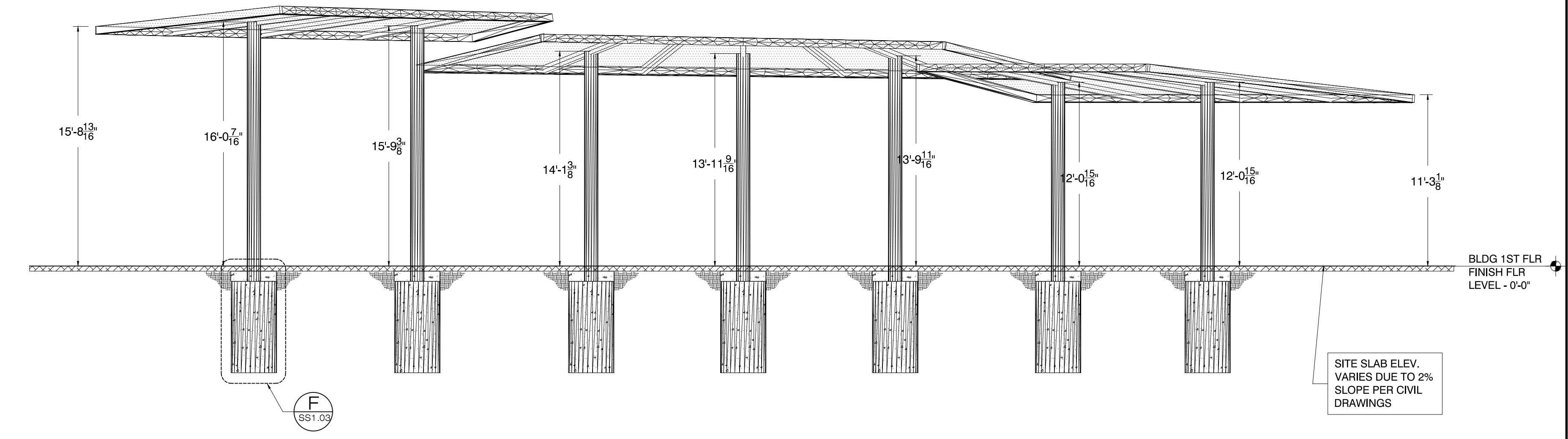
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 PLOT DATE: 09-18-18  
 PLOTTED BY: szac



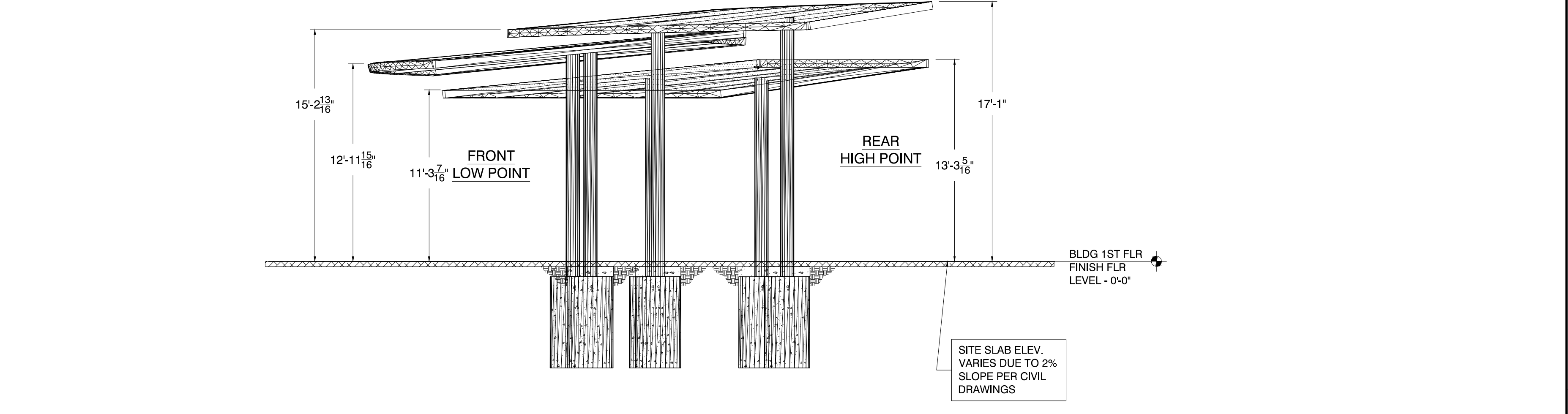
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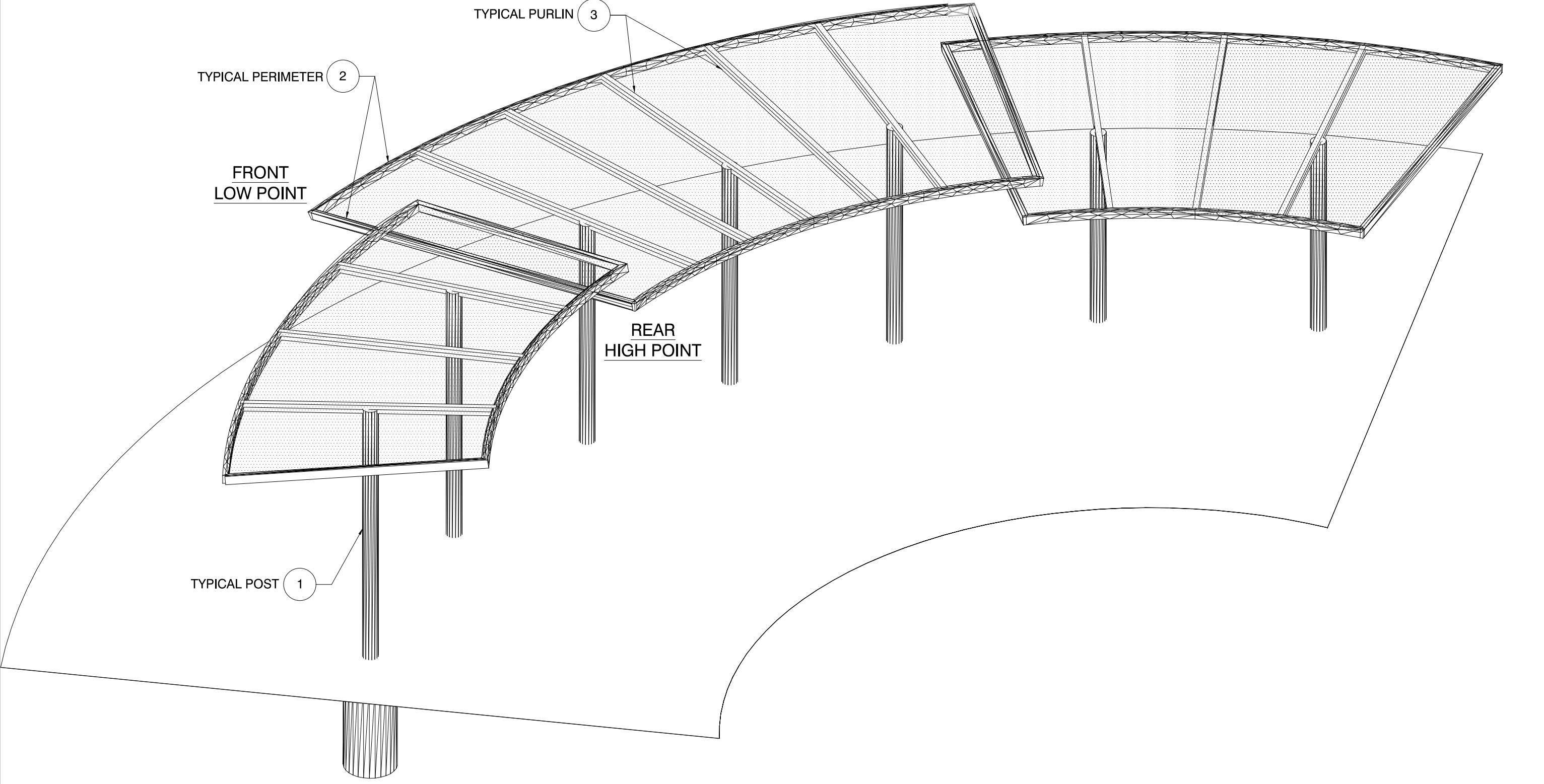
**PLAN VIEW** SCALE 3/16" = 1'-0"



**REAR ELEVATION** SCALE 3/16" = 1'-0"



**SIDE ELEVATION** SCALE 3/16" = 1'-0"



**PERSPECTIVE VIEW** SCALE NTS

**GENERAL NOTES:**

- COVER/FABRIC: FABRIC SHEERFILL II COLOR



**SHEERFILL® V Architectural Membrane**

SHEERFILL® is the trademark for a family of membranes used in permanent structures. The composite is made of fiberglass and polytetrafluoroethylene (PTFE). SHEERFILL products are available in a range of strengths and light transmission levels, providing the user with a choice of membranes to cover virtually any size structure from a full-sized stadium to a relatively small skylight. All SHEERFILL membranes conform to rigid fire and building codes for permanent buildings.

**Typical Properties'**

Property	Value	Method
Coated Fabric Weight (oz./yd. <sup>2</sup> )	29 nominal	ASTM D4851-88
Thickness (mils)	22 nominal	ASTM D4851-88
Breaking Strength (lb./in.) (Strain Rate: 2 in./min.)		ASTM D4851-88
Dry, Warp	520 min avg	
Dry, Fill	590 min avg	
Breaking Strength After Crease Fold (lb./in.)		ASTM D4851-88
Dry, Warp	355 min avg	
Dry, Fill	380 min avg	
Trapezoidal Tear (lb.)		ASTM D4851-88
Warp	35 min avg	
Fill	60 min avg	
Solar Transmittance (%)	17.5 nominal	ASTM E424
Solar Reflectance (%)	72.5 nominal	ASTM E424
Burning Characteristics		
Flame Spread	0 max	ASTM E84
Smoke Generation	0 max	Tunnel Test
Incombustibility of Substrates	Pass	ASTM E136
Fire Resistance of Roof Coverings Burning Brand	Class A	ASTM E108
Flame Resistance	Pass	NFPA 701, Small Scale
Color	White (after exposure to sunlight)	
Reinforcement Construction	Warp B150 2/2, Fill B150 2/3-Count W32 x F23	

**SHEERFILL® V**

Saint-Gobain Performance Plastics  
701 Daniel Webster Highway  
P.O. Box 1137  
Merrimack, NH 03054  
Customer Service: (800) 451-6101  
Tel: (603) 424-9000  
Fax: (603) 424-9012

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AEP-1033-1M-0205-5623

F/N	QTY	U/M	Description:
Tubing			
1	110	Ft.	A500 Grade B HSS 10.750 0.375 (Post)
2	300	Ft.	A500 Grade B HSS 10 x 6 x 0.500 (Perimeter)
3	220	Ft.	A500 Grade B HSS 10 x 6 x 0.500 (Purlin)

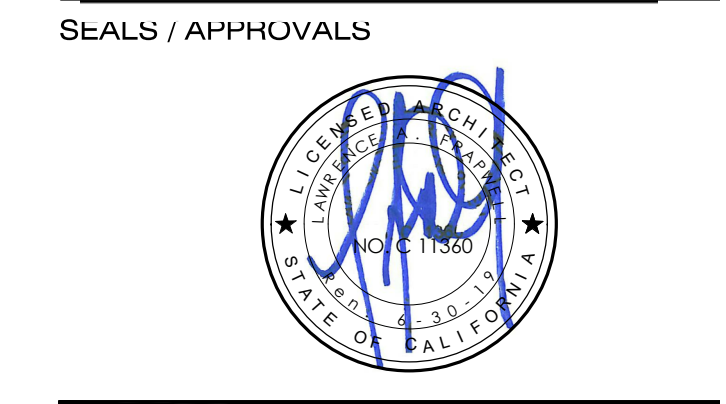


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CONSULTANTS

**EIDE INDUSTRIES, INC.** TENSION Structures.com  
16215 PIMA AVENUE  
CERRITOS, CA 94710  
PHONE: (562) 402-8335  
FAX: (562) 924-2233  
www.eideindustries.com

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FILE: 30-C2  
A# 0 4 - 116810  
AC \_\_\_\_\_ FLS \_\_\_\_\_ SS \_\_\_\_\_  
DATE \_\_\_\_\_

PROJECT TITLE  
**JOHNSON STUDENT CENTER**  
1530 W 17TH ST SANTA ANA CA 92706

**SUBMITTALS**

#	DATE	DESCRIPTION
1	02/15/2018	DSA SUBMITTAL
3	09/24/2018	ADDENDUM 3

PROJECT IDENTIFICATION Project Number \_\_\_\_\_  
THESE DRAWINGS ORIGINALLY CREATED IN AUTODESK REVIT V. 2016 U.D.  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

DRAWN BY \_\_\_\_\_ AD

CHECKED BY \_\_\_\_\_  
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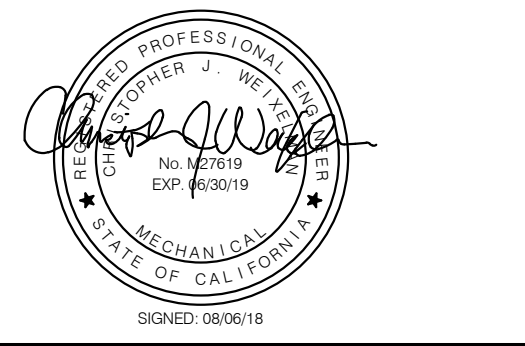
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SHEET TITLE  
**TENSION STRUCTURE CANOPY  
PLAN VIEW, FRONT, SIDE &  
PERSPECTIVE VIEW**

SHEET NUMBER \_\_\_\_\_

**SS1.02.1**





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FILE: 30-C2  
A# 04-116810  
AC FLS SS  
DATE

PROJECT TITLE  
JOHNSON STUDENT CENTER  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS	
#	DESCRIPTION
1	05/18/18 HEALTH DEPT. SUBMITTAL
2	08/13/18 DSA FINAL SUBMITTAL
3	09/24/18 ADDENDUM 3

PROJECT IDENTIFICATION 7411  
THESE DRAWINGS ORIGINALLY CREATED IN AUTODESK REVIT V. 2016  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

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CHECKED BY E. Gomez  
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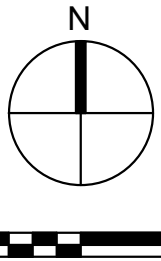
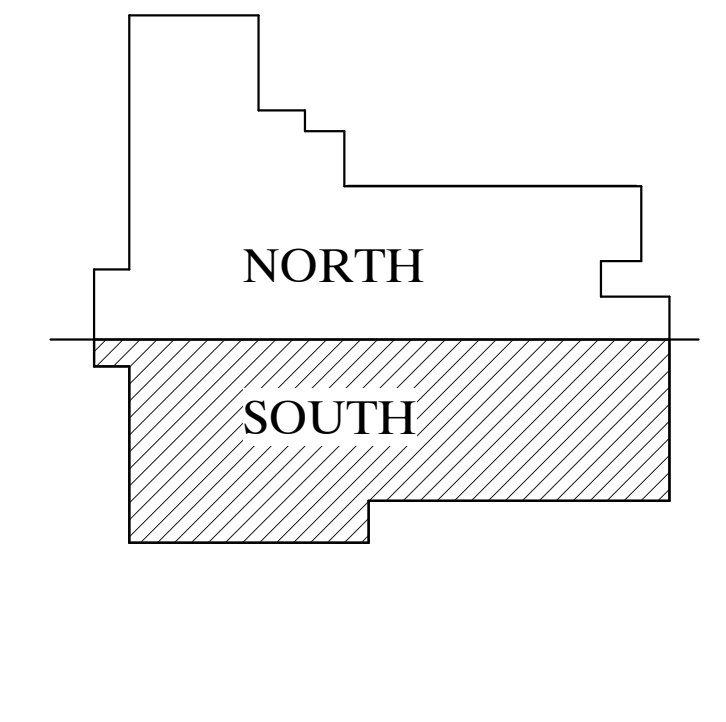
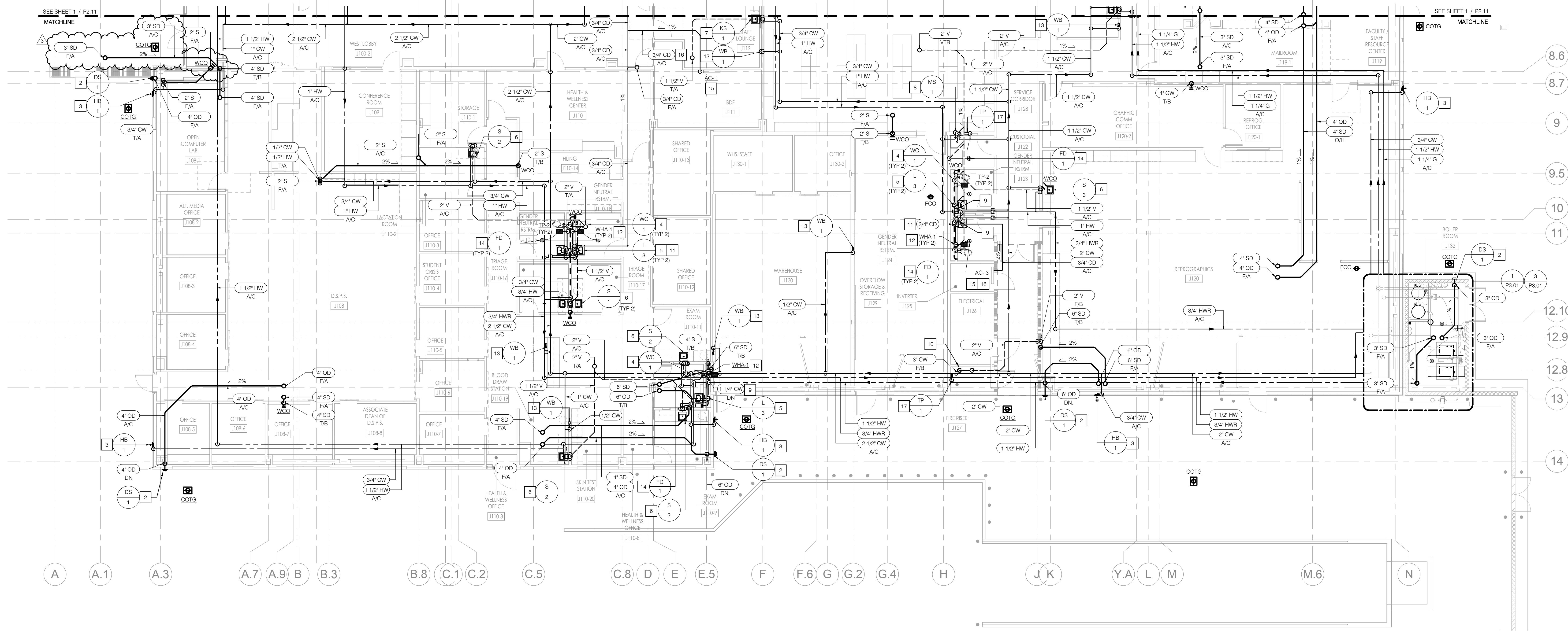
SHEET TITLE  
FIRST FLOOR PLAN - SOUTH

SHEET NUMBER

**P2.12**

100% CONSTRUCTION DOCUMENTS

- NOTES**
- 1 FOR CONTINUATION REFER TO PLUMBING SITE PLAN SHEET P1.01.
  - 2 OVERFLOW DRAIN DISCHARGE TO GRADE. TERMINATE THROUGH WALL WITH DOWNSPOUT NOZZLE (DS-1) @ 18" A.F.F.
  - 3 PROVIDE 3/4" CW DOWN IN WALL WITH FULL-PORT SHUT-OFF VALVE BEHIND ACCESS PANEL. TO SERVE HOSE BIBB (HB-1). REFER TO DETAIL 3/P6.01
  - 4 PROVIDE 4" S DOWN, 2" V UP, 1-1/2" CW TO SERVE WATER CLOSET (WC-1).
  - 5 PROVIDE 2" S DOWN, 1-1/2" V UP, 1/2" CW & 1/2" HW TO SERVE LAVATORY (L-3).
  - 6 PROVIDE 2" S DOWN, 1-1/2" V UP, 1/2" CW & 1/2" HW TO SERVE SINK (S-1/S-2/S-3).
  - 7 PROVIDE 2" S DOWN, 1-1/2" V UP, 1/2" CW & 1/2" HW TO SERVE KITCHEN SINK (KS-1).
  - 8 PROVIDE 3" S DOWN, 2" V UP, 3/4" CW & 3/4" HW TO SERVE MOP SINK (MS-1). PROVIDE FULL-PORT SHUT-OFF VALVES BEHIND ACCESS PANEL.
  - 9 PROVIDE 1-1/2" CW DOWN IN WALL TO FULL SIZE HEADER AND 1/2" HW DOWN IN WALL TO SERVE LAVATORY (L-3). PROVIDE FULL-PORT SHUT-OFF VALVES BEHIND ACCESS.
  - 10 HUB DRAIN FOR FIRE SPRINKLER SYSTEM DISCHARGE. REFER TO DETAIL 5/P6.02.
  - 11 ROUTE 3/4" CD DOWN IN WALL TO LAVATORY TAILPIPE PIPE CONNECTOR. REFER TO DETAIL 4/P6.03.
  - 12 PROVIDE WATER HAMMER ARRESTOR (WHA-1) BEHIND ACCESS PANEL.
  - 13 PROVIDE 1/2" CW DOWN IN WALL TO SERVE WATER BOX (WB-1). PROVIDE SUPPLY TUBING LINES FROM WATER BOX TO REFRIGERATOR(S) AND ICE MAKER(S).
  - 14 PROVIDE 2" S DOWN AND 1-1/2" V UP TO SERVE FLOOR DRAIN (FD-1). ROUTE 1/2" TP BELOW FLOOR FROM TRAP PRIMER ASSEMBLY. REFER TO DETAIL 1 & 2 ON P6.01.
  - 15 MECHANICAL EQUIPMENT (NOT IN PLUMBING SCOPE) REFER TO MECHANICAL DRAWINGS FOR UNIT DESCRIPTION AND INFORMATION.
  - 16 ROUTE 3/4" CD FROM CONDENSATE PUMPS OUTLET AND RUN ABOVE CEILING TOWARDS RECEPTOR WITH 1% MIN. SLOPE. CONDENSATE PUMP SHALL BE FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY PLUMBER. CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. AVOID RUNNING OVER ELECTRICAL AND TELECOM ROOMS. REFER TO DETAIL 5/P6.03.
  - 17 PROVIDE 1/2" CW TO SERVE ELECTRONIC TRAP PRIMER (TP-1).



FIRST FLOOR PLAN - SOUTH SCALE 1/8" = 1'-0" 1

P2S: 7411

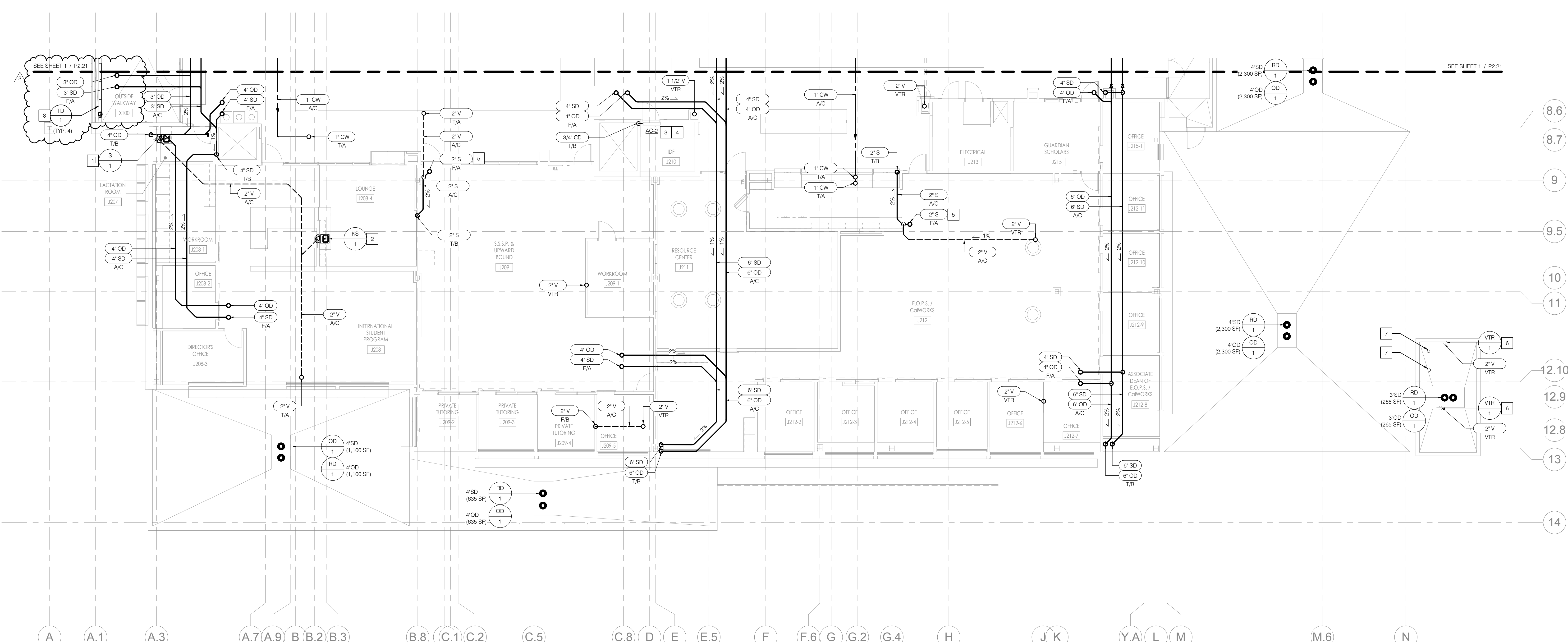
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**GENERAL NOTES**

- FOR ROOF DRAIN/OVERFLOW DRAIN INSTALLATION REFER TO ARCHITECTURAL DETAILS 1/A9.30 & 2/A9.30.
- FOR VENT PIPE FLASHING AND PIPE FLASHING THROUGH ROOF REFER TO ARCHITECTURAL DETAILS 3/A9.30 & 8/A9.30.
- ROOF DRAINAGE IS BASED ON 3"HR RAINFALL RATE.

**NOTES**

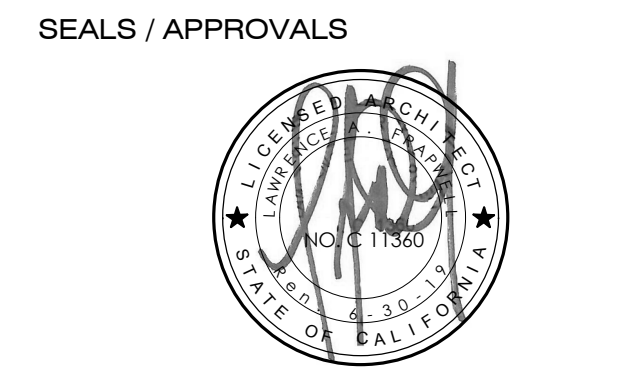
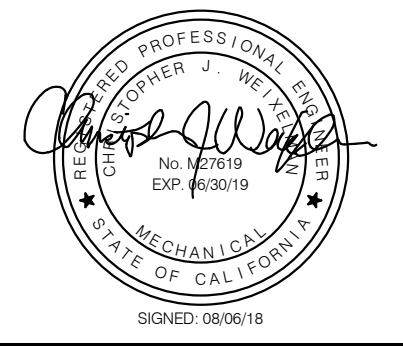
- PROVIDE 2" DOWN, 1-1/2" UP AND 1/2" CW/HW FROM BELOW IN WALL WITH FULL-PORT SHUT-OFF VALVES BEHIND ACCESS PANEL TO SERVE SINK (S-1).
- PROVIDE 2" DOWN, 1-1/2" UP AND 1/2" CW/HW FROM BELOW IN WALL WITH FULL-PORT SHUT-OFF VALVES BEHIND ACCESS PANEL TO SERVE KITCHEN SINK (KS-1).
- MECHANICAL EQUIPMENT (NOT IN PLUMBING SCOPE) REFER TO MECHANICAL DRAWINGS FOR UNIT DESCRIPTION AND INFORMATION.
- ROUTE 3/4" CD FROM CONDENSATE PUMPS OUTLET AND RUN ABOVE CEILING TOWARDS RECEPTOR WITH 1% MIN. SLOPE. CONDENSATE PUMP SHALL BE FURNISHED BY MECHANICAL CONTRACTOR. INSTALLED BY PLUMBING CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. REFER TO DETAIL 5/P6.03.
- 2" WASTE FROM ABOVE SERVING ROOF RECEPTOR (RR-1).
- VENT THROUGH ROOF. REFER TO DETAIL 6/P6.01.
- INTAKE AND EXHAUST VENT PIPES THRU ROOF. SIZE 3" PVC. PROVIDE CONCENTRIC VENT KIT TERMINATION FITTING BRADFORD MODEL 298-44559-1 FOR A SINGLE ROOF PENETRATION PER DETAIL 2/P6.04.
- PROVIDE TRENCH DRAIN CHANNELS AT EDGE OF BALCONY. COORDINATE EXACT LENGTH WITH ARCHITECTURAL DRAWING 13/A6.10. REFER TO P2.12 FOR DRAIN OUTLET LOCATIONS FROM DRAIN CHANNELS.



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PROJECT TITLE  
JOHNSON STUDENT CENTER  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS	
#	DATE DESCRIPTION
1	05/18/18 HEALTH DEPT. SUBMITTAL
2	08/13/18 DSA FINAL SUBMITTAL
3	09/24/18 ADDENDUM 3

PROJECT IDENTIFICATION 7411  
THESE DRAWINGS ORIGINALLY CREATED IN AUTODESK REVIT V. 2016  
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CHECKED BY E. Cometz  
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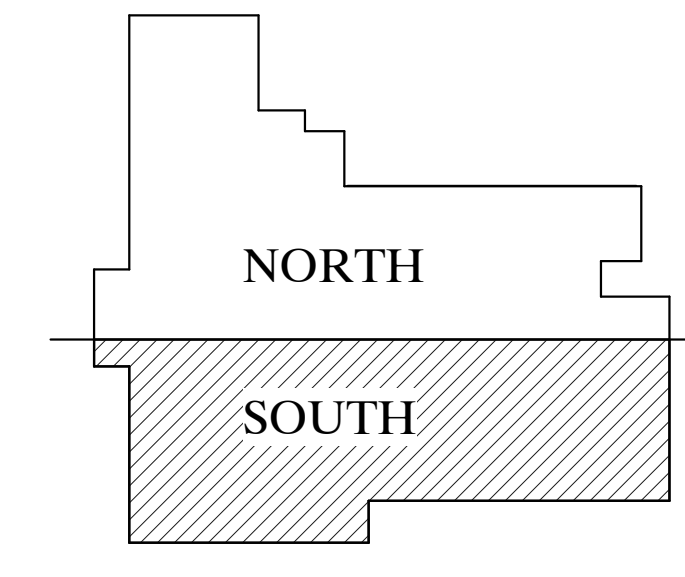
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SHEET TITLE  
SECOND FLOOR PLAN - SOUTH

SHEET NUMBER

P2.22

100% CONSTRUCTION DOCUMENTS



SECOND FLOOR PLAN - SOUTH SCALE 1/8" = 1'-0" 1

P2S: 7411





### LIGHTING CONTROL SCHEDULE - LEVEL 01 EMERGENCY

DEVICE ID	SWITCH ID	NOTES	DEVICE	ROOM	ROOM NAME	OCC SENSOR	DAYLIGHTING ZONE	SWITCHING TYPE	PANEL	CIRCUIT
1	a		EL	J101	THE SPOT	Y	Y	DIMMING	INV1	1
2	h		EL	J101	THE SPOT	Y	N	DIMMING	INV1	1
3	g		EL	J101	THE SPOT	Y	Y	DIMMING	INV1	1
4	a		EL	J101	THE SPOT	Y	N	DIMMING	INV1	1
5	c		EL	J102	OFFICE OF STUDENT LIFE	Y	Y	DIMMING	INV1	1
6	a		EL	J102-3	WORKROOM	Y	N	DIMMING	INV1	1
7	a		EL	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	INV1	1
8	d	1	EL	J107	WOMENS RESTROOM	Y	N	DIMMING	INV1	1
9	c	1	EL	J106	MENS RESTROOM	Y	N	DIMMING	INV1	1
10	d		EL	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	INV1	1
11	c	5	EL	J100-2	WEST LOBBY	Y	Y	DIMMING	INV1	1
12	a	5	EL	J100-2	WEST LOBBY	Y	N	DIMMING	INV1	1
13	a	5	EL	J110	HEALTH & WELLNESS CENTER	Y	N	DIMMING	INV1	2
14	a		EL	J108	D.S.P.S.	Y	N	DIMMING	INV1	2
15	a		EL	J108	D.S.P.S.	Y	N	DIMMING	INV1	2
16	a		EL	J110-1	HEALTH & WELLNESS CENTER	Y	N	DIMMING	INV1	2
17	c	3	EL			Y	N	ON/OFF	INV1	1
18	a		EL	J129	OVERFLOW STORAGE & RECEIVING	Y	N	DIMMING	INV1	2
19	d		EL	J128	SERVICE CORRIDOR	Y	N	DIMMING	INV1	2
20	a		EL	J120	REPROGRAPHICS	Y	N	DIMMING	INV1	2
21	b		EL	J120	REPROGRAPHICS	Y	N	DIMMING	INV1	2
22	d		EL	J120-2	GRAPHIC COMM OFFICE	Y	N	DIMMING	INV1	2
23	d	2	EL	J119	FACULTY / STAFF RESOURCE CENTER	Y	Y	DIMMING	INV1	2
24	c	2	EL	J119-1	MAILROOM	Y	N	DIMMING	INV1	2
25	h		EL	J117	CAMPUS STORE	Y	N	DIMMING	INV1	1
26	j		EL	J117	CAMPUS STORE	Y	N	DIMMING	INV1	1
27	i		EL	J117	CAMPUS STORE	Y	Y	DIMMING	INV1	1
28	b		EL	J117	CAMPUS STORE	Y	Y	DIMMING	INV1	1
29	b		EL	J118	COFFEE/JUICE BAR	Y	Y	DIMMING	INV1	1
30	a		EL	J118-2	COFFEE/JUICE BAR	Y	Y	DIMMING	INV1	1
31	a		EL	J118-2	COFFEE/JUICE BAR	Y	N	DIMMING	INV1	1
32	g	2	EL	J117	STORE OFFICES	Y	N	DIMMING	INV1	1
33	b		EL	J116	GRAB-N-GO	Y	Y	DIMMING	INV1	1
34	b	5	EL	J100-1	NORTH LOBBY	Y	N	DIMMING	INV1	1
35	a	5	EL	J100-1	NORTH LOBBY	Y	N	DIMMING	INV1	1
36	a	5	EL	J100-1	NORTH LOBBY	Y	Y	DIMMING	INV1	1
37	a	5	EL	J100-1	NORTH LOBBY	Y	N	DIMMING	INV1	1
38	g		EL	J101-2	TEXTBOOK AREA	Y	N	DIMMING	INV1	1
39	b		EL	J130	WAREHOUSE	Y	N	DIMMING	INV1	2
40	a		EL	ELEV. 2	ELEVATOR 2	Y	N	ON/OFF	INV1	1
41	a		EL			Y	N	DIMMING	INV1	1

#### GENERAL NOTE:

- VERIFY TIME CLOCK SCHEDULE WITH CLIENT PRIOR TO PROGRAMMING.
  - CONTROLLED ZONES WITHIN ROOMS DO NOT DETERMINE BUTTONS ON SWITCHES. NUMBER OF BUTTONS ARE DETERMINED BY PROGRAMMING CONFIGURATION OF THESE ZONES.
  - PROVIDE ENERGY SAVI NODES QSN-2116-S FOR CONTROL OF EMERGENCY LIGHTS. COMBINE (4) EL DEVICES SHOWN ON PLAN TO (1) QSN-2116-S DEVICE. PROVIDE LUT-ELI FOR EMERGENCY LIGHTING INTERPHASE. INSTALL PER MANUFACTURER REQUIREMENTS. REFER TO DETAIL 1.6055.
- NOTES:
- LIGHTS SHALL TURN ON AUTOMATICALLY WHEN OCCUPANT IS DETECTED. OCCUPANCY SENSOR SHALL TURN LIGHTS OFF 15 MINUTES AFTER NOT DETECTING AN OCCUPANT.
  - LIGHTS SHALL BE TURNED ON MANUALLY. OCCUPANCY SENSOR SHALL TURN LIGHTS OFF 15 MINUTES AFTER NOT DETECTING AN OCCUPANT.
  - LIGHTS SHALL BE TURNED ON AND OFF MANUALLY.
  - SITE LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL. FIXTURES OVER 30W, AND FIXTURES MOUNTED 24 FEET OR LESS ABOVE GROUND SHALL BE EQUIPPED WITH MOTION SENSING.
  - FIXTURES IN LOBBY AND CORRIDORS SHALL BE CONTROLLED VIA TIME CLOCK. LIGHTS SHALL BE ON MONDAY-FRIDAY 7AM-6PM. AFTER 6PM LIGHTS SHALL TURN ON AUTOMATICALLY WHEN OCCUPANT IS DETECTED. OCCUPANCY SENSOR SHALL TURN LIGHTS OFF 15 MINUTES AFTER NOT DETECTING AN OCCUPANT.
  - EXTERIOR FIXTURES MOUNTED ON BUILDING SHALL BE CONTROLLED VIA TIME CLOCK. LIGHTS SHALL TURN ON AT 6PM, TURN OFF AT 7AM ALL DAYS OF THE WEEK.
  - PROVIDE TOUCHPAD TO ALLOW FOR MULTIPLE SCENES. FINAL PROGRAMMING SHALL BE DETERMINED BY OWNER.
  - DIMMING RELAYS FOR EXTERIOR SITE LIGHTING SHALL BE LOCATED IN FIRST FLOOR ELECTRICAL ROOM J129.

#### LIGHTING CONTROL FOOTCANDLE AVERAGE

SPACE DESCRIPTION	AVERAGE FOOT CANDLE LEVEL (TASK ILLUMINANCE)	REMARKS
CLASSROOMS	30fc	SEE NOTE 1
CONFERENCE ROOMS	35fc	SEE NOTE 1
BREAK AREAS	25fc	SEE NOTE 1
LABS	50fc	SEE NOTE 1
OPEN OFFICES	35fc	SEE NOTE 1
PRIVATE OFFICES	35fc	SEE NOTE 1
SERVER ROOMS	35fc	SEE NOTE 2
CORRIDOR & VESTIBULE	15fc	SEE NOTE 1
UTILITY & RESTROOMS	25fc	SEE NOTE 2

#### GENERAL NOTES:

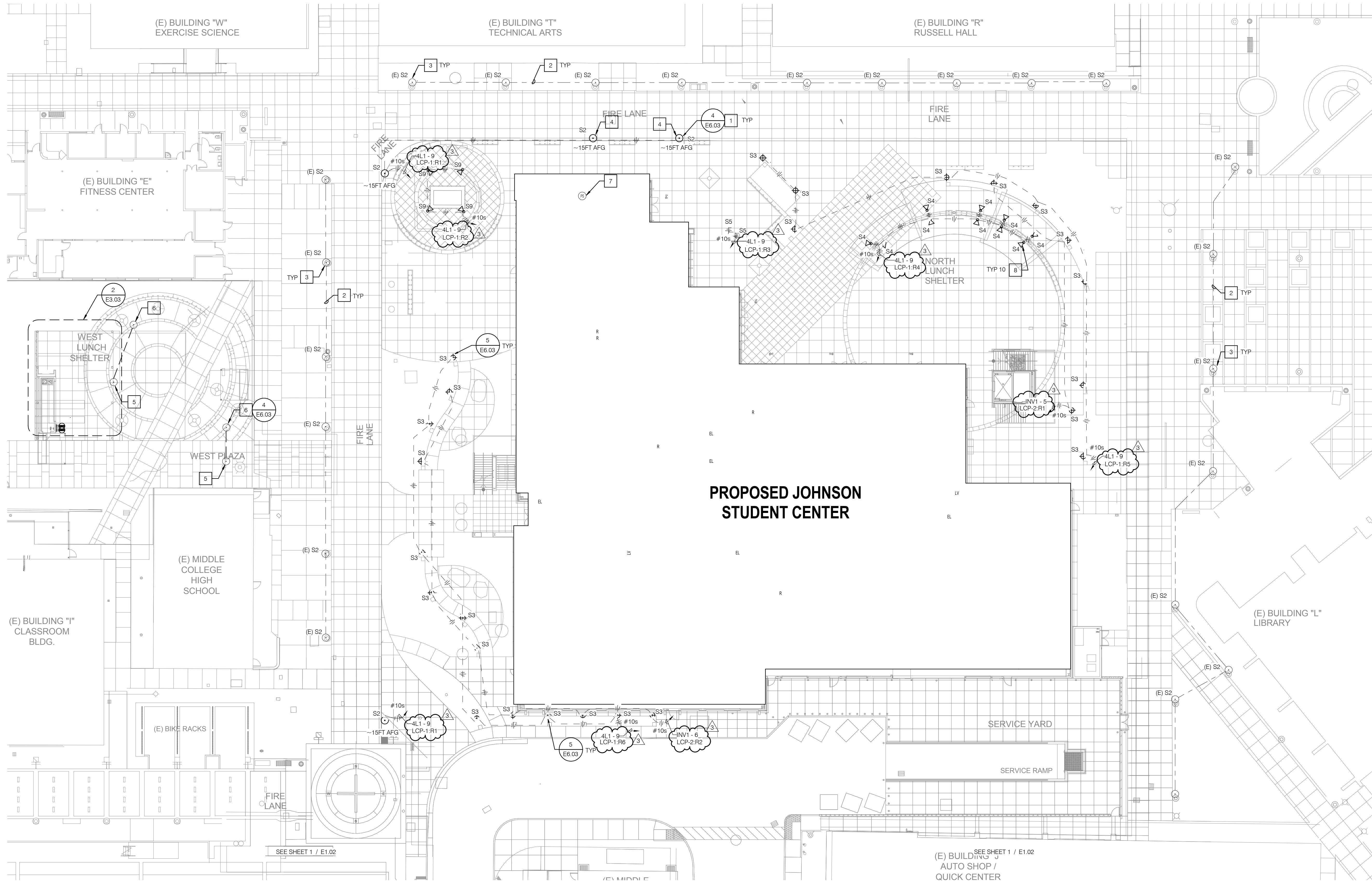
- AT WORK PLANE.
- AT FLOOR LEVEL.

### LIGHTING CONTROL SCHEDULE - LEVEL 01

DEVICE ID	SWITCH ID	NOTES	ROOM	ROOM NAME	OCC SENSOR	DAYLIGHTING ZONE	SWITCHING TYPE	PANEL	CIRCUIT
1-QSN	c		J101	THE SPOT	Y	Y	DIMMING	4L1	1
1-QSN	a		J101	THE SPOT	Y	Y	DIMMING	4L1	1
1-QSN	e		J101	THE SPOT	Y	Y	DIMMING	4L1	1
1-QSN	h		J101	THE SPOT	Y	Y	DIMMING	4L1	1
2-QSN	g		J101	THE SPOT	Y	Y	DIMMING	4L1	1
2-QSN	f		J101	THE SPOT	Y	N	DIMMING	4L1	1
2-QSN	h		J101	THE SPOT	Y	N	DIMMING	4L1	1
2-QSN	d		J101	THE SPOT	Y	N	DIMMING	4L1	1
3-QSN	c	2	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	4L1	1
3-QSN	b	2	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	4L1	1
3-QSN	a	2	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	4L1	1
3-QSN	d	1	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	4L1	1
4-QSN	c	2	J102	OFFICE OF STUDENT LIFE	Y	N	DIMMING	4L1	1
4-QSN	a		J102	OFFICE OF STUDENT LIFE	Y	N	DIMMING	4L1	1
4-QSN	b		J102	OFFICE OF STUDENT LIFE	Y	N	DIMMING	4L1	1
4-QSN	d	2	J102	OFFICE OF STUDENT LIFE	Y	N	DIMMING	4L1	1
5-QSN	d	2	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	4L1	1
5-QSN	a	1	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	4L1	1
5-QSN	b	1	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	4L1	1
5-QSN	c	1	J103	ASSOCIATED STUDENT GOVERNMENT	Y	N	DIMMING	4L1	1
6-QSN	a	2	J104	CONFERENCE ROOM	Y	N	DIMMING	4L1	1
6-QSN	b	2	J104	CONFERENCE ROOM	Y	N	DIMMING	4L1	1
6-QSN	d	2	J104	CONFERENCE ROOM	Y	N	DIMMING	4L1	1
7-QSN	b	5	J100-1	NORTH LOBBY	Y	N	DIMMING	4L1	1
7-QSN	a	5	J100-1	NORTH LOBBY	Y	N	DIMMING	4L1	1
7-QSN	c	5	J100-1	NORTH LOBBY	Y	N	DIMMING	4L1	1
8-QSN	a		J116	GRAB-N-GO	Y	Y	DIMMING	4L1	3
8-QSN	b		J116	GRAB-N-GO	Y	Y	DIMMING	4L1	3
8-QSN	b		J116	GRAB-N-GO	Y	N	DIMMING	4L1	3
8-QSN	a		J116	GRAB-N-GO	Y	N	DIMMING	4L1	3
9-QSN	a	2	J117	STORE OFFICES	Y	N	DIMMING	4L1	3
9-QSN	d	2	J117	STORE OFFICES	Y	N	DIMMING	4L1	3
9-QSN	c	1	J117	STORE OFFICES	Y	N	DIMMING	4L1	3
9-QSN	b	1	J117	STORE OFFICES	Y	N	DIMMING	4L1	3
10-QSN	b		J117	CAMPUS STORE	Y	Y	DIMMING	4L1	3
10-QSN	c		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
10-QSN	d		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
11-QSN	d		J117	CAMPUS STORE	Y	Y	DIMMING	4L1	3
11-QSN	f		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
11-QSN	e		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
12-QSN	b	2	J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
12-QSN	c	3	J117	CAMPUS STORE	Y	N	ON/OFF	4L1	3
12-QSN	g		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
12-QSN	a		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
13-QSN	j		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
13-QSN	i		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
13-QSN	e		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
13-QSN	h		J117	CAMPUS STORE	Y	N	DIMMING	4L1	3
14-QSN	a	2	J118	COFFEE/JUICE BAR	Y	N	DIMMING	4L1	3
14-QSN	f		J118	COFFEE/JUICE BAR	Y	N	DIMMING	4L1	3
14-QSN	b		J118	COFFEE/JUICE BAR	Y	N	DIMMING	4L1	3
14-QSN	e		J118	COFFEE/JUICE BAR	Y	N	DIMMING	4L1	3
15-QSN	c		J118	COFFEE/JUICE BAR	Y	Y	DIMMING	4L1	3
15-QSN	a		J118	COFFEE/JUICE BAR	Y	Y	DIMMING	4L1	3
16-QSN	c	2	J128	SERVICE CORRIDOR	Y	N	DIMMING	4L1	7
16-QSN	d	2	J128	SERVICE CORRIDOR	Y	Y	DIMMING	4L1	7
16-QSN	b	2	J128	SERVICE CORRIDOR	Y	N	DIMMING	4L1	7
16-QSN	a	2	J128	SERVICE CORRIDOR	Y	N	DIMMING	4L1	7
17-QSN	a	5	J100-2	WEST LOBBY	Y	N	DIMMING	4L1	1
17-QSN	b	5	J100-2	WEST LOBBY	Y	N	DIMMING	4L1	1
17-QSN	c	5	J100-2	WEST LOBBY	Y	Y	DIMMING	4L1	1
17-QSN	d	5	J100-2	WEST LOBBY	Y	N	DIMMING	4L1	1
18-QSN	a	2	J108-1	OPEN COMPUTER LAB	Y	Y	DIMMING	4L1	5
18-QSN	d	2	J108-1	OPEN COMPUTER LAB	Y	N	DIMMING	4L1	5
18-QSN	c	2	J108-1	OPEN COMPUTER LAB	Y	N	DIMMING	4L1	5
18-QSN	b	2	J108-1	OPEN COMPUTER LAB	Y	N	DIMMING	4L1	5
19-QSN	a	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
19-QSN	b	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
19-QSN	c	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
19-QSN	d	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
20-QSN	a	2	J109	CONFERENCE ROOM	Y	N	DIMMING	4L1	5
20-QSN	b	2	J109	CONFERENCE ROOM	Y	N	DIMMING	4L1	5
21-QSN	d	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
21-QSN	c	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
21-QSN	b	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
21-QSN	a	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
22-QSN	a	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
22-QSN	b	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
22-QSN	c	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
22-QSN	d	2	J108	D.S.P.S.	Y	N	DIMMING	4L1	5
23-QSN	c	2	J110-3	OFFICE	Y	N	DIMMING	4L1	5
23-QSN	d	2	J110-3	OFFICE	Y	N	DIMMING	4L1	5
23-QSN	b	2	J110-3	OFFICE	Y	N	DIMMING	4L1	5
23-QSN	a	5	J110-3	OFFICE	Y	N	DIMMING	4L1	5
24-QSN	a	1	J110-15	GENDER NEUTRAL RSTRM.	Y	N	DIMMING	4L1	5
24-QSN	b	2	J110-15	GENDER NEUTRAL RSTRM.	Y	N	DIMMING	4L1	5
24-QSN	c	2	J110-15	GENDER NEUTRAL RSTRM.	Y	N	DIMMING	4L1	5
24-QSN	d	1	J110-15	GENDER NEUTRAL RSTRM.	Y	N	DIMMING	4L1	5
25-QSN	a		J120	REPROGRAPHICS	Y	N	DIMMING	4L1	7
25-QSN	b		J120	REPROGRAPHICS	Y	N	DIMMING	4L1	7
25-QSN	c		J120	REPROGRAPHICS	Y	N	DIMMING	4L1	7
25-QSN	d		J120	REPROGRAPHICS	Y	N	DIMMING	4L1	7
26-QSN	a	2	J130	WAREHOUSE	Y	N	DIMMING	4L1	5
26-QSN	b	2	J130	WAREHOUSE	Y	N	DIMMING	4L1	5
26-QSN	c	2	J130	WAREHOUSE	Y	N	DIMMING	4L1	5
26-QSN	d	1	J130	WAREHOUSE	Y	N	DIMMING	4L1	5
27-QSN	a	2	J130	WAREHOUSE	Y	N	DIMMING	4L1	7
27-QSN	b	2	J130	WAREHOUSE	Y	N	DIMMING	4L1	7
27-QSN	c	2	J130	WAREHOUSE	Y	N	DIMMING	4L1	7
27-QSN	d	1	J130	WAREHOUSE	Y	N	DIMMING	4L1	7
28-QSN	d	3	J129	OVERFLOW STORAGE & RECEIVING	N	N	ON/OFF	4L1	7
28-QSN	c	3	J129	OVERFLOW STORAGE & RECEIVING	N	N	ON/OFF	4L1	7
28-QSN	b		J129	OVERFLOW STORAGE & RECEIVING	Y	N	DIMMING	4L1	7
28-QSN	a	2	J129	OVERFLOW STORAGE & RECEIVING	Y	N	DIMMING	4L1	7
29-QSN	a		J123	GENDER NEUTRAL RSTRM.	Y	N	DIMMING	4L1	7
29-QSN	d	1	J123	GENDER NEUTRAL RSTRM.	Y	N	DIMMING	4L1	7
29-QSN	c	2	J123	GENDER NEUTRAL RSTRM.	Y	N	DIMMING	4L1	7
29-QSN	b	2	J123	GENDER NEUTRAL					







**GENERAL NOTES**

1. PROVIDE WATTSTOPPER #LMPC CONTROL PANEL IN FIRST FLOOR ELECTRICAL ROOM TO SERVE EXTERIOR LIGHTING. REFER TO SHEET E2.02 FOR ADDITIONAL INFORMATION.

**NOTES**

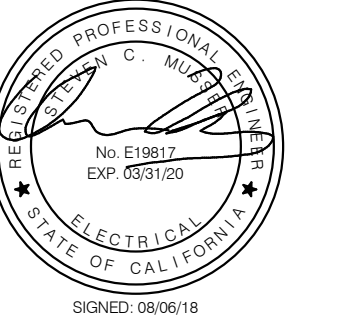
1. POST FIXTURE SHALL BE MOUNTED TO CAMPUS STANDARD HEIGHT AND PER ARCHITECTURAL COORDINATION. ACCOUNT FOR 15-20 FOOT HIGH POST. ACCOMMODATE 0-10V DIMMING CONTROL WIRING TO EXTERIOR LIGHTING CONTROL SYSTEM.
2. PROTECT EXISTING CIRCUITING AND RECONNECT IF DAMAGED.
3. EXISTING LIGHT FIXTURE SHALL REMAIN AND BE PROTECT IN PLACE.
4. PROVIDE ADDITIONAL 1" TO LIGHT POLE FROM BDF TO ALLOW FOR CONNECTION OF CAMERA AND WIRELESS ACCESS POINT. REFER TO LOW VOLTAGE DRAWINGS FOR ADDITIONAL INFORMATION.
5. EXISTING LIGHT AND POLE SHALL BE CAREFULLY DISCONNECTED AND RELOCATED.
6. NEW LOCATION OF EXISTING LIGHT AND POLE PROVIDE NEW BASE, COVER, AND ANCHOR BOLTS. EXTEND EXISTING ELECTRICAL SERVICE TO NEW LOCATION.
7. PROVIDE PHOTOCELL ON NORTH END OF ROOF FOR EXTERIOR LIGHTING CONTROL.
8. COORDINATION SHALL COORDINATE ROUTING OF CONDUIT IN POLE STRUCTURE TO ALIGN WITH RECESSED JUNCTION BOX FOR LIGHT FIXTURE INSTALLATION.

**CONSULTANTS**

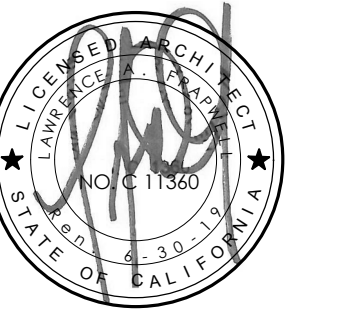


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**SEALS / APPROVALS**



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DIV. OF THE STATE ARCHITECT  
FILE: 30-C2  
A# 04-116810

AC FLS SS

DATE

**PROJECT TITLE**

**JOHNSON STUDENT CENTER  
INCREMENT 2**  
1530 W 17TH ST SANTA ANA, CA 92706



**SUBMITTALS**

#	DATE	DESCRIPTION
05/18/18		HEALTH DEPT. SUBMITTAL
08/13/18		DSA FINAL SUBMITTAL
09/24/18		ADDENDUM #3

**PROJECT IDENTIFICATION** 7411

THESE DRAWINGS ORIGINALLY CREATED IN AUTODESK REVIT V. 2016  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

**DRAWN BY** C. Naranjo

**CHECKED BY** C.S. Musser  
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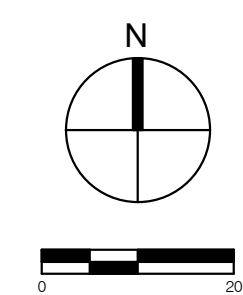
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**SHEET TITLE**

**LIGHTING PARTIAL SITE  
PLAN**

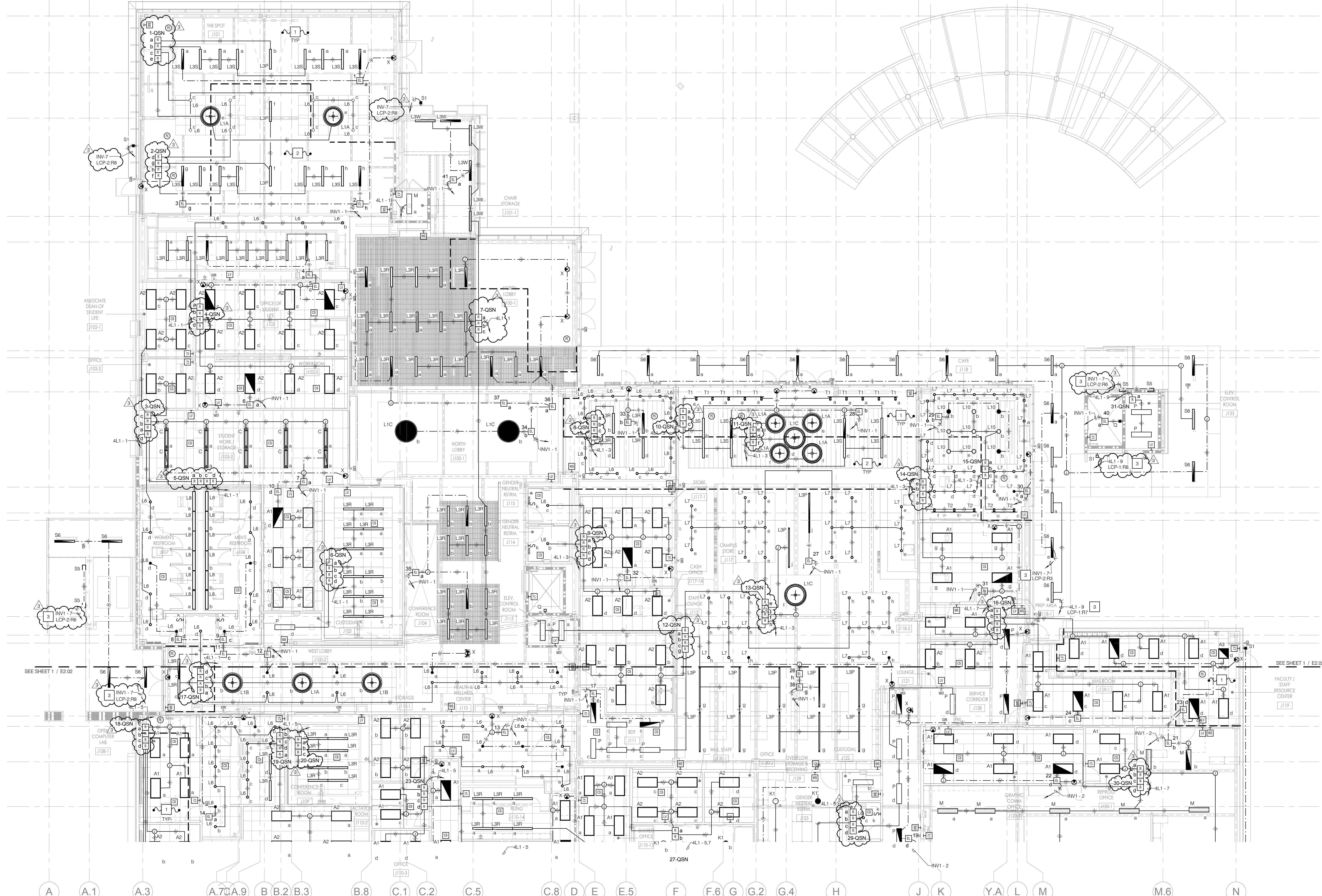
**SHEET NUMBER**

**E1.01**





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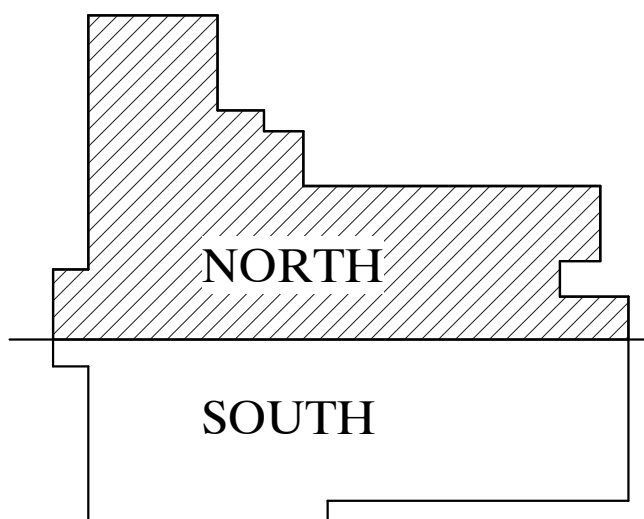


1  
Y.1  
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3.2  
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C.3  
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A A.1 A.3 A.7C.A.9 B.B.2.B.3 B.8 C.1 C.2 C.5 C.8 D E E.5 F F.6 G G.2 G.4 H J K Y.A L M M.6 N

- NOTES**
1. PROVIDE UNSWITCHED FEED TO EMERGENCY RELAY/POWER PACK FROM SAME CIRCUIT SERVING NON EMERGENCY FIXTURES IN EACH AREA. 3/4" C - 2#12; 1#12 GND.
  2. PROVIDE LOCAL EMERGENCY TEST SWITCH AT ALL EMERGENCY FIXTURES. ALLOW FOR HARD AND GRID CEILING INSTALLATION.
  3. RELAY/POWER PACKS FOR EXTERIOR LIGHTING SHALL BE LOCATED IN FIRST FLOOR ELECTRICAL ROOM J126. SEE SHEETS E0.04 AND E0.05 FOR ADDITIONAL INFORMATION.
  4. REFER TO LIGHT FIXTURE SCHEDULE SHEET E0.03 FOR LIGHT FIXTURE TYPE AND ADDITIONAL INFORMATION.
  5. REFER TO LIGHTING CONTROL DETAILS ON SHEETS E6.02, E6.03 AND E6.05 FOR ADDITIONAL INFORMATION.

- GENERAL NOTES**
1. PROVIDE UNWITTED FEED TO EMERGENCY RELAY/POWER PACK FROM SAME CIRCUIT SERVING NON EMERGENCY FIXTURES IN EACH AREA. 3/4" C - 2#12; 1#12 GND.
  2. PROVIDE LOCAL EMERGENCY TEST SWITCH AT ALL EMERGENCY FIXTURES. ALLOW FOR HARD AND GRID CEILING INSTALLATION.
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  4. REFER TO LIGHT FIXTURE SCHEDULE SHEET E0.03 FOR LIGHT FIXTURE TYPE AND ADDITIONAL INFORMATION.
  5. REFER TO LIGHTING CONTROL DETAILS ON SHEETS E6.02, E6.03 AND E6.05 FOR ADDITIONAL INFORMATION.



LIGHTING FIRST FLOOR PLAN - NORTH SCALE 1/8" = 1'-0" 1



architecture

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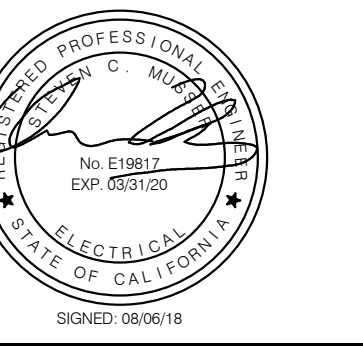
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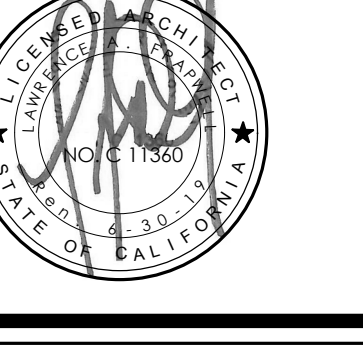


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PROJECT TITLE  
JOHNSON STUDENT CENTER  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS	
#	DATE DESCRIPTION
05/18/18	HEALTH DEPT. SUBMITTAL
08/13/18	DSA FINAL SUBMITTAL
09/24/18	ADDENDUM #3

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SHEET TITLE  
FIRST FLOOR LIGHTING  
PLAN - NORTH

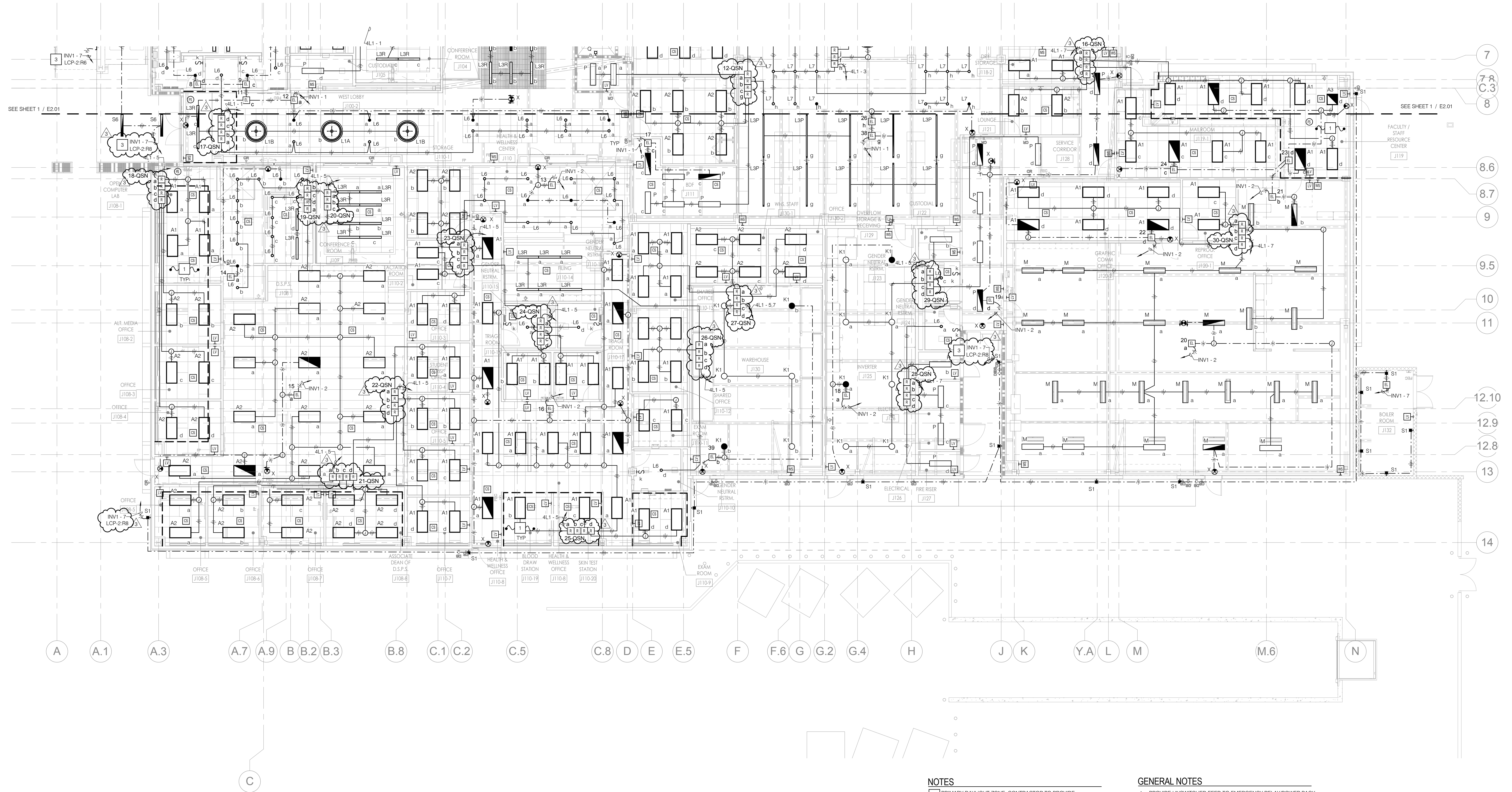
SHEET NUMBER

E2.01

100% CONSTRUCTION DOCUMENTS

P2S: 7411

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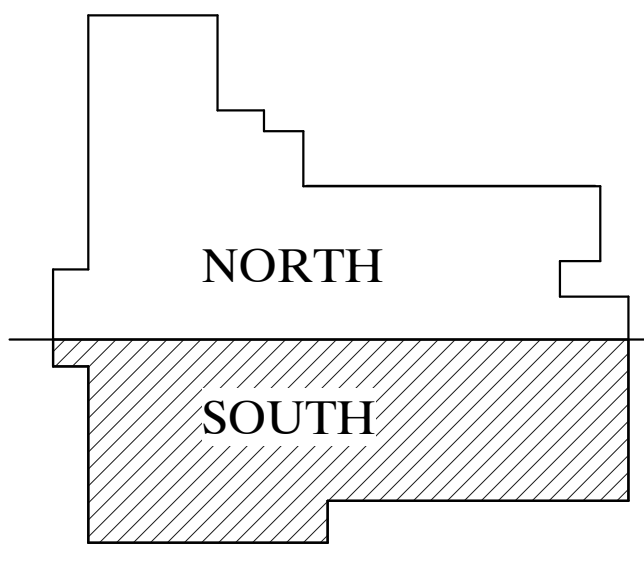


**NOTES**

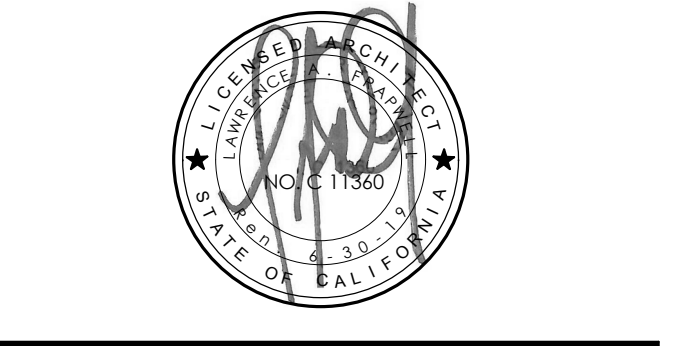
- 1 PRIMARY DAYLIGHT ZONE. CONTRACTOR TO PROVIDE PHOTOSENSOR'S FOR DAYLIGHT HARVESTING. ROOMS WHERE TOTAL WATTAGE IS UNDER 120W, OR ROOMS WHERE TOTAL GLAZING AREA IS LESS THAN 24 SQUARE FEET SHALL BE EXEMPT PER SECTION 130-1.02.
- 2 FIXTURES IN AREA TO BE CABLE MOUNTED 13.5 FT AFF.
- 3 ROUTE THROUGH LIGHTING CONTROL PANEL #LMPIC LOCATED IN FIRST FLOOR ELECTRICAL ROOM. REFER TO SHEET E0.09 FOR ADDITIONAL INFORMATION.

**GENERAL NOTES**

1. PROVIDE UNSWITCHED FEED TO EMERGENCY RELAY/POWER PACK FROM SAME CIRCUIT SERVING NON EMERGENCY FIXTURES IN EACH AREA. 3/4" - 2#12, #12 GND.
2. PROVIDE LOCAL EMERGENCY TEST SWITCH AT ALL EMERGENCY FIXTURES. ALLOW FOR HARD AND GRID CEILING INSTALLATION.
3. EXTERIOR LIGHTING CONTROLLERS. FIELD COORDINATE EXACT LOCATION WITH FINAL EQUIPMENT INSTALLATION IN SPACE. REFER TO DRAWING E1.01 FOR DETAILS.
4. PROVIDE TWO NETWORK MANAGER SYSTEMS FOR BUILDING LIGHTING - ONE FOR FIRST FLOOR AND EXTERIOR LIGHTING, OTHER FOR 2ND FLOOR LIGHTING. PROVIDE NETWORK TIE-IN TO BUILDING'S BMS BAC-NET SYSTEM. FIELD COORDINATE EXACT LOCATION FOR MOUNTING.
5. RELAY/POWER PACKS FOR EXTERIOR LIGHTING SHALL BE LOCATED IN FIRST FLOOR ELECTRICAL ROOM J126. SEE SHEET E0.03 FOR ADDITIONAL INFORMATION.
6. REFER TO LIGHT FIXTURE SCHEDULE SHEET E0.03 FOR LIGHT FIXTURE TYPE AND ADDITIONAL INFORMATION.
7. REFER TO LIGHTING CONTROL DETAILS ON SHEET E6.02, E6.03 AND E6.05 FOR ADDITIONAL INFORMATION.



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2	08/13/18
3	09/24/18

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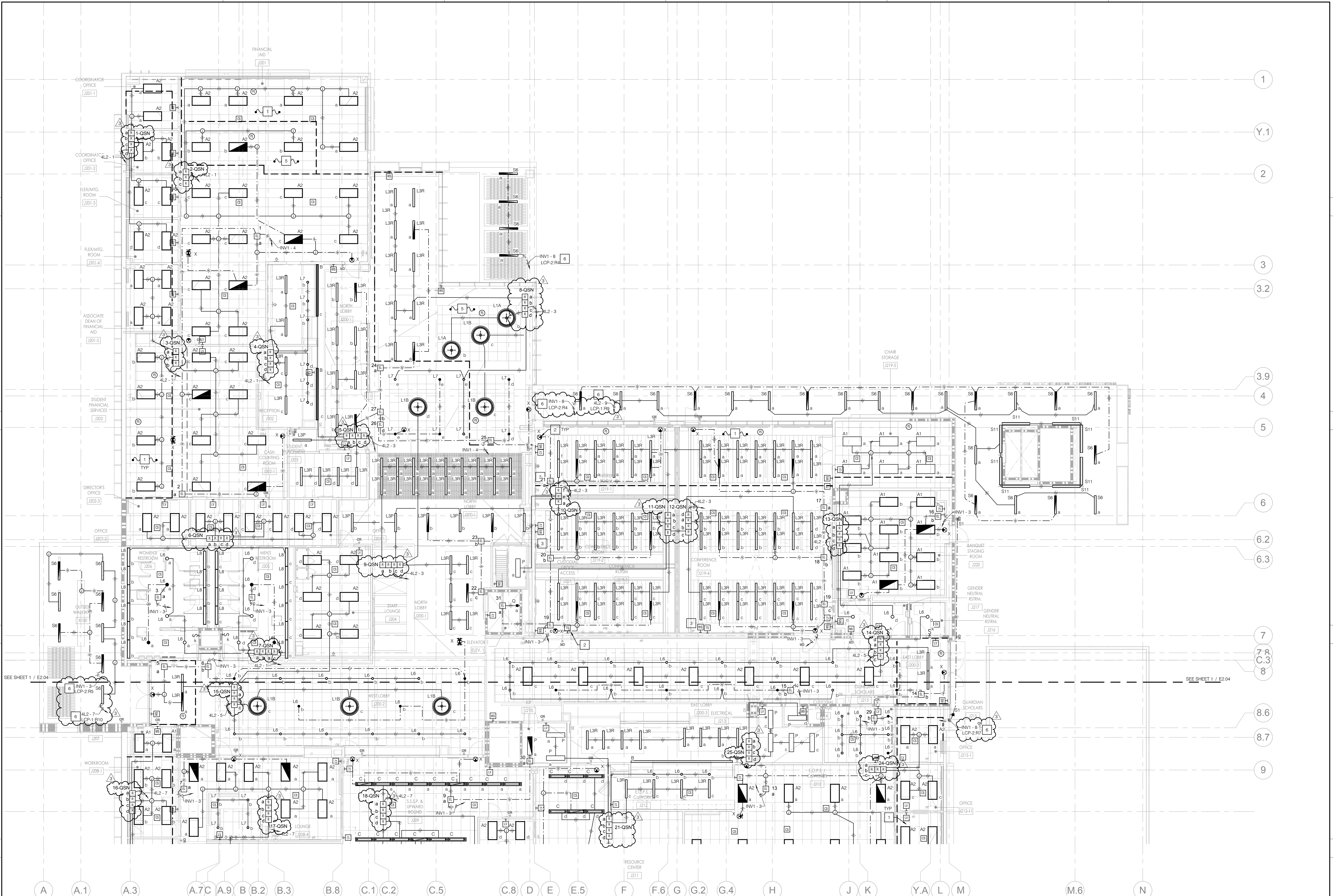
SHEET TITLE  
FIRST FLOOR LIGHTING  
PLAN - SOUTH

SHEET NUMBER

**E2.02**



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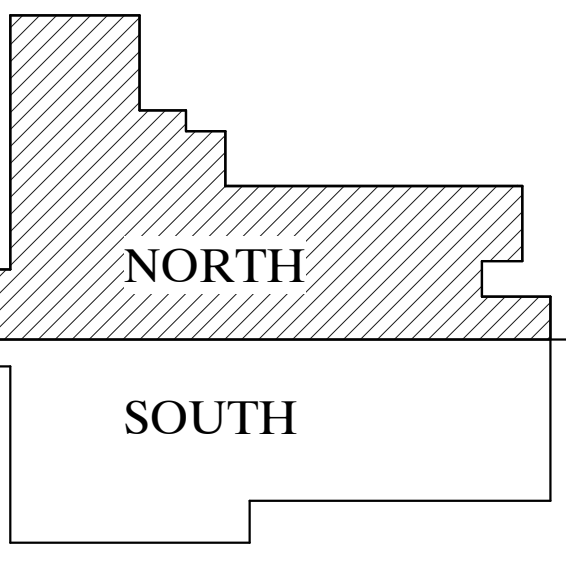


**NOTES**

- 1 PRIMARY DAYLIGHT ZONE. CONTRACTOR TO PROVIDE PHOTOSENSOR/S FOR DAYLIGHT HARVESTING. ROOMS WHERE TOTAL WATTAGE IS UNDER 120W, OR ROOMS WHERE TOTAL GLAZING AREA IS LESS THAN 24 SQUARE FEET SHALL BE EXEMPT PER SECTION 130.16(2).
- 2 PROVIDE TOUCH SCREEN PANEL FOR LIGHTING AND SHADE CONTROL. WATTSTOPPER ELOQUO 73.
- 3 PROVIDE THE FOLLOWING FOR ROOM CONTROL SEGREGATION PER PARTITION WALLS:
  - A. THREE CONTROL ACTUATORS AT CEILING RAIL TO OPERATE UPON WALL CLOSURE.
  - B. CONTROL CIRCUITING BETWEEN LIGHTING CONTROLS AND PARTITION OPERATORS.
  - C. PROGRAMMING SHOULD SEGREGATE CONTROLLERS AT EACH ROOM UPON WALL CLOSURES, AND MERGE UPON OPENING. SEE WIRING DIAGRAM 6/E6.03.
- 4 PROVIDE TIE-IN TO MECHANICAL SHADES FROM LIGHTING CONTROL SYSTEM.
- 5 SECONDARY DAYLIGHT ZONE.
- 6 ROUTE THROUGH LIGHTING CONTROL PANEL #LMP/C LOCATED IN FIRST FLOOR ELECTRICAL ROOM. REFER TO SHEET E0.05 FOR ADDITIONAL INFORMATION.
- 7 PROVIDE LED BACKLIGHTING. REFER TO LIGHT FIXTURE SCHEDULE FOR DETAILS.

**GENERAL NOTES**

1. PROVIDE UNSWITCHED FEED TO EMERGENCY RELAY/POWER PACK FROM SAME CIRCUIT SERVING NON EMERGENCY FIXTURES IN EACH AREA. 3/4" - 2#12, 1#12 GND.
2. PROVIDE LOCAL EMERGENCY TEST SWITCH AT ALL EMERGENCY FIXTURES. ALLOW FOR HARD AND GRID CEILING INSTALLATION.
3. REFER TO LIGHT FIXTURE SCHEDULE SHEET E0.03 FOR LIGHT FIXTURE TYPE AND ADDITIONAL INFORMATION.
4. REFER TO LIGHTING CONTROL DETAILS ON SHEET E6.02, E6.03 AND E6.05 FOR ADDITIONAL INFORMATION.



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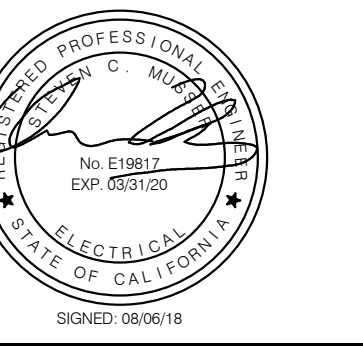
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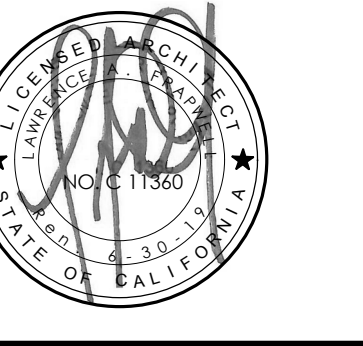


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SEALS / APPROVALS



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PROJECT TITLE  
JOHNSON STUDENT CENTER  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS	
#	DATE DESCRIPTION
1	05/18/18 HEALTH DEPT. SUBMITTAL
2	08/13/18 DSA FINAL SUBMITTAL
3	09/24/18 ADDENDUM #3

PROJECT IDENTIFICATION 7411  
THESE DRAWINGS ORIGINALLY CREATED IN AUTOCAD REVIT V. 2016  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

DRAWN BY C. Naranjo

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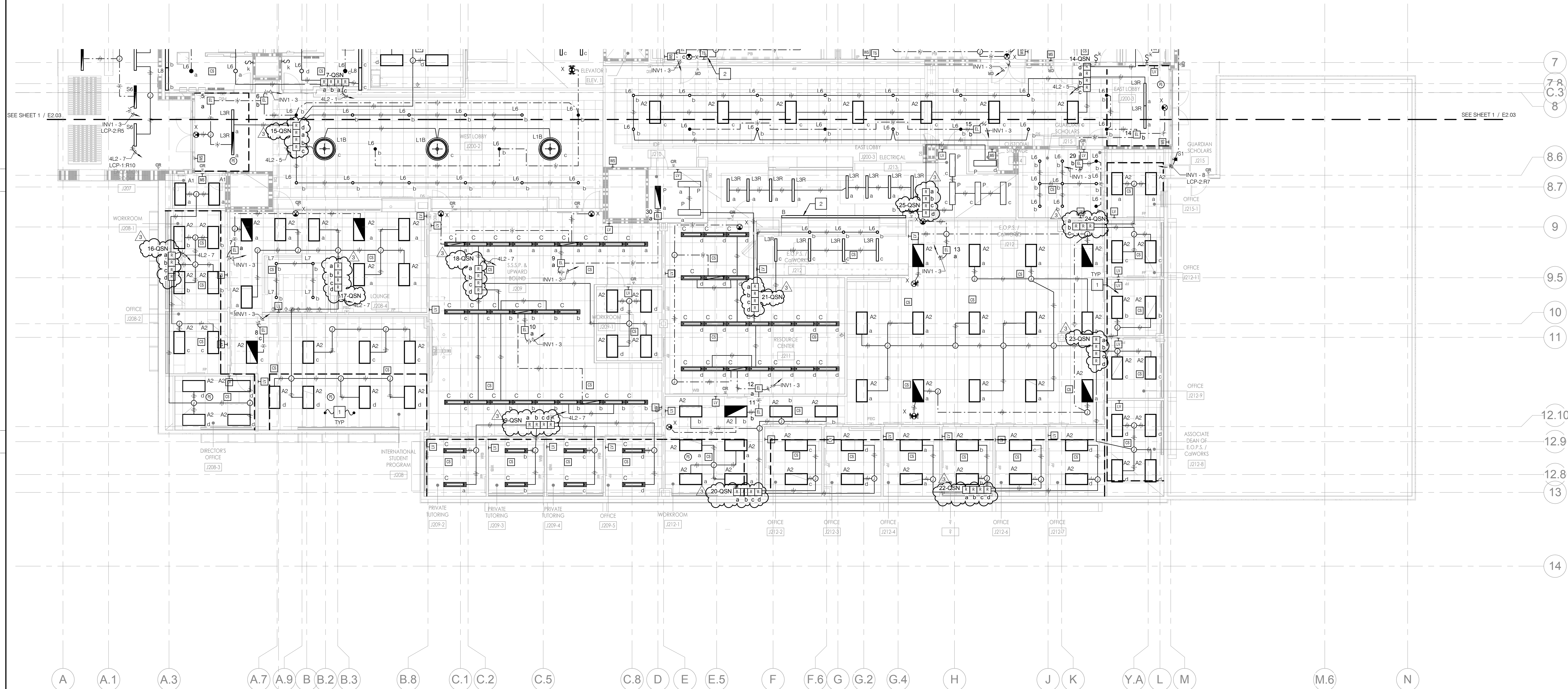
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SHEET TITLE  
SECOND FLOOR LIGHTING PLAN - NORTH

SHEET NUMBER

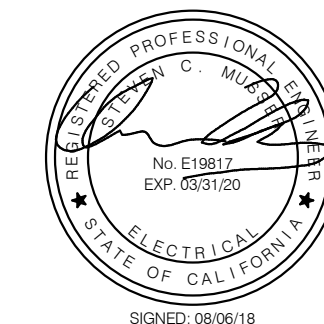
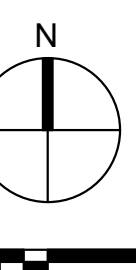
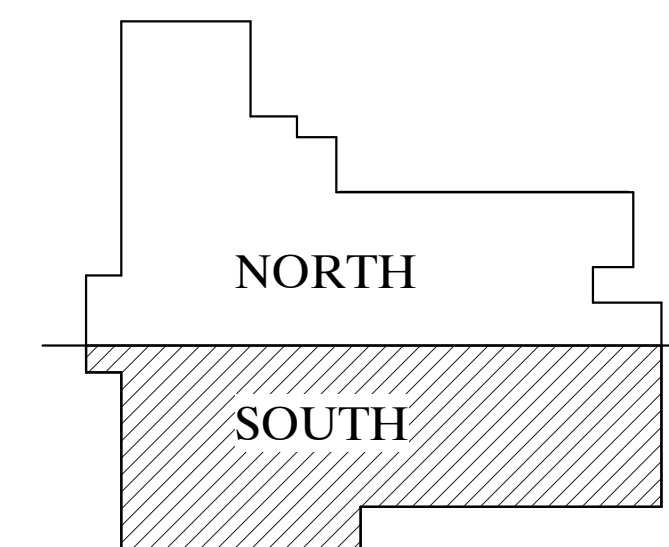
E2.03

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- NOTES**
1. PRIMARY DAYLIGHT ZONE. CONTRACTOR TO PROVIDE PHOTOSENSORS FOR DAYLIGHT HARVESTING. ROOMS WHERE TOTAL WATTAGE IS UNDER 120W, OR ROOMS WHERE TOTAL GLAZING AREA IS LESS THAN 24 SQUARE FEET SHALL BE EXEMPT PER SECTION 130.1(4)(2).
  2. PROVIDE LED BACKLIGHTING. REFER TO LIGHT FIXTURE SCHEDULE FOR DETAILS.

- GENERAL NOTES**
1. PROVIDE UNSWITCHED FEED TO EMERGENCY RELAYPOWER PACK FROM SAME CIRCUIT SERVING NON EMERGENCY FIXTURES IN EACH AREA . 34" C - 2#12, 1#12 GND.
  2. PROVIDE LOCAL EMERGENCY TEST SWITCH AT ALL EMERGENCY FIXTURES. ALLOW FOR HARD AND GRID CEILING INSTALLATION.
  3. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E0.03 FOR LIGHT FIXTURE TYPE AND ADDITIONAL INFORMATION.
  4. REFER TO LIGHTING CONTROL DETAILS ON SHEETS E6.02, E6.03 AND E6.05 FOR ADDITIONAL INFORMATION.



SEALS / APPROVALS

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PROJECT TITLE

JOHNSON STUDENT CENTER  
INCREMENT 2

1530 W 17TH ST ANA CA 92706



SUBMITTALS	
#	DATE DESCRIPTION
05/18/18	HEALTH DEPT. SUBMITTAL
08/13/18	DSA FINAL SUBMITTAL
09/24/18	ADDENDUM #3

PROJECT IDENTIFICATION 7411

THESE DRAWINGS ORIGINALLY CREATED IN AUTODESK REVIT V. 2016

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CHECKED BY C.S. Musser

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SHEET TITLE

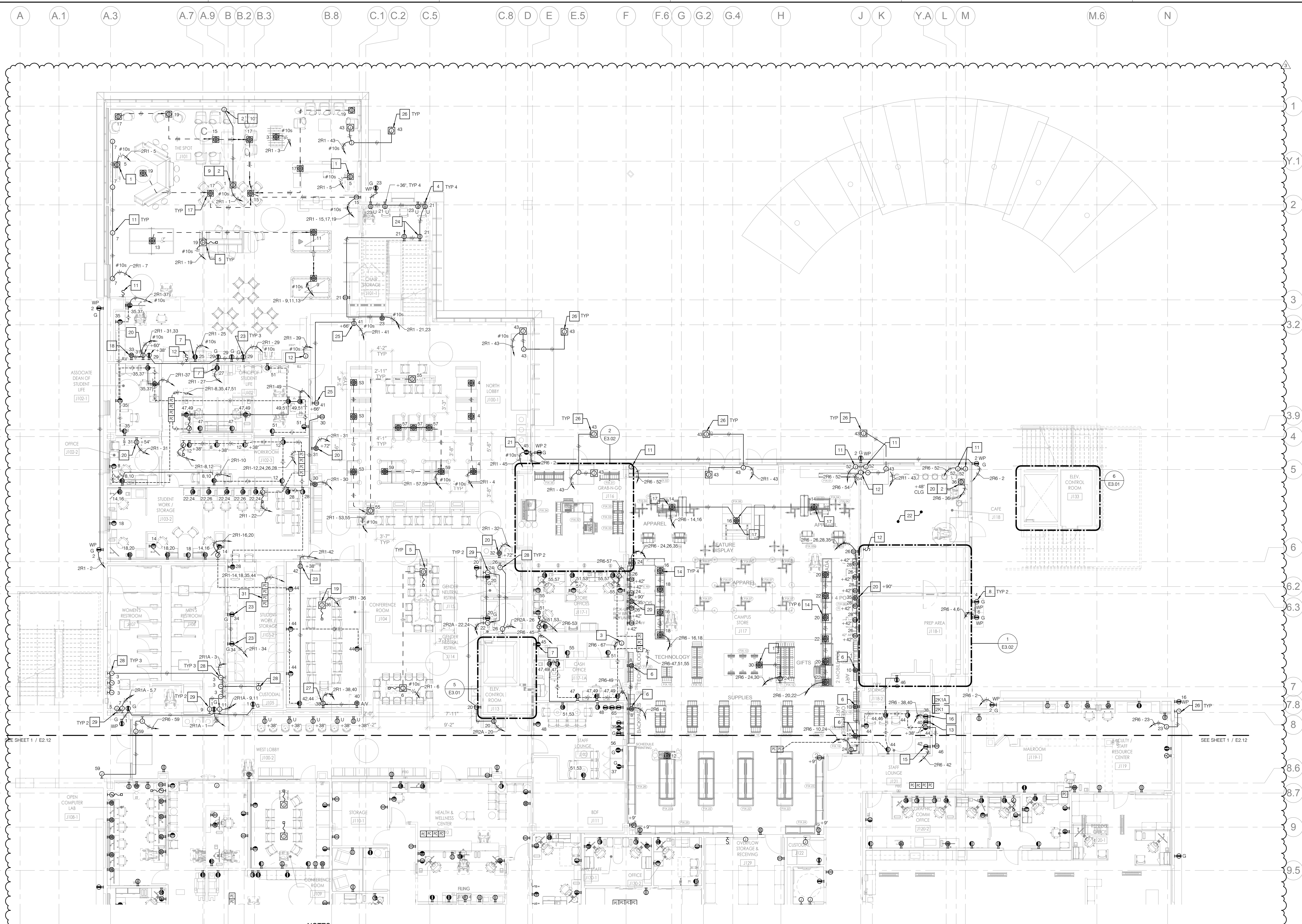
SECOND FLOOR LIGHTING PLAN - SOUTH

SHEET NUMBER

E2.04



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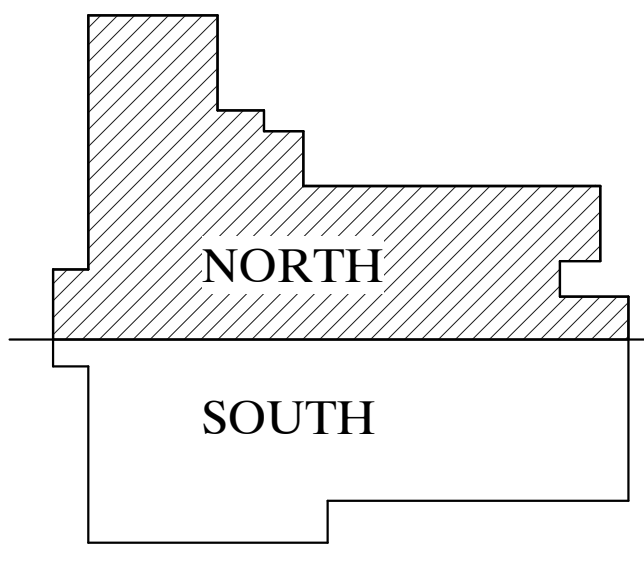
**NOTES**

- 1 PROVIDE POWER, DATA, AV FLOORBOX. PROVIDE WITH BRASS COVERPLATE. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL REQUIREMENTS AND FLOOR BOX TYPE.
- 2 PROVIDE PENDANT MOUNTING FOR EQUIPMENT AND OUTLET IN SPACE.
- 3 PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR POWER DOOR OPENER.
- 4 PROVIDE DUAL-PORT, USB INTEGRATED DUPLEX RECEPTACLES FOR CHARGING TERMINAL AREA.
- 5 PROVIDE POWER FEED TO FURNITURE. COORDINATE WITH FURNITURE MANUFACTURER.
- 6 PROVIDE ONE DEDICATED RELAY PACK AND SWITCH TO ROOM LIGHTING CONTROLLER TO SWITCH INDICATED RECEPTACLES FOR DISPLAY CASE LIGHTING.
- 7 PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE FOR PRINTER/PLOTTER.
- 8 PROVIDE DEDICATED 20A, 120V, 1P GFI RECEPTACLE WITH IN-USE WEATHERPROOF BOX FOR VENDING MACHINES.
- 9 PROVIDE 20A, 120V, 1P CEILING MOUNTED RECEPTACLE FOR PROJECTOR. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 10 PROVIDE 20A, 120V, 1P CIRCUIT TO SERVE PROJECTOR SCREEN AT CEILING. PROVIDE 3/4" C. CONDUCTORS, AND CONNECT SCREEN CONTROL PER MANUFACTURER. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 11 PROVIDE 20A, 120V, 1P CIRCUIT TO WINDOW SHADE OPERATORS, TIE INTO LIGHTING CONTROL.
- 12 PROVIDE 20A, 120V, 1P CIRCUIT TO MOTORIZED DOOR OPERATORS. PROVIDE 3/4" C. CONDUCTORS AND CONNECT DOOR CONTROL PER MANUFACTURER. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
- 13 PROVIDE DEDICATED RECEPTACLE TO SERVE COFFEE MAKER.
- 14 PROVIDE POWER AND DATA FLOORBOX. PROVIDE WITH BRASS COVERPLATE. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL REQUIREMENTS AND FLOOR BOX TYPE.
- 15 PROVIDE DEDICATED RECEPTACLE TO SERVE REFRIGERATOR.
- 16 PROVIDE DEDICATED RECEPTACLE TO SERVE MICROWAVE.
- 17 PROVIDE POWER ONLY FLOOR BOX WITH BRASS COVERPLATE LEGRAND PFB2 SERIES.

**GENERAL NOTES**

- 18 PROVIDE DEDICATED QUAD RECEPTACLE FOR AV RACK. REFER TO LOW VOLTAGE PLANS FOR EXACT LOCATION.
- 19 PROVIDE POWER FEED TO FURNITURE. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL REQUIREMENTS. COORDINATE FURNITURE FEED WITH FURNITURE MANUFACTURER.
- 20 PROVIDE RECEPTACLE FOR FLAT PANEL DISPLAY. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 21 PROVIDE DEDICATED 20A, 120V, 1P CIRCUIT TO SERVE ATM KIOSK.
- 22 PROVIDE STAND ALONE GFI RECEPTACLES FOR ALL CIRCUITS IN SPACE.
- 23 MOUNT RECEPTACLE HORIZONTAL AT 38" AFF.
- 24 MOUNT IN FRONT FACE OF CONCRETE BENCH.
- 25 PROVIDE RECEPTACLE FOR DIGITAL SIGNAGE. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 26 PROVIDE CONDUIT, WIRE, AND CONNECT TO ADA PADDLE WITH DOOR FINISHING. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- 27 PROVIDE 20A, 120V, 1P CIRCUIT TO SERVE SHORT THROW PROJECTOR. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 28 PROVIDE CONNECTION TO SERVE PAPER TOWEL DISPENSER.
- 29 PROVIDE DEDICATED 20A, 120V, 1P CONNECTION TO SERVE HAND DRYER.
- 30 CONTROLLED RECEPTACLES SHALL BE CONTROLLED BY THE MOTION SENSOR ASSOCIATED WITH THE LIGHTING CONTROL FOR THAT ROOM. ROUTE CONTROLLED CIRCUIT AS INDICATED VIA PLUG CONTROLLER TIED INTO LIGHTING CONTROL SYSTEM.
- 31 PROVIDE LITTON ENERGI SAVR MODULE FOR PLUG LOAD CONTROL UP TO FOUR PLUG LOAD ZONES. DASHED CONDUIT AND WIRE DENOTE CIRCUITS ROUTED THROUGH ENERGI SAVR MODULE.

1. PROVIDE (2) 20A, 120V, 1P CIRCUIT FOR MISC. SECURITY EQUIPMENT (IE DOOR BELLS, INDICATOR LIGHTS, CARD READERS, DOOR-HOLDERS/LOCKS).
2. PROVIDE IN-USE WEATHERPROOF HOUSING FOR ALL EXTERIOR BUILDING RECEPTACLES. ALLOW FOR STRUT SUPPORT AND EXPOSED EXTERIOR RECEPTACLE BOX AT ALL EXCEPT WHERE WALL SURFACE IS AVAILABLE FOR A RECESS BOX.
3. PROVIDE GREEN PLATE FOR CONTROLLED RECEPTACLES.
4. PROVIDE DEDICATED NEUTRAL TO ALL RECEPTACLES SERVING COMPUTERS.



**FIRST FLOOR POWER PLAN - NORTH** SCALE 1/8" = 1'-0" 1



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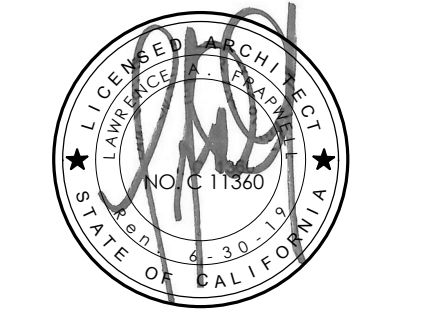


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PROJECT TITLE  
**JOHNSON STUDENT CENTER**  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS	
#	DATE
1	05/18/18
2	08/13/18
3	09/24/18

PROJECT IDENTIFICATION 7411  
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THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

DRAWN BY C. Naraino

CHECKED BY C.S. Musser  
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SHEET TITLE  
**FIRST FLOOR POWER PLAN - NORTH**

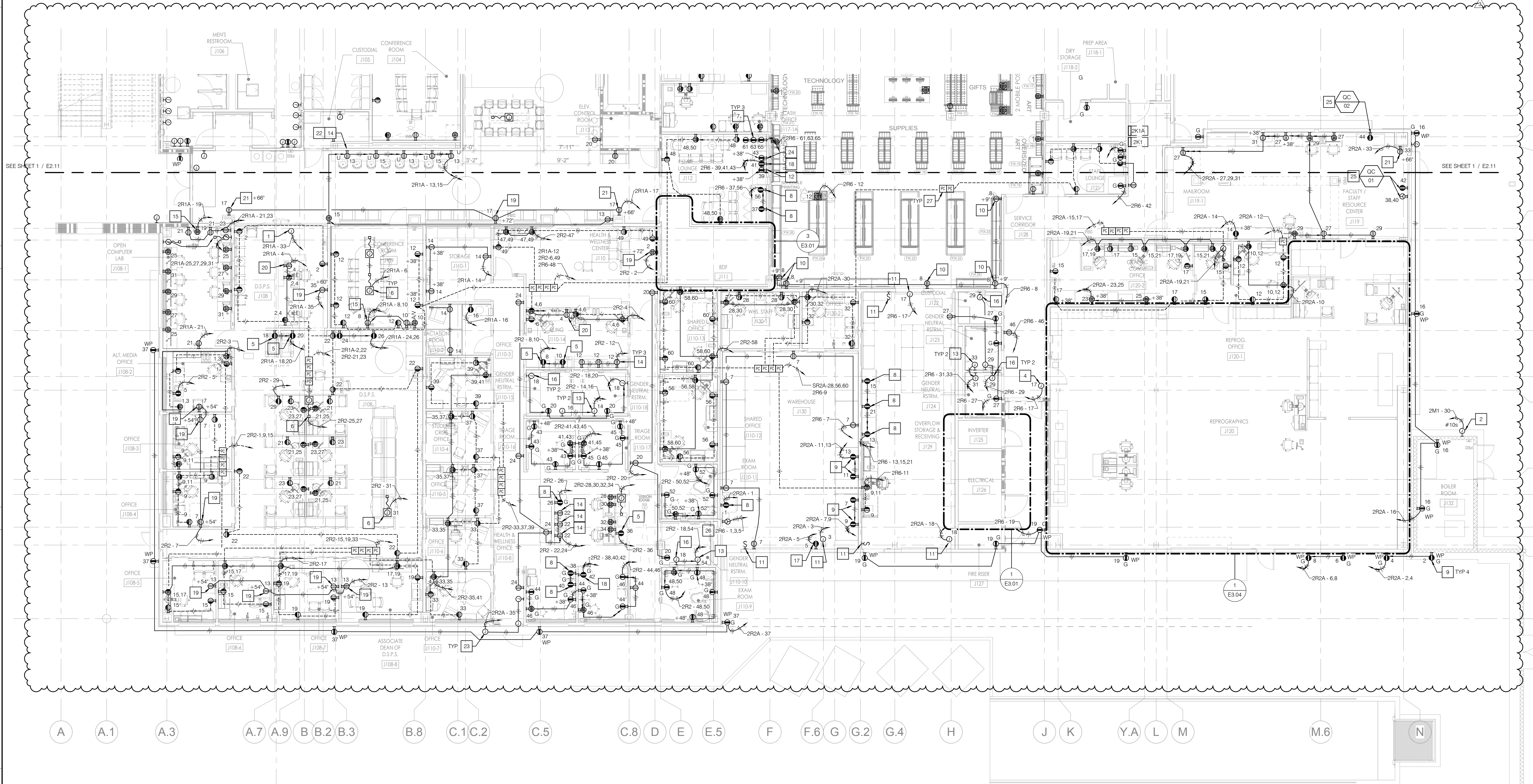
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**E2.11**

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P2S: 7411



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SEE SHEET 1 / E2.11

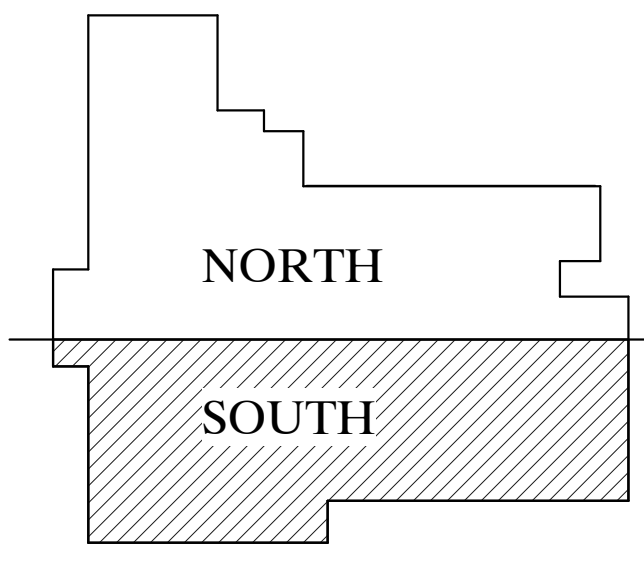
SEE SHEET 1 / E2.11

**NOTES**

- 1 PROVIDE 120V, 1P, 20A CONNECTION TO SERVE SLIDING GLASS DOOR. PROVIDE MOTOR RATED TOGGLE SWITCH. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
- 2 PROVIDE 20A, 120V, 1P CIRCUIT TO SERVE IRRIGATION CONTROLLER.
- 3 PROVIDE POWER, DATA, AV FLOORBOX. PROVIDE WITH BRASS COVERPLATE. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL REQUIREMENTS AND FLOOR BOX TYPE.
- 4 PROVIDE 20A, 120V, 1P CIRCUIT TO SERVE POWER TRANSFER HINGE EQUIPMENT.
- 5 PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE FOR PRINTER/PLOTTER/SHREDDER.
- 6 PROVIDE POWER FEED TO FURNITURE. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL REQUIREMENTS. COORDINATE FURNITURE FEED WITH FURNITURE MANUFACTURER.
- 7 STACKED MICROWAVES LOCATED HERE. PROVIDE DEDICATED 20A, 120V, 1P CIRCUIT TO EACH MICROWAVE. REFER TO ARCHITECTURAL SHEET A7.20 FOR ADDITIONAL INFORMATION.
- 8 PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE TO SERVE REFRIGERATOR/COOLER.
- 9 PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE TO SERVE ELECTRIC CART.
- 10 PROVIDE ONE DEDICATED RELAY PACK AND SWITCH TO MOTOR LIGHTING CONTROLLER TO SWITCH INDICATED RECEPTABLES FOR DISPLAY CASE LIGHTING.
- 11 PROVIDE 20A, 120V, 1P CIRCUIT TO MOTORIZED DOOR OPERATORS. PROVIDE 34°C CONDUCTORS AND CONNECT DOOR CONTROL PER MANUFACTURER. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
- 12 PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE TO SERVE COFFEE MAKER.
- 13 PROVIDE DEDICATED 20A, 120V, 1P CONNECTION TO SERVE HAND DRYER.
- 14 MOUNT RECEPTACLE HORIZONTAL AT 38" AFF.
- 15 PROVIDE 20A, 120V, 1P CIRCUIT TO SERVE SHORT THROW PROJECTOR. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 16 PROVIDE CONNECTION TO SERVE PAPER TOWEL DISPENSER.
- 17 PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE TO SERVE DELIVERY CART CHARGING.
- 18 PROVIDE DEDICATED CIRCUIT TO SERVE ICE MAKER.

**GENERAL NOTES**

- 1. PROVIDE BMS TIE-IN OF DOMESTIC WATER. ACCOUNT FOR 200FT RUN OF CAT6 AND 3/4" TO NEAREST IT ROOM.
- 2. PROVIDE (2) 20A, 120V, 1P CIRCUIT FOR MISC. SECURITY EQUIPMENT (IE DOOR BELLS, INDICATOR LIGHTS, CARD READERS, DOORHOLDERS/LOCKS).
- 3. PROVIDE IN-USE WEATHERPROOF HOUSING FOR ALL EXTERIOR BUILDING RECEPTABLES. ALLOW FOR STRUT SUPPORT AND EXPOSED EXTERIOR RECEPTABLE BOX AT ALL EXCEPT WHERE WALL SURFACE IS AVAILABLE FOR A RECESS BOX.
- 4. UON PROVIDE ALL DEVICES WITH CEILING MOUNTED, RETRACTABLE POWER CORDS AT RESPECTIVE LOCATIONS. REFER TO DRAWING E5.02, DETAIL 6 FOR MORE INFORMATION.
- 19. PROVIDE RECEPTACLE FOR FLAT PANEL DISPLAY. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 20. PROVIDE RECEPTACLE FOR DVD PLAYER. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 21. PROVIDE RECEPTACLE FOR DIGITAL SIGNAGE. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 22. PROVIDE DUAL-PORT, USB INTEGRATED DUPLEX RECEPTACLE FOR CHARGING TERMINAL AREA.
- 23. PROVIDE CONDUIT, WIRE, AND CONNECT TO ADA PADDLE WITH DOOR FINISHING. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- 24. PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE TO SERVE TOASTER.
- 25. REFER TO REPROGRAPHICS EQUIPMENT SCHEDULE ON SHEET E3.04 FOR ADDITIONAL INFORMATION.
- 26. PROVIDE 40A, 208V, 3P CONNECTION TO SERVE FORKLIFT CHARGER. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
- 27. PROVIDE LUTRON ENERGI SAVR MODULE FOR PLUG LOAD CONTROL (UP TO FOUR PLUG LOAD ZONES). DASHED CONDUIT AND WIRE DENOTE CIRCUITS ROUTED THROUGH ENERGI SAVR MODULE.



FIRST FLOOR POWER PLAN - SOUTH SCALE 1/8" = 1'-0" 1



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PROJECT TITLE  
JOHNSON STUDENT CENTER  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



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CHECKED BY C.S. Musser

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SHEET TITLE  
FIRST FLOOR POWER PLAN - SOUTH

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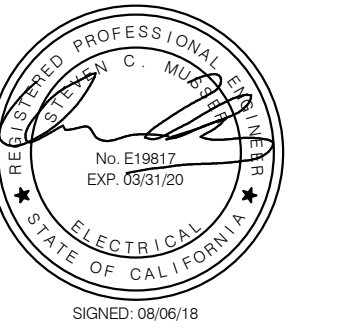
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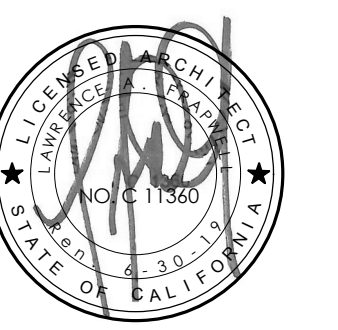
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JOHNSON STUDENT CENTER  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS	
#	DESCRIPTION
05/18/18	HEALTH DEPT. SUBMITTAL
08/13/18	DSA FINAL SUBMITTAL
09/24/18	ADDENDUM #3

PROJECT IDENTIFICATION 7411  
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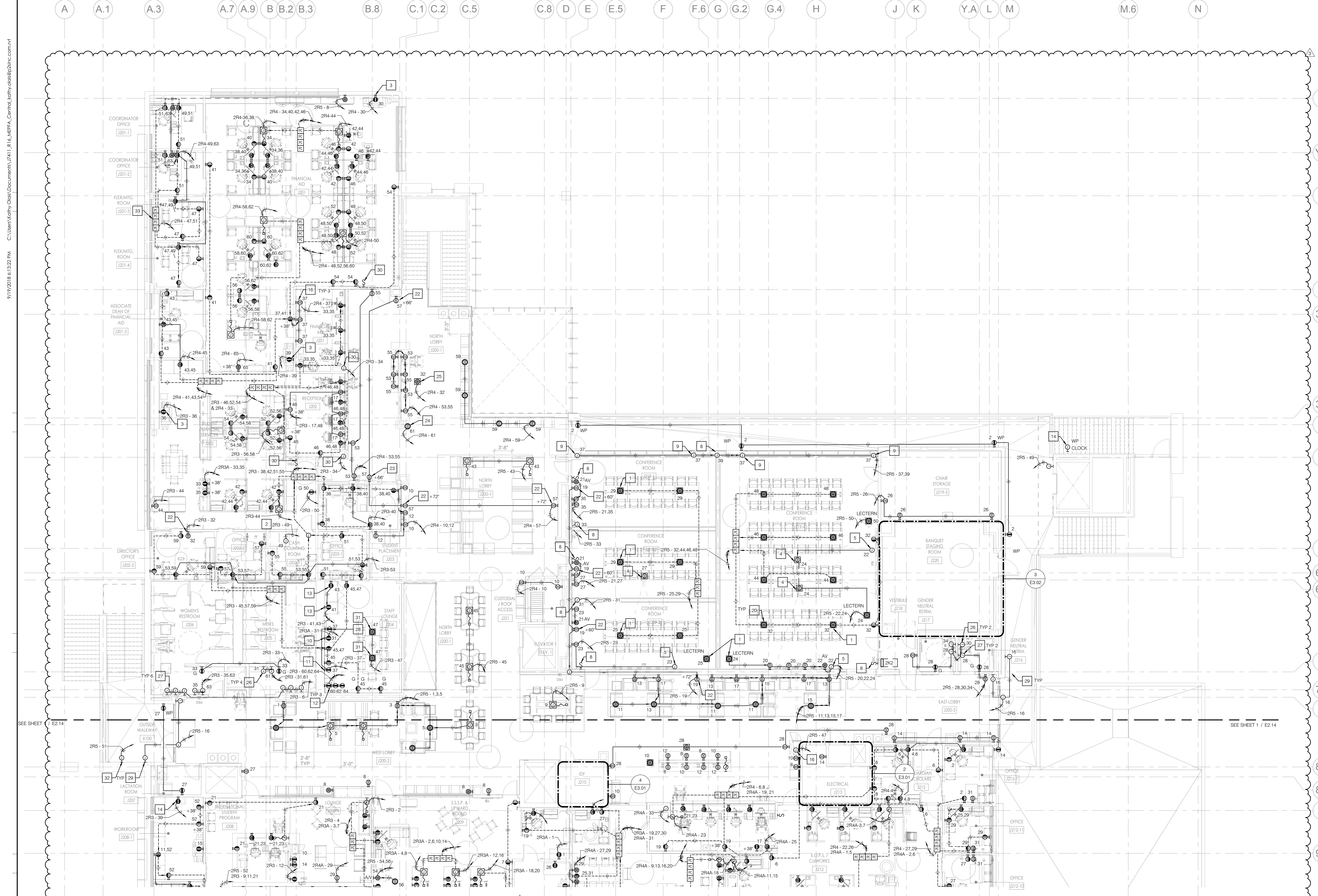
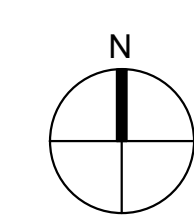
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SHEET TITLE  
**SECOND FLOOR POWER PLAN - NORTH**

SHEET NUMBER

**E2.13**

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**NOTES**

- 1 PROVIDE POWER, DATA, AV FLOORBOX. PROVIDE WITH BRASS COVERPLATE. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL REQUIREMENTS AND FLOORBOX TYPE.
- 2 PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR POWER TRANSFER HINGE EQUIPMENT.
- 3 PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE FOR PRINTER/LOTTER.
- 4 PROVIDE 20A, 120V, 1P CEILING MOUNTED RECEPTACLE FOR PROJECTOR. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 5 PROVIDE 20A, 120V, 1P CIRCUIT PROJECTOR SCREEN ON CEILING. PROVIDE 3/4" C. CONDUCTORS AND CONNECT SCREEN CONTROL PER MANUFACTURER. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 6 PROVIDE 20A, 120V, 1P RECEPTACLES FOR FOOD SERVICING.
- 7 NOT USED.
- 8 PROVIDE 20A, 120V, 1P CIRCUIT TO PARTITION WALL OPERATORS. PROVIDE 3/4" C. CONDUCTORS AND CONNECT PARTITION CONTROL PER MANUFACTURER. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.

- 9 PROVIDE 20A, 120V, 1P CIRCUIT TO WINDOW SHADE OPERATORS. PROVIDE DEDICATED CIRCUIT TO SERVE CEMAKER.
- 10 NOT USED.
- 11 PROVIDE DEDICATED CIRCUIT TO SERVE COFFEE MAKER.
- 12 PROVIDE DEDICATED 20A, 120V, 1P CIRCUIT FOR MICROWAVE.
- 13 PROVIDE DEDICATED 20A, 120V, 1P CIRCUIT TO FRIDGE/COOLER.
- 14 PROVIDE DEDICATED 20A, 120V, 1P CIRCUIT TO CLOCK AND CONTROL WIRING BACK TO 2ND FLOOR IDF ROOM 214.
- 15 NOT USED.
- 16 MOUNT RECEPTACLE HORIZONTAL AT 38" AFF.
- 17 NOT USED.
- 18 NOT USED.
- 19 PROVIDE INFRASTRUCTURE ONLY JUNCTION BOX WITH BLANK COVER PLATE WITH 3/4" O. TO ALLOW CONNECTION FOR FUTURE FLAT PANEL.

- 20 PROVIDE POWER ONLY FLOORBOX WITH BRASS COVERPLATE. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- 21 NOT USED.
- 22 PROVIDE RECEPTACLE FOR FLAT PANEL DISPLAY. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE DRAWINGS FOR ADDITIONAL INFORMATION.
- 23 PROVIDE RECEPTACLE FOR DIGITAL SIGNAGE. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE DRAWINGS FOR ADDITIONAL INFORMATION.
- 24 PROVIDE 120V CONNECTION TO QMATIC KIOSK. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
- 25 PROVIDE CEILING MOUNTED RECEPTACLE FOR FLAT PANEL DISPLAY. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE DRAWINGS FOR ADDITIONAL INFORMATION.
- 26 PROVIDE DEDICATED 120V, 1P, 20A CONNECTION TO SERVE HAND DRYER.
- 27 PROVIDE CONNECTION TO SERVE PAPER TOWEL DISPENSER.
- 28 PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE FOR TOASTER.

**GENERAL NOTES**

- 1. PROVIDE TWO 120V, 1P-20A CIRCUIT FOR MISC. LOW VOLTAGE EQUIPMENT (IE DOOR BELLS, INDICATOR LIGHTS).
- 2. PROVIDE IN-USE WEATHERPROOF HOUSING FOR ALL EXTERIOR BUILDING RECEPTACLES. ALLOW FOR STRUT SUPPORT AND EXPOSED EXTERIOR RECEPTACLE BOX AT ALL EXCEPT WHERE WALL SURFACE IS AVAILABLE FOR A RECESS BOX.

SECOND FLOOR POWER PLAN - NORTH

SCALE  
1/8" = 1'-0"

1

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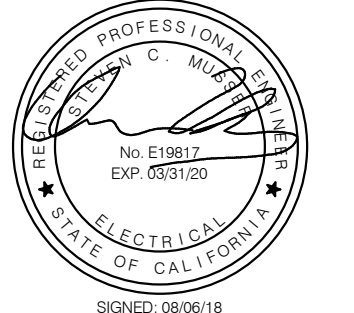
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CONSULTANTS

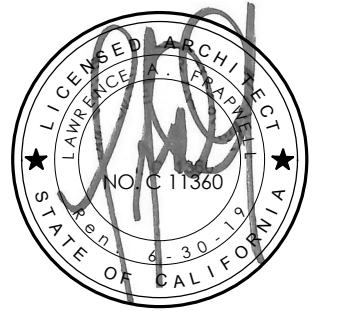
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FILE: 30-C2  
A# 04-116810

AC FLS SS

DATE

PROJECT TITLE

JOHNSON STUDENT CENTER  
INCREMENT 2

1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS	
#	DATE
1	05/18/18
2	08/13/18
3	09/24/18

PROJECT IDENTIFICATION 7411

THESE DRAWINGS ORIGINALLY CREATED IN AUTOCAD REVIT V. 2016  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

DRAWN BY C. Naranjo

CHECKED BY C.S. Musser

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SHEET TITLE

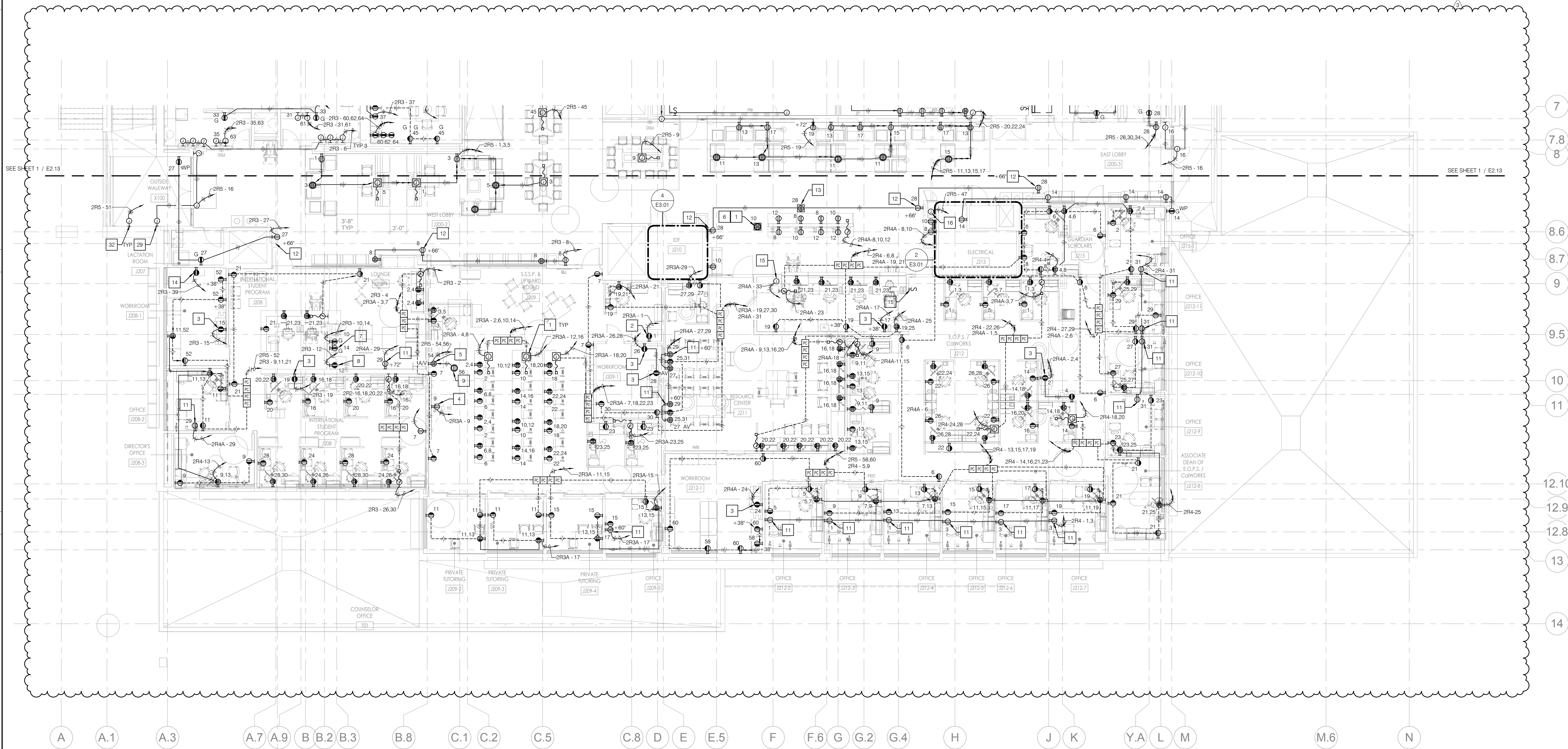
SECOND FLOOR POWER  
PLAN - SOUTH

SHEET NUMBER

E2.14

100% CONSTRUCTION DOCUMENTS

P2S: 7411

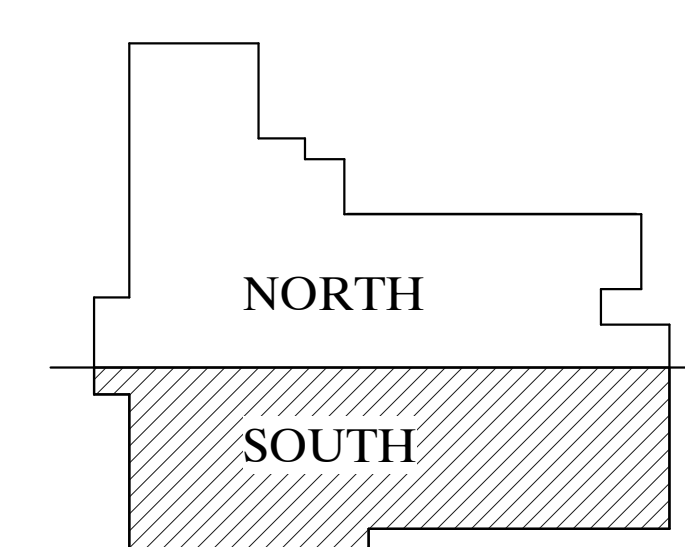


**NOTES**

1. PROVIDE POWER AND DATA FIRE RATED POKE-THROUGH WITH BRASS COVERPLATE (LEGRAND EVOLUTION 10AT). COORDINATE WITH LOW VOLTAGE DEVICE INSTALLATION.
2. PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE FOR LAPTOP CHARGING CART.
3. PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE FOR PRINTER/PLOTTER.
4. PROVIDE 120V, 20A, 1P CIRCUIT TO SERVE SHORT THROW PROJECTOR. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
5. PROVIDE DEDICATED QUAD RECEPTACLE FOR AV RACK. REFER TO LOW VOLTAGE PLANS FOR EXACT LOCATION.
6. PROVIDE 20A, 120V, 1P CIRCUIT TO PEDESTAL TICKET KIOSK.
7. PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE FOR MICROWAVE.
8. PROVIDE DEDICATED 20A, 120V, 1P RECEPTACLE FOR FRIDGE.
9. PROVIDE POKE THRU FOR LECTERN. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. REFER TO LOW VOLTAGE PLANS FOR ADDITIONAL INFORMATION.
10. NOT USED.

**GENERAL NOTES**

1. PROVIDE TWO 120V, 1P-20A CIRCUIT FOR MISC. LOW VOLTAGE EQUIPMENT (IE DOOR BELLS, INDICATOR LIGHTS, CARD READERS).
2. PROVIDE IN-USE WEATHERPROOF HOUSING FOR ALL EXTERIOR BUILDING RECEPTACLES. ALLOW FOR STRUT SUPPORT AND EXPOSED EXTERIOR RECEPTACLE BOX AT ALL EXCEPT WHERE WALL SURFACE IS AVAILABLE FOR A RECESS BOX.



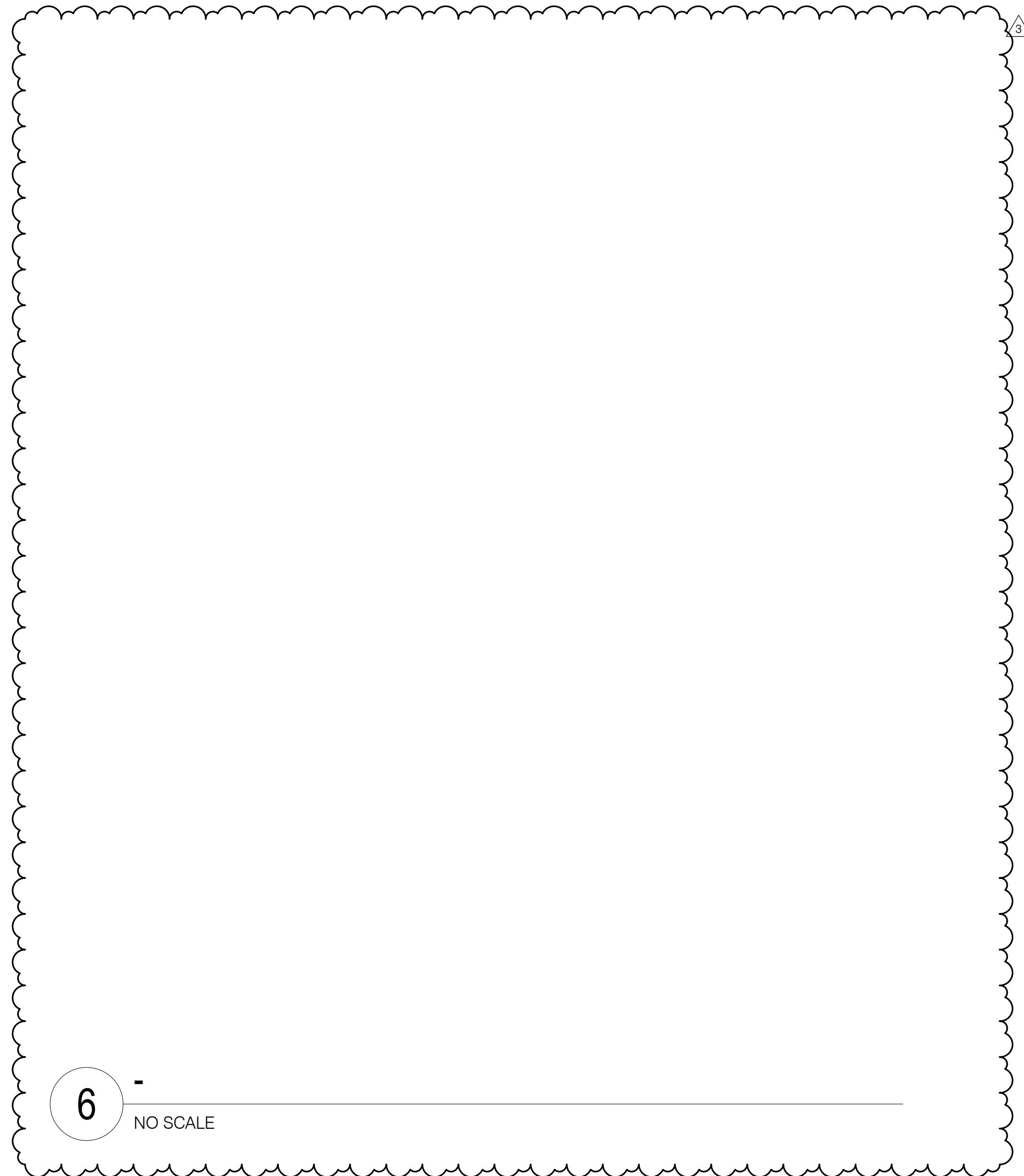
SECOND FLOOR POWER PLAN - SOUTH

SCALE  
1/8" = 1'-0"

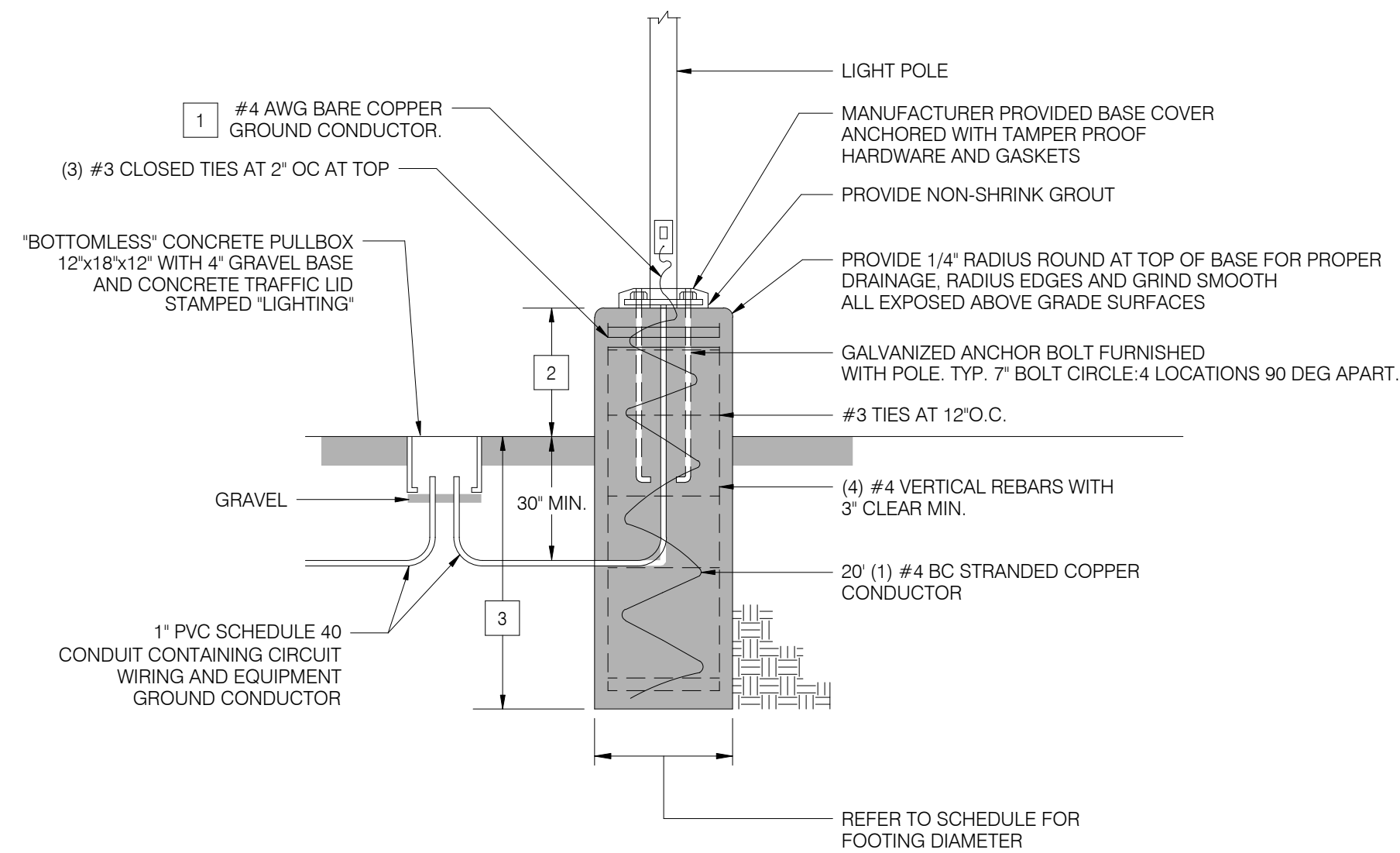
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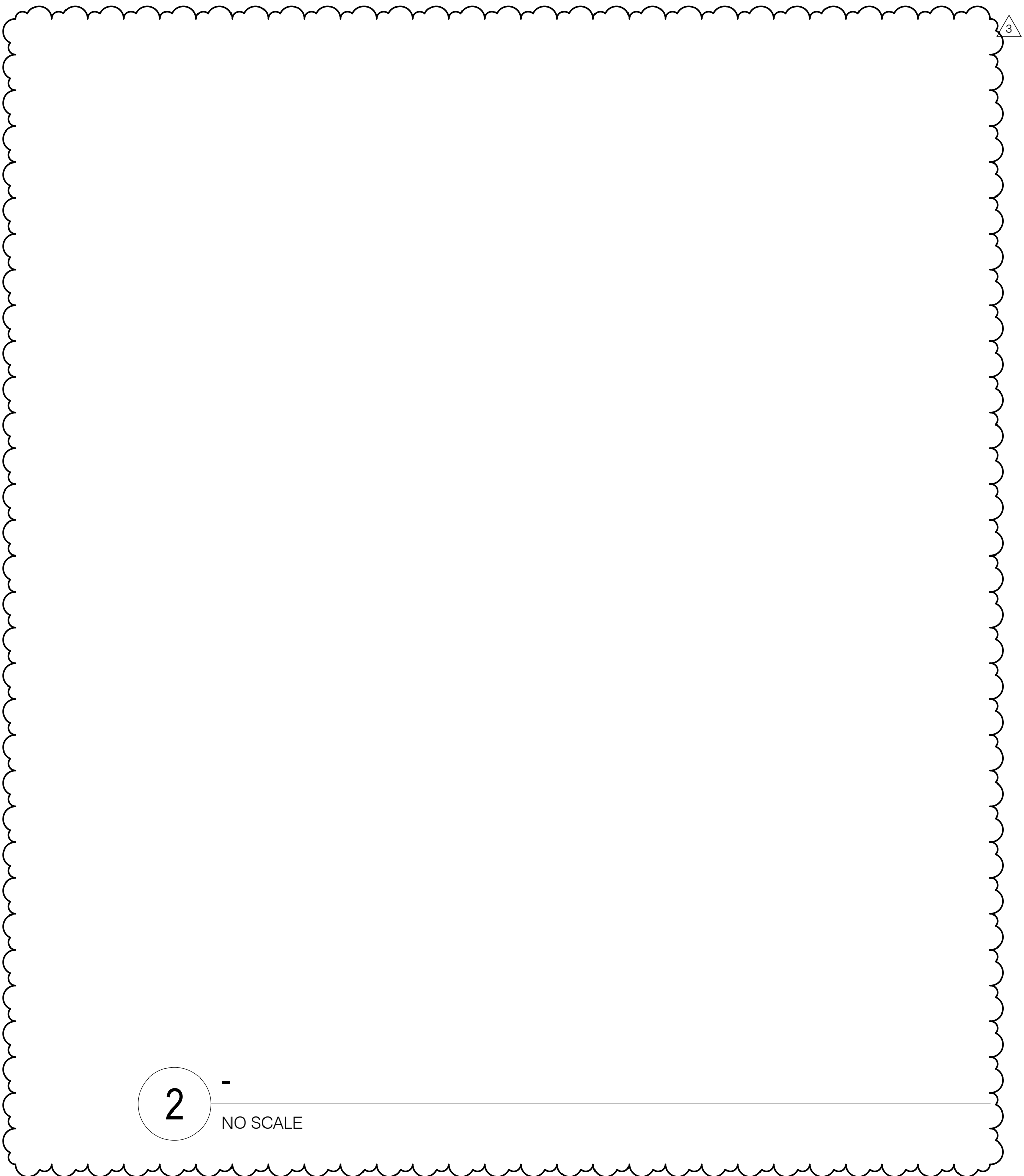
**6** - NO SCALE



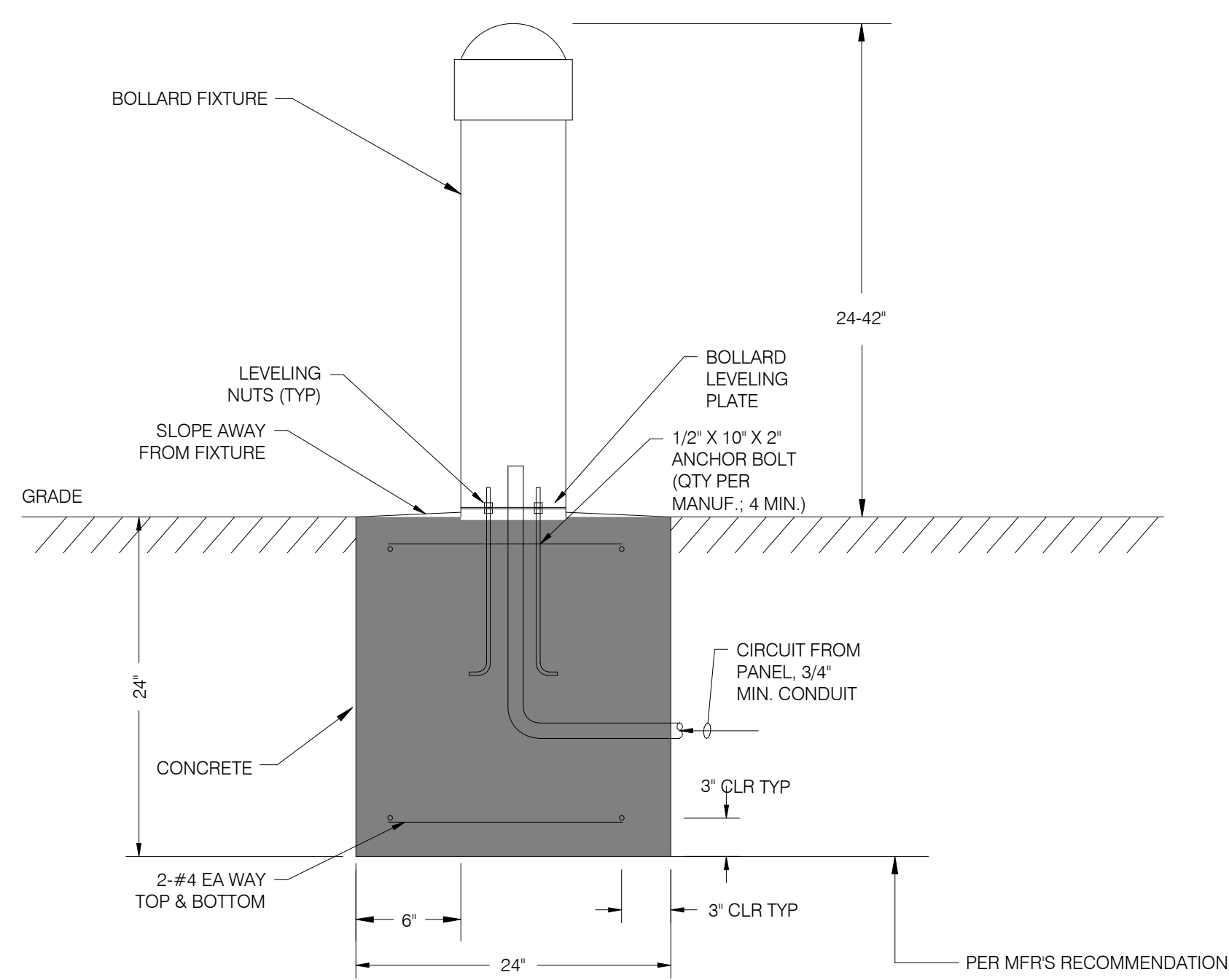
LIGHT POLE FOOTING SCHEDULE			
POLE HEIGHT	FOOTING HEIGHT BELOW GRADE	FOOTING DIAMETER	FOOTING HEIGHT ABOVE GRADE
0'-0" UP TO 15'-0" (WALKWAYS)	4'-0"	2'-0"	6"

- KEYED NOTES**
- GROUND POLE TO GROUND CONDUCTORS IN CONDUITS.
  - REFER TO SCHEDULE FOR ABOVE GRADE HEIGHT.
  - REFER TO SCHEDULE FOR FOOTING LENGTH BELOW GRADE.

**4** LIGHT POLE FOOTING  
NO SCALE

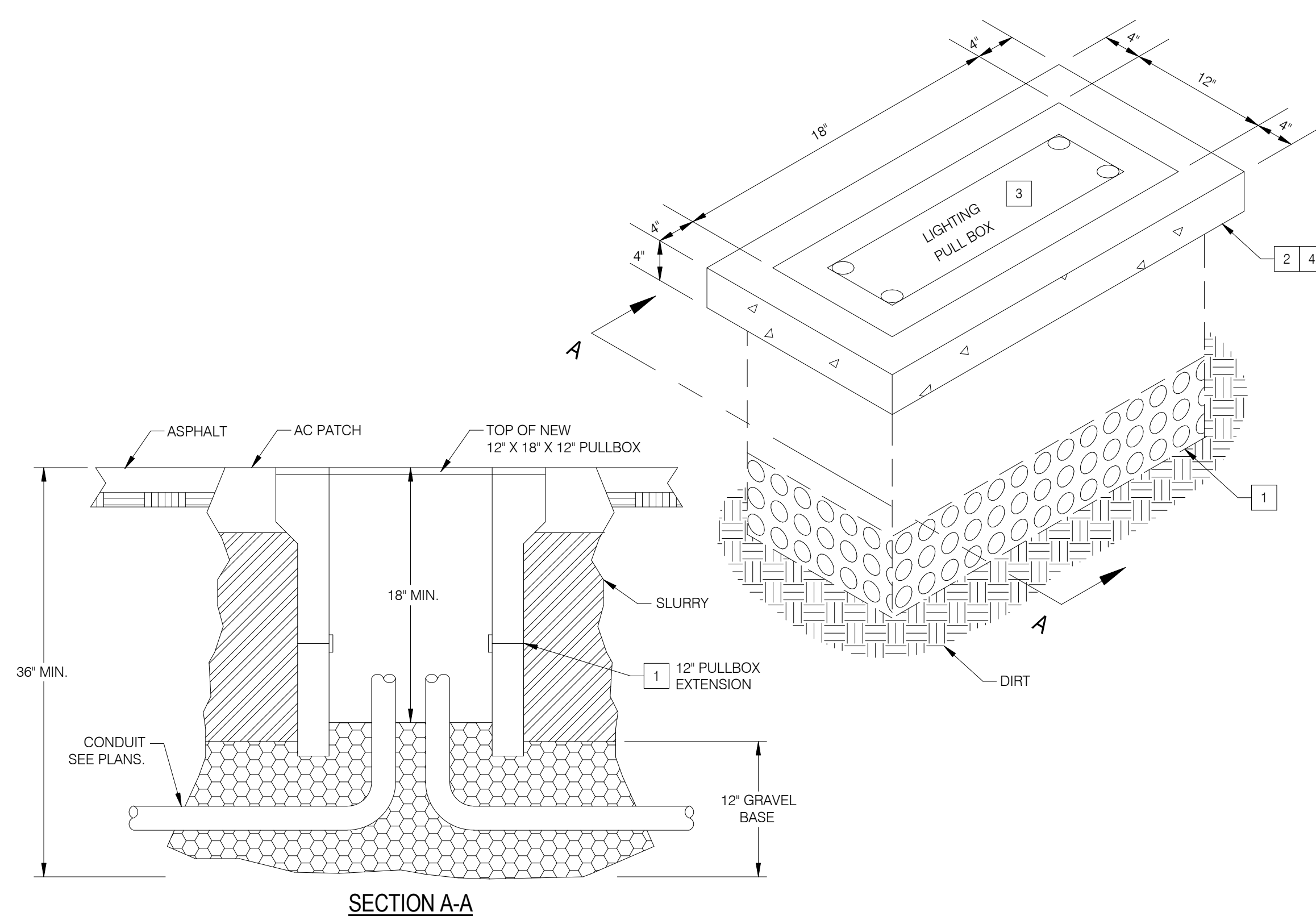


**2** - NO SCALE



- NOTES:**
- DETAIL IS STRICTLY DIAGRAMATIC. COORDINATE WITH EACH FIXTURE MANUFACTURER FOR SPECIFIC REQUIREMENTS.

**5** POST BOLLARD LIGHT FIXTURE  
NO SCALE



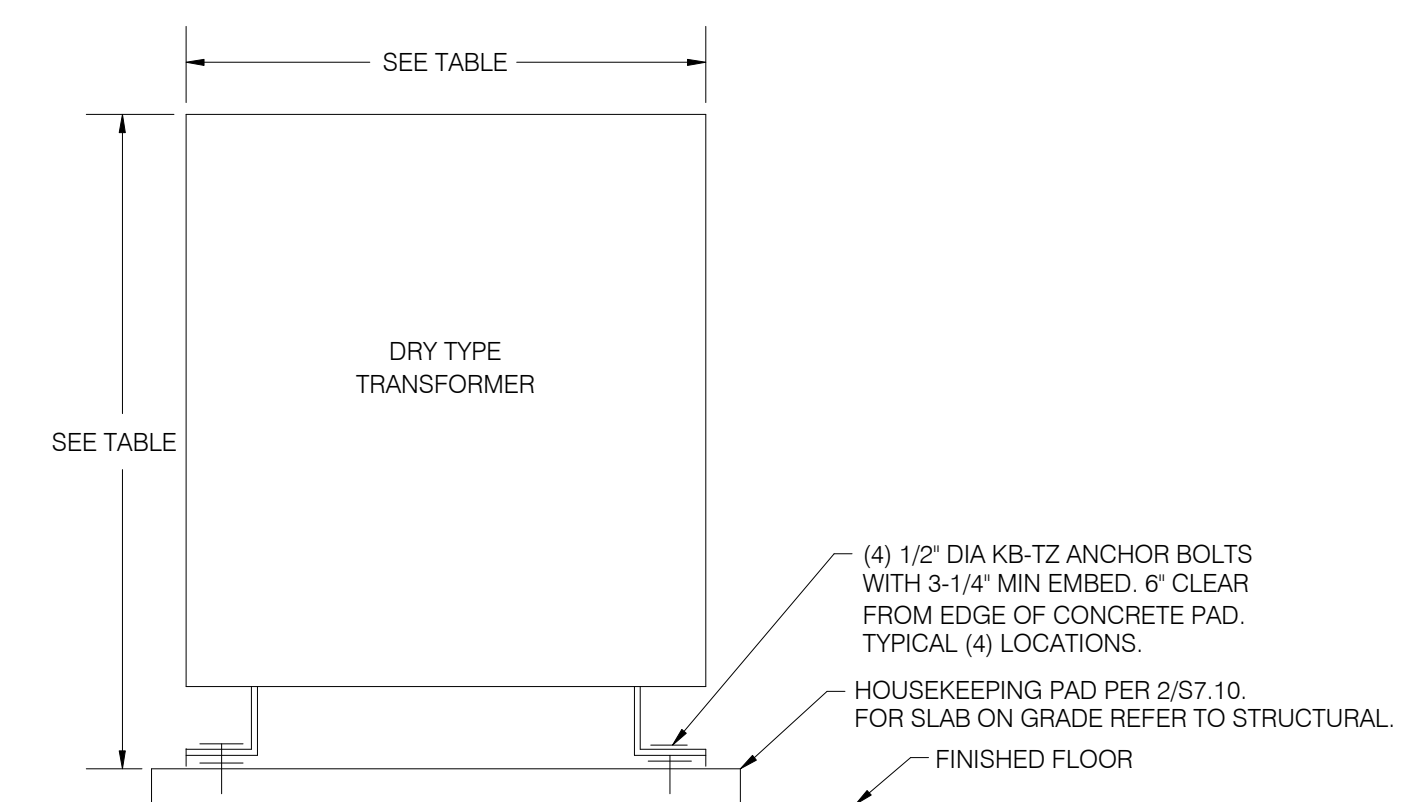
- NOTES**
- PULL BOX BASE. SET ON PEA GRAVEL BASE BENEATH PULL BOX. (PROVIDE EXTENSIONS AS REQD. IN FIELD) MIN. OF (1) EXTENSION.
  - POUR 4" CONCRETE OR AC PATCH PAD AROUND EACH PULL BOX TO PREVENT SINKING BELOW GRADE, AND SLURRY COAT AROUND. SEE SECTION A-A.
  - PROVIDE 6'-0" #6 GROUND BOND JUMPER TO COVER FROM SERVICE GROUND CONDUCTOR WITH NECESSARY APPROVED HARDWARE.
  - WATER TIGHT INSTALLATION-FOAM SEAL CONDUIT OPENINGS.

**3** HAND HOLE  
NO SCALE

- NOTES**
- LABEL EACH COVER: A) ELECTRIC PULLBOX STEEL BOLT DOWN; B) COMMUNICATION PULLBOX
  - DO NOT MIX POWER & L.V. COMM. CONDUITS.

KVA SIZE	H	W	D	WEIGHT
112 SKVA	51"	34.5"	31.5"	1263lbs
225KVA	60"	38"	34"	1745lbs

**NOTE:**  
1. TRANSFORMER SHALL BE CLASS 155 OR HIGHER INSULATION SYSTEM.



- NOTES**
- SPECIAL INSPECTION OF EXPANSION ANCHOR INSTALLATION IS REQUIRED.
  - EXPANSION ANCHORS SHALL BE HILTI-KWIK BOLT-TZ (ICC ESR-1917).

**1** DRY TYPE TRANSFORMER  
NO SCALE



SEALS / APPROVALS



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A# 04 - 116810

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DATE

PROJECT TITLE  
**JOHNSON STUDENT CENTER  
INCREMENT 2**  
1530 W 17TH ST SANTA ANA, CA 92706



SUBMITTALS	
#	DATE DESCRIPTION
05/18/18	HEALTH DEPT. SUBMITTAL
08/13/18	DSA FINAL SUBMITTAL
09/24/18	ADDENDUM #3

PROJECT IDENTIFICATION 7411  
THESE DRAWINGS ORIGINALLY CREATED IN AUTOCAD REVIT V. 2016  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

DRAWN BY C. Narainjo

CHECKED BY C.S. Musser  
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SHEET TITLE  
**DETAILS**

SHEET NUMBER

**E6.03**





SECTION 260923 - DISTRIBUTED DIGITAL LIGHTING CONTROL SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Digital Lighting and Plug Load Controls
2. Relay Panels
3. Emergency Lighting Control
4. Wired sensors

B. Related Sections:

1. Section 262726 - Wiring Devices
2. Section 265100 – Interior Lighting
3. Section 265600 – Exterior Lighting
4. Drawings and general provision of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections apply to this Section
5. Electrical Sections, including wiring devices, apply to the work of this Section.

C. Control Intent – Control Intent includes, but is not limited to:

1. Defaults and initial calibration settings for such items as time delay, sensitivity, fade rates, etc.
2. Initial sensor and switching zones
3. Initial time switch settings
4. Emergency Lighting control (if applicable)

1.2 REFERENCES

- A. American National Standards Institute/Institute of Electrical and Electronic Engineers (ANSI/IEEE) ([www.ansi.org](http://www.ansi.org) and [www.ieee.org](http://www.ieee.org))
- B. International Electrotechnical Commission (IEC) ([www.iec.ch](http://www.iec.ch))
- C. International Organization for Standardization (ISO) ([www.iso.ch](http://www.iso.ch)):
- D. National Electrical Manufacturers Association (NEMA) ([www.nema.org](http://www.nema.org))
- E. WD1 (R2005) - General Color Requirements for Wiring Devices.
- F. Underwriters Laboratories, Inc. (UL) ([www.ul.com](http://www.ul.com)):
  1. 20 – Plug Load Controls
  2. 508 – Industrial Controls
  3. 916 – Energy Management Equipment
  4. 924 – Emergency Lighting
  5. 1310 – Class 2 Power Units
  6. 1472 – Solid-State Dimming Controls



### 1.3 SYSTEM DESCRIPTION & OPERATION

- A. The Lighting Control and Automation system as defined under this section covers the following equipment:
1. Distributed digital lighting control on a local network – Free topology, hard wiring system for power and data to room devices.
  2. Digital Room Controllers – Self-configuring, digitally addressable one, two or three relay plenum-rated controllers for on/off control. Selected models include 0-10 volt or line voltage forward phase control dimming outputs and integral current monitoring capabilities.
  3. Digital Plug Load Controllers – Self-configuring, digitally addressable, single relay, plenum-rated application-specific controllers. Selected models include integral current monitoring capabilities.
  4. Digital Fixture Controllers – Self-configuring, digitally addressable one relay fixture-integrated controllers for on/off/0-10V dimming control.
  5. Digital Occupancy Sensors – Self-configuring, digitally addressable, calibrated occupancy sensors with LCD display and two-way active infrared (IR) communications.
  6. Digital Switches – Self-configuring, digitally addressable pushbutton on/off, dimming, and scene switches with two-way active infrared (IR) communications.
  7. Handheld remotes for personal control – On/Off, dimming and scene remotes for control using infrared (IR) communications. Remote may be configured in the field to control selected loads or scenes without special tools.
  8. Digital Daylighting Sensors – Single-zone closed loop, multi-zone open loop and single-zone dual-loop daylighting sensors with two-way active infrared (IR) communications for daylight harvesting using switching, bi-level, tri-level or dimming control.
  9. Configuration Tools – Handheld remote for room configuration and relay panel programming provides two way infrared (IR) communications to digital devices and allows complete configuration and reconfiguration of the device / room from up to 30 feet away.
  10. Distributed digital lighting control central network – Linear topology, BACnet MS/TP network (1.5 twisted pair, shielded) to connect multiple local networks for centralized control.
  11. Network Bridge – Provides BACnet MS/TP-compliant digital networked communication between rooms, panels and the Segment Manager or building automation system (BAS) and automatically creates BACnet objects representative of connected devices.
  12. Segment Manager – BACnet MS/TP-based controller with web browser-based user interface for system control, scheduling, power monitoring, room device parameter administration and reporting.
  13. Programming and Configuration Software – Optional PC-native application capable of accessing control parameters within a room, for the local network, via a USB adapter, or globally, for many segment networks simultaneously, via BACnet/IP communication.
  14. Digital Lighting Management Relay Panel and Zone Controller – Provides up to 8, 24, or 48 mechanically latching relays. Relays include a manual override and a single push-on connector for easy installation or removal from the panel. Panel accepts program changes from handheld configuration tool for date and time, location, holidays, event scheduling, button binding and group programming. Provides BACnet MS/TP-compliant digital networked communication between other lighting controls and/or building automation system (BAS). Zero relay Zone Controller primarily supports Digital Fixture Controller applications.

15. Emergency Lighting Control Unit (ELCU) – Allows a standard lighting control device to control emergency lighting in conjunction with normal lighting in any area within a building

#### 1.4 LIGHTING CONTROL APPLICATIONS

- A. Unless relevant provisions of the applicable local energy codes are more stringent, provide a minimum application of lighting controls as follows:
  1. Space Control Requirements – Provide occupancy/vacancy sensors with Manual- or Partial-ON functionality in all spaces except toilet rooms, storerooms, library stacks, or other applications where hands-free operation is desirable and Automatic-ON occupancy sensors are more appropriate. Provide Manual-ON occupancy/vacancy sensors for any enclosed office, conference room, meeting room, open plan system and training room. For spaces with multiple occupants, or where line-of-sight may be obscured, provide ceiling- or corner-mounted sensors and Manual-ON switches.
  2. Bi-Level Lighting – Provide multi-level controls in all spaces except toilet rooms, storerooms, library stacks, or applications where variable dimming is used.
  3. Task Lighting / Plug Loads – Provide automatic shut off of non essential plug loads and task lighting in all spaces except toilet rooms and storerooms. Provide Automatic-ON of plug loads whenever spaces are occupied. For spaces with multiple occupants a single shut off consistent with the overhead lighting may be used for the area.
  4. Daylit Areas – Provide daylight-responsive automatic control in all spaces (conditioned or unconditioned) where daylight contribution is available as defined by relevant local building energy code:
    - a. All luminaires within code-defined daylight zones shall be controlled separately from luminaires outside of daylit zones.
    - b. Daytime setpoints for total ambient illumination (combined daylight and electric light) levels that initiate dimming shall be programmed in compliance with relevant local building energy codes.
    - c. Multiple-level switched daylight harvesting controls may be utilized for areas marked on drawings.
    - d. Provide smooth and continuous daylight dimming for areas marked on drawings. Daylighting control system may be designed to turn off electric lighting when daylight is at or above required lighting levels, only if system functions to turn lamps back on at dimmed level, rather than turning full-on prior to dimming.
  5. Conference, meeting, training, auditoriums, and multipurpose rooms shall have controls that allow for independent control of each local control zone. Rooms larger than 300 square feet shall instead have at least four preset lighting scenes unless otherwise specified. Occupancy / vacancy sensors shall be provided to turn off all lighting in the space. Spaces with up to four moveable walls shall include controls that can be reconfigured when the room is partitioned.

#### 1.5 SUBMITTALS

- A. Submittals Package: Submit the shop drawings, and the product data specified below at the same time as a package.
- B. Shop Drawings:

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1. Composite wiring and/or schematic diagram of each control circuit as proposed to be installed.
2. Show exact location of all digital devices, including at minimum sensors, load controllers, and switches for each area on reflected ceiling plans. (Contractor must provide AutoCAD format reflected ceiling plans.)
3. Provide room/area details including products and sequence of operation for each room or area. Illustrate typical acceptable room/area connection topologies.
4. Network riser diagram including floor and building level details. Include network cable specification and end-of-line termination details, if required. Illustrate points of connection to integrated systems. Coordinate integration with mechanical and/or other trades.

C. Product Data: Catalog sheets, specifications and installation instructions.

D. Include data for each device which:

1. Indicates where sensor is proposed to be installed.
2. Prove that the sensor is suitable for the proposed application.

#### 1.6 QUALITY ASSURANCE

A. Manufacturer: Minimum 10 years experience in manufacture of lighting controls.

#### 1.7 PROJECT CONDITIONS

- A. Do not install equipment until following conditions can be maintained in spaces to receive equipment:
1. Ambient temperature: 0° to 40° C (32° to 104° F).
  2. Relative humidity: Maximum 90 percent, non-condensing.

#### 1.8 WARRANTY

A. Provide a five year limited manufacturer's warranty on all room control devices and panels.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer:
1. Basis of design product: Lutron Quantum to match campus standard.

#### 2.2 DIGITAL LIGHTING CONTROLS – GENERAL REQUIREMENTS

- A. Furnish the Company's system which accommodates the square-footage coverage requirements for each area controlled, utilizing control modules, digital occupancy sensors, switches, daylighting sensors and accessories which suit the lighting and electrical system parameters.

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- B. Shade Control Requirements:
  - 1. Capable of operating shades and recalling shade presets via keypad, contact closure input, infrared receiver, lighting management software, or other lighting control system interface.
  - 2. Capable of operating any individual, group, or subgroup of shade electronic drive units within system without requiring separate group controllers.
  - 3. Capable of assigning and reassigning individual, groups, and subgroups of shades to any control within system without requiring additional wiring or hardware changes.
  - 4. Provide 10 year power failure memory for preset stops, open and close limits, shade grouping and sub grouping and system configuration.
  - 5. Capable of synchronizing multiple shade electronic drive units of the same size to start, stop and move in unison.
  - 6. Capable of stopping shades within accuracy of 0.125 inch (3.17 mm) at any point between open and close limits.
  - 7. Capable of controlling lights and shades from single wall control button.
  - 8. Capable of adjusting shade limits from user interface.
- C. Switching Requirements
  - 1. Rated Life of Relays: Typical of 1,000,000 cycles at fully rated 16 A for all lighting loads.
  - 2. Switch load in a manner that prevents arcing at mechanical contacts when power is applied to and removed from load circuits.
  - 3. Provide output fully rated for continuous duty for inductive, capacitive, and resistive loads.
- D. Device Finishes
  - 1. Coordinate with Architect.
- E. Interface with building automation system as specified in Section 230900.

### 2.3 LOCAL NETWORK

- A. The local network is a free topology lighting control physical connection and communication protocol designed to control a small area of a building.
- B. Features of the local network include:
  - 1. Automatic configuration and binding of occupancy sensors, switches and lighting loads to the most energy-efficient sequence of operation based upon the device attached.
  - 2. Simple replacement of any device in the local network with a standard off the shelf unit without requiring significant commissioning, configuration or setup.
  - 3. Configuration to change the automatic configuration, including binding and load parameters without tools, using only the buttons on the digital devices in the local network.
  - 4. Two-way infrared communications for control by handheld remotes, and configuration by a handheld tool including adjusting load parameters, sensor configuration and binding, within a line of sight of up to 30 feet from a sensor, wall switch or IR receiver.
- C. Digital local devices connect to the local network via QS link wiring as required by manufacturer.

2.4 LIGHTING CONTROL MODULES (ROOM, PLUG LOAD AND FIXTURE CONTROLLERS)

- A. Provide lighting control modules as indicated on the drawings.
- B. General Requirements:
1. Listed to UL 508 as industrial control equipment.
  2. Delivered and installed as a listed factory-assembled panel.
  3. Passively cooled via free-convection, unaided by fans or other means.
  4. Mounting: Surface.
  5. Connection without interface to wired:
    - a. Occupancy sensors.
    - b. Daylight sensors.
    - c. IR receivers for personal control.
  6. Connects to lighting management hub via RS485.
  7. LED status indicators confirm communication with occupancy sensors, daylight sensors, and IR receivers.
  8. Contact Closure Input:
    - a. Directly accept contact closure input from a dry contact closure or solid-state output without interface to:
      - 1) Activate scenes:
        - a) Scene activation from momentary or maintained closure.
      - 2) Enable or disable after hours.
        - a) Automatic sweep to user-specified level after user-specified time has elapsed.
        - b) System will provide occupants a visual warning prior to sweeping lights to user-specified level.
        - c) Occupant can reset timeout by interacting with the lighting system.
      - 3) Activate or deactivate demand response (load shed).
        - a) Load shed event will reduce lighting load by user-specified amount.
  9. Emergency Contact Closure Input:
    - a. Turn all zones to full output during emergency state via direct contact closure input from UL 924 listed emergency lighting interface, security system or fire alarm system.
    - b. Allow configurable zone response during emergency state.
    - c. Disable control operation until emergency signal is cleared.
  10. Supplies power for control link for keypads and control interfaces.
  11. Distributes sensor data among multiple lighting control modules.
  12. Capable of being controlled via wireless sensors and controls.
  13. UL 2043 plenum rated.
  14. Manual override and LED indication for each load.
  15. Dual voltage (120/277 VAC, 60 Hz). Rated for 20A total load, derating to 16A required for some dimmed loads (forward phase dimming); plug load controllers carry application-specific UL 20 rating for receptacle control.
  16. Zero cross circuitry for each load.
  17. BACnet object information shall be available for the following objects:
    - a. Load status
    - b. Electrical current (when available)
    - c. Total watts per controller
    - d. Schedule state – normal or after-hours
    - e. Demand response enable and disable

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- f. Room occupancy status
  - g. Total room lighting and plug loads watts
  - h. Total room watts/sq ft
  - i. Force on/off all loads
18. Each load shall at a minimum be configurable to operate in the following sequences based on occupancy:
    - a. Auto-on/Auto-off (Follow on and off)
  19. Manual-on/Auto-off (Follow off only)
  20. Based on individual configuration, each load shall be capable of the following behavior on power up following the loss of normal power:
    - a. Turn on to 100%
    - b. Turn off
    - c. Turn on to last level
  21. All digital parameter data programmed into an individual room controller or plug load controller shall be retained in non-volatile FLASH memory within the controller itself. Memory shall have an expected life of no less than 10 years.
  22. Lutron Energi Savr Node QSN-4T20-S
- C. On/Off/Dimming enhanced Room Controllers shall include:
1. Real time current monitoring
  2. Four relay configurations
  3. Efficient 250 mA switching power supply
  4. Four RJ-45 local network ports with integral strain relief and dust cover
  5. One dimming output per relay
    - a. 0-10V Dimming - Where indicated, one 0-10 volt analog output per relay for control of compatible LED drivers. The 0-10 volt output shall automatically open upon loss of power to the Energi Savr Node to assure full light output from the controlled lighting.
    - b. Line Voltage, Forward Phase Dimming - Where indicated, one forward phase control line voltage dimming output per relay for control of compatible two-wire or three-wire ballasts, LED drivers, MLV, forward phase compatible ELV, neon/cold cathode and incandescent loads.
    - c. Each dimming output channel shall have an independently configurable minimum and maximum calibration trim level to set the dimming range to match the true dynamic range of the connected ballast or driver.
    - d. The LED level indicators on bound dimming switches shall utilize this new maximum and minimum trim.
    - e. Each dimming output channel shall have an independently configurable minimum and maximum trim level to set the dynamic range of the output within the new 0-100% dimming range defined by the minimum and maximum calibration trim.
    - f. Calibration and trim levels must be set per output channel.
    - g. Devices that set calibration or trim levels per controller are not acceptable.
    - h. All configuration shall be digital. Devices that set calibration or trim levels per output channel via trim pots or dip-switches are not acceptable.
  6. Each load shall have an independently configurable preset on level for Normal Hours and After Hours events to allow different dimmed levels to be established at the start of both Normal Hours and After Hours events.
  7. Fade rates for dimming loads shall be specific to bound switch buttons, and the load shall maintain a default value for any bound buttons that do not specify a unique value.
  8. The following dimming attributes may be changed or selected using a wireless configuration tool:

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- a. Establish preset level for each load from 0-100%
  - b. Set high and low trim for each load
  - c. Set lamp burn in time for each load up to 100 hours
  9. Override button for each load provides the following functions:
  10. Lutron Quantum product numbers: QSN-4T16-S, QSN-4T20-S, QSN-4S16-S, QSN-4T20-S
- D. Plug Load Controllers shall include:
1. Four relay configuration.
  2. Configurable additive time delay to extend plug load time delay beyond occupancy sensor time delay (e.g. a 10 minute additive delay in a space with a 20 minute occupancy sensor delay ensures that plug loads turn off 30 minutes after the space is vacated).
  3. Factory default operation is Auto-on/Auto-off, based on occupancy
  4. Real time current monitoring of both switched and un-switched load.
  5. QS communication link.
  6. Efficient switching power supply
    - a. 150mA
    - b. 250mA
  7. Lutron Quantum product numbers: QSN-4S20-S.

## 2.5 DIGITAL WALL OR CEILING MOUNTED OCCUPANCY SENSOR

- A. Wall or ceiling mounted (to suit installation) passive infrared (PIR), ultrasonic or dual technology digital (passive infrared and ultrasonic) occupancy sensor.
- B. Digital Occupancy Sensors shall provide graphic LCD display for digital calibration and electronic documentation. Features include the following:
  1. Digital calibration and pushbutton configuration for the following variables:
    - a. Sensitivity – 0-100% in 10% increments
    - b. Time delay – 1-30 minutes in 1 minute increments
    - c. Test mode – Five second time delay
    - d. Detection technology – PIR, Ultrasonic or Dual Technology activation and/or re-activation.
    - e. Walk-through mode
  2. Load parameters including Auto/Manual-ON, blink warning, and daylight enable/disable when photosensors are included in the local network.
  3. Programmable control functionality including:
    - a. Each sensor may be programmed to control specific loads within a local network.
    - b. Sensor shall be capable of activating one of 16 user-definable lighting scenes.
    - c. Adjustable retrigger time period for manual-on loads. Load will retrigger (turn on) automatically within a configurable period of time (default 10 seconds) after turning off.
    - d. On dual technology sensors, independently configurable trigger modes are available for both Normal (NH) and After Hours (AH) time periods. The retrigger mode can be programmed to use the following technologies:
      - e. Ultrasonic and Passive Infrared
      - f. Ultrasonic or Passive Infrared
      - g. Ultrasonic only
      - h. Passive Infrared only

- i. Independently configurable sensitivity settings for passive infrared and ultrasonic technologies (on dual technology sensors) for both Normal (NH) and After Hour (AH) time periods.
  4. Wired connection to lighting control network.
  5. Two-way infrared (IR) transceiver to allow remote programming through handheld commissioning tool and control by remote personal controls.
  6. Device Status LEDs, which may be disabled for selected applications, including:
    - a. PIR detection
    - b. Ultrasonic detection
    - c. Configuration mode
    - d. Load binding
  7. Assignment of occupancy sensor to a specific load within the room.
  8. Manual override of controlled loads.
  9. All digital parameter data programmed into an individual occupancy sensor shall be retained in non-volatile FLASH memory within the sensor itself. Memory shall have an expected life of no less than 10 years.
- C. BACnet object information shall be available for the following objects:
  1. Detection state.
  2. Occupancy sensor time delay.
  3. Occupancy sensor sensitivity, PIR and Ultrasonic.
- D. Units shall not have any dip switches or potentiometers for field settings.
- E. Multiple occupancy sensors may be installed in a room by simply connecting them to the free topology local network. No additional configuration will be required.
- F. Lutron Quantum product numbers: LOS C Series and LOS W Series

## 2.6 DIGITAL WALL SWITCH OCCUPANCY SENSORS

- A. Wallbox mounted passive infrared PIR or dual technology (passive infrared and ultrasonic) digital occupancy sensor with 1 or 2 switch buttons.
- B. Digital Occupancy Sensors shall provide scrolling LCD display for digital calibration and electronic documentation. Features include the following:
  1. Digital calibration and pushbutton configuration for the following variables:
    - a. Sensitivity – 0-100% in 10% increments
    - b. Time delay – 1-30 minutes in 1 minute increments
    - c. Test mode – Five second time delay
    - d. Detection technology – PIR, Dual Technology activation and/or re-activation.
    - e. Walk-through mode
    - f. Load parameters including Auto/Manual-ON, blink warning, and daylight enable/disable when photosensors are included in the local network.
  2. Programmable control functionality including:
    - a. Each sensor may be programmed to control specific loads within a local network.
    - b. Sensor shall be capable of activating one of 16 user-definable lighting scenes.
    - c. Adjustable retrigger time period for manual-on loads. Load will retrigger (turn on) automatically during the configurable period of time (default 10 seconds) after turning off.



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- d. On dual technology sensors, independently configurable trigger modes are available for both Normal (NH) and After Hours (AH) time periods. The retrigger mode can be programmed to use the following technologies:
    - 1) Ultrasonic and Passive Infrared
    - 2) Ultrasonic or Passive Infrared
    - 3) Ultrasonic only
    - 4) Passive Infrared only
  3. Independently configurable sensitivity settings for passive infrared and ultrasonic technologies (on dual technology sensors) for both Normal (NH) and After Hour (AH) time periods.
  4. Wired connection to lighting control network.
  5. Two-way infrared (IR) transceiver to allow remote programming through handheld configuration tool and control by remote personal controls.
  6. Device Status LEDs including
    - a. PIR detection
    - b. Ultrasonic detection
    - c. Configuration mode
    - d. Load binding
  7. Assignment of any occupancy sensor to a specific load within the room without wiring or special tools.
  8. Assignment of local buttons to specific loads within the room without wiring or special tools
  9. Manual override of controlled loads
  10. All digital parameter data programmed into an individual wall switch sensor shall be retained in non-volatile FLASH memory within the wall switch sensor itself. Memory shall have an expected life of no less than 10 years.
- C. BACnet object information shall be available for the following objects:
1. Detection state
  2. Occupancy sensor time delay
  3. Occupancy sensor sensitivity, PIR and Ultrasonic
  4. Button state
  5. Switch lock control
  6. Switch lock status
- D. Units shall not have any dip switches or potentiometers for field settings.
- E. Multiple occupancy sensors may be installed in a room by simply connecting them to the free topology local network. No additional configuration will be required.
- F. Two-button wall switch occupancy sensors, when connected to a single relay dimming room or fixture controller, shall operate in the following sequence as a factory default:
1. Left button
    - a. Press and release - Turn load on
    - b. Press and hold - Raise dimming load
  2. Right button
    - a. Press and release - Turn load off
    - b. Press and hold - Lower dimming load
- G. Low voltage momentary pushbuttons shall include the following features:
1. Load/Scene Status LED on each switch button with the following characteristics:

- a. Bi-level LED
- b. Dim locator level indicates power to switch
- c. Bright status level indicates that load or scene is active
2. The following button attributes may be changed or selected using a wireless configuration tool:
  - a. Load and Scene button function may be reconfigured for individual buttons (from Load to Scene, and vice versa).
  - b. Individual button function may be configured to Toggle, On only or Off only.
  - c. Individual scenes may be locked to prevent unauthorized change.
  - d. Fade Up and Fade Down times for individual scenes may be adjusted from 0 seconds to 18 hours.
  - e. Ramp rate may be adjusted for each dimmer switch.
  - f. Switch buttons may be bound to any load on any load controller or relay panel and are not load type dependent; each button may be bound to multiple loads.
  - g. Lutron Quantum part numbers: Maestro Series. Available in white, light almond, ivory, grey, red and black; compatible with wall plates with decorator opening. Verify color with Architect.

## 2.7 DIGITAL WALL SWITCHES

- A. Low voltage momentary pushbutton switches in 1, 2, 3, 4, 5 and 7 button configuration. Wall switches shall include the following features:
  1. Two-way infrared (IR) transceiver for use with personal and configuration remote controls.
  2. Removable buttons for field replacement with engraved buttons and/or alternate color buttons. Button replacement may be completed without removing the switch from the wall.
  3. Configuration LED on each switch that blinks to indicate data transmission.
  4. Load/Scene Status LED on each switch button with the following characteristics:
    - a. Bi-level LED
    - b. Dim locator level indicates power to switch
    - c. Bright status level indicates that load or scene is active
    - d. Dimming switches shall include seven bi-level LEDs to indicate load levels using 14 steps.
  5. Programmable control functionality including:
    - a. Button priority may be configured to any BACnet priority level, from 1-16, corresponding to networked operation allowing local actions to utilize life safety priority
    - b. Scene patterns may be saved to any button other than dimming rockers. Once set, buttons may be digitally locked to prevent overwriting of the preset levels.
  6. All digital parameter data programmed into an individual wall switch shall be retained in non-volatile FLASH memory within the wall switch itself. Memory shall have an expected life of no less than 10 years.
- B. BACnet object information shall be available for the following objects:
  1. Button state
  2. Switch lock control
  3. Switch lock status
- C. Wired connection to lighting control network.

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- D. Multiple digital wall switches may be installed in a room by simply connecting them to the free topology local network. No additional configuration shall be required to achieve multi-way switching.
- E. The following switch attributes may be changed or selected using a wireless configuration tool:
- F. Load and Scene button function may be reconfigured for individual buttons (from Load to Scene, and vice versa).
  - 1. Individual button function may be configured to Toggle, On only or Off only.
  - 2. Individual scenes may be locked to prevent unauthorized change.
  - 3. Fade Up and Fade Down times for individual scenes may be adjusted from 0 seconds to 18 hours.
  - 4. Ramp rate may be adjusted for each dimmer switch.
  - 5. Switch buttons may be bound to any load on any load controller or relay panel and are not load type dependant; each button may be bound to multiple loads.
  - 6. Lutron Quantum product numbers: seeTouch QS series, Pico wired control series, Ecosystem wallstation. Available in white, light almond, ivory, grey, red and black; compatible with wall plates with decorator opening. Verify color with Architect.

## 2.8 HANDHELD USER INTERFACE REMOTES

- A. Battery-operated handheld devices in 1, 2 and 5 button configurations for remote switching or dimming control. Remote controls shall include the following features:
  - 1. Two-way infrared (IR) transceiver for line of sight communication with local network within up to 30 feet.
  - 2. LED on each button confirms button press.
  - 3. Load buttons may be bound to any load on a load controller or relay panel and are not load type dependant; each button may be bound to multiple loads.
  - 4. Inactivity timeout to save battery life.
- B. A wall mount holster and mounting hardware shall be included with each remote control
- C. Lutron Quantum part numbers: IR Remote.

## 2.9 DIGITAL DAYLIGHTING SENSORS

- A. Digital daylighting sensors shall work with load controllers and relay panels to provide automatic switching, bi-level, or tri-level or dimming daylight harvesting capabilities for any load type connected to the controller or panel. Daylighting sensors shall be interchangeable without the need for rewiring.
  - 1. Closed loop sensors measure the ambient light in the space and control a single lighting zone.
  - 2. Open loop sensors measure incoming daylight in the space, and are capable of controlling up to three lighting zones.
  - 3. Dual loop sensors measure both ambient and incoming daylight in the space to insure that proper light levels are maintained as changes to reflective materials are made in a single zone.
- B. Digital daylighting sensors shall include the following features:

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1. The sensor's internal photodiode shall only measure lightwaves within the visible spectrum. The photodiode's spectral response curve shall closely match the entire photopic curve. The photodiode shall not measure energy in either the ultraviolet or infrared spectrums. The photocell shall have a sensitivity of less than 5% for any wavelengths less than 400 nanometers or greater than 700 nanometers.
  2. Sensor light level range shall be from 1-6,553 footcandles (fc).
  3. The capability of ON/OFF, bi-level or tri-level switching, or dimming, for each controlled zone, depending on the selection of load controller(s) and load binding to controller(s).
  4. For switching daylight harvesting, the photosensor shall provide a field-selectable deadband, or a separation, between the "ON Setpoint" and the "OFF Setpoint" that will prevent the lights from cycling excessively after they turn off.
  5. For dimming daylight harvesting, the photosensor shall provide the option, when the daylight contribution is sufficient, of turning lights off or dimming lights to a field-selectable minimum level.
  6. Photosensors shall have a digital, independently configurable fade rate for both increasing and decreasing light level in units of percent per second.
  7. Photosensors shall provide adjustable cut-off time. Cut-off time is defined by the number of selected minutes the load is at the minimum output before the load turns off. Selectable range between 0-240 minutes including option to never cut-off.
  8. Optional wall switch override shall allow occupants to reduce lighting level to increase energy savings or, if permitted by system administrator, raise lighting levels for a selectable period of time or cycle of occupancy.
  9. Integral infrared (IR) transceiver for configuration and/or commissioning with a handheld configuration tool, to transmit detected light level to wireless configuration tool, and for communication with personal remote controls.
  10. Configuration LED status light on device that blinks to indicate data transmission.
  11. Status LED indicates test mode, override mode and load binding.
  12. Recessed switch on device to turn controlled load(s) ON and OFF.
  13. BACnet object information shall be available for the following daylighting sensor objects, based on the specific photocell's settings:
    - a. Light level
    - b. Day and night setpoints
    - c. Off time delay
    - d. On and off setpoints
    - e. Up to three zone setpoints
    - f. Operating mode – on/off, bi-level, tri-level or dimming
  14. Wired connection to lighting control network.
  15. A choice of accessories to accommodate multiple mounting methods and building materials. The photosensors may be mounted on a ceiling tile, skylight light well, suspended lighting fixture or backbox.
  16. Any load or group of loads in the room can be assigned to a daylighting zone
  17. Each load within a daylighting zone can be individually enabled or disabled for discrete control (load independence).
  18. All digital parameter data programmed into a photosensor shall be retained in non-volatile FLASH memory within the photosensor itself. Memory shall have an expected life of no less than 10 years.
- C. Lutron Quantum part number: Radio Powr Savr ceiling mount daylight sensor (wired).

## 2.10 DIGITAL PARTITION CONTROLS

- A. Partition controls shall enable manual or automatic coordination of lighting controls in flexible spaces with up to four moveable walls by reconfiguring the connected digital switches and occupancy sensors.
- B. Four-button low voltage pushbutton switch for manual control.
  - 1. Two-way infrared (IR) transceiver for use with configuration remote control.
  - 2. Removable buttons for field replacement with engraved buttons and/or alternate color buttons. Button replacement may be completed without removing the switch from the wall.
  - 3. Configuration LED on each switch that blinks to indicate data transmission.
  - 4. Each button represents one wall; Green button LED indicates status.
  - 5. Wired connection to lighting control network.
  - 6. Lutron Quantum part number: seeTouch partition status. Available in white, light almond, ivory, grey and black; compatible with wall plates with decorator opening. Verify color with Architect.
- C. Contact closure interface for automatic control via input from limit switches on movable walls (by others).
  - 1. Operates on Class 2 power supplied by local network.
  - 2. Includes 24VDC output and four input terminals for maintained third party contract closure inputs.
  - 3. Input max. sink/source current: 1-5mA
    - a. Logic input signal voltage High: >18VDC
    - b. Logic input signal voltage Low: <2VDC
  - 4. Five status LEDs under hinged cover indicate if walls are open or closed.
  - 5. Wired connection to lighting control network.
  - 6. Lutron Quantum part number: QSE-IO
- D. Partition Status Sensor.
  - 1. Infrared transmitter/receiver pair detects partition movement and coordinates lighting preset functions.
  - 2. Automatically combines lighting preset functions when partition is open creating one large space.
  - 3. Lighting preset functions become independent as partition is closed creating several smaller spaces.
  - 4. Requires contact closure input/output interface or QS seeTouch keypad for operation.
  - 5. Lutron Quantum part number: GRX-IRPS-WH

## 2.11 HANDHELD AND COMPUTER CONFIGURATION TOOLS

- A. A wireless configuration tool facilitates optional customization of local networks using two-way infrared communications, while PC software connects to each local network via a USB interface.
- B. Features and functionality of the wireless configuration tool shall include but not be limited to:
  - 1. Two-way infrared (IR) communication with IR-enabled devices within a range of approximately 30 feet.

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2. High visibility organic LED (OLED) display, pushbutton user interface and menu-driven operation.
3. Must be able to read and modify parameters for load controllers and relay panels, occupancy sensors, wall switches, daylighting sensors, network bridges, and identify devices by type and serial number.
4. Save up to eight occupancy sensor setting profiles, and apply profiles to selected sensors.
5. Temporarily adjust light level of any load(s) on the local network, and incorporate those levels in scene setting. Set room mode for testing of Normal Hours (NH) and After Hours (AH) parameter settings.
6. Adjust or fine-tune daylighting settings established during auto-configuration, and input light level data to complete configuration of open loop daylighting controls.
7. Set room mode for testing of Normal Hours (NH) and After Hours (AH) parameter settings.
8. Verify status of building level network devices.

C. Lutron Quantum Product Numbers: IR remote C-FLRC-WH.

## 2.12 NETWORK LIGHT MANAGEMENT HUB

- A. The light management hub shall be a linear topology, BACnet-based MS/TP subnet to connect local networks and relay panels for centralized control.
1. Provides a centralized connection point for dimming and switching panels, and Lutron QS devices, including Energi Savr Node modules, GRAFIK Eye QS main units, and Sivoia QS shade.
  2. Contains one Quantum processor with two links that can be individually configured to communicate with:
    - a. Lutron power panels
    - b. Lutron QS devices
  3. Designed to control, manage, and monitor lighting and shade systems in a building or a whole campus.
  4. Enables a Quantum system to scale from a single-floor to a whole campus.
  5. Supports both astronomic and time-of-day events to automatically control the lights and shades in the system.
  6. Allows for simple reconfiguration of a space without rewiring.
  7. Ability to connect to additional Quantum light management hubs.
  8. Light management hubs communicate via Ethernet.
  9. QS and power panel links are wired low-voltage.
  10. Connect to BACnet via Quantum Ethernet Network.
- B. Lutron Quantum Product Number: QP3-1PL-100-240

## 2.13 0-10V DIMMING PANELS

- A. Dimming panel that contains relays and branch circuit breakers to allow control of exterior lights.
1. 120V-277V input.
  2. Complies with ISO-9000
  3. Seismic Certified
  4. 10-year power failure memory

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- a. Automatically restores lighting to levels prior to power interruption.
5. System Communications:
  - a. Low-voltage Class 2 wiring connects 0-10V dimming panels to other components.
6. Surface mount.

B. Lutron Quantum Product Number: CXP series.

2.14 PROGRAMMING, CONFIGURATION AND DOCUMENTATION SOFTWARE

- A. PC-native application for optional programming of detailed technician-level parameter information for all products, including all parameters not accessible via BACnet and the handled IR configuration tool. Software must be capable of accessing room-level parameter information locally within the room, or globally for many segment networks simultaneously utilizing standard BACnet/IP communication.
- B. Additional parameters exposed through this method include but are not limited to:
  1. Occupancy sensor detection LED disable for performance and other aesthetic spaces where blinking LEDs present a distraction.
  2. Six occupancy sensor action behaviors for each controlled load, separately configurable for normal hours and after hours modes. Modes include: No Action, Follow Off Only, Follow On Only, Follow On and Off, Follow On Only with Override Time Delay, Follow Off Only with Blink Warn Grace Time, Follow On and Off with Blink Warn Grace Time.
  3. Separate fade time adjustments per load for both normal and after hours from 0 - 4 hours.
  4. Configurable occupancy sensor re-trigger grace period from 0 - 4 minutes separate for both normal hours and after hours.
  5. Separate normal hours and after hours per-load button mode with modes including: Do nothing, on only, off only, on and off.
  6. Load control polarity reversal so that on events turn loads off and vice versa.
  7. Per-load DR (demand response) shed level in units of percent.
  8. Load output pulse mode in increments of 1second.
  9. Fade trip point for each load for normal hours and after hours that establishes the dimmer command level at which a switched load closes its relay to allow for staggered On of switched loads in response to a dimmer.
  10. Generation of reports at the whole file, partial file, or room level. Reports include but are not limited to:
    - a. Device list report: All devices in a project listed by type.
    - b. Load binding report: All load controller bindings showing interaction with sensors, switches, and daylighting.
    - c. BACnet points report: Per room Device ID report of the valid BACnet points for a given site's BOM.
    - d. Room summary report: Device manifest for each room, aggregated by common BOM, showing basic sequence of operations.
    - e. Device parameter report: Per-room lists of all configured parameters accessible via hand held IR programmer for use with O&M documentation.
    - f. Scene report: All project scene pattern values not left at defaults (i.e. 1 = all loads 100%, 2 = all loads 75%, 3 = all loads 50%, 4 = all loads 25%, 5-16 = same as scene 1).
    - g. Occupancy sensor report: Basic settings including time delay and sensitivity(ies) for all occupancy sensors.

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- C. Network-wide programming of parameter data in a spreadsheet-like programming environment including but not limited to the following operations:
  - 1. Set, copy/paste an entire project site of sensor time delays.
  - 2. Set, copy/paste an entire project site of sensor sensitivity settings.
  - 3. Search based on room name and text labels.
  - 4. Filter by product type to allow parameter set by product.
  - 5. Filter by parameter value to search for product with specific configurations.
- D. Network-wide firmware upgrading remotely via the BACnet/IP network.
  - 1. Mass firmware update of entire rooms.
  - 2. Mass firmware update of specifically selected rooms or areas.
  - 3. Mass firmware upgrade of specific products.
- E. Energi Savr Node Programming Interface
  - 1. Provide equipment required for programming of system.
  - 2. Provide dedicated ethernet connection.

#### 2.15 EMERGENCY LIGHTING CONTROL DEVICES

- A. Emergency Lighting Control Unit – A UL 924 listed device that monitors a switched circuit providing normal lighting to an area. The unit provides normal ON/OFF control of emergency lighting along with the normal lighting. Upon normal power failure the emergency lighting circuit will close, forcing the emergency lighting ON until normal power is restored. Features include:
  - 1. 120/277 volts, 50/60 Hz, 20 amp ballast rating
  - 2. Push to test button
  - 3. Auxiliary contact for remote test or fire alarm system interface
- B. Lutron Quantum Product Numbers: LUT-ELI-3PH.

#### 2.16 POWER PACKS

- A. Provides both 24v power supply to operate Lutron sensors as well as the 20A line voltage relay to control the load in one compact housing.
  - 1. Models available for 120V ac and 277V ac.
  - 2. Relay contact rating:
    - a. 20A: 120/230/277 V ballast
    - b. 15A: 347 V ballast
    - c. 15A: 120V incandescent
  - 3. Auxiliary relay allows for direct control of multiple lighting circuits or load types.
  - 4. Supports up to three Lutron LOS-C or LOS-W series wired sensors and/or auxiliary relay.
  - 5. 24V DC, 100mA power output
- B. Lutron Quantum Product Number: PP-120H, PP-277H



### PART 3 - EXECUTION

#### 3.1 CONTRACTOR INSTALLATION AND SERVICES

- A. Contractor to install all devices and wiring in a professional manner. All line voltage connections to be tagged to indicate circuit and switched legs.
- B. Low voltage wiring topology must comply with manufacturer's specifications. Contractor shall route network wiring as shown in submittal drawings as closely as possible, and shall document final wiring location, routing and topology on as built drawings.
- C. Install the work of this Section in accordance with manufacturer's printed instructions unless otherwise indicated. Before start up, contractor shall test all devices to ensure proper communication.
- D. Calibrate all sensor time delays and sensitivity to guarantee proper detection of occupants and energy savings.
  - 1. Adjust time delay so that controlled area remains lighted while occupied.
- E. Provide written or computer-generated documentation on the configuration of the system including room by room description including:
  - 1. Sensor parameters, time delays, sensitivities, and daylighting setpoints.
  - 2. Sequence of operation, (e.g. manual ON, Auto OFF. etc.)
  - 3. Load Parameters (e.g. blink warning, etc.)
- F. Post start-up tuning – After 30 days from occupancy contractor shall adjust sensor time delays and sensitivities to meet the Owner's requirements. Provide a detailed report to the Architect / Owner of post start-up activity.

#### 3.2 FACTORY SERVICES

- A. Upon completion of the installation, the manufacturer's factory authorized representative shall start up and verify a complete fully functional system.
- B. The electrical contractor shall provide both the manufacturer and the electrical engineer with three weeks written notice of the system start up and adjustment date.
- C. Upon completion of the system start up, the factory-authorized technician shall provide the proper training to the owner's personnel on the adjustment and maintenance of the system.

#### 3.3 ACCEPTANCE TESTING SUPPORT SERVICES

- A. On all California projects, a certified lighting controls acceptance test technician (CLCATT) must verify the installation of the lighting control system. Manufacturer should include an extra day of factory technician's time to assist the CLCATT review the functionality and settings of the lighting control hardware per the requirements in the California State forms. It will be the CLCATT's responsibility to create and complete any forms required for the commissioning

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process, although the manufacturer or contractor may offer spreadsheets and/or printouts to assist the CLCATT with this task.

END OF SECTION 260923

**Attachment 3**

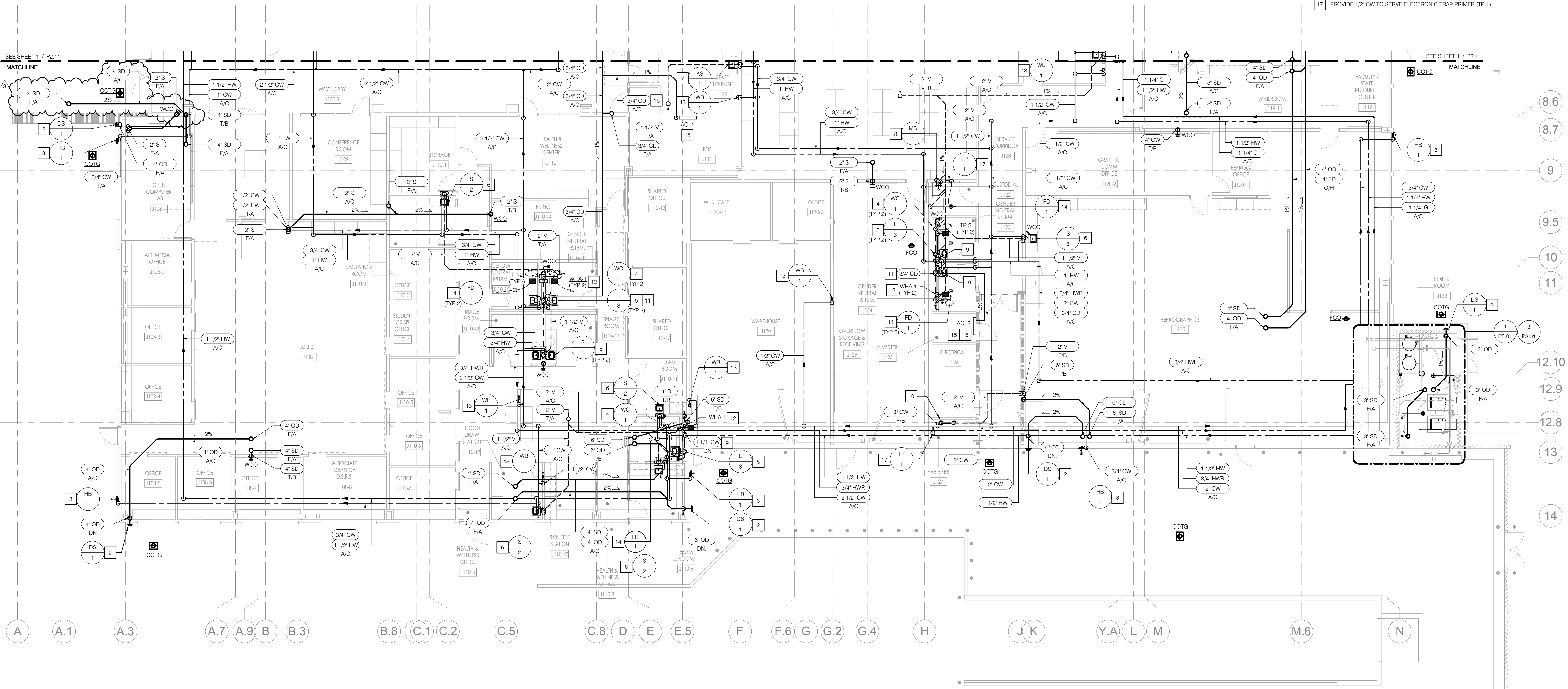
**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 09  
*(RSCCD USE ONLY):*

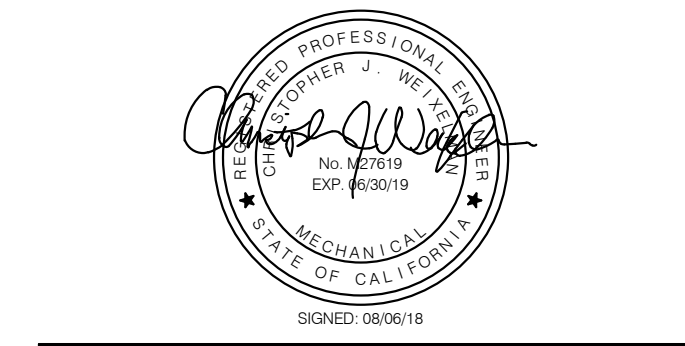
PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/13/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A6.10, Detail 13 P2.21 & P2.22
REQUESTED CLARIFICATION:			
Reference drawing A6.10, Detail 13 – Architectural drawing indicates trench drain at second floor, Stair 1, Keynote 221319.A4. Plumbing drawings P2.21 & P2.22 do not indicate a trench drain at this location. Please clarify.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
Refer to attached revised Plumbing sheets P2.12 & P2.22 showing the added trench drains (TD-1) with associated piping as part of Addendum 3.			
RESPONSE PROVIDED BY:	Eric Gomez - P2S Inc.	DATE:	09/17/18

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*



- NOTES**
- 1 FOR CONTINUATION REFER TO PLUMBING SITE PLAN SHEET P1.01.
  - 2 OVERFLOW DRAIN DISCHARGE TO GRADE. TERMINATE THROUGH WALL WITH DOWNSPOUT NOZZLE (DS-1) @ 18" A.F.F.
  - 3 PROVIDE 3/4" CW DOWN IN WALL WITH FULL-PORT SHUT-OFF VALVE BEHIND ACCESS PANEL. TO SERVE HOSE BIB (HB-1). REFER TO DETAIL 3/P.01
  - 4 PROVIDE 4" S DOWN, 2" V UP, 1-1/2" CW TO SERVE WATER CLOSET (WC-1).
  - 5 PROVIDE 2" S DOWN, 1-1/2" V UP, 1/2" CW & 1/2" HW TO SERVE LAVATORY (L-3).
  - 6 PROVIDE 2" S DOWN, 1-1/2" V UP, 1/2" CW & 1/2" HW TO SERVE SINK (S-1/S-2/S-3).
  - 7 PROVIDE 2" S DOWN, 1-1/2" V UP, 1/2" CW & 1/2" HW TO SERVE KITCHEN SINK (KS-1).
  - 8 PROVIDE 3" S DOWN, 2" V UP, 3/4" CW & 3/4" HW TO SERVE MOP SINK (MS-1). PROVIDE FULL-PORT SHUT-OFF VALVES BEHIND ACCESS PANEL.
  - 9 PROVIDE 1-1/2" CW DOWN IN WALL TO FULL SIZE HEADER AND 1/2" HW DOWN IN WALL TO SERVE LAVATORY (L-3). PROVIDE FULL-PORT SHUT-OFF VALVES BEHIND ACCESS.
  - 10 HUB DRAIN FOR FIRE SPRINKLER SYSTEM DISCHARGE. REFER TO DETAIL 5/P.02.
  - 11 ROUTE 3/4" CD DOWN IN WALL TO LAVATORY TAILPIPE PIPE CONNECTOR. REFER TO DETAIL 4/P.03.
  - 12 PROVIDE WATER HAMMER ARRESTOR (WHA-1) BEHIND ACCESS PANEL.
  - 13 PROVIDE 1/2" CW DOWN IN WALL TO SERVE WATER BOX (WB-1). PROVIDE SUPPLY TUBING LINES FROM WATER BOX TO REFRIGERATOR(S) AND ICE MAKER(S).
  - 14 PROVIDE 2" S DOWN AND 1-1/2" V UP TO SERVE FLOOR DRAIN (FD-1). ROUTE 1/2" TP BELOW FLOOR FROM TRAP PRIMER ASSEMBLY. REFER TO DETAIL 1 & 2 ON P.01.
  - 15 MECHANICAL EQUIPMENT (NOT IN PLUMBING SCOPE) REFER TO MECHANICAL DRAWINGS FOR UNIT DESCRIPTION AND INFORMATION.
  - 16 ROUTE 3/4" CD FROM CONDENSATE PUMPS OUTLET AND RUN ABOVE CEILING TOWARDS RECEPTOR WITH 1% MIN. SLOPE. CONDENSATE PUMP SHALL BE FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY PLUMBER CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. AVOID RUNNING OVER ELECTRICAL AND TELECOM ROOMS. REFER TO DETAIL 5/P.03.
  - 17 PROVIDE 1/2" CW TO SERVE ELECTRONIC TRAP PRIMER (TP-1).



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
FILE: 30-C2  
A# 04-116810  
AC FLS SS  
DATE

PROJECT TITLE  
**JOHNSON STUDENT CENTER**  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706

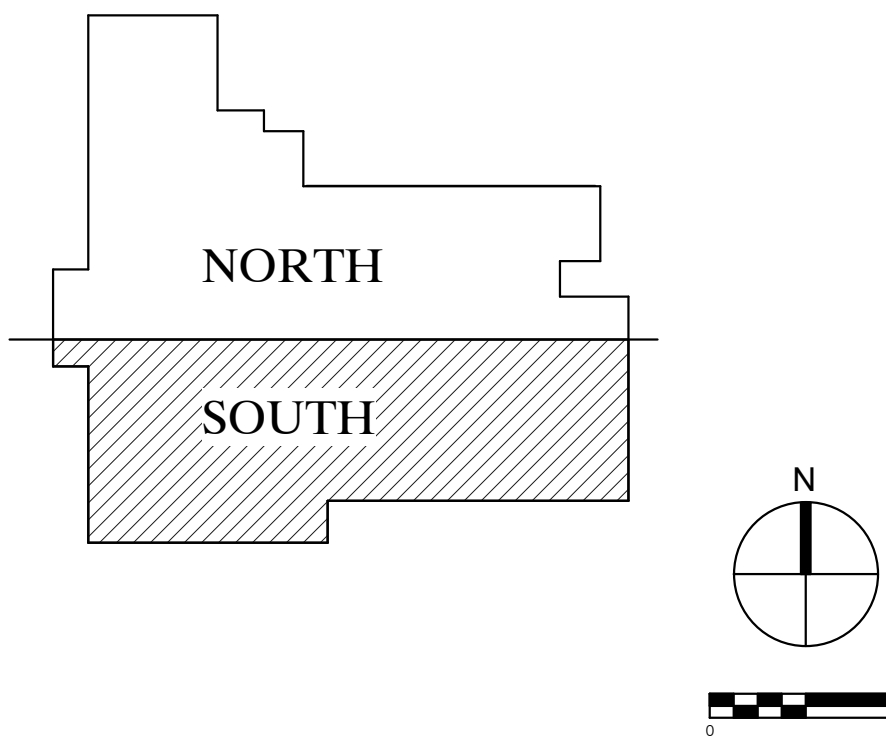


SUBMITTALS		
#	DATE	DESCRIPTION
1	05/18/18	HEALTH DEPT. SUBMITTAL
2	08/13/18	DSA FINAL SUBMITTAL
3	09/24/18	ADDENDUM 3

PROJECT IDENTIFICATION 7411  
THESE DRAWINGS ORIGINALLY CREATED IN AUTODESK REVIT V. 2016  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

DRAWN BY M. Alcantara  
CHECKED BY E. Gomez  
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATION EXCEPT AS DESCRIBED ON THE DRAWINGS, WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

© HILL PARTNERSHIP INC. 2015  
SHEET TITLE  
**FIRST FLOOR PLAN - SOUTH**  
SHEET NUMBER



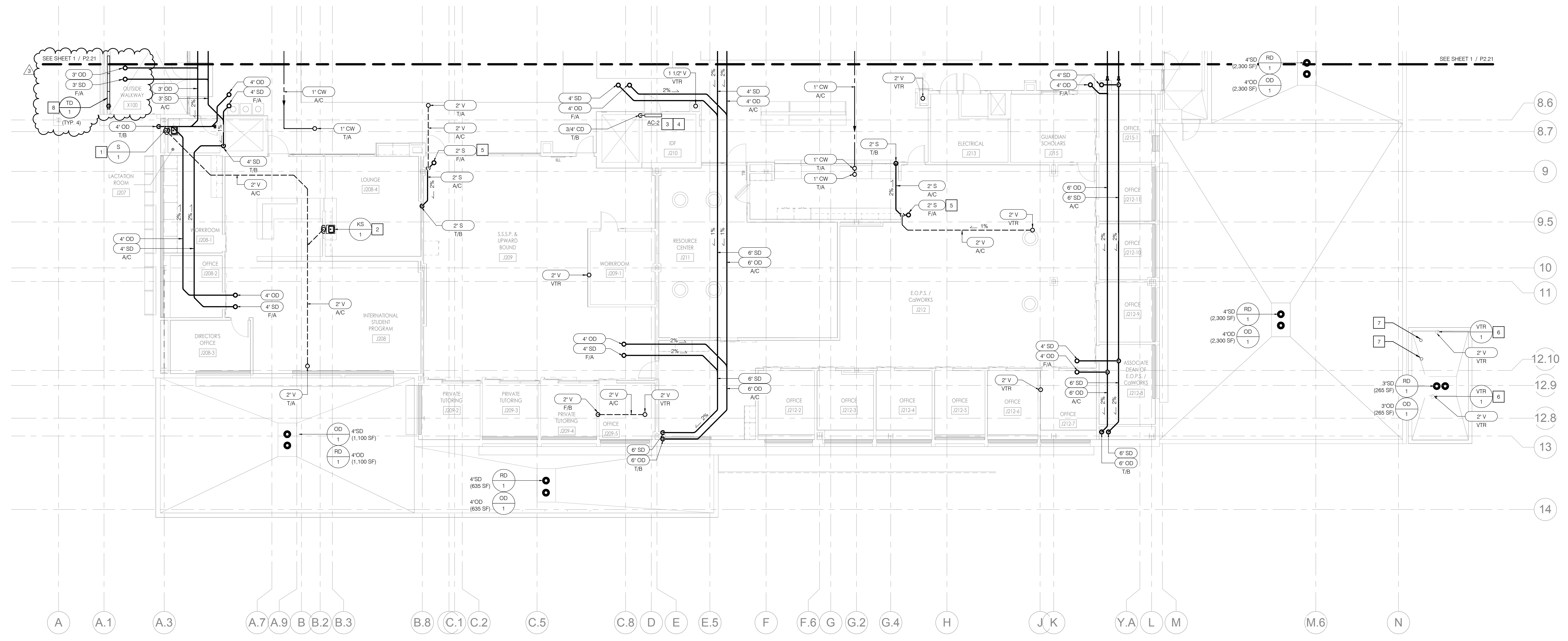
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9/14/2018 5:17:00 PM

**GENERAL NOTES**

- FOR ROOF DRAIN/OVERFLOW DRAIN INSTALLATION REFER TO ARCHITECTURAL DETAILS 1/A9.30 & 2/A9.30.
- FOR VENT PIPE FLASHING AND PIPE FLASHING THROUGH ROOF REFER TO ARCHITECTURAL DETAILS 3/A9.30 & 8/A9.30.
- ROOF DRAINAGE IS BASED ON 3"HR RAINFALL RATE.

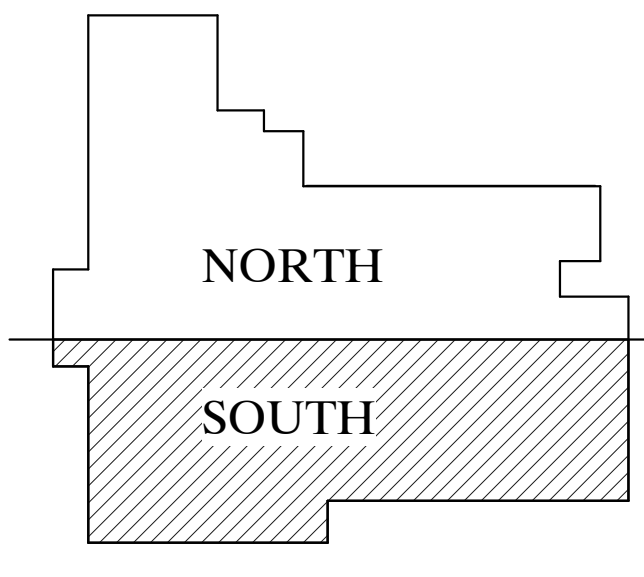
**NOTES**

- PROVIDE 2" DOWN, 1-1/2" UP AND 1/2" CW/HW FROM BELOW IN WALL WITH FULL-PORT SHUT-OFF VALVES BEHIND ACCESS PANEL TO SERVE SINK (S-1).
- PROVIDE 2" DOWN, 1-1/2" UP AND 1/2" CW/HW FROM BELOW IN WALL WITH FULL-PORT SHUT-OFF VALVES BEHIND ACCESS PANEL TO SERVE KITCHEN SINK (KS-1).
- MECHANICAL EQUIPMENT (NOT IN PLUMBING SCOPE) REFER TO MECHANICAL DRAWINGS FOR UNIT DESCRIPTION AND INFORMATION.
- ROUTE 3/4" CD FROM CONDENSATE PUMPS OUTLET AND RUN ABOVE CEILING TOWARDS RECEPTOR WITH 1% MIN. SLOPE. CONDENSATE PUMP SHALL BE FURNISHED BY MECHANICAL CONTRACTOR. INSTALLED BY PLUMBING CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. REFER TO DETAIL 5/P6.03.
- 2" WASTE FROM ABOVE SERVING ROOF RECEPTOR (RR-1).
- VENT THROUGH ROOF. REFER TO DETAIL 6/P6.01.
- INTAKE AND EXHAUST VENT PIPES THRU ROOF. SIZE 3" PVC. PROVIDE CONCENTRIC VENT KIT TERMINATION FITTING BRADFORD MODEL 293-44889-01 FOR 4" SINGLE ROOF PENETRATION PER DETAIL 2/P6.04.
- PROVIDE TRENCH DRAIN CHANNELS AT EDGE OF BALCONY. COORDINATE EXACT LENGTH WITH ARCHITECTURAL DRAWING 13/A6.10. REFER TO P2.12 FOR DRAIN OUTLET LOCATIONS FROM DRAIN CHANNELS.



A A.1 A.3 A.7 A.9 B.2 B.3 B.8 C.1 C.2 C.5 C.8 D E E.5 F F.6 G G.2 G.4 H J K Y.A L M M.6 N

8.6  
8.7  
9  
9.5  
10  
11  
12.10  
12.9  
12.8  
13  
14



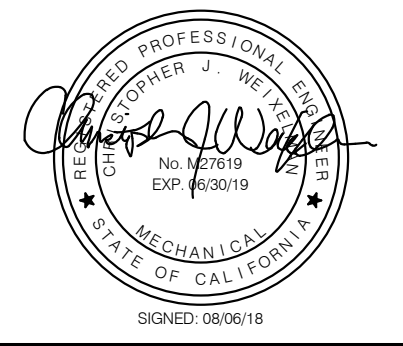
architecture  
www.hpiarchitecture.com

115 22nd street  
Newport Beach, CA 92663  
o: 949.675.6442

CONSULTANTS



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San Diego | San Jose  
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SEALS / APPROVALS



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
FILE: 30-C2  
A# 04-116810

AC FLS SS  
DATE

PROJECT TITLE

JOHNSON STUDENT CENTER  
INCREMENT 2  
1530 W 17TH ST SANTA ANA CA 92706



SUBMITTALS

#	DATE	DESCRIPTION
1	05/18/18	HEALTH DEPT. SUBMITTAL
2	08/13/18	DSA FINAL SUBMITTAL
3	09/24/18	ADDENDUM 3

PROJECT IDENTIFICATION 7411  
THESE DRAWINGS ORIGINALLY CREATED IN AUTODESK REVIT V. 2015  
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42"

DRAWN BY M. Alcantara

CHECKED BY E. Cometz  
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SHEET TITLE  
SECOND FLOOR PLAN - SOUTH

SHEET NUMBER

P2.22

100% CONSTRUCTION DOCUMENTS

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 11  
(RSCCD USE ONLY):

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/14/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	

**REQUESTED CLARIFICATION:**

- a The CMU at the Boiler room is called out to be precision block with the color "Shoreline". The CMU for the Service Yard Site Wall is called out to be split face, however no color is provided. Please provide a color for bidding purposes.
- b Please provide a color and type of CMU at the west lunch shelter.
- c The vehicular directional signage CMU calls for CMU-6, however no spec can be found for this. It appears to be drawn as split face per detail 24&27/G3.11. Please confirm and provide the color.

**RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:**

- a. SERVICE YARD TO BE SPLIT FACE COLOR "SHORELINE"
  - b. PROVIDE: 8"h CMU, ANGELUS BLOCK - PRECISION "SHORELINE"
  - c. PROVIDE: 8"h CMU, ORCO BLOCK CO/WHITE - SPLITFACE 2-SIDES, MEDIUM WEIGHT BELOW THE SQUARE PRE-CAST CONCRETE BLOCK PILASTER 2" CAP.
- REFER TO NEW DETAIL SHEET G3.12 FOR ADDITIONAL INFORMATION**

RESPONSE PROVIDED BY:	Julia D. Jones / hpi	DATE:	09/24/18
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*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 12  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/14/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	Detail 24/G3.11
REQUESTED CLARIFICATION:			
Detail 24/G3.11 calls for a Custom Thile inset flush to the CMU wall. We are assuming this should read Custom "Tile". Please confirm. Please also indicate who will provide this custom tile. If the contractor is to provide please provide details so it can be custom made.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>REFER TO ATTACHED DETAILS 13 AND 14/G3.12 FOR CUSTOM "TILE" INSET DETAILING.</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 13  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/14/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	Details 24 & 27/G3.11
REQUESTED CLARIFICATION:			
Please provide a detailed section view of the aluminum monument sign shown in details 24 & 27 on G3.11			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>ADDED DETAIL 17/G3.12 (NEW SHEET)</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*



**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 14  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/17/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:	071910	DRAWING NUMBER:	A8.21
REQUESTED CLARIFICATION:			
<p>Specification Section 071910-2.1B - Concrete Floor Sealer lists Scofield, Consolideck LS by Prosoco, Degussa or ChemMasters as acceptable manufacturers for concrete clear sealer. Sheet A8.21 Finish Schedule lists Ardex as a manufacture for Sealed Concrete. Please confirm that Ardex can be used as an "or equal" as they are not listed in the specification (071910-2.1B). Please also confirm Ardex can be added to the list of acceptable patching manufacturers (071910-2.1A).</p>			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<p align="center"><b>ARDEX CONCRETE SEALER AND ARDEX PATCHING COMPOUND IS ACCEPTABLE AS AN APPROVED EQUAL.</b></p>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 15  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/17/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A8.30 and A8.31
REQUESTED CLARIFICATION:			
Doors J100-2A & J200-2A are called out as Type D4 and Door J101-1A is called out as Type D3 on the Door Schedule however no D3 or D4 door is included in the Door Type Legend. Please either revise these doors in the schedule or provide the missing D3 and D4 door type.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>REFER TO SHEET A8.41 REFERENCE STOREFRONT SF-3 FOR DOOR J100-2A, SF-7 FOR DOOR J200-2A. FOR DOOR J101-1A TO BE A TYPE B.</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 16  
(RSCCD USE ONLY):

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/17/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:	071909, 096500, 096517, 096816	DRAWING NUMBER:	

**REQUESTED CLARIFICATION:**

Specification Section 071909-3.4C states "Do not allow floor coverings to be installed in areas above 3.0 pounds per ASTM F 1869 and pH levels greater than 10 or floor covering manufacturer's requirements."

- 1) The flooring specifications (Resilient Tile 096500 & linoleum 096517) call to "Provide barrier as specified in Division 7 Section "Concrete Moisture and Alkalinity Barrier" if test exceed floor covering limits." Since the concrete cannot be tested until it is constructed, we recommend the District include an allowance for concrete moisture and alkalinity barrier to level all bidders.
- 2) The Sheet Carpeting Specification 096816-1.05B calls for Powerbond Cushion installation which does not require moisture vapor emission rate (MVER) testing nor relative humidity (RH) testing provided that no free liquids are present. Please confirm that the Concrete Moisture and Alkalinity Barrier specification section 071920 does not apply to the carpeted areas.

**RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:**

- 1) **In the event concrete moisture and alkalinity test (s) fail, contractor shall apply a concrete moisture and alkalinity barrier per Specification 071920 at resilient tile and linoleum flooring areas. Refer to Allowance No. 5 (in red) on revised Specific Allowance list. (District Response)**
- 2) **REFER TO SPECIFICATION SECTION 096816 PART 1, 1.05.B. IF THERE IS FREE LIQUIDS AND/OR MOISTURE STAINED CONCRETE OBSERVED A MVER AND RH TESTING MUST BE DONE. (HPI Response)**

RESPONSE PROVIDED BY:	Julia D. Jones / hpi	DATE:	09/24/18
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*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 17  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	Building Demo - Sheet C1.00
REQUESTED CLARIFICATION:			
Building Demo - Sheet C1.00, Grading Note 2 refers to the City of Cerritos. Please confirm this should be Santa Ana instead.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>CONFIRMED TO READ CITY OF "SANTA ANA" . REFER TO REVISED SHEET C1.00</b>			
RESPONSE PROVIDED BY:	Linda Sandusky / H&F	DATE:	09/24/18

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 18  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	Building Demo - Sheet C1.00
REQUESTED CLARIFICATION:			
<p>Building Demo - Sheet C1.00 - Detail 1 - There are several utility structures &amp; piping that are listed as "Protect in Place", however these will need to be removed. Please revise this drawing to show which specific utility items are to be protected in place &amp; which are to be removed, especially those that are in the zone of the building over excavation.</p>			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<p><b>REVISED SHEET C1.00 DETAIL 1 TO SHOW ALL WET/DRY UTILITIES AND ALL ASSOCIATED ACCESSORIES TO BE REMOVED IN THEIR ENTIRETY AND CUT BACK/CAPPED IF NECESSARY AT BOUNDARY OF CONSTRUCTION</b></p>			
RESPONSE PROVIDED BY:	Linda Sandusky / H&F	DATE:	09/24/18

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 19  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	Building Demo - Sheets C2.00, C2.0-D Increment 2 - Sheet C6.0
REQUESTED CLARIFICATION:			
Building Demo - Sheets C2.00, C2.0-D - Please confirm that these Erosion Control & Grading Plans are assumed to be superseded by Increment 2, Sheet C6.0.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>REMOVE SHEET C2.00 IN ITS ENTIRETY FROM THE BUILDING DEMOLITION PACKAGE. REFER TO INCREMENT 1 AND 2 FOR EROSION CONTROL &amp; GRADING PLANS</b>			
RESPONSE PROVIDED BY:	Linda Sandusky / H&F	DATE:	09/24/18

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 20  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
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FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
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SPECIFICATION NUMBER:	033010 & 321313	DRAWING NUMBER:	
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REQUESTED CLARIFICATION:

Increment #2 - Specification Section 033010 par. 1.2-E calls for a 3x3x8-inch sample of each site wall finish for review, and Section 321313 par. 1.2-C calls for a 4x4 job site sample of each paving finish. There are numerous existing site walls and new site paving recently installed on the campus, could these "in place" samples serve as a the representative samples of finish types to match in lieu of a new mock-up, thus saving the district money.

RESPONSE TO CLARIFICATION, **SUBMITTED AS PART OF AN ADDENDUM:**

**PROVIDE MOCK-UPS PER SPECIFICATION SECTIONS (DSA APPROVED CONTRACT DOCUMENTS)**

RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>
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*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 21  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	L5.50
REQUESTED CLARIFICATION:			
Increment #2 - Sheet L5.50 - Mock-Up Requirements - Confirm that the bidders are to provide these mock-ups since the existing site-work & site walls that were recently installed could serve as representative samples of finish types to match, thus saving the District money.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>PROVIDE MOCK-UPS PER SPECIFICATION SECTIONS (DSA APPROVED CONTRACT DOCUMENT)</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*



**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 22  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:	053123 par. 2.2-A-1	DRAWING NUMBER:	A1.03 - Detail 21

**REQUESTED CLARIFICATION:**

Increment #2 - Sheet A1.03 - Detail 21 - At the right, there is a callout for 053123.A2 and handwritten is "Deck D5 Type per 1/S5.11. Detail 1/S5.11 calls out D5 as Deep-Dek to be "(18GA)", however Section 053123 par. 2.2-A-1 calls for this corrugated deck to be "20GA. or greater as determined by design". Please confirm that the bid is to be based upon 18GA thick decking per the deck schedule on S5.11.

**RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:**

**MHP Response: 9/19/2018**  
**Confirmed, provide D5 deck per detail 1/S5.11 (18GA).**  
  
**-AE**

RESPONSE PROVIDED BY:	<b>Adam Egan / MHP</b>	DATE:	<b>09/24/18</b>
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*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 23  
(RSCCD USE ONLY):

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	S2.50, S4.11, S5.17

**REQUESTED CLARIFICATION:**

Increment #2 - Sheet S2.50 - Detail A - The west lunch shelter is shown with an 18" concrete mat foundation. Detail 16/S4.11 does not show a mat foundation, however Detail 6/S5.17 does. Please confirm that Detail 6/S5.17 is the correct typical detail for these walls.

Please also provide the TOF elevation for this Mat Foundation as well as slab edge details at the CMU walls (thickened edge?) and slab edge details at the door openings (transitions to site concrete?).

**RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:**

**MHP Response: 9/19/2018**  
Detail 6/S5.17 shows the correct detailing for the mat foundation. Mat foundation TOF is per plan ref note directing to S2.11 - Foundation Plan Notes / Note 8.  
Slab edge per plan ref Detail 16/S4.11 at CMU wall  
Provide doweling for slab edge at opening to mat foundation similar to Detail 1S4.11  
-AE

RESPONSE PROVIDED BY:	<b>Adam Egan / MHP</b>	DATE:	<b>09/24/18</b>
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*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 24  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	SS1.02.1
REQUESTED CLARIFICATION:			
Increment #2 - Sheet SS1.02.1 - Rear Elevation - The reference call out to Detail F/A1.03 for the Shade footing should be Detail A/SS1.03 instead.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>MHP Response: 9/19/2018</b> <b>Sheet SS1.02.1 - Rear Elevation - The reference call out Detail F/A1.03 for the shade footing should be Detail F/SS1.03</b> <b>-AE</b>			
RESPONSE PROVIDED BY:	<b>Adam Egan / MHP</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 25  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	E0.03
<b>REQUESTED CLARIFICATION:</b>			
Increment #2 - Sheet E0.03 - Exterior Fixtures S2 - Option 1 lists the model Ligman-FS-UEU-20286, however a search of the Ligman Lighting web site does not have this model, although there are some similar models which are #20281 thru #20285. Please confirm if #20286 is in production, and if not, provide the model that should be selected for this project.			
<b>RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:</b>			
Model UEU-20286 does exist and is on their website. Please see attached cut sheet downloaded from their website.			
RESPONSE PROVIDED BY:	Melissa Klug / P2s	DATE:	09/24/18

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

# UEU-20286

## Eurasia 1 Small Shade Post Top

7144 NE Progress Ct | T:503.645.0500  
 Hillsboro, Oregon 97124 | F:503.645.8100  
 www.ligmanlightingusa.com



Length - 16"  
 Height - 21"  
 Weight - 53.5 lbs  
 IP55  
 Suitable for wet locations  
 IK08  
 Impact Resistant [Vandal Resistant]  
 EPA - .98

**POLE NOT INCLUDED**

### Construction

#### Aluminum

Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

#### Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

#### Memory Retentive -Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

#### Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

#### Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

#### BUG Rating

B1 - U3 - G1

#### Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

#### Paint

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

#### Hardware

Provided Hardware is Marine grade 316 Stainless steel.

#### Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

#### High Impact Acrylic Lens

Manufactured with Ultra High Impact, Naturally UV Stabilized Injection Molded Acrylic.

#### Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

#### Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

**High-visual-comfort post top family. Robust but decorative urban lighting family with perfect glare-controlled lateral light distribution.**

A post top decorative lantern with a symmetrical light distribution. Developed to complement the Eurasia range of pillar light, wall light and bollard luminaires using energy saving COB LED lamps.

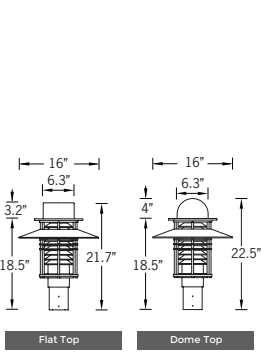
Designed for various applications including car parks, precincts, pathways and town centers. The luminaire rated as CLASS I with integral driver. Colour temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and life time 50,000 Hours. Low copper content die cast housing with high corrosion resistance. Stainless steel screws. Durable silicone rubber gasket and clear impact resistant UV stabilized polycarbonate diffuser.

Housing is treated with a chemical chromated protection before powder coating, ensuring high corrosion resistance. Anodized high purity aluminum reflector.

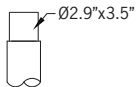
**Additional Options (Consult Factory For Pricing)**



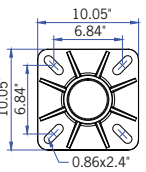
A20491  
Root Mount Kit



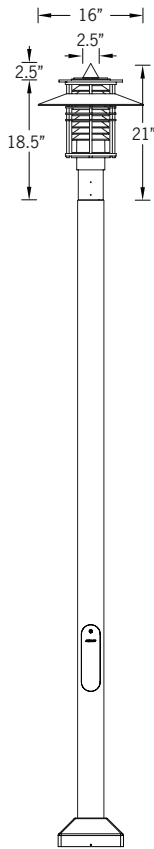
Lantern Detail



Tenon Detail



Mounting Detail



### Eurasia Product Family



UEU-30216



UEU-30226



UEU-10026



UEU-10046



UEU-20406



UEU-20256

# UEU-20286

## Eurasia 1 Small Shade Post Top

7144 NE Progress Ct | T:503.645.0500  
 Hillsboro, Oregon 97124 | F:503.645.8100  
 www.ligmanlightingusa.com



<b>PROJECT</b>		<b>DATE</b>	
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<b>QUANTITY</b>		<b>TYPE</b>		<b>NOTE</b>	
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**ORDERING EXAMPLE || UEU - 20286 - 41w - 1 - 2 - W30 - 02 - 120/277v - Options**

LAMP	SHADE	TOP	LED COLOR	FINISH COLOR	VOLTAGE
41w LED 993 Lumens	1 - Swept  2 - Straight 	1 - Dome Top  2 - Cone Top  3 - Pointed Top 	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	120/277v Other - Specify

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### ADDITIONAL OPTIONS

- DIM - 0-10v Dimming
- NAT - Natatorium Rated
- A20491 - Root Mount Kit



**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 26  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A7.05

**REQUESTED CLARIFICATION:**

Increment #2 - Sheet A7.05 - Detail 4 - Keynote 055100.A9 calls for a 12" HIGH, 1-1/2" DIA. STAINLESS STEEL PIPE RAIL and then it refers to detail 19/A9.71 which shows a much different guardrail condition. Please provide correct detail for this 12" high pipe rail with mounting details.

Also Specialization section 055100 is for assembled steel stairs, stainless steel pipe rail. Please review and advise which specification section applies to this pipe rail (055213 or 057300 maybe?)

**RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:**

**DETAIL REFERENCE IS 3/A9.72. KEYNOTE TO READ 055213.A9.  
SPECIFICATION FOR PIPE AND TUBE RAILING, INCLUDING SS RAILING**

**USE SPECIFICATION 055213 PIPE AND TUBE RAILINGS**

RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>
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*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 27  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A7.21

**REQUESTED CLARIFICATION:**

Increment #2 - Sheet A7.21 - Detail 8 - Keynote 055100.A8 calls for 1-1/2" DIA. STAINLESS STEEL PIPE RAIL. There is no elevation provided for this side of the room. Please provide details to clarify the height, length and mounting requirements. Also is Spec 055100 the correct spec to be used for this item?

**RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:**

**DETAIL REFERENCE IS 3/A9.72. KEYNOTE TO READ 055213.A8.  
SPECIFICATION FOR PIPE AND TUBE RAILING, INCLUDING SS RAILING USE  
055213 PIPE AND TUBE RAILINGS. PROVIDE LENGTH OF 19'-0" FROM  
CENTERLINE 2, RUNNING SOUTH**

RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>
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**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 28  
(RSCCD USE ONLY):

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/18/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A7.52, A9.71

**REQUESTED CLARIFICATION:**

Increment #2 – Sheet A7.52 - Keynote 057300.A1 calls for ORNAMENTAL METAL GUARDRAIL - STAINLESS STEEL TOP RAIL & POST, PAINTED INFILL PANEL at the 2nd floor balcony. Detail 15/A9.71 is called out for this guardrail. This detail references details 26&27/A9.71.

- 1)These details call out a 1"thick post, but do not call out a stainless steel post. This should be corrected.
- 2)These details refer to drawings 20/S5.03 for post and stiffener plate size and connection. Sheet S5.03 does not exist. Please provide missing detail/sheet or correct this call out.

**RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:**

**1) DETAILS 26/A9.71 NOTE REFERENCING 1" THICK STEEL POST TO READ "1" THICK STEEL POST STAINLESS STEEL". 2) DETAILS 26&27/A9.71 NOTE REVISE TO READ "...STIFFENER PLATE SIZE AND CONNECTION SEE 11/S5.13". 1) DETAIL 27/A9.71 NOTE REFERENCING 1" THICK STEEL POST TO READ "1" THICK STEEL POST STAINLESS STEEL". REMOVE LEADER OF SAME NOTE THAT IS POINTING TO STRUCTURAL STIFFENER.**

RESPONSE PROVIDED BY:	Julia D. Jones / hpi	DATE:	09/24/18
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*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 29  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	All Sheets
REQUESTED CLARIFICATION:			
Increment #1 and #2 drawings have been provided in scanned format to bidders with hand written notes. Is it possible to have a clean copy provided to bidders with hand written notes incorporated into the text so that drawings are searchable?			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>THESE ARE DSA APPROVED DOCUMENTS, SO THEY WILL NOT BE REISSUED WITH TEXT AS REQUESTED.</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 30  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A8.20 & A8.11
REQUESTED CLARIFICATION:			
Increment #2 - Please confirm that the room finish schedule on A8.20 takes precedence over the floor plans at conflicting locations. For example, Lounge room J208-4 shows RSF-4 flooring in the room finish schedule and RSF-2 on floor plan A8.11.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
Confirmed. Room Finish Schedule on A8.20 takes precedence over Finish Floor Plans.			
RESPONSE PROVIDED BY:	Julia D. Jones / hpi	DATE:	09/24/18

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** **31**  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A8.11
REQUESTED CLARIFICATION:			
Increment #2 - The floor plan on A8.11 shows Stair 2 labeled with RST-1 landings and treads, however RST-1 is not found in the flooring legend. Should this call out be revised to RSF-1? Please clarify.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
Yes, this should be revised to RSF-1.			
RESPONSE PROVIDED BY:	Julia D. Jones / hpi	DATE:	09/24/18

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 32  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A7.02 & A8.20
REQUESTED CLARIFICATION:			
Increment #2 - Gender Neutral Restrooms J110-10, J110-15 & J110-18 show the use of covered tile base in elevations and details 16, 21, 27 & 28 on A7.02. The Room Finish Schedule on A8.20 calls for RSB-2 base. Please clarify what base is required in these 3 restrooms.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
The base that should be used in rooms J110-10, J110-15, and J110-18 should be the RSB-2 (Forbo - Integral Cove Base).			
RESPONSE PROVIDED BY:	Julia D. Jones / hpi	DATE:	09/24/18

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** **33**  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A7.02 & A8.20
REQUESTED CLARIFICATION:			
Increment #2 - Room Finish Schedule A8.20 contains comment "Gyp-6 behind tile" for Gender Neutral Restrooms J110-10, J110-15, and J110-18. No tile is shown in the finish schedule (FRP and Green Board is called out). Please confirm that there is no tile in these three restrooms, and remove the comment stating Gyp 6.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>Confirmed. There is no tile in these three restrooms.</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** **34**  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:	101123 par. 2.2-A-4	DRAWING NUMBER:	
REQUESTED CLARIFICATION:			
Increment #2 - Specification Section 101123 par. 2.2-A-4 calls for "Series 5 by Claridge" and the Panel Thickness is listed as 1 inch, however in a review of the Claridge website Series 5 lists the "O.A. panel thickness at approx. 1/2 inch". Please review and advise.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>TACKBOARD: CLARIDGE SERIES 5 IS CORRECT PRODUCT, 1/2" CONFIRMED WITH 5/8"</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 35  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:	101123 par. 2.3-B & par.2.4-A,B,C,D	DRAWING NUMBER:	
REQUESTED CLARIFICATION:			
Increment #2 - Specification Section 101123 par. 2.3-B & par.2.4-A,B,C,D - These paragraphs are the exact same as in Section 101116 Markerboards, and appear to be specifications for the fabrication of Markerboards instead of Tackboards. Please review and correct as necessary.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>REMOVE SPECIFICATION SECTION 101123 PAR., 2.3-B AND PAR., 2.4-A.</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*



**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** 36  
*(RSCCD USE ONLY):*

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:		DRAWING NUMBER:	A6.01
REQUESTED CLARIFICATION:			
Increment #2 - Sheet A6.01 - Detail 3 - On the east wall of J221 Custodial is a callout for Keynote 102813.B1 which is for a Bobrick B-29744, however Detail 25/A6.01 calls for Keynote 102813.A1 which is for a Bobrick B-39747 (or B-3974) instead. Please confirm which is correct.			
RESPONSE TO CLARIFICATION, <b>SUBMITTED AS PART OF AN ADDENDUM:</b>			
<b>KEYNOTE ON 3/A6.01 TO READ 102813.A1</b>			
RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>

*Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.*

**Attachment 3**

**PRE-BID CLARIFICATION ("PBC") FORM  
(ALL questions to be submitted on this form ONLY)**

**PBC #** **37**  
(RSCCD USE ONLY):

PROJECT NAME:	RFP #1819-224 Johnson Student Center at Santa Ana College		
PROJECT NUMBER:	3035	DSA NUMBER:	Demolition, #04-116810 INC 1 and INC 2
EMAIL:	FacilitiesRFP@rsccd.edu		

DATE:	09/19/2018		
FROM:	S.Monsen - McCarthy	EMAIL:	SMonsen@McCarthy.com
SPECIFICATION NUMBER:	Section 101123	DRAWING NUMBER:	A7.19

**REQUESTED CLARIFICATION:**

Increment #2 - Sheet A7.19 - Keynote 101123.A3 - This keynote calls out an Acoustic Tack Board, however Section 101123 does not specify an "acoustic tackboard" product. Please provide the specifications, mfr., product, details for this item of work.

**RESPONSE TO CLARIFICATION, SUBMITTED AS PART OF AN ADDENDUM:**

ADD MANUFACTURER TO SPECIFICATION SECTION 101123 PAR., 2, 2.1-A ACOUSTIC TACKBOARD - BASIS OF DESIGN: ACOUSTICAL SOLUTIONS (ALPHASORB). ADD PRODUCT TO SPECIFICATION SECTION 101123 PAR., 2, 2.2-B Product: ALPHASORB BY ACOUSTICAL SOLUTIONS OR EQUAL:  
Sizes: up to 4' x 8' (nominal)  
Thickness: 7/8" (3/4" Micore + 1/8" Fiberglass)  
Tolerance: +/- 1/8"  
Core: 24 lb. per cubic foot mineral fiber core + 1/8" fiberglass  
Intended Use: Interior, sound absorption  
Fabric Finish: Guilford of Maine FR701 Style 2100 (other fabrics available as specified)  
Fire Rating: Class 1 or A per ASTM E84  
Edge Detail: Square only  
Mounting options: nails and construction adhesive (provided by installer)  
NRC: 7/8" (0.60). ALUMINUM FRAME, REFER TO SPECIFICATION SECTION 101123 PAR., 2, 2.3-A

RESPONSE PROVIDED BY:	<b>Julia D. Jones / hpi</b>	DATE:	<b>09/24/18</b>
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