

GENERAL NOTES

POST-INSTALLED ANCHORS

1. POST-INSTALLED STEEL ANCHORS INSTALLED IN NORMAL WEIGHT OR LIGHTWEIGHT CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
- A. KWIK BOLT TZ EXPANSION ANCHORS (ICC-ES REPORT ESR-1917) AS MANUFACTURED BY HILTI, INC.
2. POST-INSTALLED ANCHORS OF EQUAL QUALITY AND WITH CURRENT ICC-ES REPORT MAY BE SUBSTITUTED IF APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER).
3. POST-INSTALLED ANCHORS INSTALLED IN EXTERIOR EXPOSURE OR DAMP ENVIRONMENT SHALL BE STAINLESS STEEL.
4. INSTALL POST-INSTALLED ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THREADED RODS AND ANCHORS SHALL BE FREE OF DUST, GREASE, RUST AND OTHER MATERIALS THAT WILL IMPAIR BOND WITH CONCRETE.
5. USE ONLY NON-REBAR CUTTING DRILL BITS TO DRILL HOLES IN CONCRETE. EXISTING REINFORCING STEEL SHALL BE POSITIVELY LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. DO NOT CUT OR DAMAGE EXISTING REINFORCING STEEL UNLESS APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER).
6. WHERE EXISTING CONCRETE IS DAMAGED AND/OR DRILLED HOLES ABANDONED, THE DAMAGED CONCRETE OR ABANDONED HOLES SHALL BE REPAIRED OR FILLED WITH NON-SHRINK GROUT, RESPECTIVELY. BRING EACH CONDITION TO THE ATTENTION OF THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO IMPLEMENTING REPAIRS.
7. BRING TO THE ATTENTION OF THE ARCHITECT (STRUCTURAL ENGINEER) ANY POST-INSTALLED ANCHOR LOCATION THAT CANNOT COMPLY WITH THE PARAMETERS STATED HEREIN AND INDICATED ON THE DRAWINGS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" ANSI/AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" AND ANSI/AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AS AMENDED BY CALIFORNIA BUILDING CODE (CBC) SECTIONS 2203, 2204 AND 2205.
2. SEISMIC FORCE RESISTING SYSTEM (SFRS) IS THAT PART OF THE STRUCTURAL SYSTEM THAT HAS BEEN CONSIDERED IN THE DESIGN TO PROVIDE THE REQUIRED RESISTANCE TO THE SEISMIC FORCES PRESCRIBED IN ASCE/SEI 7.
3. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS, UNLESS NOTED OTHERWISE ON DRAWINGS:
- CHANNELS, ANGLES, M- & S-SHAPES.....ASTM A36/A36M
PIPES.....ASTM A53/A53M
GRADE B (Fy=35 KSI)
RECTANGULAR HOLLOW STRUCTURAL SECTIONS.....ASTM A500/A500M
GRADE C (Fy=50 KSI)
PLATES.....ASTM A36/A36M (UNO)
ANCHOR BOLTS.....ASTM F1554
GRADE 36 (UNO)
THREADED ROUND STOCK.....ASTM A36/A36M
- FURNISH READILY IDENTIFIABLE STRUCTURAL STEEL IN COMPLIANCE WITH CBC SECTION 2203.1.
4. HEADED STUD ANCHORS SHALL BE NELSON TYPE S3L OR TYPE H4L FLUX-FILLED HEADED SHEAR CONNECTOR STUDS (ICC EVALUATION SERVICE REPORT ER-2856), OR AN APPROVED EQUAL, AND SHALL BE MADE FROM COLD DRAWN, LOW CARBON STEEL CONFORMING TO ASTM A1010 THROUGH C1020, WITH A MINIMUM TENSILE STRENGTH OF 65 KSI. STUD WELDING TEST AND INSPECTION SHALL CONFORM TO AWS D1.1, CHAPTER 7. ANCHOR LENGTHS NOTED ON DRAWINGS ARE AFTER WELD LENGTHS.
5. SUBMIT SHOP DRAWINGS TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. INDICATE AN ERECTION SEQUENCE OF WELDING TO MINIMIZE LOCKED-UP STRESSES OR DISTORTION FOR MOMENT-RESISTING STEEL FRAMES.
6. HOURLY FIRE RESISTIVE REQUIREMENTS FOR STRUCTURAL STEEL MEMBERS SHALL BE DETERMINED USING CBC TABLE 601. BUILDING TYPES OF CONSTRUCTION AND FIREPROOFING MATERIALS ARE AS INDICATED ON ARCHITECTURAL DRAWINGS.
7. ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
8. WELDING SHALL CONFORM TO LATEST EDITION OF AWS D1.1/D1.1M, AS AMENDED IN CBC SECTION 2204.1.
- A. WELDING PROCESS SHALL BE ELECTRIC ARC USING E70XX ELECTRODES. SUBMERGED ARC PROCESS (SAW) WITH AUTOMATIC WELDING MAY BE USED AS AN ALTERNATIVE.
- B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.
- C. SHOP WELDING, INCLUDING ULTRASONIC TESTING OF FULL PENETRATION GROOVE WELDS, SHALL BE PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
- D. MINIMUM FILLET WELD SIZE SHALL CONFORM TO AISC SPECIFICATION TABLE J2.4. WELD LENGTHS NOTED ON DRAWINGS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
- E. FIELD WELD SYMBOLS NOTED ON THE DRAWINGS SHOW ENGINEERING INTENT, BUT NO ATTEMPT HAS BEEN MADE TO CLASSIFY ALL WELDS. AT FABRICATOR'S OPTION, ANY WELD INDICATED AS A FIELD WELD MAY BE SHOP WELDED AND ANY WELD INDICATED AS A SHOP WELD MAY BE FIELD WELDED.
9. WELDS SHALL BE PREQUALIFIED PER AWS D1.1. NON-PREQUALIFIED WELDED JOINTS SHALL BE QUALIFIED BY TEST PER AWS D1.1.
10. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW A WRITTEN WELDING PROCEDURE SPECIFICATION (WPS) FOR ALL WELDS USED ON PROJECT PRIOR TO FABRICATION. FOR WELDS NOT PREQUALIFIED, THE SUPPORTING PROCEDURE QUALIFICATION RECORD (PQR) SHALL ALSO BE SUBMITTED WITH THE WPS. WPS SHALL BE IN ACCORDANCE TO AWS D1.1, SECTION 4.6 AND SHALL INCLUDE THE FOLLOWING INFORMATION FOR EACH WELD TYPE AND POSITION:
- A. SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS. LAYER THICKNESS SHALL NOT EXCEED 1/4 INCH, AND BEAD WIDTH SHALL NOT EXCEED 5/8 INCH.
- B. BASE METAL TYPES AND THICKNESS.
- C. APPLICABLE WELD PROCESS (SMAW OR FCAW).
- D. FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS DETAILS OF SHIELDING MATERIAL.
- E. ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, CONTACT DISTANCE, MELT OFF RATE AND DEPOSITION RATE.
- F. A COPY OF ELECTRODE MANUFACTURER'S TECHNICAL INFORMATION AND CERTIFICATE OF CONFORMANCE.
11. TESTING LABORATORY WILL VERIFY COMPLIANCE WITH ACCEPTED WPS AND WILL PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) IF DEVIATIONS ARE FOUND.
12. ELECTRODE DIAMETER SHALL NOT EXCEED PREQUALIFIED LIMITS SHOWN IN AWS D1.1 TABLE 3.7, AS APPLICABLE. FOR FCAW PROCESS, MAXIMUM ELECTRODE SIZE SHALL NOT EXCEED 1/8 INCH.
13. DIFFUSIBLE HYDROGEN LEVEL FOR ELECTRODES AND ELECTRODE-FLUX COMBINATION SHALL MEET THE REQUIREMENTS TABLE 6.3 OF AWS D1.8/D1.8M.
14. DETAILS, MATERIALS, WORKMANSHIP, AND TESTING AND INSPECTION REQUIREMENTS OF WELDED JOINTS COMPRISING THE SFRS SHALL CONFORM TO THE FOLLOWING APPLICABLE STANDARDS:
- A. AWS D1.1/D1.1M "STRUCTURAL WELDING CODE - STEEL"
- B. AWS D1.8/D1.1M "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT"
- C. ANSI/AISC 341, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", CHAPTER J (QUALITY CONTROL AND QUALITY ASSURANCE).
15. WELD MATERIALS USED IN SFRS WELDED CONNECTIONS SHALL CONFORM TO THE FOLLOWING TOUGHNESS REQUIREMENTS:
- A. WELDED CONNECTIONS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0°F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD.
- B. WELDED CONNECTIONS DESIGNATED AS "DEMAND CRITICAL", SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 40 FT-LB AT 0°F BASED ON WPS HEAT INPUT ENVELOPE TESTING PRESCRIBED IN ANNEX A OF AWS D1.8/D1.8M.
16. INTERMIX OF FILLER METAL: WHEN FCAW-S FILLER METALS ARE USED IN COMBINATION WITH FILLER METALS FOR OTHER PROCESSES, INCLUDING FCAW-G, SUPPLEMENTAL CVN NOTCH TOUGHNESS TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ONE OF MORE OF THE FOLLOWING:
- A. TESTS AS DESCRIBED IN ANNEX B OF AWS D1.8/D1.8M.
- B. FOR TESTS THAT CONTAIN INTERMIX WELD METAL, WHEREIN CVN TEST SPECIMENS HAVE BEEN TAKEN FROM THE INTERMIX ZONE.
17. WELDING OF SHEET METAL AND METAL STUDS SHALL BE IN ACCORDANCE WITH AWS D1.3.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", WITH MODIFICATIONS AS NOTED IN THE CONTRACT DOCUMENTS.
2. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28-DAY (f_c), UNLESS NOTED OTHERWISE:
- ALL CONCRETE 3,000 PSI NORMAL WEIGHT
3. CONCRETE IS ASSIGNED TO EXPOSURE CLASSES F0, S0, P0, AND C0, AS DEFINED IN TABLE 4.2.1 OF ACI 318.
4. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR TYPE II.
5. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM DRY UNIT WEIGHT OF 145 PCF.
6. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2 INCHES FOR FOUNDATIONS AND 1 INCH ELSEWHERE, BUT NO LARGER THAN (A) 1/5 THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, (B) 1/3 THE DEPTH OF SLABS, OR (C) 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR WIRES, BUNDLES OF BARS, INDIVIDUAL TENDONS, BUNDLED TENDONS, OR DUCTS. SMALLER AGGREGATE SIZES MAY BE ALLOWED WITH THE APPROVAL OF THE ARCHITECT (STRUCTURAL ENGINEER).
7. MAXIMUM SLUMP SHALL BE 5 INCHES TYPICALLY AND 4 INCHES IN FLATWORK, UNLESS A HIGH-RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) IS USED IN THE CONCRETE MIX PROPORTIONS.
8. CONCRETE SHRINKAGE SHALL BE LIMITED TO 0.05 PERCENT AT 35 DAYS, AS DETERMINED BY ASTM C157. TEST SPECIMENS SHALL BE MOIST CURED IN LIMB SATURATED WATER FOR 28 DAYS AND AIR STORED FOR 7 DAYS.
9. WATER CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ALL FLATWORK THAT RECEIVES A MOISTURE SENSITIVE ADHESIVE TO AFFIX FLOOR FINISHES AND 0.50 ELSEWHERE. EXCEPTION: FOR CONCRETE ON METAL DECK, A WATER CEMENT RATIO OF 0.50 MAY BE USED FOR CONCRETE PLACED ON VENTED METAL DECKS. WATER CEMENT RATIO FOR CONCRETE IN EXPOSURE CLASS S2 SHALL NOT EXCEED 0.45 AND f_c NOT LESS THAN 4500 PSI.
10. CONCRETE MIX PROPORTIONING SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND SHALL BE SUBMITTED TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND APPROVAL.
- A. STRENGTH: CONCRETE MIX PROPORTIONING SHALL BE BASED ON FIELD EXPERIENCE AND/OR TRIAL MIXTURES AS STIPULATED IN ACI318, SECTION 5.3. SUBMIT CONCRETE MIX PROPORTIONING DATA, INCLUDING HISTORICAL STRENGTH RECORDS AND/OR RESULTS OF TRIAL MIXTURES, FOR EACH TYPE AND COMPRESSIVE STRENGTH OF CONCRETE.
- B. MODULUS OF ELASTICITY (MOE): MODULUS OF ELASTICITY TESTS SHALL BE PERFORMED ON LABORATORY TRIAL MIXTURES FOR EACH CONCRETE STRENGTH, EACH CONCRETE MIX PROPORTION, AND FOR EACH AGGREGATE SOURCE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- C. THE DESIGN CONCRETE MIX PROPORTION SHALL SPECIFY AGGREGATES THAT PRODUCE A CONCRETE MODULUS OF ELASTICITY NOT LESS THAN THAT SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS. THE MODULUS OF ELASTICITY OF PRODUCTION CONCRETE DELIVERED TO THE JOBSITE SHALL BE CONSISTENT WITH THE MODULUS OF ELASTICITY OF THE DESIGN MIX PROPORTION FOR THE ESTABLISHING THE CONCRETE f_c AND MOE USED IN THE BUILDING DESIGN.
11. CONCRETE MIXING SHALL CONFORM TO ASTM C94.
12. PRIOR TO PLACING CONCRETE, REINFORCING BARS (INCLUDING WELDED WIRE REINFORCEMENT), EMBEDDED PLATES, ANCHOR BOLTS, AND OTHER CONCRETE EMBEDMENTS SHALL BE WELL SECURED IN POSITION.
13. PROVIDE KEYED CONSTRUCTION JOINT WHERE INDICATED ON DRAWINGS. CLEAN, REMOVE LAITANCE, THOROUGHLY WET, AND REMOVE STANDING WATER IMMEDIATELY BEFORE PLACING FRESH CONCRETE.
14. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER).
15. CURING COMPOUNDS, SEALERS, HARDENERS, ETC., USED ON CONCRETE THAT RECEIVES A FINISH SHALL BE APPROVED BY THE ARCHITECT BEFORE USE.
16. GROUT SHALL BE NON-SHRINK, NON-METALLIC, SHALL NOT CONTAIN CHLORIDES, AND SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.
17. LEAN CONCRETE SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. USE ONLY WHERE SPECIFICALLY INDICATED.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE TO AMERICAN CONCRETE INSTITUTE ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615/A615M, GRADE 60, UNLESS NOTED OTHERWISE. BARS TO BE WELDED SHALL CONFORM TO LOW ALLOY ASTM A706/A706M, GRADE 60.
3. LENTON FORM SAVER COUPLERS, FA OR FS SERIES, SHALL BE BY ERICO INTERNATIONAL CORPORATION (IAPMO UES EVALUATION REPORT NO. 0129) OR APPROVED EQUAL.
4. LENTON TERMINATORS BY ERICO INTERNATIONAL CORPORATION (IAPMO UES EVALUATION REPORT NO. 0188) OR APPROVED EQUAL MAY BE USED IN LIEU OF STANDARD HOOKS.
5. MECHANICAL SPLICES SHALL BE LENTON STANDARD COUPLERS BY ERICO INTERNATIONAL CORPORATION (IAPMO UES EVALUATION REPORT NO. 0123) OR APPROVED EQUAL.
6. PREPARE REINFORCING STEEL SHOP DRAWINGS IN ACCORDANCE TO ACI 315, PART B. SHOP DRAWINGS MAY BE PREPARED MANUALLY OR BY COMPUTER. PLACING DRAWINGS SHALL BE PREPARED TO THE SAME STANDARD AS CONTRACT DRAWINGS. SHOW REINFORCING PLACEMENT, SPLICE LOCATIONS, REINFORCING LENGTHS, DETAILS, ELEVATIONS, BEND DETAILS, ETC. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW PRIOR TO FABRICATION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING REINFORCING STEEL SHOP DRAWINGS IF INSUFFICIENT CLEAR DISTANCES BETWEEN REINFORCING STEEL OR OTHER CONGESTION IS ENCOUNTERED. DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS. IF SUBMITTAL IS PARTIAL, CLEARLY INDICATE ITEMS EXCLUDED FROM SUBMITTAL. SHOP DRAWINGS WILL BE REJECTED IF NOT PREPARED TO THE STANDARDS STATED ABOVE.
7. REINFORCING STEEL SHALL BE SPLICED AS SHOWN ON THE DRAWINGS. IF NOT SHOWN, LOCATE SPLICES IN AREAS OF MINIMUM STRESS. LAP (SPLICE) LENGTHS ARE AS INDICATED ON THE DRAWINGS.
8. MINIMUM CLEARANCES BETWEEN PARALLEL REINFORCING STEEL INCLUDING SPLICED BARS SHALL BE ONE INCH, ONE BAR DIAMETER, OR 4/3 TIMES THE MAXIMUM SIZE AGGREGATE, WHICHEVER IS GREATER. PROVIDE 1 1/2 INCHES OR 1 1/2 BAR DIAMETERS, WHICHEVER IS GREATER, AT COLUMNS ONLY. FOR BUNDLED BARS, MINIMUM CLEAR DISTANCES BETWEEN UNITS OF BUNDLED BARS SHALL BE SAME AS SINGLE BARS EXCEPT BAR DIAMETER IS DERIVED FROM EQUIVALENT TOTAL AREA OF BUNDLE.
9. PROVIDE THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL PLACED IN CAST-IN-PLACE CONCRETE:
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
- B. CONCRETE EXPOSED TO EARTH OR WEATHER:
- NO. 6 THROUGH NO. 18 BARS.....2"
- NO. 5 BARS, W51 OR D31 WIRE, AND SMALLER.....1-1/2"
- C. CONCRETE NOT EXPOSED WEATHER OR IN CONTACT WITH GROUND:
- SLAB, WALLS, JOISTS.....1-1/2"
- NO. 14 AND NO. 18 BARS.....1"
- NO. 11 BARS AND SMALLER (*).....1"
- D. SLAB-ON-GRADE.....MID-HEIGHT OF SLAB
- (*) CONCRETE COVERAGE ADEQUATE FOR FIRE-RESISTIVE PERIOD OF 2 HOURS.
10. USE PLASTIC OR PLASTIC COATED SPACERS AND CHAIRS IF RESTING ON EXPOSED CONCRETE SURFACES.
11. WELDING OF REINFORCING STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES IN CONFORMANCE WITH AMERICAN WELD SOCIETY AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL".
- A. EXCEPT FOR REINFORCING STEEL CONFORMING TO ASTM A706/A706M, DETERMINE CARBON EQUIVALENT OF ALL REINFORCING STEEL TO BE WELDED. SUBMIT WPS FOR ALL REINFORCING STEEL TO BE WELDED TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND TO GOVERNING CODE AUTHORITY FOR APPROVAL PRIOR TO EXECUTION.
- WPS SHALL INCLUDE:
- 1) SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS.
- 2) APPLICABLE WELD PROCESS.
- 3) FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS DETAILS OF SHIELDING MATERIAL.
- 4) ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, MELT OFF RATE AND DEPOSITION RATE.
- 5) PREHEAT TEMPERATURES.
- 6) PROCEDURE QUALIFICATION RECORDS (PQR) FOR ALL WPS'S QUALIFIED BY TESTING.
- B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.
12. REINFORCING STEEL BENDS SHALL BE MADE COLD. RE-BENDING OF PREVIOUSLY BENT REINFORCING IS NOT PERMITTED.
13. ALL REINFORCING STEEL, INCLUDING WELDED WIRE REINFORCING SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, CONCRETE BLOCKS, CHAIRS, BOLERS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL REINFORCING, HOOKING AND WALKING-IN IS NOT PERMITTED.
14. ALL REINFORCING STEEL SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN FINAL INSPECTION IS CONDUCTED.

HMC Architects

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SM

Consultant Seal

Agency Approval

FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS____ FLS____ SSS____
DATE_____

Project Title



Palomar North Education Center - Interim Village
Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.

Description

Date

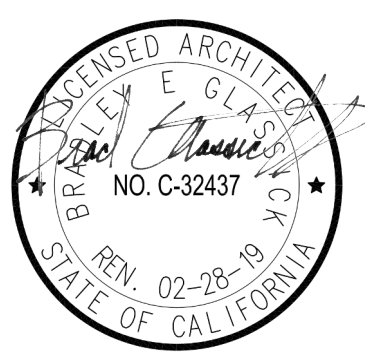
DSA SUBMITTAL - PHASE IV

10/13/2017

Drawing Title:

GENERAL NOTES

Architect's Seal



Designed:

BL

Project No.

5015019-102

Drawn:

AC, MB

Scale:

QAQC

SC

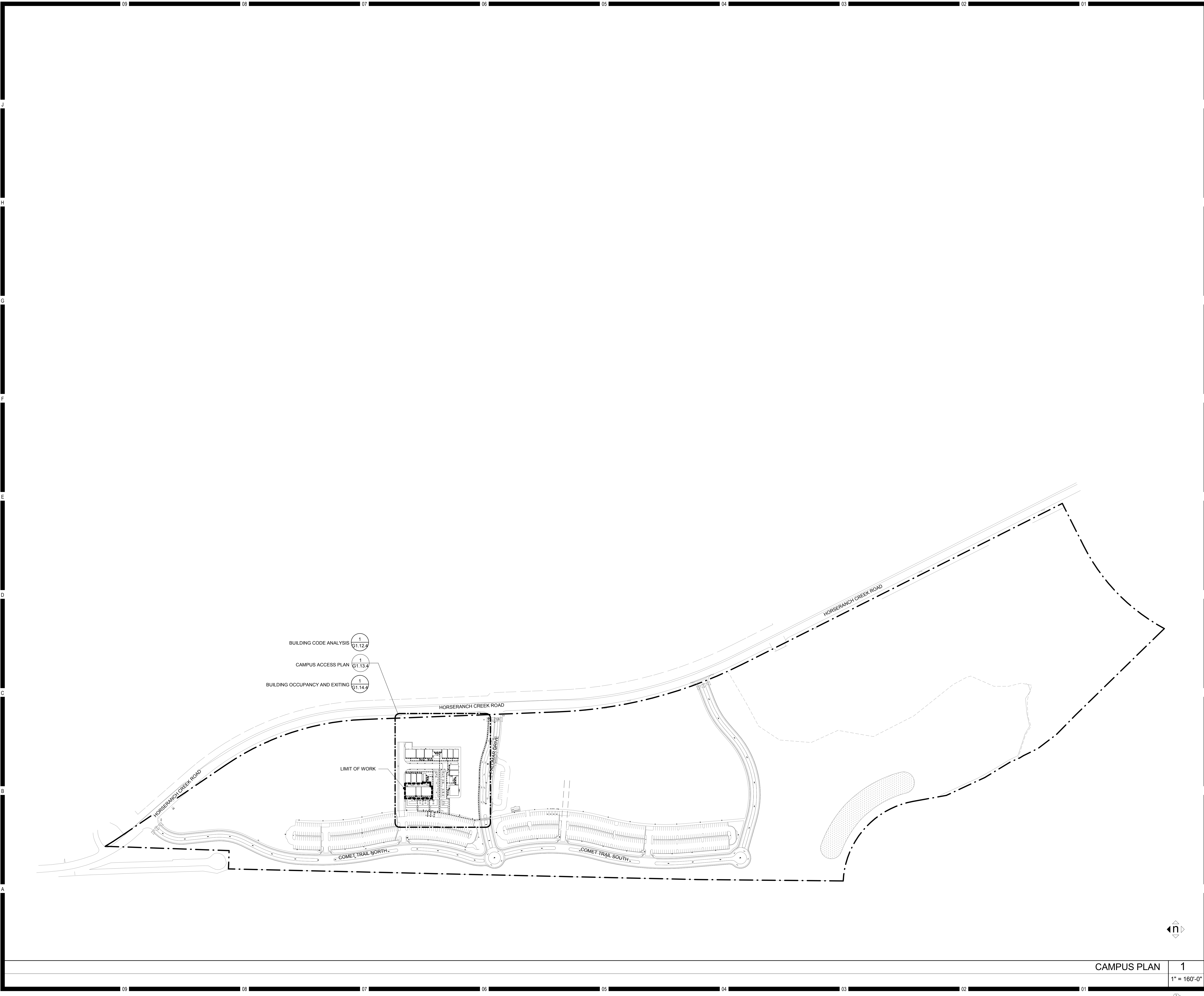
Drawing No.

G0.11.4

Date:

10/13/2017

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- BUILDING CODE ANALYSIS 1 GT.12.9
- CAMPUS ACCESS PLAN 1 GT.13.4
- BUILDING OCCUPANCY AND EXITING 1 GT.14.7

LIMIT OF WORK

CAMPUS PLAN

1
1" = 160'-0"

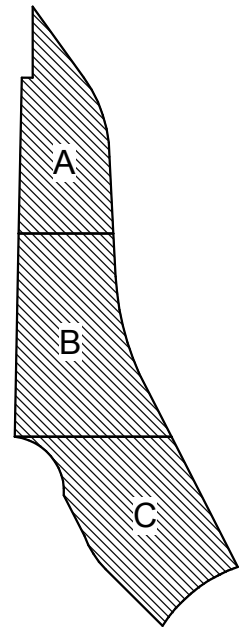
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KEYNOTES

NOTES

Key Plan



Consultant Seal

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS. FLS. SSS.
DATE

Project Title

Palomar North Education Center - Interim Village



Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

CAMPUS PLAN

Architect's Seal



Designed:

BL

Project No.

5015019-102

Drawn:

AC, MB

Scale:

1" = 160'-0"

QAQC

SC

Drawing No.

G1.11.4

Date:

10/13/2017

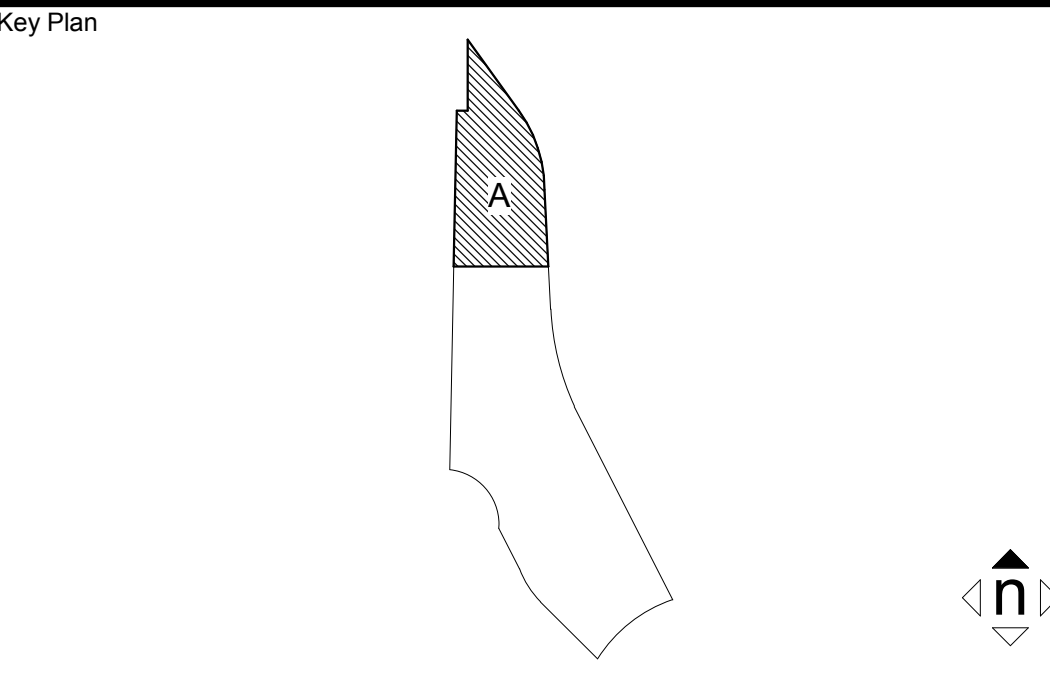
KEYNOTES

LEGEND

- LIMIT OF WORK
- SCOPE SHOWN IS IN A# 04-116581, NOT IN THIS CONTRACT

NOTES

1. REFER TO MODULAR DRAWINGS SHEET A-0 FOR FURTHER BUILDING INFORMATION.



Consultant Seal

Agency Approval

FILE NO. 37-C1

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS. FLS. SSS.

DATE

Project Title

Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road

Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

CODE ANALYSIS

Architect's Seal

Designed: BL

Project No. 5015019-102

Drawn: AC, MB

Scale: As indicated

QAQC SC

Drawing No. G1.12.4

Date: 10/13/2017

CODE ANALYSIS

1

1/16" = 1'-0"

PLEASE RECYCLE

DSA SUBMITTAL

INTERIM MODULAR CALCULATIONS

CONSTRUCTION TYPE: V-B / SINGLE STORY

OCCUPANCY: B

BASIC ALLOWABLE AREA: 9,000 S.F.

PROPOSED AREA

(2) PROPOSED 48X40 PORTABLES = (2)1,920 = 3,840 S.F.

(1) PROPOSED 24X40 PORTABLE = (1)960 = 960 S.F.

TOTAL PROPOSED: 4,800 S.F. < 9,000 S.F.

LIMIT OF WORK

A#04-116582

WORK UNDER

SEPARATE

APPLICATION

A# 04-116581

WORK UNDER

SEPARATE

APPLICATION

A# 04-116581

WORK UNDER

SEPARATE

APPLICATION

A# 04-116581

UNDER SEPARATE

APPLICATION

A# 04-116581

TYPE V-B

B OCCUPANCY

(NON-SPRINKLERED)

UNDER SEPARATE

APPLICATION

A# 04-116581

TYPE V-B

B OCCUPANCY

(NON-SPRINKLERED)

UNDER SEPARATE

APPLICATION

A# 04-116581

TYPE V-B

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(NON-SPRINKLERED)

UNDER SEPARATE

APPLICATION

A# 04-116581

TYPE V-B

B OCCUPANCY

(NON-SPRINKLERED)

UNDER SEPARATE

APPLICATION

A# 04-116581

TYPE V-B

B OCCUPANCY

(NON-SPRINKLERED)

UNDER SEPARATE

APPLICATION

A# 04-116581

TYPE V-B

B OCCUPANCY

(NON-SPRINKLERED)

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UNDER SEPARATE

APPLICATION

A# 04-116581

TYPE V-B

B OCCUPANCY

(NON-SPRINKLERED)

UNDER SEPARATE

APPLICATION

A# 04-116581

TYPE V-B

B OCCUPANCY

(NON-SPRINKLERED)

BUILDING D

TYPE V-B

B OCCUPANCY

(SPRINKLERED)

1,920 S.F.

BUILDING C

TYPE V-B

B OCCUPANCY

(SPRINKLERED)

960 S.F.

BUILDING B

TYPE V-B

B OCCUPANCY

(SPRINKLERED)

1,920 S.F.

KEYNOTES

NO.	Note - Detail
22.07	DRINKING FOUNTAIN - 16A/10.02

LEGEND

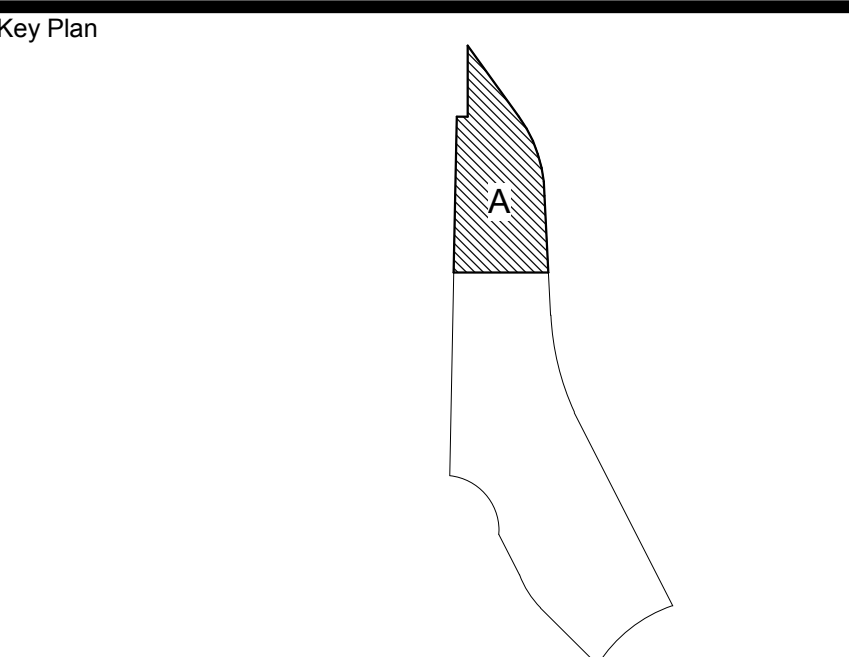
- —→ PATH OF TRAVEL
ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1/2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECTS SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
- LIMIT OF WORK
--- SCOPE SHOWN, NOT IN THIS CONTRACT

NOTES

1. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIER IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDWARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

2. REFER TO CIVIL DRAWINGS UNDER APPLICATION A# 04-116580 FOR GRADING PLANS AND ELEVATIONS



Consultant Seal	Agency Approval	FILE NO. 37-C1
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	APPL. 04-116582	
	ACS. FLS. SSS.	
	DATE	

Project Title
Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
CAMPUS ACCESS PLAN

Architect's Seal	Designed: BL	Project No. 5015019-102
	Drawn: AC, MB	Scale: As indicated
	QA/QC: SC	Drawing No. G1.13.4
	Date: 10/13/2017	

ENLARGED SITE PLAN - CAMPUS ACCESS PLAN

1
1/16" = 1'-0"

C:\Revit Local Files\5015019_A17_Central_aconteras.rvt

KEYNOTES

NO.	Note - Detail
10.23	TACTILE EXIT SIGN - EXIT- 13/A10.21
10.24	TACTILE EXIT SIGN - EXIT ROUTE - 13/A10.21
10.27	BUILDING IDENTIFICATION SIGNAGE - 14/A10.21
10.28	ROOM SIGN - 7/A10.21
10.29	CLASSROOM SIGN - 8/A10.21

NOTES

1. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC, COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

2. REFER TO CIVIL DRAWINGS UNDER APPLICATION A# 04-116580 FOR GRADING PLANS AND ELEVATIONS

LEGEND

ROOM EXITING INFORMATION

ROOM NAME
ROOM NUMBER
ROOM AREA
OCCUPANT LOAD FACTOR (REFER TO CBC TABLE 1004.1.2)
OCCUPANT LOAD
OF EXITS REQUIRED

DOOR EXITING INFORMATION

OF OCCUPANTS SERVED
REQUIRED EXITING WIDTH (32" MIN)
PROVIDED EXITING WIDTH
PANIC HARDWARE PROVIDED


EXITING TAG

OF OCCUPANTS EXITING ALONG EGRESS PATH
DIRECTION OF TRAVEL

PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. GROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECTS SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

Consultant Seal	Agency Approval IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACS. FLS. SSS. DATE
-----------------	---

Project Title	Palomar North Education Center - Interim Village
	Palomar College
	35090 Horse Ranch Creek Road Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
OCCUPANCY AND EXITING ANALYSIS


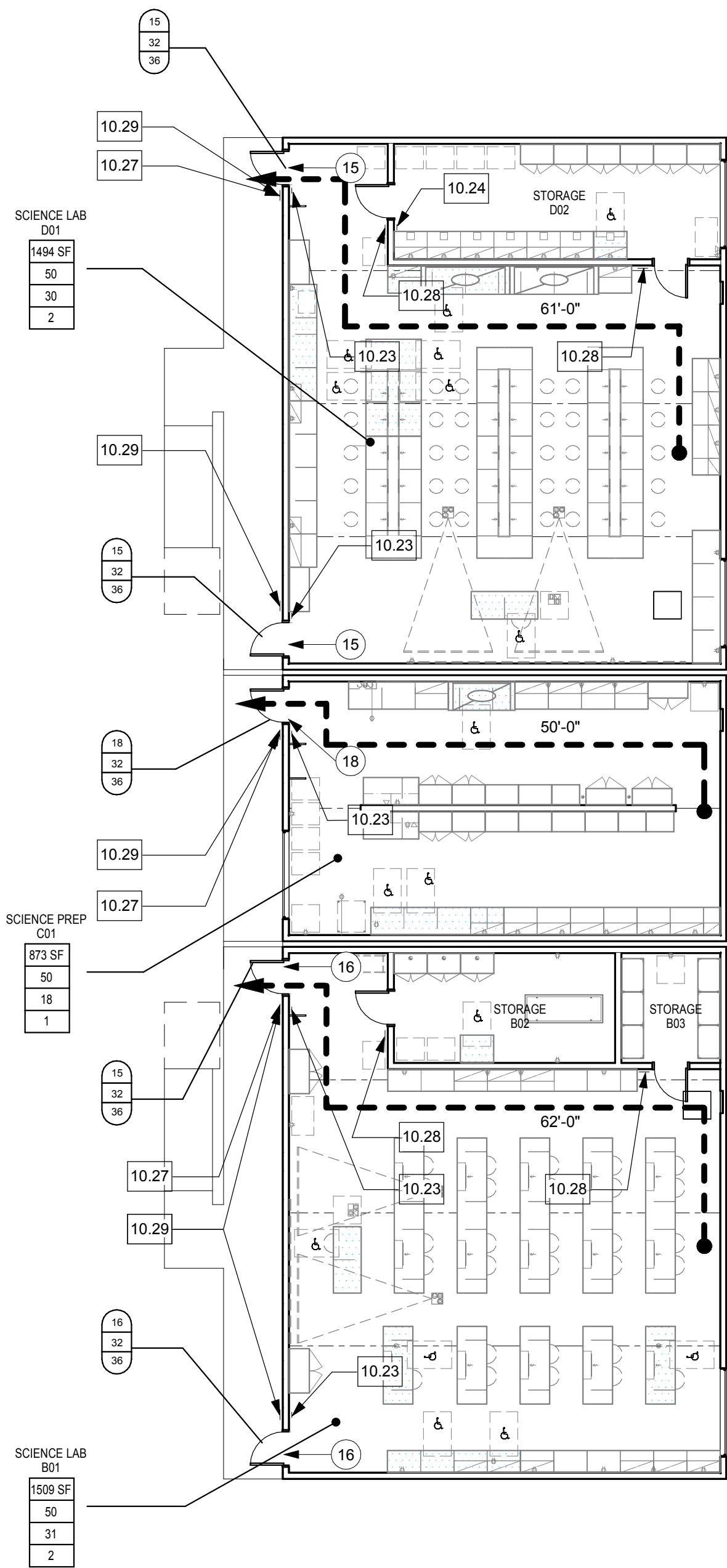
Architect's Seal 	Designed: BL Drawn: AC, MB QAQC: SC Date: 10/13/2017	Project No. 5015019-102 Scale: As indicated Drawing No. G1.14.4
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TABLE 1004.1.2 Maximum Floor Area Allowances Per Occupant		
Use Description	Occupant Load Factor	Gross/ Net
0 No Classification Applies	0	N/A
1 Accessory storage areas, mechanical equipment room	300	gross
2 Agricultural building	300	gross
3 Aircraft Hangers	500	gross
4 Airport terminal, Baggage claim	20	gross
4 Airport terminal, Baggage handling	300	gross
4 Airport terminal, Concourse	100	gross
4 Airport terminal, Waiting Areas	15	gross
5 Assembly, Gaming floors	11	gross
6 Assembly with fixed seats	1	PER SEAT
7 Assembly without fixed seats, Concentrated (chairs only- not fixed)	7	net
7 Assembly without fixed seats, Standing Space	5	net
7 Assembly without fixed seats, Unconcentrated (tables and chairs)	15	net
8 Bowling centers, additional areas	7	net
8 Bowling centers, per lane	5	EACH
9 Business area	100	gross
10 Courtrooms - other than fixed seating	40	net
11 Day care	35	net
12 Dormitories	50	gross
13 Educational, Classroom area	20	net
13 Educational, Shops and other vocational room areas	50	net
14 Exercise rooms	50	gross
15 H-5 Fabrication and manufacturing areas	200	gross
16 Industrial areas	100	gross
17 Institutional areas, Inpatient treatment areas	240	gross
17 Institutional areas, Outpatient areas	100	gross
17 Institutional areas, Sleeping areas	120	gross
18 Kitchens, commercial	200	gross
19 Library, Reading rooms	50	net
19 Library, Stack areas	100	gross
20 Locker rooms	50	gross
21 Mercantile, Areas on other floors	60	gross
21 Mercantile, Basement and grade floor areas	30	gross
21 Mercantile, Storage, stock, shipping areas	300	gross
22 Parking garages	200	gross
23 Residential	200	gross
24 Skating rinks and swimming pools, Decks	50	gross
24 Skating rinks and swimming pools, Rink and pool	15	gross
25 Stages and platforms	15	net
26 Warehouses	500	gross

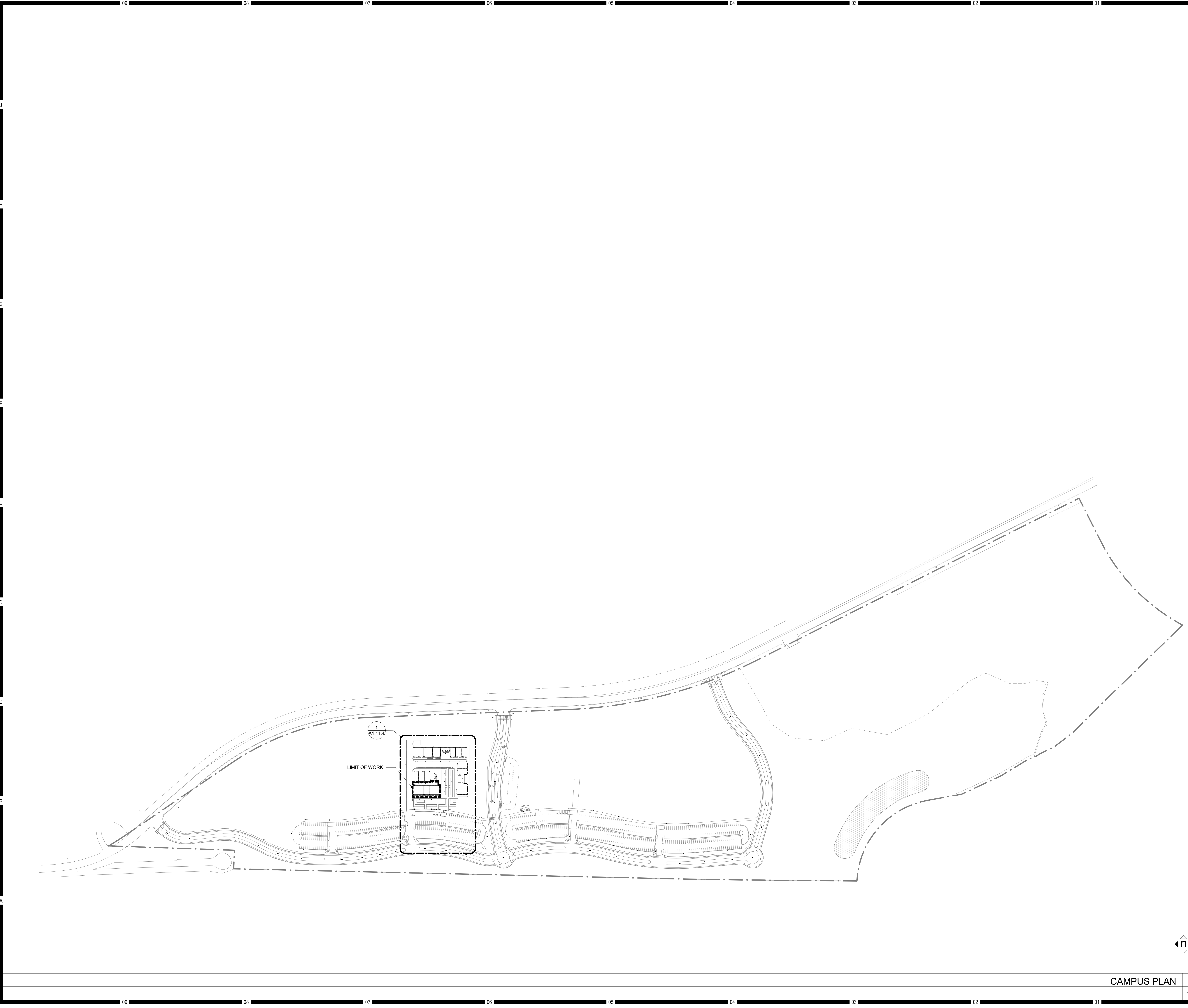


ENLARGED SITE PLAN - OCCUPANCY & EXITING ANALYSIS

1
3/32" = 1'-0"



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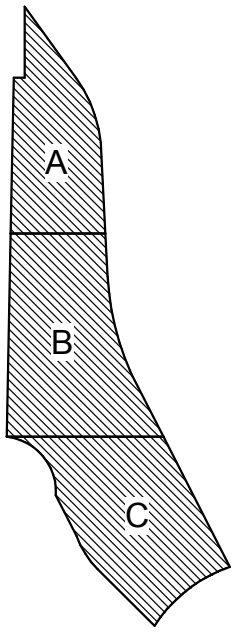


HMC Architects

3546 Concourse Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

SM

Key Plan



Consultant Seal

Agency Approval FILE NO. 37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116582
ACS. FLS. SSS.
DATE

Project Title



Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
OVERALL CAMPUS PLAN

Architect's Seal



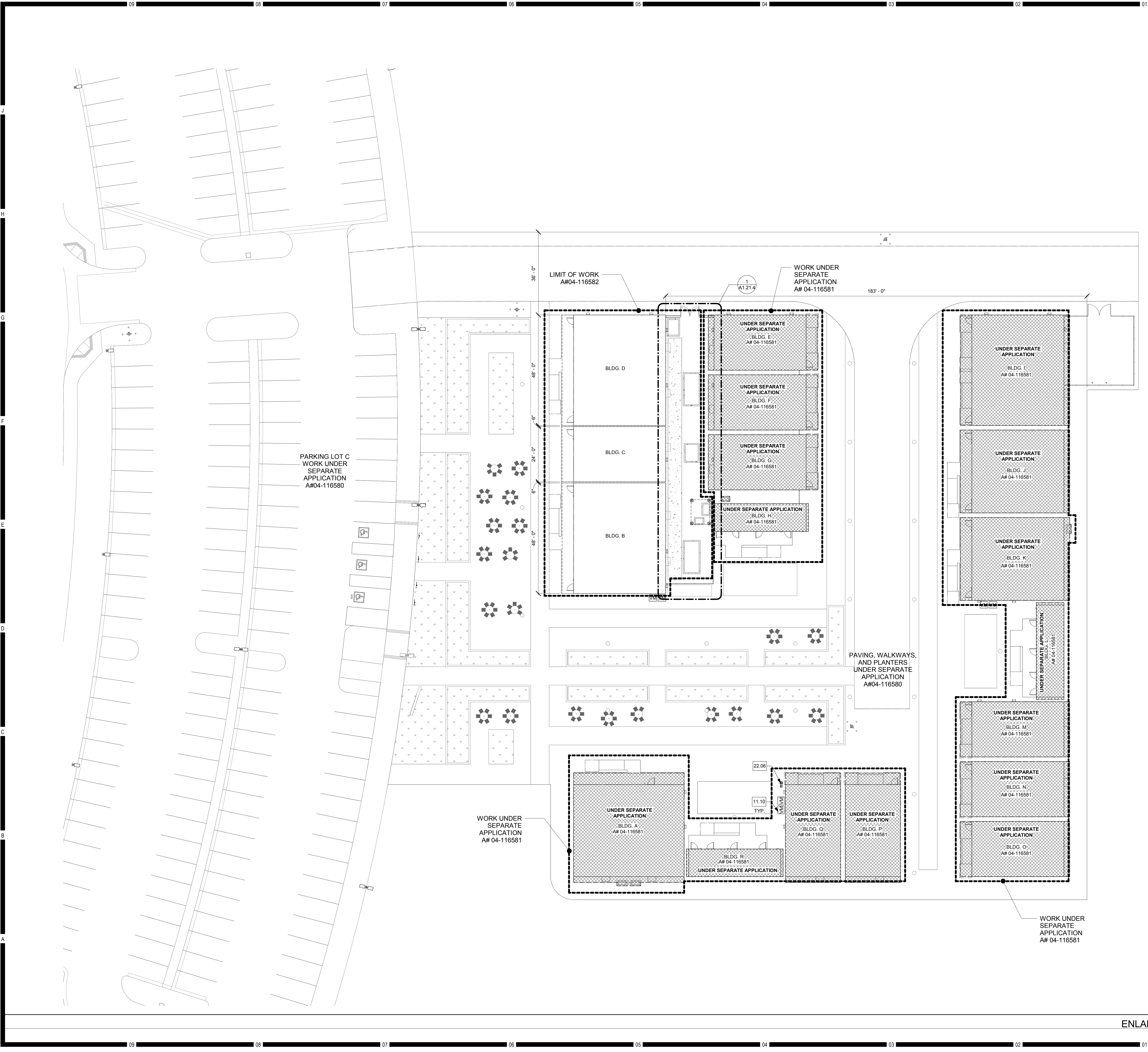
Designed: BL
Drawn: AC, MB
QAQC: SC
Date: 10/13/2017
Project No. 5015019-102
Scale: 1" = 160'-0"
Drawing No. **A1.10.4**

CAMPUS PLAN

1

1" = 160'-0"

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KEYNOTES

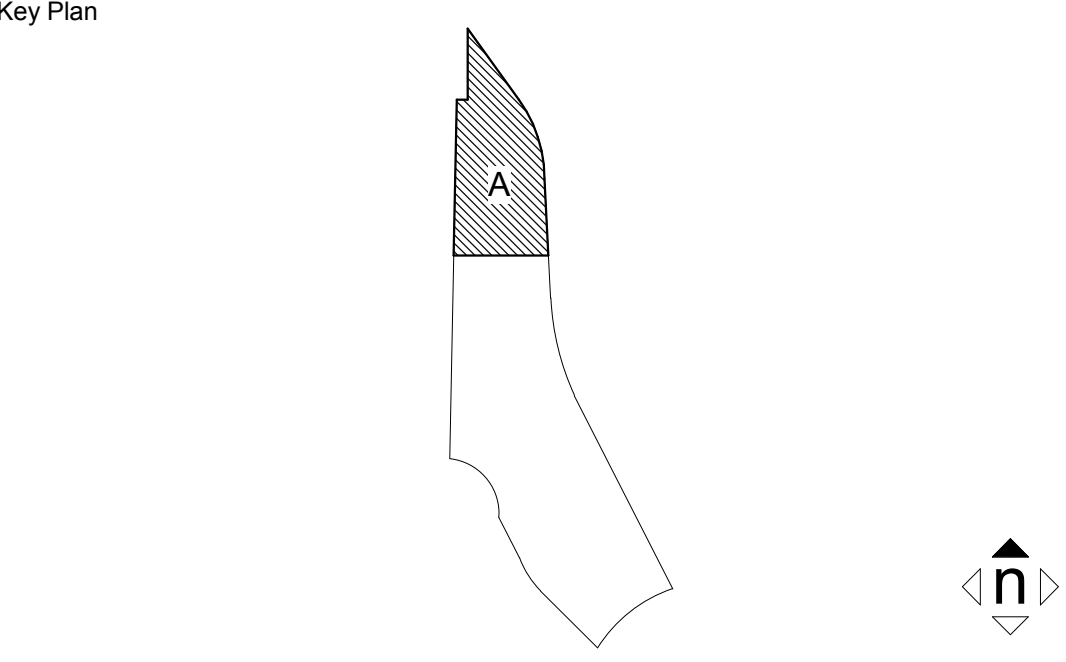
NO.	Note - Detail
J 11.10 22.06	VENDING MACHINE - OFOI DRINKING FOUNTAIN PER A# 04-116580

LEGEND

- LIMIT OF WORK
- SCOPE SHOWN IS IN A# 04-116581, NOT IN THIS CONTRACT

NOTES

- REFER TO CIVIL DRAWINGS UNDER APPLICATION A# 04-116580 FOR GRADING PLANS AND ELEVATIONS



Consultant Seal	Agency Approval IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACS. FLS. SSS. DATE
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Project Title	Palomar North Education Center - Interim Village
Palomar College	35090 Horse Ranch Creek Road Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
ENLARGED SITE PLAN

Architect's Seal	Designed: BL	Project No. 5015019-102
NO. C-32437 STATE OF CALIFORNIA	Drawn: AC, MB	Scale: As indicated
	QAQC SC	Drawing No. A1.11.4
	Date: 10/13/2017	

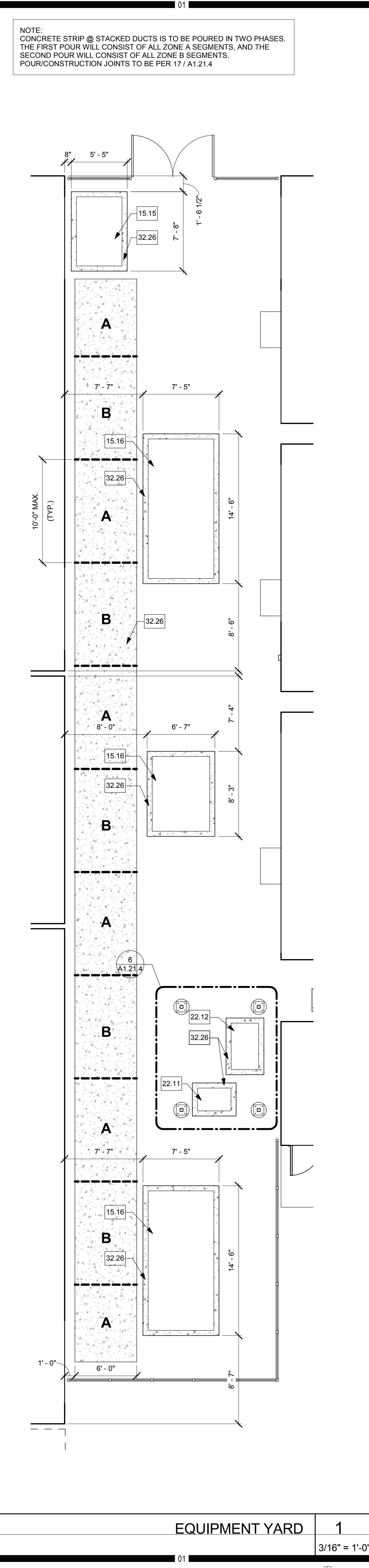
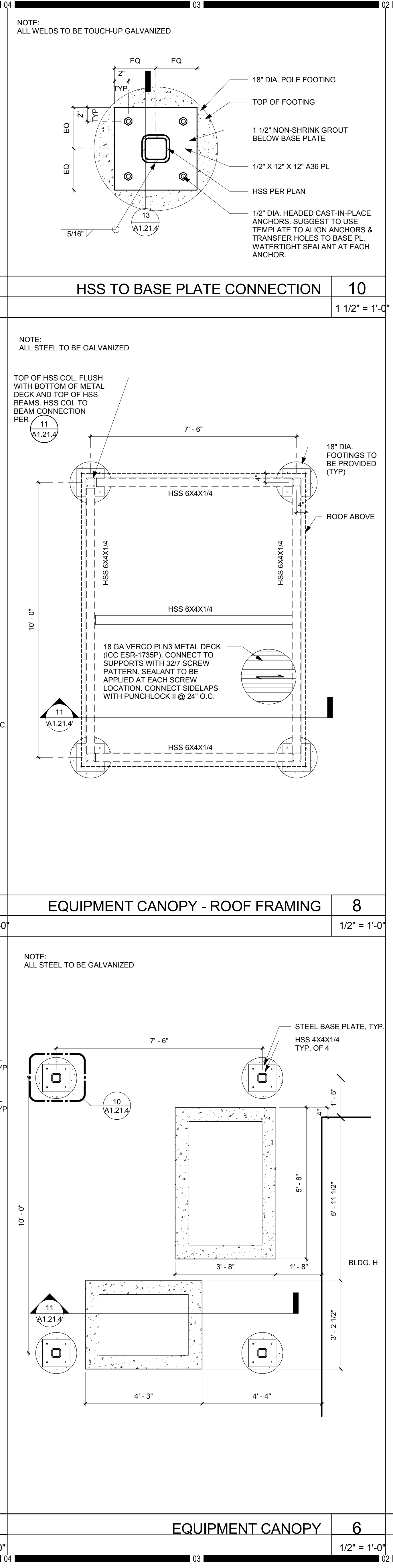
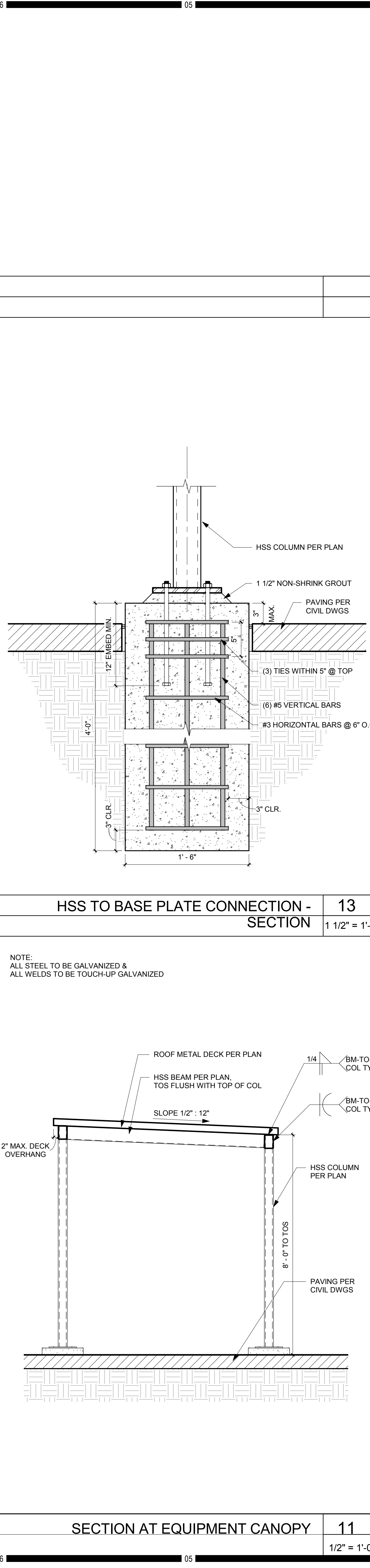
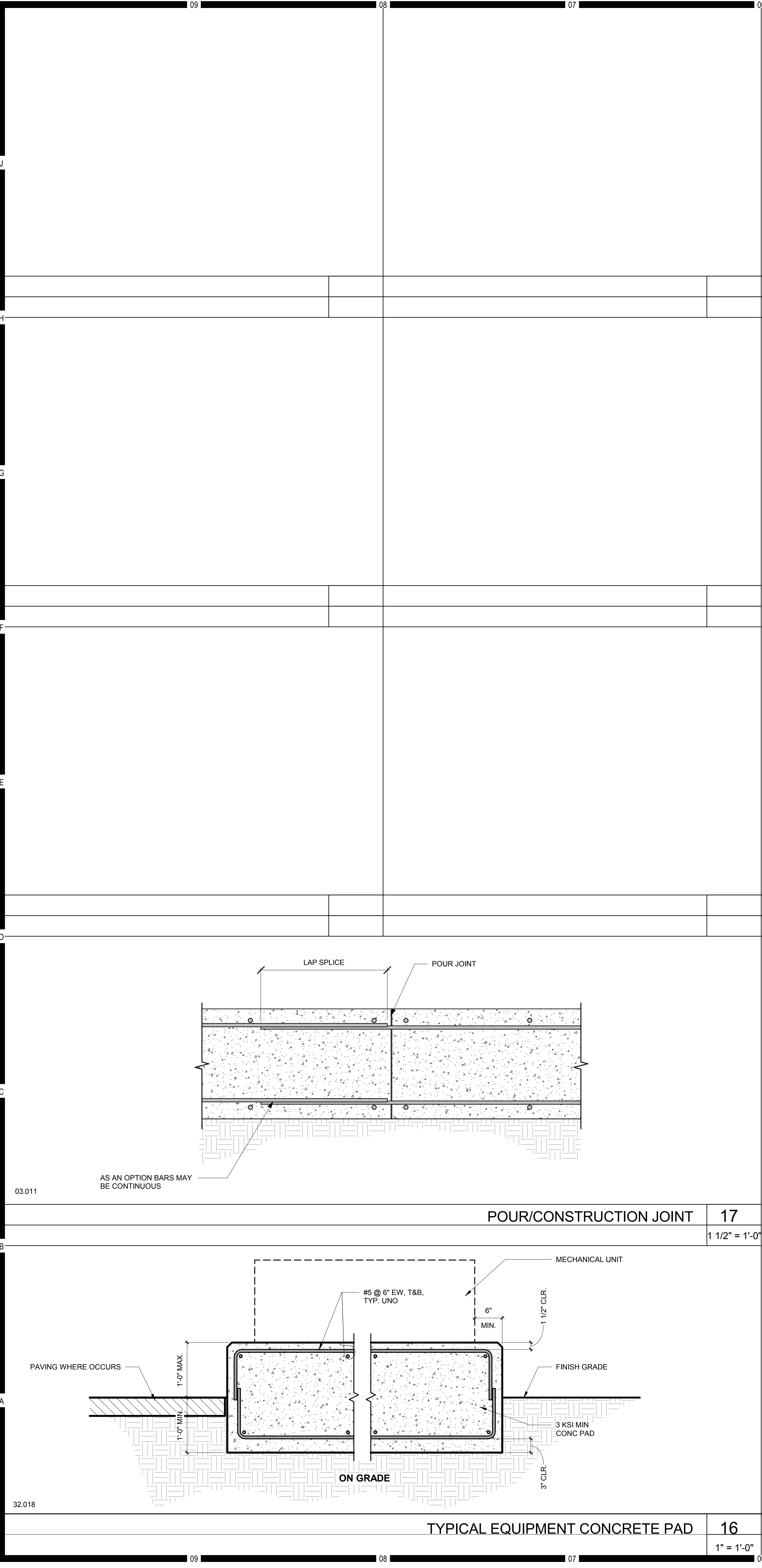
ENLARGED SITE PLAN

1
1/16" = 1'-0"

PLEASE RECYCLE

DSA SUBMITTAL

C:\Revit Local Files\5015019_A17_Central_aconteras.rvt



HMC Architects

3546 Concourse Street / Ontario, CA 91764
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KEYNOTES

NO.	Note - Detail
15.15	EXHAUST FAN, REFER TO MECHANICAL DWGS
15.16	AIR HANDLING UNIT, REFER TO MECHANICAL DWGS
22.11	LABORATORY COMPRESSOR, REFER TO PLUMBING DWGS.
22.12	LABORATORY VACUUM, REFER TO PLUMBING DWGS
32.26	CONCRETE HOUSE KEEPING SLAB - 16/A1.21.4

NOTES

Consultant Seal

Agency Approval

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS. FLS. SSS.

DATE

Project Title

Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road

Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

ENLARGED SITE PLAN/SITE DETAILS

Architect's Seal

NO. C-32437

STATE OF CALIFORNIA

Designed: BL

Drawn: AC, MB

QA/QC: SC

Date: 10/13/2017

Project No. 5015019-102

Scale: As indicated

Drawing No. **A1.21.4**





10/26/2017 8:40:03 AM PLEASE RECYCLE DSA SUBMITTAL

KEYNOTES

NO.	Note - Detail
08.22	ACCESS PANEL PER PLUMBING - 8/A10.11
10.61	GUARDRAIL - 13/A10.11
11.02	CEILING MOUNTED PROJECTOR, OFOI - 19/A10.31
15.01	DUCT OPENING AT FLOOR PER MECHANICAL DWGS - 4/A10.11
15.02	ACCESS PANEL PER MECHANICAL - 5/A10.11
22.09	PIPE OPENINGS AT FLOOR PER PLUMBING DWGS - 3/A10.11
26.02	LIGHT FIXTURE, REFER TO ELECTRICAL DWGS

NOTES

LEGEND

(A101)	DOOR TAG, REFER TO DOOR SCHEDULE ON SHEET A9.11.4						
	WALL TAG, REFER TO WALL TYPES ON SHEET A10.11						
1'-0" AFF	CEILING TAG HEIGHT						
	SUSPENDED T-BAR CEILING SYSTEM <table><tr><td>1</td><td>2</td><td>8</td></tr><tr><td>A10.31</td><td>A10.31</td><td>A10.31</td></tr></table>	1	2	8	A10.31	A10.31	A10.31
1	2	8					
A10.31	A10.31	A10.31					
	MECHANICAL DIFFUSER						
	LIGHT FIXTURE						

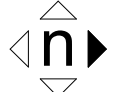
Consultant Seal	Agency Approval	FILE NO. 37-C1
	IDENTIFICATION STAMP	DIV. OF THE STATE ARCHITECT
	APPL. 04-116582	
	ACS. FLS. SSS.	
	DATE	

Project Title	Palomar North Education Center - Interim Village
	Palomar College
	35090 Horse Ranch Creek Road
	Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
FLOOR PLANS AND RCP

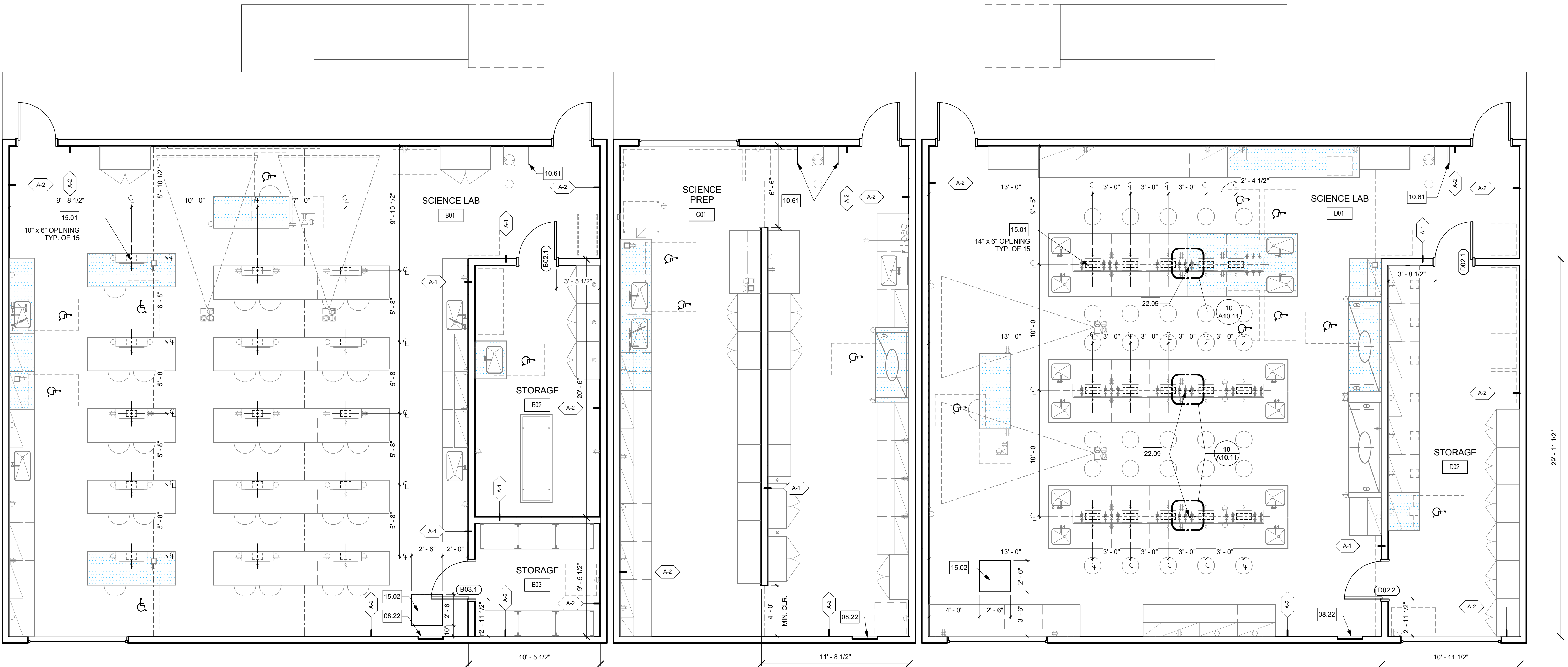
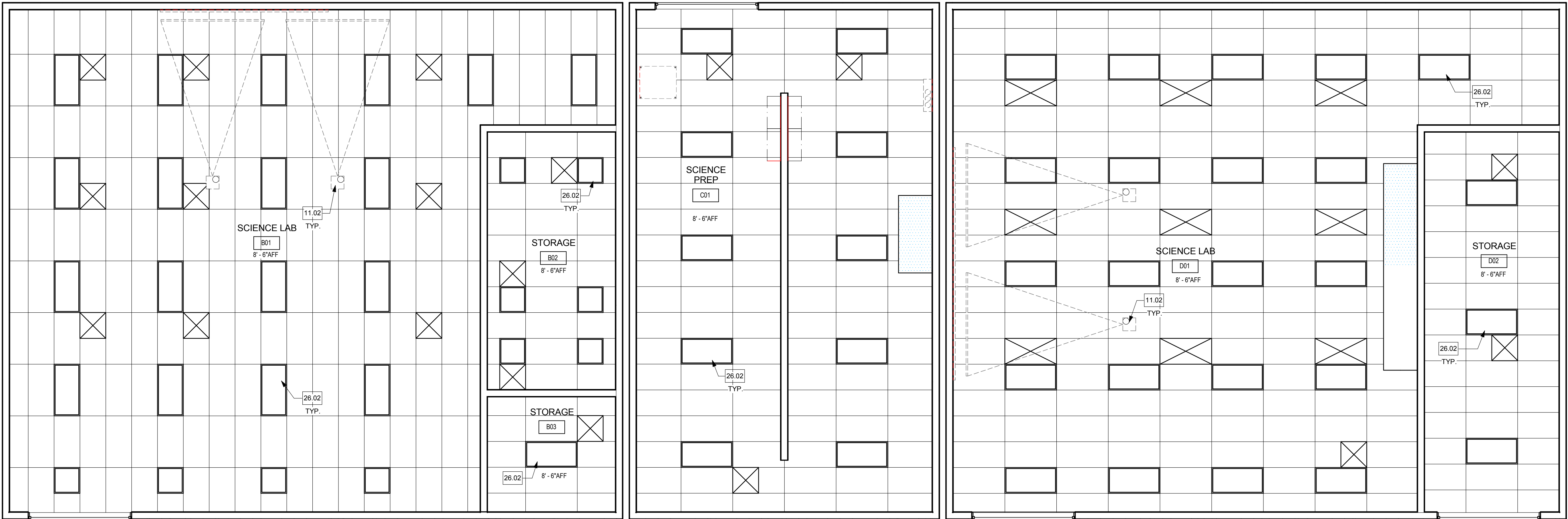
Architect's Seal	Designed: BL	Project No. 5015019-102
	Drawn: AC, MB	Scale: 1/4" = 1'-0"
	QA/QC SC	Drawing No. A2.11.4
	Date: 10/13/2017	



BLDG. B, C, D REFLECTED CEILING PLAN

2

1/4" = 1'-0"



BLDG. B, C, D FLOOR PLANS

1

1/4" = 1'-0"

PLEASE RECYCLE

DSA SUBMITTAL

KEYNOTES

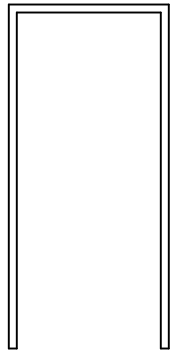
NOTES

1. REFER TO SHEET G0.10.4 FOR TYPICAL ABBREVIATIONS

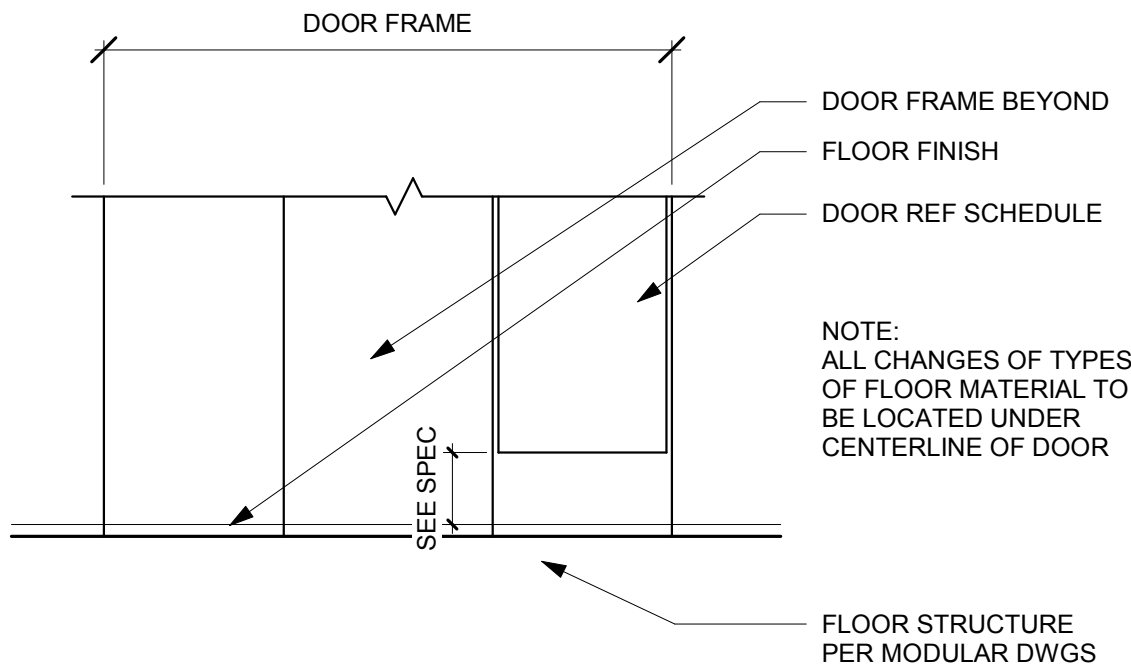
DOOR SCHEDULE ABBREVIATIONS:

HM	HOLLOW METAL
PT	PAINTED
SSCD	STEEL STIFFENED CORE DOORS
T	TEMPERED GLAZING

DOOR SCHEDULE - LAB CLASSROOMS																				
DOOR NUMBER	DOOR SIZE			Fire Rating	Door				FRAME			HARDWARE GROUP	PANIC	GLASS	DETAILS (SHEET A10.15 U.N.O.)				Comments	
	PANEL 1	WIDTH			HEIGHT	MATERIAL	FINISH	PANEL TYPE	UNDERCUT	MATERIAL	FINISH				FRAME TYPE	HEAD	JAMB 1	JAMB 2		THRESH
B02.1	3' - 0"		7' - 0"	NR	SSCD	PT	02	0' - 0"	HM	PT	A : S	1	No	T	1/A9.11.4	1/A9.11.4	N/A	2/A9.11.4		
B03.1	3' - 0"		7' - 0"	NR	SSCD	PT	02	0' - 0"	HM	PT	A : S	1	No	T	1/A9.11.4	1/A9.11.4	N/A	2/A9.11.4		
D02.1	3' - 0"		7' - 0"	NR	SSCD	PT	02	0' - 0"	HM	PT	A : S	1	No	T	1/A9.11.4	1/A9.11.4	N/A	2/A9.11.4		
D02.2	3' - 0"		7' - 0"	NR	SSCD	PT	02	0' - 0"	HM	PT	A : S	1	No	T	1/A9.11.4	1/A9.11.4	N/A	2/A9.11.4		



A:S



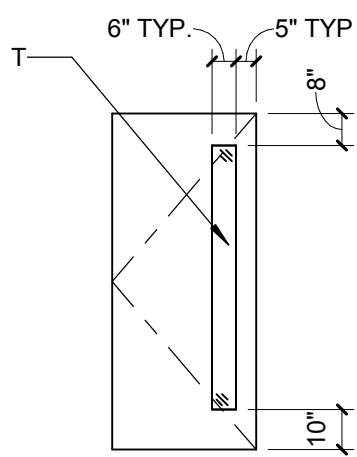
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DOOR FRAMES

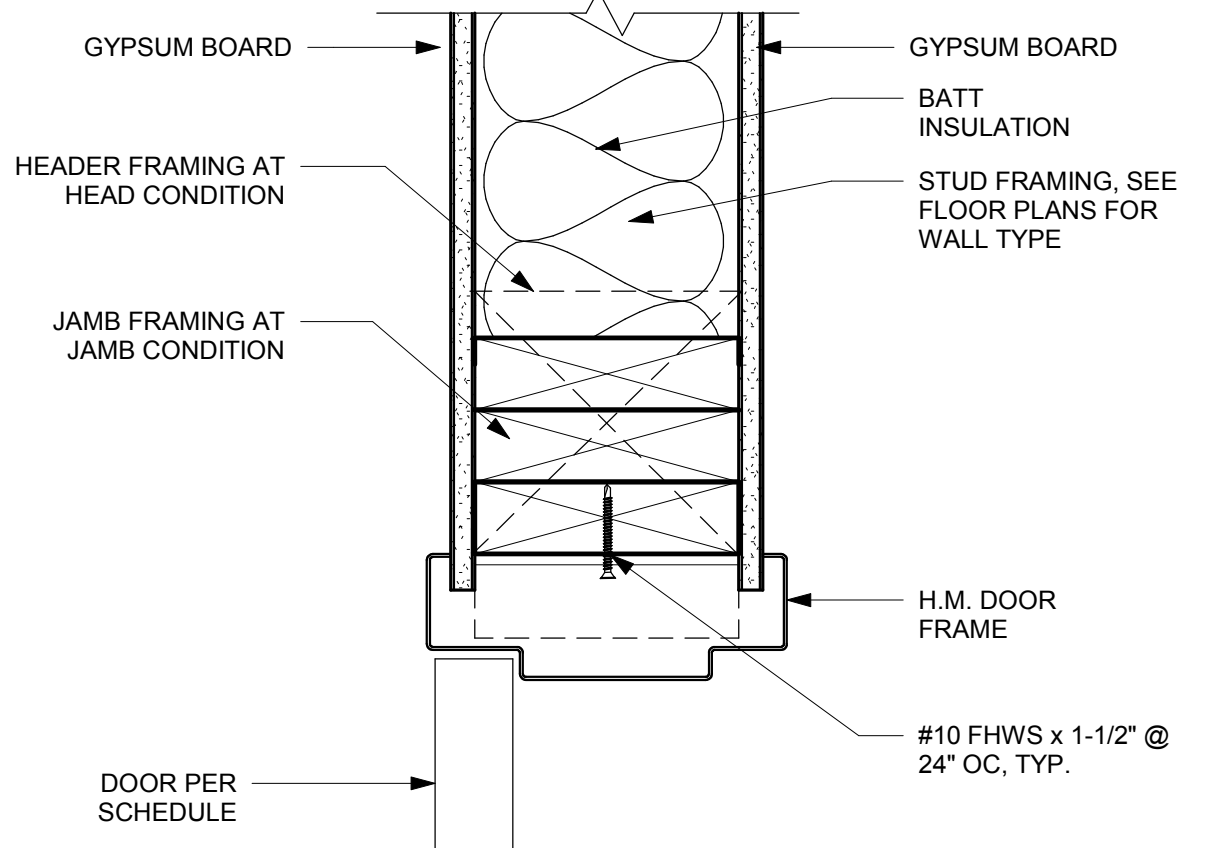
INTERIOR DOOR SILL

2

6" = 1'-0"



02:S



08.306

DOOR PANELS

INT. HM DOOR HEAD / JAMB

1

3" = 1'-0"

Consultant Seal

Agency Approval

FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS____ FLS____ SSS____
DATE____

Project Title



Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
SCHEDULES & DETAILS

Architect's Seal



Designed:

BL

Project No.

5015019-102

Drawn:

AC, MB

Scale:

As indicated

QAQC

SC

Drawing No.

A9.11.4

Date:

10/13/2017

KEYNOTES

NOTES

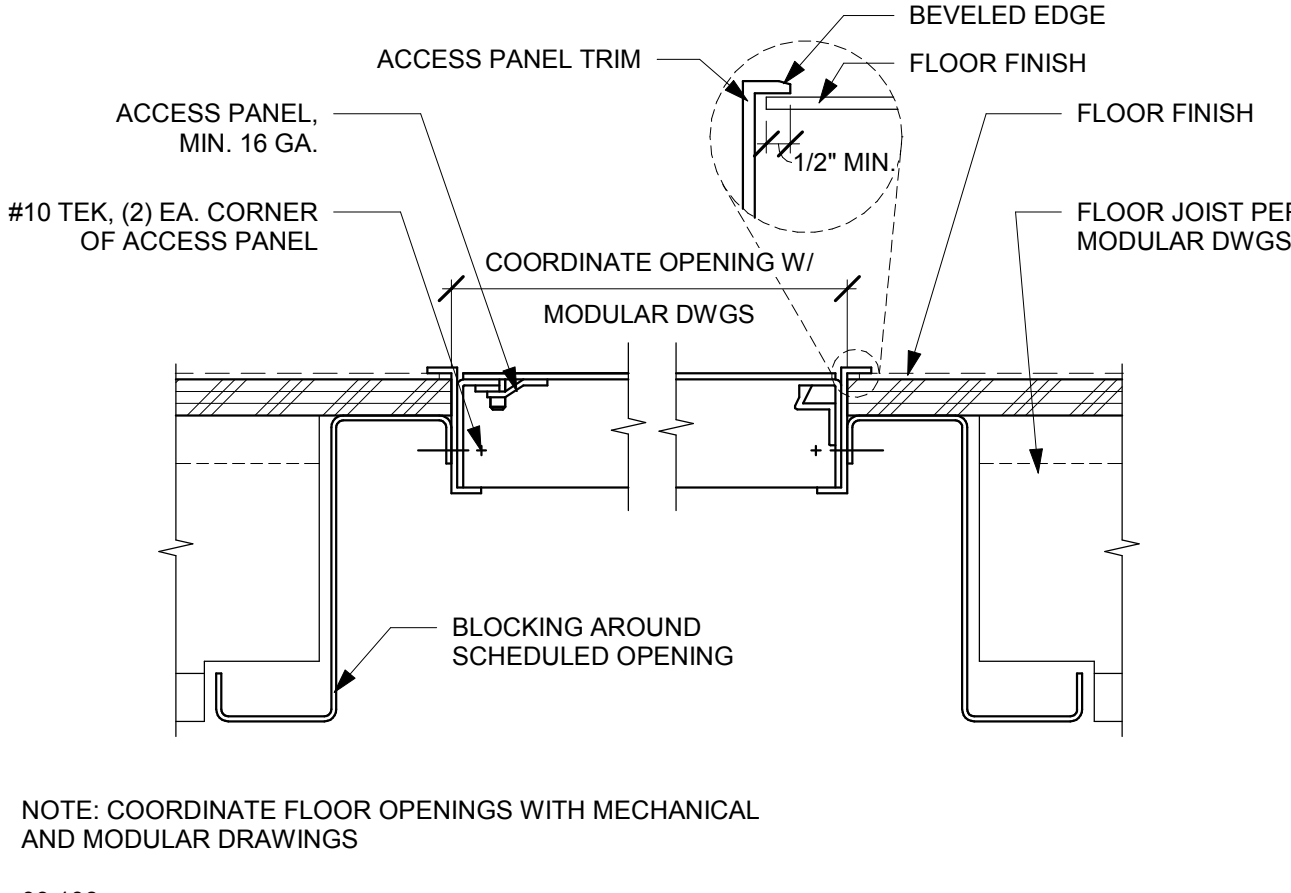
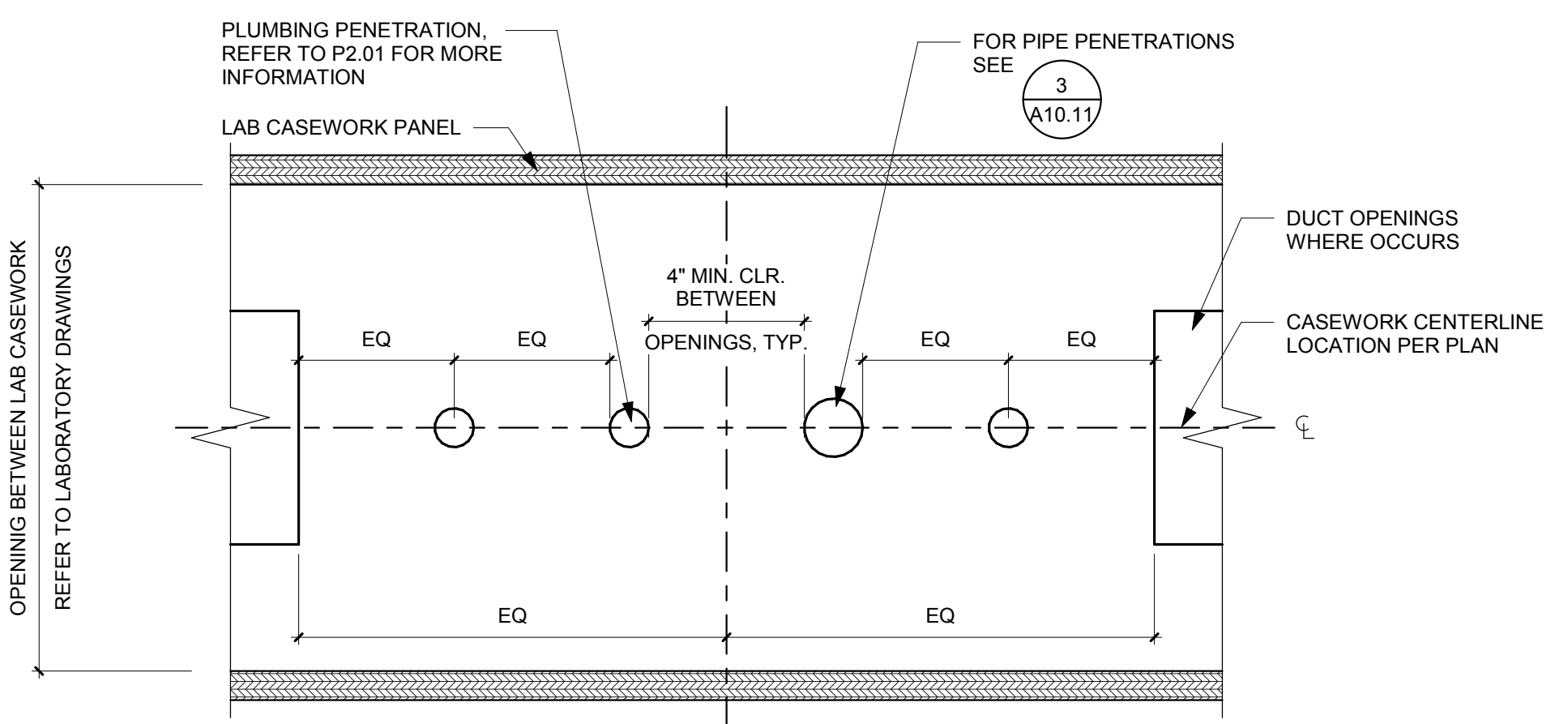
Consultant Seal
Agency Approval
FILE NO. 37-C1
IDENTIFICATION STAMP
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APPL. 04-116582
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DATE

Project Title
Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

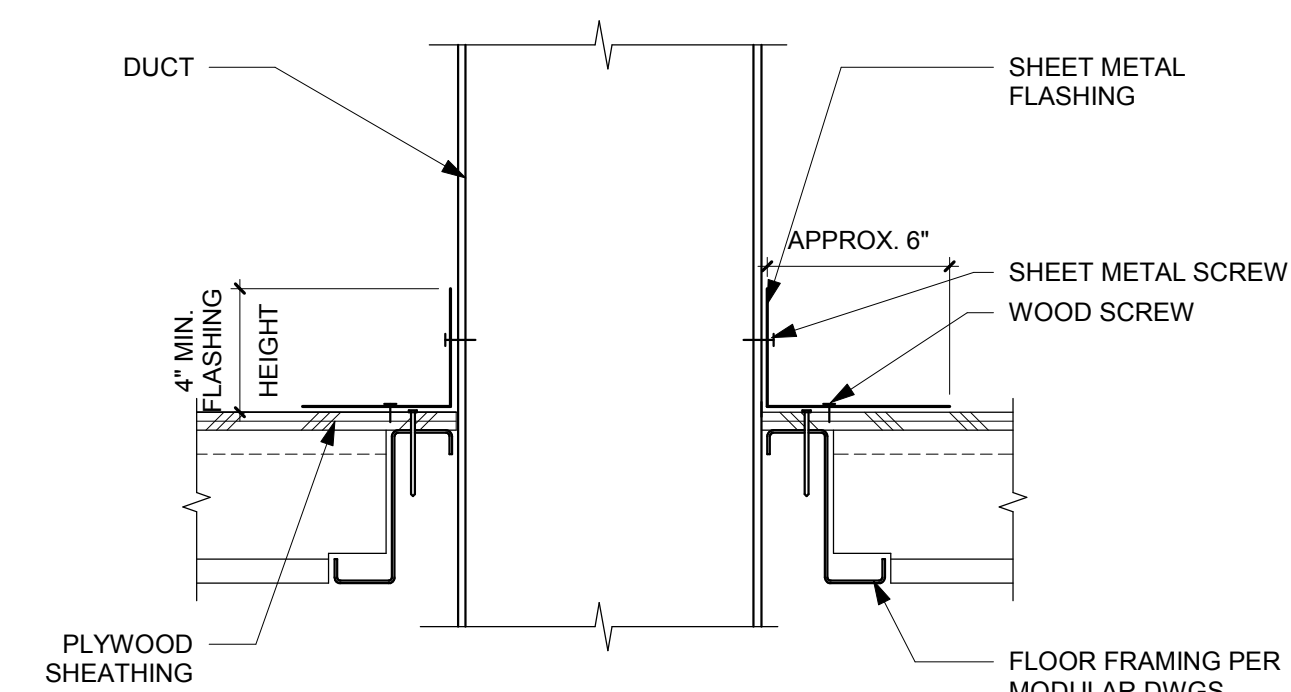
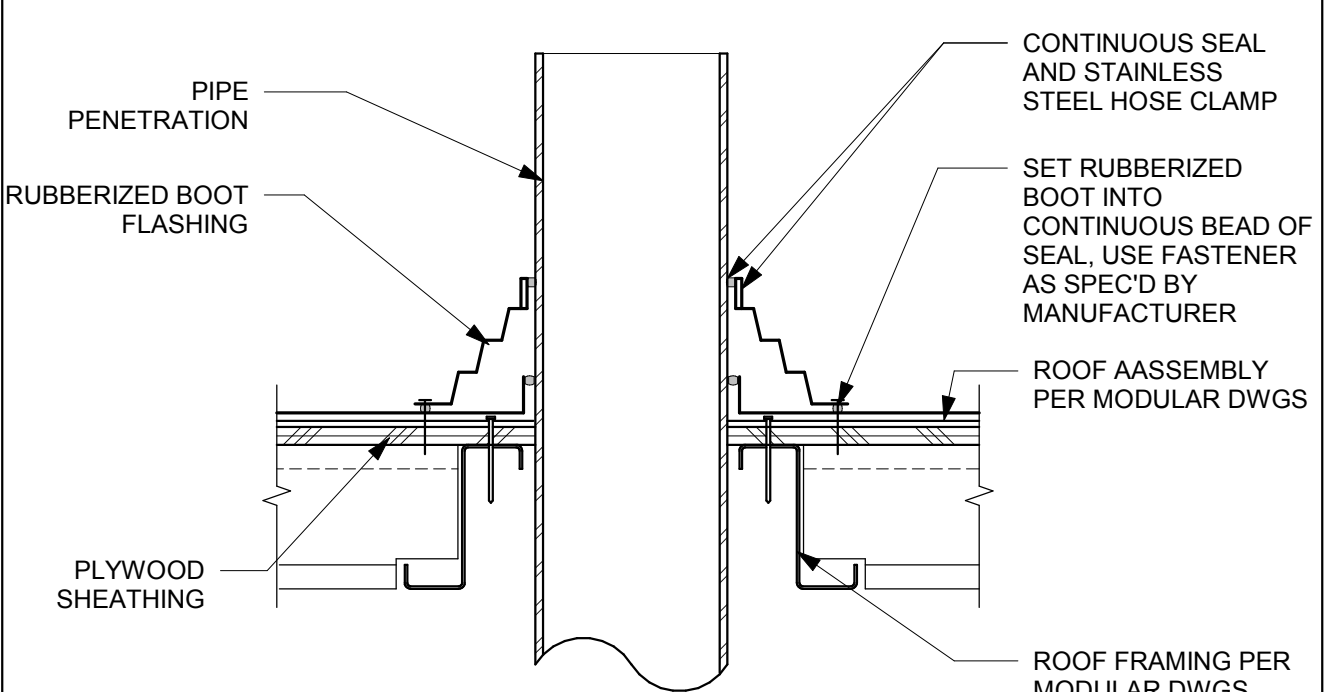
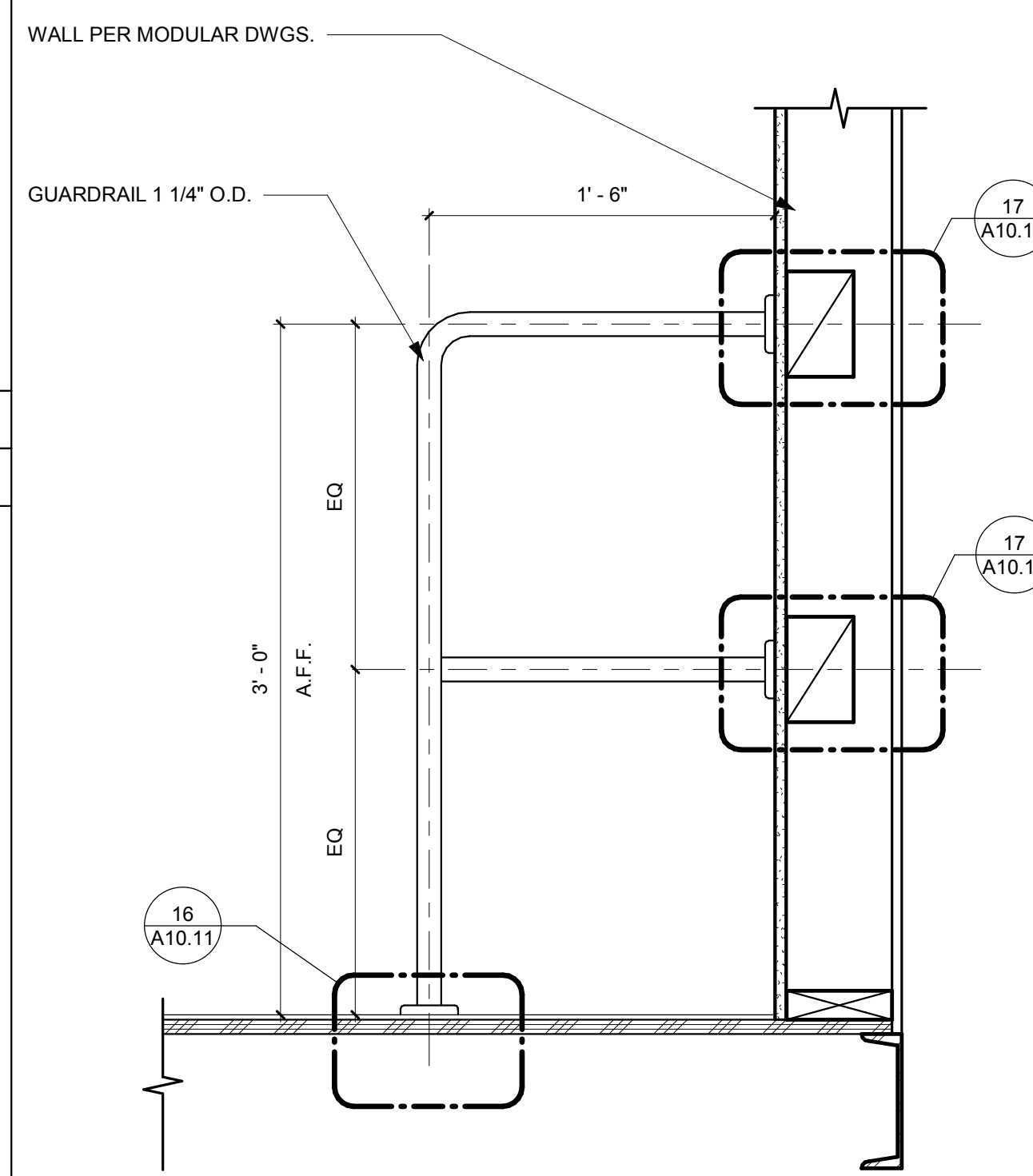
Drawing Title:
WALL DETAILS/MISCELLANEOUS
DETAILS

Architect's Seal
Designed: BL
Project No. 5015019-102
Drawn: AC, MB
Scale: As indicated
QAQC
SC
Drawing No. A10.11
Date: 10/13/2017



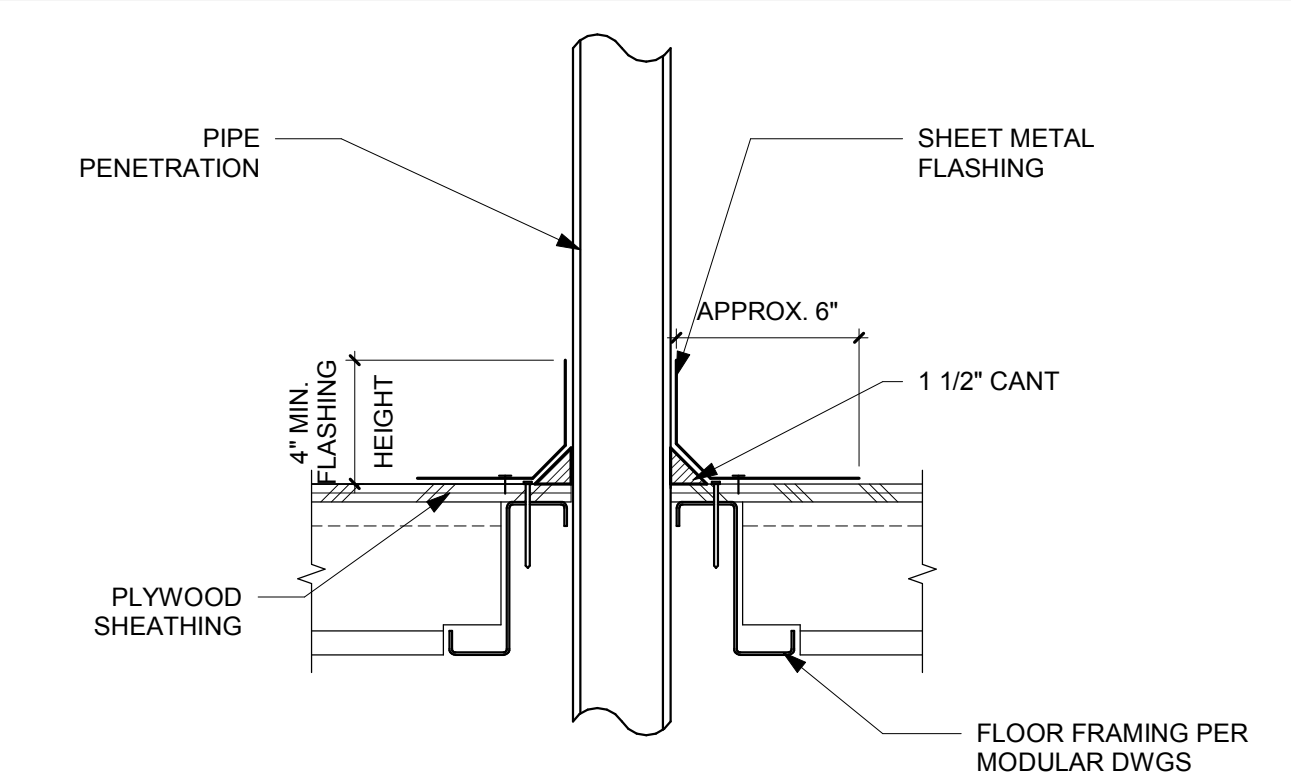
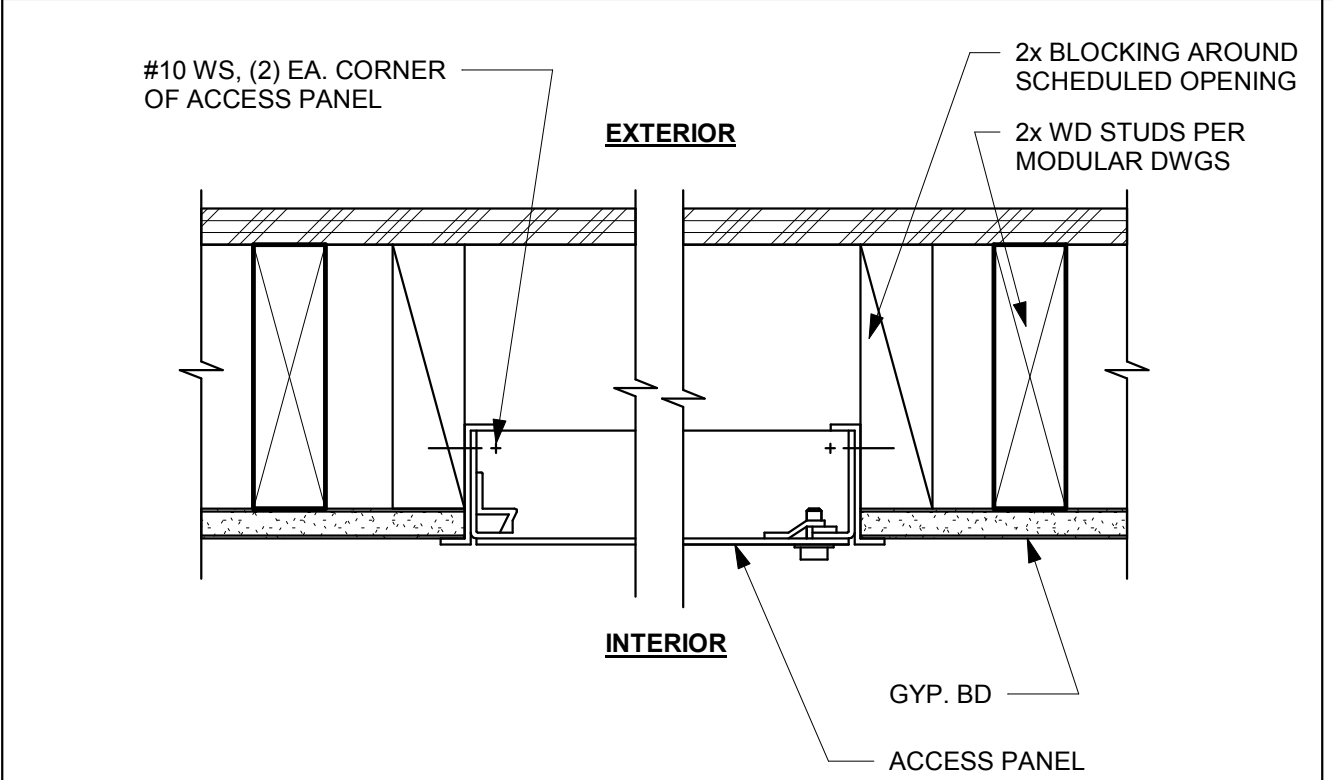
PIPE PENETRATION LOCATIONS AT FLOOR 10
3" = 1'-0"

FLOOR ACCESS PANEL 5
3" = 1'-0"



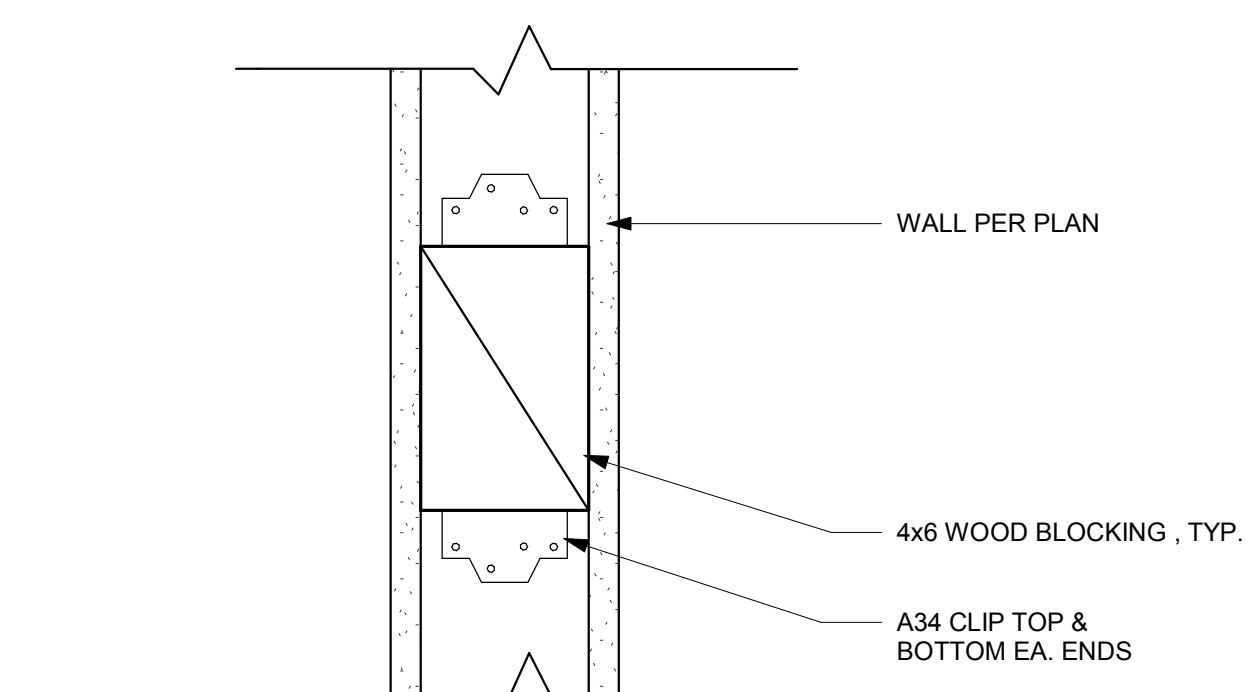
PLUMBING VENT @ ROOF 9
1 1/2" = 1'-0"

DUCT PENETRATION @ FLOOR 4
1 1/2" = 1'-0"

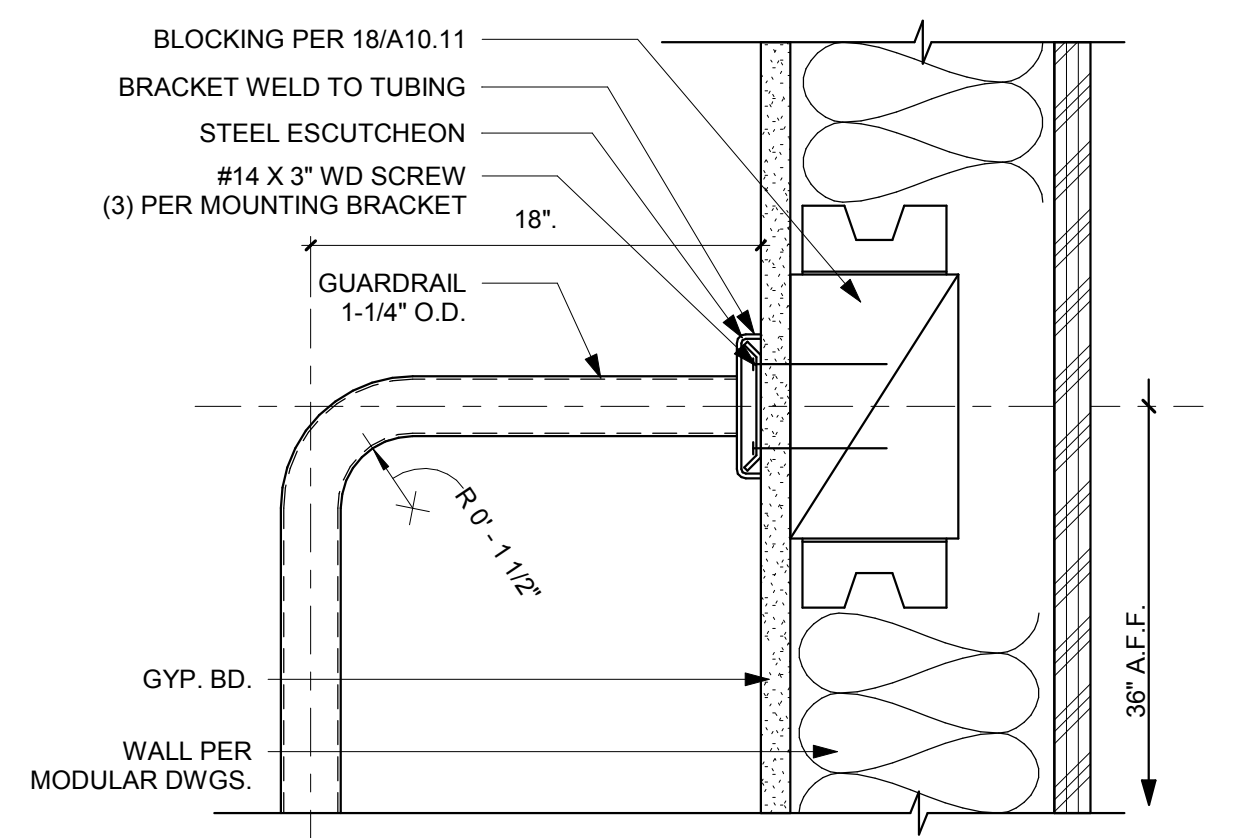


WALL ACCESS PANEL 8
3" = 1'-0"

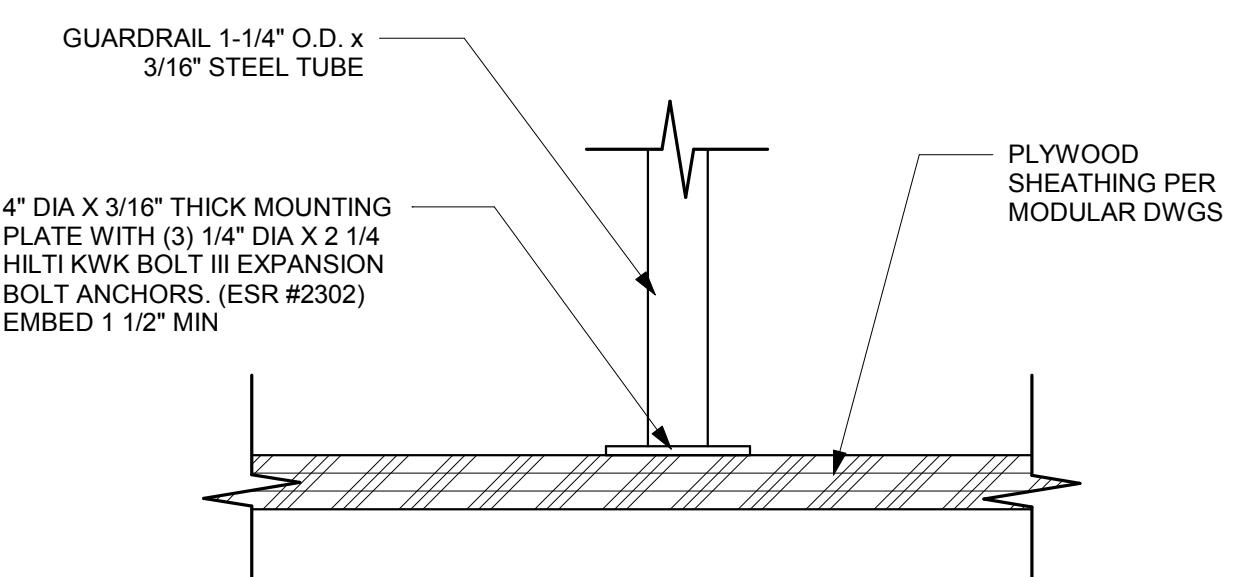
PIPE PENETRATION @ FLOOR 3
1 1/2" = 1'-0"



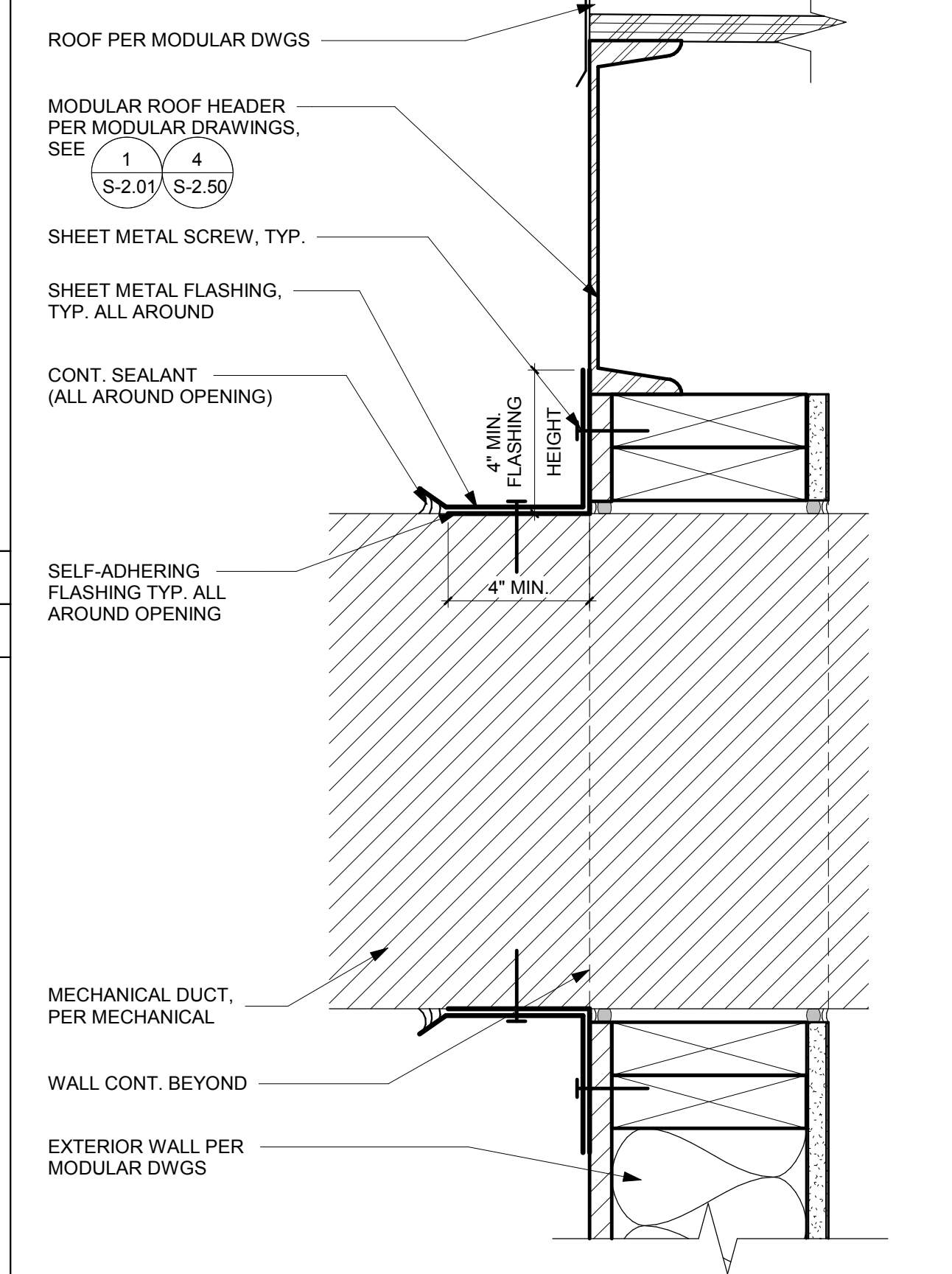
TYPICAL BACKING DETAIL 18
3" = 1'-0"



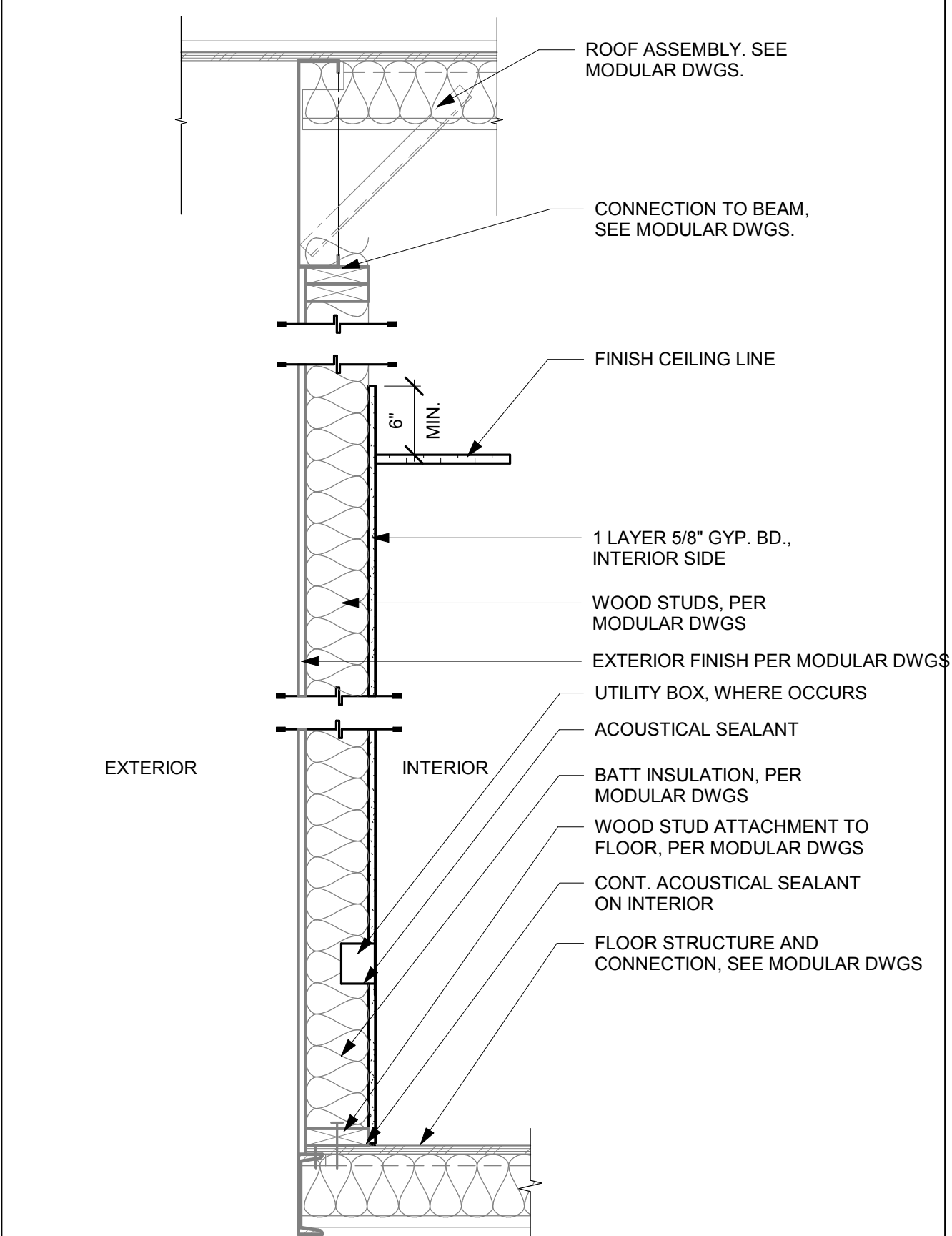
EYEWASH GUARDRAIL @ WALL 17
3" = 1'-0"



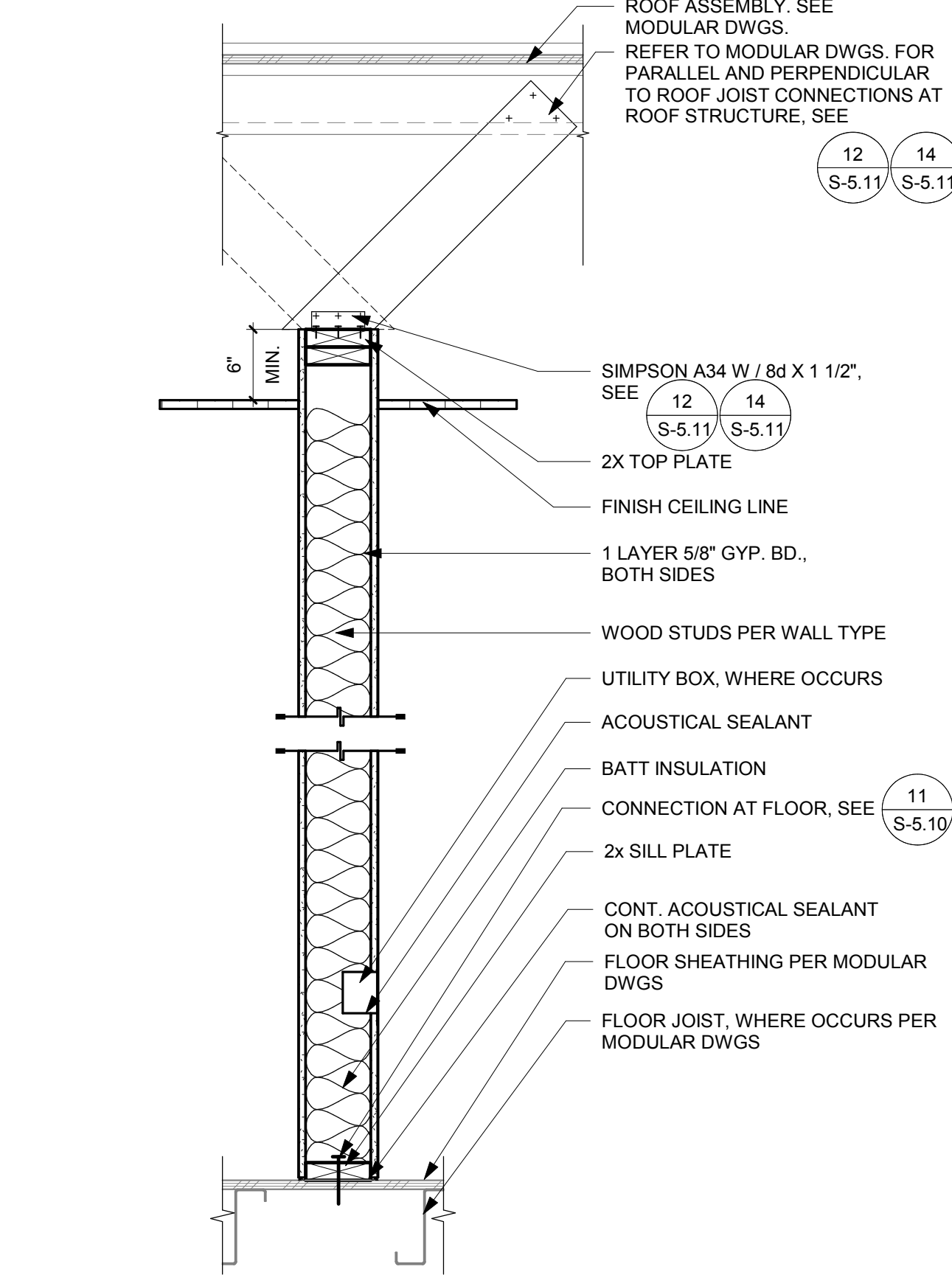
EYEWASH GUARDRAIL @ FLOOR 16
3" = 1'-0"



DUCT PENETRATION THRU WALL 11
3" = 1'-0"




INTERIOR WALL TYPE "A-2" 6
1" = 1'-0"



INTERIOR WALL TYPE "A-1" 1
1" = 1'-0"

SIGNAGE DETAILS

Architect's Seal



Designed:	BL	Project No.	5015019-102
Drawn:	AC, MB	Scale:	As indicated
QA/QC	SC	Drawing No.	A10.21
Date:	10/13/2017		

GENERAL NOTES

1. ALL WALL BENCHTOPS AND MOVABLE TABLES SHALL BE 30" DEEP INCLUDING WALL BENCH BACK SPLASH (UNLESS OTHERWISE NOTED).
2. ALL ISLAND/PENINSULA BENCHTOPS SHALL BE 60" DEEP (UNLESS OTHERWISE NOTED).
3. ALL BENCHES AND TABLES SHALL BE 36" HIGH (UNLESS OTHERWISE NOTED).
4. ALL BENCH/TABLE TOPS TO BE 1" THICK EPOXY RESIN (UNLESS OTHERWISE NOTED).
5. ALL BACK AND SIDE SPLASHES TO BE 3/4" THICK AND 4" HIGH, PIPEDROP CURBS TO BE 3/4" THICK AND 5" HIGH (UNLESS OTHERWISE NOTED).
6. PROVIDE SIDESPLASHES AT ALL BENCH TOPS AGAINST FUME HOODS AND/OR ADJACENT WALLS.
7. OVERALL LENGTH OF BENCHTOPS SHALL BE DETERMINED BY CASEWORK SIZES AND DIMENSIONS AS INDICATED ON PLANS. TOPS SHALL OVERHANG 1/2" AT EACH END AND 1" FROM FRONT OF BASE CABINETS AND TABLES. WHEN OVERALL DIMENSIONS ARE GIVEN, 1/2" OVERHANG IS NOT INCLUDED.
8. ALL CASEWORK, FUME HOODS AND ANY OTHER FURNISHINGS WITH EXPOSED-TO-VIEW BACKS AND SIDES SHALL BE FINISHED.
9. INSTALL CLOSURE PANELS BETWEEN BACK OF HOODS AND WALLS AT EXPOSED ENDS AND BETWEEN BASE CABINETS AND/OR HOODS THAT ARE SET BACK TO BACK. FOR BASE CABINETS, PROVIDE EXTENDED ENDS AT THESE LOCATIONS.
10. ALL PENETRATIONS THROUGH BENCHTOP SHALL BE SEALED WITH SEALANT.
11. BACKS OF COUNTERTOPS AND SPLASHES AGAINST WALLS SHALL BE SEALED TO THE WALL WITH SEALANT.
12. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
13. OWNER'S REPRESENTATIVE WILL SELECT COLORS FOR ALL COMPONENTS OF PROJECT INDICATED ON THESE DRAWINGS. COLOR SELECTION WILL BE FROM THE CASEWORK MANUFACTURER'S STANDARD COLOR LINE.
14. FREE STANDING SHELVING AND CASEWORK LESS THAN 18" DEEP SHALL BE SECURED TO PREVENT TIPPING.
15. SAFETY SHOWER/EYEWASH UNITS SHALL COMPLY WITH ANSI STANDARDS FOR USABILITY BY THE PHYSICALLY DISABLED. SAFETY SHOWER/EYEWASH UNITS SHALL BE FURNISHED UNDER DIVISION 11 FOR INSTALLATION UNDER DIVISION 22.
16. FOR LABORATORY SERVICE FITTING TYPES, LOCATIONS AND ORDER, SEE LABORATORY FURNISHINGS PLANS. THESE FITTINGS SHALL BE PROVIDED UNDER DIVISION 11, FOR INSTALLATION UNDER DIVISION 22 U.O.N.
17. AT ALL TALL FREESTANDING VENTED, CORROSIVE STORAGE CABINETS, VENT PIPING WILL BE PROVIDED AND INSTALLED FROM THE CABINET POINT OF CONNECTION TO THE EXHAUST DUCT SYSTEM PER DIVISION 23.
18. WHERE FUME HOOD OCCURS ADJACENT TO UNDER COUNTER CORROSIVE STORAGE CABINETS, ROUTE VENT PIPE (IN PIPE CHASE) TO FUME HOOD AND EXTEND 4" ABOVE FUME HOOD WORK SURFACE BEHIND BAFFLE.
19. LOCATION OF EQUIPMENT, SUCH AS FUME HOODS, BRACES OR ANY OTHER ITEMS THAT MAY INTERFERE WITH LIGHTING, STRUCTURAL OR MECHANICAL SYSTEMS, SHALL BE CAREFULLY COORDINATED. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
20. UNLESS OTHERWISE NOTED, ALL MISCELLANEOUS CHANNELS, BRACKETS AND FITTINGS INDICATED ON ALL LABORATORY FURNISHINGS DRAWINGS SHALL BE SUPPLIED, INSTALLED AND PAINTED UNDER DIVISION 11.
21. CONTRACTOR SHALL EXAMINE ALL LABORATORY FURNISHINGS PLANS AND COORDINATE WITH REFLECTED CEILING PLANS FOR PROPER CEILING HEIGHTS & PIPE DROP ENCLOSURE HEIGHTS AND LOCATIONS.
22. ALL BULLETIN BOARDS, MARKER BOARDS, CHALKBOARDS, PROJECTION SCREENS, COAT RACKS AND FIRE EXTINGUISHERS ARE INDICATED ON THE "LF" DRAWINGS FOR COORDINATION ONLY.
23. SERVICE FITTINGS SHOWN ON THE "LF" PLAN DRAWINGS ARE FOR LOCATION ONLY. REFER TO DETAILS AND SPECIFICATIONS FOR ACTUAL FITTINGS.
24. ELECTRICAL DEVICES SHALL BE PROVIDED UNDER DIVISION 26. ELECTRICAL DEVICES SHOWN ON THE "LF" DRAWINGS ARE FOR THE LOCATION OF CASEWORK CUTOUTS. DEVICES SHOWN AT FUME HOODS SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER.

LABORATORY SYMBOLS LEGEND

	SYMBOL LEGEND	DESCRIPTION	DETAIL
1		DRYING RACK	1 F10.17
2		ADJUSTABLE WALL SHELVES (2 TIER U.O.N.)	2 F10.17
3		INDUSTRIAL SHELVING UNIT	4 F10.17
4		SAFETY SHOWER WITH EYEWASH UNIT	5 F10.17
5		WATER PURIFIER - OWNER FURNISHED, OWNER INSTALLED	
6		MULTI-MEDIA PROJECTOR & SCREEN (CEILING MOUNT) - SHOWN FOR COORDINATION ONLY - REFER TO ARCHITECTURAL DRAWINGS	
7		MARKER BOARD (SEE ARCHITECTURAL DOCUMENTS, SHOWN FOR COORDINATION ONLY)	
8*		EQUIPMENT CEILING EXHAUST - SEE EXHAUST SCHEDULE	
		WALL CABINET - SEE CASEWORK MENU	
		TALL STORAGE CABINET - SEE CASEWORK MENU	
		LEG POST UNDER BENCH/TABLE TOP	
		CHEMICAL FUME HOOD - SEE EXHAUST SCHEDULE	
		ADA CHEMICAL FUME HOOD - SEE EXHAUST SCHEDULE	
		OWNER FURNISHED, OWNER INSTALLED EQUIPMENT	
		EPOXY RESIN SINK - SEE SINK SCHEDULE	
		CUP SINK - SEE SINK SCHEDULE	
		ADA COMPLIANT AREA	
		FLOOR SINK (SHOWN FOR COORDINATION ONLY)	

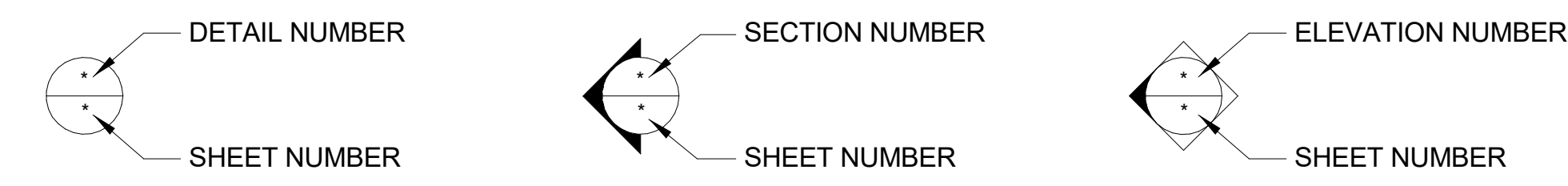
LABORATORY BENCHTOP SCHEDULE

E EPOXY RESIN BENCHTOP

+30", +34" & +36" INDICATES BENCHTOP HEIGHT ABOVE FINISHED FLOOR

NOTE:
FOR BENCHTOP TRANSITION HEIGHT REFER TO DETAILS: 5
F10.17

DETAIL SYMBOLS LEGEND



ELECTRICAL SYMBOLS (SHOWN FOR CUT-OUTS)

- 120V, 1PH, 20A SINGLE RECEPTACLE/SWITCH
- 120V, 1PH, 20A DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- PEDESTAL BOX
- INSTRUMENT GROUND

TYPICAL ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS SHOWN ARE USED. REFER TO FLOOR PLANS FOR ACTUAL ABBREVIATION TYPES.)

LABORATORY SERVICE ABBREVIATIONS

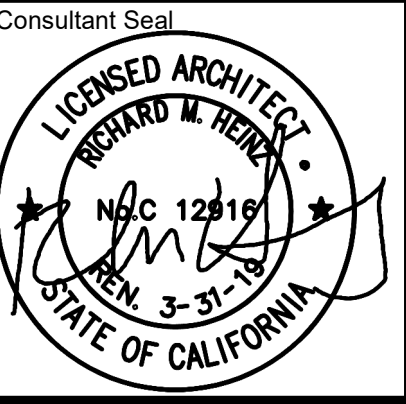
ADA	AMERICAN DISABILITIES ACT	CW	POTABLE COLD WATER
A.F.F.	ABOVE FINISHED FLOOR	DH	DRENCH HOSE
ARCH	ARCHITECTURAL DOCUMENTS	EW	EYEWASH
CFM	CUBIC FEET/MINUTE	HW	POTABLE HOT WATER
CENT	CENTRIFUGE	LA	LABORATORY AIR
CLG.	CEILING	LG	LABORATORY GAS
CLR.	CLEARANCE	LV	LABORATORY VACUUM
DIA	DIAMETER	SS	SAFETY SHOWER
DIV.	DIVISION	__(VB)	SERVICE VALVE BOX - PROVIDED UNDER DIV. 22
EQUIP	EQUIPMENT		
FZR	FREEZER		
GA.	GAUGE		
G.C.	GENERAL CONTRACTOR		
G.W.	GLASSWARE WASHER		
H.D.	HEAVY DUTY		
INC	INCUBATOR		
MAX.	MAXIMUM		
MIN.	MINIMUM		
MTD.	MOUNTED		
N.T.S.	NOT TO SCALE		
O.C.	ON CENTER		
OFOI	OWNER FURNISHED, OWNER INSTALLED		
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED		
O.H.	OVERHEAD		
OHSC	OVERHEAD SERVICE CARRIER		
PH	PHASE		
REF	REFRIGERATOR		
SIM.	SIMILAR		
SPEC	SPECIFICATIONS		
ST.STL.	STAINLESS STEEL		
TEMP	TEMPERATURE		
TYP.	TYPICAL		
UC	UNDER COUNTER		
U.O.N.	UNLESS OTHERWISE NOTED		
WP	WEATHERPROOF		

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Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS____ FLS____ SSS____
DATE _____

Project Title

Palomar College

Palomar North Education Center - Interim Village

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
LABORATORY FURNISHINGS
GENERAL NOTES

Architect's Seal	Designed: MR	Project No. 5015019
	Drawn: EB	Scale: 1/4" = 1'-0"
	QAQC ME R	Drawing No. LF0.11
	Date: 10/13/2017	

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EXHAUST EQUIPMENT SCHEDULES

CHEMICAL FUME HOODS

DRAWING REFERENCE	HOOD SIZE AND TYPE	TYPE OF SASH	TYPE OF SILL	NUMBER OF VERTICAL SASHES	NOMINAL VERTICAL SASH HEIGHT	HORIZONTAL SASH CONFIGURATION		DESIGN OPERATING CONDITIONS			MAXIMUM OPERATING CONDITIONS			MINIMUM VAV AIR FLOW (NOTE 1)	MAX HOOD STATIC PRESSURE DROP	EXHAUST CONNECTION BY MECHANICAL (NOTE 2)	REMARKS
					INCH	NUMBER OF SASHES	NUMBER OF TRACKS	SASH OPENING	FACE VELOCITY	AIRFLOW	SASH OPENING	FACE VELOCITY	AIRFLOW				
								INCH	FPM	CFM	INCH	FPM	CFM	CFM		INCH OF WATER	
6' ACFH	6' ADA CHEMICAL FUME HOOD	VERTICAL	AIRFOIL	1	30	-	-	18	100	800	28.5	100	1,300	300	0.25	12	
8' CFH	8' CHEMICAL FUME HOOD	VERTICAL	AIRFOIL	2	30	-	-	18	100	1,100	28.5	100	1,750	400	0.25	12 (QTY/2)	
8' ACFH	8' ADA CHEMICAL FUME HOOD	VERTICAL	AIRFOIL	2	30	-	-	18	100	1,100	28.5	100	1,750	400	0.25	12 (QTY/2)	

- NOTES:
- MINIMUM VARIABLE AIR VOLUME (VAV) EXHAUST AIRFLOW CORRESPONDS TO 25" DEEP WORK SURFACE. FOR EXTENDED DEPTHS, APPLY AIRFLOW CORRECTION PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE EXHAUST DUCT TRANSITION PIECE TO TRANSITION FROM FUME HOOD COLLAR SIZE TO SCHEDULED EXHAUST CONNECTION SIZE.

OTHER EXHAUST EQUIPMENT

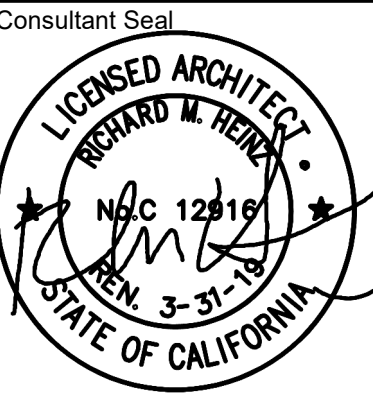
DRAWING REFERENCE	EQUIPMENT	EXHAUST AIR FLOW	STATIC PRESSURE	EXHAUST DUCT CONNECTION SIZE	REMARKS
		CFM	INCH OF WATER	INCH	
TCS	TALL CORROSIVE STORAGE CABINET	UNREGULATED	-	2	PROVIDE SCHEDULE 80 PVC/CPVC PIPE FOR EXHAUST DUCT PIPE.
8A TAV	TALL VENTED CABINET	UNREGULATED	-	2	
8B	BACKDRAFT EXHAUST - A (CHEM.)	250	0.5	6	BACK TO BACK DOWNDRAFT GRILLES. GRILLES ARE 15"W X 6"H OUTSIDE DIMENSION, INCLUDING 1/2" FLANGE
8C	BACKDRAFT EXHAUST - B (BIO.)	125	0.5	6	SINGLE SIDED DOWNDRAFT GRILLES. GRILLES ARE 25"W X 4"H OUTSIDE DIMENSION, INCLUDING 1/2" FLANGE

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Project Title

Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

**LABORATORY FURNISHINGS
SCHEDULES**

Architect's Seal	Designed: MR	Project No. 5015019
	Drawn: EB	Scale: 1/4" = 1'-0"
	QAQC ME R	Drawing No. LF0.12
	Date: 10/13/2017	

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LABORATORY SERVICE FITTING SCHEDULE

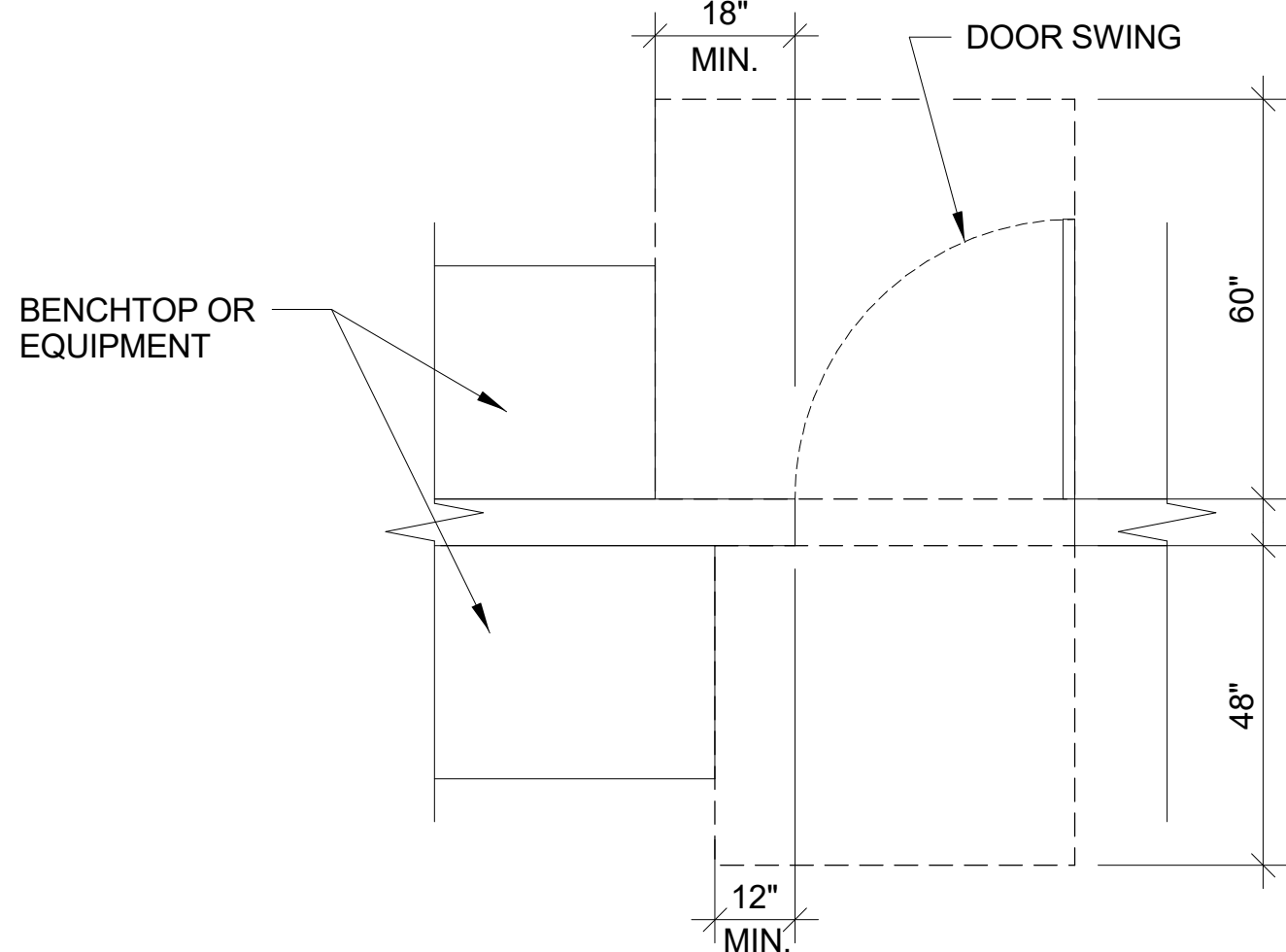
ABBREV.	FITTING TYPE	MOUNTING	NOTES	DETAIL
CW	COLD WATER	DECK	AT LABORATORY SINK	
		DECK (ADA)	AT LABORATORY SINK (PROVIDE WRIST BLADE HANDLE)	
		DECK (SPRAY)	AT LABORATORY SINK	
		DECK (ADA-SPRAY)	AT LABORATORY SINK (PROVIDE WRIST BLADE HANDLE)	
		WALL	AT WALL LOCATION AT +72"	
		HOOD	REMOTE	
HWCW	HOT WATER/ COLD WATER	DECK	AT LABORATORY SINK	
		DECK (ADA)	AT LABORATORY SINK (PROVIDE WRIST BLADE HANDLE)	
		DECK (ADA-SPRAY)	AT LABORATORY SINK (PROVIDE WRIST BLADE HANDLE)	
LA, LG & LV	LABORATORY GAS & LABORATORY VACUUM	DECK	LA(2), LG(2) & LV(2) (PROVIDE LEVER HANDLES AT LG ONLY)	
		PANEL (ADA)	LA, LG & LV (PROVIDE LEVER HANDLES)	
		HOOD	REMOTE - LG & LV (PROVIDE BALL VALVE LEVER HANDLES AT LG ONLY)	
		HOOD (ADA)	REMOTE - LG & LV (PROVIDE BALL VALVE LEVER HANDLES AT ADA HOODS)	
EW	EYEWASH UNIT	DECK	SWING DOWN EYEWASH - BARRIER FREE	
EW/DH	EYEWASH UNIT	DECK	AT LABORATORY SINK	
SS/EW	SAFETY SHOWER/ EYEWASH UNIT	WALL	BOWL AND SKIRT	

VALVES & VALVE BOXES BY DIV. 22

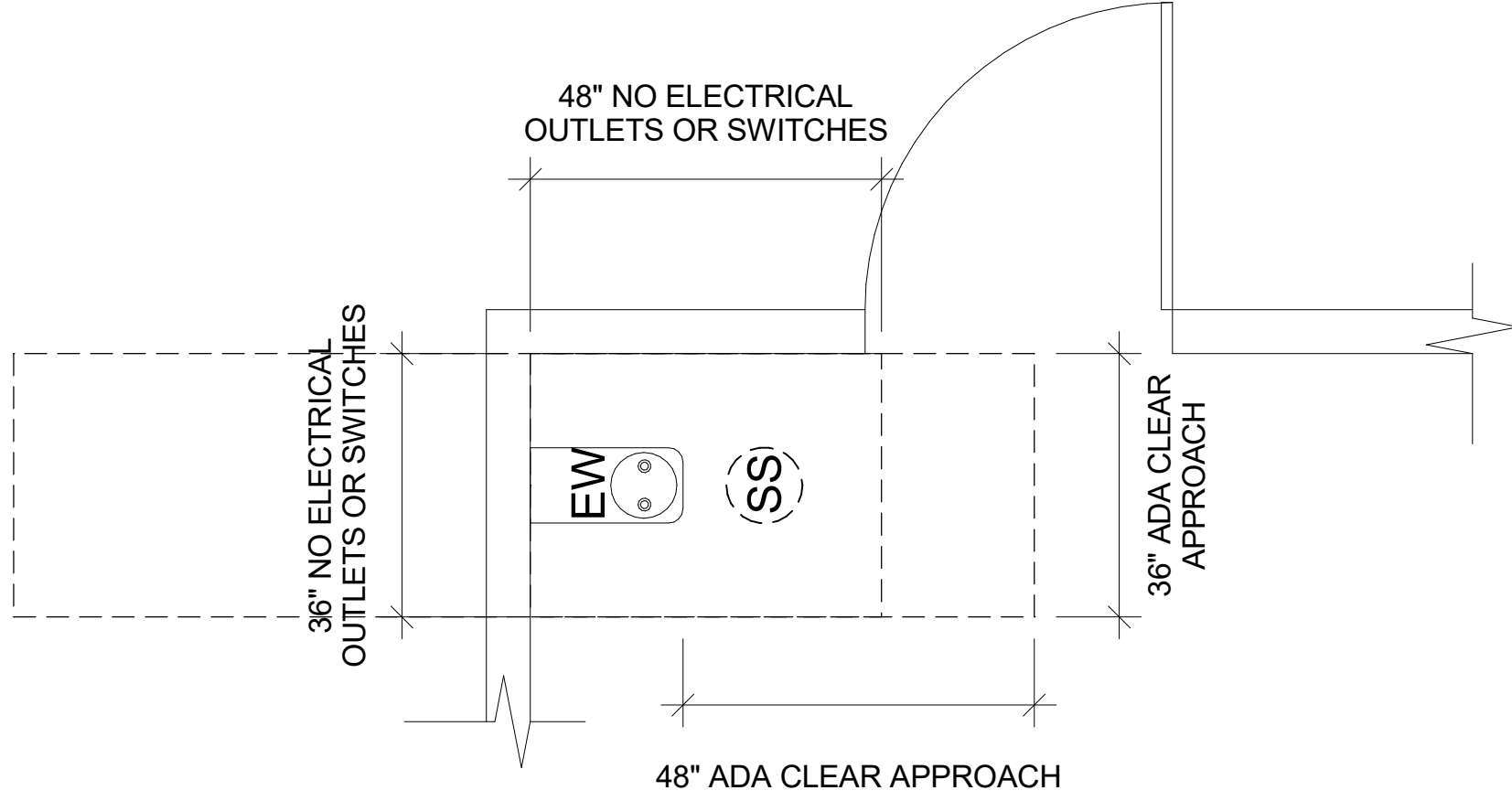
<u>VALVE BOX(VB)</u> CW	COLD WATER	WALL	VALVE BOX - BY DIV. 22 - AT +18" A.F.F. U.O.N., SEE PLANS
----------------------------	------------	------	---

- NOTES:
-
1. FOR FIXTURE SPACING REFER TO DETAILS:
2. SERVICE ABBREVIATION __ (VB) REFERS TO SERVICE VALVE BOX - PROVIDED UNDER DIVISION 22.

INTERIOR DOOR CLEARANCES (ADA COMPLIANT)



ELECTRICAL AND ADA APPROACH CLEARANCES AT SS/EW



LABORATORY SINK SCHEDULE

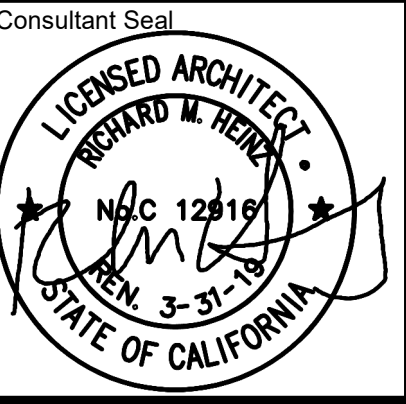
SINK NUMBER	DESCRIPTION	OUTLET	WIDTH x DEPTH x HEIGHT (INSIDE DIMENSIONS)	SINK OUTLET SIZE	REMARKS	DETAIL
SK1	EPOXY RESIN	CORNER	18" x 15" x 10"	1-1/2"	DROP-IN	
SK2	EPOXY RESIN	SIDE	28" x 15" x 12"	1-1/2"	DROP-IN	
SK3	EPOXY RESIN	CORNER	25" x 15" x 4.8"	1-1/2"	REQUIRES ADA FITTINGS	
CS1	EPOXY RESIN	CENTER	3" x 6"	1-1/2"	OVAL, TYPICAL @ FUME HOOD W/ RAISED LIP	

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Project Title
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35090 Horse Ranch Creek Road
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No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
LABORATORY FURNISHINGS
SCHEDULES

Architect's Seal 	Designed: MR Drawn: EB QAQC: ME R Date: 10/13/2017	Project No. 5015019 Scale: 1/4" = 1'-0" Drawing No. LF0.13
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D24 BASE CABINET TYPE
WIDTH (INCHES - TYPICAL)

A24L BASE CABINET TYPE
WIDTH
DOOR HINGE ON LEFT SIDE

A24R BASE CABINET TYPE
WIDTH
DOOR HINGE ON RIGHT SIDE

LD24 SITTING HEIGHT AT BASE CABINET & KO
BASE CABINET TYPE
WIDTH

KO24 KNEE OPENING
KNEE OPENING TYPE (SEE KNEE OPENINGS SECTION)
WIDTH
KOX24 (X = A)

WA36 WALL-HUNG CABINET
WALL CABINET DOOR TYPE
WIDTH

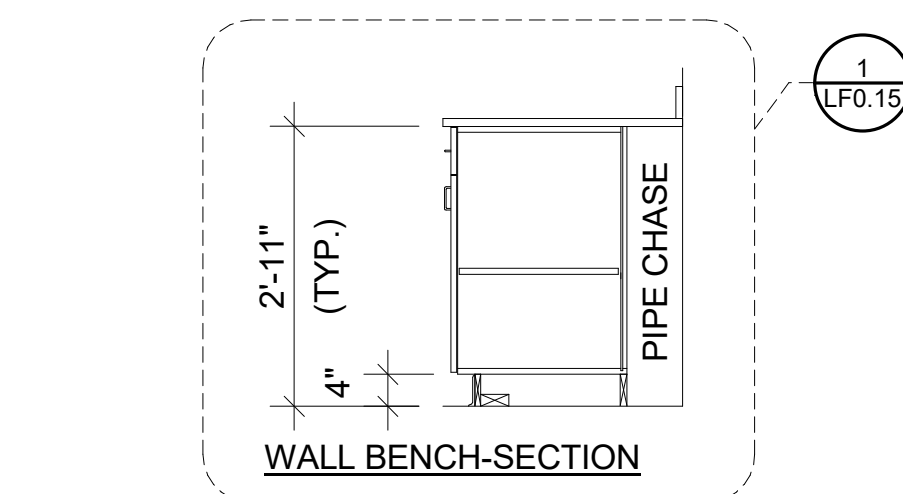
TC48 TALL STORAGE CABINET
TALL CABINET DOOR TYPE
WIDTH

TAV48 DESIGNATES VENTED
CABINET WITH 2"DIA CONNECTION

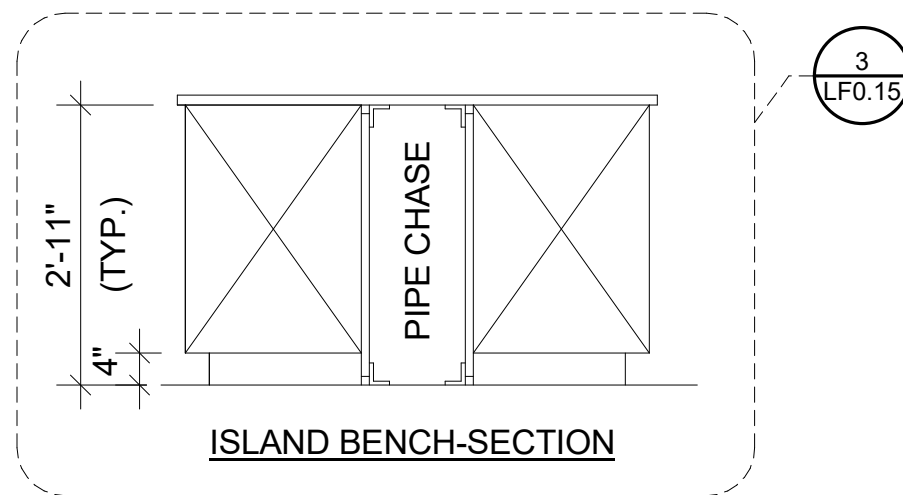
FP FILLER PANEL

* DESIGNATES KEY LOCKABLE CASEWORK

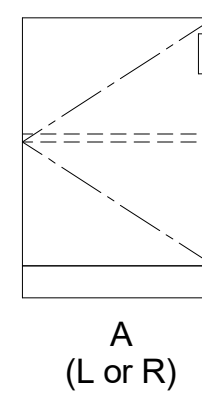
** DESIGNATES PADLOCK HASP



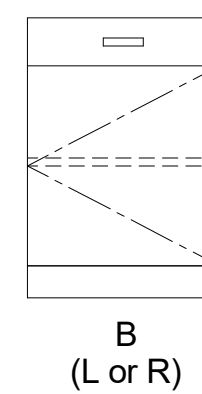
NOTE:
ALL SHELVES TO BE ADJUSTABLE U.O.N.



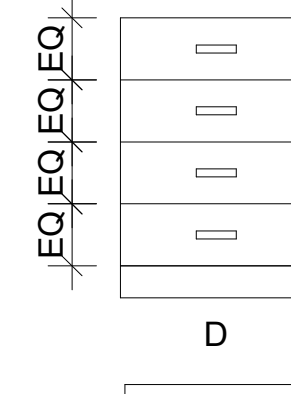
STANDING HEIGHT BASE CABINETS (+36)



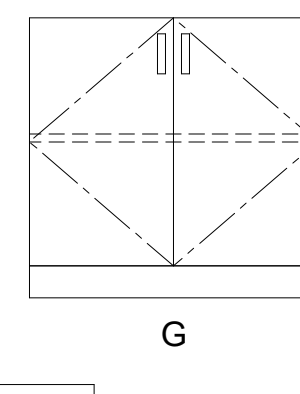
A
(L or R)



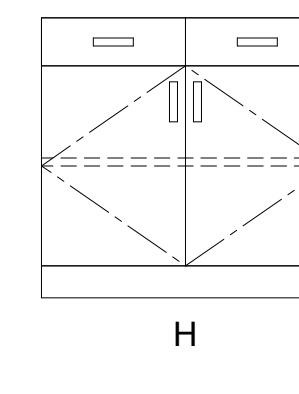
B
(L or R)



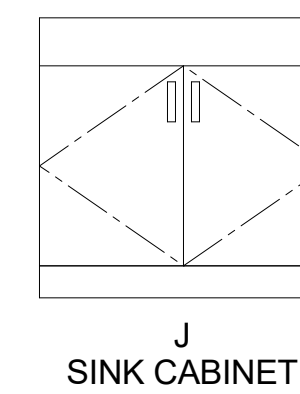
THIS CABINET TO BE
21" DEEP



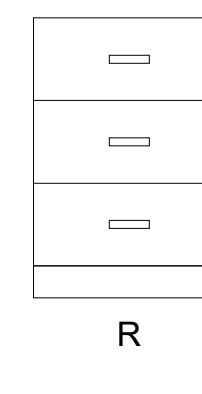
G



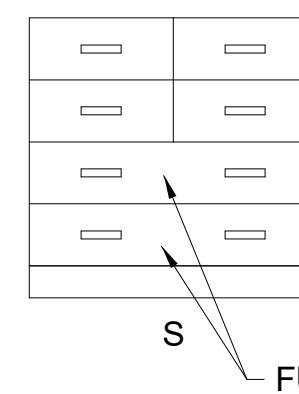
H



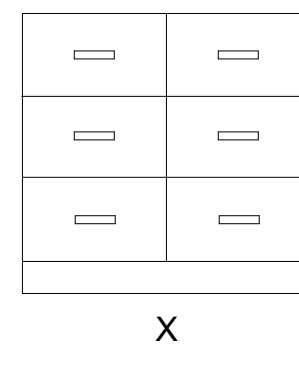
J
SINK CABINET



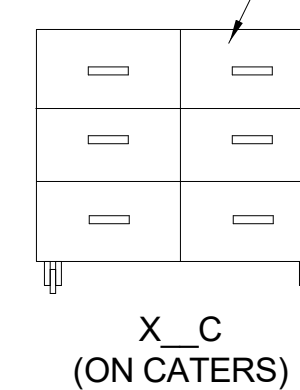
R



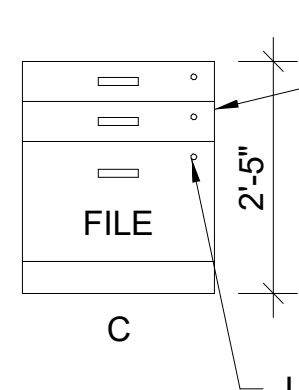
S
FULL-WIDTH
DRAWERS



X



X_C
(ON CATERERS)
COORDINATE
HEIGHT WITH KON



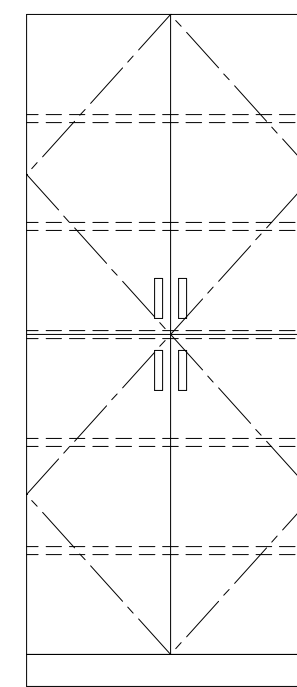
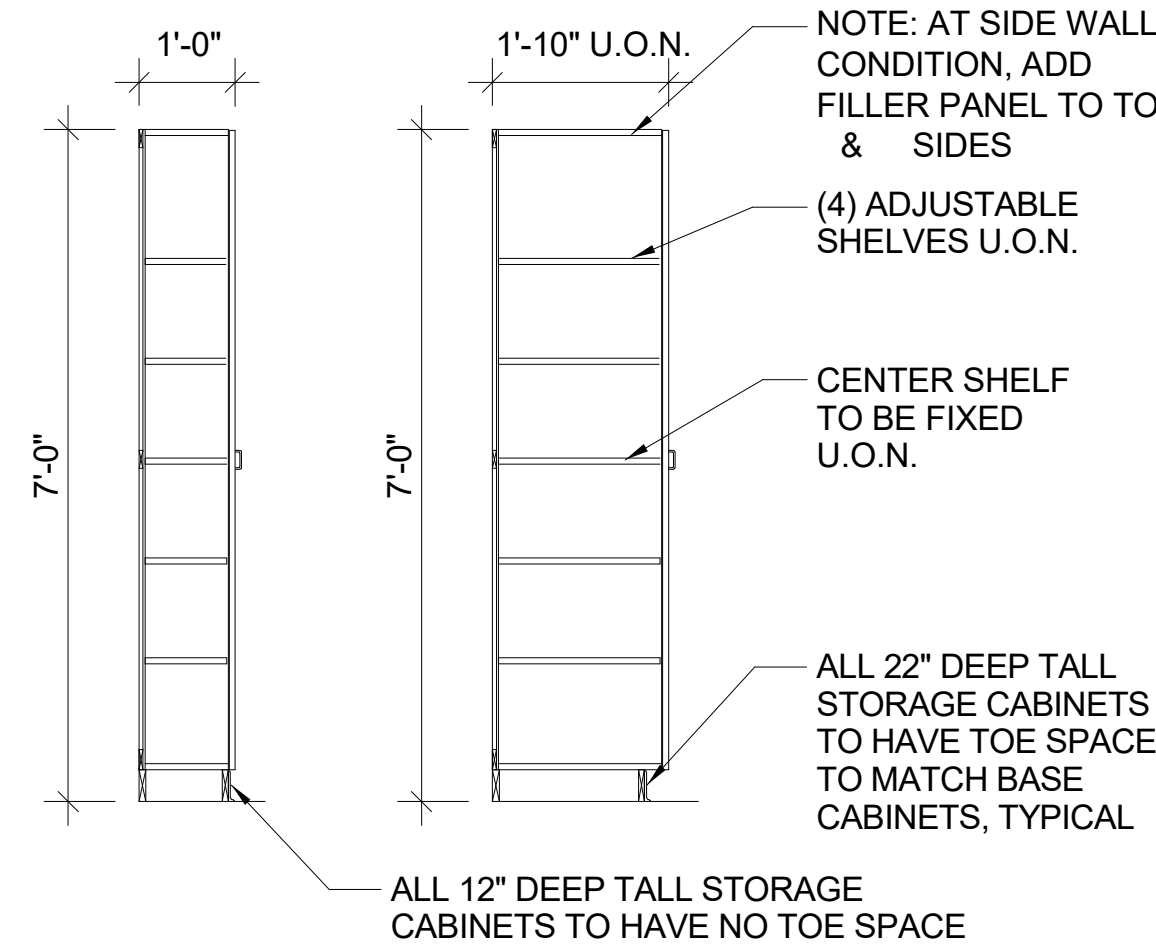
C



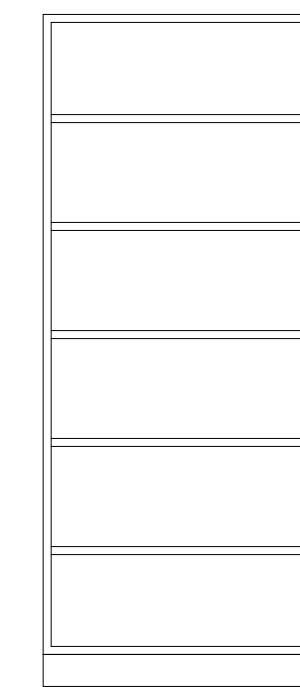
SITTING HIGH
CABINET

LOCKABLE DRAWERS

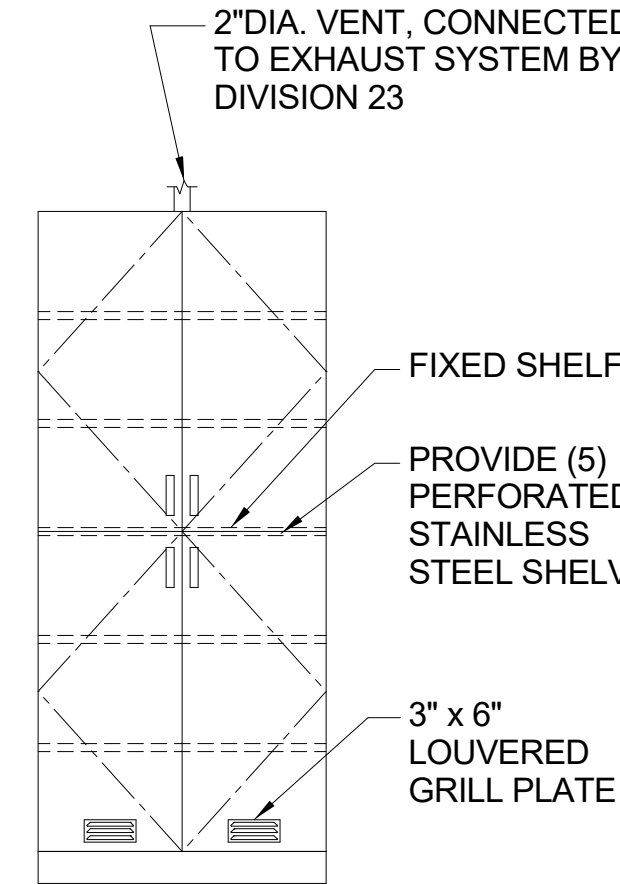
STANDING HEIGHT BASE CABINETS (PLASTIC LAMINATE - U.O.N.)



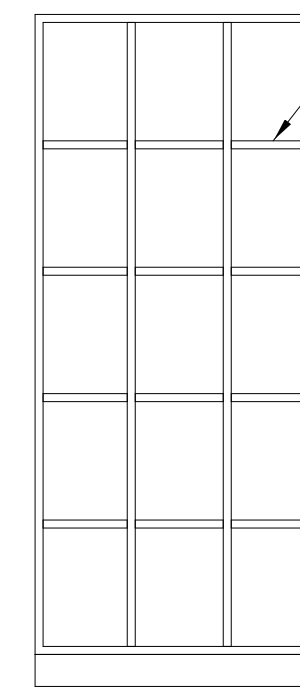
TA
HINGED SOLID
DOORS



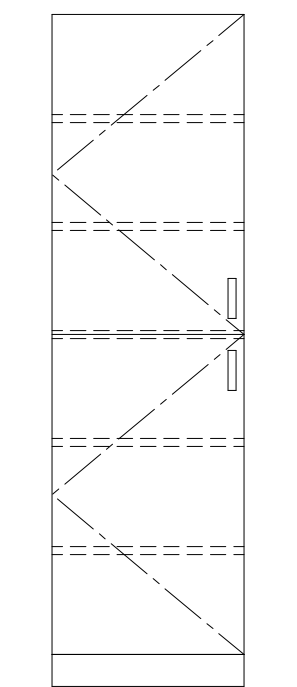
TO
OPEN SHELVING



TAV
HINGED SOLID
DOORS W/VENT



BPC
BACKPACK
CUBBIES

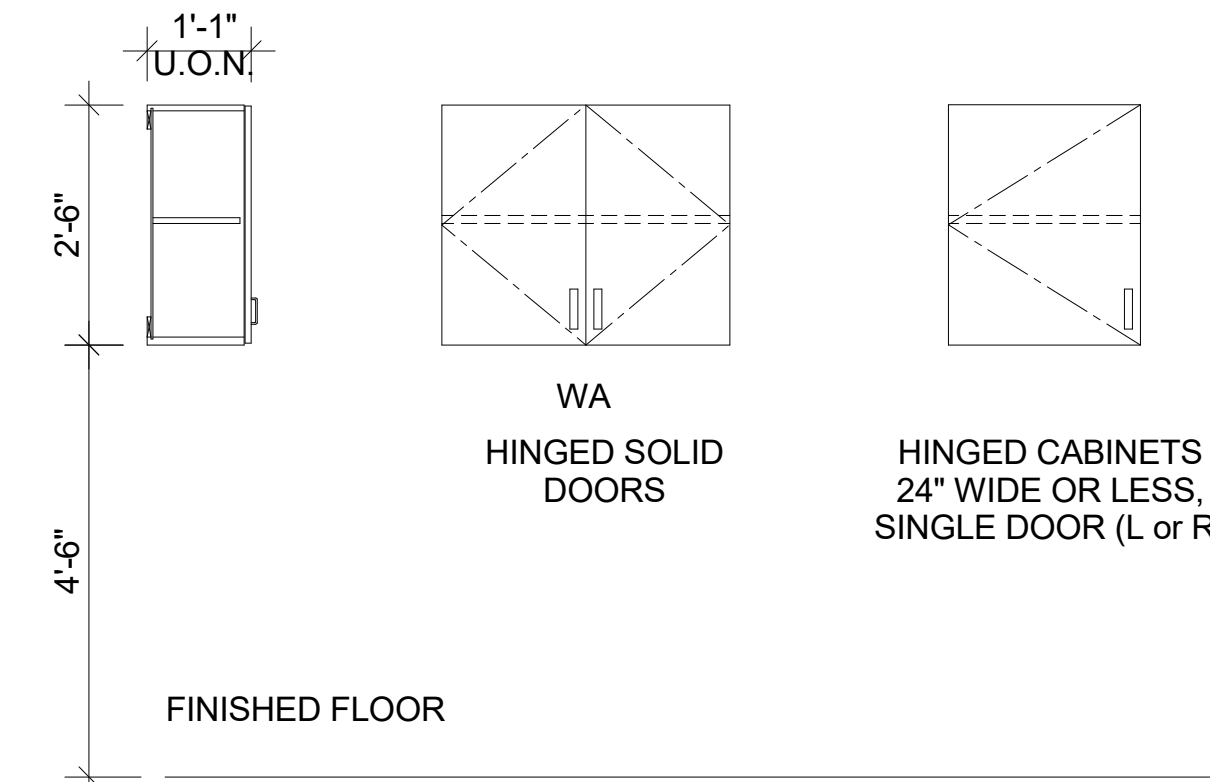


ALL SHELVES TO BE
ADJUSTABLE

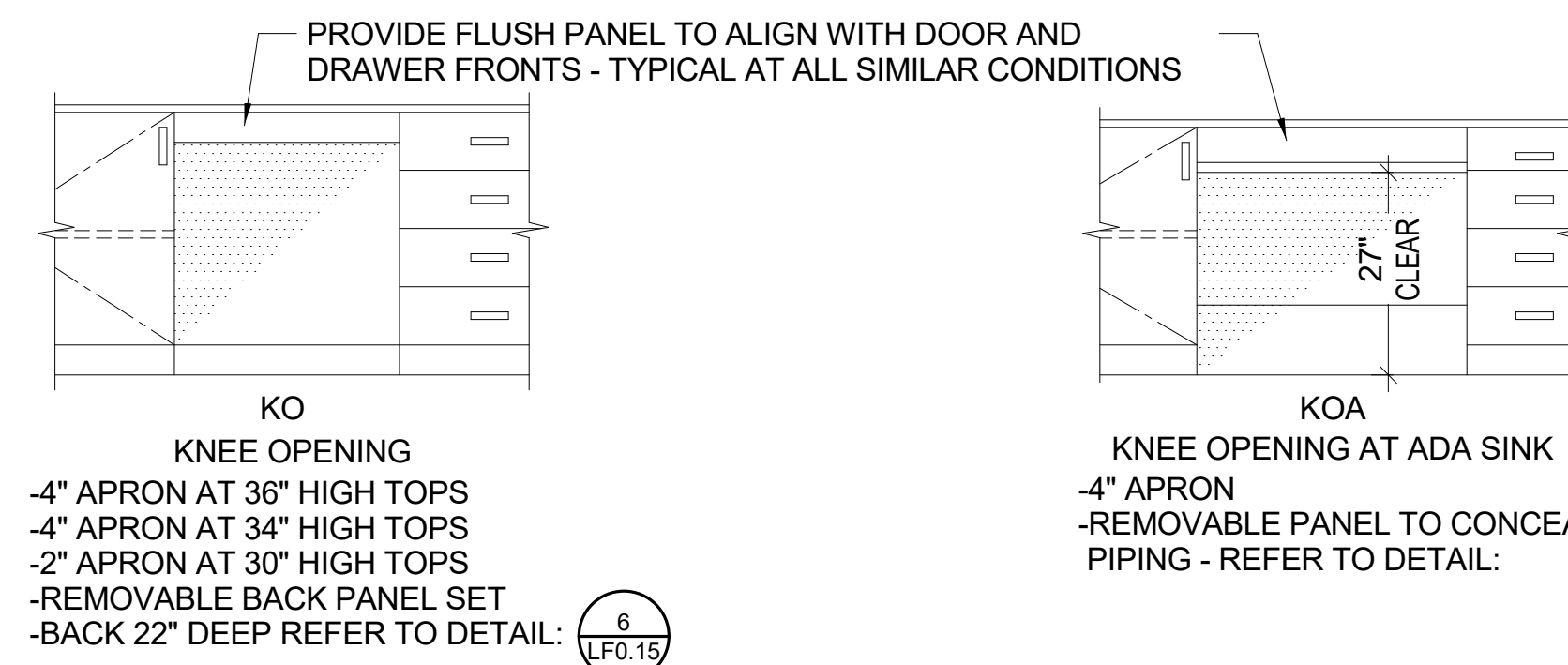
AT HINGED CABINETS
<24" WIDE, PROVIDE HINGE
ON (1) SIDE (L or R)

CASEWORK LEGEND & NOTES

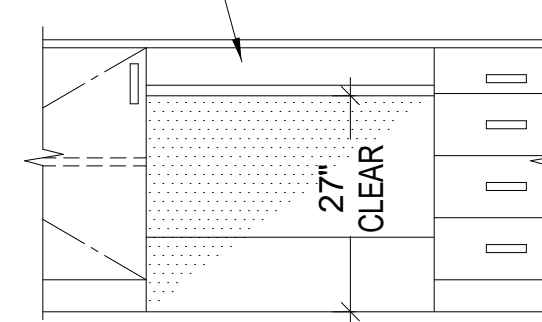
TALL STORAGE CABINETS (PLASTIC LAMINATE - U.O.N.)



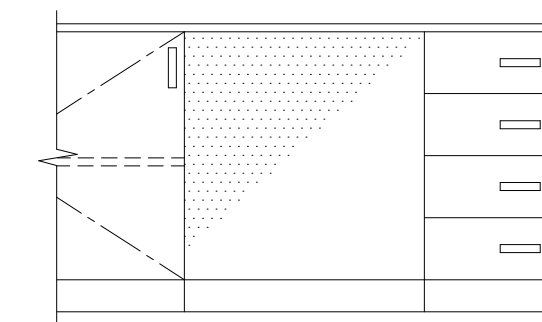
WALL CABINETS (PLASTIC LAMINATE - U.O.N.)



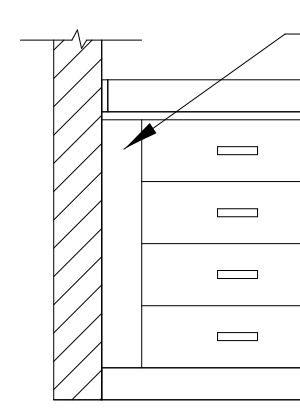
KO
KNEE OPENING
-4" APRON AT 36" HIGH TOPS
-4" APRON AT 34" HIGH TOPS
-2" APRON AT 30" HIGH TOPS
-REMOVABLE BACK PANEL SET
-BACK 22" DEEP REFER TO DETAIL: 6 LF0.15



KOA
KNEE OPENING AT ADA SINK
-4" APRON
-REMOVABLE PANEL TO CONCEAL
PIPING - REFER TO DETAIL: 4 LF0.15



KON
KNEE OPENING - NO APRON
-NO APRON
-REMOVABLE BACK PANEL SET
-BACK 22" DEEP REFER TO DETAIL: 6 LF0.15

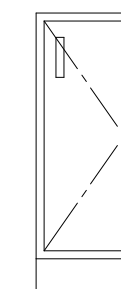


FP
FILLER PANEL

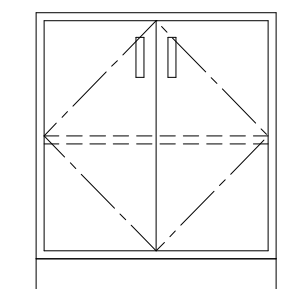
NOTE:
AT LOCATIONS WHERE KNEE OPENINGS
WIDTHS ARE NOT GIVEN ON PLANS, FIELD
VERIFY WALL TO WALL DIMENSIONS.

KNEE OPENINGS

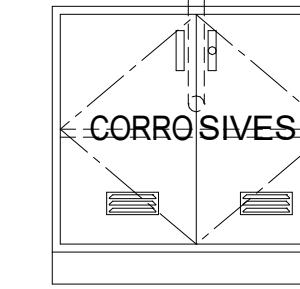
SPECIAL CABINETS (METAL - U.O.N.)



FH
FUME HOOD
CUPSINK
CABINET

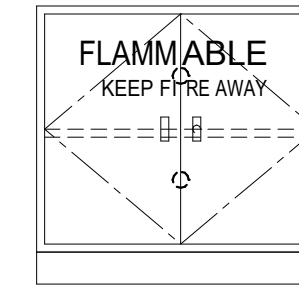


AT CABINETS
>24" WIDE, PROVIDE
DOUBLE DOORS



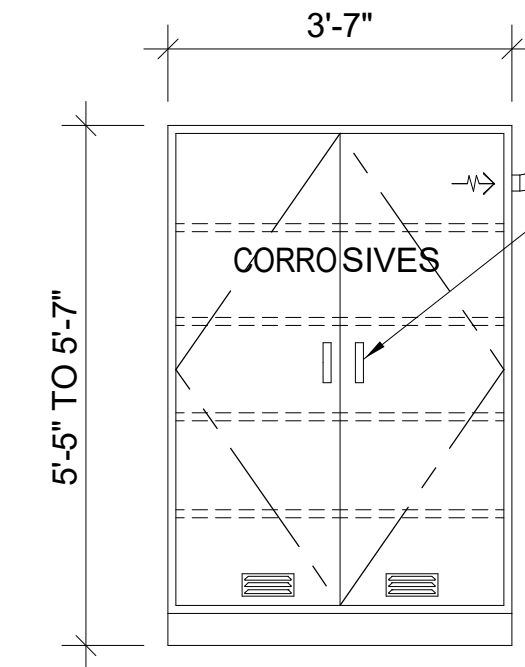
CS
CORROSIVE STORAGE
BASE CABINET

2"DIA. VENT
THROUGH BENCHTOP
BEHIND BAFFLE
(EXTEND 4" ABOVE
BENCHTOP); REFER
TO SPECIFICATIONS

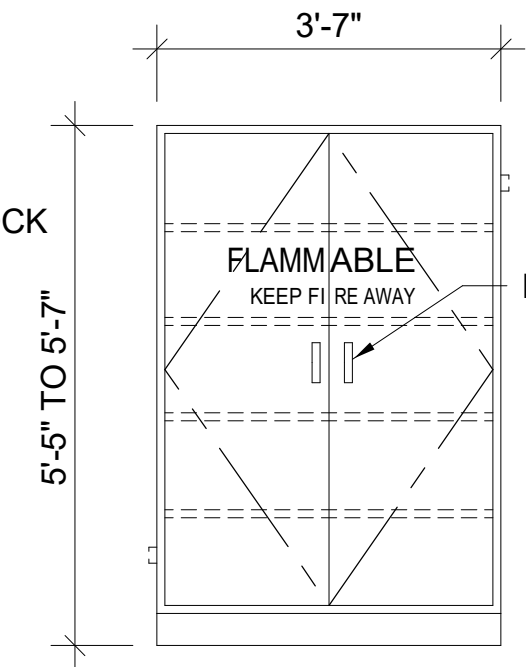


FS
FLAMMABLE STORAGE
BASE CABINET

2"DIA. PIPE
CONNECTED TO EXHAUST
SYSTEM UNDER DIVISION 23.



TCS43
18"d. CORROSIVE
STORAGE CABINET



TFS43
18"d. FLAMMABLE
STORAGE CABINET

HMC Architects

3546 Concourse Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

RFD

RESEARCH FACILITIES DESIGN
3865 Fifth Avenue, Suite 400
San Diego, California 92103
TEL 619 297 0159
FAX 619 294 4901



Project Title



Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

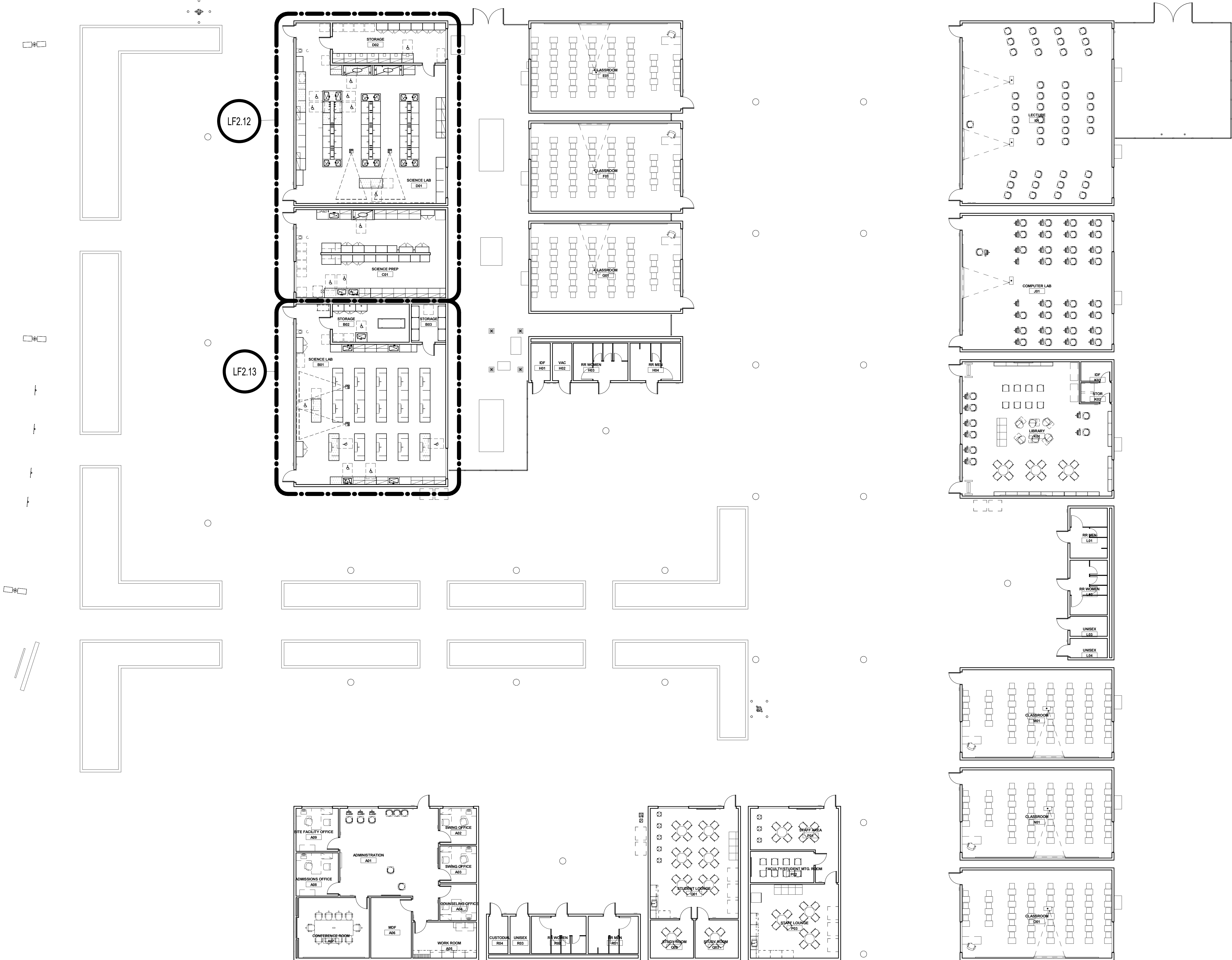
LABORATORY FURNISHINGS CASEWORK MENU



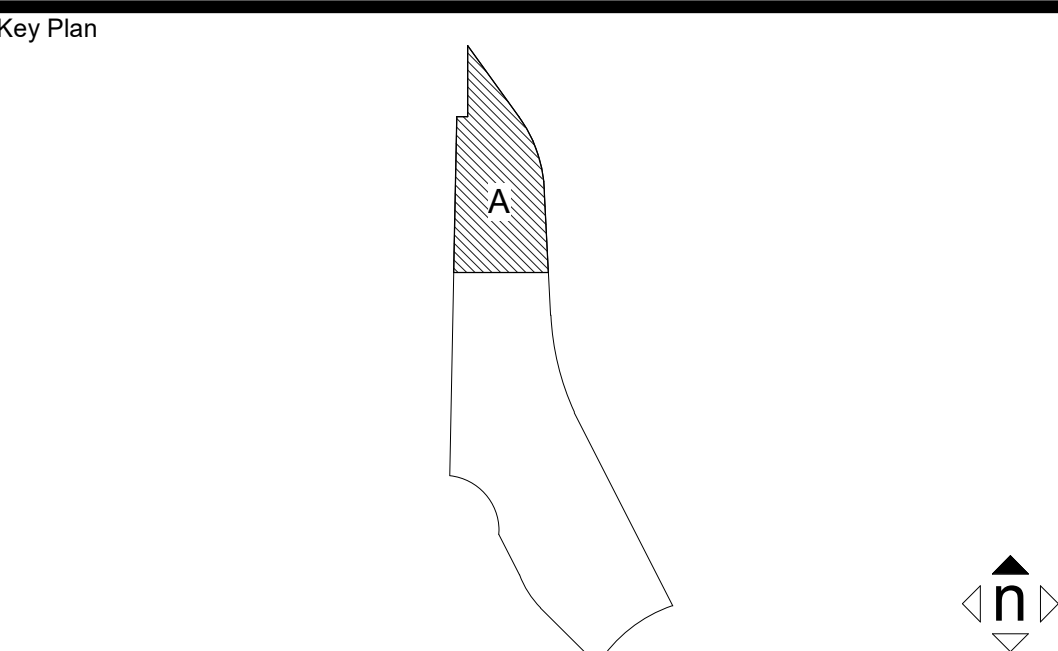
Designed: MR Project No. 5015019
Drawn: EB Scale: 1/2" = 1'-0"
QAQC ME R Drawing No.
Date: 10/13/2017 **LF0.14**

PLEASE RECYCLE

DSA SUBMITTAL



1 LABORATORY FURNISHINGS OVERALL PLAN
3/32" = 1'-0"



Consultant Seal: [Seal of HMC Architects]

Agency Approval: [Seal of the State Architect]

FILE NO. 37-C1

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS. FLS. SSS.

DATE

Project Title: Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road

Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title: LABORATORY FURNISHINGS OVERALL PLANS

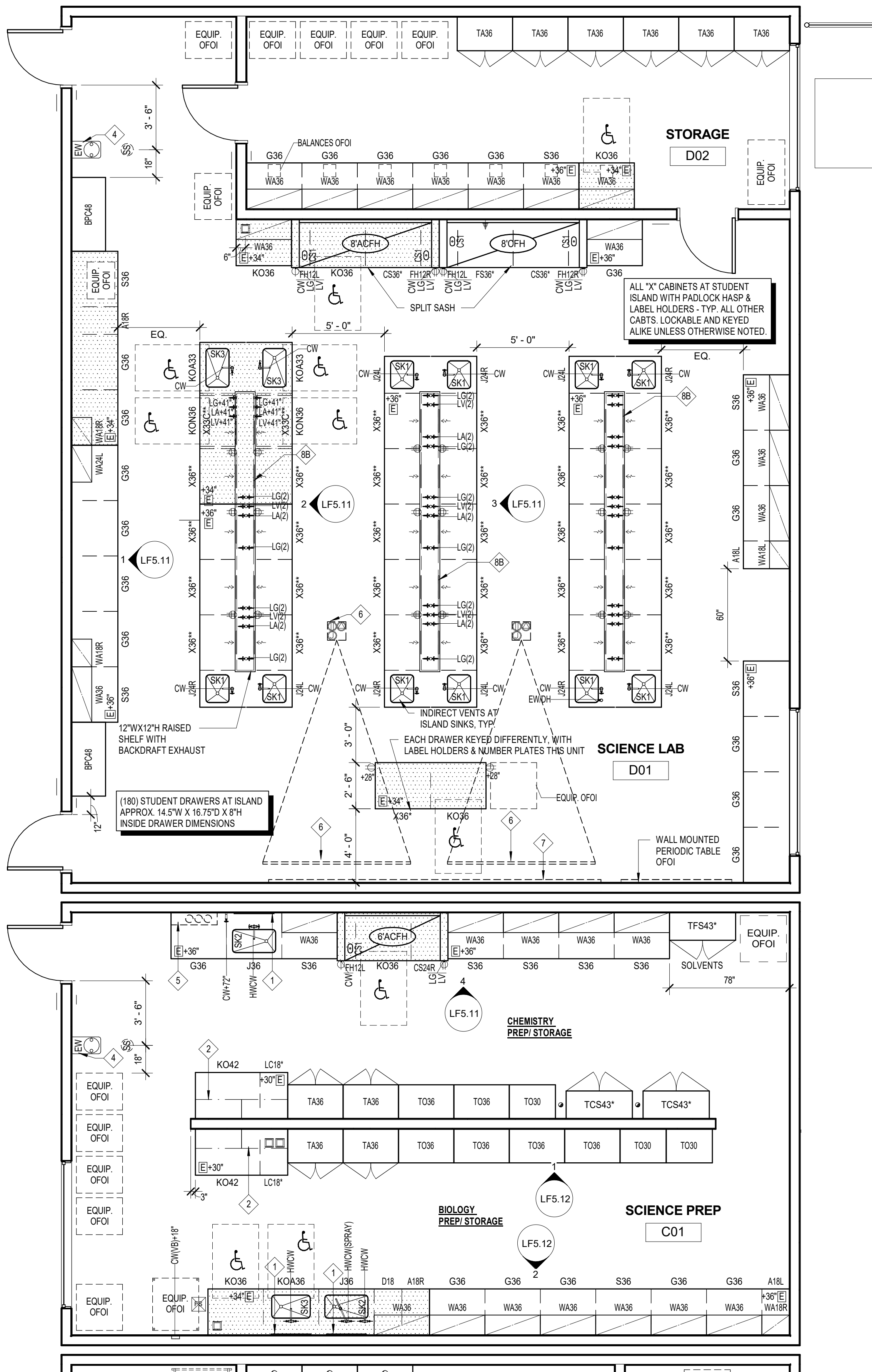
Architect's Seal: [Seal of HMC Architects]

Designed: MR Project No. 5015019

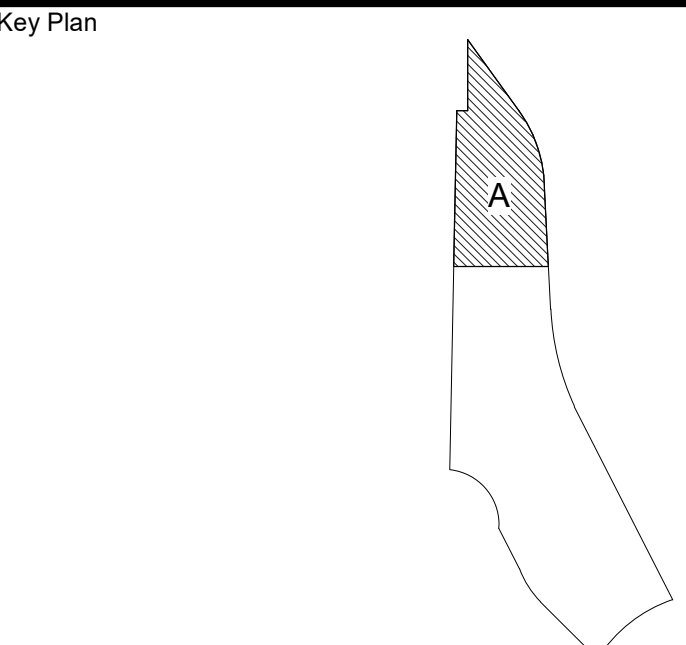
Drawn: EB Scale: 3/32" = 1'-0"

QAQC: ME R Drawing No. LF2.11

Date: 10/13/2017



1 CHEMISTRY LAB
1/4" = 1'-0"



Consultant Seal: [Seal of HMC Architects]

Agency Approval: [Seal of the State Architect]

FILE NO. 37-C1

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS. FLS. SSS.

DATE

Project Title: Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
**LABORATORY FURNISHINGS
CHEMISTRY LAB**

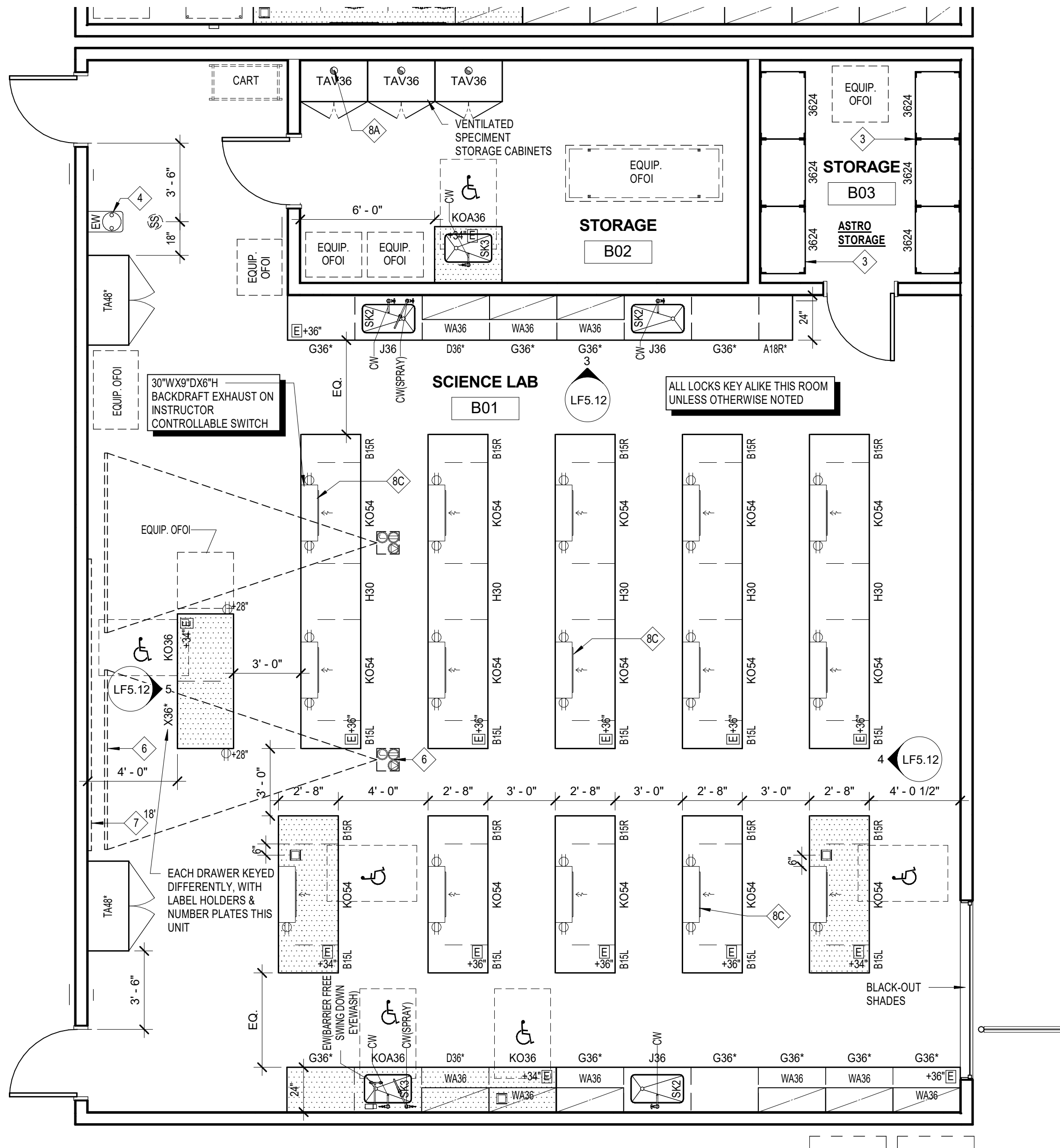
Architect's Seal: [Seal of HMC Architects]

Designed: MR Project No. 5015019

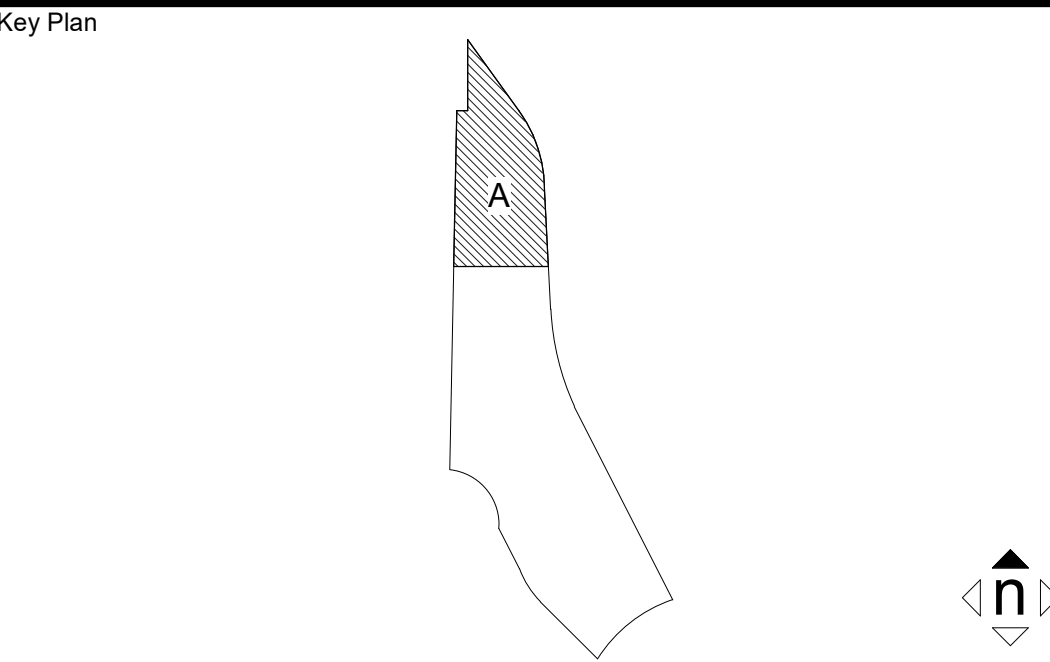
Drawn: EB Scale: 1/4" = 1'-0"

QAQC: ME R Drawing No. **LF2.12**

Date: 10/13/2017



1 BIOLOGY LAB
1/4" = 1'-0"



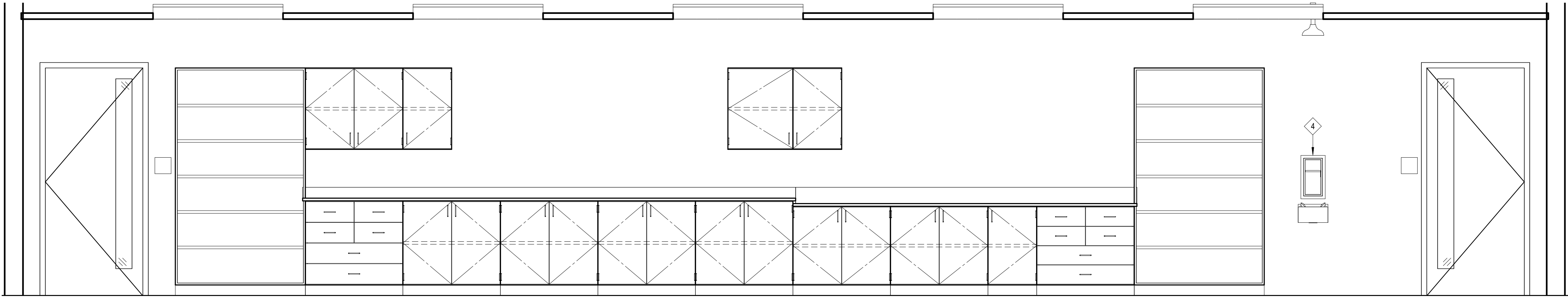
Consultant Seal	Agency Approval	FILE NO. 37-C1

Project Title	Palomar North Education Center - Interim Village
	Palomar College
	35090 Horse Ranch Creek Road Fallbrook, CA 92028

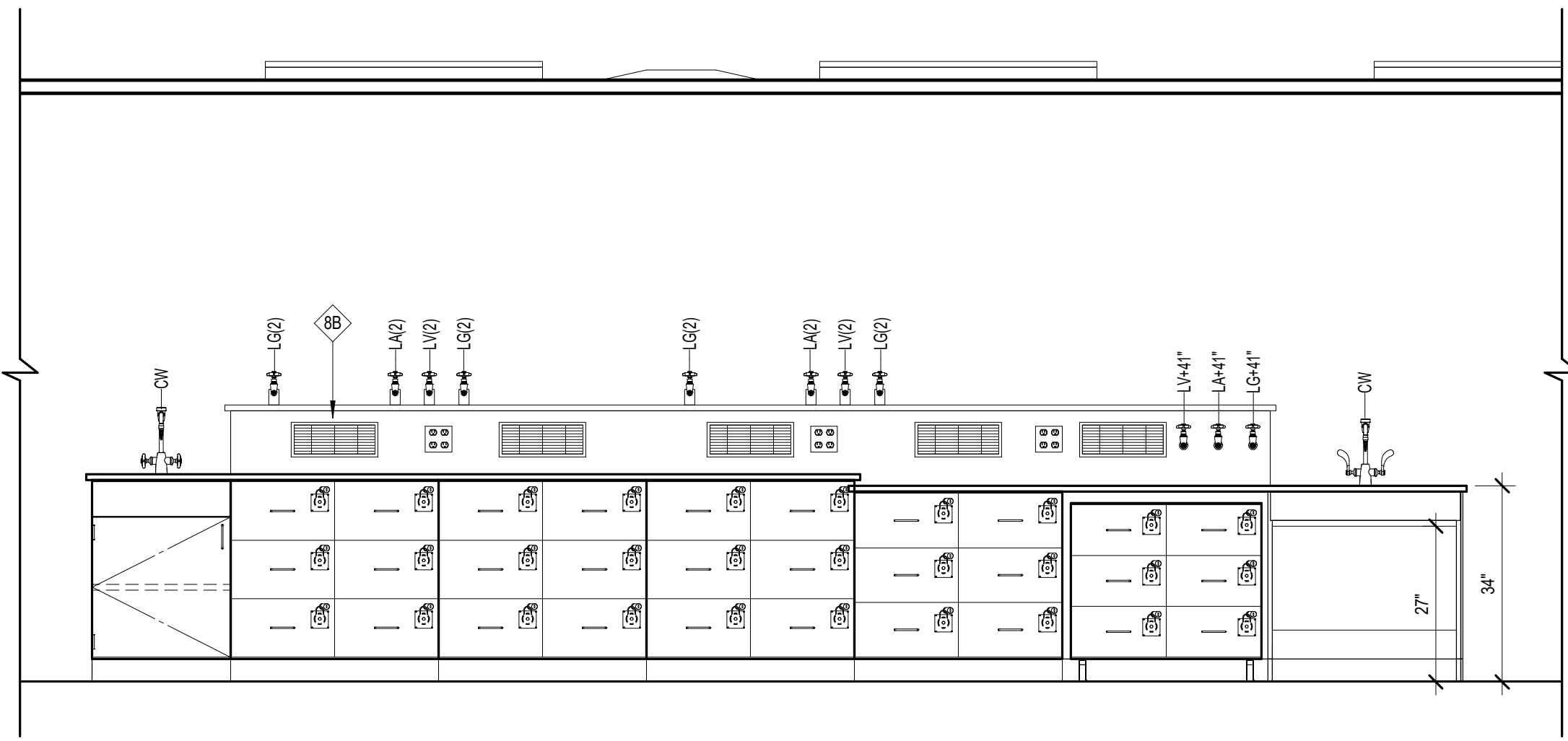
No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
LABORATORY FURNISHINGS BIOLOGY LAB

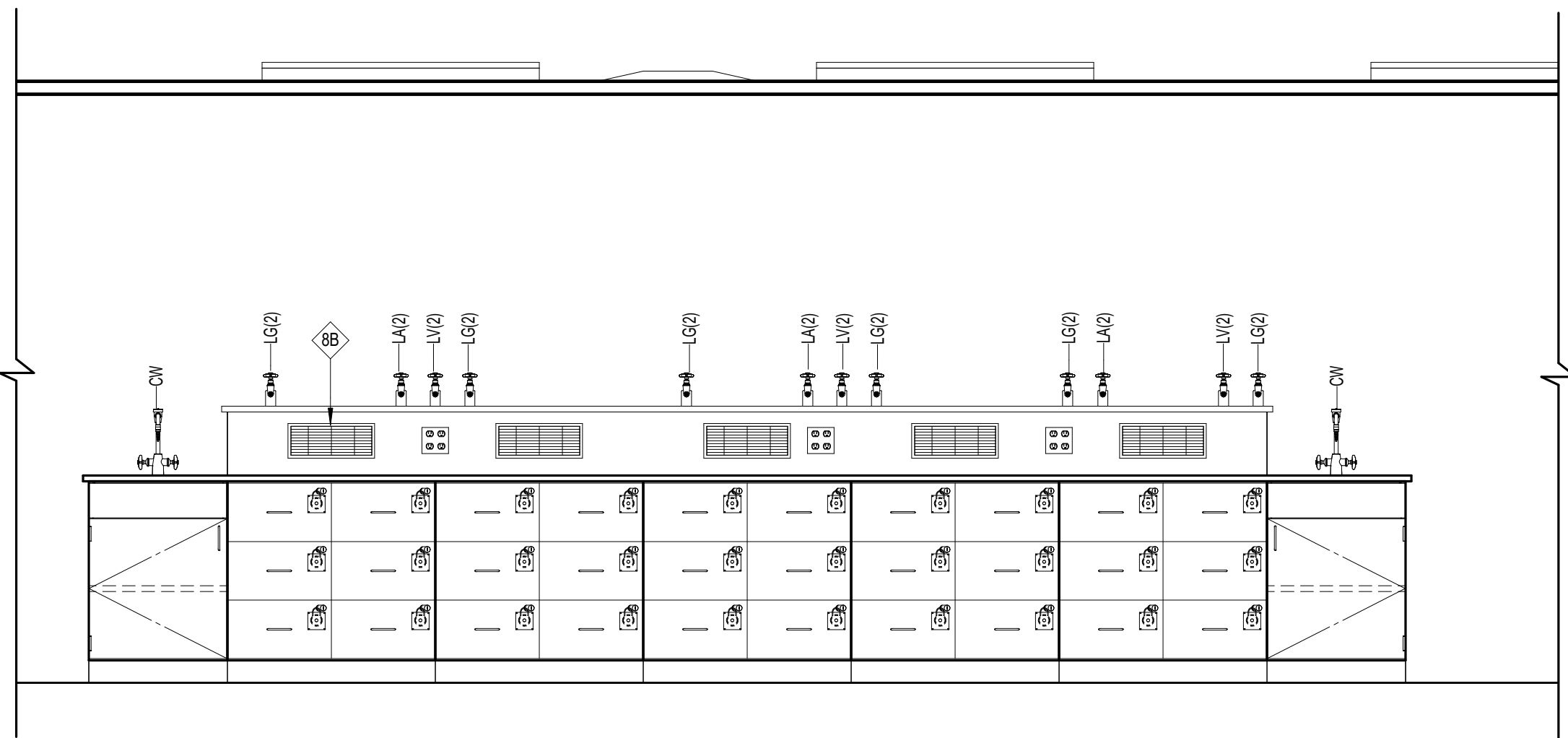
Architect's Seal	Designed: MR	Project No. 5015019
	Drawn: EB	Scale: 1/4" = 1'-0"
	QAQC ME R	Drawing No. LF2.13
	Date: 10/13/2017	



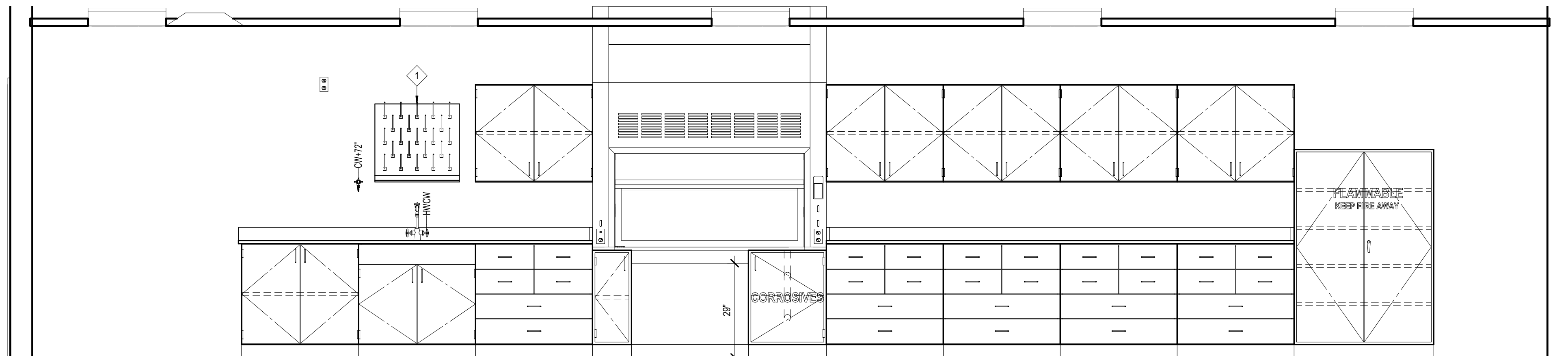
① SCIENCE LAB D01 - EAST WALL
1/2" = 1'-0"



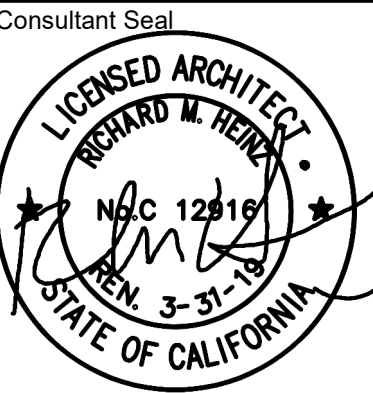
② SCIENCE LAB D01 - EAST ISLAND BENCH ADA
1/2" = 1'-0"



③ SCIENCE LAB D01 - EAST ISLAND BENCH
1/2" = 1'-0"



④ SCIENCE PREP C01 - NORTH
1/2" = 1'-0"



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APPL. 04-116582
ACS____ FLS____ SSS____
DATE____

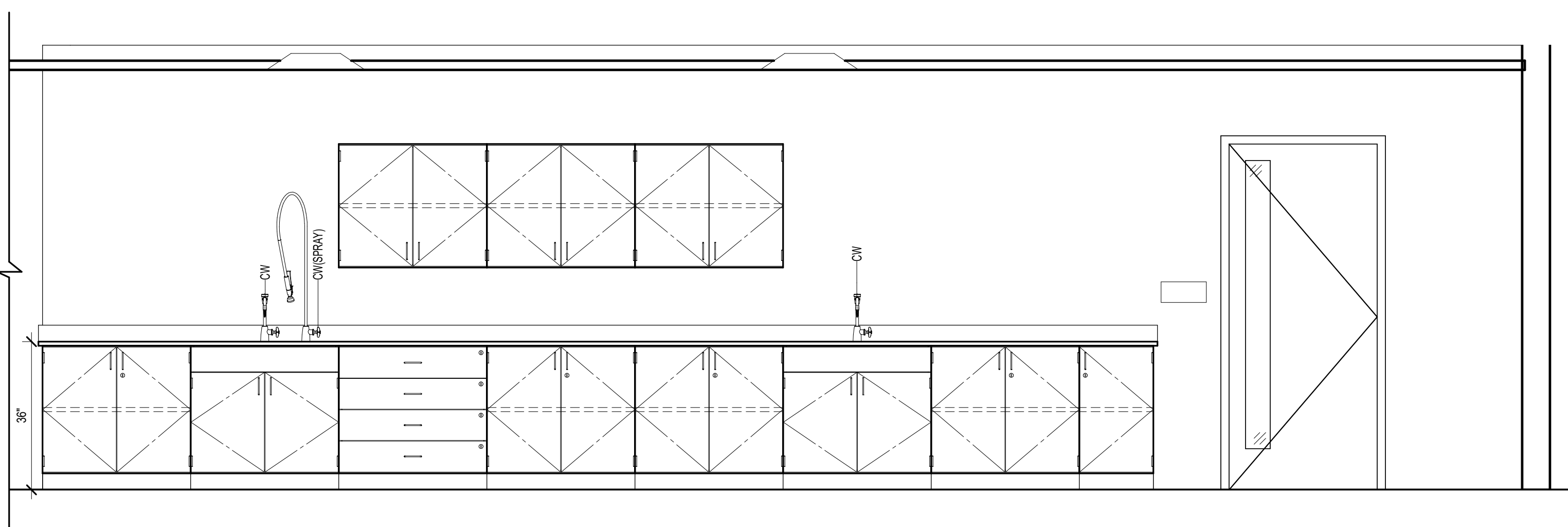
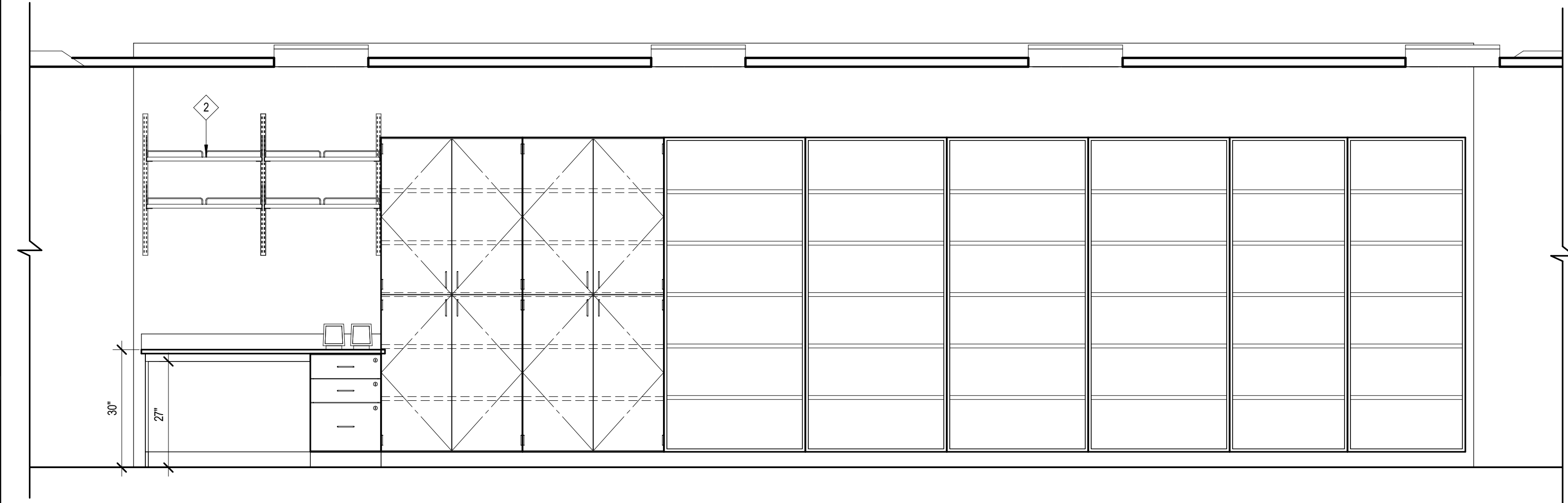
Project Title
Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
**LABORATORY FURNISHINGS
ELEVATIONS**

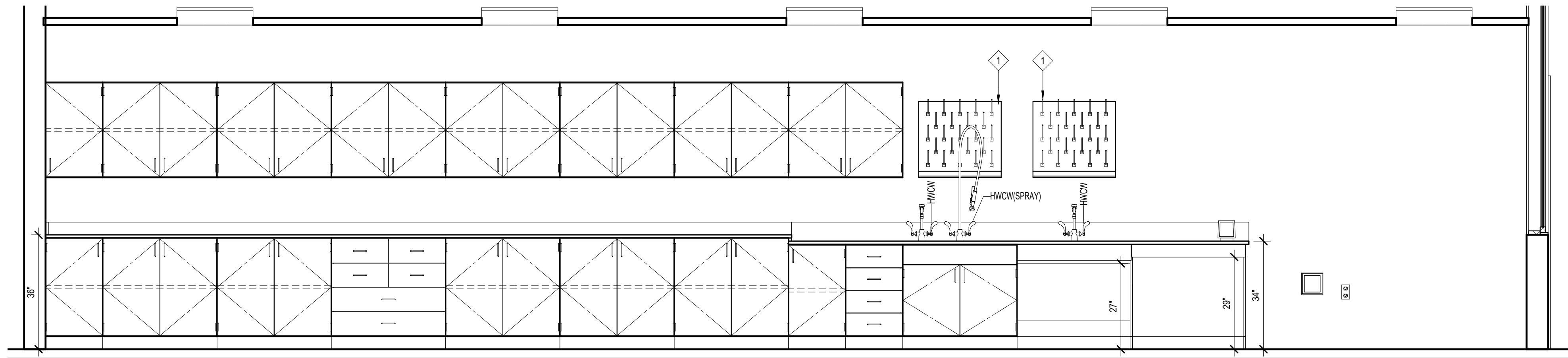


Designed: MR Project No. 5015019
Drawn: EB Scale: 1/2" = 1'-0"
QAQC ME R Drawing No. **LF5.11**
Date: 10/13/2017

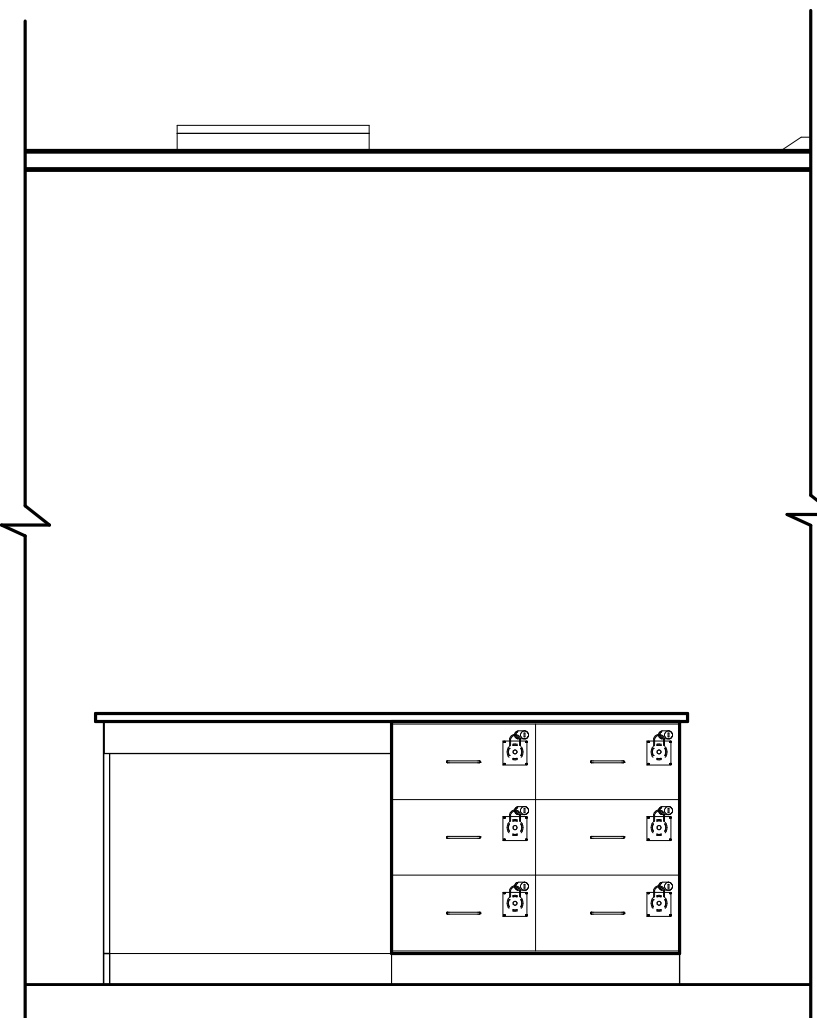
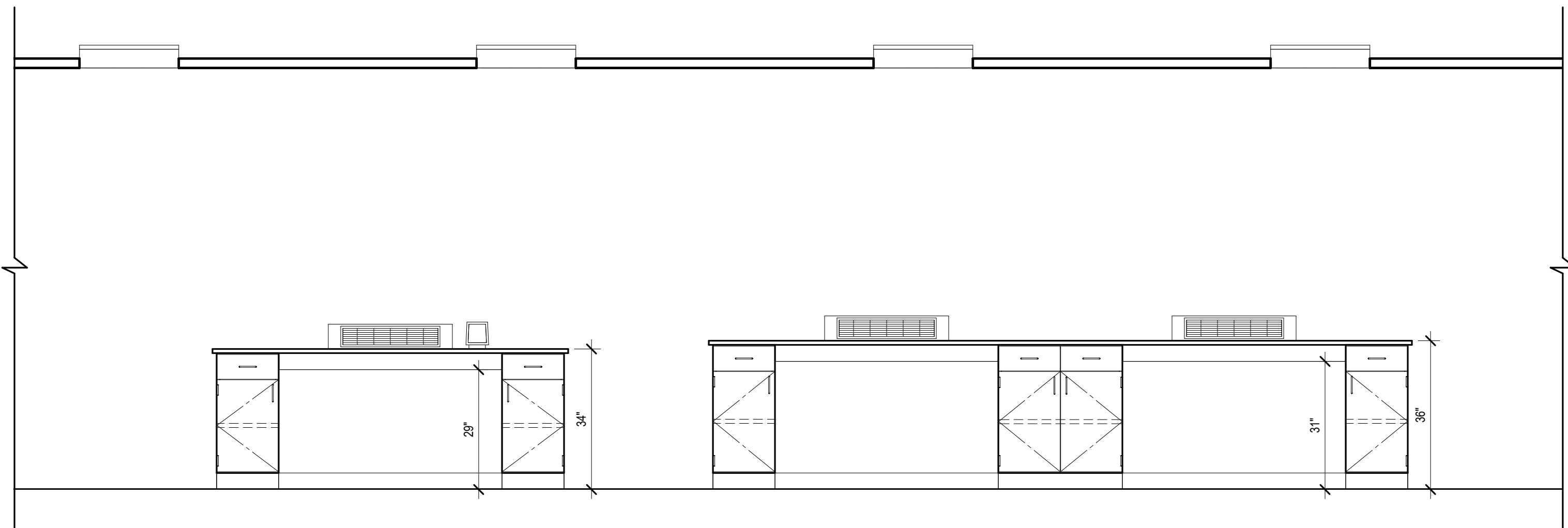


① SCIENCE PREP C01 - NORTH ISLAND
1/2" = 1'-0"

③ SCIENCE LAB B01 - NORTH
1/2" = 1'-0"



② SCIENCE PREP C01 - SOUTH
1/2" = 1'-0"



④ SCIENCE LAB B01 - EAST ISLAND
1/2" = 1'-0"

⑤ SCIENCE LAB B01 - WEST INSTRUCTOR
1/2" = 1'-0"



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APPL. 04-116582
ACS. FLS. SSS.
DATE

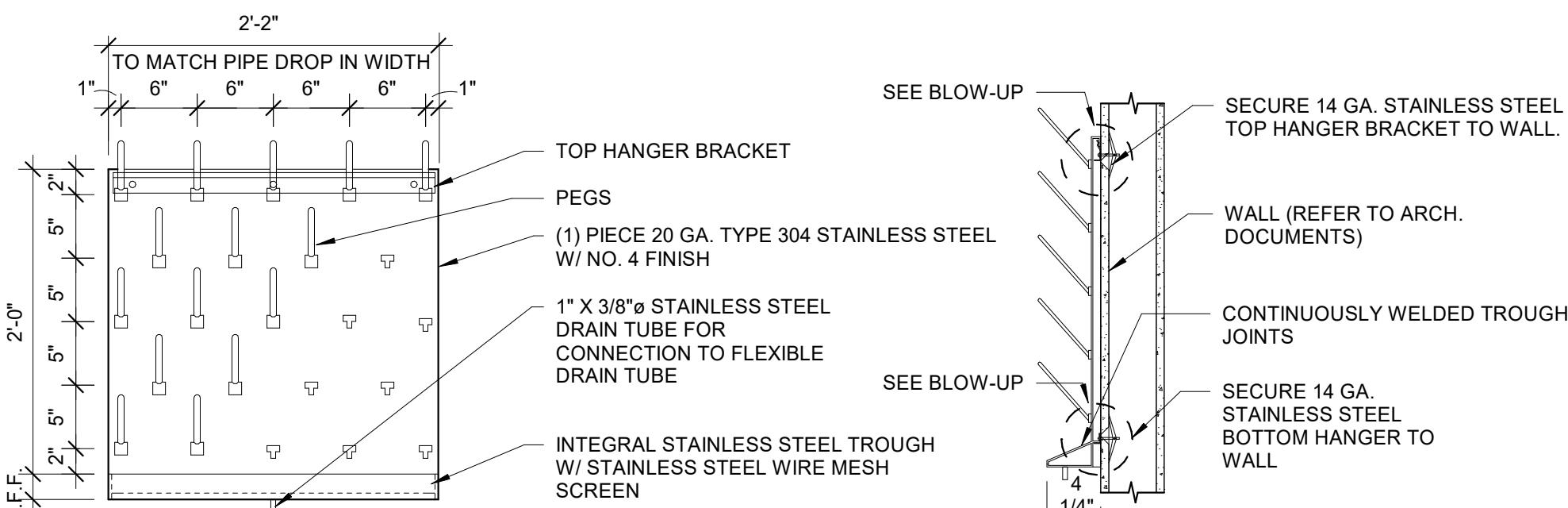
Project Title
Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
**LABORATORY FURNISHINGS
ELEVATIONS**



Designated Designer
Project No. 5015019
Drawn: Author
Scale: 1/2" = 1'-0"
QAQC Checker
Drawing No. LF5.12
Date: 10/13/2017

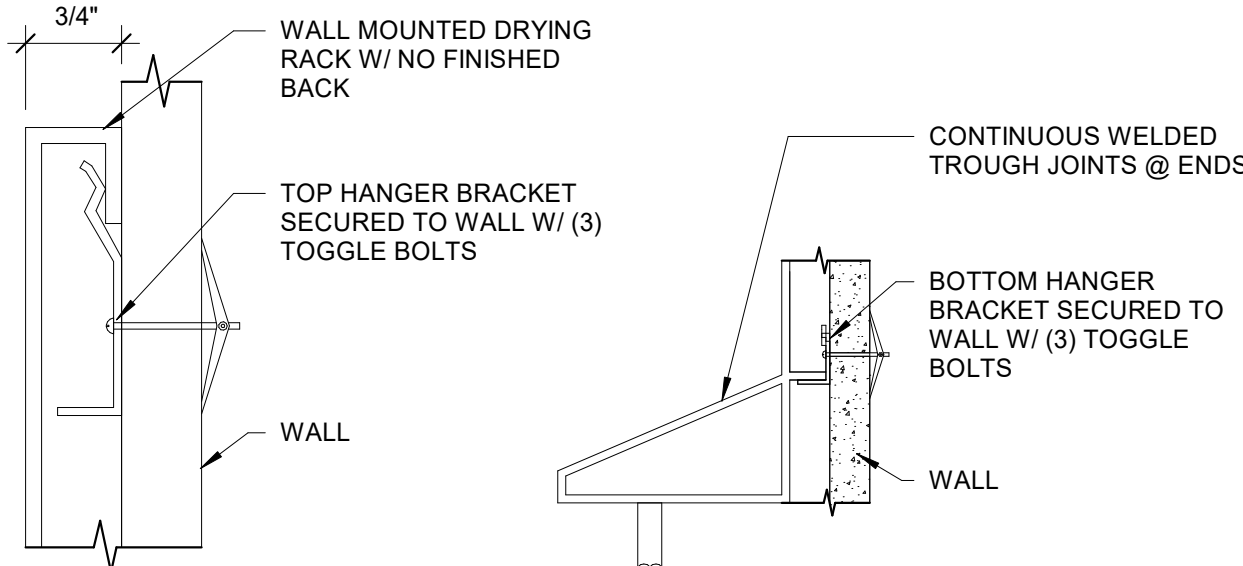


DRYING RACK ELEVATION

1"=1'-0"

SECTION @ WALL CONDITION

1"=1'-0"

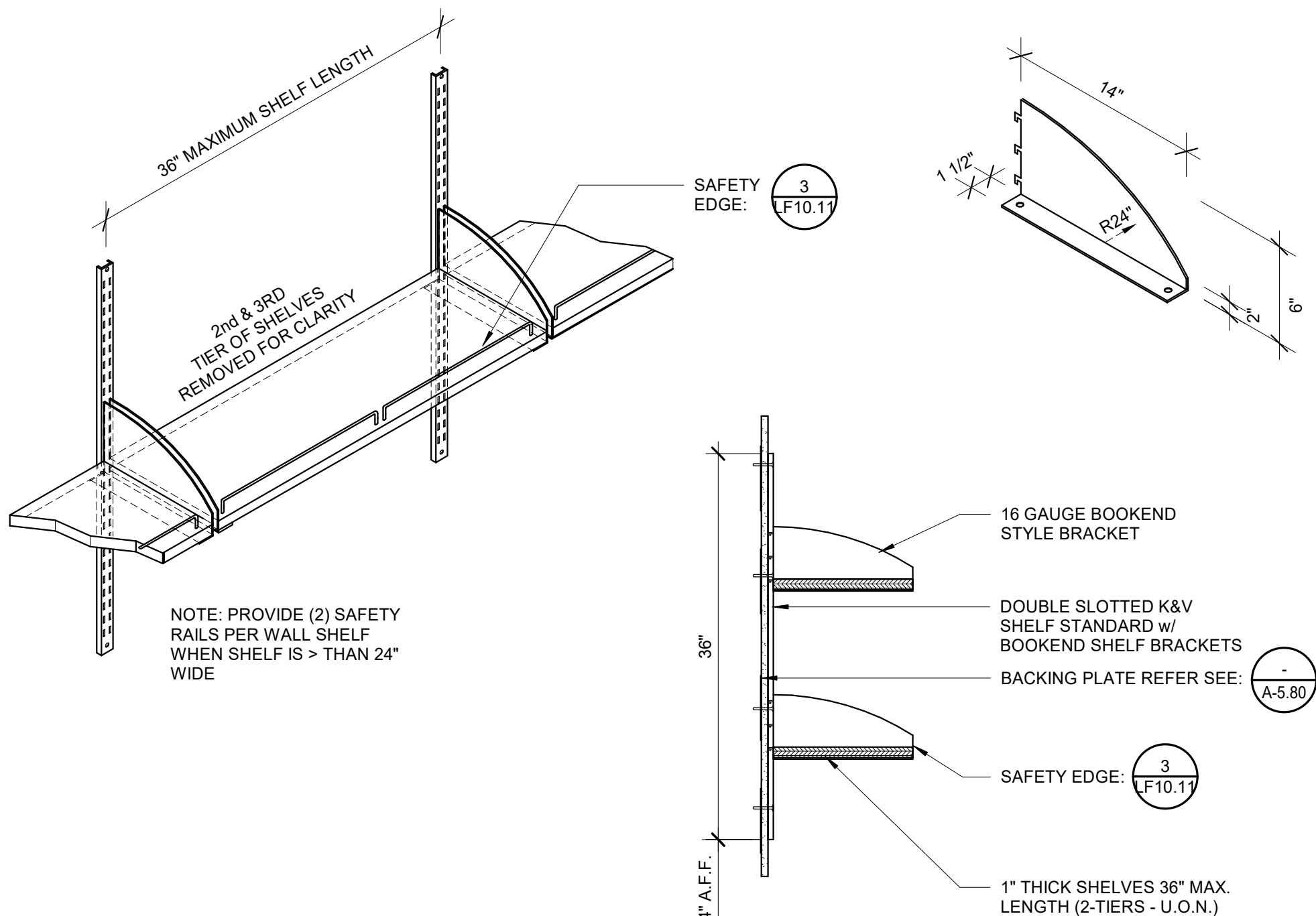


BLOW-UP @ TOP HANGER

3"=1'-0"

BLOW-UP @ BOTTOM HANGER

1-1/2"=1'-0"

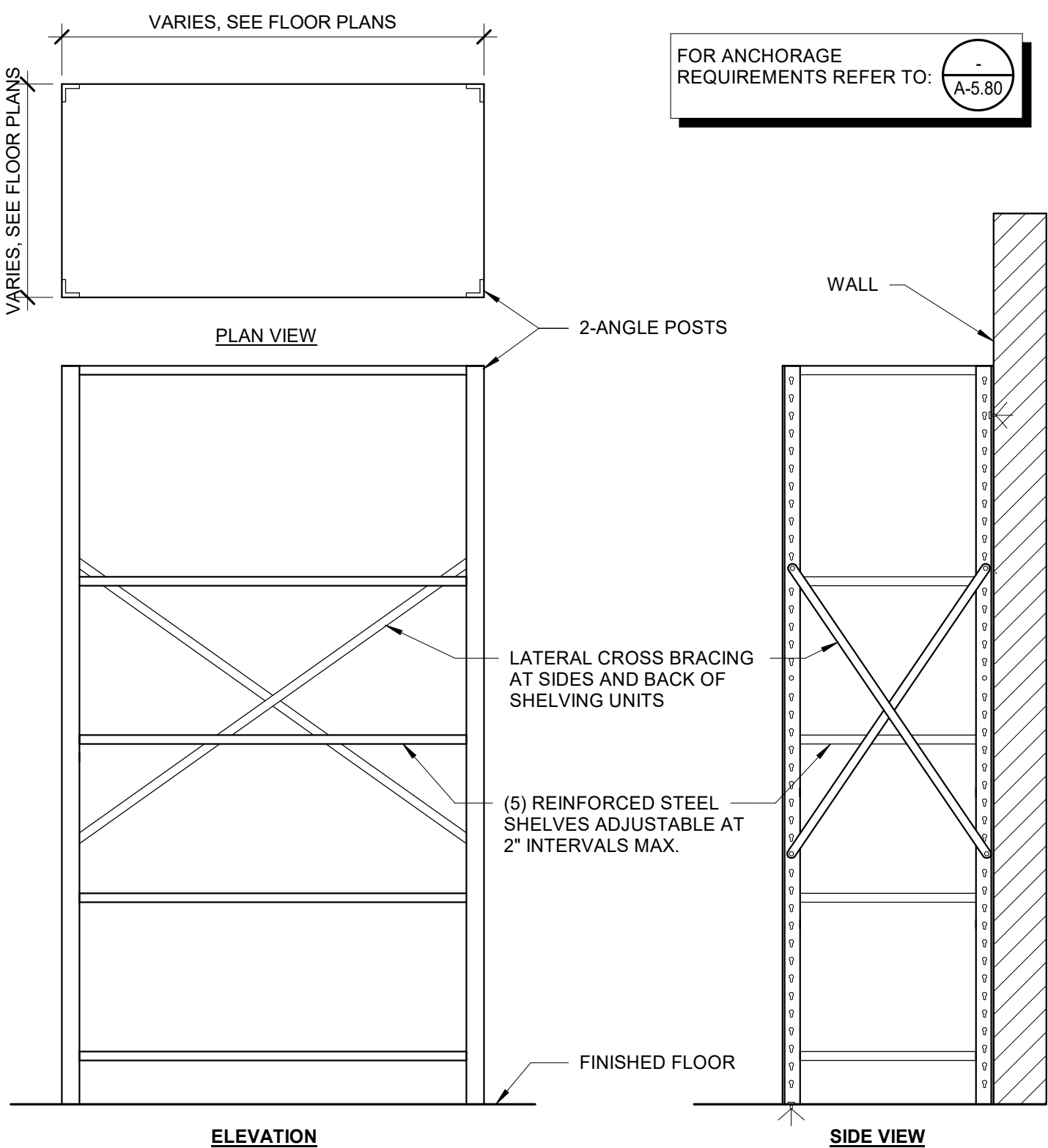


2 ADJUSTABLE WALL SHELVES (2-TIER)

1"=1'-0"

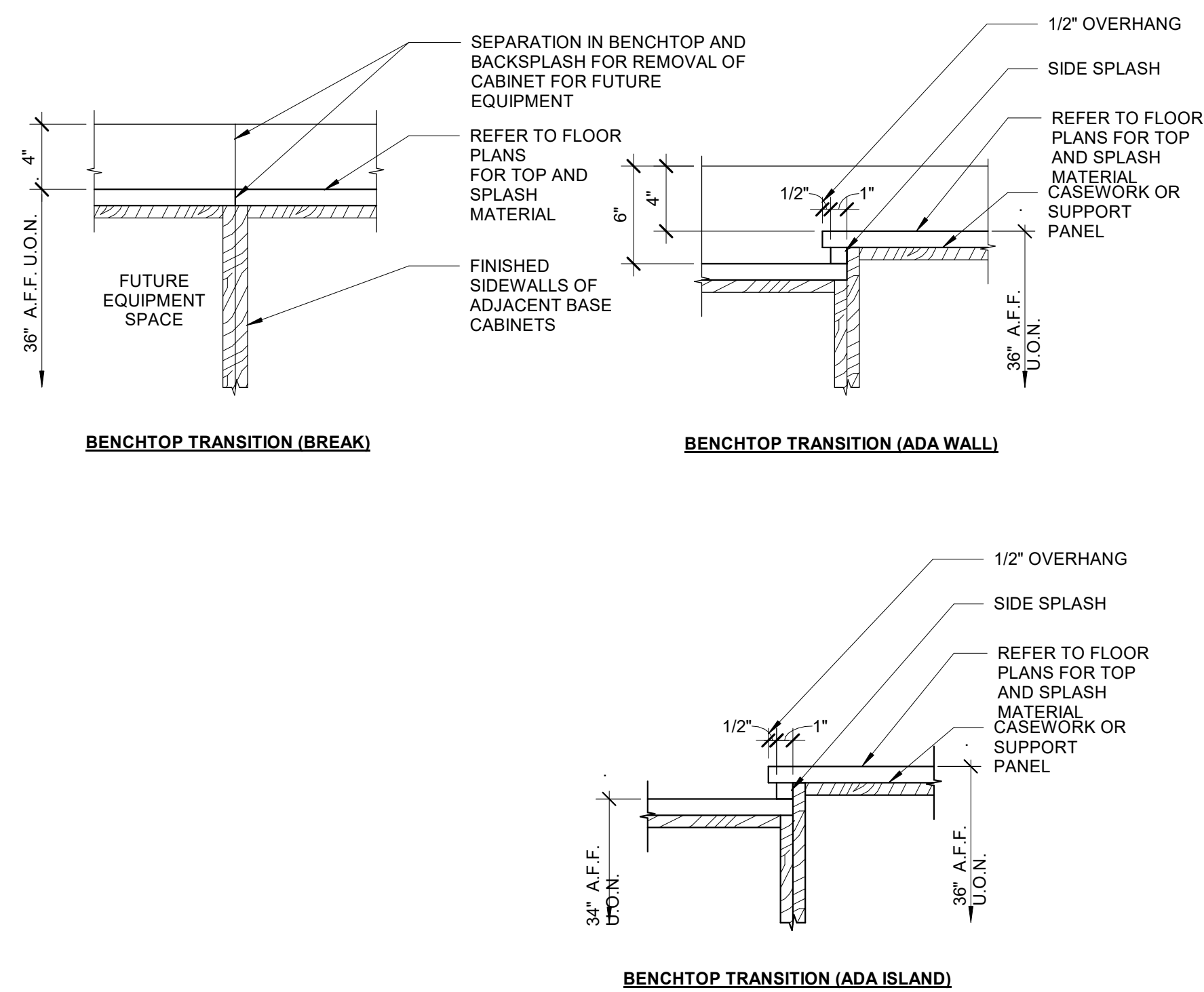
3 SAFETY EDGES

6"=1'-0"



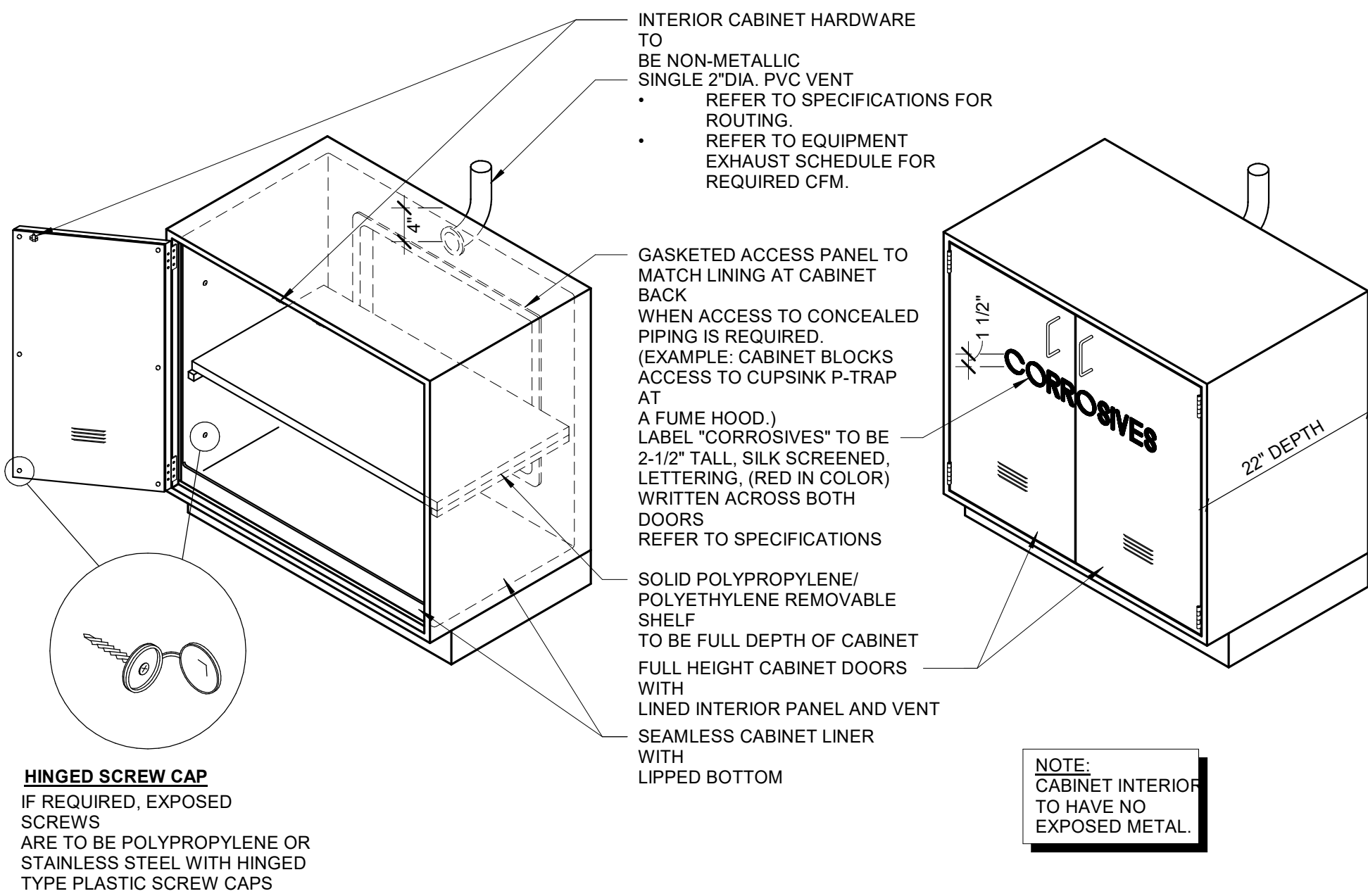
4 INDUSTRIAL SHELVING UNIT

3/4"=1'-0"



5 BENCHTOP TRANSITIONS

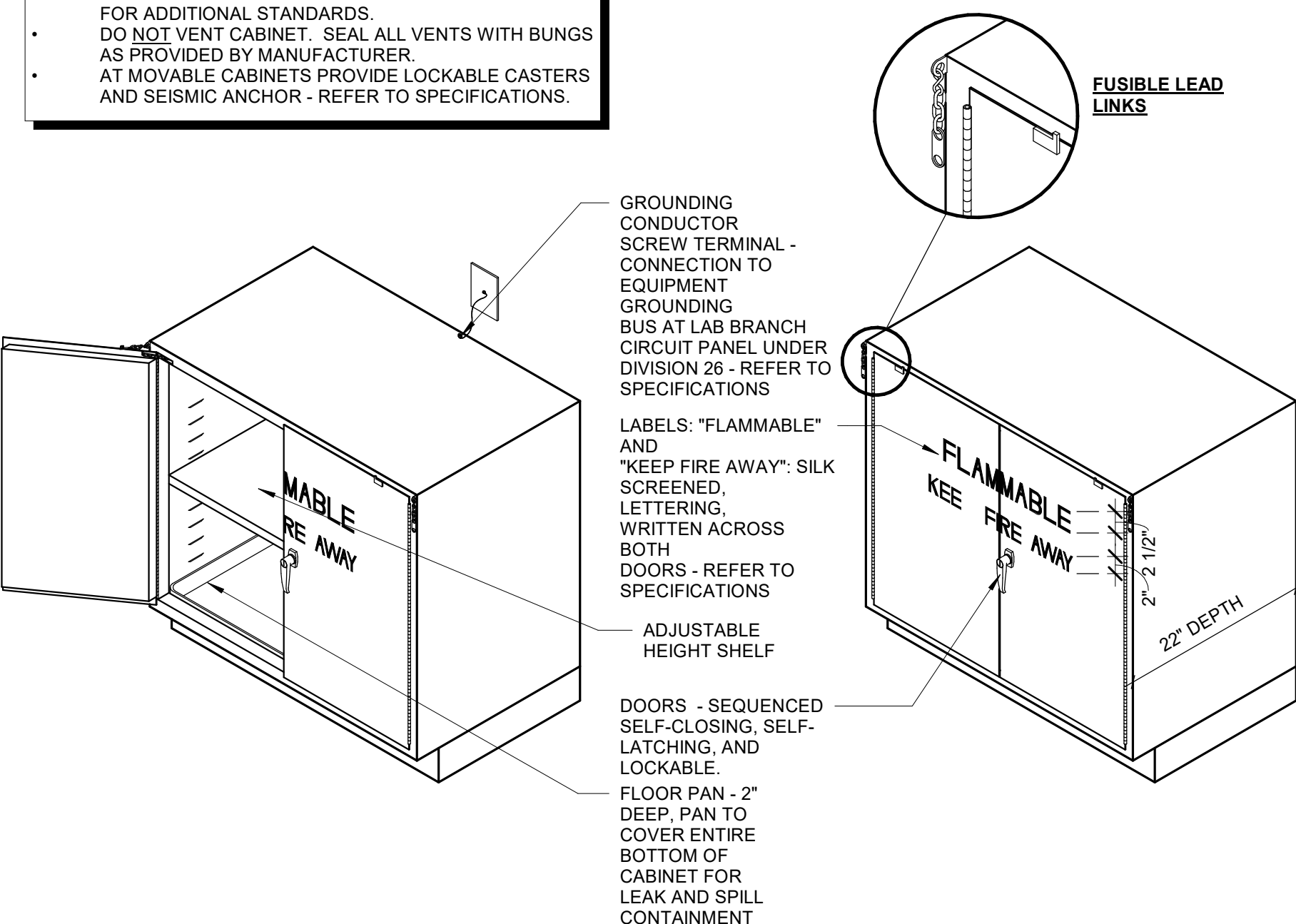
1 1/2"=1'-0"



6 CORROSIVES STORAGE CABINET

3/4"=1'-0"

- NOTES:
- CABINET AND DOORS TO BE OF DOUBLE WALLED METAL CONSTRUCTION (U.O.N.).
 - CABINET TO BE UL RATED - REFER TO SPECIFICATIONS FOR ADDITIONAL STANDARDS.
 - DO NOT VENT CABINET. SEAL ALL VENTS WITH BUNGS AS PROVIDED BY MANUFACTURER.
 - AT MOVABLE CABINETS PROVIDE LOCKABLE CASTERS AND SEISMIC ANCHOR - REFER TO SPECIFICATIONS.



7 FLAMMABLE STORAGE CABINET

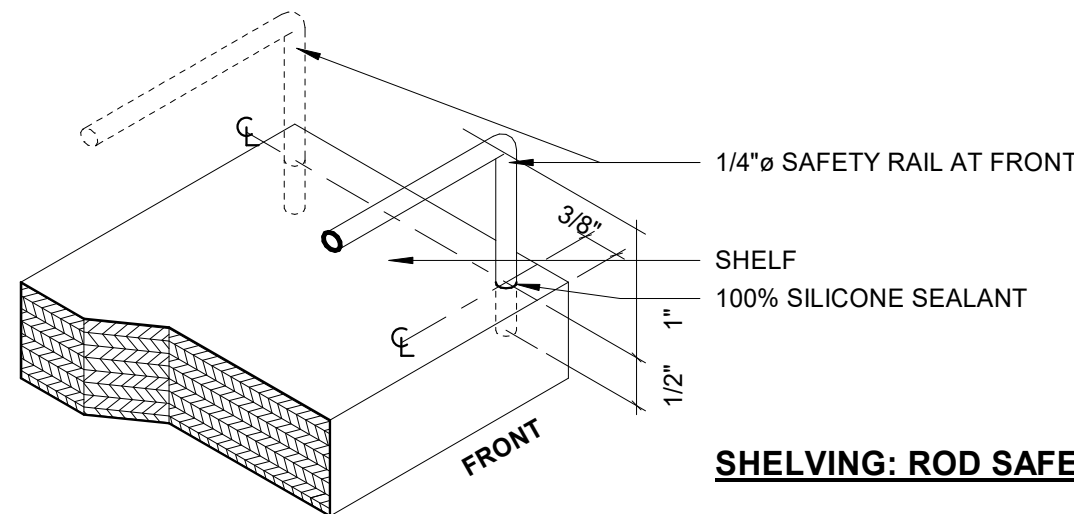
3/4"=1'-0"

HMC Architects

3546 Concourse Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

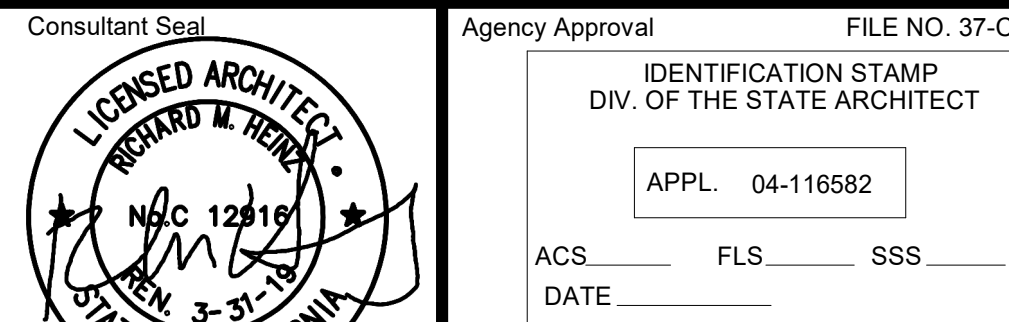
RFD

RESEARCH FACILITIES DESIGN
3965 Fifth Avenue, Suite 400
San Diego, California 92103
TEL 619 297 0159
FAX 619 294 4901



SHELVING: ROD SAFETY EDGE

N:\2017\1-2017023REV\ITL-LOCAL-PALOMAR-2017.rvt



Project Title: Palomar North Education Center - Interim Village
PALOMAR COLLEGE
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

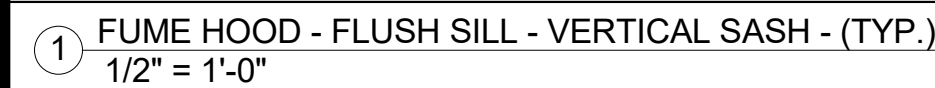
No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title: LABORATORY FURNISHINGS DETAILS

Architect's Seal	Designed: MR	Project No. 5015019
Drawn: EB	Scale: As indicated	
QA/QC: ME R	Drawing No. LF10.11	
Date: 10/13/2017		

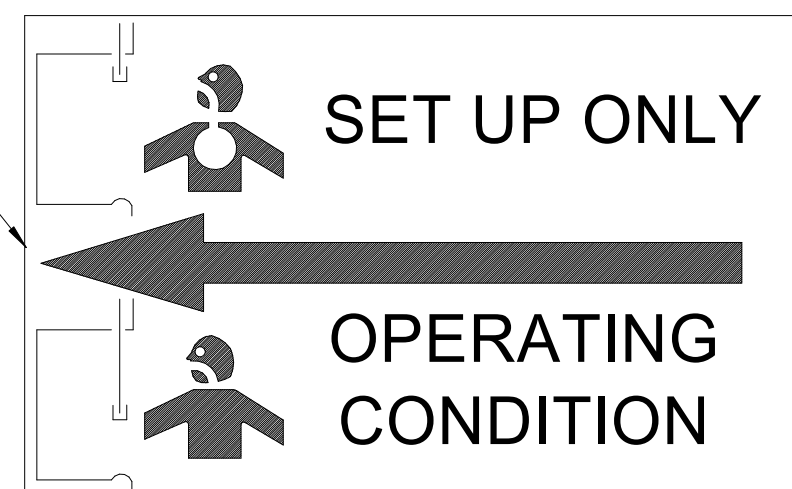
3
LF10.12

4
LF10.12

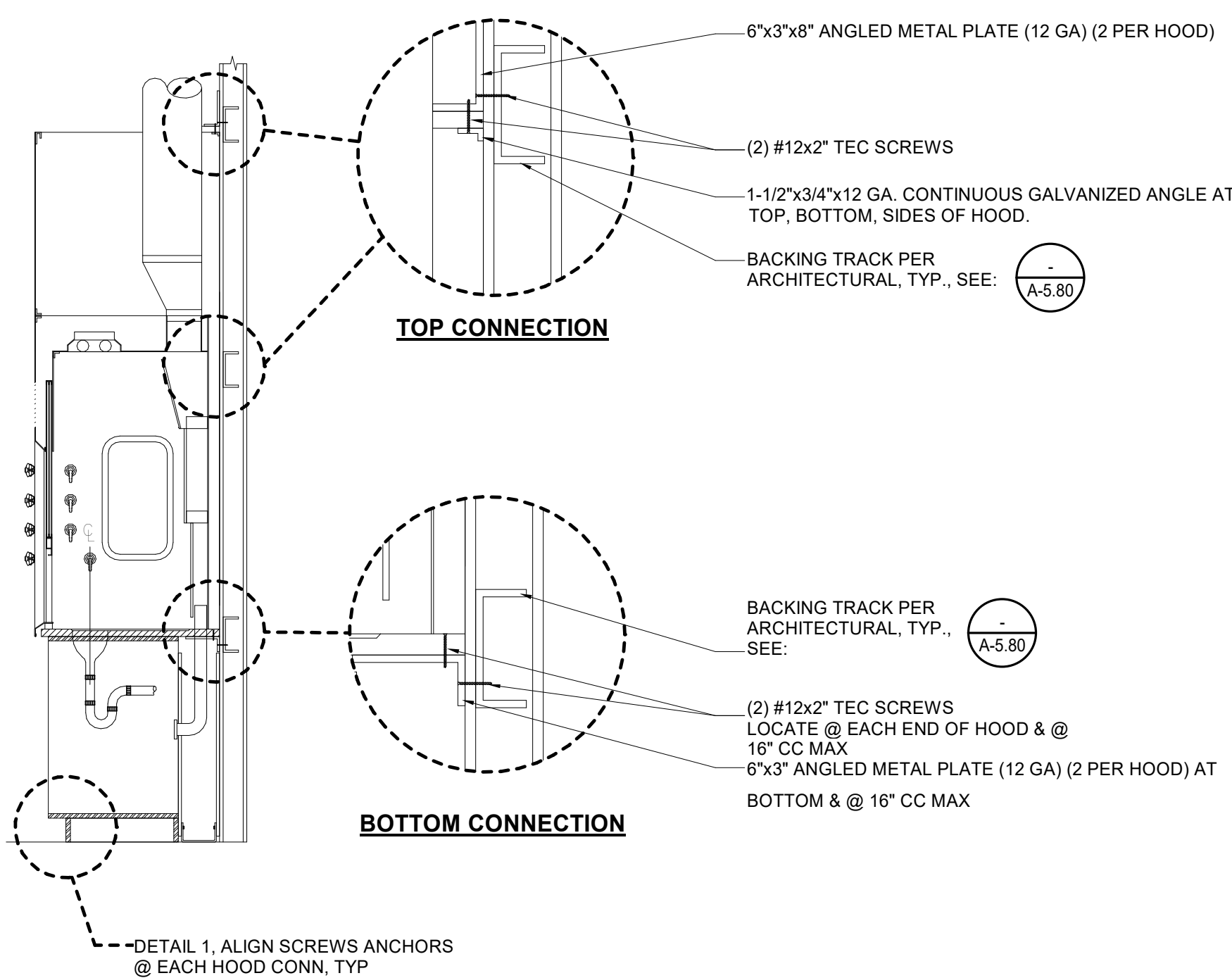


3
LF10.12

4
F10.12



④ FUME HOOD - SAFETY LABEL
1/2" = 1'-0"



④ FUME HOOD - SAFETY LABEL
1/2" = 1'-0"

5 ANCHORAGE DETAIL - HOOD
1 1/2" = 1'-0"



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3965 Fifth Avenue, Suite 400
San Diego, California 92103
TEL 619 • 297 • 0159
FAX 619 • 294 • 4907




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APPL. 04-116582

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DATE _____

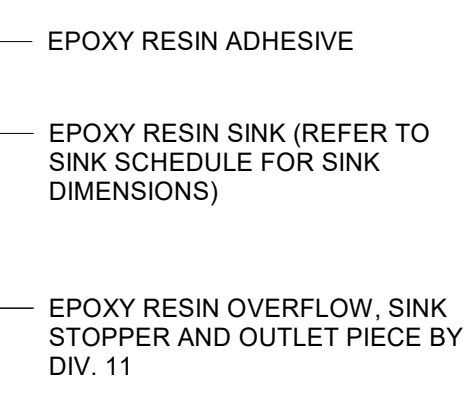
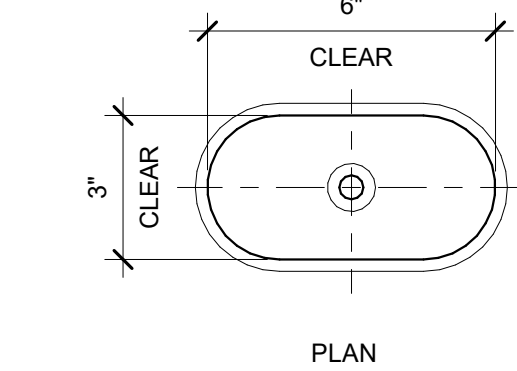
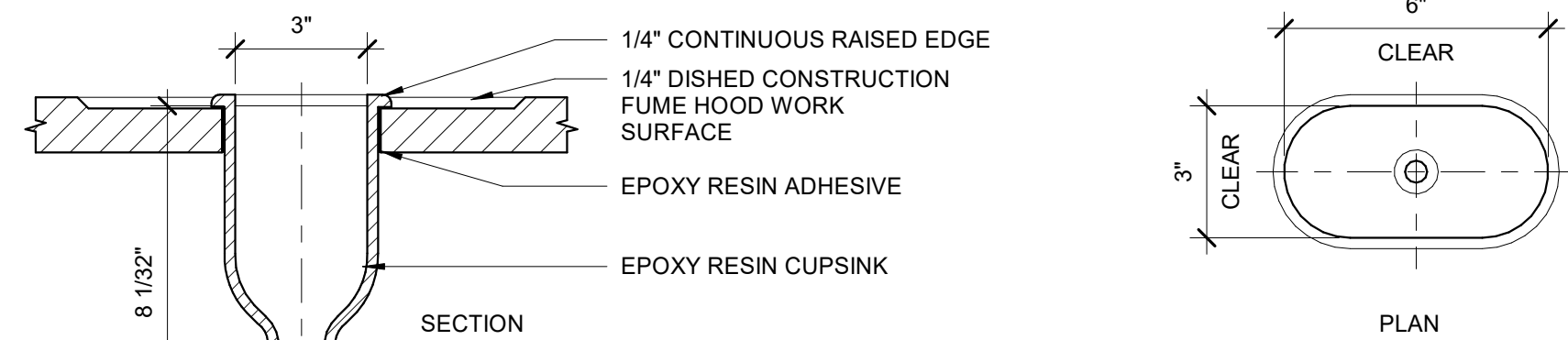
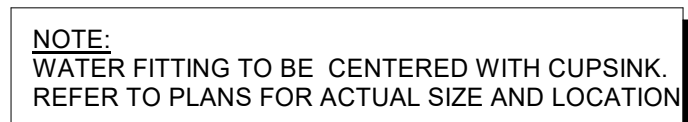
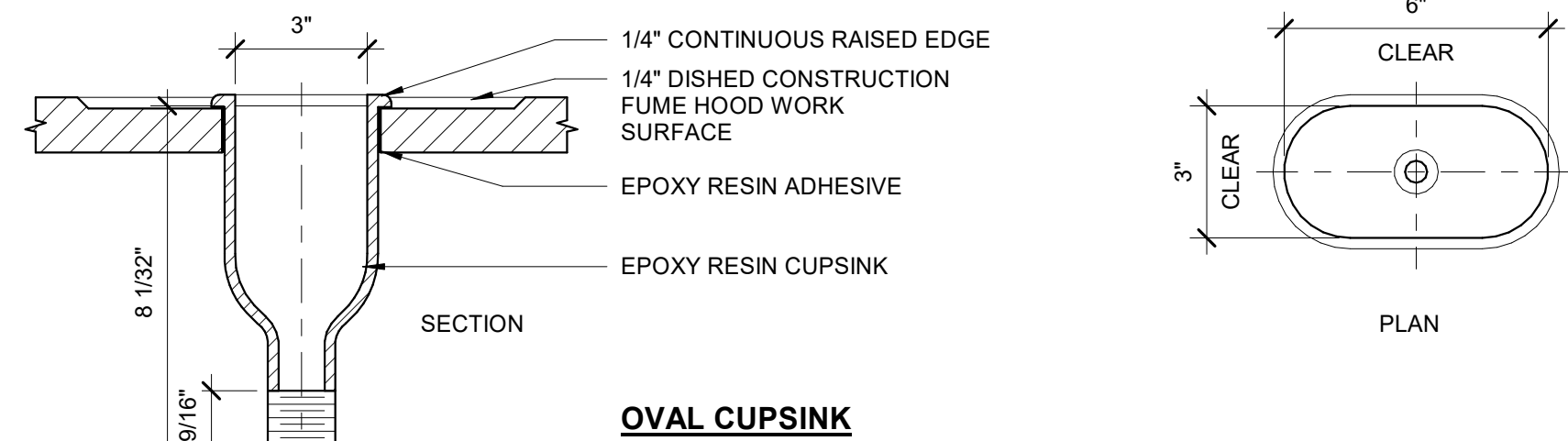
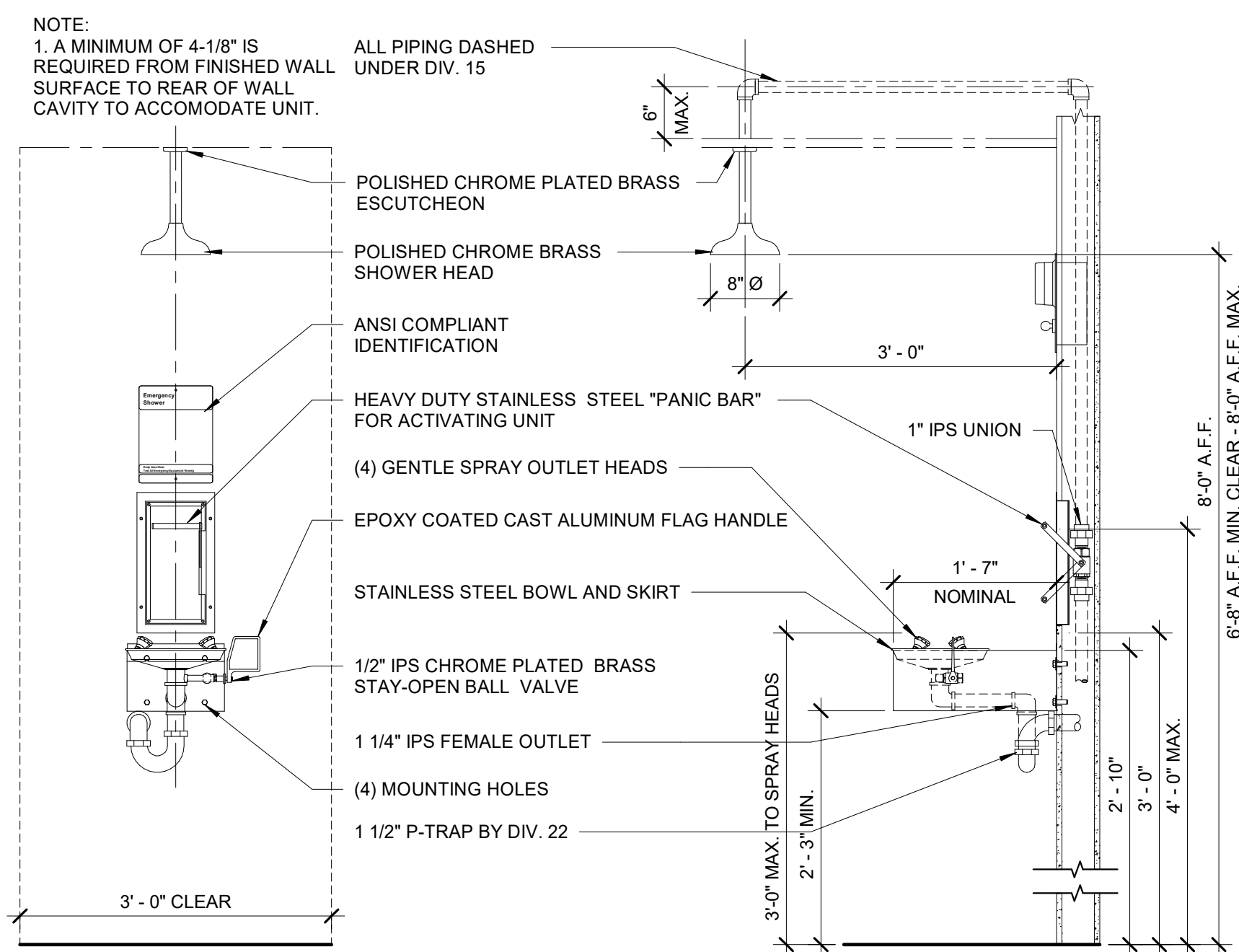
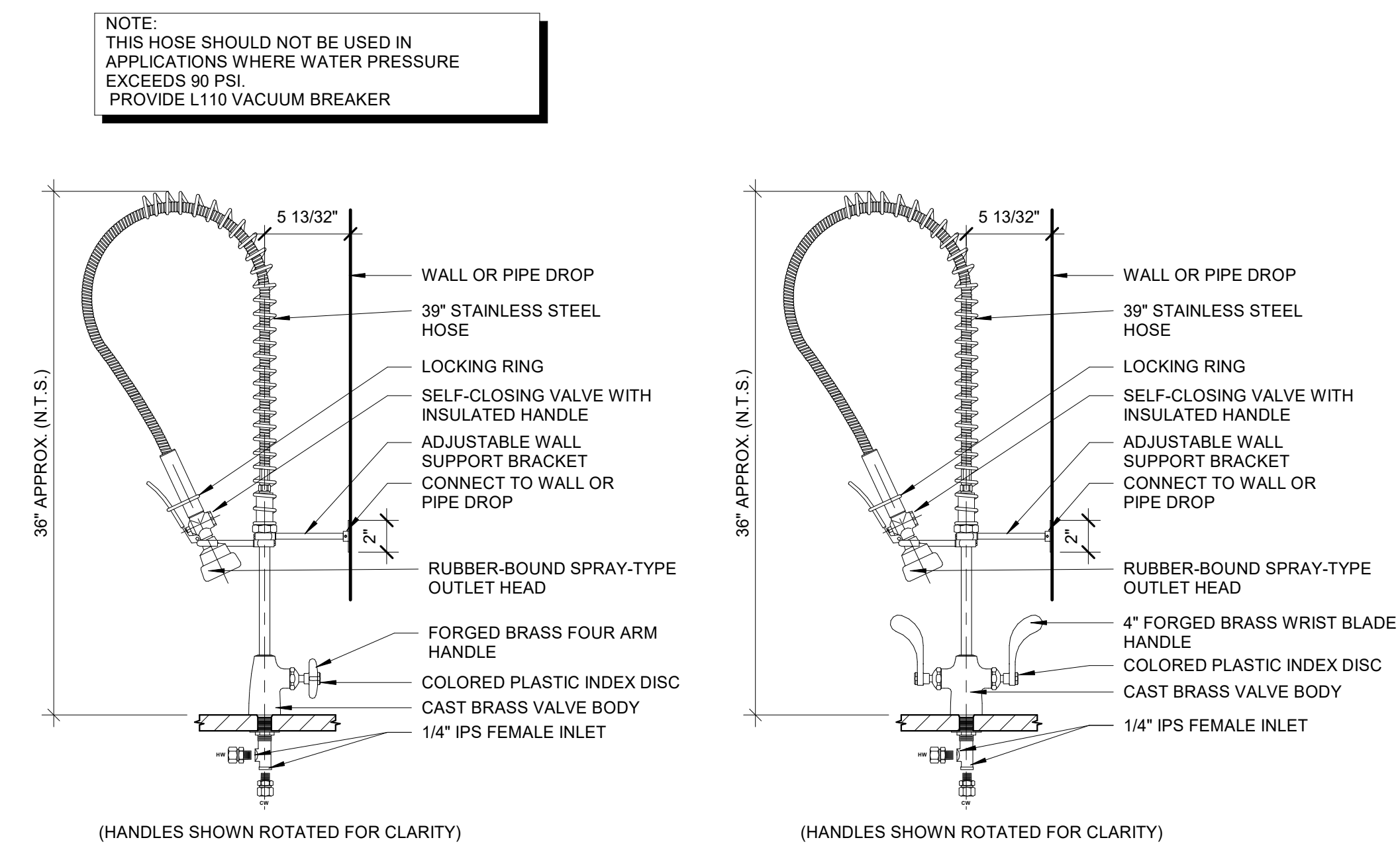
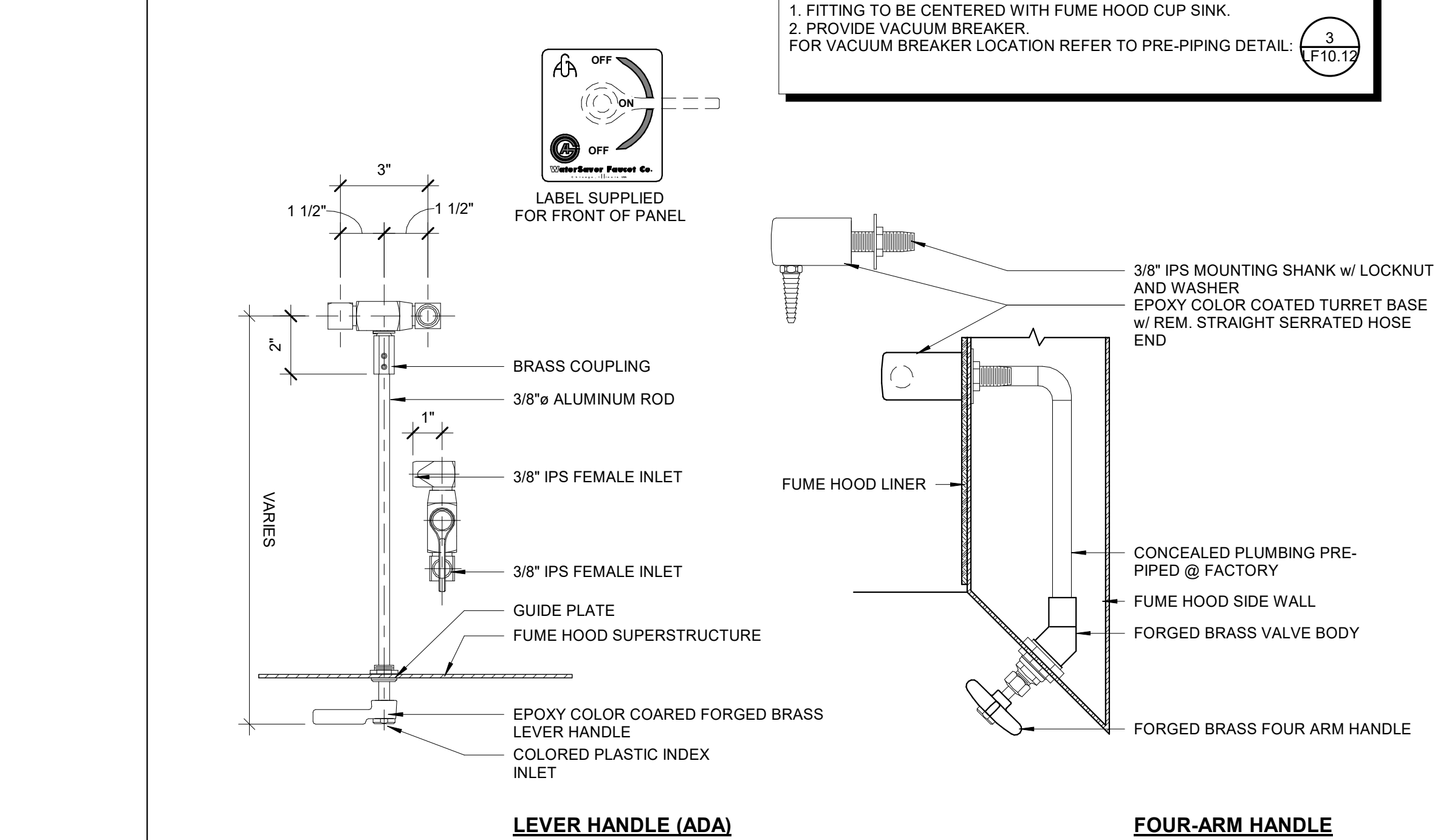
Project Title Palomar North Education Center - Interim Village
 Palomar College
Learning for Success
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017


Drawing Title:
LABORATORY FURNISHINGS FUME
HOOD DETAILS

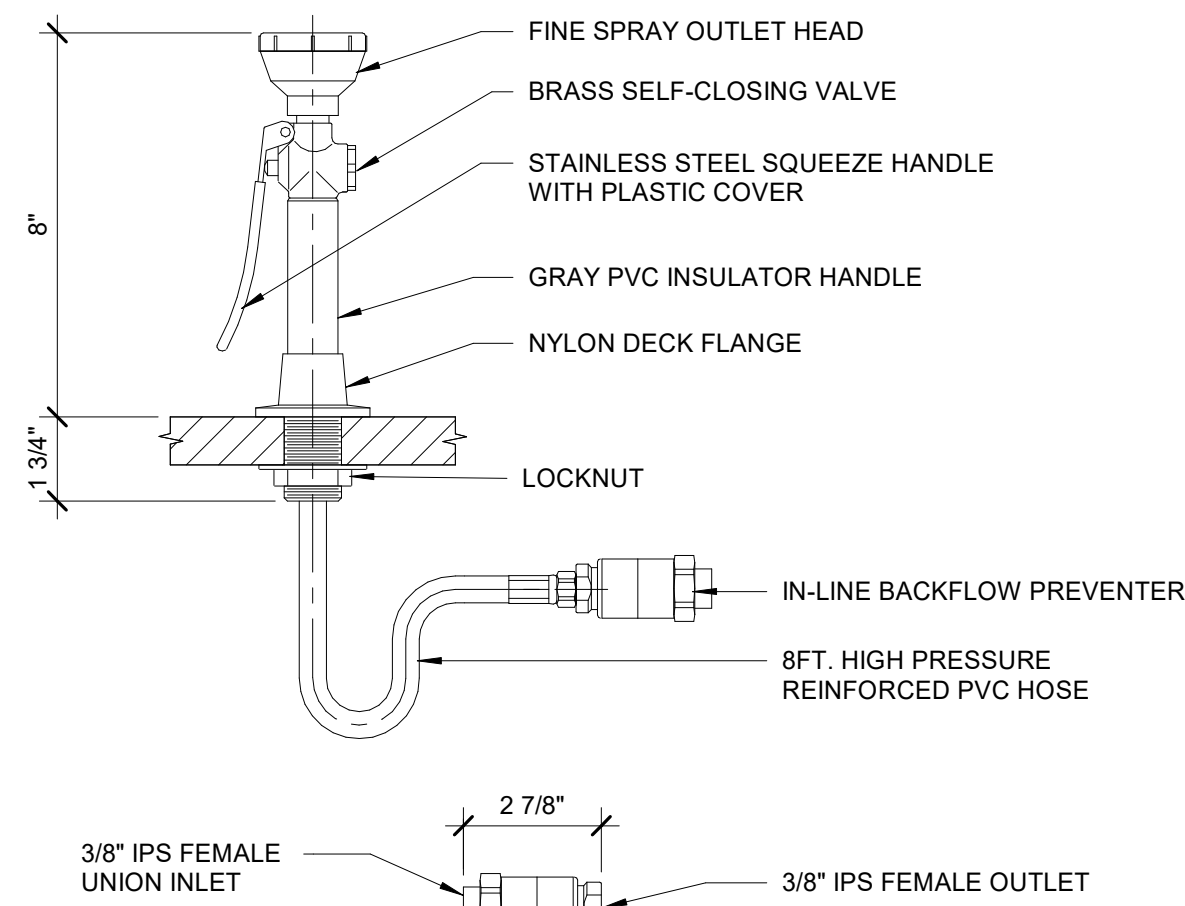


Designed:	MR	Project No.	5015019
Drawn:	EB	Scale:	As indicated
QAQC	ME R	Drawing No.	LF10.12
Date:	10/13/2017		

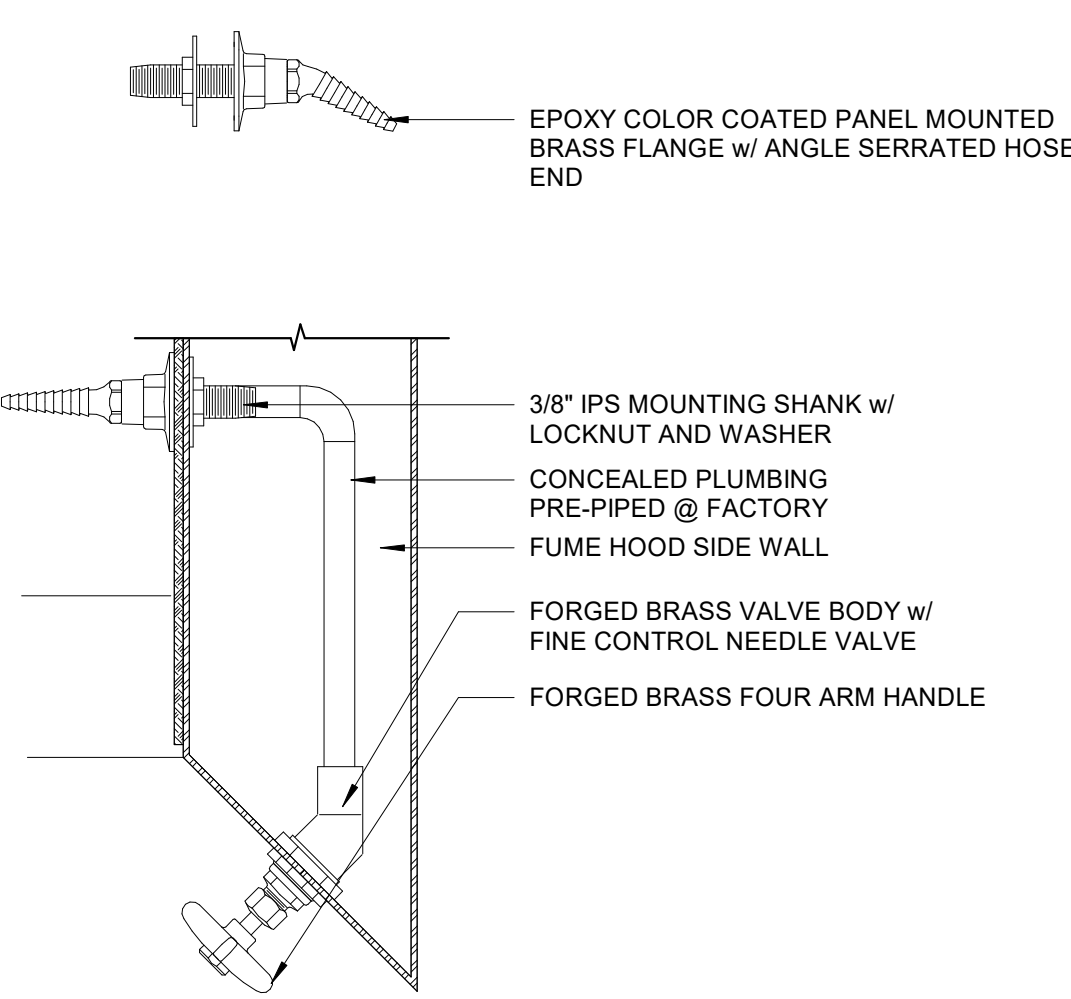


Drawing Title:
LABORATORY FURNISHINGS
FITTINGS DETAILS

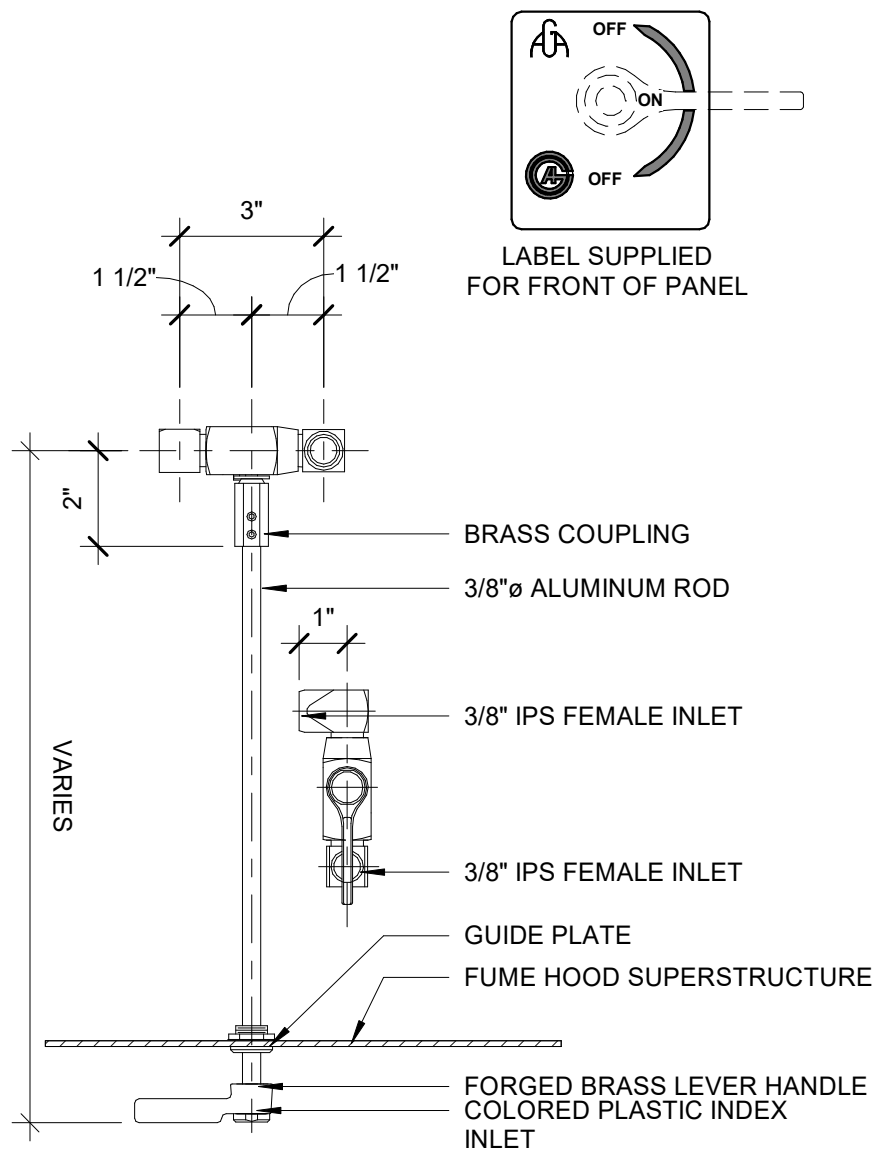
Architect's Seal	Designed: MR	Project No. 50150
	Drawn: EB	Scale: As indicated
	QA/QC MER	Drawing No. LF10.1
	Date: 10/13/2017	



NOTES:
1. LOCAL PLUMBING INSPECTOR SHALL APPROVE IN WRITING THIS SPECIFIC BACKFLOW DEVICE AND THE SYSTEM CONFIGURATION PRIOR TO SHIPPING & INSTALLATION
2. NO SHARP OBJECTS TO BE INSTALLED BELOW SINK WHERE DRENCH HOSES OCCUR

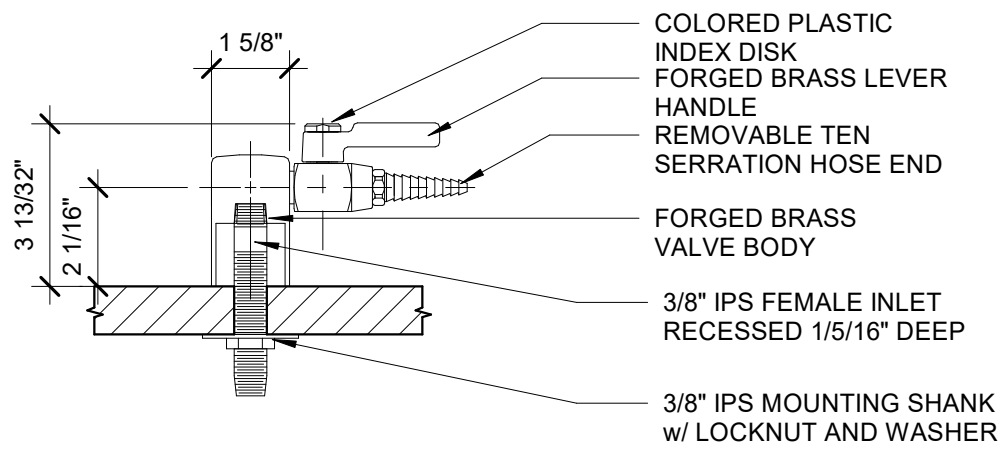


FOUR-ARM HANDLE



LEVER HANDLE (ADA)

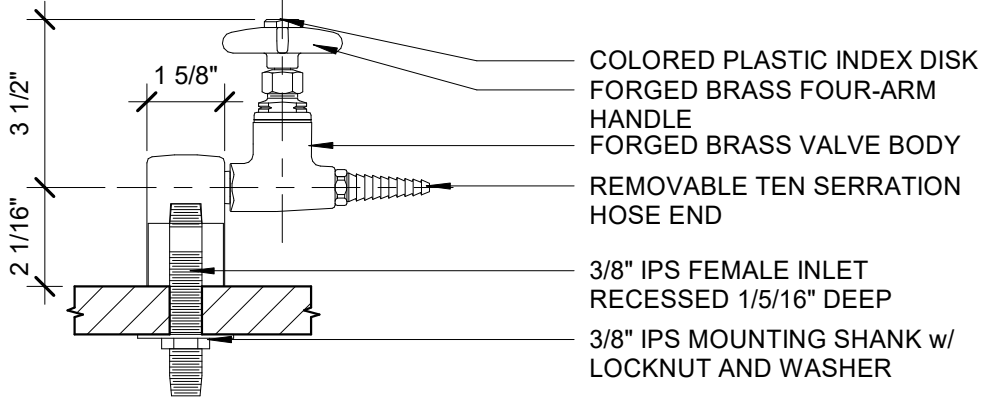
POSSIBLE CONFIGURATIONS



LEVER HANDLE

NOTE:
PROVIDE LEVER HANDLE AT ALL LG (LAB GAS) FITTINGS

POSSIBLE CONFIGURATIONS

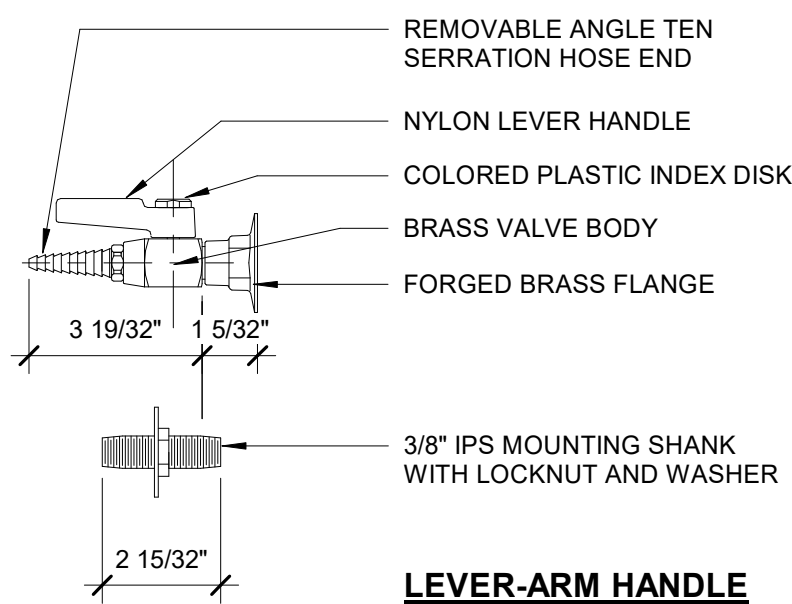


FOUR-ARM HANDLE

2 LG, LA & LV - HOOD
3" = 1'-0"

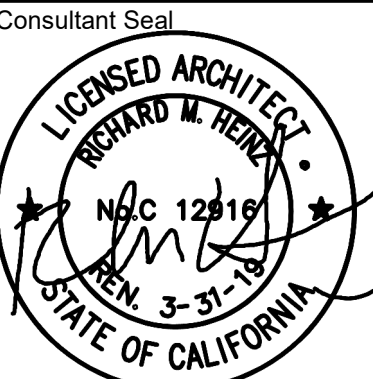
3 EWDH - DECK
3" = 1'-0"

1 LG, LA & LV - DECK
3" = 1'-0"



LEVER-ARM HANDLE

4 LG, LA & LV - WALL/PANEL - STRAIGHT
3" = 1'-0"



Agency Approval
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116582
ACS____ FLS____ SSS____
DATE____

Project Title
Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
LABORATORY FURNISHINGS
FITTINGS DETAILS

Architect's Seal	Designed: MR	Project No. 5015019
NO. C-32437 RENEW. 02-28-19 STATE OF CALIFORNIA	Drawn: EB	Scale: 3" = 1'-0"
	QAQC ME R	Drawing No. LF10.14
	Date: 10/13/2017	

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NOTE CALLOUT		COOLING COIL		ELBOW FACING AWAY FROM VIEWER
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN		HEATING COIL		ELBOW FACING TOWARD VIEWER
	MECHANICAL EQUIPMENT CALLOUT. SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS		DAMPER, OPPOSED BLADE		TEE FACING AWAY FROM VIEWER
	SECTION CALLOUT		DAMPER, PARALLEL BLADE		TEE FACING TOWARD VIEWER
	POINT OF CONNECTION		FILTER		PIPE CAP
	POINT OF DISCONNECTION		HUMIDIFIER		TRANSITION, ASYMMETRIC
	NEW LINework		LOUVER		TRANSITION, SYMMETRIC
	EXISTING LINework		ACCESS DOOR OR ACCESS PANEL (AP) IN DUCTWORK		EXPANSION JOINT (COMPENSATOR)
	DEMOLITION LINework		STATIC PRESSURE CHANGE TAG		PIPE GUIDE
	NEW PIPING (SIZE-SERVICE)		STATIC PRESSURE TAG		PIPE ANCHOR
	SHEET METAL DUCT		TURNING VANES (RECTANGULAR)		AIR SEPARATOR
	HIDDEN SHEET METAL DUCT		DRAIN, FUNNEL		DOUBLE CHECK BACKFLOW PREVENTER
	INTERNALLY INSULATED SHEET METAL DUCT		PUMP		FLOW METER
	DIRECTION OF FLOW		CENTRIFUGAL FAN		FLOW REGULATOR AND FLOW LIMITING VALVE
	STANDARD BRANCH FOR SUPPLY AND RETURN		CONVERTER OR HEAT EXCHANGER SHELL AND TUBE		PUMP SUCTION DIFFUSER
	ROUND ELBOW DOWN		PLATE HEAT EXCHANGER		REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	ROUND ELBOW UP		BALL VALVE		VACUUM BREAKER
	RECTANGULAR TO ROUND TRANSITION		BALL VALVE W/ ACTUATOR		AIR VENT, AUTOMATIC
	FLEXIBLE DUCT		BUTTERFLY VALVE		FLEXIBLE CONNECTION
	FLEX CONNECTION		BUTTERFLY VALVE W/ ACTUATOR		SAFETY OR RELIEF VALVE
	BACK DRAFT DAMPER		GATE VALVE		UNION, SCREWED
	FIRE DAMPER		GATE VALVE W/ ACTUATOR		ANALOG SIGNAL
	COMBINATION FIRE AND SMOKE DAMPER		GLOBE VALVE		DIGITAL SIGNAL
	MOTORIZED DAMPER		GLOBE VALVE W/ ACTUATOR		ELECTRIC LEAD
	SUPPLY DIFFUSER: 2-WAY/3-WAY/4-WAY		THREE-WAY VALVE		INSTRUMENT CAPILLARY TUBING
	GRILLE: RETURN/EXHAUST		THREE-WAY VALVE W/ ACTUATOR		ELECTRONIC 3-WAY VALVE
	1x2' RETURN AIR GRILLE		CHECK VALVE, SWING		ELECTRONIC 2-WAY VALVE
	2x2' RETURN AIR GRILLE		CHECK VALVE, SPRING LOADED		DDC INPUT
	SUPPLY AIR DUCT SECTION		MULTI-PURPOSE VALVE		DDC OUTPUT
	RETURN AIR DUCT SECTION		FLOW MEASURING AND BALANCING VALVE		LOCALLY MOUNTED INSTRUMENT
	EXHAUST AIR DUCT SECTION		HOSE BIBB VALVE		CARBON DIOXIDE SENSOR
	POWER OR GRAVITY ROOF VENTILATOR - EXHAUST		LOCK SHIELD MANUAL VALVE		DIFFERENTIAL PRESSURE SENSOR
	POWER OR GRAVITY ROOF VENTILATOR - SUPPLY		PLUG VALVE		FLOW METER
	UNDERCUT DOOR		PRESSURE REGULATOR		AIRFLOW SENSOR
	TRANSFER GRILLE OR LOUVER		PRESSURE-REDUCING REGULATOR		RELATIVE HUMIDITY SENSOR
	DOOR GRILLE OR LOUVER		STRAINER		TEMPERATURE SENSOR
	SINGLE DUCT VAV BOX WITH REHEAT COIL		STRAINER, DOUBLE BASKET		AVERAGING TEMPERATURE SENSOR
	SINGLE DUCT VAV BOX WITHOUT REHEAT COIL		PRESSURE GAUGE WITH SHUTOFF COCK		
	SPACE TEMPERATURE SENSOR		PRESSURE GAUGE WITH SNUBBER AND SHUTOFF COCK		
	PRESSURE SWITCH		SHUTOFF COCK		
	SMOKE DETECTOR		SELF-SEALING PRESSURE AND TEMPERATURE TAP		
	STATIC PRESSURE SENSOR		THERMOMETER		
	REFRIGERANT SENSOR		THERMOWELL		
	DEW POINT SENSOR				
	SPACE HUMIDITY SENSOR				

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT	HD	HEAD
ABV	ABOVE	HP	HEAT PUMP
AC	AIR CONDITIONING UNIT	HP	HORSEPOWER
AD	ACCESS DOOR	HT	HEIGHT
AFB	ABOVE FINISHED FLOOR	HZ	HERTZ
AHU	AIR HANDLING UNIT	IC	MOTOR STATUS
ALUM	ALUMINUM	ICW	INDUSTRIAL COLD WATER
AP	ACCESS PANEL	ID	INSIDE DIAMETER
BD	BLOWDOWN	IN	INCHES
BDD	BACK DRAFT DAMPER	KW	KILOWATTS
BEL	BELOW	LAT	LEAVING AIR TEMPERATURE
BFC	BELOW FINISHED CEILING	LBS	POUNDS
BFP	BACK FLOW PREVENTER	LD	LINEAR DIFFUSER
BHP	BRAKE HORSEPOWER	LF	LINEAR FEET
BLDG	BUILDING	LWT	LEAVING WATER TEMPERATURE
BOB	BOTTOM OF BEAM	MAX	MAXIMUM
BOP	BOTTOM OF PIPE	MBH	THOUSAND BTU PER HOUR
BSMT	BASEMENT	MC	MECHANICAL CONTRACTOR
BTU	BRITISH THERMAL UNIT	MCA	MINIMUM CIRCUIT AMPS
CD	CEILING DIFFUSER	MH	MANHOLE
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM
CH	CHILLED	MOCP	MAXIMUM OVERLOAD CIRCUIT PROTECTION
CHWP	CHILLED WATER PUMP	MTD	MOUNTED
CHWR	CHILLED WATER RETURN	MUA	MAKE-UP AIR UNIT
CHWS	CHILLED WATER SUPPLY	NFA	NET FREE AREA
CI	CAST IRON	NIC	NOT IN CONTRACT
CL	CENTER LINE	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
CLG	CLEAN OUT	ODT	OUTSIDE AIR TEMPERATURE
COL	COLUMN	OBD	OPPOSED BLADE DAMPER
CP	CONDENSATE PUMP	OC	ON CENTER
CT	COOLING TOWER	OD	OUTSIDE DIAMETER
CJ	CONDENSING UNIT	OSA	OUTSIDE AIR
CV	CONSTANT VOLUME BOX	PBD	PARALLEL BLADE DAMPER
CWP	CONDENSER WATER PUMP	PSD	PRESSURE DROP
CWR	CONDENSER WATER RETURN	PERF	PERFORATED
CWS	CONDENSER WATER SUPPLY	PH	PHASE
CWFR	CONDENSER WATER FILTER RETURN	POD	POINT OF DISCONNECT
CWFS	CONDENSER WATER FILTER SUPPLY	PRV	PRESSURE REDUCING VALVE
DB	DEGREES	PSD	POUNDS PER SQUARE INCH DIFFERENTIAL
DEG	DEGREES	PSIG	POUNDS PER SQUARE INCH GAUGE
DIA	DIAMETER	PTAC	PACKAGED TERMINAL AIR CONDITIONER
DL	DOOR LOUVER	PVC	POLYVINYL CHLORIDE
DN	DOWN	RA	RETURN AIR
DS	DUCT SILENCER	RAG	RETURN AIR GRILLE
DWP	DOMESTIC WATER PUMP	RAR	RETURN AIR REGISTER
DX	DIRECT EXPANSION	RD	ROOF DRAIN
(E)	EXISTING	RF	RETURN FAN
EA	EACH	RHC	REHEAT COIL
EAT	ENTERING AIR TEMPERATURE	RLA	RATED LOAD AMPS
EC	ELECTRICAL CONTRACTOR	RPM	REVOLUTIONS PER MINUTE
EF	EXHAUST FAN	SA	SUPPLY AIR
EFF	EFFICIENCY	SAR	SUPPLY AIR REGISTER
EJ	EXPANSION JOINT	SD	SMOKE DAMPER
EL	ELEVATION	SF	SUPPLY FAN
EQ	EQUAL	SMBH	SENSEIBLE MBH
ER	EXHAUST REGISTER	SPIC	SPECIFICATION
ESP	EXTERNAL STATIC PRESSURE	SS	STAINLESS STEEL
ET	EXPANSION TANK	STD	STANDARD
EWC	ELECTRIC WATER COOLER	TAD	TRANSFER AIR DUCT
EWT	ENTERING WATER TEMPERATURE	TDH	TOTAL DYNAMIC HEAD
F	FAHRENHEIT	TEFC	TOTALLY ENCLOSED FAN COOLED
FA	FREE AREA	TEMP	TEMPERATURE
FC	FAN COOL UNIT	TG	TRANSFER GRILLE
FD	FIRE DAMPER	TMBH	TOTAL MBH
FG	FILTER GRILLE	TSP	TOTAL STATIC PRESSURE
FLA	FULL LOAD AMPS	TYP	TYPICAL
FLR	FLOOR	UC	UNDERCUT
FOB	FLAT ON BOTTOM	UC	UNDERCUT
FOT	FLAT ON TOP	UON	UNLESS OTHERWISE NOTED
FP	FIRE PUMP	V	VOLTS
FPI	FINS PER INCH	VAV	VARIABLE AIR VOLUME UNIT
FPM	FEET PER MINUTE	VD	VOLUME DAMPER
FT	FEET OR FOOT	VFD	VARIABLE FREQUENCY DRIVE
FX	FLEXIBLE CONNECTION	VIR	VENT THRU ROOF
GA	GAUGE	W	WITH
GALV	GALVANIZED	WO	WITHOUT
GC	GENERAL CONTRACTOR	WB	WET BULB
GPH	GALLONS PER HOUR	WC	WATER COLUMN
GPM	GALLONS PER MINUTE	WG	WATER GAUGE
HB	HOSE BIBB	WT	WEIGHT

REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED. ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

CONTROL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	ALARM	PT	PRESSURE TRANSMITTER
AI	ANALOG INPUT	PH	RELATIVE HUMIDITY
AO	ANALOG OUTPUT	S	STATUS
DI	DIGITAL INPUT	SC	SPEED CONTROL
DO	DIGITAL OUTPUT	SI	SPEED INDICATOR
DP	DIFFERENTIAL PRESSURE	SP	SETPOINT
FS	FLOW SWITCH	SS	START/STOP
FM	FLOW METER	T	TEMPERATURE
HQA	HANDS OFF AUTO	TI	TEMPERATURE INDICATOR
KW	KILOWATTS	VA	DAMPEN/VALVE ACTUATOR
LA	LEVEL ALARM	VS	VELOCITY PRESSURE
MOD	MOTOR OPERATED DAMPER	VH	VIBRATION SWITCH
NC	NORMALLY CLOSED	WC	CLOSED END SWITCH
NO	NORMALLY OPEN	ZI	POSITION INDICATOR
PS	PRESSURE SWITCH	ZO	OPEN END SWITCH

REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED. ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

SHEET INDEX

SHEET	DESCRIPTION
M0.01	GENERAL NOTES, LEGEND, ABBREVIATIONS, AND SHEET INDEX
M0.02	SCHEDULES
M0.03	SCHEDULES
M2.01A	BELOW FLOOR PLAN - AREA A
M2.01B	BELOW FLOOR PLAN - AREA B
M2.02A	FLOOR PLAN - AREA A
M2.02B	FLOOR PLAN - AREA B
M5.01	CONTROL DIAGRAMS
M5.02	CONTROL DIAGRAMS
M6.01	DETAILS
M6.02	DETAILS
M7.01	TITLE 24 FORMS

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE 2016 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
 - SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
 - WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
 - IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS / SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
 - THIS CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL NEW HVAC SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.
 - ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF RENOVATION / NEW CONSTRUCTION SHALL BEAR AN UNDERWRITERS' LABORATORIES LABEL (UL), AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
 - THIS CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION.
 - ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
 - NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
 - THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS AND ALTERATIONS.
 - THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF HVAC SYSTEMS, MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE OWNERS REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.
 - THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
 - BEFORE COMMENCEMENT OF WORK, THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.
 - CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
 - EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.
 - GALVANIZED SHEET METAL SHALL BE PROVIDED FOR ALL HVAC DUCT SYSTEMS, AND CONSTRUCTED / SUPPORTED / INSTALLED IN ACCORDANCE WITH THE 2016 CALIFORNIA MECHANICAL CODE AND THE LATEST SMACNA STANDARDS.
 - ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT WORKMANSHIP-LIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.
 - THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR FIXTURES, DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT. IN ORDER TO COMPLY WITH SEISMIC REQUIREMENTS AS OUTLINED BY THE LATEST EDITIONS OF THE CALIFORNIA BUILDING CODE, SMACNA INSTALLATION STANDARDS, AND ALL RELATED LOCAL ORDINANCES.
 - PIPING AND DUCT SUPPORTS SHALL BE AS FOLLOWS:
 - ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES, OR AS DETAILED AND SPECIFIED HEREIN.
 - WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER.
 - A COPY OF THE GUIDELINES PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
 - THIS CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM A DESIGNATED STRUCTURAL ENGINEER AND THE OWNER.
 - ALL PIPE ELBOWS SHALL BE LONG RADIUS UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS.
 - ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE WORK.
 - INSTALL MANUAL VOLUME DAMPERS WITHIN DUCT BRANCHES TO BALANCE AIR FLOW CFM. ON INSULATED DUCTS, MOUNT DAMPER REGULATOR ON 2" STAND-OFF BRACKET TO CLEAR INSULATION.
 - PER 2016 CMC 608.1 AUTOMATIC SHUT OFF OF AIR HANDLER SHALL BE DONE UPON THE DETECTION OF SMOKE IN THE MAIN SUPPLY AIR DUCT SERVED BY THE AIR HANDLER.
 - ALL MATERIAL EXPOSED WITHIN RA PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND SMOKE DEVELOPED INDEX NOT GREATER THAN 50. COMPLY WITH CMC-602.2.
 - 2016 CBC MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:
 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
 - COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8.3, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1.24, 1.25, 1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

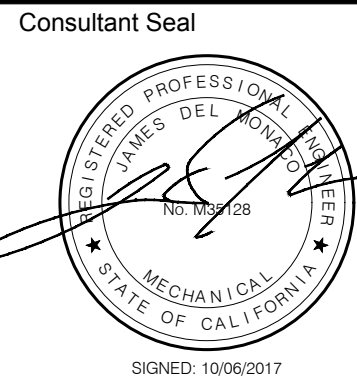
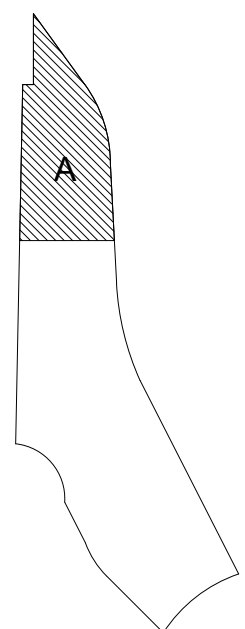
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

HMC Architects

3546 Concourse Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

(SM)

Key Plan



Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS. _____ FLS. _____ SSS. _____
DATE _____

Project Title

Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title

General Notes, Legend, Abbreviations, and Sheet Index

Architect's Seal

Designed: JDM Project No. 5015019-102

Drawn: MU Scale: Not To Scale

QA/QC: NB Drawing No. **M0.01**

Date: 10/13/2017

PLEASE RECYCLE

DSA SUBMITTAL

AIR HANDLING UNIT

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	DX COOLING COIL															INDIRECT GAS SECTION			FILTERS		ELECTRICAL					OPERATING WEIGHT (LBS.)	ANCHORAGE/ BRACING DETAIL	ACCESSORIES		REMARKS							
					TOTAL CFM	FAN CLASS	TSP IN WC	ESP IN WC	RPM	MOTOR			FV FPM	AMBIENT °F	TOTAL MBH	SENS MBH	REFRIGERANT TYPE	AIR SIDE			EFFICIENCY	COIL DESCRIPTION													INPU	OUTPU	EAT/LAT °F				
										BHP	HP	RPM						EAT °F DB	LAT °F WB	ΔP IN. WC		FACE AREA (SF)	ROWS / FPI																		
AHU-1	DAIKIN DP3020A	ON GRADE	100% OSA	CHEM. LAB/ CHEM. STORAGE	5,880	II	3.5	2	2,111	5.53	10	-	260	96	258	258	R410	96	68	53.4	52.7	0.21	10.1	1	21.4	4 / 15	450	360	30/90	LIFT OUT	9 / 18 x 24 x 2	MERV 8	460/3	46.1	53.6	80	3,751	1/M6.01	A	B	D
AHU-2	DAIKIN DP3004A	ON GRADE	100% OSA	CHEM. PREP	1,050	II	2.3	2	2,219	0.64	1.3	-	207	96	47	47	R410	96	68	52.9	52.5	0.16	11.8	1	4.8	4 / 16	80	64	30/90	LIFT OUT	4 / 16 x 16 x 2	MERV 8	460/3	6.3	7.4	15	1,294	1/M6.01	C		D
AHU-3	DAIKIN DP3016A	ON GRADE	100% OSA	BIOLOGY/BIO. PREP	4,330	II	2.9	2	2,825	3.64	5	-	222	96	189	189	R410	96	68	54.8	53.3	0.16	12.3	1	18.9	4 / 16	450	360	30/90	LIFT OUT	9 / 18 x 24 x 2	MERV 8	460/3	32.4	38.1	60	3,657	1/M6.01	A	B	D

- A PROVIDE ABB ACH 550 VFD OR EQUAL WITH INTEGRAL DISCONNECT.
- B GROUNDED SHAFT, PREMIUM-EFFICIENCY INDUCTION MOTOR MOTORS.
- C EC MOTOR.
- D INSTALLATION REQUIRES A MIN. 6-INCH CONCRETE PAD.

FANS

MARK	MANUFACTURER & MODEL	FAN CLASS	LOCATION	TYPE	SERVICE	FAN			MOTOR					INLET SOUND dBA	OPERATING WEIGHT [LBS.]	ANCHORAGE/ BRACING DETAIL	ACCESSORIES	REMARKS	
						AIRFLOW CFM	ESP IN WG.	RPM	HP	BHP	VOLTS	PHASE	RPM						ENCLOSURE
EF-1	GREENHECK CSW-33-AF-41-B-70	III	ON GRADE	UTILITY CENTRIFUGAL	LAB EXHAUST	11,385	4.0	1,194	15	10.07	460	3	1,170	TEFC	80	1,530	6/M6.01	A	B C

- A BACKDRAFT DAMPER, HINGED ACCESS DOOR, EXTENDED LIFE BEARINGS, AMCA TYPE A SPARK RESISTANT CONSTRUCTION, MOTOR WEATHERHOOD COVER, BELT GUARD, HI-PRO POLYESTER COATING, DRAIN WITH PLUG, SHAFT SEALS, EXTENDED LUBRICATION LINES, FACTORY ISOLATION BASE WITH RESTRAINED SPRING MOUNTS WITH 2 INCH DEFLECTION
- B CONTROLLED BY VFD THROUGH BAS. SEE VFD SCHEDULE AND CONTROLS DETAIL 2/M5.01.
- C FAN SHALL BE DIRECT DRIVE, ARRANGEMENT B

SUPPLY AIR VALVES

MARK	MANUFACTURER & MODEL	INLET SIZE [IN.]	MAX AIRFLOW [CFM]	MIN AIRFLOW [CFM]	VALVE FAIL POSITION	FUNCTION	MATERIAL	WEIGHT [LBS.]	ANCHORAGE/ BRACING DETAIL	ACCESSORIES	REMARKS
SV-100	ACCUTROL ACCUVALVE H-AV3147-06-F	6	210	110	LAST	GENERAL SUPPLY	ALUMINUM	10	2/M6.01	B	A
SV-101A	ACCUTROL ACCUVALVE AVC5143-18-F	18 x 12	1,890	330	LAST	GENERAL SUPPLY	ALUMINUM	30	2/M6.01	B C	A
SV-101B	ACCUTROL ACCUVALVE AVC5143-18-F	18 x 12	1,890	330	LAST	GENERAL SUPPLY	ALUMINUM	30	2/M6.01	B C	A
SV-101C	ACCUTROL ACCUVALVE AVC5143-18-F	18 x 12	1,890	330	LAST	GENERAL SUPPLY	ALUMINUM	30	2/M6.01	B C	A
SV-102	ACCUTROL ACCUVALVE AVC5143-10-F	10	1,050	705	LAST	GENERAL SUPPLY	ALUMINUM	14	2/M6.01	B C	A
SV-103A	ACCUTROL ACCUVALVE H-AV3147-14-F	14	1,260	465	LAST	GENERAL SUPPLY	ALUMINUM	20	2/M6.01	B	A
SV-103B	ACCUTROL ACCUVALVE H-AV3147-14-F	14	1,260	465	LAST	GENERAL SUPPLY	ALUMINUM	20	2/M6.01	B	A
SV-103C	ACCUTROL ACCUVALVE H-AV3147-14-F	14	1,260	465	LAST	GENERAL SUPPLY	ALUMINUM	20	2/M6.01	B	A
SV-104	ACCUTROL ACCUVALVE H-AV3147-08-F	8	550	190	LAST	GENERAL SUPPLY	ALUMINUM	16	2/M6.01	B	A

- A SEE AIR BALANCE SCHEDULE FOR FULL OPERATION SETPOINTS AND ROOM BALANCING.
- B PROVIDE FACTORY INSULATION AND FLANGES.
- C PROVIDE HIGH SPEED VALVE ACTUATOR FOR FUME HOOD LAB DUTY.

EXHAUST AIR VALVES

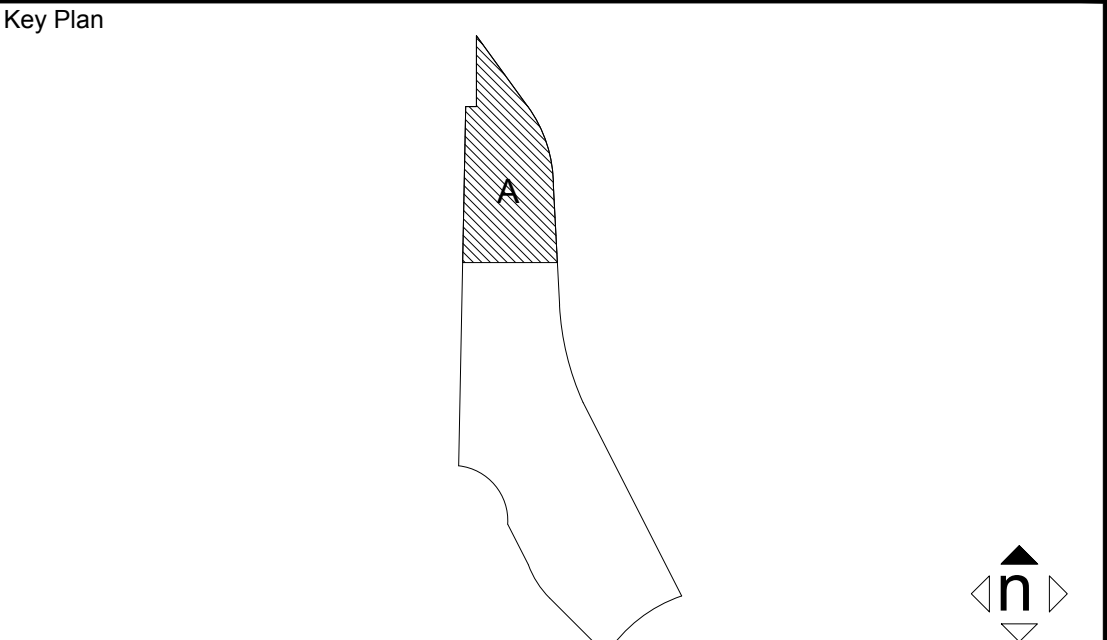
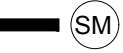
MARK	MANUFACTURER & MODEL	INLET SIZE [IN.]	MAX AIRFLOW [CFM]	MIN AIRFLOW [CFM]	VALVE FAIL POSITION	FUNCTION	MATERIAL	WEIGHT [LBS.]	ANCHORAGE/ BRACING DETAIL	ACCESSORIES	REMARKS
EV-100	ACCUTROL ACCUVALVE H-AV3147-08-F	8	310	210	LAST	LAB EXHAUST	ALUMINUM	12	2/M6.01	B	A
EV-101A	ACCUTROL ACCUVALVE AVC5143-10-F	10	726	0	LAST	LAB EXHAUST	ALUMINUM	14	2/M6.01	B	A C
EV-101B	ACCUTROL ACCUVALVE H-AV3247-36-F	36 x 12	3,750	0	LAST	BACKDRAFT TABLE EXHAUST	ALUMINUM	99	2/M6.01	B	A
EV-101-F1	ACCUTROL ACCUVALVE AVC5123-12-F	12	1100	400	LAST	FUME HOOD EX-HAUST	304SS	26	2/M6.01	B D E	A C
EV-101-F2	ACCUTROL ACCUVALVE AVC5123-12-F	12	1,100	400	LAST	FUME HOOD EX-HAUST	304SS	26	2/M6.01	B D E	A C
EV-102A	ACCUTROL ACCUVALVE AVC5143-B-F	8	550	50	LAST	LAB EXHAUST	ALUMINUM	12	2/M6.01	B	A C
EV-102B	ACCUTROL ACCUVALVE H-AV3127-06-F	6	100	100	LAST	CABINET EXHAUST	304SS	13	2/M6.01	B	A
EV-102-F	ACCUTROL ACCUVALVE AVC3123-10-F	10	800	300	LAST	FUME HOOD EX-HAUST	304SS	20	2/M6.01	B D E	A C
EV-103A	ACCUTROL ACCUVALVE H-AV3147-14-F	14	1,550	1,040	LAST	LAB EXHAUST	ALUMINUM	20	2/M6.01	B	A
EV-103B	ACCUTROL ACCUVALVE H-AV3247-18-F	18 x 12	1,875	0	LAST	BACKDRAFT TABLE EXHAUST	ALUMINUM	26	2/M6.01	B	A
EV-104A	ACCUTROL ACCUVALVE H-AV3147-08-F	8	500	140	LAST	LAB EXHAUST	ALUMINUM	12	2/M6.01	B	A
EV-104B	ACCUTROL ACCUVALVE H-AV3127-06-F	6	150	150	LAST	CABINET EXHAUST	304SS	13	2/M6.01	B	A
EV-105	ACCUTROL ACCUVALVE H-AV3147-06-F	6	100	100	LAST	LAB EXHAUST	ALUMINUM	9	2/M6.01	B	A

- A SEE AIR BALANCE SCHEDULE FOR FULL OPERATION SETPOINTS AND ROOM BALANCING.
- B PROVIDE WITH FLANGES.
- C PROVIDE HIGH SPEED VALVE ACTUATOR FOR FUME HOOD LAB DUTY.
- D AFC5000 FUME HOOD CONTROLLER, VERTICAL SASH POSITION SENSOR.
- E PROVIDE ZONE PRESENCE SENSOR ACCESSORY FOR FUME HOODS WHICH DRIVE THE ROOM MINIMUM ACH RATE.

FIELD-MOUNTED VARIABLE FREQUENCY DRIVES

MARK	MANUFACTURER & MODEL	LOCATION	ENCLOSURE	SERVICE	ELECTRICAL				OPERATING WEIGHT LBS.	ANCHORAGE/ BRACING DETAIL	ACCESSORIES	REMARKS
					MOTOR HP	VFD HP	VOLTAGE	PH				
VFD-EF-1	ABB ACH 550	EXT. WALL	NEMA 3R	EF-1	15	15	460	3	194	4/M6.02	A	-

- A BACNET COMMUNICATIONS CARD, NEMA 3R ENCLOSURE WITH FAN, THERMOSTAT, AND HEATER. FURNISH WITH CIRCUIT BREAKER AND LOCKABLE HANDLE.



Consultant Seal

Agency Approval

FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS. _____ FLS. _____ SSS. _____

DATE _____

Project Title

Palomar North Education Center - Interim Village

Palomar College
Learning for Success

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
Schedules

Architect's Seal

Designed: JDM

Drawn: MU

QA/QC: NB

Date: 10/13/2017

Project No. 5015019-102

Scale: Not To Scale

Drawing No. **M0.02**

ROOM AIRFLOW BALANCE SCHEDULE

AHU	ROOM NUMBER	AREA [SF]	HEIGHT [FT]	SPACE USE	OCCUPIED MIN. ACH	UNOCCUPIED MIN. ACH	TERMINAL UNIT		SUPPLY AIRFLOW [CFM]			EXHAUST AIRFLOW [CFM]				REMARKS
							SA TAG	EA TAG	OCC. MIN.	UNOCC. MIN.	SA CLG MAX	OCC. MIN. EA	UNOCC. MIN. EA	MAX. EA	(SA - EA) AIRFLOW OFFSET	
1	-	309	10	STORAGE/BALANCE RM.	6	4	SV-100	EV-100	210	110	210	310	210	310	-100	
1	-	1,526	10	CHEMISTRY LAB	6	4	SV-101	EV-101A	1,250	990	5,670	730	470	0	+280	A
								EV-101B				0	0	3,750		
								EV-101-F1				400	400	1,100		
								EV-101-F2				400	400	1,100		
2	-	908	10	CHEMISTRY PREP	6	4	SV-102	EV-102A	1,050	705	1,050	550	205	50	+100	A
								EV-102B				100	100	100		
								EV-102-F				300	300	800		
								EV-103A				1,550	1,040	1,550		
3	-	1,550	10	BIOLOGY	6	4	SV-103	EV-103B	1,905	1,395	3,780	0	0	1,875	+355	
3	-	200	10	BIOLOGY STORAGE	15	4	SV-104	EV-103A	550	190	550	500	140	500	-100	
								EV-103B				150	150	150		
3	-	90	10	ASTRO STORAGE	6	6	N/A	EV-104	-	-	-	100	100	100	-100	

A CONTRACTOR SHALL HIRE A QUALIFIED TESTING AGENT TO PERFORM ASHRAE STANDARD 110 TESTING FOR ALL FUME HOODS WITHIN THIS ROOM AND COORDINATE WITH PALOMAR COLLEGE ENVIRONMENTAL HEALTH AND SAFETY REPRESENTATIVE TO PROVIDE RESULTS OF THE TESTING TO THE COLLEGE.

GRILLES, REGISTERS, DIFFUSERS

MARK	MANUFACTURER & MODEL	DESCRIPTION	NOMINAL SIZE [IN.]	INLET SIZE [IN.]	MATERIAL	BORDER	DAMPER	FINISH	REMARKS
CSP-1	PRICE PDSP	PERFORATED SUPPLY	24x24	8	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CSP-2	PRICE PDSP	PERFORATED SUPPLY	24x24	10	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CSP-3	PRICE PDSP	PERFORATED SUPPLY	24x24	12	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CSP-4	PRICE PDSP	PERFORATED SUPPLY	24x24	14	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CSR-1	PRICE RFD	RADIAL FLOW SUPPLY	24x24	8	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CSR-2	PRICE RFD	RADIAL FLOW SUPPLY	24x48	12	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CRP-1	PRICE PDDR	PERFORATED RETURN	24x24	15x15	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CRP-2	PRICE PDDR	PERFORATED RETURN	24x24	22x22	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CEP-1	PRICE PDDR	PERFORATED EXHAUST	24x24	8	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CEP-2	PRICE PDDR	PERFORATED EXHAUST	24x24	10	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CEP-3	PRICE PDDR	PERFORATED EXHAUST	24x24	12	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CEP-4	PRICE PDDR	PERFORATED EXHAUST	24x24	14	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
CEP-5	PRICE PDDR	PERFORATED EXHAUST	24x24	15	ALUMINUM	-	NONE	MATCH ARCHITECTURAL CEILING	-
EG-1	PRICE 730H	LOUVERED EXHAUST	8x8	8x8	304 SS	MOUNT IN DOWNDRAFT TABLES	NONE	MATCH TABLES	-

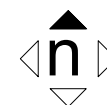
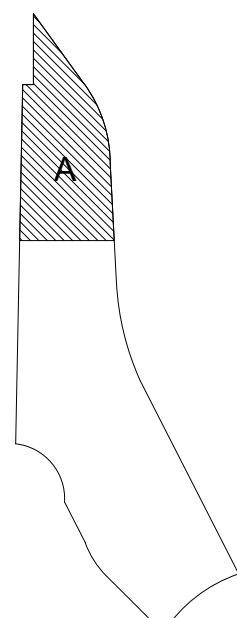
DAMPER

MARK	MANUFACTURER & MODEL	LOCATION	BLADE PROFILE	EQUIPMENT SERVED	FUNCTION	SIZE		DESIGN AIRFLOW [CFM]	DESIGN PRESSURE DROP [IN. W.C.]	ACCESSORIES	REMARKS
						WIDTH [IN.]	HEIGHT [IN.]				
BD-EF-1	GREENHECK VCD-40	GROUND LEVEL	AIRFOIL	EF-1	BYPASS	48	26	7,870	0.15	-	A

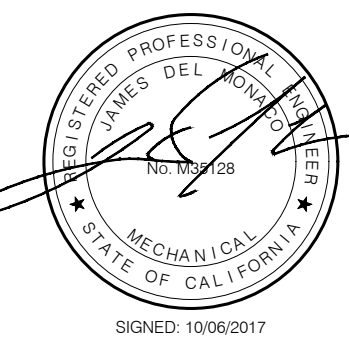
A PROVIDE BELIMO ACTUATOR AND EXTERNAL ACTUATOR MOUNT.

SM

Key Plan



Consultant Seal



Agency Approval

FILE NO. 37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116582
ACS. FLS. SSS.
DATE

Project Title



Palomar North Education Center - Interim Village

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
DSA SUBMITTAL - PHASE IV		10/13/2017

Drawing Title

Schedules

Architect's Seal



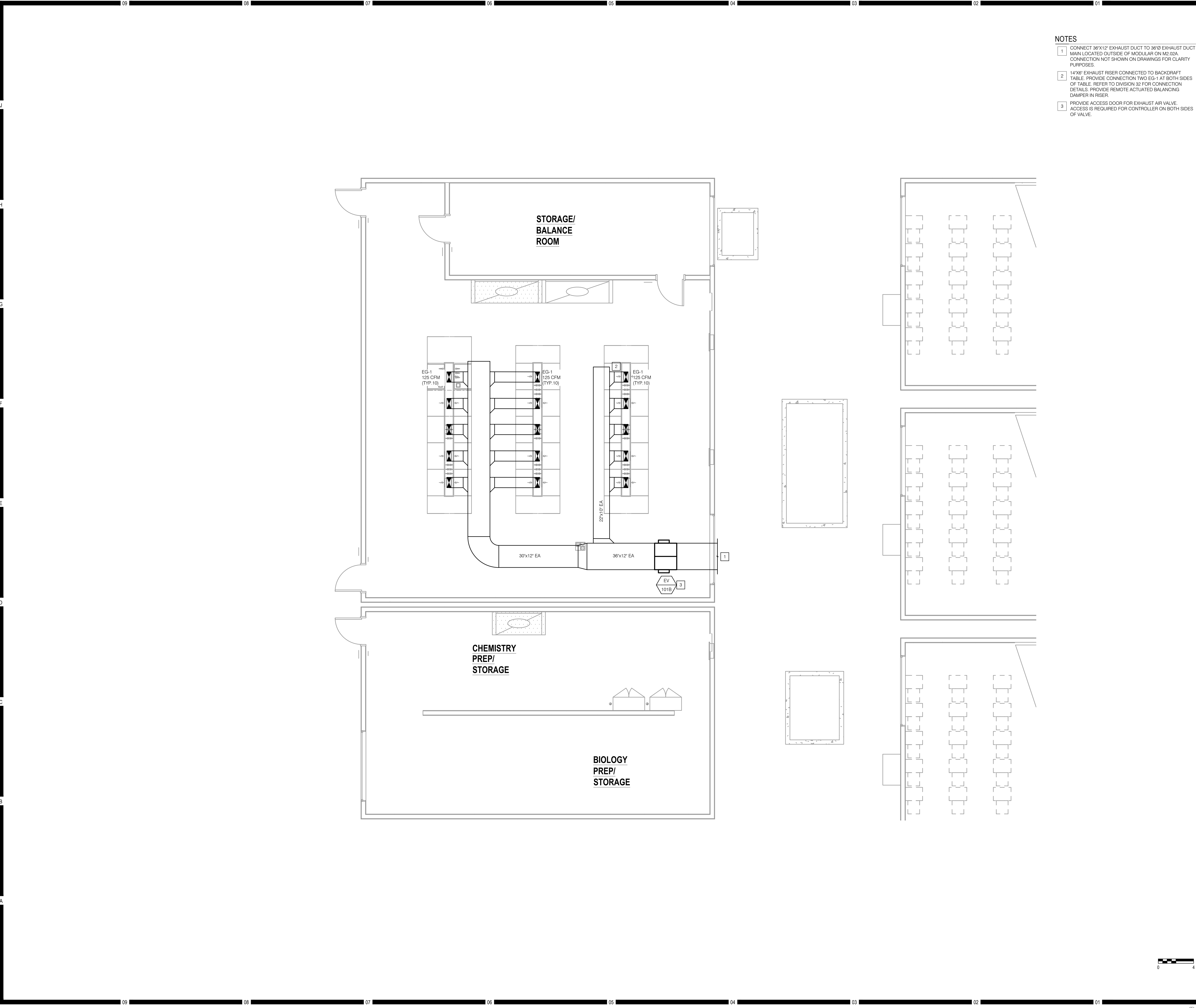
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Drawn: MU Scale: Not To Scale

QAQC: NB Drawing No.

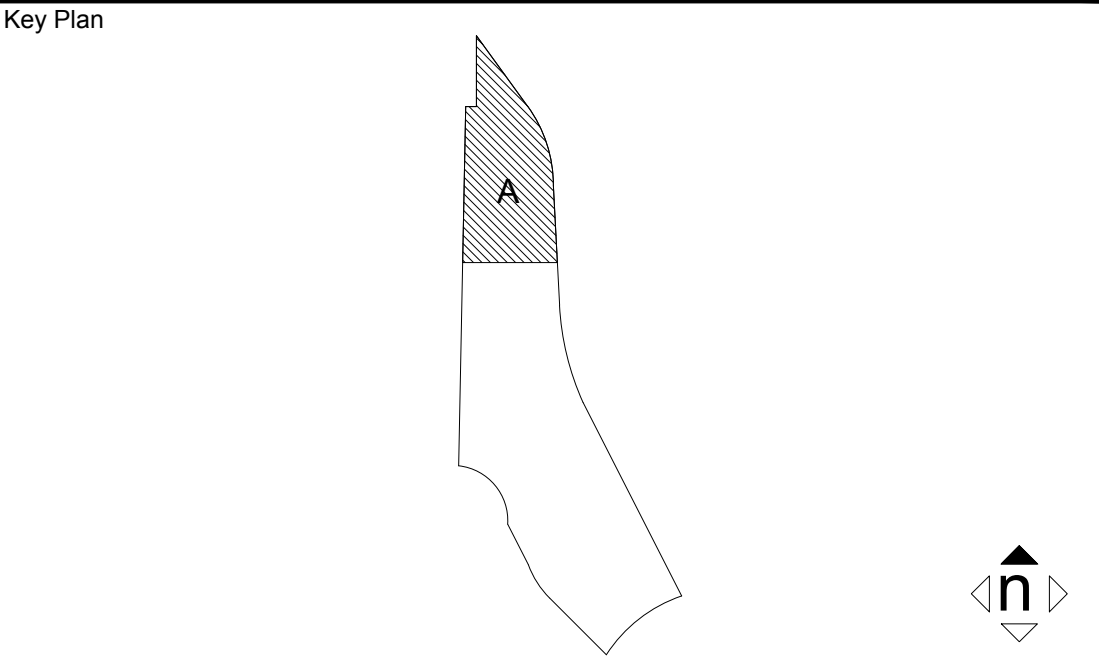
Date: 10/13/2017

M0.03



- NOTES
- 1. CONNECT 36"x12" EXHAUST DUCT TO 36"Ø EXHAUST DUCT MAIN LOCATED OUTSIDE OF MODULAR ON M2.02A. CONNECTION NOT SHOWN ON DRAWINGS FOR CLARITY PURPOSES.
 - 2. 14"x6" EXHAUST RISER CONNECTED TO BACKDRAFT TABLE. PROVIDE CONNECTION TWO EG-1 AT BOTH SIDES OF TABLE. REFER TO DIVISION 32 FOR CONNECTION DETAILS. PROVIDE REMOTE ACTUATED BALANCING DAMPER IN RISER.
 - 3. PROVIDE ACCESS DOOR FOR EXHAUST AIR VALVE. ACCESS IS REQUIRED FOR CONTROLLER ON BOTH SIDES OF VALVE.

(SM)



Consultant Seal

Agency Approval

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DATE

Project Title

Palomar North Education Center - Interim Village

PALOMAR COLLEGE

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

Below Floor Plan - Area A

Architect's Seal

Designed: JDM

Drawn: MU

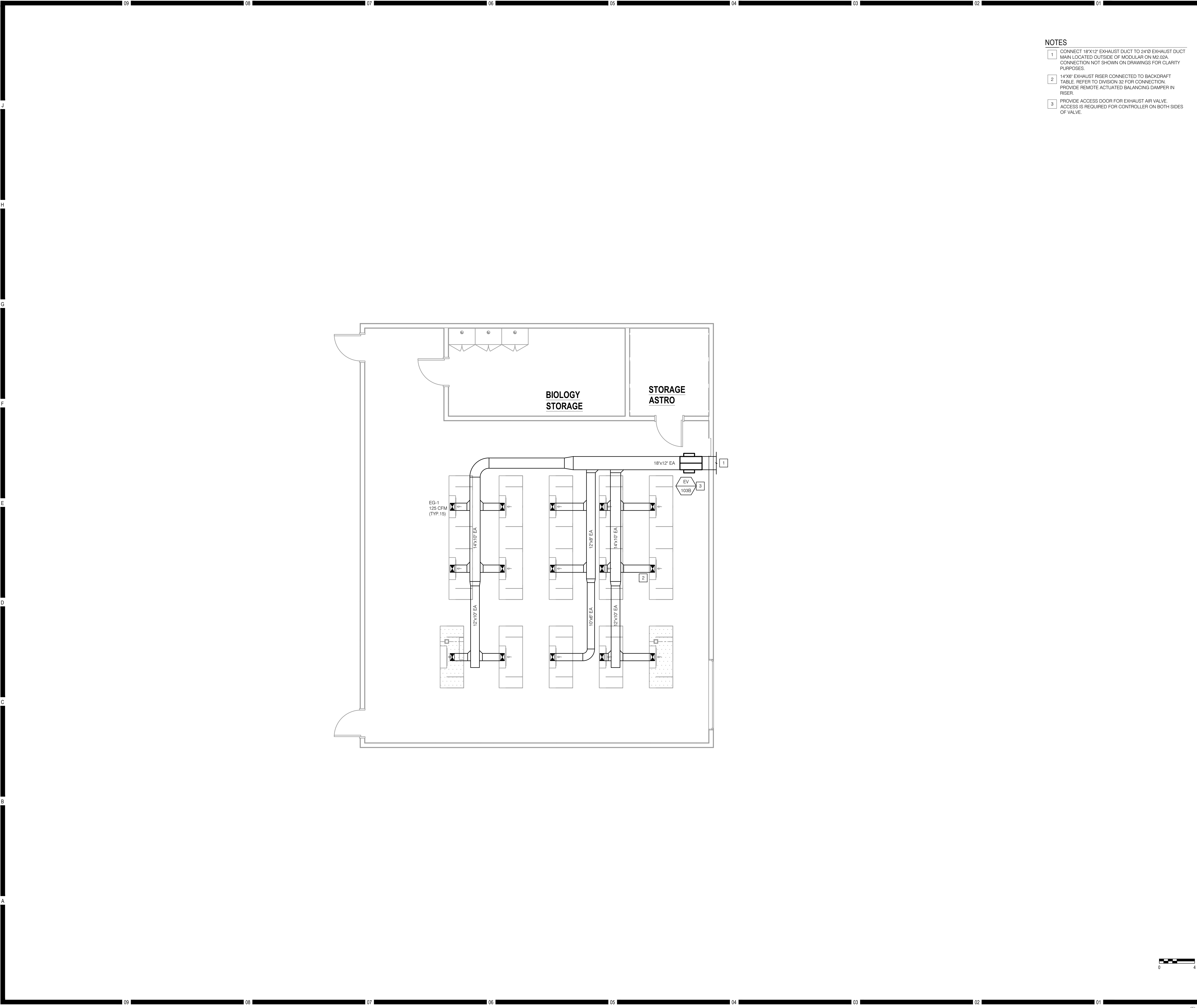
QAQC: NB

Date: 10/13/2017

Project No. 5015019-102

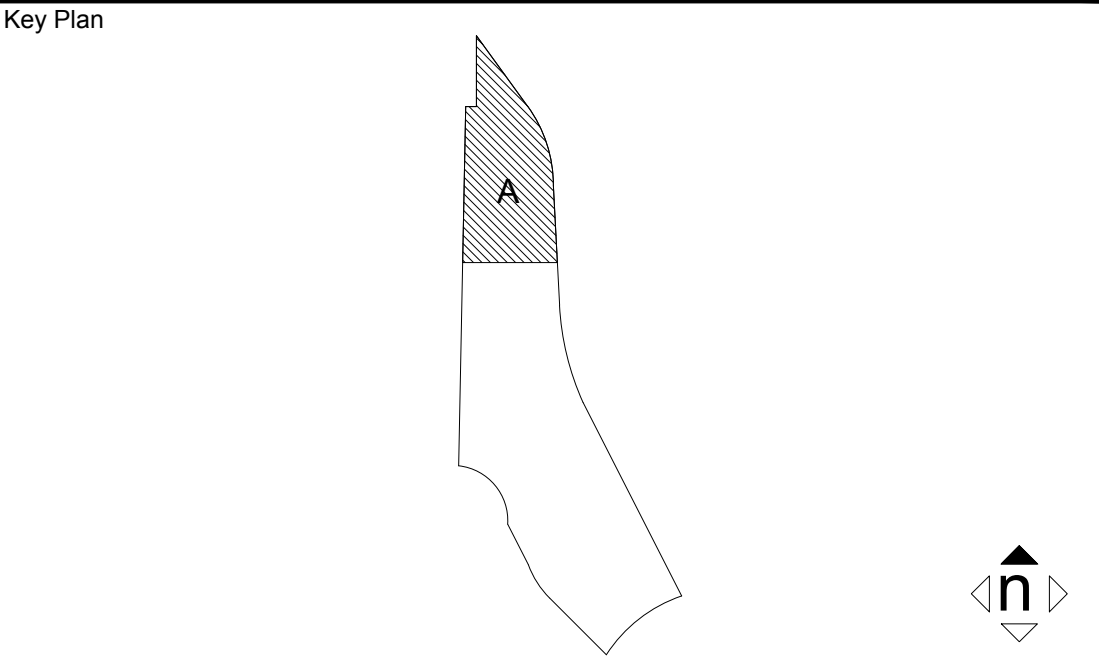
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Drawing No. **M2.01A**



- NOTES
- 1 CONNECT 18"x12" EXHAUST DUCT TO 24"Ø EXHAUST DUCT MAIN LOCATED OUTSIDE OF MODULAR ON M2.02A. CONNECTION NOT SHOWN ON DRAWINGS FOR CLARITY PURPOSES.
 - 2 14"x6" EXHAUST RISER CONNECTED TO BACKDRAFT TABLE. REFER TO DIVISION 32 FOR CONNECTION. PROVIDE REMOTE ACTUATED BALANCING DAMPER IN RISER.
 - 3 PROVIDE ACCESS DOOR FOR EXHAUST AIR VALVE. ACCESS IS REQUIRED FOR CONTROLLER ON BOTH SIDES OF VALVE.

SM



Consultant Seal

Agency Approval

FILE NO. 37-C1

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ACS. FLS. SSS.

DATE

Project Title

PALOMAR COLLEGE

Learning for Success

Palomar North Education Center - Interim Village

35090 Horse Ranch Creek Road

Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
Below Floor Plan - Area B

Architect's Seal

Designed: JDM

Drawn: MU

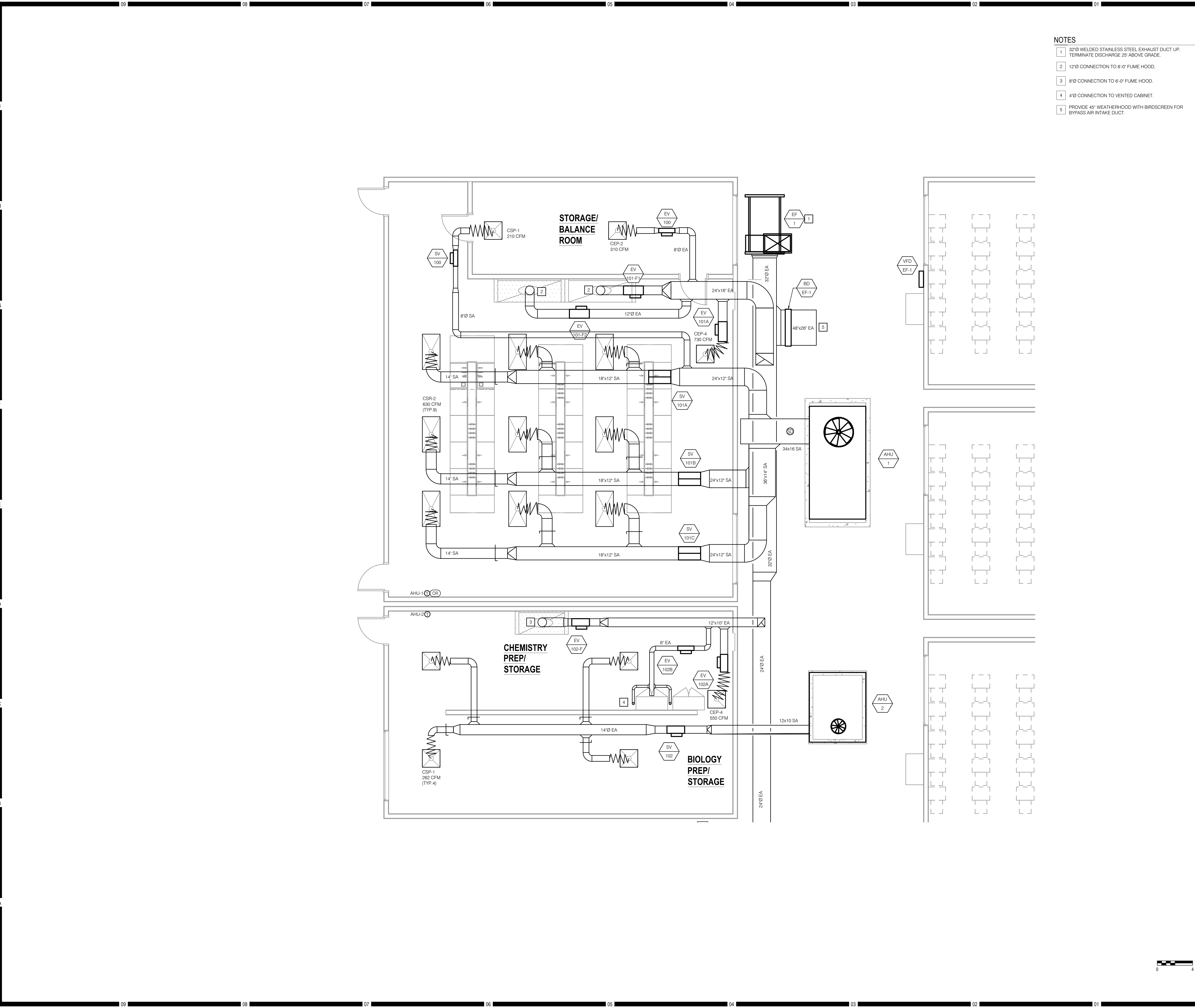
QAQC: NB

Date: 10/13/2017

Project No. 5015019-102

Scale: 1/4"=1'-0"

Drawing No. M2.01B



- NOTES
- 32"Ø WELDED STAINLESS STEEL EXHAUST DUCT UP. TERMINATE DISCHARGE 20' ABOVE GRADE.
 - 12"Ø CONNECTION TO 8'-0" FUME HOOD.
 - 8"Ø CONNECTION TO 6'-0" FUME HOOD.
 - 4"Ø CONNECTION TO VENTED CABINET.
 - PROVIDE 45" WEATHERHOOD WITH BIRDSCREEN FOR BYPASS AIR INTAKE DUCT.

(SM)

Key Plan



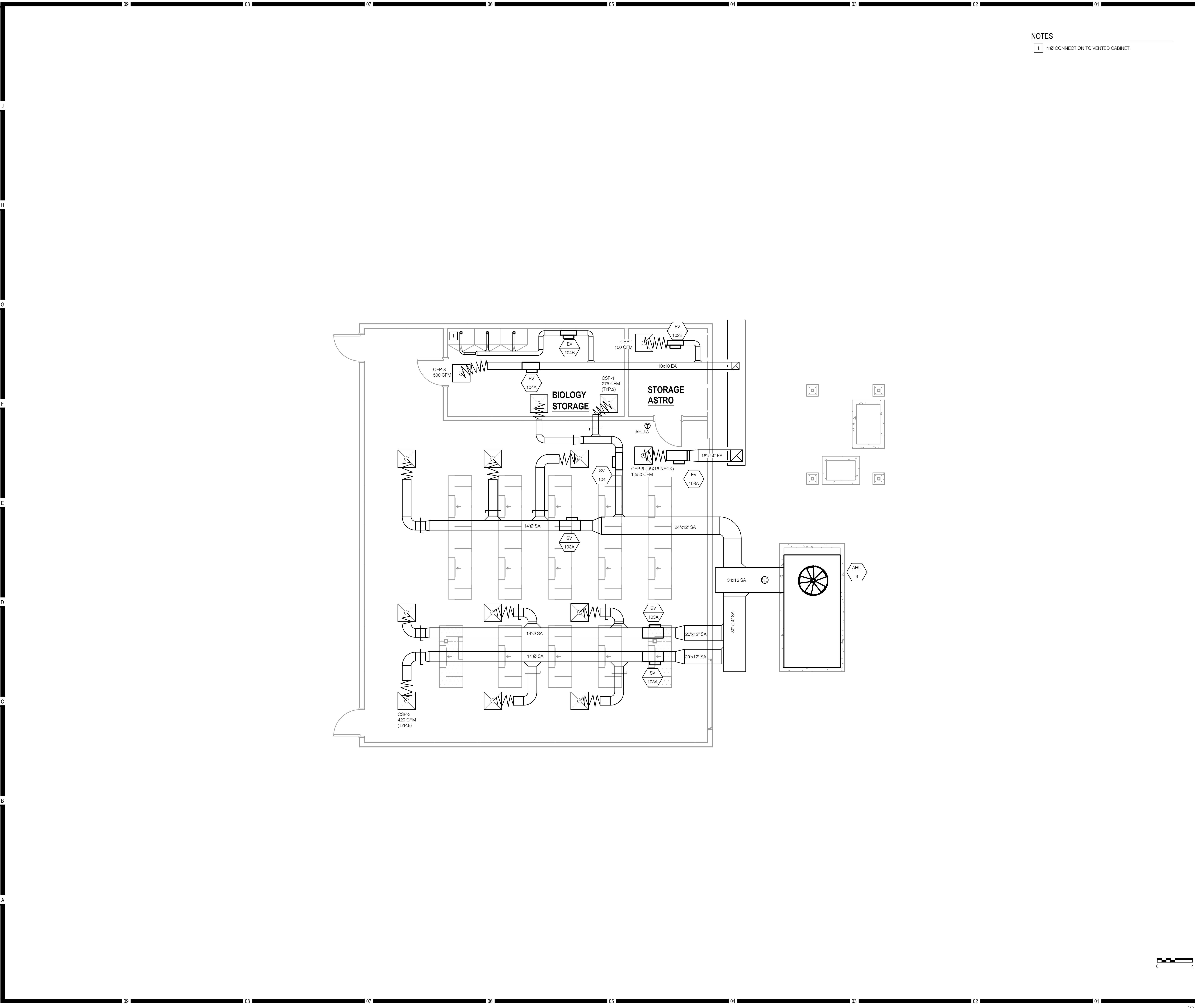
Agency Approval
IDENTIFICATION STAMP
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APPL. 04-116582
ACS. FLS. SSS.
DATE

Project Title
Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title
Floor Plan - Area A

Architect's Seal MICHAEL J. HMC NO. C-32437 STATE OF CALIFORNIA EXPIRATION DATE 02-28-19	Designed: JDM	Project No. 5015019-102
	Drawn: MU	Scale: 1/4"=1'-0"
	QA/QC: NB	Drawing No. M2.02A
	Date: 10/13/2017	



NOTES

- 1 4"Ø CONNECTION TO VENTED CABINET.

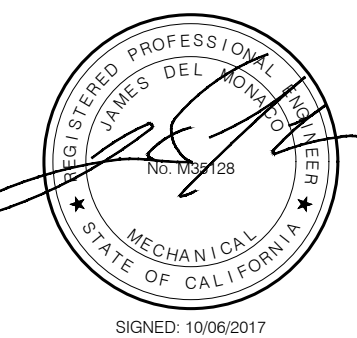
HMC Architects

3546 Concourse Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

SM

Key Plan

Consultant Seal



Agency Approval

FILE NO. 37-C1

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DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS. FLS. SSS. DATE

Project Title



Palomar North Education Center - Interim Village

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
DSA SUBMITTAL - PHASE IV		10/13/2017

Drawing Title:
Floor Plan - Area B

Architect's Seal



Designed: JDM

Project No. 5015019-102

Drawn: MU

Scale: 1/4"=1'-0"

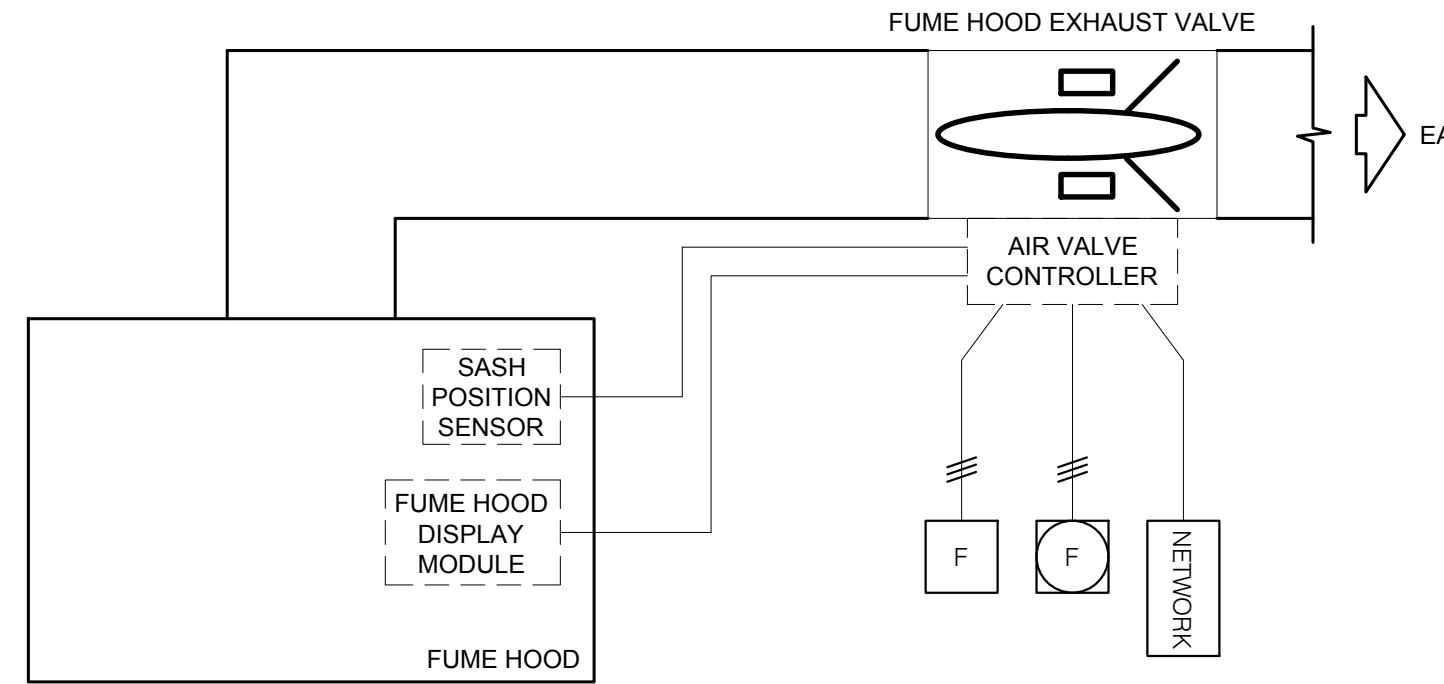
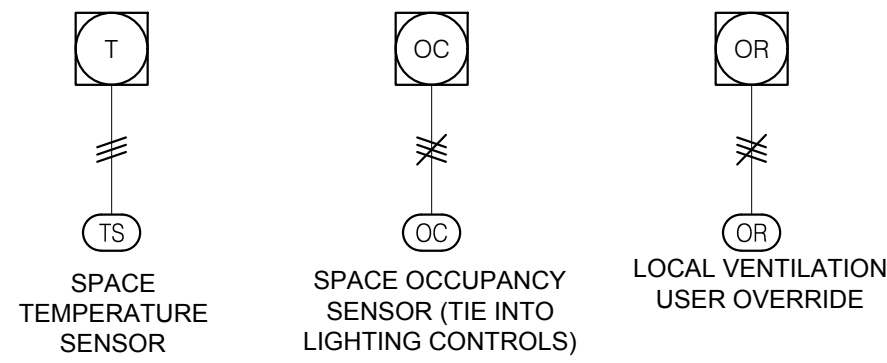
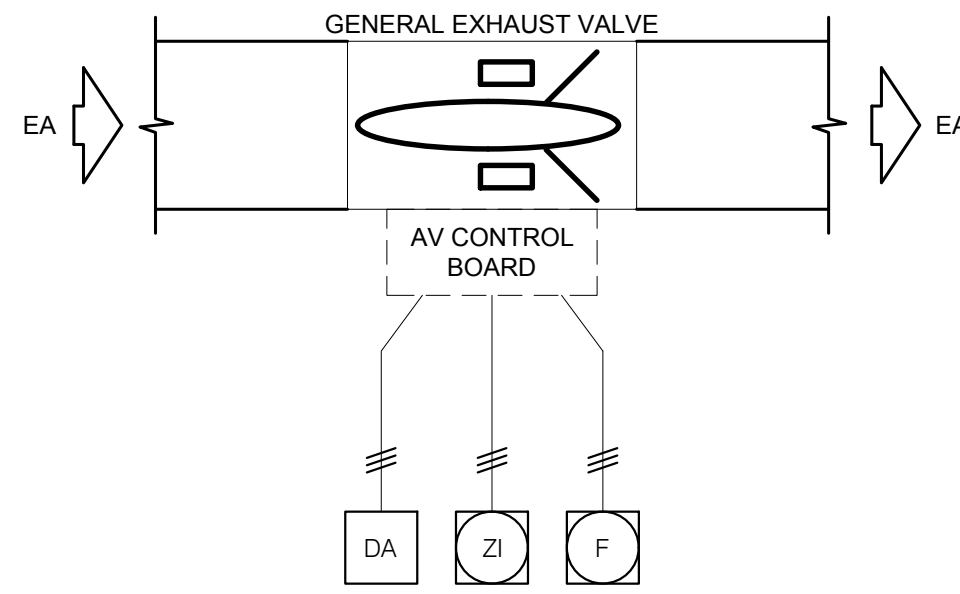
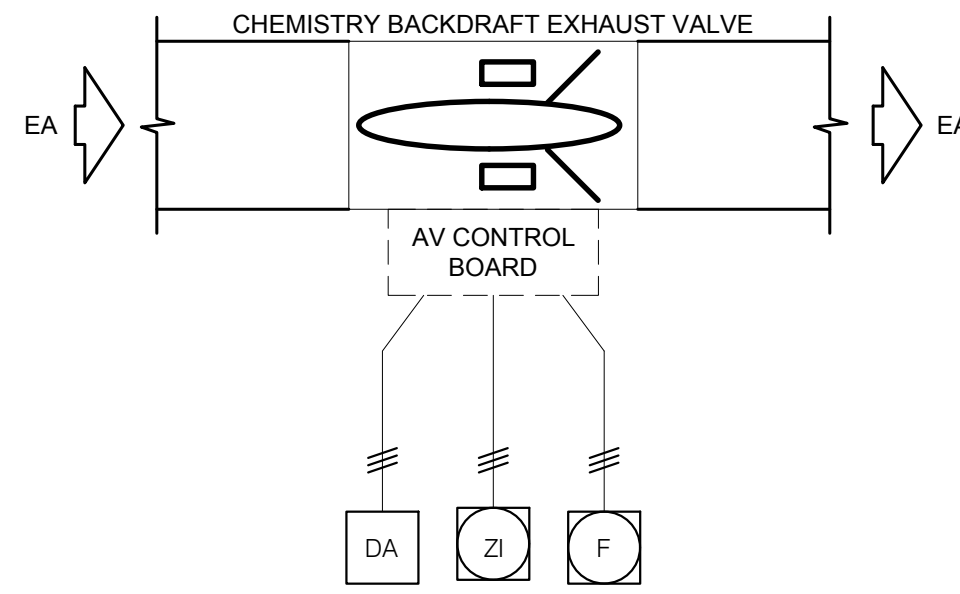
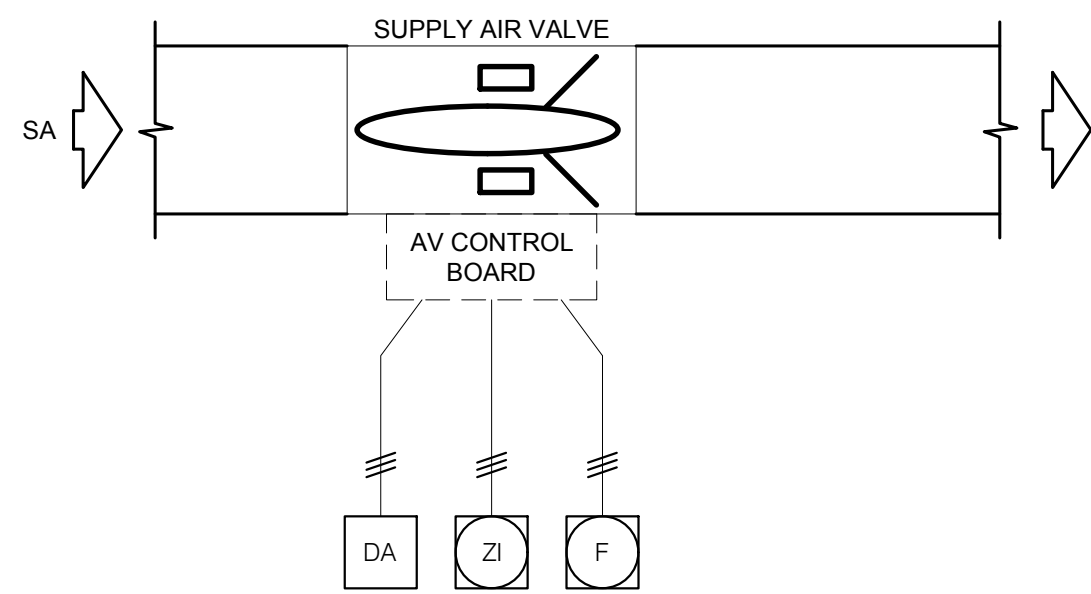
QAQC NB

Drawing No.

Date: 10/13/2017

M2.02B

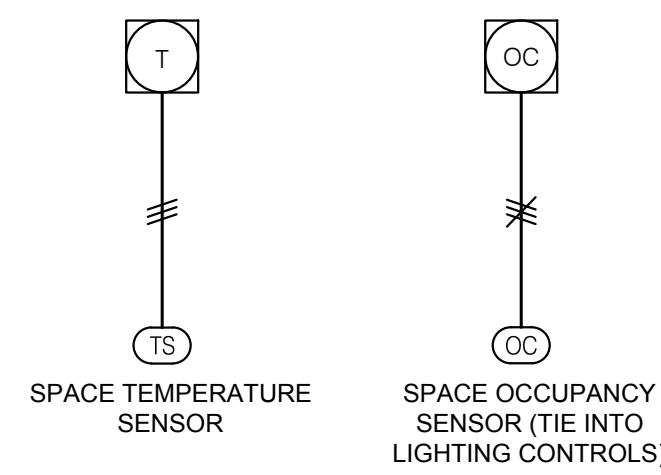
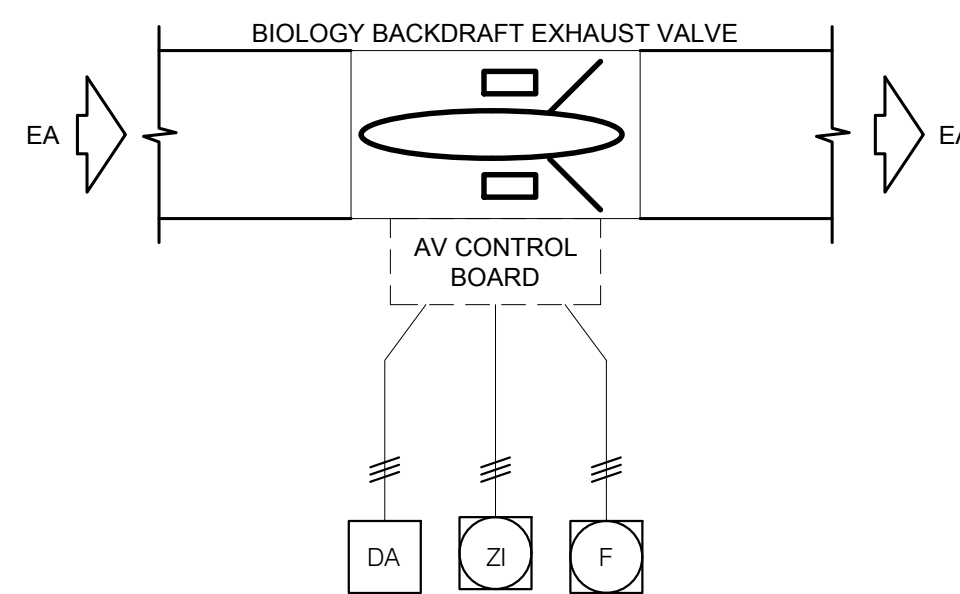
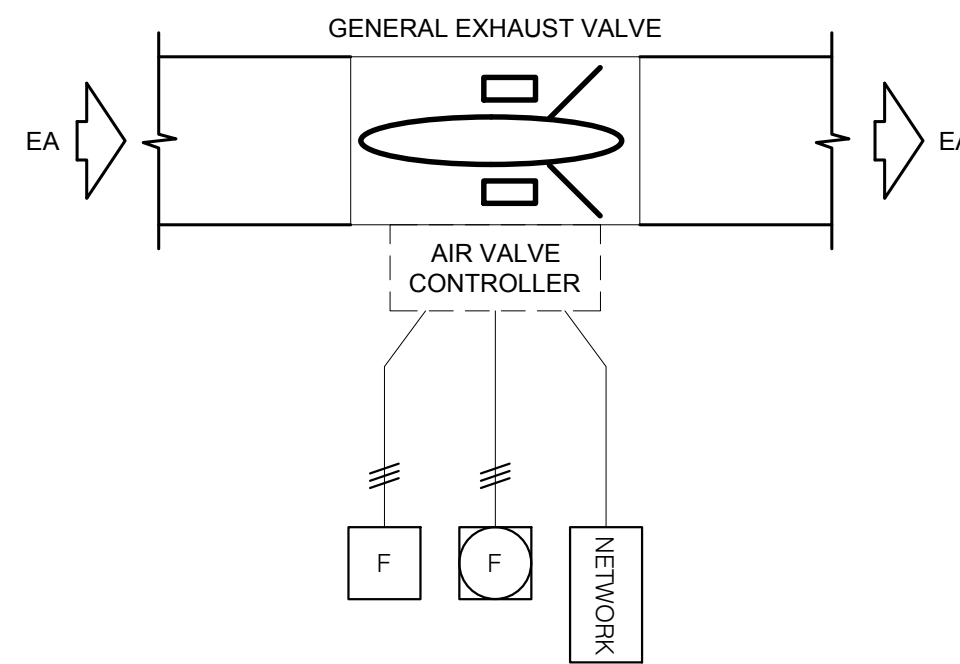
- NOTES
- SEE FLOOR PLANS FOR LOCATION OF TEMPERATURE, OCCUPANCY AND OVERRIDE SENSORS.
 - SEE FLOOR PLANS FOR QUANTITY OF SUPPLY AIR VALVES AND EXHAUST VALVES



1 CHEMISTRY LAB

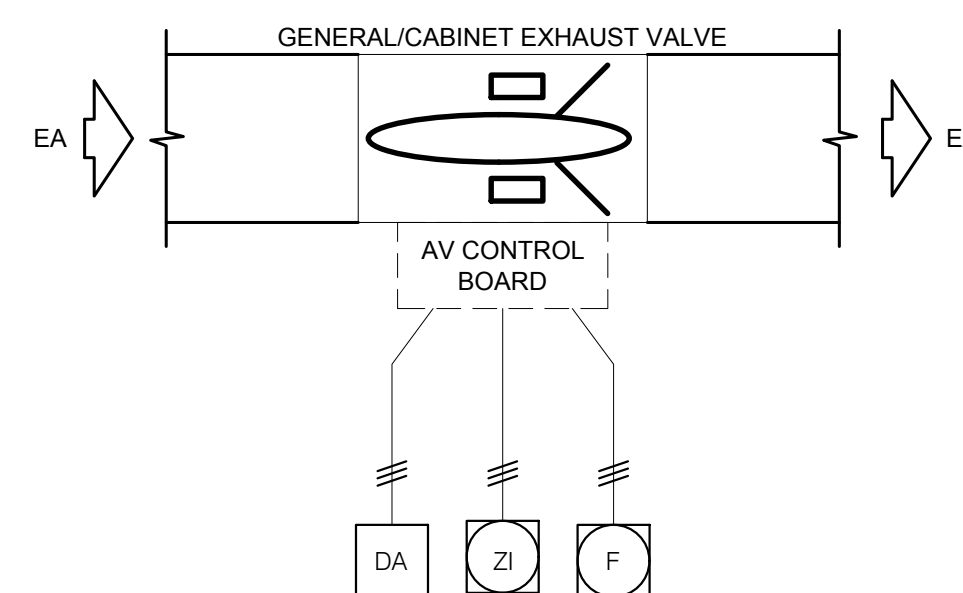
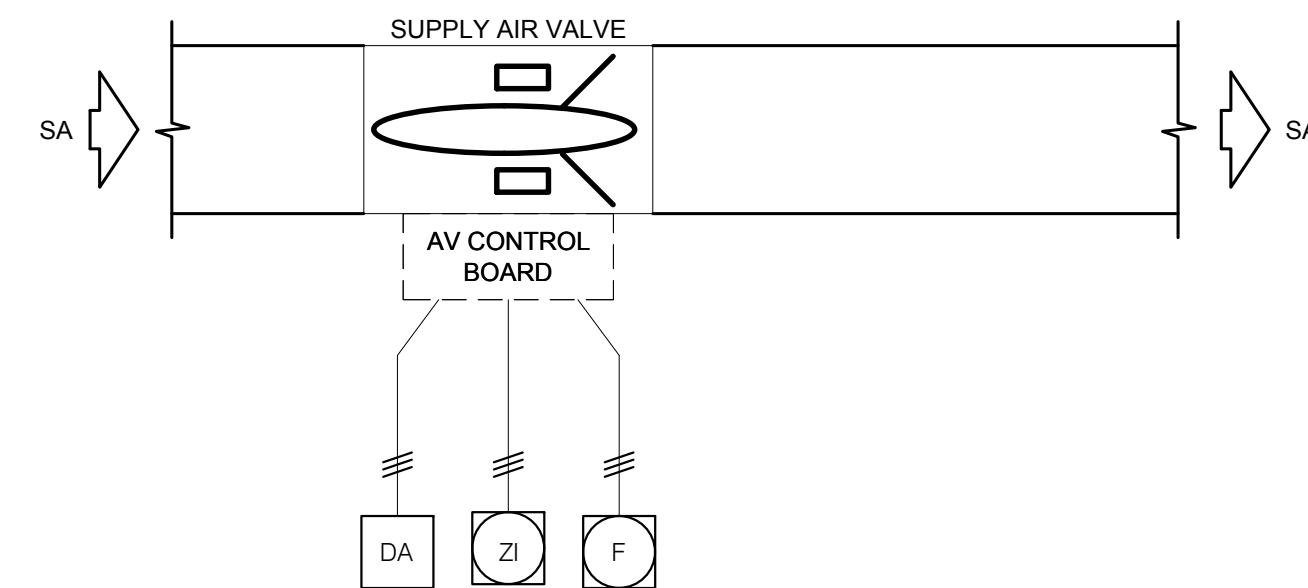
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- NOTES
- SEE FLOOR PLANS FOR LOCATION OF TEMPERATURE AND OCCUPANCY SENSORS.
 - SEE FLOOR PLANS FOR QUANTITY OF SUPPLY AIR VALVES AND EXHAUST VALVES



3 BIOLOGY LAB

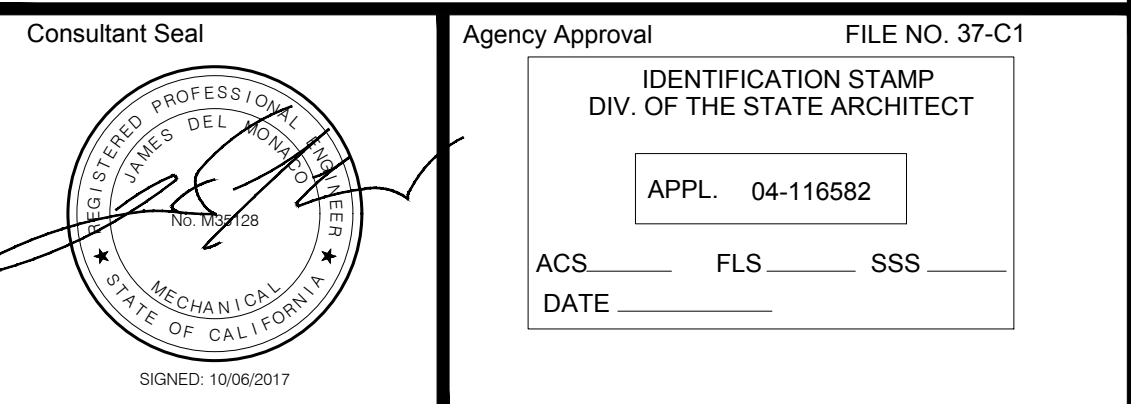
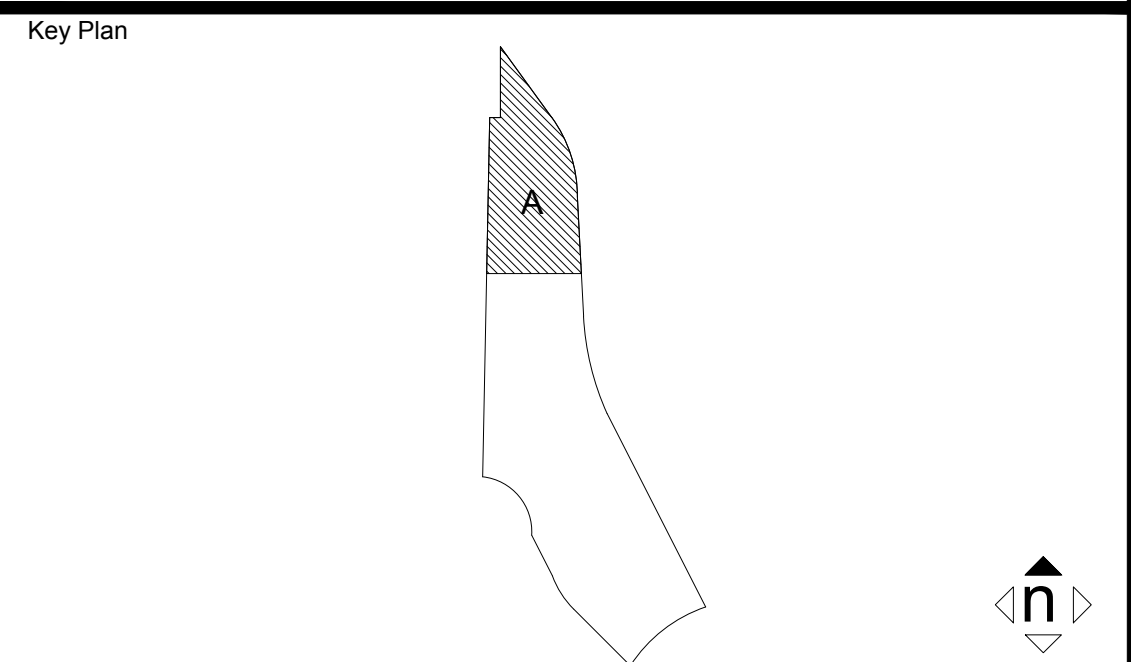
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2 STORAGE/BALANCE ROOM

NO SCALE

(SM)



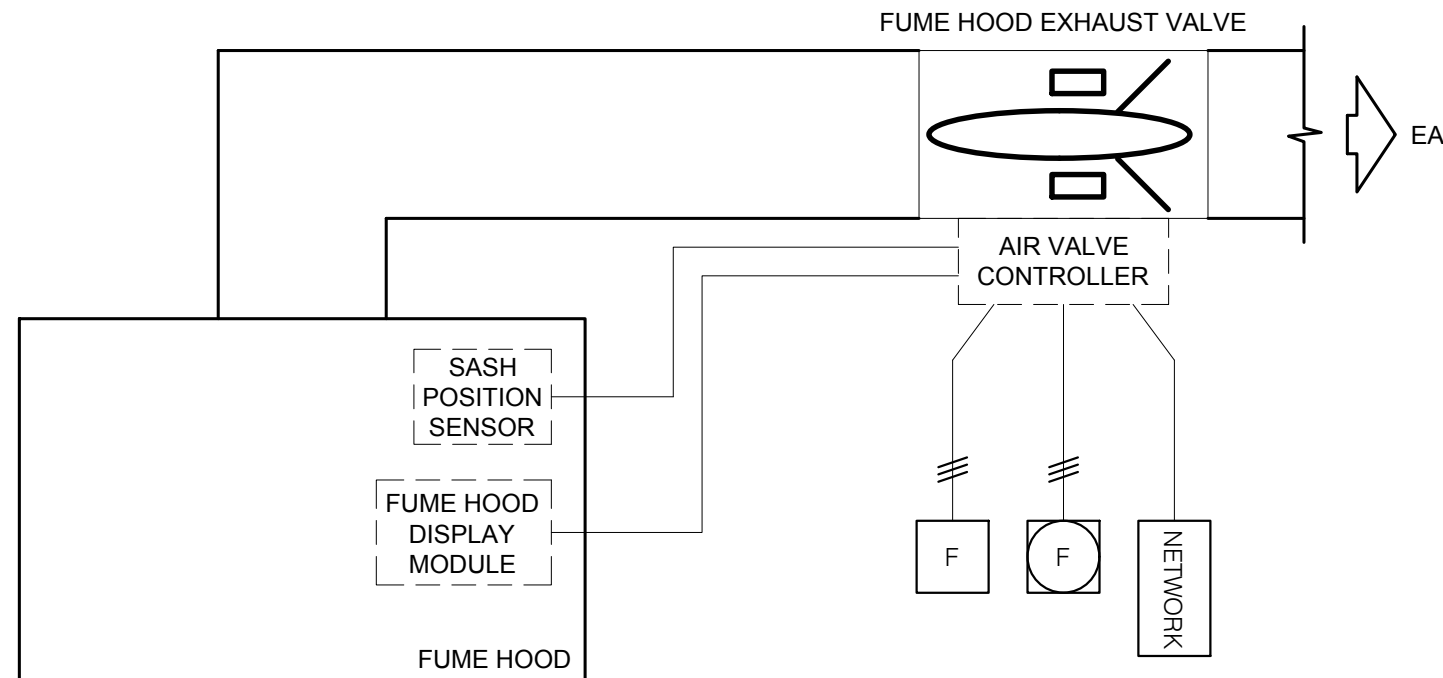
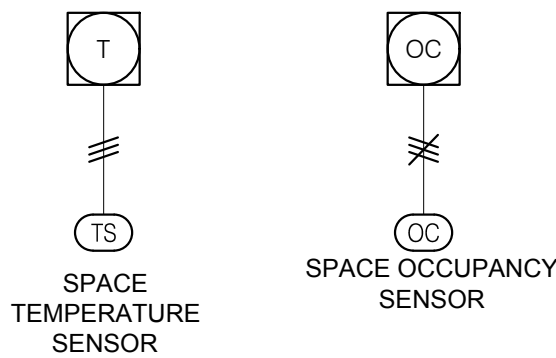
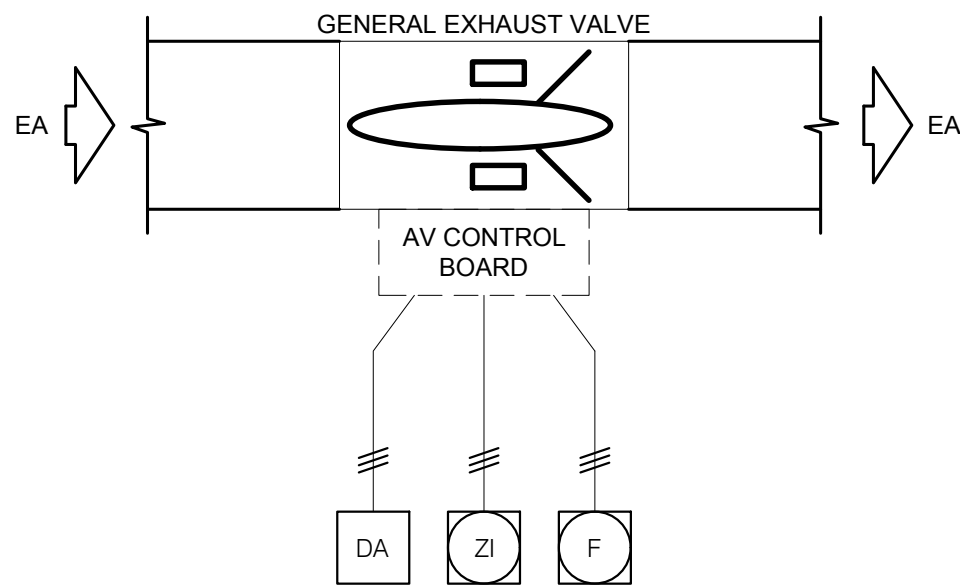
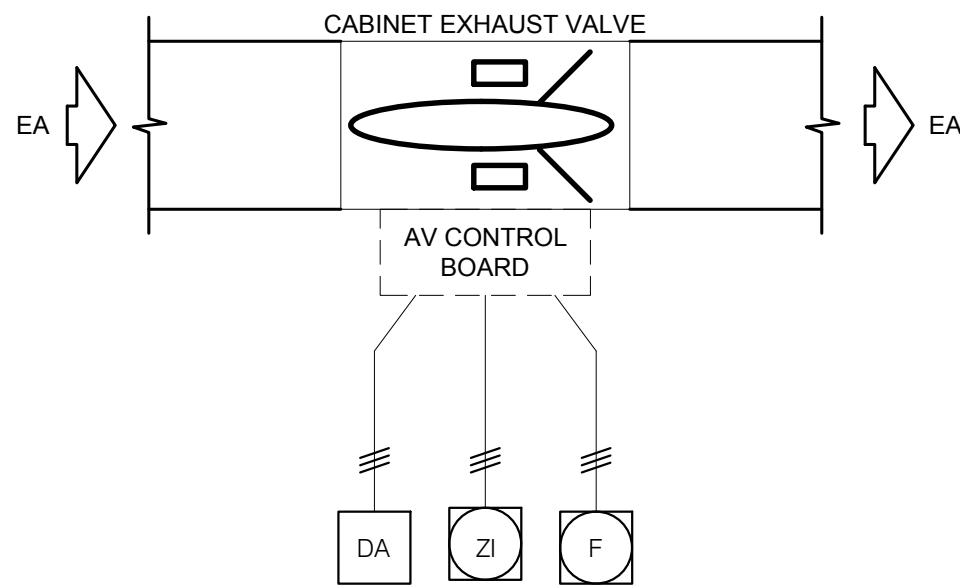
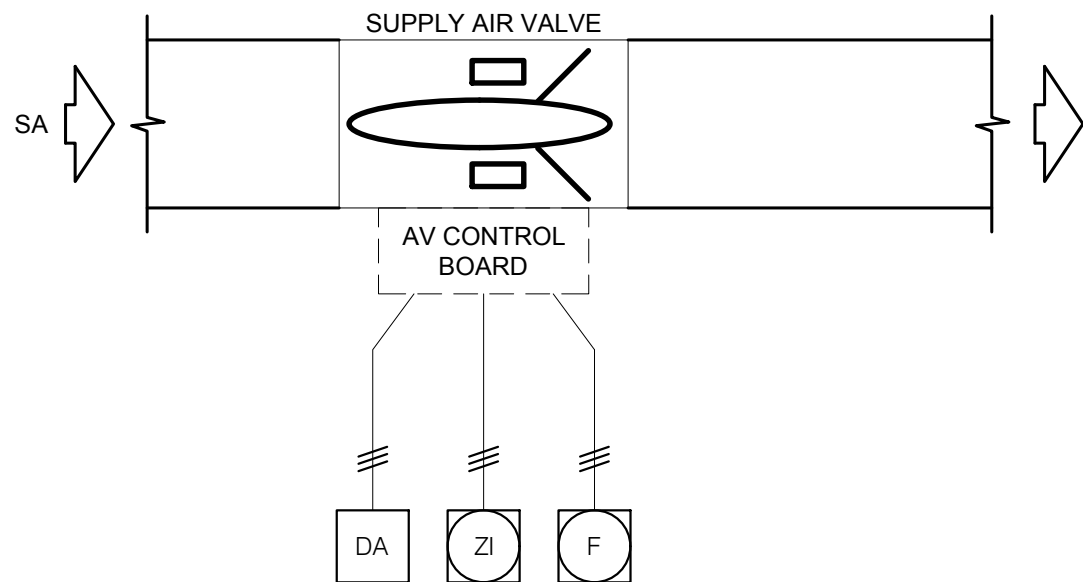
Project Title
Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title
Control Diagrams

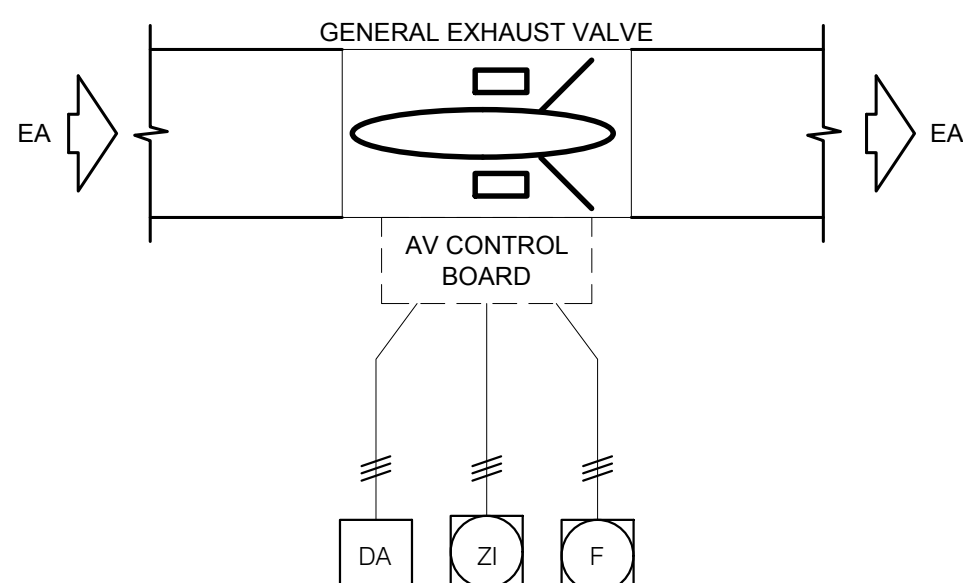
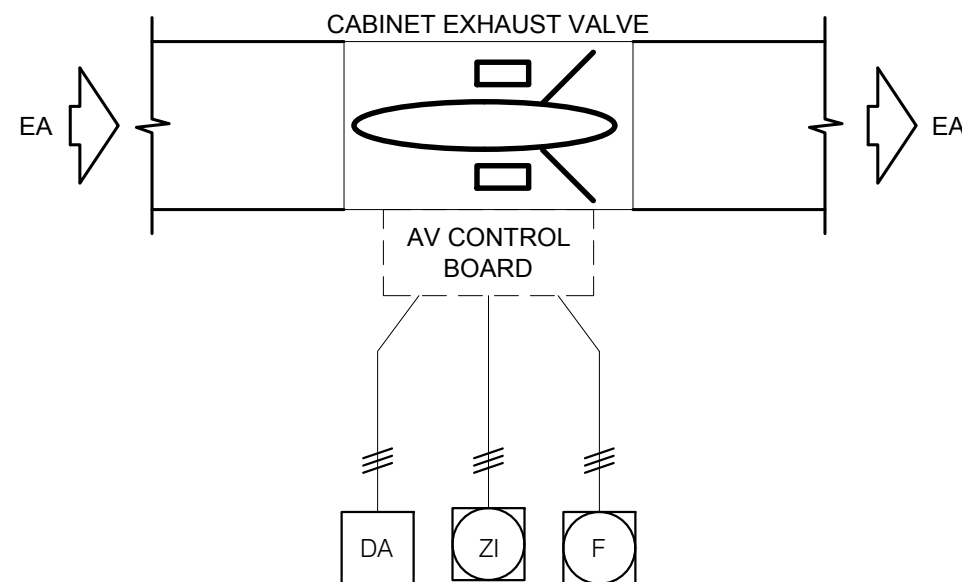
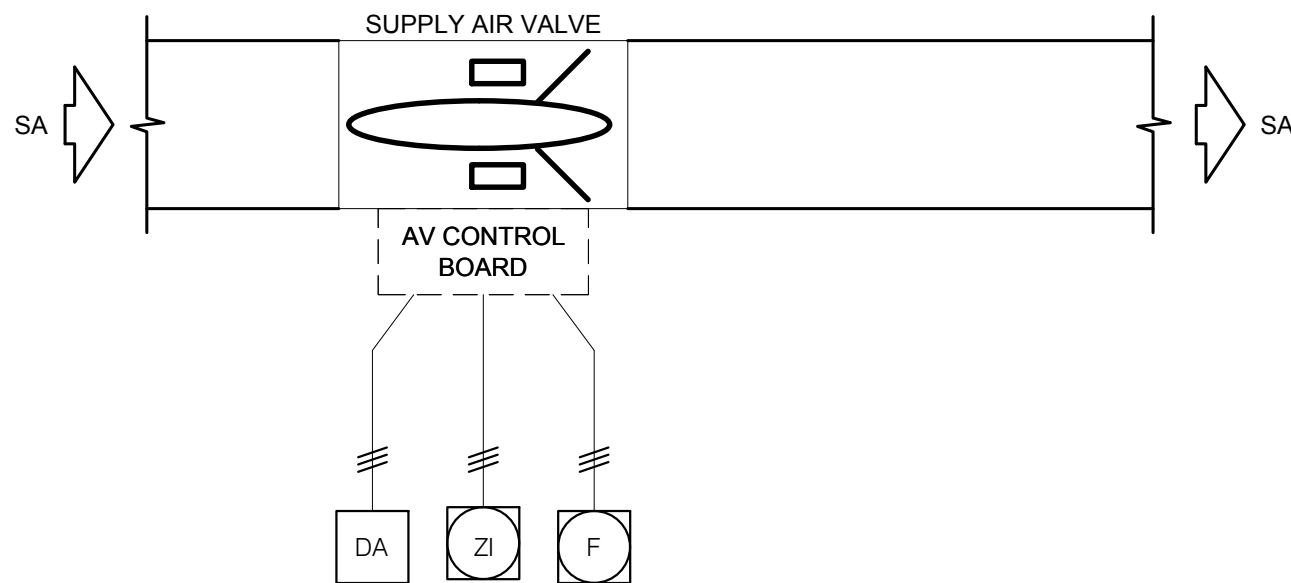
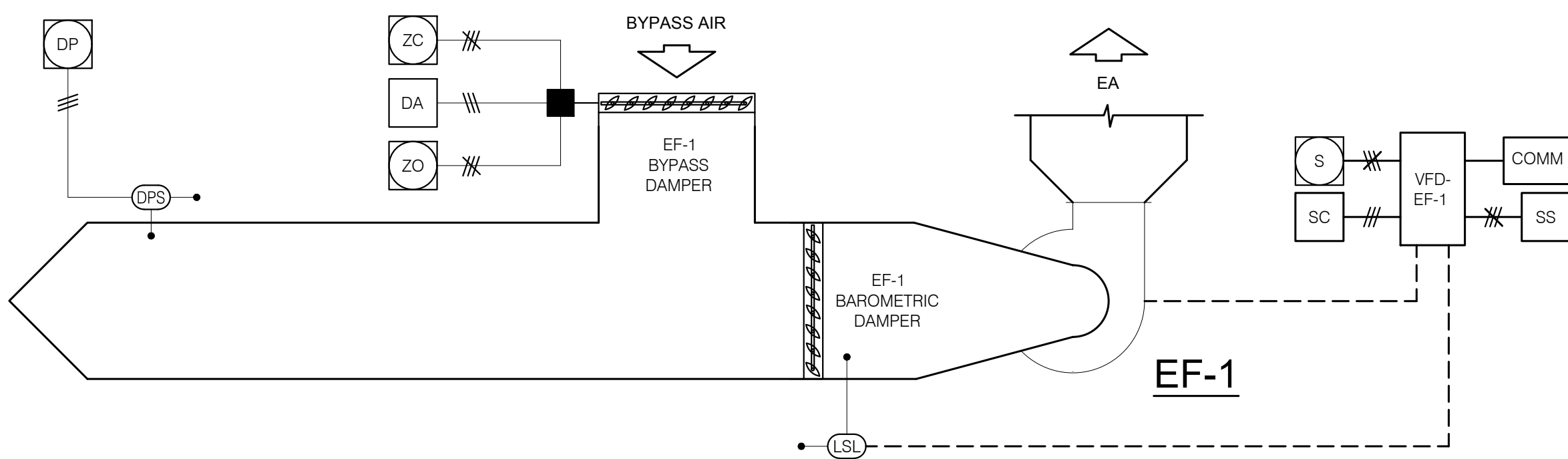
Architect's Seal	Designed: JDM	Project No. 5015019-102
Drawn: MU	Scale: Not To Scale	
QA/QC: NB	Drawing No. M5.01	
Date: 10/13/2017		

- NOTES
- SEE FLOOR PLANS FOR LOCATION OF TEMPERATURE, OCCUPANCY, AND OVERRIDE SENSORS.
 - SEE FLOOR PLANS FOR QUANTITY OF SUPPLY AIR VALVES AND EXHAUST VALVES



1 CHEMISTRY/BIOLOGY PREP

NO SCALE

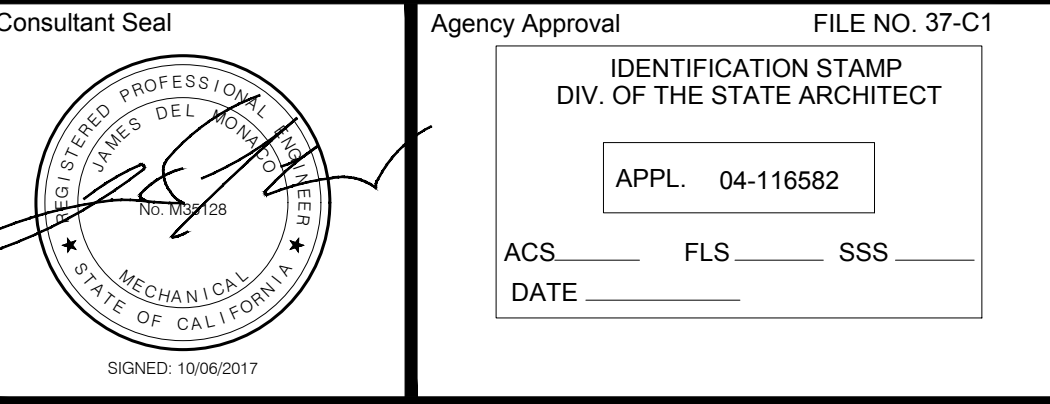
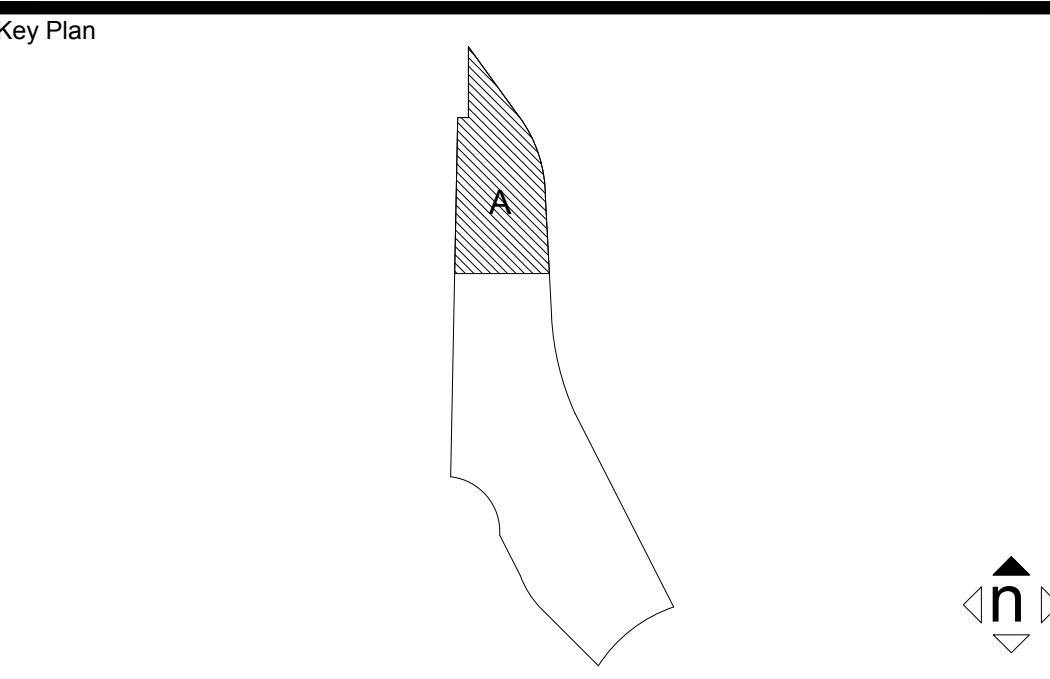


3 EXHAUST FAN

NO SCALE

2 BIOLOGY STORAGE

NO SCALE

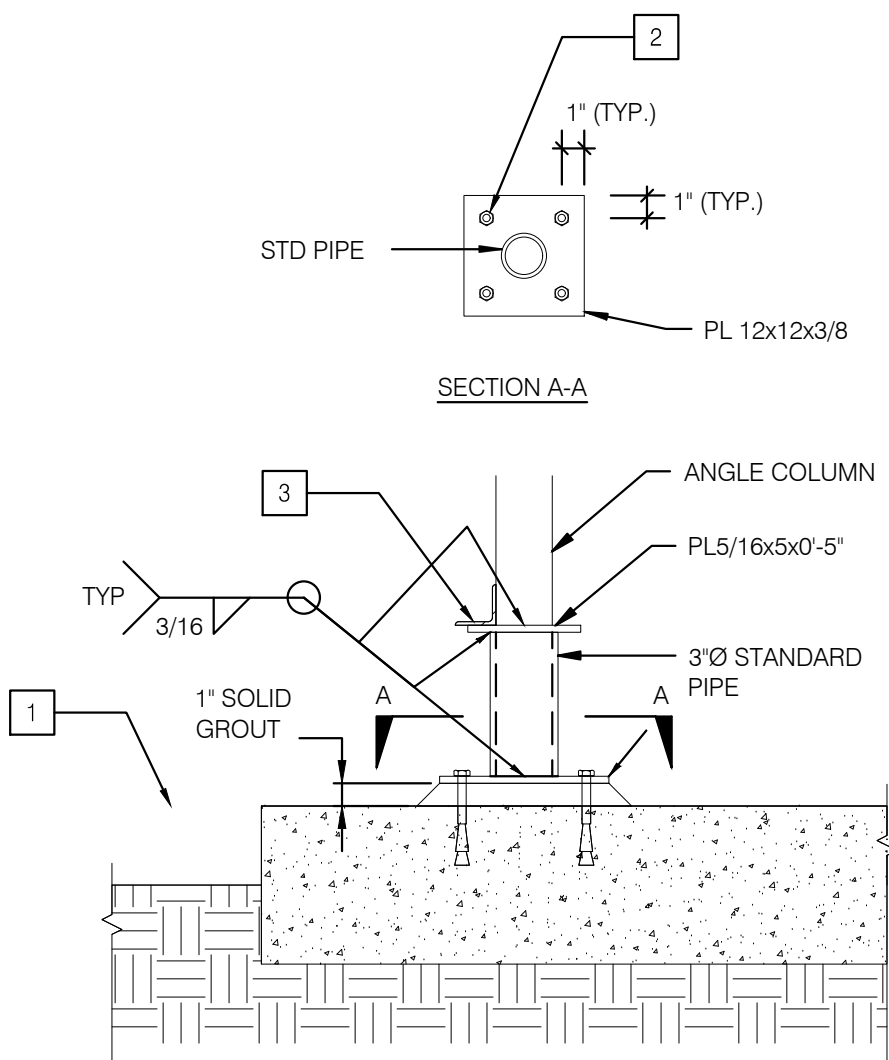


Project Title: Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title: Control Diagrams

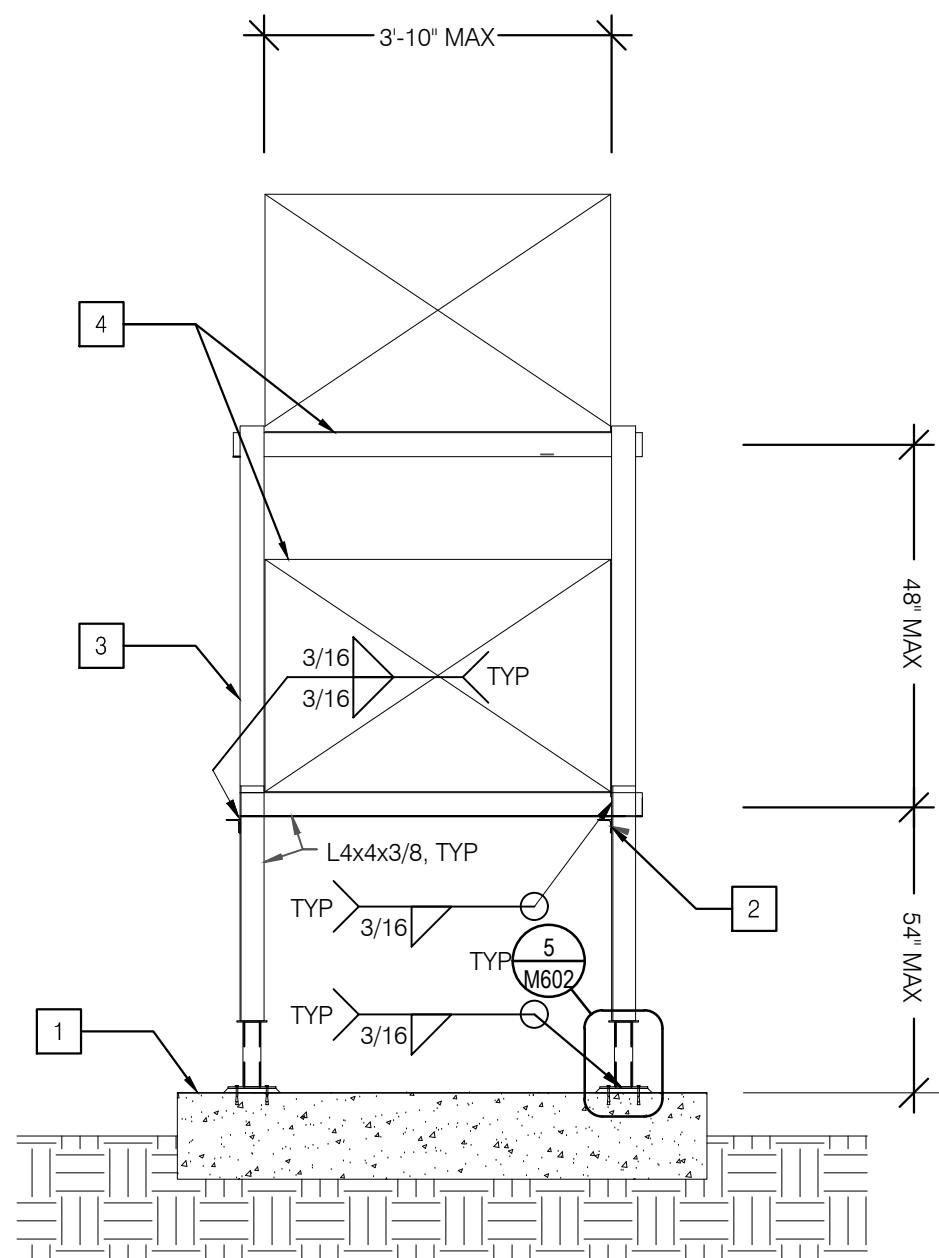
Architect's Seal	Designed: JDM	Project No. 5015019-102
Drawn: MU	Scale: Not To Scale	
QA/QC: NB		
Date: 10/13/2017		



NOTES

- 1 CONCRETE PAD PER DETAIL 16/A1.21.4.
- 2 3/8"Ø HILTI KBTZ W/ 2-5/16" NOM. EMBED AND 5" MIN. CONCRETE EDGE DISTANCE (4 TOTAL) INSTALLED PER ICC ESR-1917.
- 3 KICKER & WELD PER 3/M6.02.

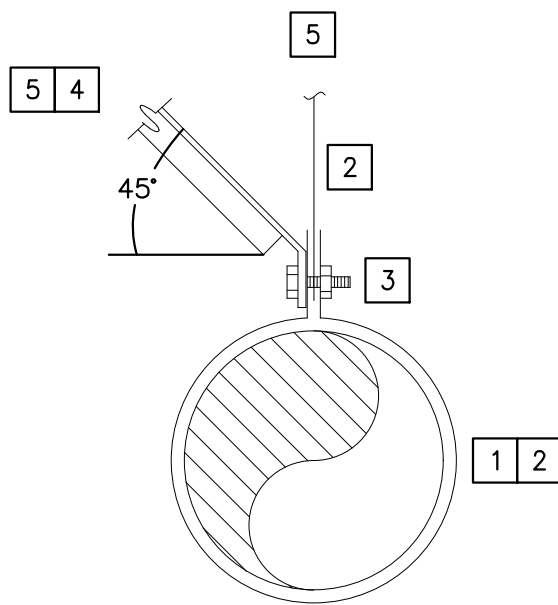
GENERAL NOTES:
A. ALL STEEL TO BE GALVANIZED & WELDS TO BE TOUCH-UP GALVANIZED.



NOTES

- 1 CONCRETE PAD PER DETAIL 16/A1.21.4.
- 2 L4x4x3/8 KICKER (1:1 SLOPE) TO BASE CONNECTION PER 5/M602. PROVIDE 2 KICKERS AT EVERY OTHER FRAME (MIN. 2 PER DUCT RUN). ALTERNATE DIRECTION OF KICKER AT EACH FRAME.
- 3 STACKED DUCT FRAMING TO BE SPACED AT 4'-0" MAX.
- 4 DUCT TOP AND/OR BOTTOM PER MECHANICAL DRAWINGS.

GENERAL NOTES:
A. ALL STEEL TO BE GALVANIZED & WELDS TO BE TOUCH-UP GALVANIZED.



NOTES

- 1 REFER TO DRAWINGS FOR ROUND DUCT SIZES. FOR ADDITIONAL DUCT SUPPORT, BRACING TO STRUCTURE, AND OTHER DUCT CONSTRUCTION REQUIREMENTS REFER TO 2005 SMACNA DUCT CONSTRUCTION STANDARDS.
- 2 PROVIDE MINIMUM 1" WIDE, 20 GAUGE, GALVANIZED STEEL DUCT HANGER STRAPS. DUCT SUPPORTS SHALL BE PROVIDED AT MAXIMUM 6'-0" ON CENTER FOR STRAIGHT LENGTH OF DUCT AND MAXIMUM 2'-0" ON CENTER AT ALL ELBOWS AND DUCT TRANSITIONS.
- 3 SECURE GALVANIZED STEEL HANGER STRAP TO DUCT STRAP WITH 5/8" A307 MACHINE BOLT AND NUT.
- 4 PROVIDE L2x2x1/4 DIAGONAL ANGLE BRACE AS REQUIRED PER CEC.
- 5 REFER TO SMACNA SEISMIC RESTRAINT GUIDELINES FOR ADDITIONAL REQUIREMENTS. SUBMIT FOR APPROVAL.

DUCT SUPPORT BASE

5

NO SCALE

DUCT SUPPORT ON GRADE

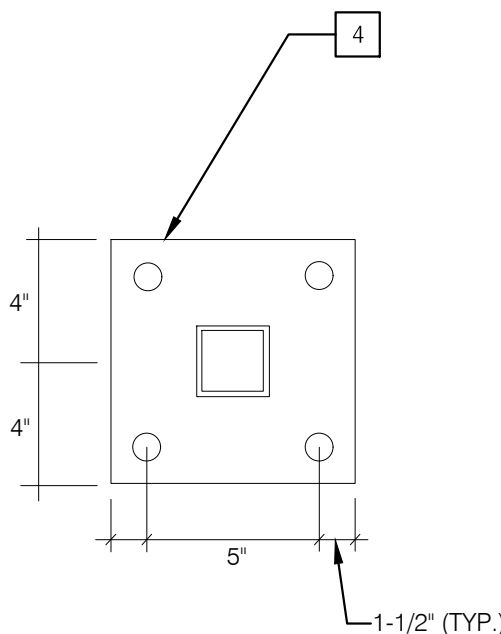
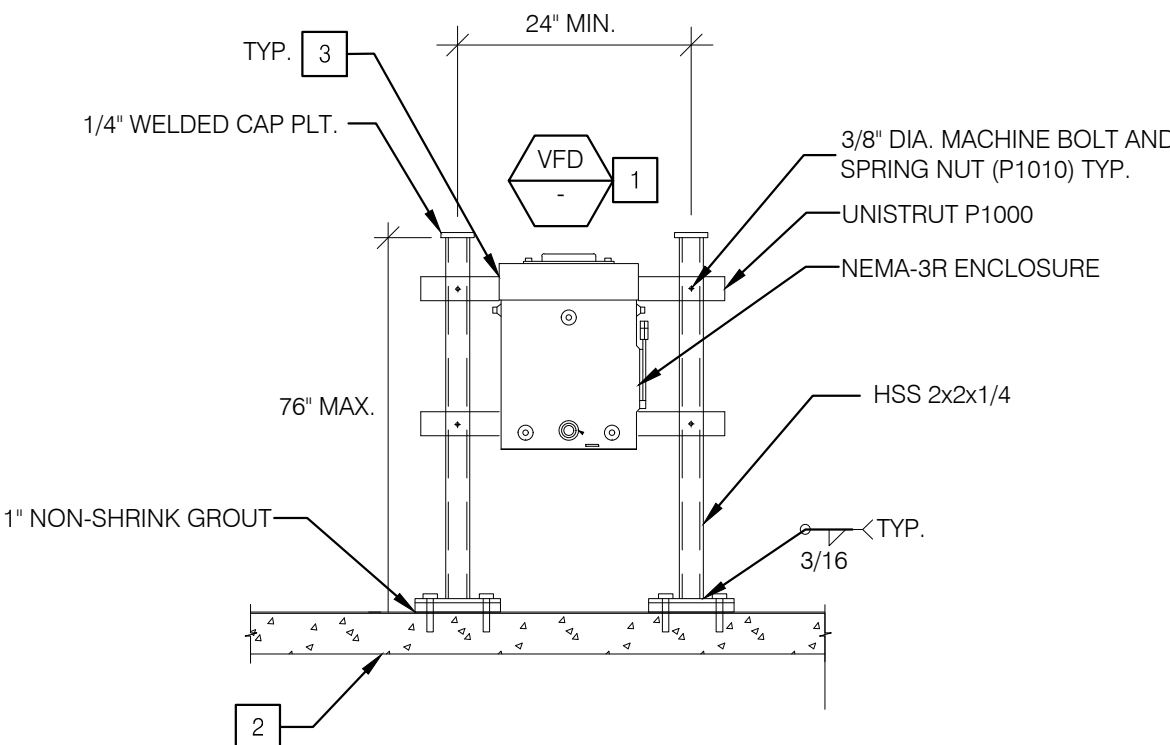
3

NO SCALE

ROUND DUCT SUPPORT

1

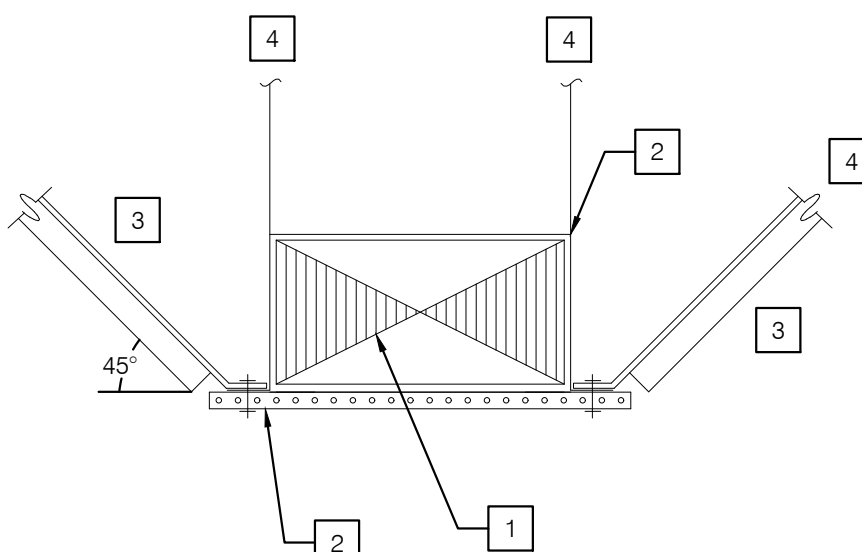
NO SCALE



NOTES

- 1 LOCATE TO ALLOW DOOR TO HAVE 90" OPENING AND 42" CLEAR IN FRONT ON VFD.
- 2 CONCRETE PAD PER DETAIL 16/A1.21.4.
- 3 #10 SMS AND SPRING NUTS (P1006-1024) AT MANUFACTURER ATTACHMENT POINTS EACH CORNER.
- 4 3/8"x9" PLT. WITH (4) 3/8" DIA. HILTI KB-TZ STAINLESS STEEL WITH 2-5/8" NOMINAL EMBED AND 5" MIN. CONC. EDGE DISTANCE. WATERTIGHT SEALANT AT EACH ANCHOR.

GENERAL NOTES:
A. ALL STEEL TO BE GALVANIZED & WELDS TO BE TOUCH-UP GALVANIZED.



NOTES

- 1 REFER TO DRAWINGS FOR RECTANGULAR OR SQUARE DUCT SIZES. FOR ADDITIONAL DUCT SUPPORT, BRACING TO STRUCTURE, AND OTHER DUCT CONSTRUCTION REQUIREMENTS REFER TO 2005 SMACNA DUCT CONSTRUCTION STANDARDS.
- 2 PROVIDE UNISTRUT BELOW DUCTWORK FOR SUPPORT. SECURE DUCTWORK TO UNISTRUT WITH MINIMUM 1" WIDE, 20 GAUGE, GALVANIZED STEEL DUCT HANGER STRAPS. DUCT SUPPORTS SHALL BE PROVIDED AT MAXIMUM 10'-0" ON CENTER FOR STRAIGHT LENGTH OF DUCT AND MAXIMUM 2'-0" ON CENTER AT ALL ELBOWS AND DUCT TRANSITIONS.
- 3 PROVIDE 2"x2"x1/6 GAUGE GALVANIZED STEEL DIAGONAL ANGLE BRACE AND CONNECT TO UNISTRUT WHERE REQUIRED PER CEC REQUIREMENTS. SECURE DIAGONAL ANGLE AND DUCT HANGER STRAP TO UNISTRUT WITH 5/8" A307 MACHINE BOLT AND NUT.
- 4 REFER TO SMACNA SEISMIC RESTRAINT GUIDELINES FOR ADDITIONAL REQUIREMENTS. SUBMIT FOR APPROVAL.

VFD MOUNTING ON GRADE

4

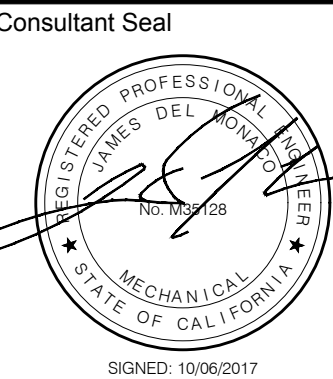
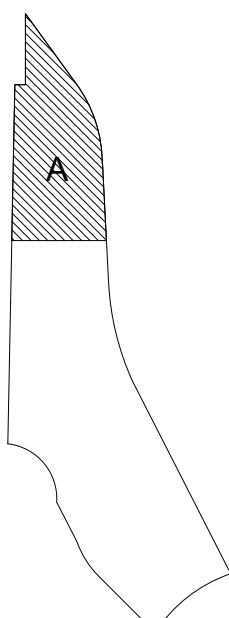
NO SCALE

RECTANGULAR DUCT SUPPORT

2

NO SCALE

Key Plan



Agency Approval
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116582
ACS. FLS. SSS.
DATE

Project Title



Palomar North Education Center - Interim Village

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

Details

Architect's Seal



Designed: JDM Project No. 5015019-102
Drawn: MU Scale: Not To Scale
QAQC: NB Drawing No. M6.02
Date: 10/13/2017

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
NRC-MCH-04-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Required Acceptance Tests
Project Name: Palomar NEC - Science Modules Date Prepared: 9/12/17 Page: of
A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS
(Indicate if worksheet is included)
For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual.
Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans. The NRC-MCH-04-E and NRC-MCH-05-E are alternative compliance documents to NRC-MCH-01-E, NRC-MCH-02-E and NRC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans when used.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
NRC-MCH-04-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Required Acceptance Tests
Project Name: Palomar NEC - Science Modules Date Prepared: 9/12/17 Page: of
Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this compliance document will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.
Enforcement Agency:
Systems Acceptance: Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.
Systems Acceptance: Before occupancy permit is granted for all newly installed HVAC equipment must be tested using the Acceptance Requirements. The NRC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance compliance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.
Test Description MCH-02-A MCH-03-A MCH-04-A MCH-05-A MCH-06-A MCH-07-A MCH-11-A MCH-12-A MCH-14-A MCH-18-A
Equipment Requiring Testing or Verification # of Units Outdoor Air Single Zone Unitary Air Distribution Ducts Economizer Controls Demand Control Ventilation (DCV) Supply Fan VAV Automatic Demand Shed Control FDD for Packaged DX Units Distributed Energy Storage DX AC Systems Energy Management Control System Test Performed By:
AHU-1 1 ☒ ☐ ☐ ☐ ☐ ☐ ☒ ☐ ☒ ☐ ☒ Contractor
AHU-2 1 ☒ ☐ ☐ ☐ ☐ ☐ ☒ ☐ ☒ ☐ ☒ Contractor
AHU-3 1 ☒ ☐ ☐ ☐ ☐ ☐ ☒ ☐ ☒ ☐ ☒ Contractor
Add Row Remove Last

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
NRC-MCH-04-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Required Acceptance Tests
Project Name: Palomar NEC - Science Modules Date Prepared: 9/12/17 Page: of
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: James Del Monaco Documentation Author Signature: [Signature]
Company: P2S Engineering, Inc. Signature Date: 9/12/17
Address: 5000 E. Spring St. CEA/HER Certification Identification (if applicable):
City/State/Zip: Long Beach, CA 90815 Phone: 562-497-2999
RESPONSIBLE PERSON'S DECLARATION STATEMENT
1. I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: James Del Monaco Responsible Designer Signature: [Signature]
Company: P2S Engineering, Inc. Date Signed: 9/12/17
Address: 5000 E. Spring St. License: M35128
City/State/Zip: Long Beach, CA 90815 Phone: 562-497-2999

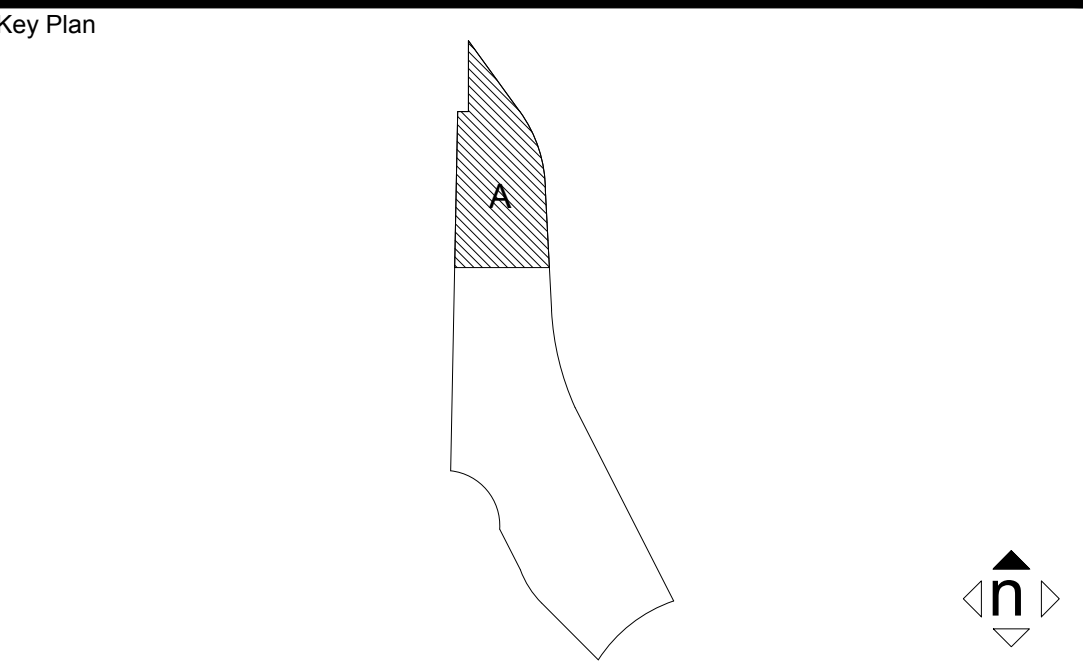
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016
STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
NRC-MCH-05-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Requirements for Packaged Single-Zone Units
Project Name: Palomar NEC - Science Modules Date Prepared: 9/12/17 Page: 2 of 2
Equipment Tag(s)
MANDATORY MEASURES
Heating Equipment Efficiency¹ T-24 Sections 110.1 or 110.2(a) 78% 80% 78% 80% 78% 80%
Cooling Equipment Efficiency² 110.1 or 110.2(b) 10.5 EER 11.5 EER 11.5 EER 11.5 EER 11.5 EER 12.3 EER
Thermostats³ 110.2(b), 110.2(c) Progr. Setback Progr. Setback Progr. Setback Progr. Setback Progr. Setback Progr. Setback
Furnace Standby Loss Control⁴ 110.2(d) N/A N/A N/A N/A N/A N/A
Low leakage AHU Ventilator⁵ 120.1(d) SLS SLS SLS SLS SLS SLS
Demand Control Ventilation⁶ 120.1(c)(4) N/A N/A N/A N/A N/A N/A
Occupant Sensor Ventilation Control⁷ 120.1(c)(5), 120.2(e)(3) N/A N/A N/A N/A N/A N/A
Shutoff and Reset Controls⁸ 120.2(a) Timeclock Progr. Timeclock Timeclock Progr. Timeclock Timeclock Progr. Timeclock
Outdoor Air and Exhaust Damper Control⁹ 120.2(f) Yes Yes Yes Yes Yes Yes
Automatic Demand Shed Controls¹⁰ 120.2(h) N/A N/A N/A N/A N/A N/A
Economizer FDD¹¹ 120.2(i) N/A N/A N/A N/A N/A N/A
Duct Insulation¹² 120.4 R-8 R-8 R-8 R-8 R-8 R-8
PRESCRIPTIVE MEASURES
Equipment is sized in conformance with 140.4(a & b) 140.4(a & b) Yes Yes Yes Yes Yes Yes
Economizer 140.4(e) N/A N/A N/A N/A N/A N/A
Electric Resistance Heating¹³ 140.4(g) N/A N/A N/A N/A N/A N/A
Duct Leakage Sealing and Testing¹⁴ 140.4(j) N/A N/A N/A N/A N/A N/A
Notes:
1. Provide equipment tags (e.g. ACI or ACI to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.
2. Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump); rated heating capacity (enter "N/A" if no heating); and rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. Btu/h or tons).
3. For each requirement, enter the minimum requirement from the Standard in the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.
4. Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEEF).
5. In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat). In the right column indicate the capabilities of the thermostat as scheduled.
6. If the unit has a furnace which is rated at > 225,000 Btu/h of capacity, indicate the rated standby loss and ignition source (e.g. IOD). If there is no furnace or the unit is rated for < 225,000 Btu/h indicate "N/A".
7. In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "The space is naturally ventilated" in the right column.
8. If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "Required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column).
9. In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).
10. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.
11. If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016
STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
NRC-MCH-05-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Requirements for Packaged Single-Zone Units
Project Name: Palomar NEC - Science Modules Date Prepared: 9/12/17 Page: 2 of 2
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: James M Del Monaco Documentation Author Signature: [Signature]
Company: P2S Engineering, Inc. Signature Date: 9/12/17
Address: 5000 E. Spring St. CEA/HER Certification Identification (if applicable):
City/State/Zip: Long Beach, CA 90815 Phone: 562-497-2999
RESPONSIBLE PERSON'S DECLARATION STATEMENT
1. I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: James M Del Monaco Responsible Designer Signature: [Signature]
Company: P2S Engineering, Inc. Date Signed: 9/12/17
Address: 5000 E. Spring St. License: M35128
City/State/Zip: Long Beach, CA 90815 Phone: 562-497-2999

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016
STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
NRC-MCH-05-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Requirements for Packaged Single-Zone Units
Project Name: Palomar NEC - Science Modules Date Prepared: 9/12/17 Page: 2 of 2
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Responsible Designer Name: James M Del Monaco Responsible Designer Signature: [Signature]
Company: P2S Engineering, Inc. Date Signed: 9/12/17
Address: 5000 E. Spring St. License: M35128
City/State/Zip: Long Beach, CA 90815 Phone: 562-497-2999

STATE OF CALIFORNIA
LABORATORY EXHAUST
NRC-PRC-09-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Laboratory Exhaust
Project Name: Palomar NEC - Science Modules Date Prepared: 9/12/17 Page: 2 of 2
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: James M Del Monaco Documentation Author Signature: [Signature]
Company: P2S Engineering, Inc. Signature Date: 9/12/17
Address: 5000 E. Spring St. CEA/HER Certification Identification (if applicable):
City/State/Zip: Long Beach, CA 90815 Phone: 562-497-2999
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Responsible Designer Name: James M Del Monaco Responsible Designer Signature: [Signature]
Company: P2S Engineering, Inc. Date Signed: 9/12/17
Address: 5000 E. Spring St. License: M35128
City/State/Zip: Long Beach, CA 90815 Phone: 562-497-2999

STATE OF CALIFORNIA
LABORATORY EXHAUST
NRC-PRC-09-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Laboratory Exhaust
Project Name: Palomar NEC - Science Modules Date Prepared: 9/12/17 Page: 1 of 2
System air flow as designed: 6 ACH
Equipment Tags and System Description¹ EF-1
PRESCRIPTIVE MEASURES
T-24 Sections
Exhaust system with VAV hood 140.9(c) M0.03, M0.01
Exhaust system without VAV hood - Exc. 1c 140.9(c) Exception 1
Exhaust system without VAV hood - Exc. 1c 140.9(c) Exception 2
Notes:
1. Enter the designed system air flow rate in Air Changes per Hour (ACH) for all Laboratory systems under this permit.
2. Provide equipment tags (e.g. EF-1 to x and AHU 1 to y) for all systems that are covered by these requirements. This includes systems that are VAV flow hoods as well as systems that are exempted as per sections 1 or 2 under section 140.9(c).
3. Provide references to plans (e.g. Drawing Sheet Number) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system. Explicitly list which exception is used (if used).



Consultant Seal
Agency Approval
FILE NO. 37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116582
ACS. FLS. SSS.
DATE

Project Title
Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title
Title 24 Forms

Architect's Seal
Designed: JDM Project No. 5015019-102
Drawn: MU Scale: Not To Scale
QA/QC: NB Drawing No.
Date: 10/13/2017
M7.01

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	CHANGING PIPE SIZE
	NEW PIPE (SIZE-SERVICE)
	EXISTING PIPE/EQUIPMENT
	DEMOLISHED PIPE/EQUIPMENT
	LOW PRESSURE NATURAL GAS
	MEDIUM PRESSURE NATURAL GAS
	INDIRECT WASTE
	SANITARY SEWER/WASTE UNDERGROUND
	SANITARY SEWER/WASTE ABOVEGROUND
	SANITARY VENT
	DOMESTIC HOT WATER RETURN
	DOMESTIC HOT WATER SUPPLY
	DOMESTIC COLD WATER
	STORM DRAIN PIPING
	SUBSOIL DRAIN
	ACID WASTE
	ACID VENT
	TEMPERED WATER
	CONDENSATE DRAIN
	LABORATORY COMPRESSED AIR
	NONPOTABLE COLD WATER
	LABORATORY VACUUM
	VALVE AT DROP
	VALVE AT RISE
	ELBOW DOWN
	PIPE TEE UP & DOWN OR ELBOW UP
	PIPE TEE DOWN
	PIPE TEE UP
SYMBOL	DESCRIPTION
	SOLENOID VALVE
	GATE VALVE
	BALL VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE, SWING
	PLUG VALVE
	STRAINER, Y-TYPE
	FLOW METER
	BACKFLOW PREVENTER
	HOSE BIBB
	FLOOR DRAIN
	FLOOR SINK, 1/2 GRATE
	AREA DRAIN / INDUSTRIAL RECEPTOR
	SHUT-OFF VALVE IN YARDBOX
	BALANCING VALVE
	FLOOR CLEANOUT
	CLEANOUT TO GRADE
	WALL CLEANOUT
	WATER HAMMER ARRESTOR
	TRAP PRIMER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
@	AT
ABV	ABOVE
A/C	ABOVE CEILING
AC	ACETYLENE
AD	AREA DRAIN
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFSR	AUTOMATIC FIRE SPRINKLER RISER
AR	ARGON GAS
AV	ACID VENT
AW	ACID WASTE
BEL	BELOW
BFP	BACKFLOW PREVENTER
B/G	BELOW GRADE
B/F	BELOW FLOOR
BTM	BOTTOM
BY	BALL VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CLG	CEILING
COTG	CLEAN-OUT TO GRADE
CJ	CUBIC
CW	COLD WATER
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING(S)
(E)	EXISTING
EXIST	EXISTING
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
F	FIRE
F/A	FROM ABOVE
F/B	FROM BELOW
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FM	FORCE MAIN
FS	FLOOR SINK
FT	FEET
G	NATURAL GAS (LOW PRESSURE)
GAL	GALLONS
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
HCW	HOT AND COLD WATER
HL	HIGH LEVEL
HDR	HEADER
HT	HEIGHT
IN	INCHES
INDIRECT WASTE	INDIRECT WASTE
L or LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
MPG	NATURAL MEDIUM PRESSURE GAS
MTD	MOUNTED
NTS	NOT TO SCALE
O	OXYGEN
OD	OVERFLOW DRAIN
OS&Y	OPEN SCREW AND YOKE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
R&C	ROUGH-IN AND CONNECT
S	SINK, SEWER, SOIL
SD	STORM DRAIN
SOV	SHUT-OFF VALVE
SQ	SQUARE
SS	SERVICE SINK
T/A	TO ABOVE
T/B	TO BELOW
T/P	TRAP PRIMER
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UR	URINAL
V	SANITARY VENT
VOLT	VOLTAGE
VTR	VENT THRU ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR

REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED. ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE 2016 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETTED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
- SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
- WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL."
- IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS / SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
- CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL PLUMBING SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.
- ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF RENOVATION / NEW CONSTRUCTION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD.
- ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE COLLEGE TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE COLLEGE, INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
- THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND / OR ADDITIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND PROVIDE SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF ALL HVAC AND PIPING SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE UNIVERSITY REPRESENTATIVE IN THE EVENT OF AN INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW. CONTRACTOR SHALL PROVIDE DIMENSIONED SHOP DRAWINGS COMPLETED IN THE LATEST VERSION OF AUTOCAD.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
- BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.
- CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
- EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.
- ALL PLUMBING FIXTURE VENTS TO TERMINATE MINIMUM 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM OR 3 FEET ABOVE ANY OUTSIDE AIR INTAKES. NO FLAGPOLE PERMITTED.
- ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT WORKMANSHIP-LIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.
- ALL PIPING DISCHARGING INTO FLOOR-SINKS AND/OR FLOOR DRAINS SHALL MAINTAIN MINIMUM AIR-GAP AS REQUIRED BY LOCAL CODES.
- ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE WORK.
- UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
- EQUIPMENT ANCHORAGE NOTES:
 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

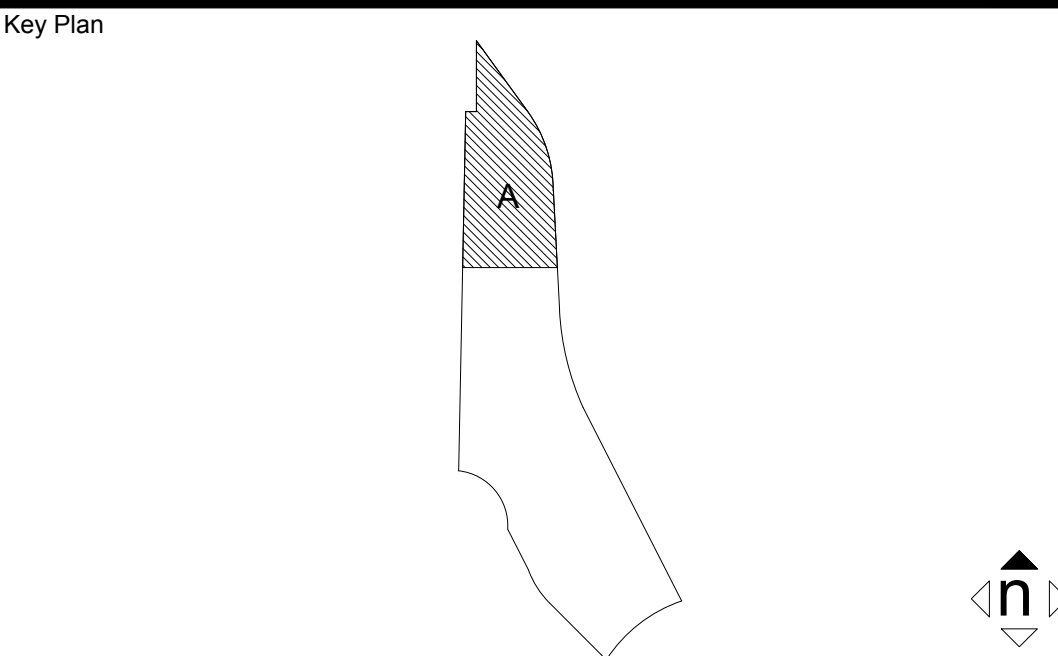
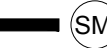
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

- THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
- COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM.
- THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
- PLUMBING FIXTURES AND FAUCETS SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA ENERGY COMMISSION AS REQUIRED BY THE CALIFORNIA ENERGY EFFICIENCY STANDARDS SECTION 5-3314 AND TABLE 'G'.
 - ALL SOIL, WASTE, STORM DRAIN AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.
 - PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 ITEM 6, AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

- PIPING THROUGH FIRE RATED WALLS SHALL BE PER U.L. FIRE RESISTANCE SYSTEM NO. W1001. SEE ARCHITECTURAL PLANS FOR ALL WALL LOCATIONS.
- REFER TO THE SPECIFICATIONS BOOK FOR ADDITIONAL REQUIREMENTS.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
- KEEP ALL PIPING FROM LOAD BEARING FOOTINGS. IF UNABLE TO CLEAR FOOTINGS OR GRADE BEAMS, INSTALL PIPING THROUGH PIPE SLEEVES.
- BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIXTURES. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
- ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF 2016 CBC CHAPTER 11A AND/OR 11B. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC 2016 SECTION 1138A. FIXTURE CONTROLS SHALL COMPLY WITH CBC 2016 SECTION 1138A.4.
- ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- ALL VENT THROUGH ROOF SHALL BE MINIMUM OF 3 FEET VERTICALLY AND 10 FEET HORIZONTALLY FROM ANY AIR CONDITIONING EQUIPMENT FRESH AIR INTAKES.
- VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, ROOF, OVERFLOW DRAINS AND FLOOR SINKS.
- FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGES. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
- HOSE BIB WITH VACUUM BREAKER SHALL BE PROVIDED UNDER LAVATORY IN EACH PUBLIC RESTROOM.
- INSULATE INDIRECT DRAIN LINES FROM REFRIGERATORS, FREEZERS, ICE MAKER AND ICE BINS WITH MANVILLE AERO-TUBE OR EQUAL TO PREVENT CONDENSATE DRIPS.
- INSULATE WASTE PIPE AND P-TRAP FROM FLOOR SINK, FLOOR DRAINS OR FUNNEL DRAINS. COLLECTING INDIRECT DRAINS FROM REFRIGERATORS, FREEZERS, ICE MAKER AND ICE BINS TO PREVENT CONDENSATE DRIPS. INSULATE WASTE PIPE UP TO THE NEXT 3" OR 4" MAIN CONNECTION.
- PROVIDE AND INSTALL GAS COCKS AND UNION AT EACH GAS FIRED EQUIPMENT.
- PROVIDE AND INSTALL CHROME ANGLE VALVES ON HOT AND COLD WATER SUPPLY AT EACH PLUMBING FIXTURES.
- ALL WATER FAUCETS SHALL BE PROVIDED WITH CODE APPROVED FLOW RESTRICTORS.
- COVER ALL FLOOR DRAINS, FLOOR SINKS, ROOF AND OVERFLOW DRAINS DURING CONSTRUCTIONS TO PREVENT DEBRIS FROM ENTERING PIPE AND PROTECT GRATES FROM DAMAGES.
- COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGES AT ALL EQUIPMENT LOCATIONS.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL TAMPER AND FLOW SWITCH LOCATIONS.
- BECAUSE OF THE SMALL SCALE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS SURROUNDING INSTALLATION OF HIS WORK. FURNISHING THE NECESSARY PIPING, FITTINGS, VALVES, TRAPS, AND OTHER DEVICES WHICH MAY BE REQUIRED TO COMPLETE THE INSTALLATION.
- UNLESS SPECIFIED ON STRUCTURAL DRAWINGS, ANY ALTERATION OR MODIFICATIONS TO STRUCTURAL ELEMENTS BY CUTTING, DRILLING, BORING, BRACING, WELDING ETC. SHALL HAVE WRITTEN APPROVAL STRUCTURAL ENGINEER PRIOR TO START WORK.
- ITEMS NOT SHOWN IN THE DRAWINGS BUT NECESSARY FOR COMPLETE OPERATION OF THE SYSTEM/FIXTURES/EQUIPMENT OR FOR COMPLETE CODE INSTALLATION SHALL BE PROVIDED AT NO ADDED COST TO THE OWNER.
- DIELECTRIC UNION ISOLATOR WITH THREADED CONNECTIONS SHALL BE PROVIDED FOR CONNECTING INCOMPATIBLE MATERIALS.
- ALL PLUMBING FIXTURES SHALL BE APPROVED BY OWNER PRIOR TO ORDERING.
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES TO WHERE HE IS TO CONNECT PRIOR TO INSTALLATION OF ANY PIPING. EXTEND NEW PIPING IF NECESSARY TO WHERE THE EXISTING IS.
- ALL CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNERS REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUT DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNERS REPRESENTATIVE.
- ALL EXISTING PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH MATERIALS TO MATCH EXISTING BY THE CONTRACTOR.
- PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN THE FOLLOWING LOCATIONS (ONLY NON-FERROUS ARRESTORS MAY BE INSTALLED IN ANY WATER SYSTEM):
 - WATER LINES TO LAVATORY HEADERS, WATER CLOSET AND URINAL HEADERS, SERVICE SINKS, KITCHEN SINKS, WASH FOUNTAINS, DRINKING FOUNTAINS, LABORATORIES WITH MEDICAL TYPE FAUCETS AND ON WASH SINKS HAVING 3 OR MORE STATIONS AND ALL OTHER QUICK CLOSING FIXTURE SUCH AS CLOTHES WASHERS, AS CLOSE TO FIXTURE AS POSSIBLE.
 - BETWEEN LAST 2 FIXTURES WHEN 3 OR MORE FIXTURES, OTHER THAN THOSE LISTED IN 'A' ABOVE, ARE SERVED BY A COMMON HEADER.
 - WHEN ARRESTOR SHALL BE INSTALLED IN WALL OR FURRING, FURNISH WITH AN ACCESS PLATE LARGE ENOUGH TO PERMIT REMOVAL OF ARRESTOR. ACCESS PLATE SHALL BE A MINIMUM OF 2 INCHES LARGER IN EACH DIRECTION THAN ARRESTOR.
- ALL PIPING INTO STEM WALLS AND FOOTINGS SHALL BE DOUBLE HALF LAP WRAPPED WITH 1/8" THICK "ARMAFLEX" INSULATION. THE CONTRACTOR SHALL ALSO PROVIDE BLOCKED OUT AREAS IN STEM WALL AND FOOTING. ALL PIPING SHALL AVOID THE LOWER 8" OF THE FOOTING.
- ALL HOT WATER PIPING SHALL BE INSULATED. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER 2016 CMC SEC. 1201.3.2.11. SEE SPECIFICATION FOR OTHER REQUIREMENTS.
- ALL CONNECTIONS TO SITE PIPING SHALL BE DONE BY THE PLUMBING CONTRACTOR.
- CLEANOUTS SHALL BE PROVIDED PER 2016 CPC SECTION 707.0 & 719.0 AND TO THE FOLLOWING LOCATIONS:
 - AT EACH BASE OF ROOF DRAIN DOWNSPOUTS.
 - AT EACH BASE OF WASTE STACK.
 - AT EVERY 100 FT OF STRAIGHT RUN OF HORIZONTAL PIPING.
 - AT EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE (135) DEGREES.
 - AT EACH HORIZONTAL DRAINAGE PIPE UPPER TERMINAL.
 - ABOVE EACH URINAL.
 - BELOW EACH SINK.
- PROVIDE SEDIMENT TRAP AS CLOSE AS POSSIBLE TO ALL GAS APPLIANCES AND GAS FIRED EQUIPMENTS INLET EXCEPT FOR APPLIANCES LISTED PER 2016 CPC SECTION 1211.8. SEE SEDIMENT TRAP INSTALLATION PER 2016 CPC FIGURE 1211.8.
- DOMESTIC WATER PIPING AND COMPONENTS SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA AB 1993 LEGISLATION, WHICH LIMITS THE ALLOWABLE LEAD CONTENT IN CERTAIN DOMESTIC WATER SYSTEM COMPONENTS.
- ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET CALGREEN MANDATORY REQUIREMENT OF 20% REDUCED FLOW RATE SPECIFIED IN TABLE 5.303.2.3.

SHEET INDEX

SHEET	DESCRIPTION
P0.01	GENERAL NOTES, LEGEND, ABBREVIATIONS, AND SHEET INDEX
P0.02	SCHEDULES
P1.01	PLUMBING SITE PLAN
P2.01	PLUMBING FLOOR PLAN
P6.01	DETAILS
P6.02	DETAILS



Consultant Seal 	Agency Approval IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACS. _____ FLS. _____ SSS. _____ DATE _____
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Project Title Palomar College Learning to Succeed	Palomar North Education Center - Interim Village 35090 Horse Ranch Creek Road Fallbrook, CA 92028
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No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
General Notes, Legend And Abbreviations

Architect's Seal 	Designed: RC Project No. 5015019-102
Drawn: MU QAQC: JDM	Scale: Not To Scale Drawing No. P0.01
Date: 10/13/2017	

WATER HEATER SCHEDULE

MARK	MANUFACTURER & MODEL	LOCATION	DIMENSIONS		TEMP		FLOW (GPM)	ELECTRICAL DATA			KW	AMPS	OPER. WEIGHT (LBS)	REMARKS
			HT X WD (IN.XIN.)	DEPTH (IN.)	IN (°F)	OUT (°F)		V	PH	CYCL E (HZ)				
IWH-1	EEMAX SPECADVANTAGE AP064208 EFD	BLDG B,C,D	24 x 30	13.5	60	82	20	208	30	60	64	178	130	TANKLESS WATER HEATER CONSTRUCTED WITH NSF 61 LISTED MATERIALS. NON-FERROUS DIRECT HEATING ELEMENT, CARTRIDGE STYLE. COMPLETE WITH INTEGRATED FLOW METER, REDUNDANT SAFETY PROTECTION INCLUDING THERMO MECHANICAL SAFETY SWITCHES, INFRARED ELEMENT MONITORING AND DUAL TEMPERATURE MONITORING, AND HIGH VISIBLE LCD DISPLAY AND CONTROL WITH BUILT IN DIAGNOSTICS.
IWH-2	EEMAX PROSERIES PRO18240	BLDG B	17 x 14	4	60	91	4	240	10	60	18	75	15	TANKLESS WATER HEATER WITH COPPER CLAD IMMERSION HEATING ELEMENT(S), COMPLETE WITH INTERNAL TEMPERATURE CONTROL AND DISPLAY, AND IFR 3-4 INLINE FLOW REGULATOR.
NOTE: ALL EQUIPMENT AND/OR COMPONENTS AS PART OF THE PLUMBING SYSTEM SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.														

LAB VACUUM PUMP

MARK	MANUFACTURER AND MODEL	LOCATION	TYPE	CAPACITY (EACH)		MOTOR (EACH)			OPER. WT. (LB.)	REMARKS
				ACFM	IN HG	HP	RPM	VOLT/PH/Hz		
LV-1	BEACON MEDAES LVLV65S-120V-S	SERVICE YARD	OIL LUBRICATED ROTARY VANE	56	19	5	-	208/3/60	665	SIMPLEX OIL LUBRICATED ROTARY VANE VACUUM PUMP MOUNTED ON A VERTICAL ASME CODED RECEIVER, WITH MAGNETIC MOTOR STARTER AND VIBRATION ISOLATORS, COMPLETE WITH ELECTRICAL CONTROLS DESIGNED, ASSEMBLED, AND FACTORY TESTED.

LAB AIR COMPRESSOR

MARK	MANUFACTURER AND MODEL	LOCATION	TYPE	CAPACITY (EACH)		MOTOR (EACH)			OPER. WT. (LB.)	REMARKS
				SCFM	PSI	HP	RPM	VOLT/PH/HZ		
LA-1	BEACON MEDAE'S LES07-115-RD-310	SERVICE YARD	SIMPLEX SCROLL PACKAGE	20.8	101.5	7.5	-	208/3/60	503	OIL-FREE SCROLL COMPRESSOR WITH ENCLOSURE, INTEGRATED DRYER AND TANK SUPPLIED AS A COMPLETE PACKAGE UNIT WITH ALL NECESSARY EQUIPMENT, INCLUDING BUT NOT LIMITED TO INLET FILTER, AIR COMPRESSOR ELEMENT, DRIVE MOTOR, AFTERCOOLER, STARTER AND REGULATION SYSTEM, CONTROL PANEL.

FIXTURE SCHEDULE

	FIXTURE	MIN. ROUGH-IN SIZES				REMARKS
		CW	HW	S OR W	V	
SK-1	SINK	1/2"	-	2"	2"	SINK AND FAUCET TRIMS BY OTHERS. REFER TO 'L'F' DRAWINGS. PROVIDE WITH PRE-WRAPPED OFFSET DRAIN WITH MCGUIRE PROWRAP P-TRAP & COLD WATER ANGLE STOP SUPPLY COVERS, ANGLE STOPS AND SUPPLIES.
SK-2	SINK	1/2"	-	2"	2"	SINK AND FAUCET TRIMS BY OTHERS. REFER TO 'L'F' DRAWINGS. PROVIDE WITH PRE-WRAPPED OFFSET DRAIN WITH MCGUIRE PROWRAP P-TRAP & COLD WATER ANGLE STOP SUPPLY COVERS, ANGLE STOPS AND SUPPLIES.
SK-3	SINK	1/2"	1/2"	2"	2"	SINK AND FAUCET TRIMS BY OTHERS. REFER TO 'L'F' DRAWINGS. PROVIDE WITH PRE-WRAPPED OFFSET DRAIN WITH MCGUIRE PROWRAP P-TRAP & HOT & COLD WATER ANGLE STOP SUPPLY COVERS, ANGLE STOPS AND SUPPLIES.
CS-1	CUP SINK	-	-	2"	1-1/2"	CUP SINK INTEGRAL WITH FUMEHOOD. PROVIDE WITH P-TRAP DRAIN ASSEMBLY.
IMB-1	ICE MAKER BOX	1/2"	-	-	-	OATEY 12K ICE MAKER BOX COMPLETE WITH FACEPLATE RECESSED BOX, 1/4 TURN BRASS BALL VALVE, LOW LEAD, OR EQUIVALENT.
ESEW-1	EMERGENCY SHOWER & EYE WASH	1-1/4"	-	1-1/4"	-	EMERGENCY EQUIPMENT BY OTHERS. REFER TO 'L'F' DRAWINGS.
EW-1	EYE WASH	3/4"	-	-	-	EMERGENCY EQUIPMENT BY OTHERS. REFER TO 'L'F' DRAWINGS.
FS-1	FLOOR SINK	1/2"	-	2"	1-1/2"	ZURN ZN1930-KC-2, 8" x 4" FLOOR SINK WITH ANCHOR FLANGE & CLAMP COLLAR WITH HALF GRATE AND TRAP PRIMER CONNECTION.
GPR-1	GAS PRESSURE REGULATOR	-	-	-	-	AMERICAN METER REGULATOR, MODEL 1813C, 1 1 /4" INLET & OUTLET CONNECTIONS, 5/16" ORIFICE, 6-15" WC SPRING RANGE.
EQV-1	EARTHQUAKE VALVE	-	-	-	-	CALIFORNIA SEISMIC VALVE, MODEL 315, 3" NPT VALVE, HORIZONTAL FLOW.
BFP-1	BACKFLOW PREVENTER	3'	-	-	-	PROVIDE LEAD-FREE VALVE WITH INLET & OUTLET PRESSURE GAUGE, STRAINER AND LOW FLOW BY-PASS VALVE OPTIONS.
PRV-1	PRESSURE REDUCING VALVE	3'	-	-	-	PROVIDE LEAD-FREE VALVE WITH INLET & OUTLET PRESSURE GAUGE, STRAINER AND LOW FLOW BY-PASS VALVE OPTIONS.
EGV-1	EMERGENCY GAS VALVE	SEE PLANS FOR SIZE				AMERICAN GAS SAFETY 'MERLIN' MODEL 1000S, GAS SHUT-OFF CONTROL PANEL, WALL MOUNTED, UL CERTIFIED, COMPLETE WITH REMOTE EMERGENCY STOP BUTTON, GAS PRESSURE TRANSDUCER, AGS 120V AC GAS SOLENOID VALVE (SIZE TO MATCH LINE SIZE), PROVIDE WITH 120 VAC 50/60HZ POWER, AND LOW VOLTAGE WIRING.
NOTES: ALL FIXTURES SHALL BE PROVIDED WITH MINIMUM ROUGH-IN CONNECTIONS AS INDICATED IN THIS SCHEDULE OR PER MANUFACTURERS RECOMMENDATIONS. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FIXTURES. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TRIMS, FLUSH VALVES, TAILPIECES, STRAINERS, P-TRAPS, TRAP ARMS, HOT & COLD WATER STOPS AND FAUCETS AS REQUIRED.						

PIPING MATERIALS

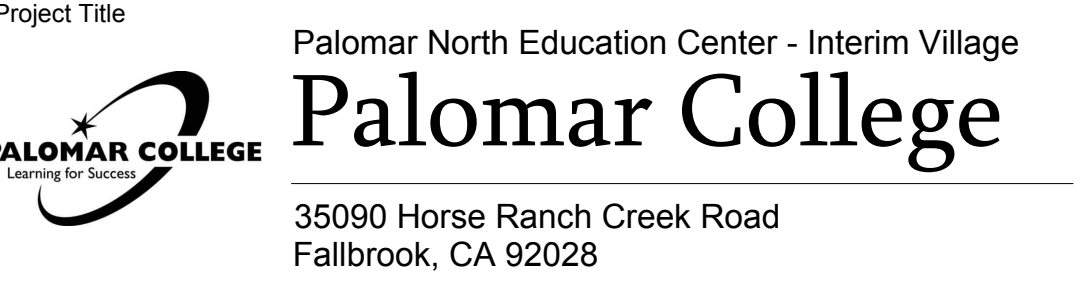
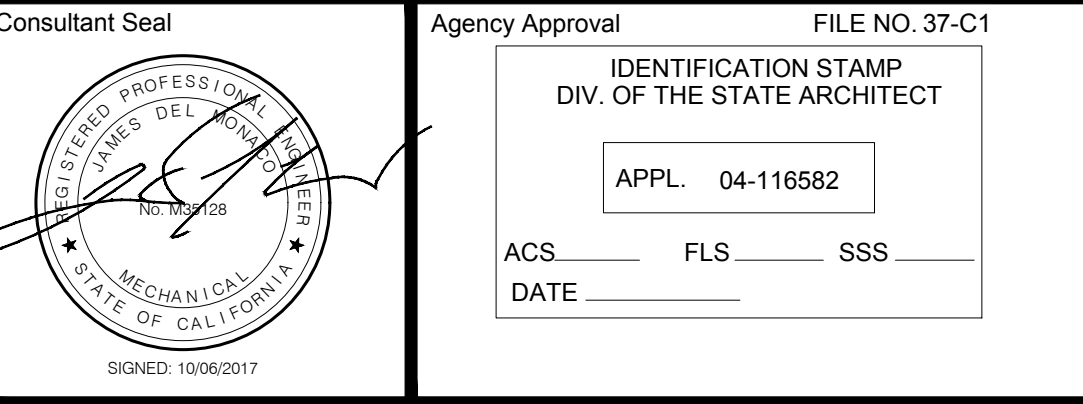
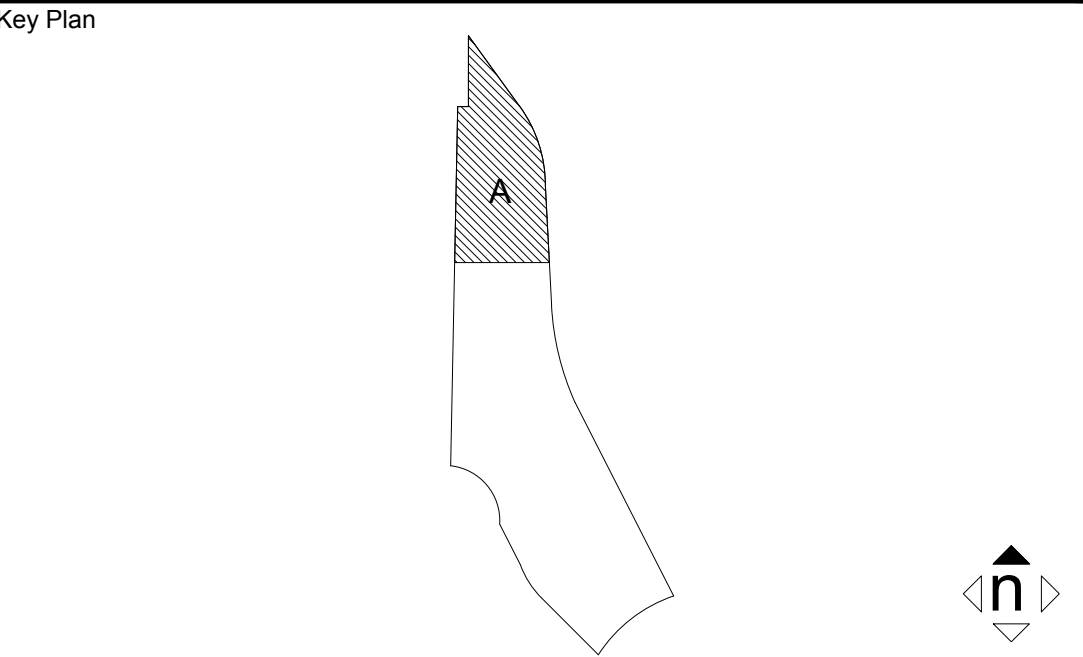
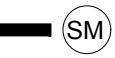
1. DRAIN PIPING SEWER WASTE, AND STORM DRAIN EXTERIOR BELOW GRADE:	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND STANDARD DUTY, SHIELDED, STAINLESS-STEEL COUPLINGS.	
2. DRAIN PIPING SEWER WASTE, AND STORM ABOVE GRADE:	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND STANDARD DUTY, SHIELDED, STAINLESS-STEEL COUPLINGS.	
3. VENT PIPING FOR SEWER WASTE/STORM ABOVE GRADE:	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND STANDARD, SHIELDED, STAINLESS-STEEL COUPLINGS.	
4. ACID WASTE AND VENT INTERIOR ABOVE/BELOW GRADE:	POLYPROPYLENE DRAINAGE PIPE AND FITTINGS, ASTM F-1412, SCHEDULE 40, WITH FIRE-RETARDANT ADDITIVE COMPLYING WITH ASTM D-4101 WITH FUSION AND MECHANICAL JOINT ENDS.	
5. DOMESTIC WATER PIPING BELOW GRADE:	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER FITTINGS WITH BRAZED JOINTS. AVOID UNNECESSARY JOINTS BELOW SLAB. PIPE WRAP ALL UNDERGROUND PIPING.	
6. DOMESTIC WATER PIPING ABOVE GRADE:	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD FREE-SOLDER JOINTS (OR) BRAZED W/0% BRAZING ROD.	
7. CONDENSATE DRAIN PIPING:	INDOOR	SCHEDULE 40, SOLID WALL PVC PIPE CONFORMING TO ASTM D 2665 WITH DWV FITTINGS CONFORMING TO ASTM D 3311 WITH ADHESIVE PRIMER CONFORMING TO ASTM F656 AND SOLVENT CEMENT CONFORMING TO ASTM D 2584 WITH INSULATION TO MEET ASTM E-84 25/50 FLAME/SMOKE RATING.
	OUTDOOR	TYPE 'M' COPPER PIPING, HARD DRAWN CONFORMING TO ASTM B88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND SOLDERED JOINTS.
8. INSULATION OF DOMESTIC HOT/TEMPERED WATER AND CONDENSATE DRAIN PIPING:	GLASS FIBER PIPE INSULATION WITH FACTORY-APPLIED JACKET CONFORMING TO ASTM C547, 1-INCH THICK FOR PIPE SIZES 1" & SMALLER, 1½-INCH THICK FOR PIPE SIZES 1½" INCHES & LARGER. SEAL ALL JOINTS WITH THE FACTORY-APPLIED, SELF-SEAL LAP AND BUTT STRIPS. JOHNS MANVILLE MICRO-LOK 'HP' OR EQUAL.	
9. GAS PIPING:	SEAMLESS SCHEDULE 40 CARBON STEEL ASTM A53 TYPE "S", GRADE A OR B WITH CLASS 150 MALLEABLE IRON THREADED FITTINGS ASME B16.3. DOMESTIC ONLY, IMPORTED PIPING ARE NOT ACCEPTABLE.	
10. GAS PIPING BELOW GRADE: (EXTERIOR SITE DISTRIBUTION)	POLYETHYLENE PIPE (PE) ORANGE OR YELLOW IN COLOR CONFORMING TO ASTM D 2513, SDR-11 AND IAPMO INSTALLATION STANDARD IS-12 WITH PE FITTINGS CONFORMING TO ASTM D-2683, SOCKET-FUSION TYPE OR ASTM D-3261 WITH DIMENSIONS MATCHING PE PIPE. P.E. TRANSITION FITTINGS, FACTORY-FABRICATED FITTINGS WITH PE COMPLYING WITH ASTM D-2513, SDR-11. PROTECTIVE COATING FOR UNDERGROUND PIPING, FACTORY APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE AND PE.	
11. COMPRESSED AIR (LA):	PIPING	OXY-MED GRADE TYPE 'L' HARD DRAWN TEMPER SEAMLESS COPPER TUBING, CLEANED, NITROGEN CHARGED & CAPPED SIMILAR TO CERROPURE WITH WROUGHT COPPER BRAZED FITTINGS.
	VALVE	ISOLATION BALL VALVES SHALL BE 3-PIECE BODY, BRASS OR BRONZE, FULL-PORT, WITH PTFE OR TFE SEATS.
12. VACUUM (LV):	PIPING	HARD COPPER TUBE, ASTM B88, TYPE L WATER TUBE, DRAWN TEMPER WITH WROUGHT COPPER SOLDER JOINT FITTINGS ASME B16.22.
	VALVE	ISOLATION BALL VALVES, COPPER ALLOY, MSS SP-110, 3-PIECE BODY, BRASS OR BRONZE, FULL-PORT, WITH PTFE OR TFE SEATS.
13. PIPE PROTECTION: ALL UNDERGROUND METALLIC PIPE WETHER BURIED OR ENCASED SHALL BE WRAPPED WITH ANTI-CORROSIVE 20 MIL PVC TAPE AND PRIMED OR INSTALLED IN 8 MIL POLYETHYLENE SLEEVE CONFORMING TO ASTM D-1246 AND/OR ANSI/AWWA C105/A21.5.		
14. PIPE PROTECTION: PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS JOINING DISSIMILAR METALS.		
15. TRACER WIRE: ALL UNDERGROUND ON-SITE PLASTIC GAS PIPE SHALL BE INSTALLED WITH BARE COPPER WIRE, TYPE TW, SIZE AWG#12 PLACED AND SECURED ON TO THE TOP OF THE MAINS AND BRANCHES WITH ALL WIRE TO WIRE CONNECTIONS SOLDERED FOR CONTINUITY.		

FIXTURE LOAD CALCULATION - PALOMAR

BASIS: 2016 CPC APPENDIX 'A' TABLE A-2 (WATER SUPPLY FIXTURE UNITS) & CHAPTER 7 TABLE 7-3 (DRAINAGE FIXTURE UNIT VALUES). VOLUME BASED ON 'PUBLIC' VALUES							
FIXTURE	QTY.	COLD WATER		HOT WATER		DRAINAGE/WASTE	
		FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU
LAB SINK	20	2.0	40.0	1.5	30.0	2.0	40.0
CUP SINK	5	1.0	5.0	1.0	5.0	2.0	10.0
ICE MACHINE	1	0.5	0.5			0.5	0.5
HOSE BIBB (1st)	1	2.5	2.5				
HOSE BIBB (each additional)	5	1.0	5.0				
TOTAL FIXTURE UNITS			53.0		35.0		50.5
EQUIVALENT GPM			30		44		51
INTERMITTENT FLOW, GPM			25				
TOTAL GPM			55				

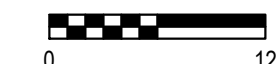
DOMESTIC WATER CALCULATION - PALOMAR

PRESSURE AVAILABLE :							
MINIMUM	=	100	PSI	PROVIDE PRV, SET @	70	PSI	
MAXIMUM	=	132	PSI				
DOMESTIC WATER DEMAND :	=	55	GPM				
WATER PRESSURE INFO OBTAINED BY:							
PRESSURE LOSS							
1. PRESSURE LOSS DUE TO METER LOSS @ CAMPUS MAIN					6	PSI	
2. PRESSURE LOSS THRU BACKFLOW DEVICE @ CAMPUS MAIN					12	PSI	
3. STATIC HEAD LOSS (5 ft. x 0.433)					2	PSI	
4. TOTAL PRESSURE LOSS					20	PSI	
5. PRESSURE AVAILABLE AT BUILDING					80	PSI	
6. PROVIDE PRESSURE REDUCING VALVE (PRV) SET @					70	PSI	
BUILDING PRESSURE LOSS							
7. MINIMUM PRESSURE REQUIRED					30	PSI	
8. STATIC HEIGHT (12' x 0.433)					5	PSI	
9. TOTAL BUILDING PRESSURE LOSS					35	PSI	
LOSS AVAILABLE FOR FRICTION							
10. ITEM 6 - ITEM 9					35	PSI	
LENGTH OF RUN FROM PRV TO FARTHEST FIXTURE							
OUTSIDE BUILDING					96	FT	
INSIDE BUILDING					88	FT	
11. TOTAL LENGTH					184	FT	
EQUIVALENT LENGTH OF RUN							
12. ITEM 7 + 25%					230	FT	
ALLOWABLE FRICTION LOSS							
13. ITEM 10 X 100 / ITEM 8					15.22	PSI/100 FT	
14. USE UNIFORM FRICTION LOSS					5.00	PSI/100 FT	
PIPE SIZE CHART FOR COLD WATER SIZING AT 5.0 PSI/100 FT., 8 F/S MAX VELOCITY							
PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2 1/2
GPM	1.98	5.8	12.3	22.1	35.7	76.0	136.8
FU (FT)	1	7	18	34	66	245	455
FU (FV)	0	0	0	5	20	124	329
VEL (FPS)	3.23	4.18	5.01	5.77	6.47	7.77	8.94
PIPE SIZE CHART FOR HOT WATER SIZING AT 5.0 PSI/100 FT., 5 F/S MAX VELOCITY							
PIPE SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
GPM	1.98	5.8	12.3	22.1	35.7	76.0	136.8
FU (FT)	1	7	16	28	46	119	245
VEL (FPS)	3.23	4.18	5.01	5.77	6.47	7.77	8.94

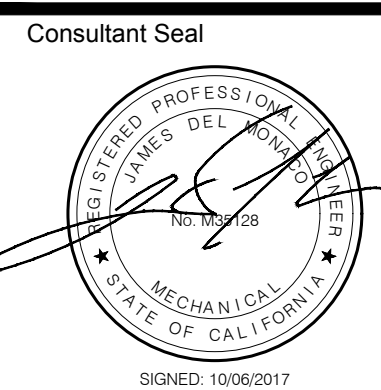
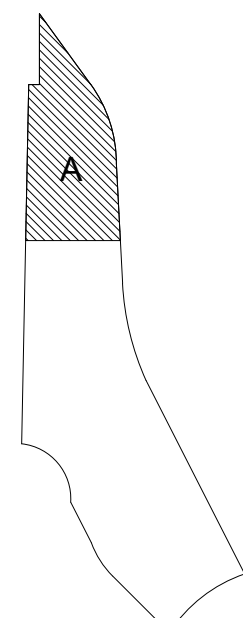



No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017
2		
3		
4		
5		
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7		
8		
9		
10		

Drawing Title: SCHEDULES		Project No. 5015019-102	
Architect's Seal		Designed: RC	Scale: Not To Scale
Drawn: MU		QAQC: JDM	Drawing No. P0.02
Date: 10/13/2017			



- 1 REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2 DEMAND = 1080 CFH @ 400 FT TOTAL EQUIVALENT PIPE LENGTH FROM GAS CO. METER/REGULATOR ASSEMBLY TO GPR-1.
- 3 REFER TO P.01 FOR CONTINUATION.
- 4 SHUT OFF VALVE IN YARBOK.



Consultant Seal 	Agency Approval <div style="border: 1px solid black; padding: 5px; margin: 5px;"> IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT <div style="border: 1px solid black; padding: 5px; margin: 5px;"> APPL. 04-116582 </div> </div> ACS _____ FLS _____ SSS _____ DATE _____
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Project Title Palomar North Education Center - Interim Village


PALOMAR COLLEGE Palomar College
 Learning for Success

35090 Horse Ranch Creek Road
 Fallbrook, CA 92028

No.	Description	Date
	DSA SUBMITTAL - PHASE IV	10/13/2017

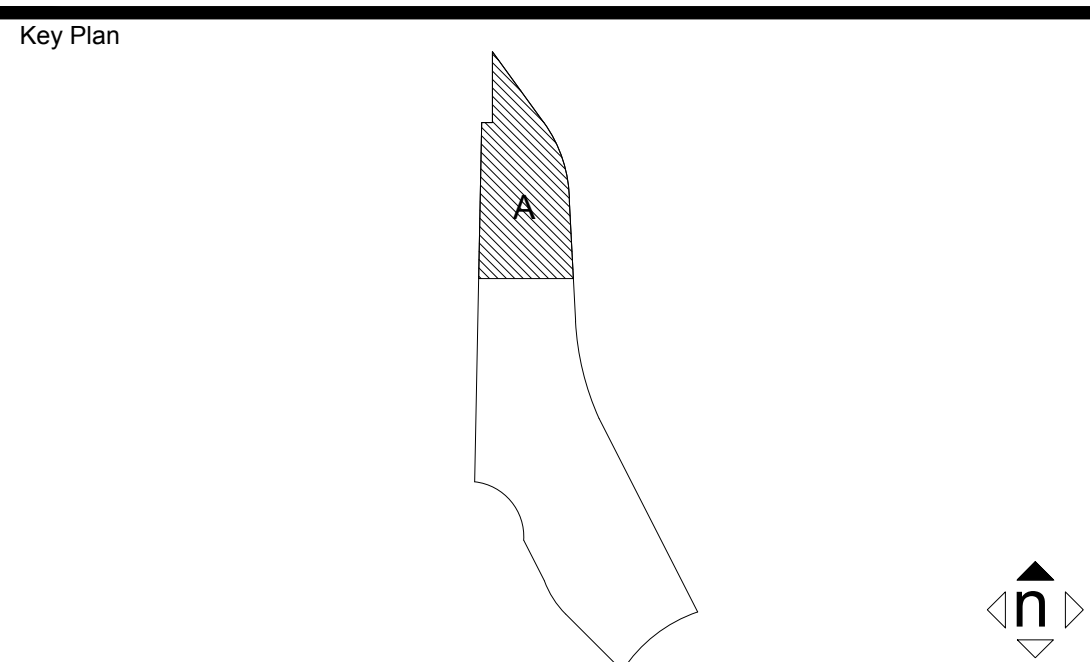
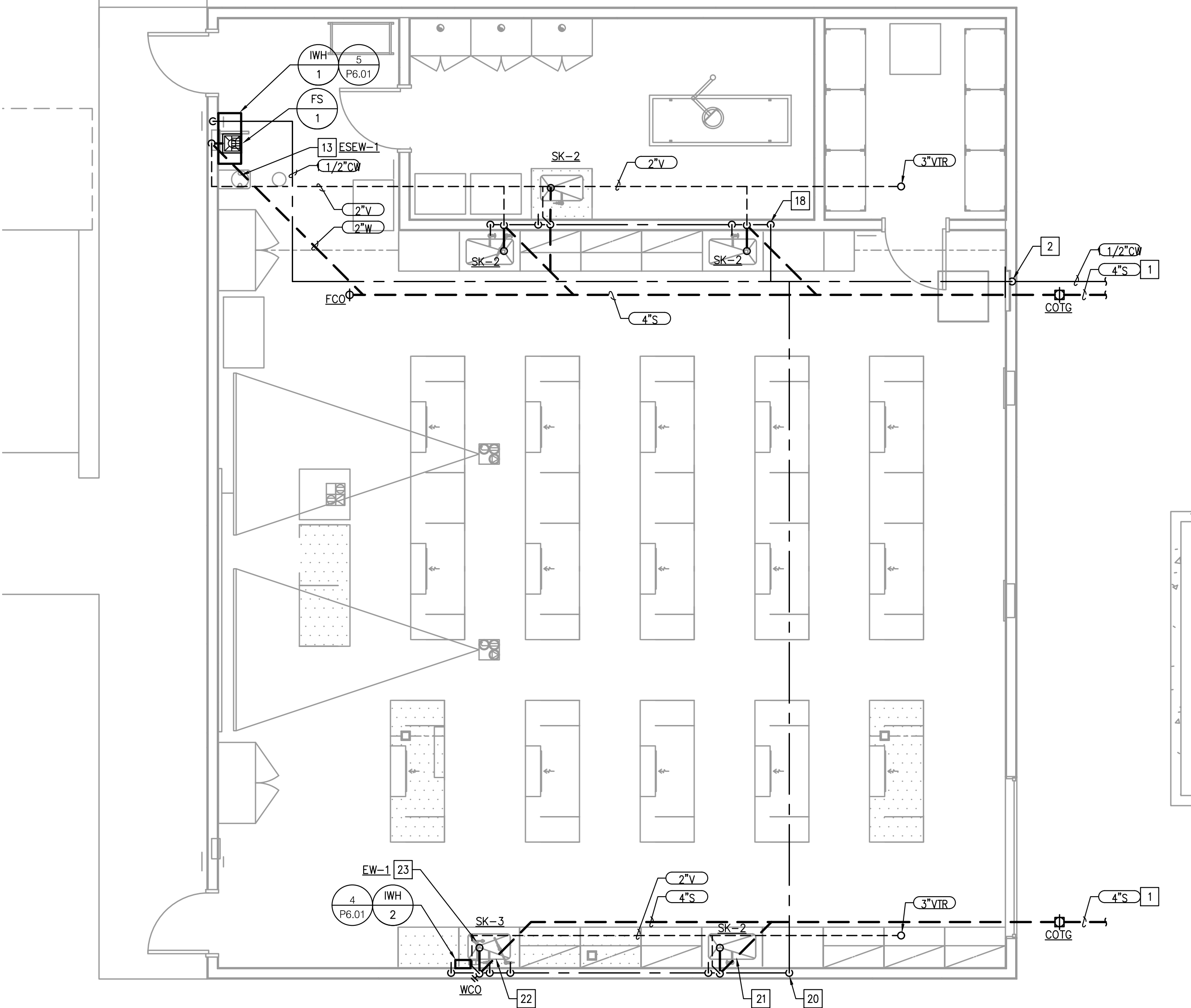
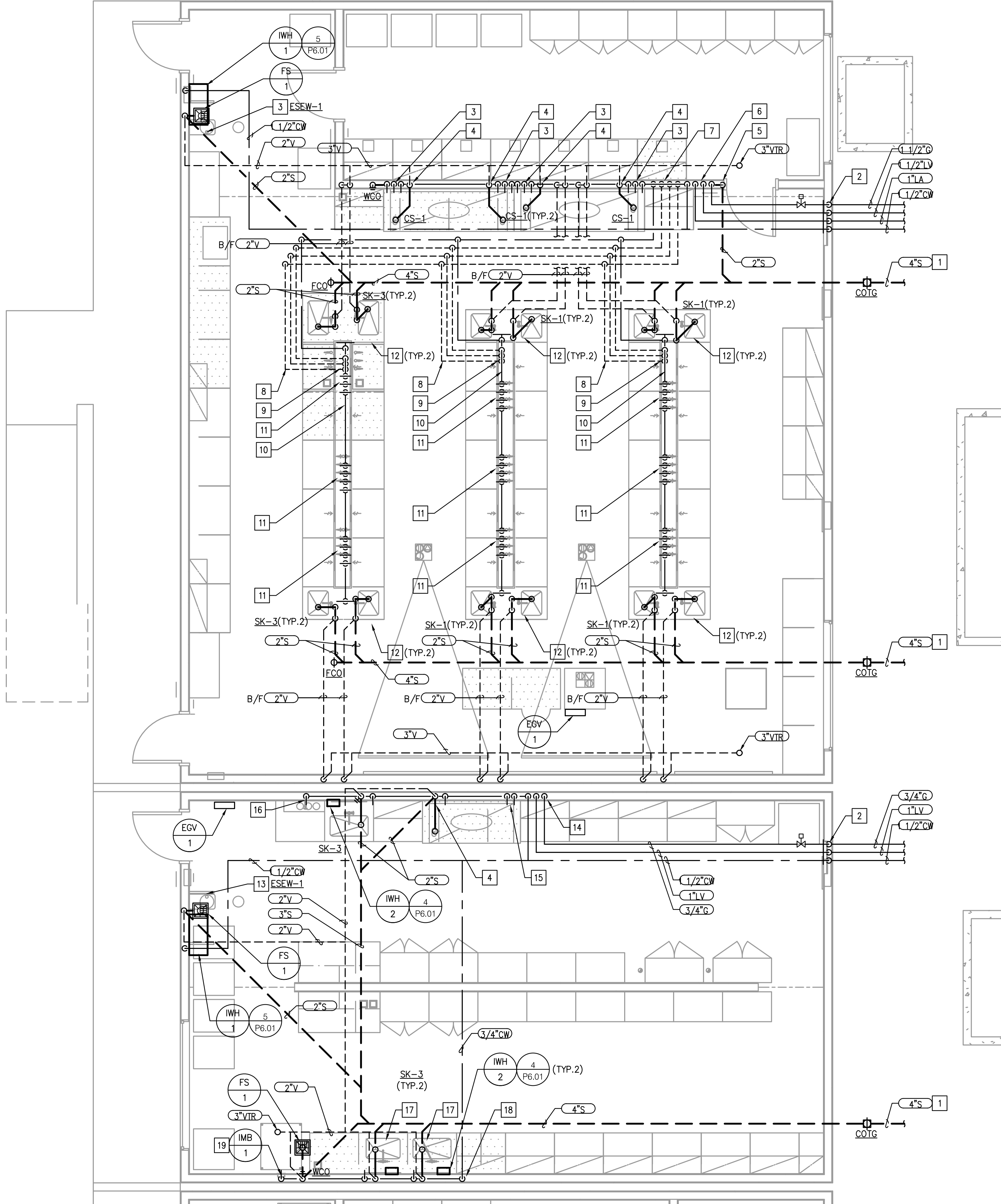
Drawing Title:
Plumbing Site Plan



	Designed:	RC	Project No.	5015019-19
	Drawn:	MU	Scale:	3/32" = 1'
	QA/QC	JDM	Drawing No.	P1.01
	Date:	10/13/2017		

NOTES

- 1 REFER TO P101 FOR CONTINUATION.
- 2 PROVIDE SHUT-OFF VALVES ON RISE WITH ACCESS PANEL.
- 3 ROUGH-IN AND CONNECT 1/2" CW, 3/4" LV, & 1/2" G TO FUMEHOOD PLUMBING CONNECTIONS.
- 4 ROUGH-IN AND CONNECT P-TRAP ASSEMBLY, 2" W, & 1 1/2" V TO FUMEHOOD CUPSINK.
- 5 2" W FULL SIZE HEADER DOWN TO BELOW FLOOR.
- 6 1" G, 1 1/2" LV, 1" LA, 1 1/2" CW DOWN TO FULL SIZE HEADER.
- 7 1" G, 1 1/2" LV, 1" LA, 1 1/4" CW DOWN TO BELOW FLOOR.
- 8 1" G, 1 1/2" LV, 1" LA, 1" CW BELOW FLOOR.
- 9 1" G, 1 1/2" LV, 1" LA, 1" CW UP TO ISLAND BENCH PIPE CHASE.
- 10 1" G, 1 1/2" LV, 1" LA, 1" CW FULL SIZE HEADER. INSTALL TO ONE SIDE OF EXHAUST DUCT.
- 11 LAB GAS TURRETS SPECIFIED UNDER LAB FURNITURE DRAWINGS. ROUGH-IN AND CONNECT 1/2" G, 3/4" V, AND 1/2" LA.
- 12 LAB SINK SPECIFIED UNDER LAB FURNITURE DRAWINGS. ROUGH-IN AND CONNECT 1/2" CW, AND A 2" ISLAND WASTE AND VENT. REFER TO DETAIL 1/P6.02.
- 13 PROVIDE WITH 1 1/4" TWS FROM IWH-1.
- 14 3/4" G, 1" LV, 3/4" CW DOWN TO FULL SIZE HEADER.
- 15 ROUGH-IN AND CONNECT 1/2" CW, 3/4" LV, & 1/2" G TO FUMEHOOD PLUMBING CONNECTIONS.
- 16 WALL TURRET SPECIFIED UNDER LAB FURNITURE DRAWINGS. ROUGH-IN AND CONNECT 1/2" CW.
- 17 LAB SINK SPECIFIED UNDER LAB FURNITURE DRAWINGS. ROUGH-IN AND CONNECT 1/2" CW, 1/2" HW FROM IWH-2, 2" S, AND 1 1/2" V.
- 18 3/4" CW DOWN TO FULL SIZE HEADER.
- 19 1/2" CW TO IMB-1.
- 20 1" CW DOWN TO FULL SIZE HEADER.
- 21 LAB SINK SPECIFIED UNDER LAB FURNITURE DRAWINGS. ROUGH-IN AND CONNECT 1/2" CW, 2" S, AND 1 1/2" V.
- 22 LAB SINK SPECIFIED UNDER LAB FURNITURE DRAWINGS. ROUGH-IN AND CONNECT (2) 1/2" CW, 2" S, AND 1 1/2" V.
- 23 PROVIDE WITH 3/4" TWS FROM IWH-2.



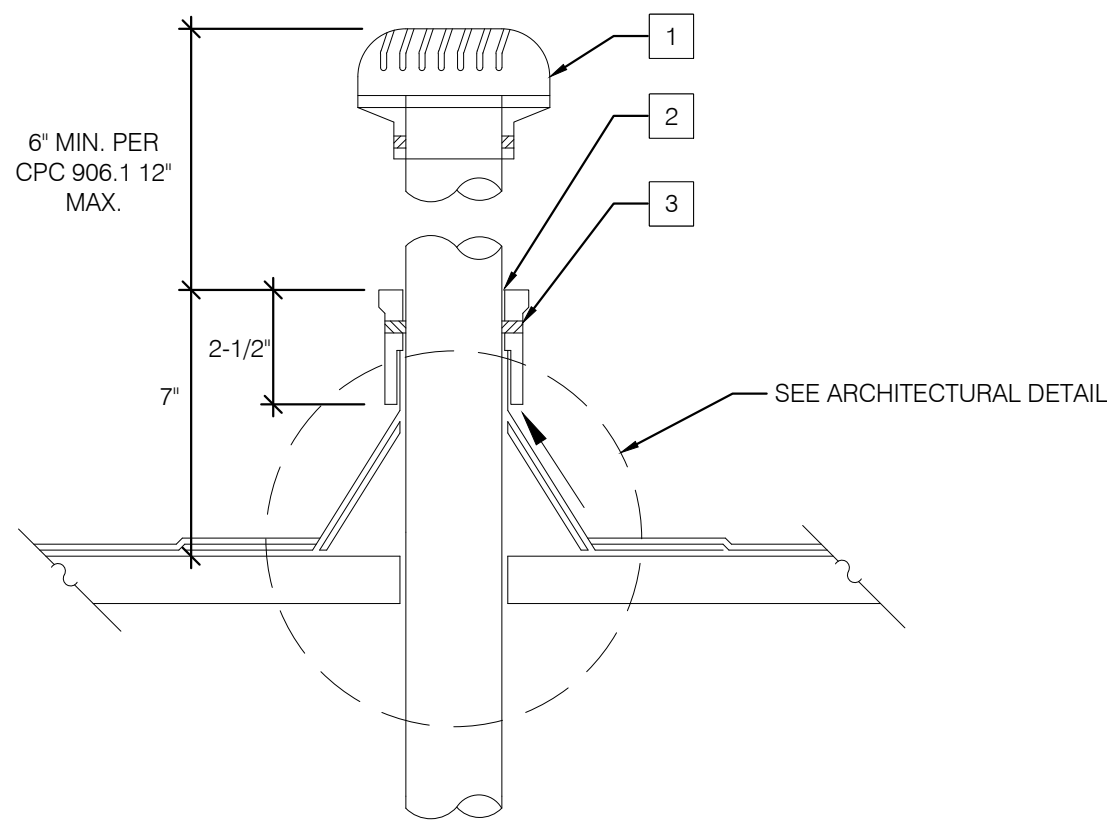
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	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	APPL. 04-116582	
	ACS. FLS. SSS.	
	DATE	

Project Title	Palomar North Education Center - Interim Village
	Palomar College
	35090 Horse Ranch Creek Road
	Fallbrook, CA 92028

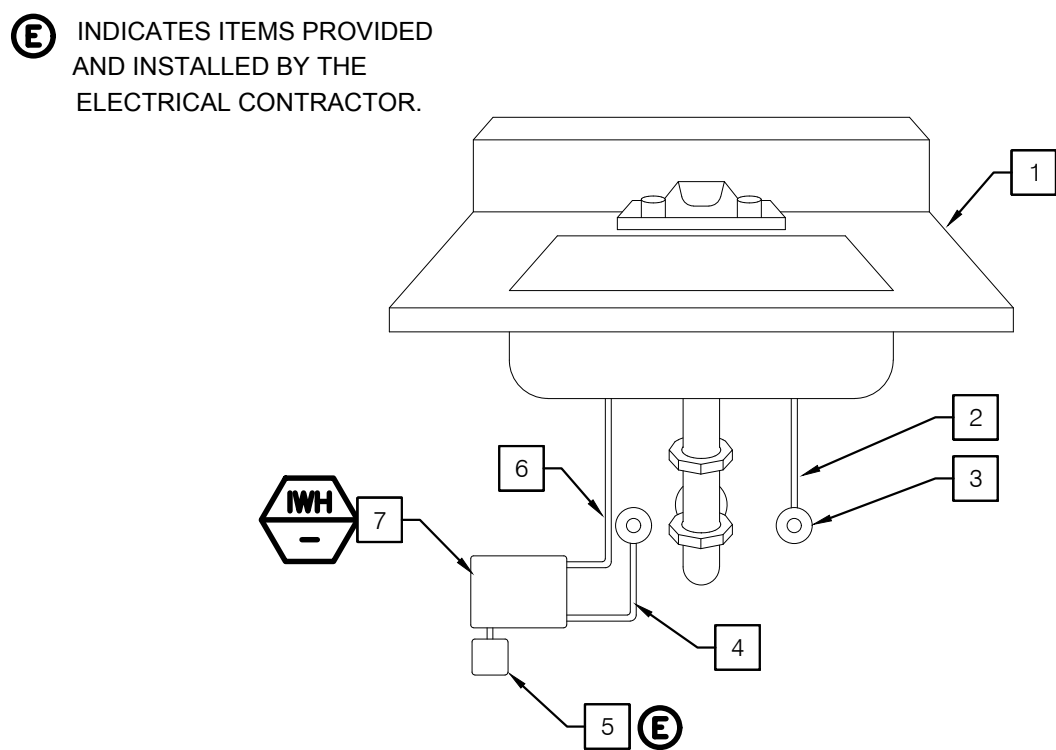
No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
Plumbing Floor Plan

Architect's Seal	Designed: RC	Project No. 5015019-102
	Drawn: MU	Scale: 1/4"=1'-0"
	QA/QC: JDM	Drawing No. P2.01
	Date: 10/13/2017	

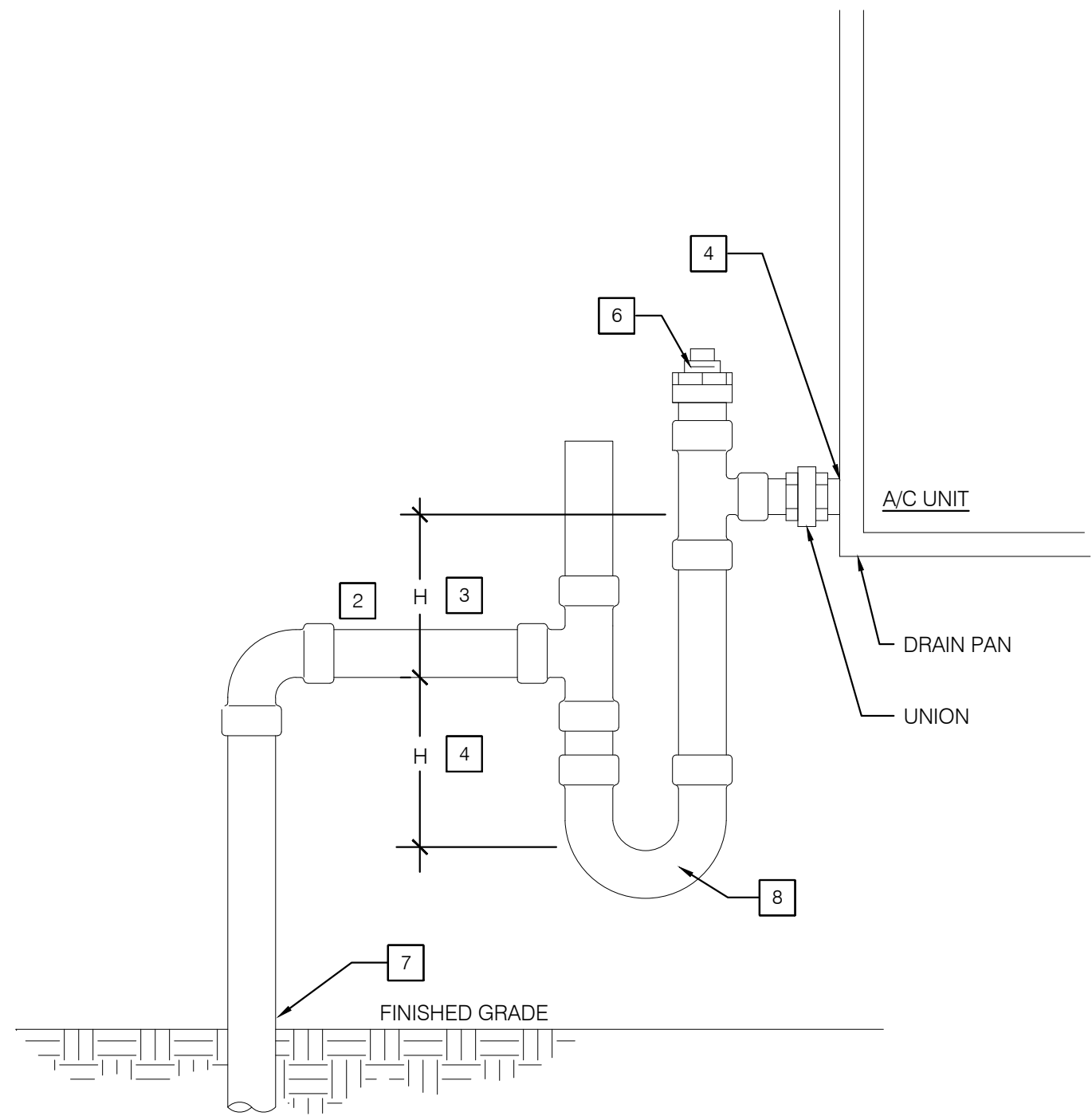


- NOTES
- HOOD FOR VENT PIPE ATTACHED WITH VANDER PROOF SET SCREWS.
 - WATER PROOFING COMPOUND.
 - COUNTER FLASHING SLEEVE ATTACHED WITH VANDAL PROOF SET SCREWS.



NOTES

- SINK OR LAVATORY
- 1/2" CW SUPPLY
- ANGLE VALVE, CHICAGO NO. 1006 (TYP.)
- 1/2" CW TO IWH
- JUNCTION BOX
- 1/2" HW SUPPLY
- SECURE UNIT TO WALL
- 1 1/4" NPT INLET.



NOTES

- ALL CONDENSATE DRAIN LINES WITHIN BUILDING SHALL BE INSULATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 15400, PLUMBING SPECIFICATIONS.
- SEE DRAWING FOR SIZES.
- CONDENSATE PIPE HEIGHT "H" SHALL EQUAL FAN INLET PRESSURE (IN. WC.) PLUS 1.0 INCH. "H" SHALL BE MINIMUM 6 INCHES.
- DEPTH SAME AS NOTE 3.
- DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE NIPPLE ON THE DRAIN PAN.
- BRASS CLEANOUT PLUG (THREADED)
- FOR CONTINUATION OF PIPING. SEE PLANS.
- TYPE "L" COPPER TUBING WITH WROUGHT COPPER FITTINGS

VENT THRU ROOF

6

NO SCALE

SINK/LAVATORY INSTANTANEOUS WATER HEATER

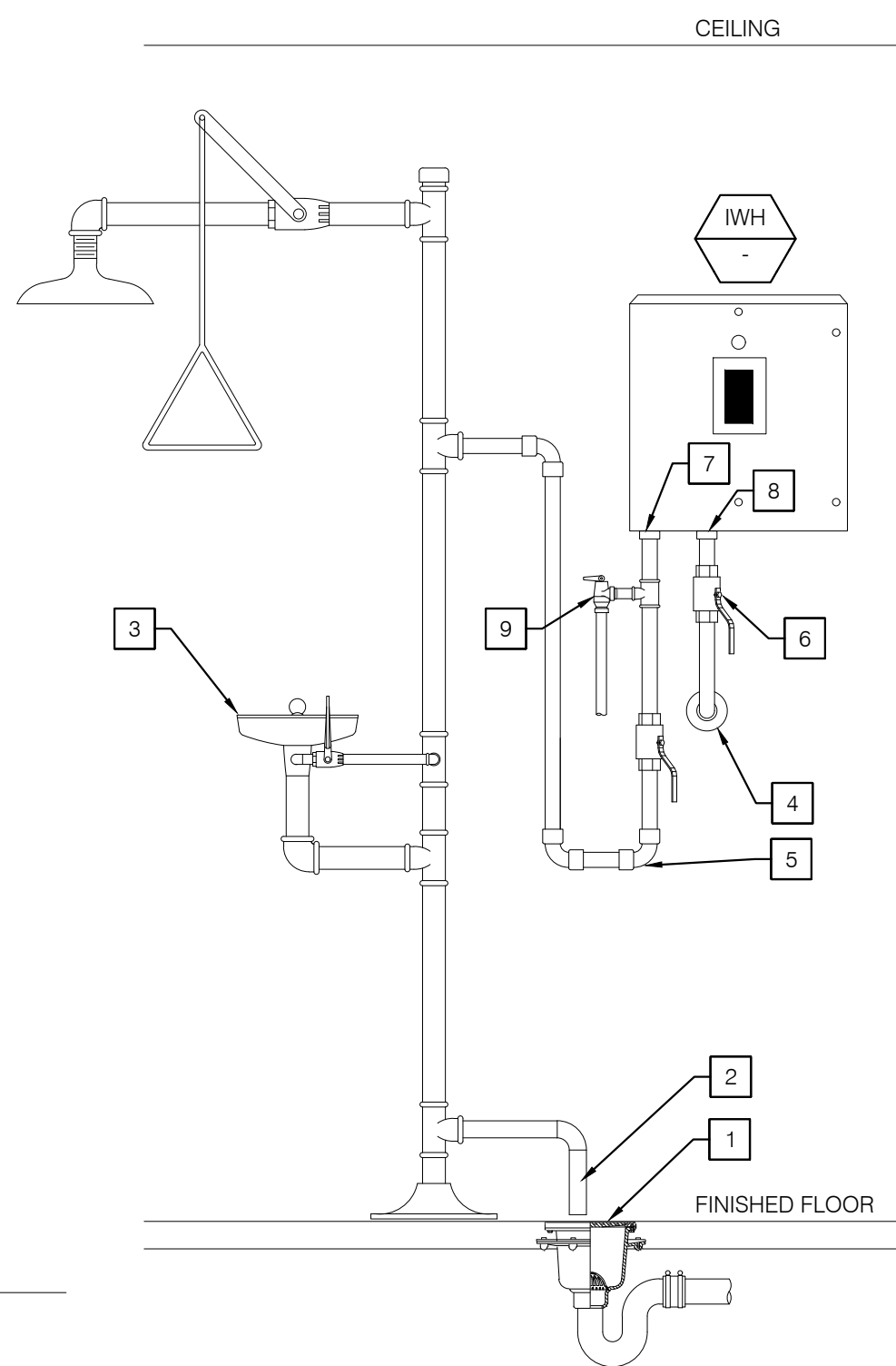
4

NO SCALE

CONDENSATE TRAP

2

NO SCALE



NOTES

- FLOOR SINK.
- 1 1/4" WASTE. TERMINATE AT FLOOR SINK WITH 2" AIR GAP.
- EMERGENCY EYE/FACEWASH AND DRENCH SHOWER.
- 1 1/4" CW SUPPLY. PROVIDE WITH ESCUTCHEON PLATE.
- 1 1/4" TEMPERED WATER SUPPLY (85° F).
- BALL-TYPE SHUT-OFF VALVE (TYP.).
- 1 1/4" NPT OUTLET.
- 1 1/4" NPT INLET.
- TEMPERATURE & PRESSURE RELIEF VALVE. TERMINATE 3/4" RELIEF DISCHARGE TO NEAREST FLOOR RECEPTOR WITH 2" MIN. AIR GAP.

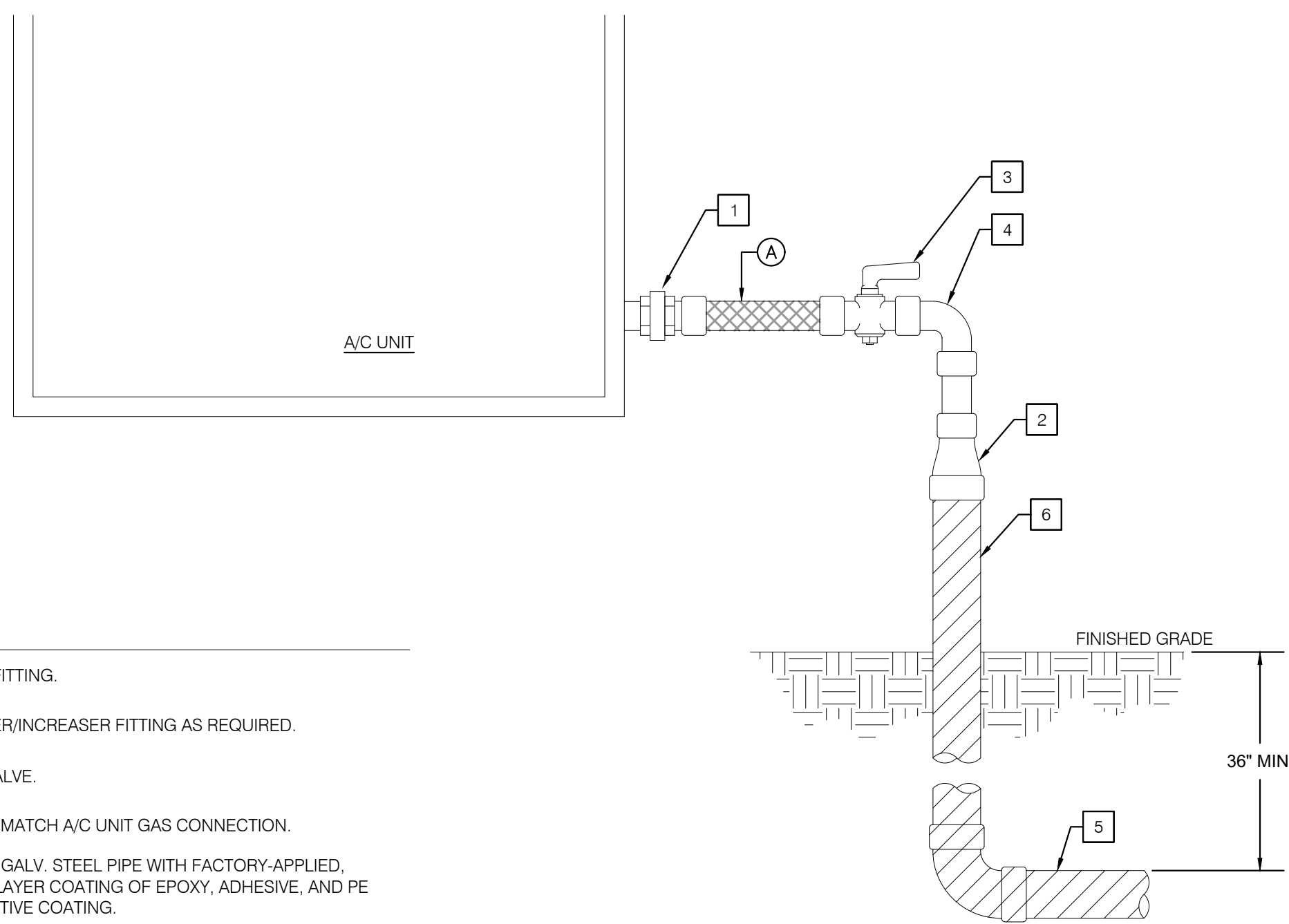
TYPICAL EMERGENCY EYE WASH/SHOWER WITH IWH DETAIL

5

NO SCALE

DORMONT GAS APPLIANCE CONNECTION

SIZE	(A) PART NO.
1/2"	31-3132-12
3/4"	41-4142-12
1"	51-5152-12
1-1/4"	61-6162-12



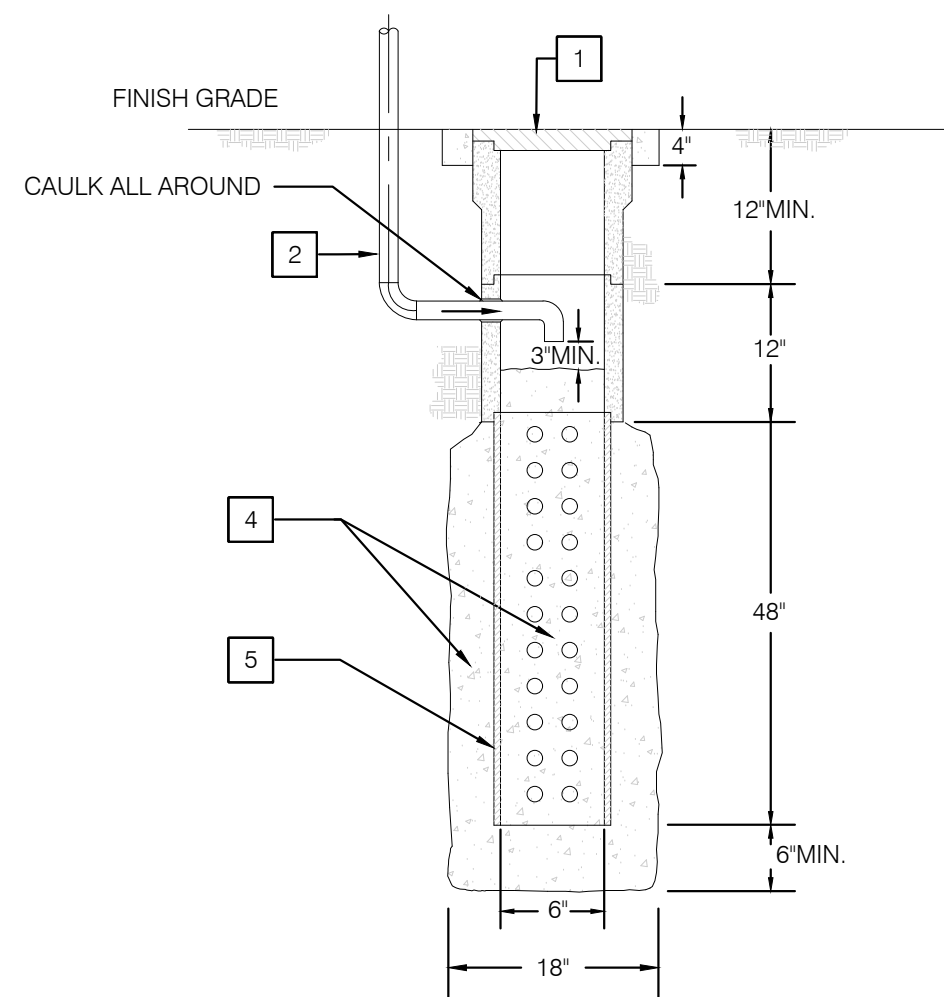
NOTES

- UNION FITTING.
- REDUCER/INCREASER FITTING AS REQUIRED.
- PLUG VALVE.
- SIZE TO MATCH A/C UNIT GAS CONNECTION.
- SCH. 40 GALV. STEEL PIPE WITH FACTORY-APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE, AND PE PROTECTIVE COATING.
- WRAP PIPING TO +6" ABOVE GRADE (MIN).

VENT THRU ROOF

3

NO SCALE



NOTES

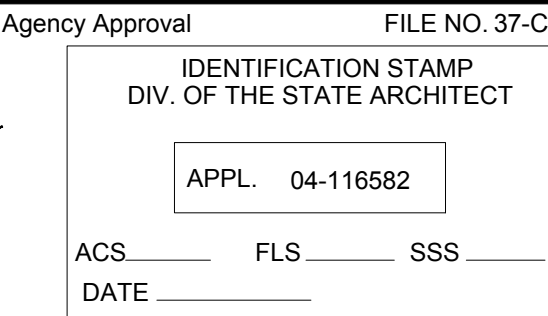
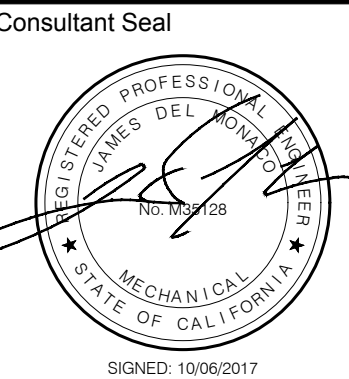
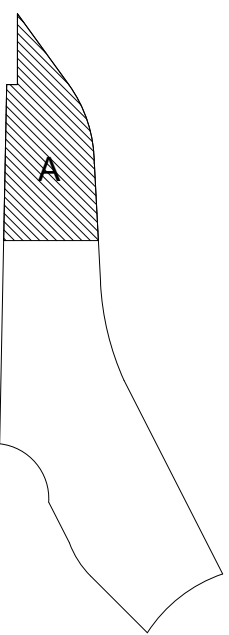
- 6" DIA. TRAFFIC WEIGHT GALVANIZED COVER WITH BROOKS CONCRETE YARD BOX.
- INDIRECT WASTE PIPE FROM MECHANICAL EQUIPMENT. PROVIDE 3" MINIMUM AIR GAP.
- PROVIDE 6'0" SECTION OF PERFORATED PVC PIPE.
- PEA GRAVEL.

DRYWELL

1

NO SCALE

Key Plan



Project Title



Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

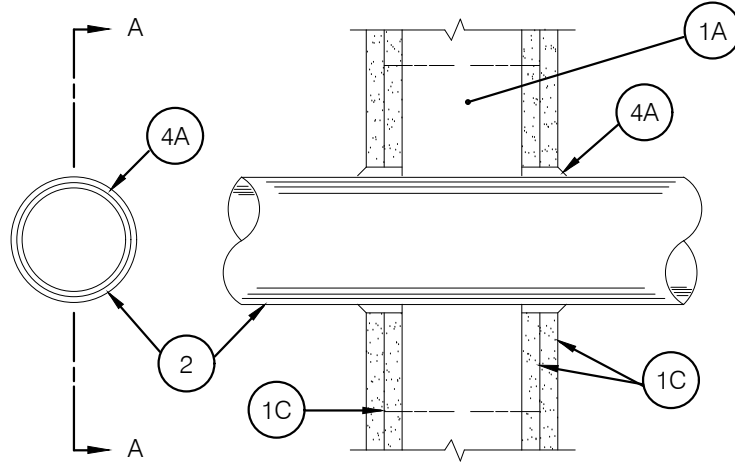
Details



Designed: RC Project No. 5015019-102
Drawn: MU Scale: Not To Scale
QAQC JDM Drawing No.
Date: 10/13/2017
P6.01

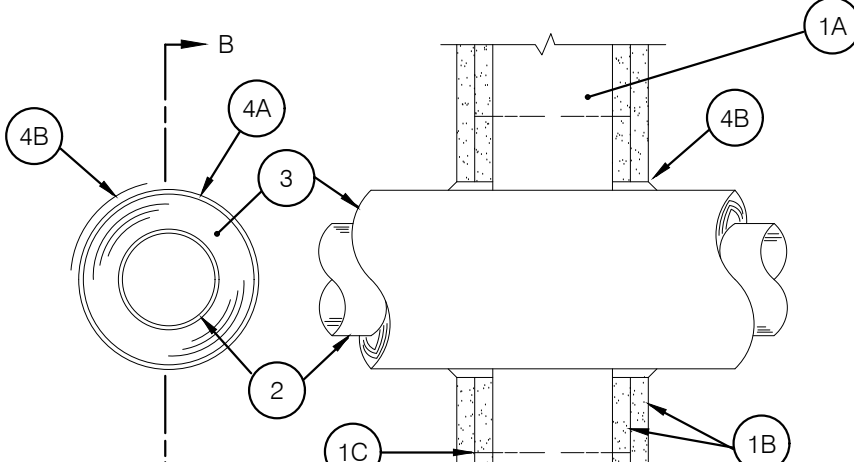
SYSTEM NO. WL1001 F RATINGS-1 AND 2 HR. (SEE ITEM 4) T RATINGS-0, 1, 1-1/2" AND 2HR. (SEE ITEM 4)

FIRESTOP CONFIGURATION 'A'



SECTION A-A

FIRESTOP CONFIGURATION 'B'



SECTION B-B

1. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS AND THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS (EQUIPMENT) HAVE BEEN ANCHORED:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2 BY 4 INCH LUMBER SPACED 16 INCH O.C. WITH NOMINAL 2 BY 4 INCH LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3-5/8 INCH WIDE BY 1-3/8 INCH DEEP CHANNELS WITH NOMINAL 1/4 INCH FOLDED-BACK RETURN ON FLANGE EDGES, FORMED FROM MINIMUM 0.025 INCH THICK (NO. 25 GAUGE) GALVANIZED STEEL. STEEL STUDS CUT 3/4 INCH LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH ENDS NESTING IN AND SECURED TO CHANNEL-SHAPED GALVANIZED STEEL FLOOR AND CEILING TRACKS WITH 1/2 INCH LONG TYPE S-12 SELF-DRILLING, SELF-TAPPING STEEL SCREWS ON BOTH SIDES OF STUDS OR BY WELDING OR BOLTED CONNECTIONS DESIGNED IN ACCORDANCE WITH AISI SPECIFICATIONS. STEEL STUD SPACING NOT TO EXCEED 24 INCHES O.C.

B. WALLBOARD GYPSUM - 5/8 INCH THICK 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. ANY GYPSUM WALLBOARD BEARING THE UL CLASSIFICATION MARKING AS TO FIRE RESISTANCE. WALLBOARD INSTALLED VERTICALLY ON BOTH SIDES OF STUD FRAMING WITH JOINTS CENTERED OVER STUDS AND WITH JOINTS ON OPPOSITE SIDES OF WALL STAGGERED ONE STUD. FOR 1 HOUR FIRE-RATED WALL ASSEMBLY, A SINGLE LAYER OF GYPSUM WALLBOARD IS REQUIRED. FOR 2 HOUR FIRE-RATED WALL ASSEMBLY, TWO LAYERS OF GYPSUM WALLBOARD IS REQUIRED WITH OUTER LAYER JOINTS STAGGERED ONE STUD FROM INNER LAYER JOINTS.

SEE WALLBOARD, GYPSUM (CKXX) CATEGORY IN UL FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

C. FASTENERS - WHEN WOOD STUD FRAMING IS EMPLOYED FOR 1 HOUR FIRE-RATED WALL ASSEMBLY, GYPSUM WALLBOARD ATTACHED TO STUDS WITH 1-7/8 INCH LONG 6D CEMENT-COATED NAILS SPACED 6 TO 8 INCH O.C. AT JOINT EDGES AND IN THE FIELD. OUTER LAYER OF GYPSUM WALLBOARD ATTACHED TO STUDS WITH 2-3/8 INCH LONG 8D CEMENT-COATED NAILS SPACED 6 TO 8 INCH O.C. AT JOINT EDGES AND IN THE FIELD. WHEN STEEL CHANNEL STUD FRAMING IS EMPLOYED FOR 1 HOUR FIRE-RATED WALL ASSEMBLY, GYPSUM WALLBOARD ATTACHED TO STUDS WITH 1 INCH LONG TYPE S SELF-DRILLING, SELF-TAPPING BUGLE-HEAD STEEL SCREWS SPACED 8 INCH O.C. AT JOINT EDGES AND 8 TO 12 INCH O.C. IN THE FIELD. WHEN STEEL CHANNEL STUD FRAMING IS EMPLOYED FOR 2 HOUR FIRE-RATED WALL ASSEMBLY, INNER LAYER OF GYPSUM WALLBOARD ATTACHED TO STUDS WITH 1 INCH LONG TYPE S SELF-DRILLING, SELF-TAPPING BUGLE-HEAD STEEL SCREWS SPACED MAXIMUM 12 INCHES O.C. AT JOINT EDGES AND IN THE FIELD. OUTER LAYER OF GYPSUM WALLBOARD ATTACHED TO STUDS WITH 1-5/8 INCH LONG TYPE S SELF-DRILLING, SELF-TAPPING BUGLE-HEAD STEEL SCREWS SPACED MAXIMUM 12 INCH O.C. AT JOINT EDGES AND IN THE FIELD.

D. JOINT TAPE AND COMPOUND - (NOT SHOWN) - VINYL OR CASEIN, DRY OR PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW OR NAIL HEADS OF OUTER LAYER OF GYPSUM WALLBOARD. PERFORATED PAPER TAPE, 2 INCH WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS OF OUTER LAYER OF GYPSUM WALLBOARD.

2. STEEL PIPE OR CONDUIT - NOM 12 INCH DIAMETER (OR SMALLER) SCHEDULE 10S (OR HEAVIER) STEEL PIPE, NOM 6 INCH DIAMETER (OR SMALLER) RIGID STEEL CONDUIT, NOM 4 INCH DIAMETER (OR SMALLER) STEEL E.M.T. CONDUIT OR NOM 1 INCH DIAMETER (OR SMALLER) FLEXIBLE STEEL CONDUIT. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 INCH DIAMETER MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAXIMUM OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3. PIPE COVERING - (OPTIONAL) - NOM 1 OR 2 INCH THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN. 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH POLY-SCORPHEMANT. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OF FACTORY-APPLIED SSL. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT.

SEE PIPE AND EQUIPMENT COVERINGS - MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD VALUE OF 25 OR LESS AND A SMOKE DEVELOPED VALUE OF 50 OR LESS MAY BE USED.

4. FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EITHER 1 OR 2 HOURS DEPENDING UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE HOURLY T RATINGS FOR THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE SIZE OF THE STEEL PIPE OR CONDUIT, THE ABSENCE OR PRESENCE OF PIPE COVERINGS (ITEM NO. 3), THE FIRESTOP CONFIGURATION AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE FIRESTOP CONFIGURATION (A, B, C OR D) IS DEPENDENT UPON THE SIZE OF THE ANNULAR SPACE BETWEEN THE STEEL PIPE OR CONDUIT (OR PIPE COVERINGS) AND THE PERIMETER OF THE CIRCULAR THROUGH OPENING IN THE GYPSUM WALLBOARD LAYERS, AS TABULATED BELOW:

MAX. PIPE OR CONDUIT DIAMETER	NOM PIPE COVERING THKNS	ANNULAR SPACE	FIRESTOP CONFIG. (A)	T RATING
1 INCH	NONE	0-3/16"	A	1 OR 2H
4 INCH	NONE	0-1/4"	A	0H
12 INCH	NONE	3/16-5/16"	A	0H
4 INCH	NONE	1/4-3/8"	B	0H
12 INCH	1 INCH	1/4-3/8"	B	1 OR 1-1/2H
12 INCH	2 INCH	1/2-3/4"	B	1 OR 1-1/2H
1 INCH	1 INCH	0-3/16"	C	1 OR 2H
12 INCH	NONE	1-1/4"	C	0H

(A), B, C AND D INDICATE FIRESTOP CONFIGURATION, AS DESCRIBED IN THE FOLLOWING:

FIRESTOP CONFIGURATION A

FILL VOID OR CAVITY MATERIAL* - CAULK/CAULK FILL MATERIAL FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE AND WITH A MIN. 1/4 INCH DIAMETER BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL.

MINNESOTA MINING & MANUFACTURING CO. - TYPES CP-25 SIL, CP-25 N/S.

FIRESTOP CONFIGURATION B

FILL VOID OR CAVITY MATERIALS* - NOM 1/4 INCH THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 INCH WIDE STRIPS. NOM. 2 INCH WIDE STRIP TIGHTLY WRAPPED AROUND STEEL PIPE, STEEL CONDUIT OR PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLIDE INTO ANNULAR SPACE APPROXIMATELY 1-1/4" SUCH THAT APPROXIMATELY 3/4 INCH OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 INCH THICK PIPE COVERING IT USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 INCH THICK PIPE COVERING IS USED.

MINNESOTA MINING & MANUFACTURING CO. - TYPES FS-195

FILL VOID OR CAVITY MATERIALS* - CAULK - MINIMUM 1/4 INCH DIAMETER CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROXIMATELY 3/4 INCH FROM THE WALL SURFACE.

MINNESOTA MINING & MANUFACTURING CO. - TYPES CP-25 SIL, CP-25 N/S

FIRE RATED PENETRATIONS

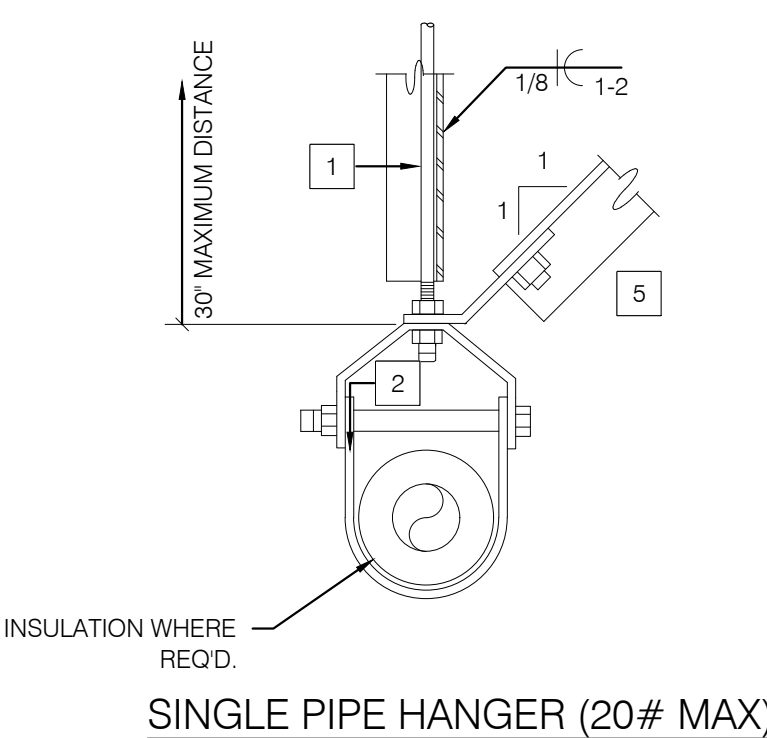
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NO SCALE

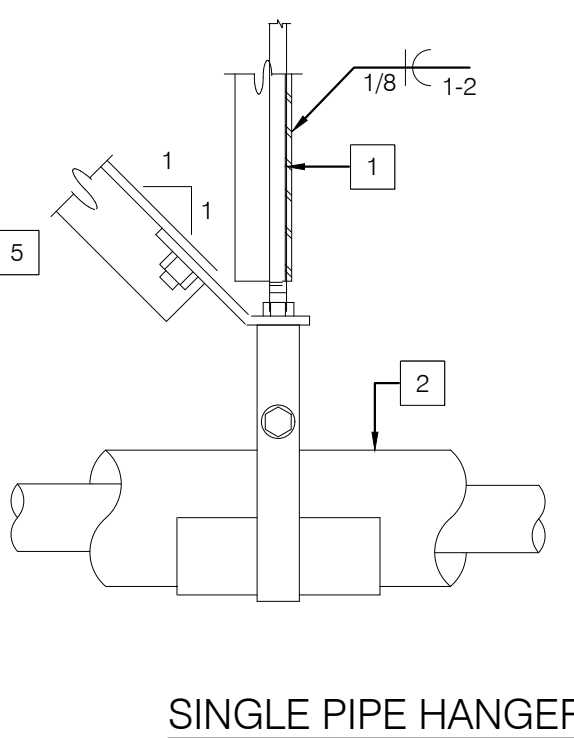
GAS REGULATOR AND EARTHQUAKE VALVE ASSEMBLY DETAIL

2

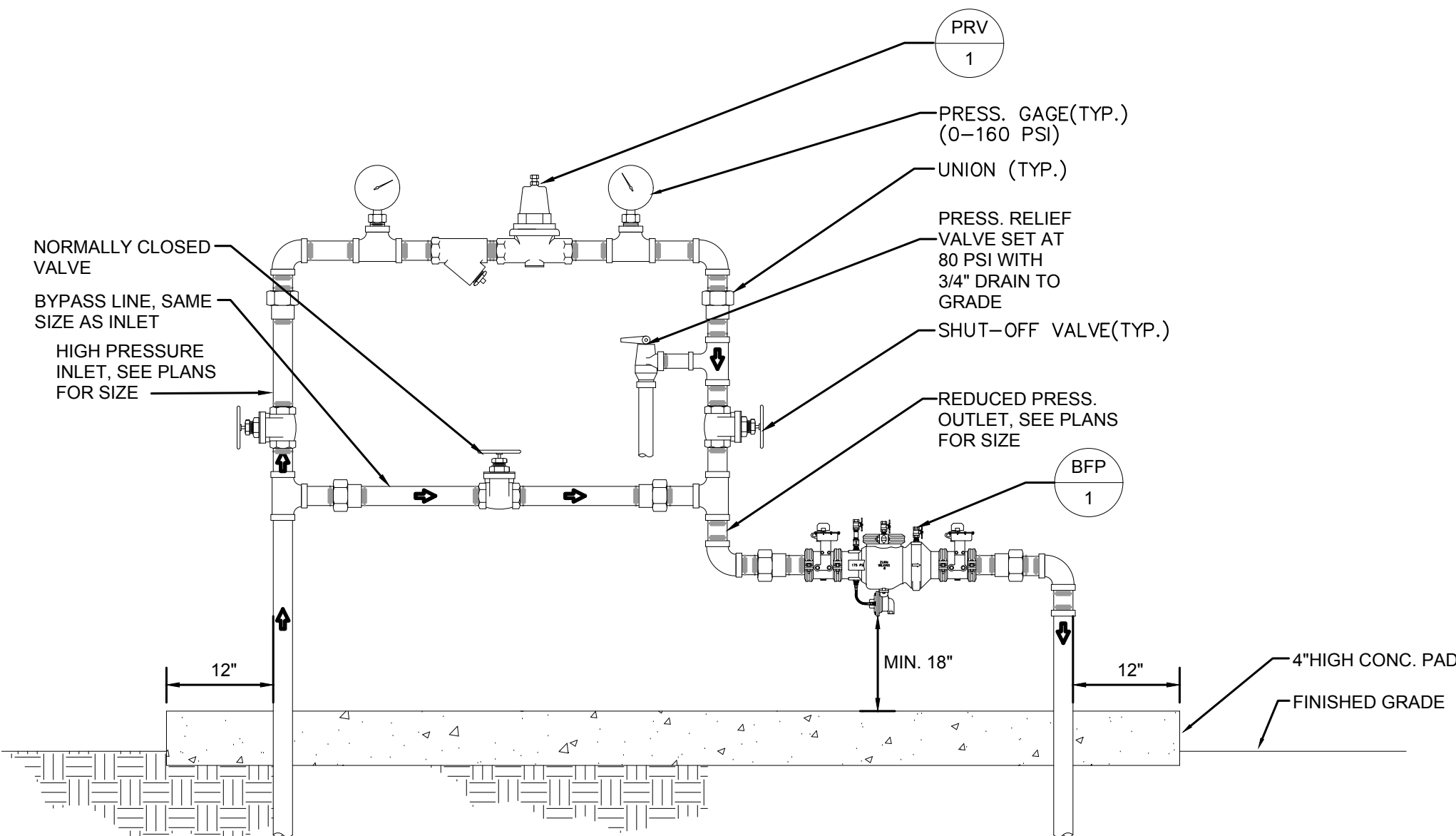
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SINGLE PIPE HANGER (20# MAX)

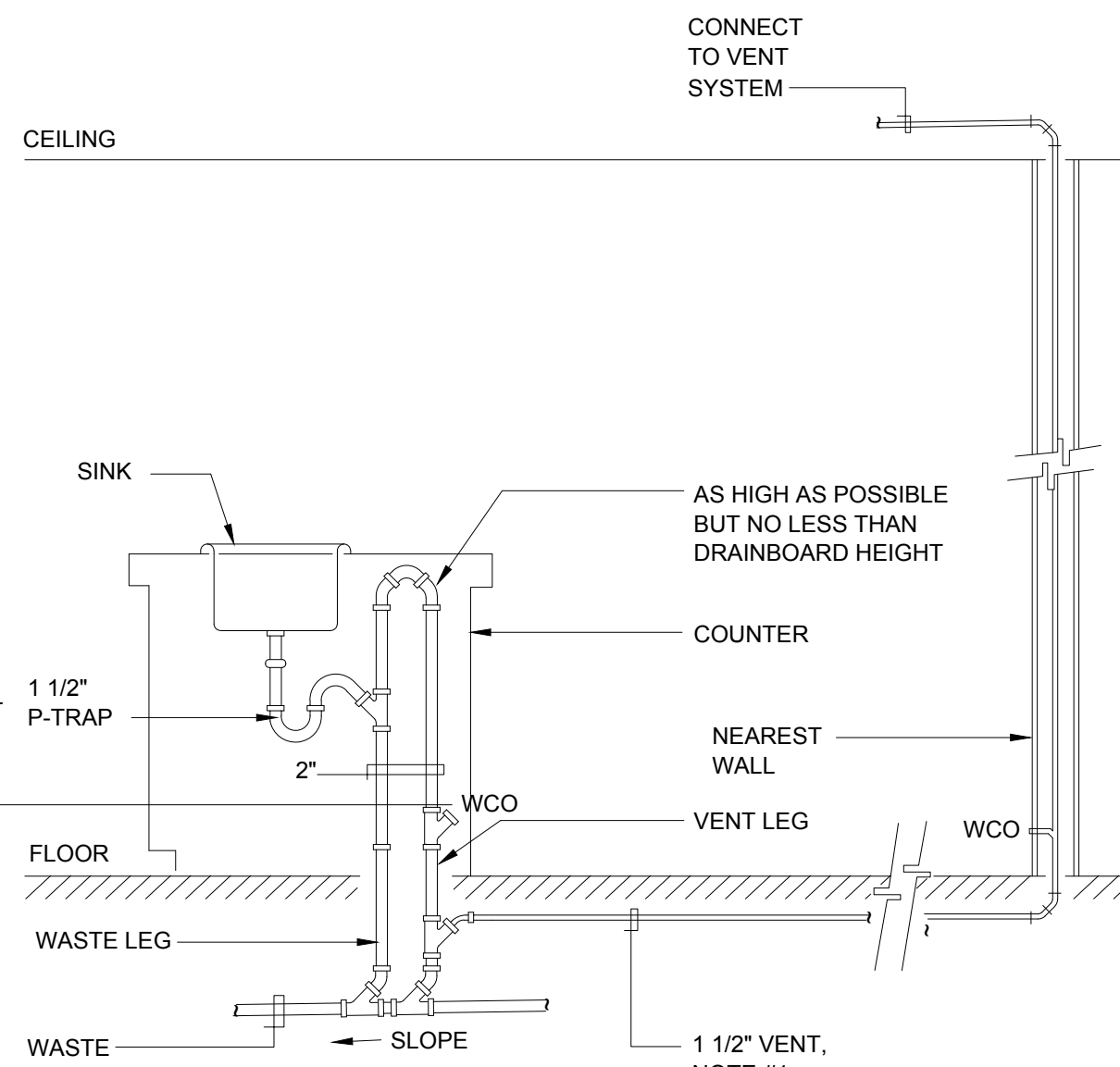


SINGLE PIPE HANGER



NOTES

- 1 INCREASE TO 2" IF LENGTH EXCEEDS 20-FEET HORIZONTAL OR 60-FEET TOTAL DEVELOPED LENGTH PRIOR TO TIE-IN.
- 2 FOR PIPE SIZES & CONTINUATION REFER TO DRAWINGS.
- 3 FOR UNDERGROUND INSTALLATION PIPE SHALL BE TREATED AS REQUIRED BY CODE.



- NOTES
- 1 5/8"Ø HANGER ROD, WELDED TO 2"x2"x16 GAUGE VERTICAL ANGLE. ATTACH TO STRUCTURE ABOVE PER STRUCTURAL DRAWINGS 8/50/12.
 - 2 PROVIDE A SECTION OF HIGH COMPRESSION STRENGTH INSULATION AT EACH HANGER POINT. INSULATION MAY BE HALF ROUND OR FULL ROUND & EXTENDED 2" BEYOND GALV. SHIELD EA. WAY.
 - 3 MULTIPLE PIPES SUPPORTED ONTO UNISTRUT P1000 CHANNEL AT 8'-0" O.C. MAX. PROVIDE INSULATED HOT WATER PIPING ON ROLLERS AND CHILLED WATER PIPING SECURED WITH PIPE CLAMPS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS FOR SUPPORTS AND FOR PIPING MATERIAL REQUIREMENTS.
 - 4 PROVIDE PIPE SADDLE BETWEEN PIPE AND HANGER.
 - 5 PROVIDE DIAGONAL BRACE FOR ALL PIPING. BRACE SHALL BE MINIMUM 3"x3"x 16 GAUGE DIAGONAL ANGLE. INSTALLED AT MAXIMUM 20'-0" IN EACH DIRECTION ON CENTER OR WITHIN 2'-0" OF ELBOWS. ATTACH TO STRUCTURE ABOVE PER 12/50/12.

GENERAL NOTES

1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

PIPE HANGERS

5

NO SCALE

PRESSURE REDUCING VALVE

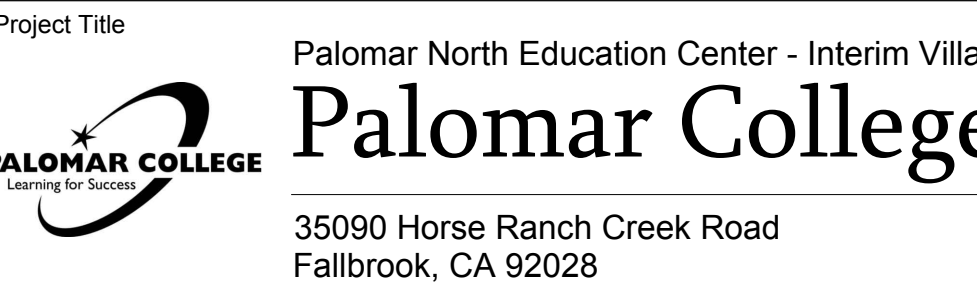
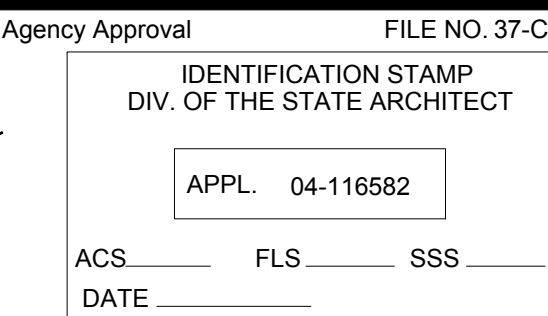
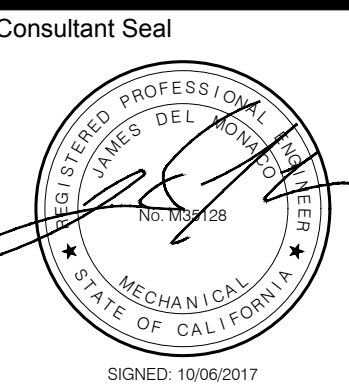
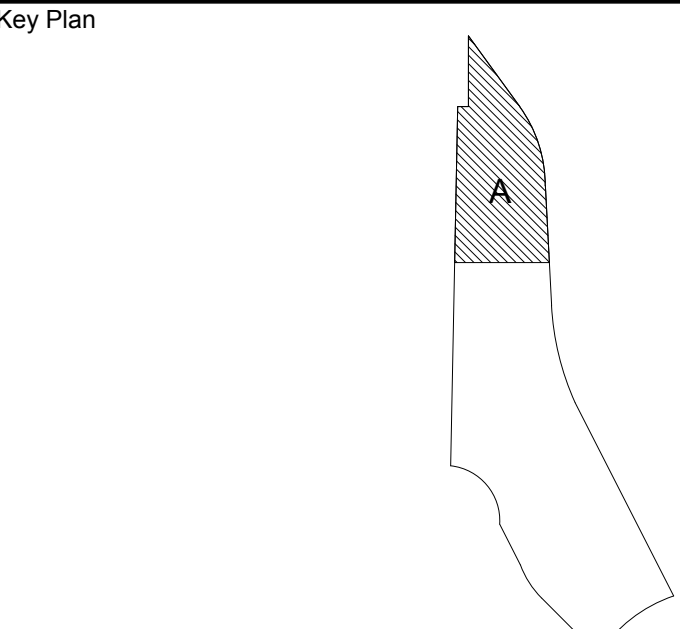
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ISLAND SINK WASTE & VENT DETAIL

1

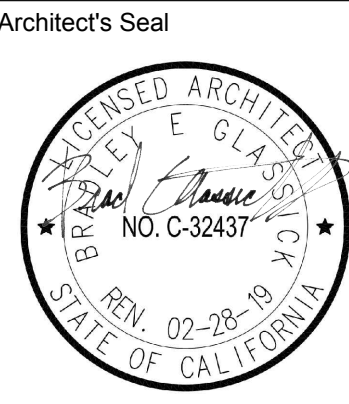
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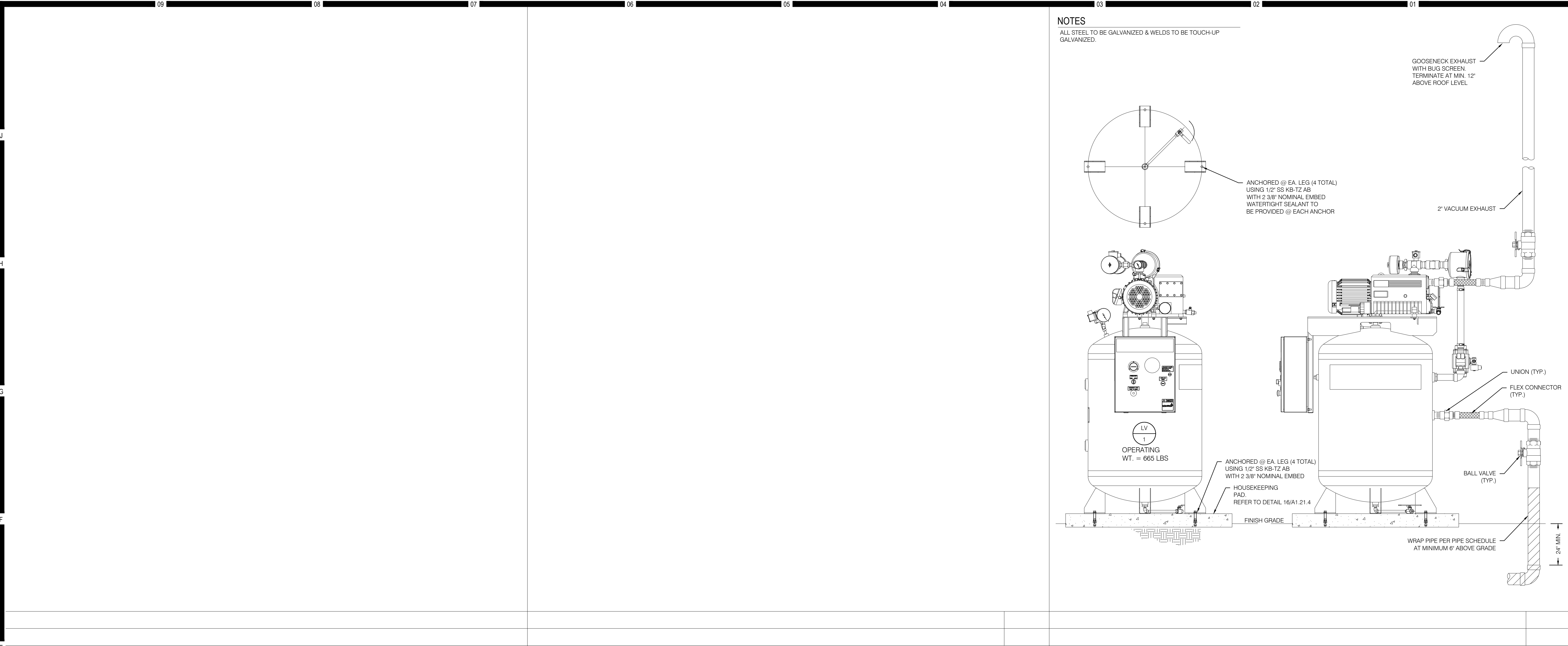
No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

Details



Designed: RC	Project No. 5015019-102
Drawn: MU	Scale: Not To Scale
QA/QC: JDM	Drawing No. P6.02
Date: 10/13/2017	



NOTES
ALL STEEL TO BE GALVANIZED & WELDS TO BE TOUCH-UP GALVANIZED.

GOOSENECK EXHAUST
WITH BLUS SCREEN
TERMINATE AT MIN. 12"
ABOVE ROOF LEVEL.

ANCHORED @ EA. LEG (4 TOTAL)
USING 1/2" SS KB-TZ AB
WITH 2 3/8" NOMINAL EMBED
WATERTIGHT SEALANT TO
BE PROVIDED @ EACH ANCHOR

2" VACUUM EXHAUST

ANCHORED @ EA. LEG (4 TOTAL)
USING 1/2" SS KB-TZ AB
WITH 2 3/8" NOMINAL EMBED
HOUSEKEEPING
PAD. REFER TO DETAIL 16/A1.21.4

UNION (TYP.)

FLEX CONNECTOR
(TYP.)

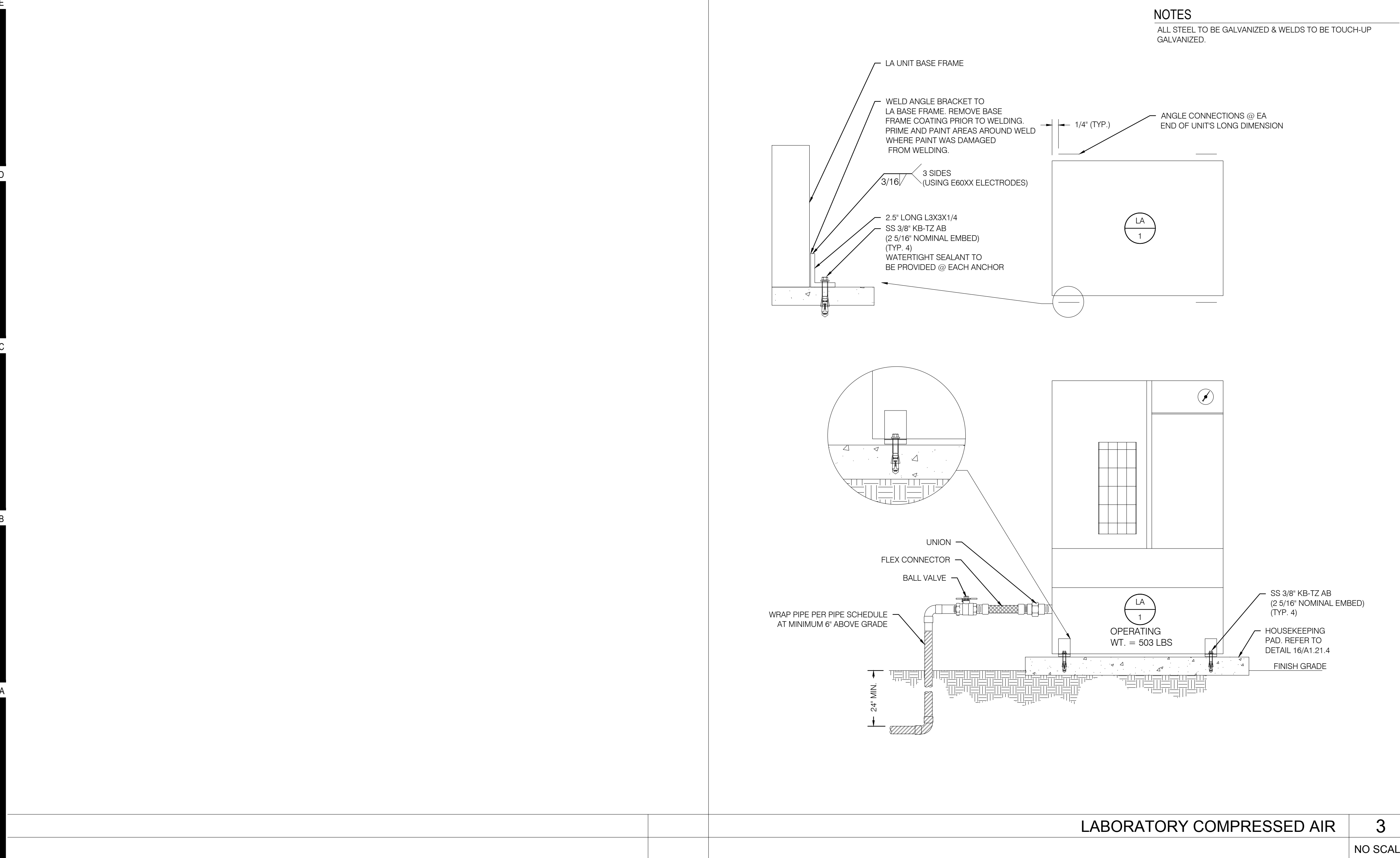
BALL VALVE
(TYP.)

WRAP PIPE PER PIPE SCHEDULE
AT MINIMUM 6" ABOVE GRADE

SM

HMC Architects

3546 Concourse Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com



NOTES
ALL STEEL TO BE GALVANIZED & WELDS TO BE TOUCH-UP GALVANIZED.

ANGLE CONNECTIONS @ EA.
END OF UNITS LONG DIMENSION

LA UNIT BASE FRAME

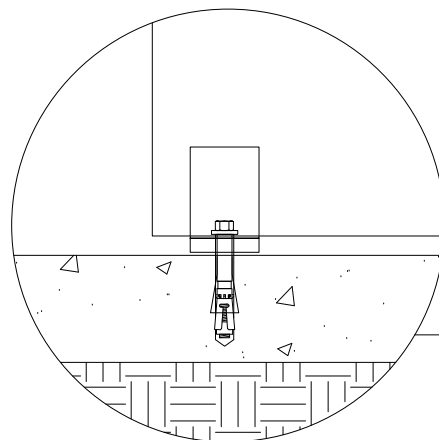
WELD ANGLE BRACKET TO
LA BASE FRAME. REMOVE BASE
FRAME COATING PRIOR TO WELDING.
PRIME AND PAINT AREAS AROUND WELD
WHERE PAINT WAS DAMAGED
FROM WELDING.

3 SIDES
(USING E60XX ELECTRODES)

2 5" LONG L3X3X1/4
SS 3/8" KB-TZ AB
(2 5/16" NOMINAL EMBED)
(TYP. 4)
WATERTIGHT SEALANT TO
BE PROVIDED @ EACH ANCHOR

1/4" (TYP.)

LA
1



UNION

FLEX CONNECTOR

BALL VALVE

WRAP PIPE PER PIPE SCHEDULE
AT MINIMUM 6" ABOVE GRADE

LA
1

OPERATING
WT. = 903 LBS

SS 3/8" KB-TZ AB
(2 5/16" NOMINAL EMBED)
(TYP. 4)

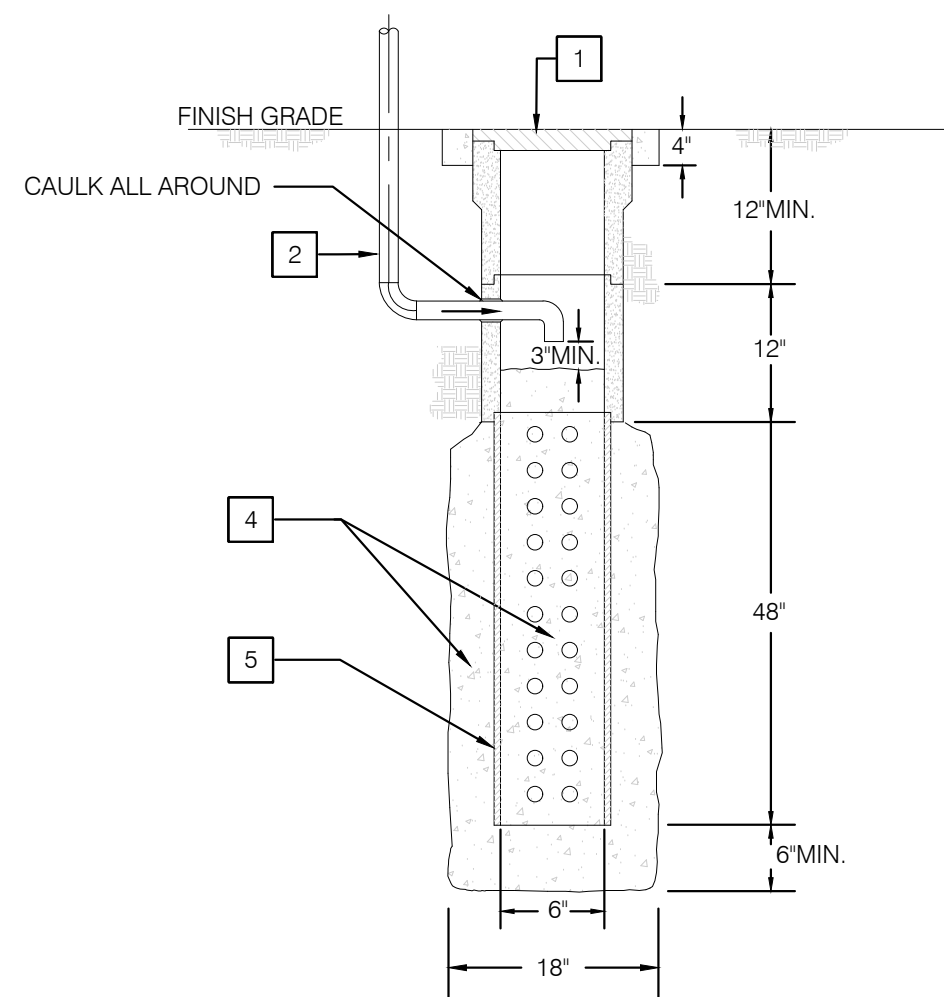
HOUSEKEEPING
PAD. REFER TO
DETAIL 16/A1.21.4

FINISH GRADE

24" MIN.

NOTES

- 8" DIA. TRAFFIC WEIGHT GALVANIZED COVER WITH BROOKS CONCRETE YARD BOX
- INDIRECT WASTE PIPE FROM MECHANICAL EQUIPMENT. PROVIDE 3" MINIMUM AIR GAP.
- PROVIDE 8"O SECTION OF PERFORATED PVC PIPE.
- PEA GRAVEL.



FINISH GRADE

CAULK ALL AROUND

2

12" MIN.

12"

45"

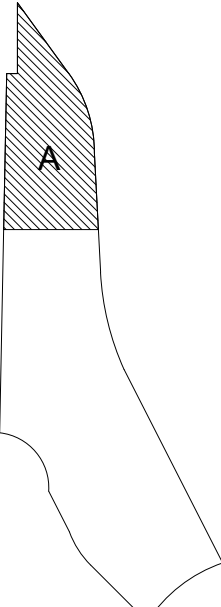
6" MIN.

18"

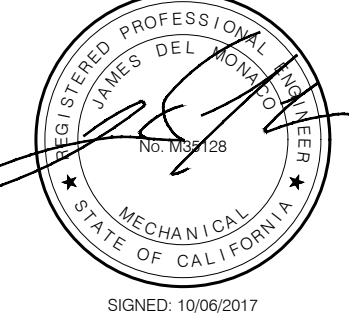
4

5

Key Plan



Consultant Seal



Agency Approval

FILE NO. 37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116582
ACS. FLS. SSS.
DATE

Project Title



Palomar North Education Center - Interim Village
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

Details

Architect's Seal



Designed:

RC

Project No.

5015019-102

Drawn:

MU

Scale:

Not To Scale

QAQC

JDM

Drawing No.

P6.03

Date:

10/13/2017

LABORATORY COMPRESSED AIR

3

NO SCALE

INSTANTANEOUS WATER HEATER

1

NO SCALE

PLEASE RECYCLE


DSA SUBMITTAL

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

CA Building Energy Efficiency Standards - 2015 Nonresidential Compliance April 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

[illegible]

	Designed:	JF	Project No.	5015019-102
	Drawn:	AO	Scale:	
	QA/QC	RG	Drawing No.	
	Date:	10/13/2017		E2.0.1

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016CYCLE DSA SUBMITTA

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 3 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

A. General Information
Project Address: 9250 HORSE RANCH CREEK ROAD, FALLBROOK, CA 92028
Phase of Construction: ☒ New Construction ☐ Alteration
Outdoor Lighting Zone (LZ): ☒ LZ-1 ☐ LZ-2 ☐ LZ-3 ☐ LZ-4
I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114.

B. Lighting Compliance Documents (check box for each document included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.
☒ NCC-LTO-03-E Certificate of Compliance
☒ NCC-LTO-03-E Outdoor Lighting Controls Certificate of Compliance
☒ NCC-LTO-03-E Outdoor Lighting Power Allowances Certificate of Compliance
☒ NCC-LTO-03-E Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power
Sum Total ALLOWED Outdoor Lighting Wattage from NCC-LTO-03-E, page 1: Watts: 1001.33
Alterations with NO increase of connected lighting load may instead use the allowed wattage from NCC-LTO-04, page 2.
Complies ONLY if installed (Box D2) & Allowed (Box D1)
Sum Total INSTALLED Outdoor Lighting Wattage from NCC-LTO-03-E, page 3: 94

D. Declaration of Required Installation Certificates
Declare by checking all of the Installation Certificates that will be submitted. (Obtain copies and verify compliance documents are completed and signed.)
☒ NCC-LTO-03-E Must be submitted for all building
☐ NCC-LTO-02-E Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

E. Declaration of Required Certificates of Acceptance
Declare by checking all of the Certificates of Acceptance that will be submitted. (Obtain copies and verify compliance documents are completed and signed.)
☒ NCC-LTO-02-A Must be submitted for outdoor lighting controls.

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7
G1 G2
Name or Symbol Description of exempt luminaire in accordance with the exemptions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 2 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.3(b)
G1 G2
Name or Symbol Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Controls Requirements in §130.3(c)
H1 H2
Name or Symbol Description of exempt luminaire in accordance with the exemptions

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist
Luminaire Schedule
G1 G2 G3 G4 G5 G6 Location Cutoff G7 G8 G9
Name or Item Tag Complete Luminaire Description Watts per Luminaire CCT Color Temp (Kelvin) How wattage was determined (See §140.7) Number of Luminaires Total Installed Watts (Watts x Qty) Primary Function area in which these luminaires are installed (Outdoor Lighting Zone) BUG Rating Max Feet

W 47W WALL PACKS 47 0 2 94
INSTALLED WATTS PAGE TOTAL: 94 Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NCC-LTO-03-E, Page 3

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 3 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist
Luminaire Schedule
G1 G2 G3 G4 G5 G6 Location Cutoff G7 G8 G9
Name or Item Tag Complete Luminaire Description Watts per Luminaire CCT Color Temp (Kelvin) How wattage was determined (See §140.7) Number of Luminaires Total Installed Watts (Watts x Qty) Primary Function area in which these luminaires are installed (Outdoor Lighting Zone) BUG Rating Max Feet

W 47W WALL PACKS 47 0 2 94
INSTALLED WATTS PAGE TOTAL: 94 Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NCC-LTO-03-E, Page 3

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 4 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that the Certificate of Compliance documentation is accurate and complete.
Documentation Author: Monica Hansen
Signature Date: 10/3/2017
Address: 12875 Brookrunner Place, Suite 300
City/State: Poway, CA 92064
Phone: 858-679-4030
RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 6 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer: Monica Hansen
Signature Date: 10/3/2017
Address: 12875 Brookrunner Place, Suite 300
City/State: Poway, CA 92064
Phone: 858-679-4030

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 1 of 3)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

A. Mandatory Outdoor Lighting Control Declaration Statements
Check all that apply:
☒ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
☒ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
☒ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.6(e).
☒ Part-Night Outdoor Lighting Controls, as defined in Section 130.1(b), shall meet the requirements in Section 130.9(b)(5).
☒ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.6(e), shall be controlled by a motion sensor.
☒ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.6(e), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b).
☒ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.3(c).
☒ All installed outdoor lighting shall be circled and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(d).
☒ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(d).
☒ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(d).
☒ For Building Facade, Ornamental Hardware and Outdoor Signage lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c).
☒ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §150.4.4. Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(d) and Reference Nonresidential Appendix NAE-8.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 2 of 3)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist
Outdoor Lighting Control Schedule
Standards Complying With (✓ all that apply, or leave empty if Exempt)
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11
Location and Application of Luminaires Being Controlled Type/Description of Lighting Control (i.e., outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control) # of Units §130.3(a) §130.3(b) §130.3(c) §130.3(d) §130.3(e) §130.3(f) Part-Night Lighting §130.9(b)(5) Field Inspection §130.6(e)

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 3 of 3)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that the Certificate of Compliance documentation is accurate and complete.
Documentation Author: Monica Hansen
Signature Date: 10/3/2017
Address: 12875 Brookrunner Place, Suite 300
City/State: Poway, CA 92064
Phone: 858-679-4030
RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 6 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer: Monica Hansen
Signature Date: 10/3/2017
Address: 12875 Brookrunner Place, Suite 300
City/State: Poway, CA 92064
Phone: 858-679-4030

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 1 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY
1. General Hardscape Lighting Power Allowance (Site Total from Section B of NCC-LTO-03-E): 178.63
2. Additional Specific "Use It or Lose It" Lighting Power Allowances (Total in each of these cells shall be identical to total allowed watts determined in Section C.1 to C.4 of NCC-LTO-03-E):
P15 APPLICATION from Section C-1 P16 UNIT LENGTH (SALES FRONTAGE) from Section C-2 P17 HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3 P18 SPECIFIC AREA from Section C-4
Sum Total ALLOWED Outdoor Lighting Wattage (Add rows 1 and 2): 178.63

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A
Area Wattage Allowance (EPAW)
G1 G2 G3 G4 G5 G6 G7 G8 G9
Name of Area Illuminated Hardscape Area Area per Square Foot Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100')
WALKWAY 699 0.04 27.96 143 0.15 50.05 100 178.63
Total General Hardscape Lighting Allowance: 178.63

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 2 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS
The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
Use Outdoor Lighting Zone (LZ) that is documented on page 1 of NCC-LTO-03-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION - Table 140.7-B
Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities, Drive Up Windows, Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting.
If more than one luminaire type is used per location, use multiple rows for that location.
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10
Name of Location for Which Allowance is Claimed Number of Qualifying Locations Allowance per Qualifying Location Allowed Watts (100 x 0.05) Luminaire Code or Symbol Luminaire Description Luminaire Quantity Watts per Luminaire Design Watts (100 x 0.05) Allowed Watts (smaller of G4 or G9)
Sum total allowance per application on this site: 0

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B
If more than one luminaire type is used per location, use multiple rows for that location.
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10
Name of Location for Which Allowance is Claimed Linear Feet of Sales Frontage Allowance per Linear Foot Allowed Watts (100 x 0.05) Luminaire Code or Symbol Luminaire Description Luminaire Quantity Watts per Luminaire Design Watts (100 x 0.05) Allowed Watts (smaller of G4 or G9)
Sum total allowance for sales frontage on this site: 0

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 3 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) - Table 140.7-B
Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.6(e), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
If more than one luminaire type is used per location, use multiple rows for that location.
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10
Name of area for which ornamental allowance is claimed Allocated Watts (100 x 0.05) Allowed Watts (100 x 0.05) Luminaire Code or Symbol Luminaire Description Luminaire Quantity Watts per Luminaire Design Watts (100 x 0.05) Allowed Watts (smaller of G4 or G9)
Sum total allowance for ornamental lighting on the site: 0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B
Allowances for Building Facades, Outdoor Sales Lots, Vehicle Service Station Hardscapes, Vehicle Service Station Canopies, Sales Canopies, Non-sales Canopies, Tunnels, Guard Stations, Student Pick-up/Drop-off Area, Outdoor Dining, Special Security Lighting for Retail Parking and Pedestrian Hardscapes.
If more than one luminaire type is used per location, use multiple rows for that location.
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10
Name of Location for Which Allowance is Claimed Illuminated Area of Application Allocated Watts (100 x 0.05) Allowed Watts (100 x 0.05) Luminaire Code or Symbol Luminaire Description Luminaire Quantity Watts per Luminaire Design Watts (100 x 0.05) Allowed Watts (smaller of G4 or G9)
Sum total allowance for specific area on the site: 0

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 4 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that the Certificate of Compliance documentation is accurate and complete.
Documentation Author: Monica Hansen
Signature Date: 10/3/2017
Address: 12875 Brookrunner Place, Suite 300
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Phone: 858-679-4030
RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 6 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer: Monica Hansen
Signature Date: 10/3/2017
Address: 12875 Brookrunner Place, Suite 300
City/State: Poway, CA 92064
Phone: 858-679-4030

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

HMC Architects
3546 Concourse Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

KEYNOTES

NOTES

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 1 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY
1. General Hardscape Lighting Power Allowance (Site Total from Section B of NCC-LTO-03-E): 178.63
2. Additional Specific "Use It or Lose It" Lighting Power Allowances (Total in each of these cells shall be identical to total allowed watts determined in Section C.1 to C.4 of NCC-LTO-03-E):
P15 APPLICATION from Section C-1 P16 UNIT LENGTH (SALES FRONTAGE) from Section C-2 P17 HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3 P18 SPECIFIC AREA from Section C-4
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Area Wattage Allowance (EPAW)
G1 G2 G3 G4 G5 G6 G7 G8 G9
Name of Area Illuminated Hardscape Area Area per Square Foot Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100') Area per Square Foot (100' x 100')
WALKWAY 699 0.04 27.96 143 0.15 50.05 100 178.63
Total General Hardscape Lighting Allowance: 178.63

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CERTIFICATE OF COMPLIANCE
NCC-LTO-03-E
(Page 2 of 4)
Project Name: PALOMAR COLLEGE - NORTH EDUCATION CENTER INTERIM VILLAGE
Date: 10/3/2017

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS
The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
Use Outdoor Lighting Zone (LZ) that is documented on page 1 of NCC-LTO-03-E to calculate the specific wattage allowances.
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10
Name of Location for Which Allowance is Claimed Number of Qualifying Locations Allowance per Qualifying Location Allowed Watts (100 x 0.05) Luminaire Code or Symbol Luminaire Description Luminaire Quantity Watts per Luminaire Design Watts (100 x 0.05) Allowed Watts (smaller of G4 or G9)
Sum total allowance per application on this site: 0
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10
Name of Location for Which Allowance is Claimed Linear Feet of Sales Frontage Allowance per Linear Foot Allowed Watts (100 x 0.05) Luminaire Code or Symbol Luminaire Description Luminaire Quantity Watts per Luminaire Design Watts (100 x 0.05) Allowed Watts (smaller of G4 or G9)
Sum total allowance for sales frontage on this site: 0

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

No. Description Date
DSA SUBMITTAL - PHASE IV 10/13/2017

Drawing Title: TITLE 24 OUTDOOR LIGHTING

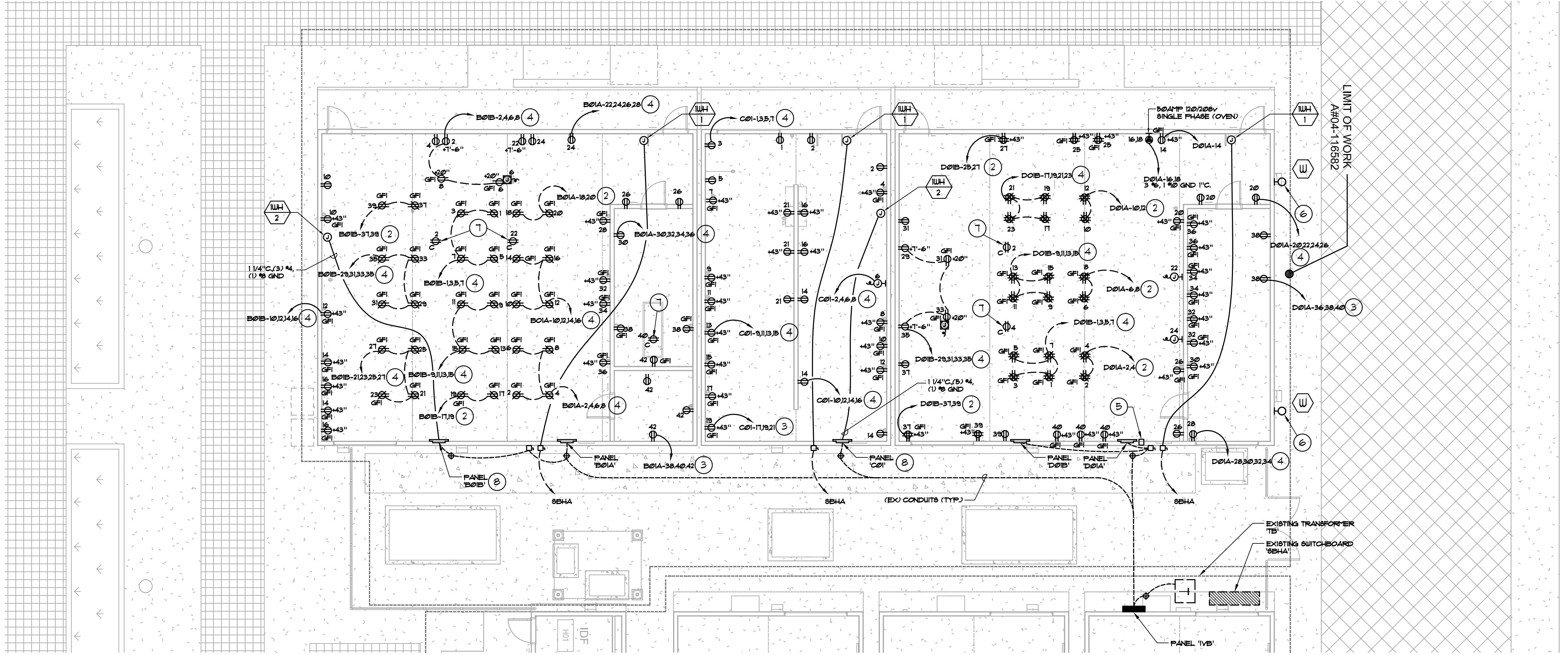
Architect's Seal: Palomar College
Designated: JF Project No. 5015019-102
Drawn: AO Scale:
QA/QC: RG Drawing No. E2.0.3
Date: 10/13/2017

KEYNOTES

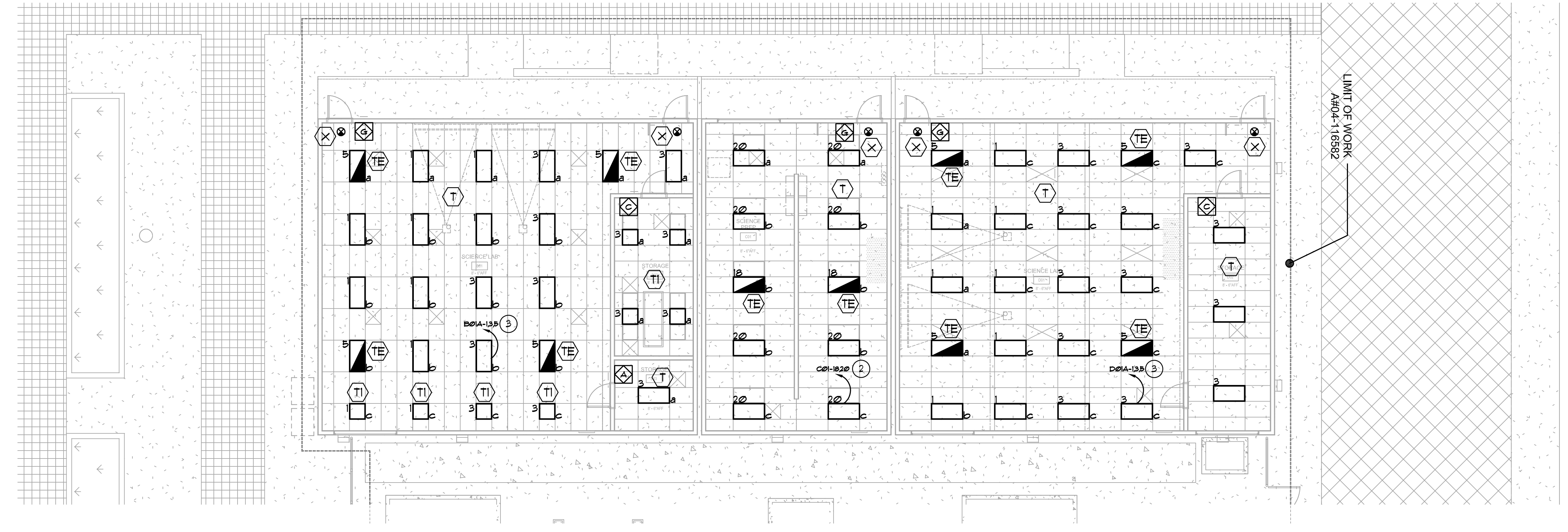
- KEY NOTES:**
- 1 FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
 - 2 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 1/2" C.
 - 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 1/2" C.
 - 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4" C.
 - 5 PROVIDE PROGRAMMABLE TIMECLOCK 'TORK' DGLC SERIES MOUNT ABOVE PANEL. PROVIDE 20A/1P BREAKER IN LOAD CENTER AND 2 #12, 1 #12 GND, TO EXTERIOR LIGHTS, CONNECTED VIA TIMECLOCK.
 - 6 MOUNT EXTERIOR LIGHT ON BUILDING EXTERIOR AS HIGH AS POSSIBLE. CONNECT VIA TIMECLOCK.
 - 7 CEILING MOUNTED RECEPTACLE.
 - 8 PROVIDE 60A/2P BREAKER FOR 11UH-2.

NOTES

- GENERAL NOTES:**
1. NUMBERS ADJACENT TO EACH POWER DEVICE INDICATES THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
 2. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
 3. PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (U.O.N.).
 4. FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO ROUGH-IN.
- ⊕ EXTEND SITE FEEDER CONDUITS TO THIS LOCATION TO SERVE PANEL LOCATIONS FROM EXISTING CONDUITS INSTALLED IN CONTRACT A04-116582.



POWER FLOOR PLAN



LIGHTING FLOOR PLAN

JOHNSON CONSULTING ENGINEERS, INC.
Power | Lighting | Multimedia
Communications | Data Networking
12875 Brookprinter Place, Suite 300
Poway, CA 92064
P 858.679.4030 | F 858.513.0559
www.jce-inc.com

Professional Engineer Seal: No. E 14781, Exp. 8-30-2019, Electrical, State of California

#1255104 10/5/2017

Key Plan

Consultant Seal

Agency Approval

FILE NO. 37-C1

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACR. FLS. SSS.

DATE

Project Title

Palomar North Education Center

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

FLOOR PLAN - ELECTRICAL / LIGHTING

Architect's Seal

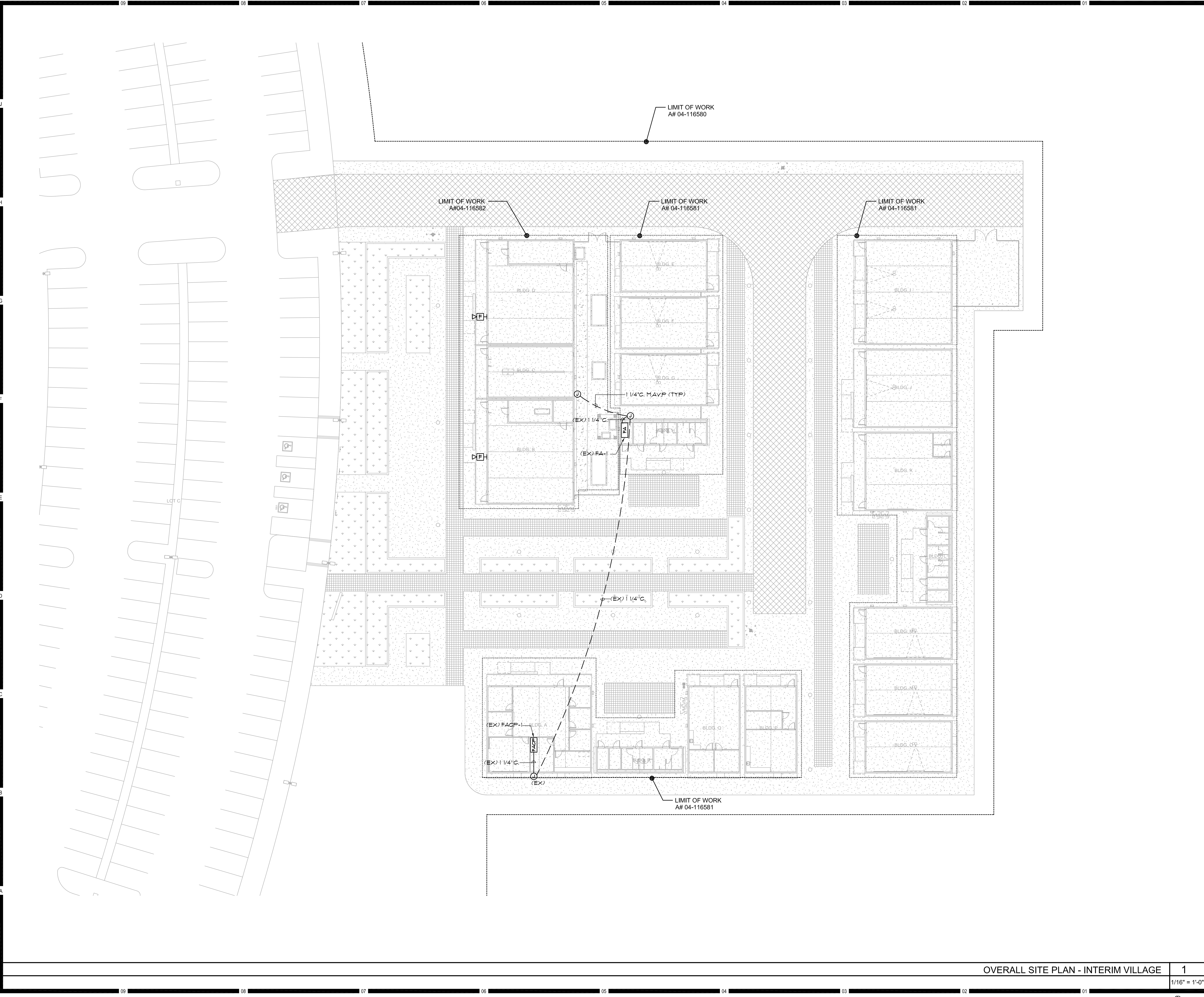
Designed: JF Project No. 5015019-102

Drawn: AO Scale:

QAQC: RG Drawing No.

Date: 10/13/2017

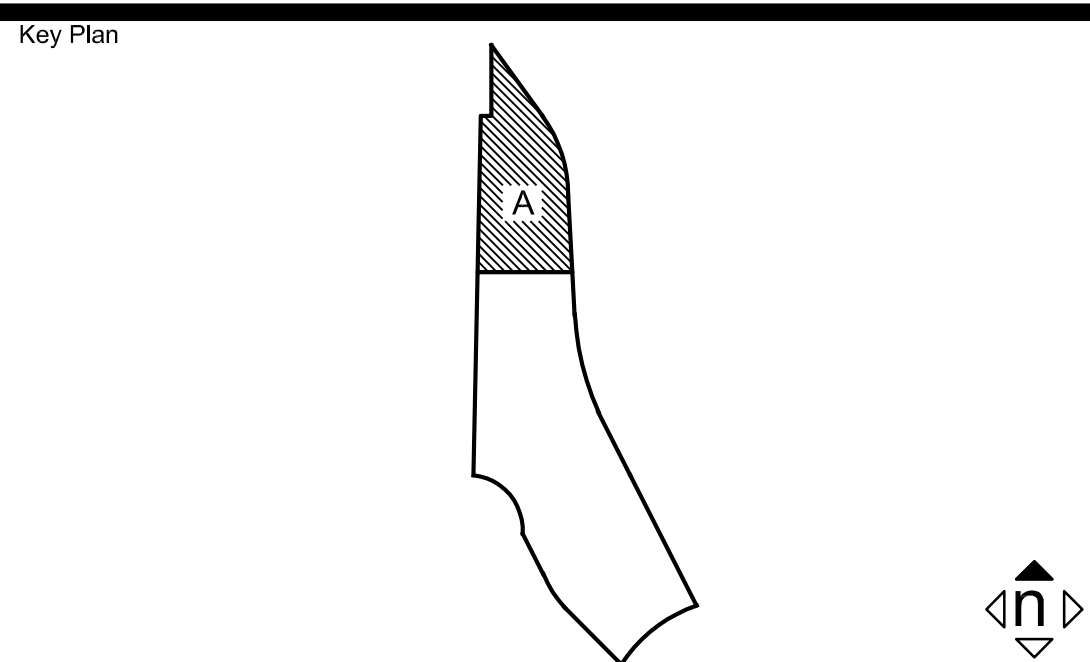
E3.1



KEYNOTES	
	MAIN FIRE ALARM CONTROL PANEL
	REMOTE FIRE ALARM POWER EXTENDER
	WALL MOUNTED WEATHERPROOF EXTERIOR HORN MOUNTED

NOTES

JOHNSON
CONSULTING ENGINEERS, INC.
Power | Lighting | Multimedia
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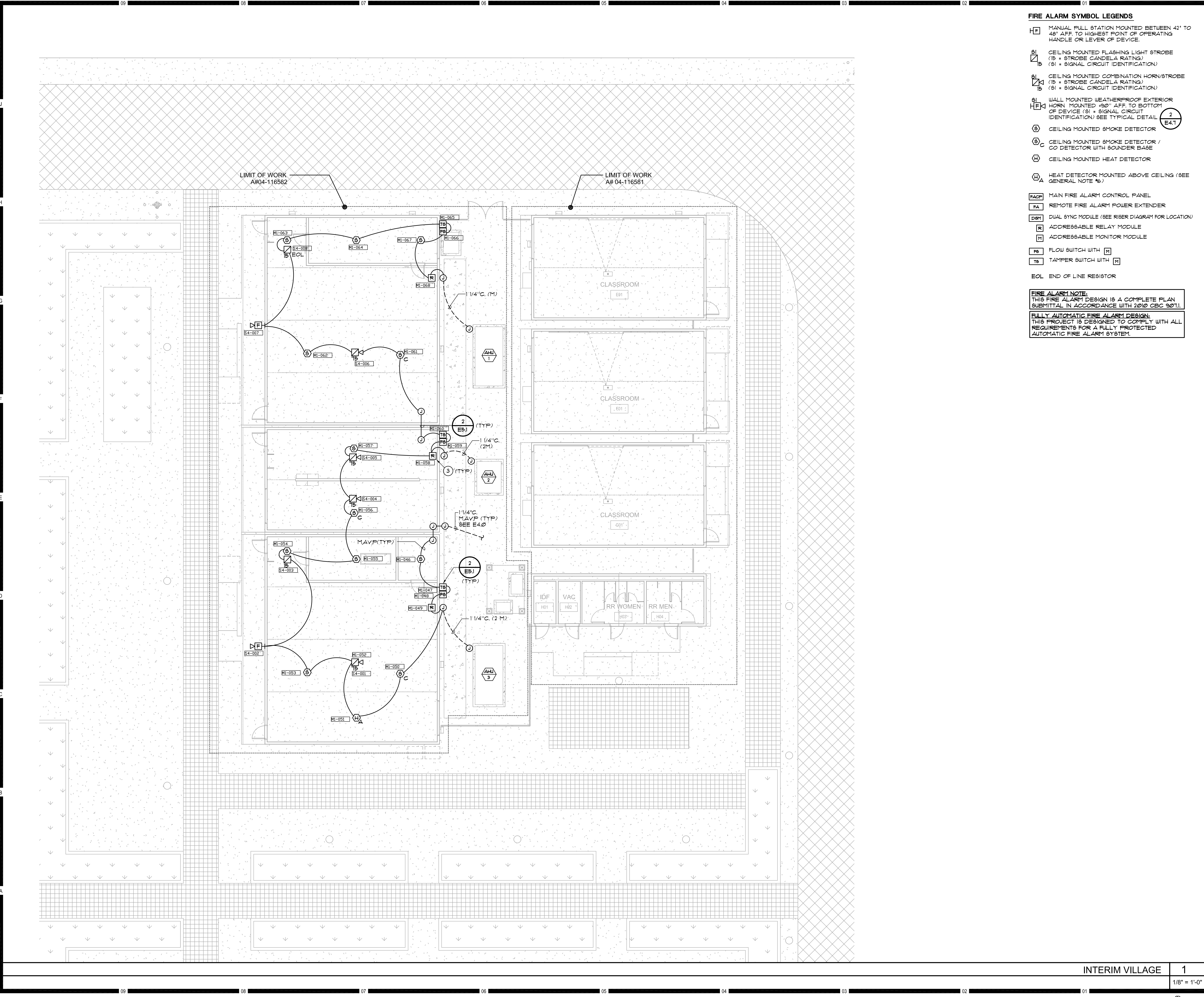
Consultant Seal	Agency Approval FILE NO. 37-C1 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACR _____ FLS _____ SSS _____ DATE _____
-----------------	--

Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
**INTERIM VILLAGE - SITE PLAN
FIRE ALARM**

<p>Architect's Seal</p>	Designed: JF	Project No. 5015019-102
	Drawn: AO	Scale:
	QA/QC: RG	Drawing No. E4.0
	Date: 10/13/2017	



- FIRE ALARM SYMBOL LEGENDS**
- MANUAL PULL STATION MOUNTED BETWEEN 42" TO 48" AFF. TO HIGHEST POINT OF OPERATING HANDLE OR LEVER OF DEVICE.
 - CEILING MOUNTED FLASHING LIGHT STROBE (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
 - CEILING MOUNTED COMBINATION HORN/STROBE (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
 - WALL MOUNTED WEATHERPROOF EXTERIOR HORN MOUNTED 48" AFF. TO BOTTOM OF DEVICE (SI = SIGNAL CIRCUIT IDENTIFICATION) SEE TYPICAL DETAIL
 - CEILING MOUNTED SMOKE DETECTOR
 - CEILING MOUNTED SMOKE DETECTOR / CO DETECTOR WITH SOUNDER BASE
 - CEILING MOUNTED HEAT DETECTOR
 - HEAT DETECTOR MOUNTED ABOVE CEILING (SEE GENERAL NOTE 16)
 - MAIN FIRE ALARM CONTROL PANEL
 - REMOTE FIRE ALARM POWER EXTENDER
 - DUAL SYNC MODULE (SEE RISER DIAGRAM FOR LOCATION)
 - ADDRESSABLE RELAY MODULE
 - ADDRESSABLE MONITOR MODULE
 - FLOW SWITCH WITH
 - TAMPER SWITCH WITH
 - EOL END OF LINE RESISTOR

FIRE ALARM NOTE:
THIS FIRE ALARM DESIGN IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH 2010 CBC 907.1.

FULLY AUTOMATIC FIRE ALARM DESIGN:
THIS PROJECT IS DESIGNED TO COMPLY WITH ALL REQUIREMENTS FOR A FULLY PROTECTED AUTOMATIC FIRE ALARM SYSTEM.

KEYNOTES

- KEY NOTES:**
1. PROVIDE DEDICATED 120 VOLT, 1P, 20 AMP BREAKER TO EXISTING RELO PANEL CONNECT TO 'LOCK ON BREAKER'.
 2. PROVIDE CONNECTION TO 'FACP-1'.
 3. PROVIDE CONNECTION TO HVAC UNIT CONTROL CIRCUIT FOR AUTOMATIC SHUT OFF OF UNIT UPON DETECTION OF SMOKE BY ANY AREA SMOKE DETECTOR.

NOTES

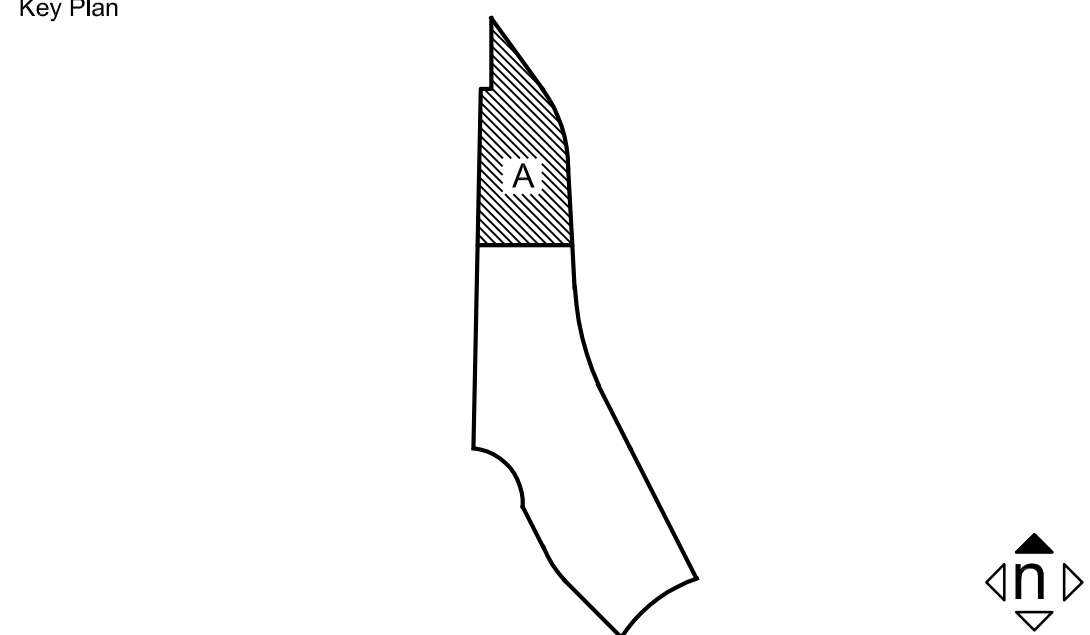
- GENERAL NOTES:**
1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
 2. REFERENCE E5 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
 3. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND INITIATION ZONE CIRCUIT IDENTIFICATIONS.
 4. REFERENCE MECHANICAL PLANS FOR EXACT LOCATION OF ALL DUCT DETECTORS AND SMOKE DAMPER LOCATIONS.
 5. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 3/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TO BE PROVIDED PER MANUFACTURER'S SHOP DRAWINGS.
 6. CONTRACTOR SHALL PROVIDE CEILING ACCESS PANEL AT ALL NON-LAYIN TYPE CEILINGS WHERE HEAT DETECTOR ABOVE CEILING IS INDICATED.

JOHNSON
CONSULTING ENGINEERS, INC.

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#125104 10/3/2017



Consultant Seal	Agency Approval	FILE NO. 37-C1
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	APPL. 04-116582	
	ACR	FLS
	DATE	

Palomar College
Learning for Success

Palomar North Education Center

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

FLOOR PLAN - FIRE ALARM

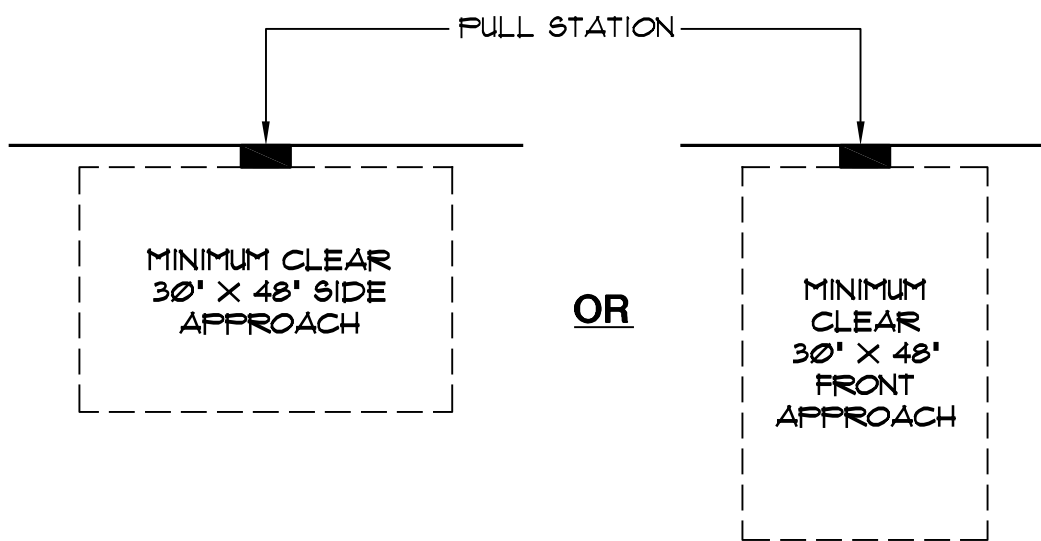
	Designed: JF	Project No. 5015019-102
	Drawn: AO	Scale:
	QA/QC: RG	Drawing No. E4.1
	Date: 10/13/2017	

NOTIFIER MODEL NFS 320					
	SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
001		NSF-320	MAIN FIRE ALARM CONTROL PANEL	7165-00280243	NOTIFIER
002		FSPS-24S6	REMOTE POWER SUPPLY	7315-00280225	NOTIFIER
003		DSM	SYNC MODULE	7300-07850132	COOPER WHEELCO
			BATTERIES		
006		FSP-851	INTELLIGENT SMOKE DETECTOR	7272-00280206	NOTIFIER
		B210LB	SENSOR BASE	7300-16530109	SYSTEM SENSOR
007		FCD-851	COMBINATION SMOKE/CO DETECTOR	7275-00280284	NOTIFIER
		B200S	SOUNDER BASE	7135-16530213	SYSTEM SENSOR
009		FST-851	INTELLIGENT HEAT DETECTOR	7270-00280196	NOTIFIER
		B210LB	SENSOR BASE	7300-16530109	SYSTEM SENSOR
010		FST-851H	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-00280196	NOT
		B210LB	SENSOR BASE	7300-16530109	SYSTEM SENSOR
013		WFDN	WATERFLOW SWITCH	7770-16530231	SYSTEM SENSOR
014		PIRV2	TAMPER SWITCH	7770-16530118	SYSTEM SENSOR
015		AH	EXTERIOR HORN	7125-07850131	COOPER WHEELCO
			EXTERIOR FLUSH PLATE (PART OF ABOVE)		
018		LHSC	HORN/STROBE (15/30/75) cd (CEIL MNT)	7135-07850181	COOPER WHEELCO
020		LSTC	STROBE (15/30/75/110) cd (CEIL MNT)	7125-07850180	COOPER WHEELCO
025		FCM-1	ADDRESSABLE MONITOR MODULE	7300-00280219	NOTIFIER
026		FCM-1	ADDRESSABLE RELAY MODULE	7300-00280219	NOTIFIER
027		RIC-1	120 VOLT RELAY MODULE	7300-10040101	SAE INC
028		TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS (M)	7161-20670100	WEST PENN
029		TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

** IF OTHER MANUFACTURER IS USED IT IS TO BE UL AND CSFM LISTED.

WIRING SCHEDULE			
DES	CONDUCTOR TYPE	WIRE COLOR	CIRCUIT TYPE
P	(2) #12 THHN	RED/BLACK	POWER
M	(1) 1 PR #14 TWISTED SHIELDED	RED/BLACK/SHIELD	SIGNAL LINE CIRCUIT
AV	(2) #12 THHN	BLUE/WHITE	NOTIFICATION APP. CIRCUIT (NAC)

CLEAR SPACE REQUIREMENTS AT FIRE ALARM PULL STATIONS.



ANNUNCIATOR ZONE SCHEDULE						
	ROOM SMOKE OR HEAT DETECTORS	ABOVE CEILING HEAT DETECTORS	MANUAL PULL STATIONS	DUCT DETECTORS	SPRINKLER SYSTEM	TROUBLE INDICATION
BLDG	YES	YES	NO	N/A	N/A	YES
NOTES: 1. ALL SMOKE DETECTORS, HEAT DETECTORS ABOVE CEILING DETECTORS, DUCT DETECTORS MANUAL PULL STATIONS, FLOW SWITCHES, TAMPER SWITCHES SHALL BE INDIVIDUALLY ADDRESSABLE. 2. PROVIDE (1) ANNUNCIATOR WHICH WILL PROVIDE LED LIGHT INDICATORS TO IDENTIFY THE ABOVE ZONE SCHEDULE (IN ADDITION TO ANNUNCIATOR NOTED IN NOTE # 3). 3. PROVIDE (1) 32 CHARACTER BACK-LIGHTED ALPHA-NUMERIC DISPLAY ANNUNCIATOR WITH KEYPAD FOR OPERATOR CONTROL, PROGRAMMING AND TESTING.						

FIRE ALARM MONITORING NOTE:

- AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC SECTION 907. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFX OR ULSS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM GENERAL REQUIREMENTS:

- THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (28 30 00) FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
- UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 3/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TYPES AND QUANTITIES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL WIRING AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. SHOP DRAWINGS AND OR AS-BUILT DOCUMENTS SHALL INDICATE ALL WIRING PROVIDED.
- THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL 15 db's OVER THE AMBIENT NOISE LEVEL. ADD ADDITIONAL DEVICES AS REQUIRED.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A REACCEPTANCE TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY AND IN ACCORDANCE WITH SPECIFICATIONS (28 30 00). THE CONTRACTOR SHALL FURNISH 60 METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
- ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH UL ASSEMBLY UL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL ON THE DETAIL SHEET.
- ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.

APPLICABLE CODES

2016 BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 C.C.R.)

2016 CALIFORNIA BUILDING CODE (PART 2, TITLE 24 C.C.R.)
(2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24 C.C.R.)
(2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, C.C.R.)
(2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, C.C.R.)
(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, C.C.R.)

2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, C.C.R.)
(2013 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN),
PART 11, TITLE 24 C.C.R.

2016 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24, C.C.R.)

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2013 EDITION
NFPA 14 STANDPIPE SYSTEMS (CA AMENDED) 2013 EDITION
NFPA 17A WEST CHEMICAL SYSTEMS 2013 EDITION
NFPA 20 STATIONARY PUMPS 2013 EDITION
NFPA 24 PRIVATE FIRE MAINS (CA AMENDED) 2013 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE (CA AMENDED) 2013 EDITION
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES 2013 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2013 EDITION
REFERENCE CODE SECTION FOR NFPA STANDARDS - 2013 CBC (SFC) CHAPTER 35.
SEE CHAPTER FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING MINIMUM CONDUIT SIZE FOR THIS PROJECT IS 3/4"											
CONDUIT TRADE SIZE (INCHES)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5
TYPE LETTERS	CONDUCTOR SIZE AWG, kcmil										
THWN	14 12	13 10	24 18	39 25	89 51	94 70	154 114	164			
THHN	10 8	8 5	11 5	18 9	32 16	44 22	73 36	104 51	180 79	106	136
AREA—SQUARE INCHES											
TRADE SIZE	INTERNAL DIAMETER INCHES	PERCENT REDUCTION PER NUMBER OF 18 AWG TWISTED SHIELD PAIRS									
		100% INCHES	OVER 2 COND. 40%	1	2	3	4	5	6	7	8
1/2	.622	.30	.12	38%	66%	99%	X	X	X	X	X
3/4	.824	.53	.21	19%	38%	57%	76%	93%	X	X	X
1	1.049	.86	.34	12%	24%	36%	48%	60%	72%	84%	96%
1 1/4	1.380	1.50	.60	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	1.610	2.04	.82	5%	10%	15%	20%	25%	30%	35%	40%
2	2.067	3.36	1.34	3%	6%	9%	12%	15%	18%	21%	24%

FIRE ALARM SEQUENCE OF OPERATION						
ACTION	DEVICE	MANUAL PULL STATION	AREA/DUCT SMOKE/HEAT DETECTOR	AC POWER FAILURE	SPRINKLER ACTIVATION TAMPER SW.	SPRINKLER ACTIVATION FLOW SW.
SOUND ALARM THROUGHOUT BLDG.	YES	YES	NO	N/A	YES	
ACTIVATE RELAY FOR MONITORING	YES	YES	YES	N/A	YES	
ANNUNCIATE AT PANEL AND ANNUNCIATOR	YES	YES	YES	N/A	YES	
SOUND TROUBLE BUZZER	ON WIRING FAULT	ON WIRING FAULT	YES	N/A	ON WIRING FAULT	
SOUND SPRINKLER BELL	NO	NO	NO	N/A	YES	
REPORT TO MONITORING STATION	YES	YES	YES	YES	YES	
INITIATE SHUTDOWN OF HVAC UNITS	YES	YES	NO	N/A	YES	

KEYNOTES

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Key Plan

Consultant Seal

Agency Approval

FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACR. FLS. SSS.

DATE

Project Title

Palomar North Education Center

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:

FIRE ALARM SCHEDULE

Architect's Seal

Designed: JF

Project No. 5015019-102

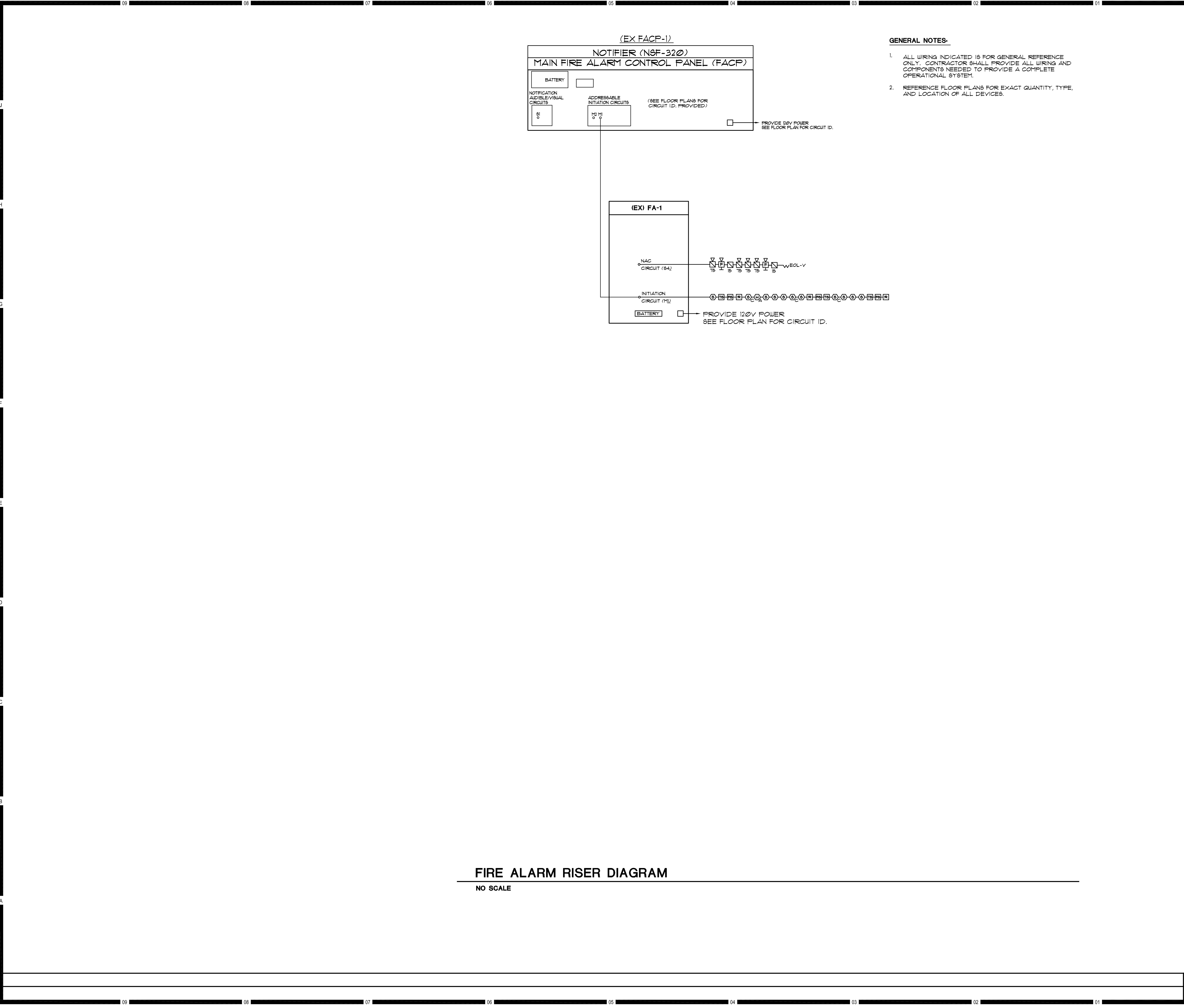
Drawn: AO

Scale:

QA/QC: RG

Drawing No. **E4.4**

Date: 10/13/2017



FIRE ALARM RISER DIAGRAM
NO SCALE

- GENERAL NOTES:
- 1. ALL WIRING INDICATED IS FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE ALL WIRING AND COMPONENTS NEEDED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
 - 2. REFERENCE FLOOR PLANS FOR EXACT QUANTITY, TYPE, AND LOCATION OF ALL DEVICES.

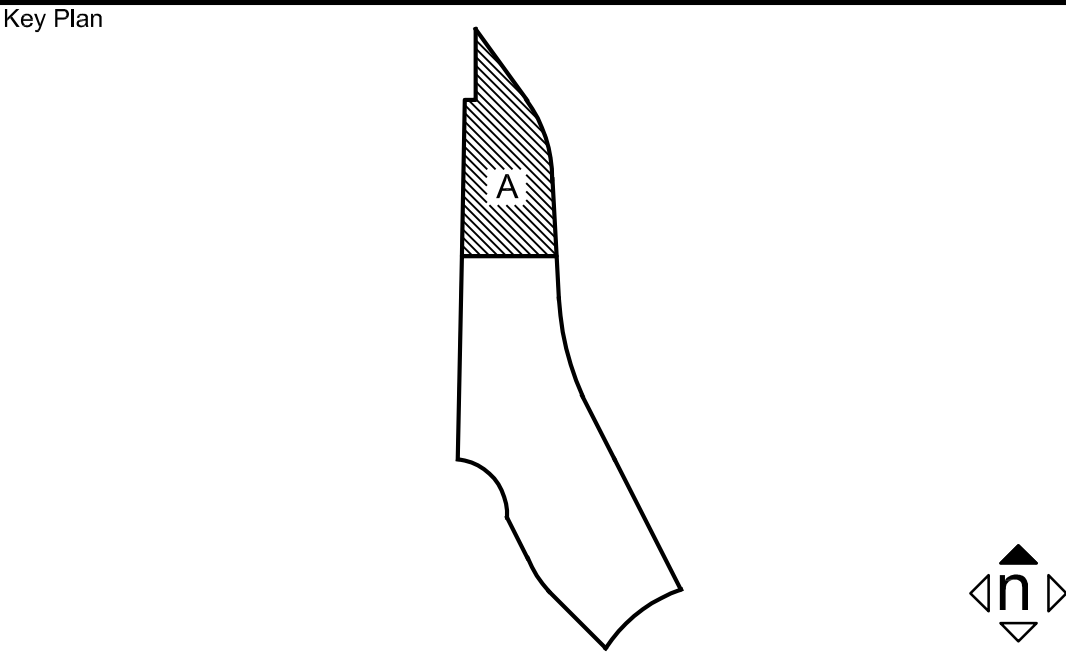
KEYNOTES

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APPL. 04-116582

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DATE

Project Title
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
FIRE ALARM RISER DIAGRAM

Architect's Seal


Architect's Seal

Designed: JF
Drawn: AO
QA/QC: RG
Date: 10/13/2017

Project No. 5015019-102
Scale:
Drawing No.
E4.5

Fire Alarm Voltage Drop Calculations									
Calculation Formula					Circular Mils Using #10 wire = 10380 Circular Mils Using #12 wire = 6530 Circular Mils Using #14 wire = 4110 Circular Mils Using #16 wire = 1620				
Total Current x Feet x 21.6 (Voltage Drop)									
Circular Mils									
Voltage Drop / 24 Volts x 100 Percent = Percentage Voltage Drop									
FA-1									
Circuit ID	Device Type	Devices x Current	Total Current	Distance In Feet	Circular Mils	=	Total Voltage Dropped Volts Dropped	=	% Volts Dropped
S 4	Extender Horn	2	0.050 0.000						
	Sync Module	1	0.035 0.035						
	150cd Horn / Strobo	0	0.062 0.000						
	300cd Horn / Strobo	0	0.102 0.000						
	750cd Horn / Strobo	0	0.148 0.000						
	1100cd Horn / Strobo	0	0.197 0.000						
	150cd Horn / ST (Ceiling)	0	0.082 0.000						
	300cd Horn / ST (Ceiling)	0	0.102 0.000						
	750cd Horn / ST (Ceiling)	4	0.148 0.592						
	950cd Horn / ST (Ceiling)	0	0.176 0.000						
	110cd Strobo	0	0.057 0.000						
	300cd Strobo	0	0.085 0.000						
	725cd Strobo	0	0.135 0.000						
	1100cd Strobo	0	0.182 0.000						
150cd Strobo (Ceiling)	2	0.061 0.122							
300cd Strobo (Ceiling)	0	0.085 0.000							
750cd Strobo (Ceiling)	0	0.135 0.000							
950cd Strobo (Ceiling)	0	0.163 0.000							
		Total	0.848	280	6530	=	0.786	=	3.28%


Key Plan



The key plan shows the outline of the state of Georgia. A small rectangular area in the northern part of the state is shaded with diagonal lines and labeled with the letter 'A', indicating the location of the project area.

Project Title

Palomar North Education Center


 **PALOMAR COLLEGE**
Learning for Success

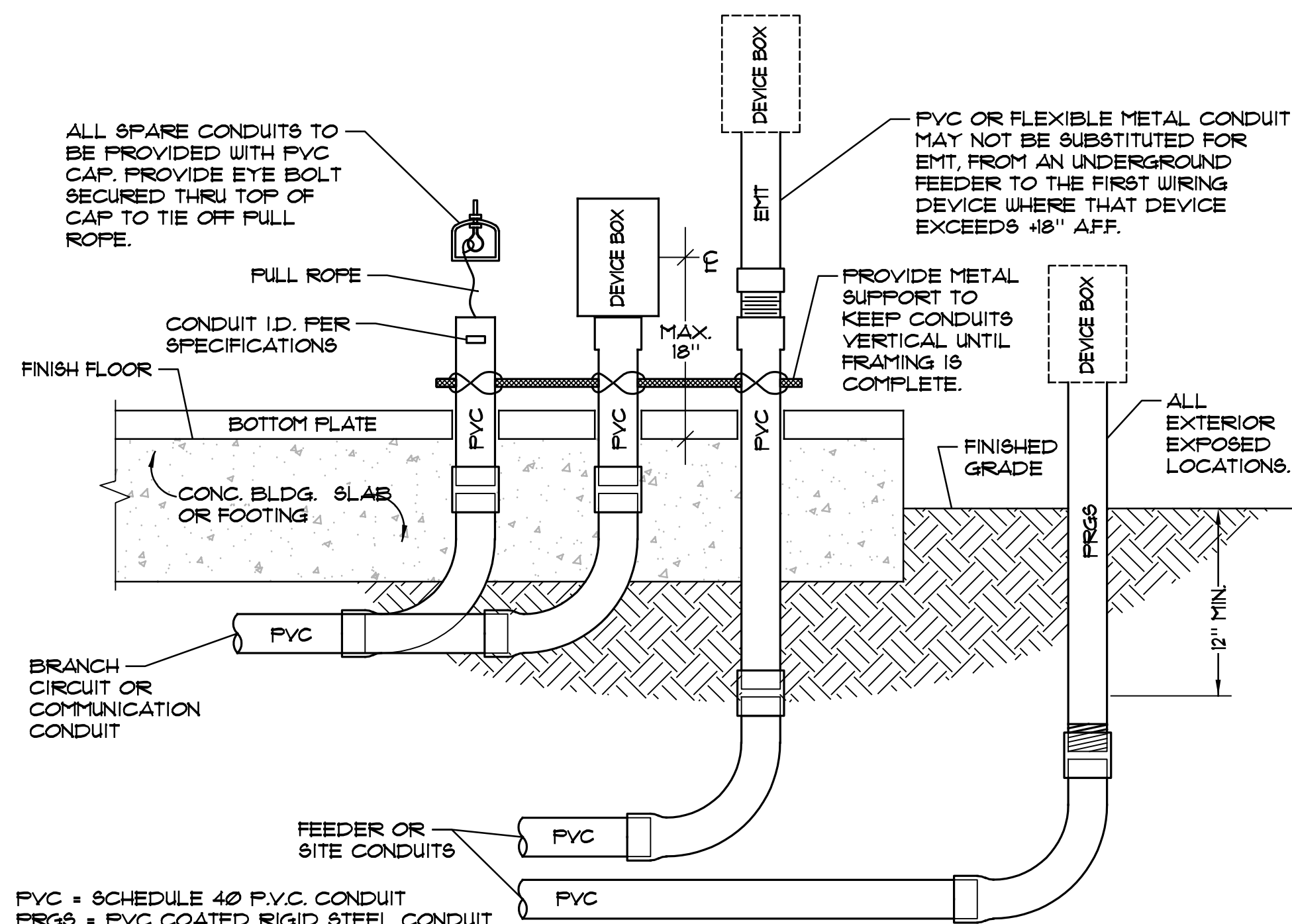
Palomar North Education Center

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

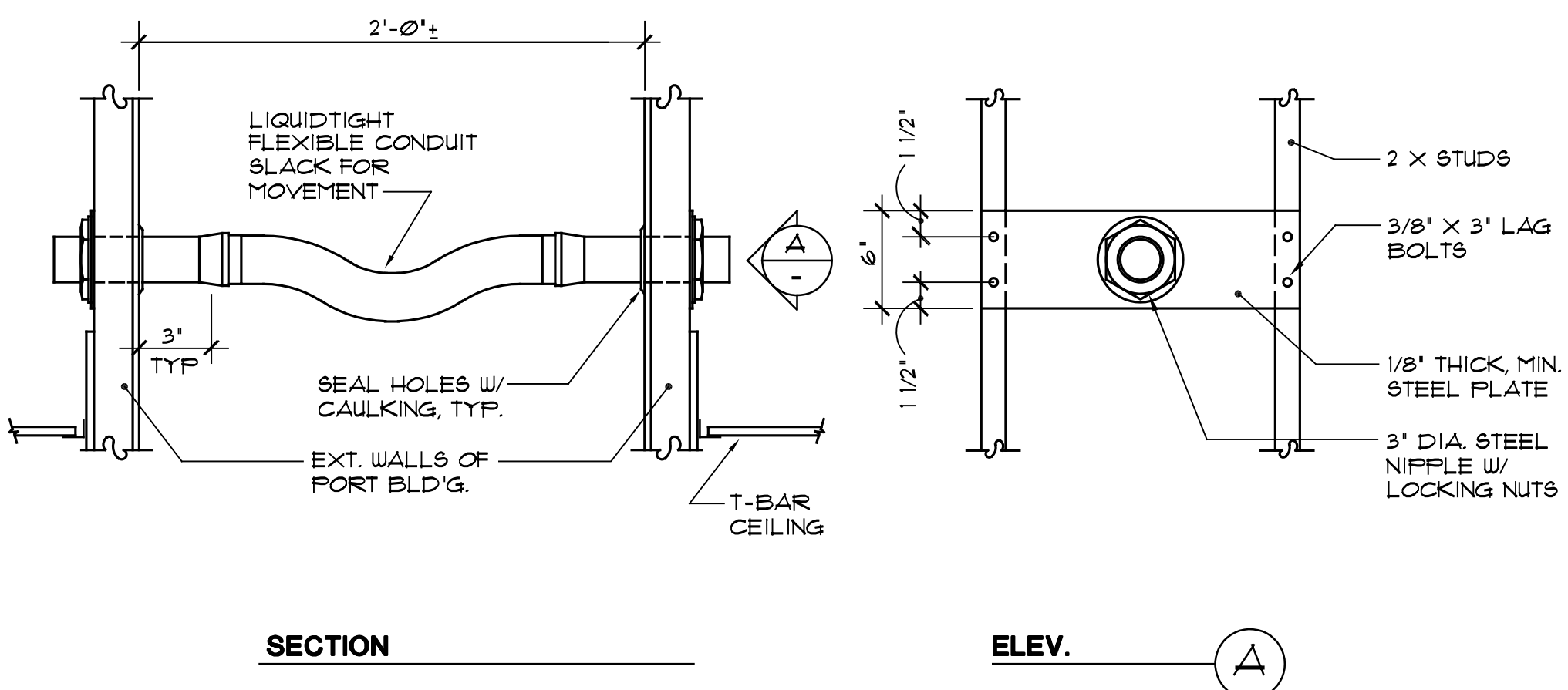
Drawing Title:
FIRE ALARM CALCULATIONS

Architect's Seal 	Designed: JF Drawn: AO QAQC: RG Date: 10/13/2017	Project No. 5015019-102 Scale: Drawing No. <div style="font-size: 2em; font-weight: bold;">E4.6</div>
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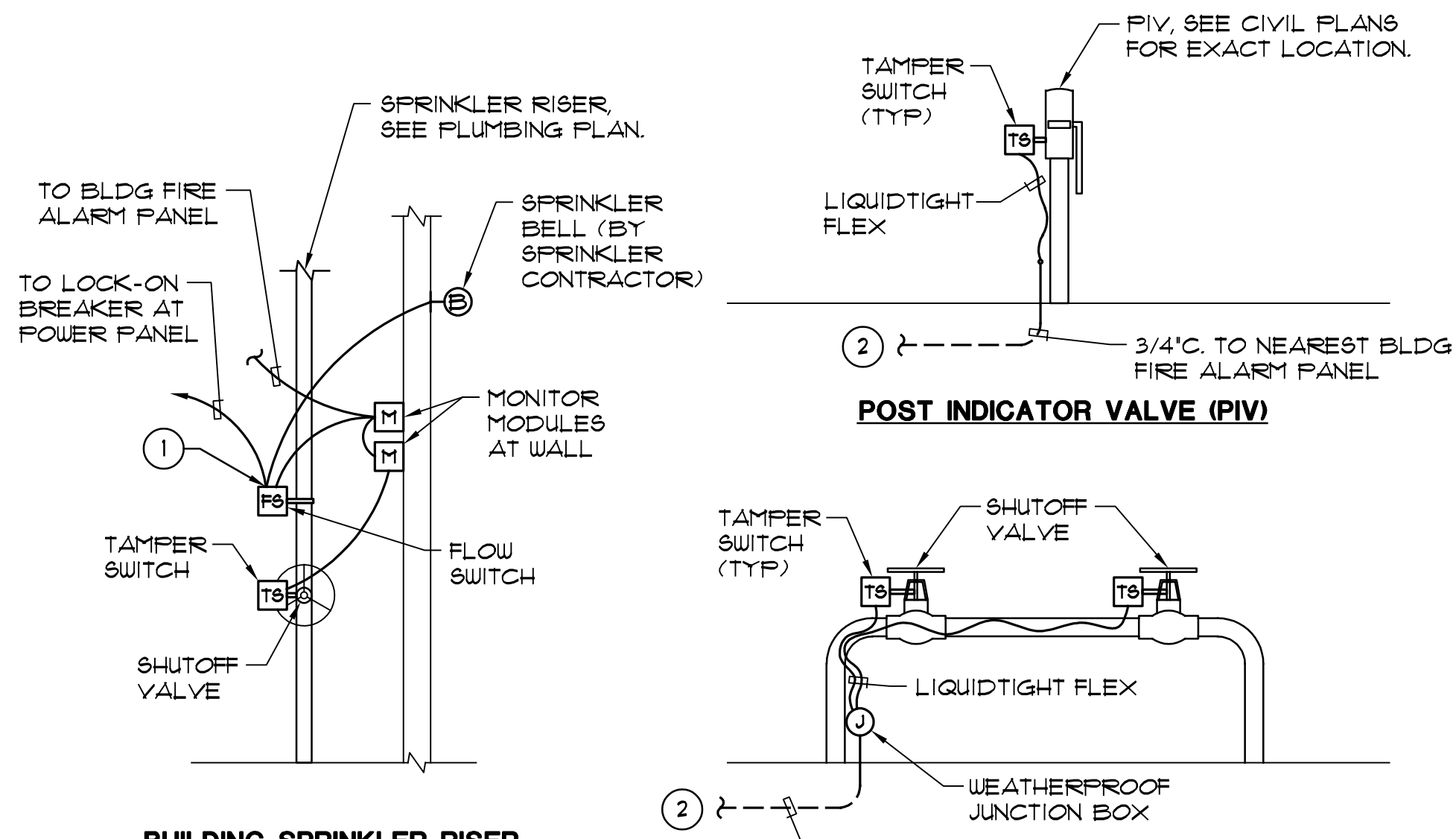
TYPICAL CONDUIT DETAIL
NO SCALE

1
E5.1



CONDUIT CONNECTIONS AT BUILDING SEPARATIONS
NO SCALE

2
E5.1



- KEY NOTES:**
- 1 TAMPER SWITCH AUXILIARY CONTACTS TO ACTIVATE SPRINKLER BELL.
 - 2 PROVIDE CONNECTION TO MONITOR MODULE LOCATED IN FIRE RISER ROOM OR ABOVE NEAREST ACCESSIBLE CEILING IN NEAREST BUILDING.

TYPICAL FIRE SPRINKLER SYSTEM CONNECTION DETAILS
NO SCALE

3
E5.1

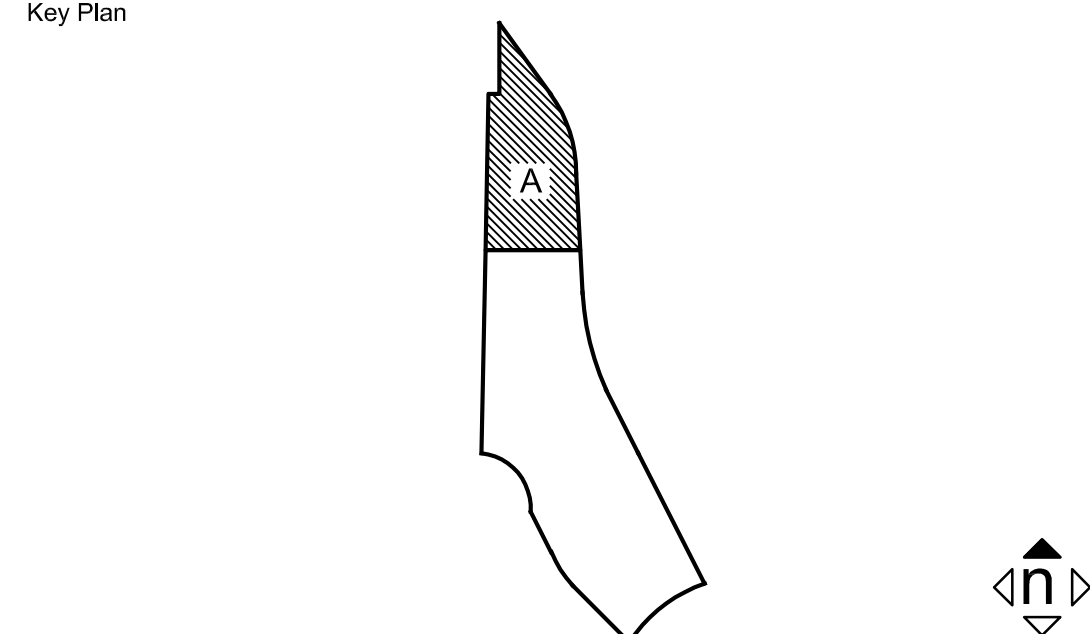
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Consultant Seal	Agency Approval IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACR _____ FLS _____ SSS _____ DATE _____
-----------------	--

Project Title
Palomar North Education Center
Palomar College
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
ELECTRICAL DETAILS

	Designed: JF	Project No. 5015019-102
	Drawn: AO	Scale:
	QA/QC: RG	Drawing No. E5.1
Date: 10/13/2017		

IVB

120/208 3PH, 4WIRE

200K Neutral Bus
(INTERLOCK)VS Protection
(REACTIVE)VS Protection

Service Entrance Rated
Load Side Feed thru Lug

400 AMP

Enclosure

Breaker X

Lug Released

Surface X

ENCLOSURE TYPE

NEMA TYPE 1
NEMA TYPE 3R
NEMA TYPE 4X

ENCLOSURE NOTE

PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING,
MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL

LCL

NHL

CIRCUIT DESCRIPTION

Panel D07A

Panel D01B

Panel D01

Panel B01A

Panel B01B

Spare

Spare

Spare

Spare

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

SPECIAL PANEL

AMP

POLE

NO

PHASE A

PHASE B

PHASE C

NO

AMP

POLE

CIRCUIT DESCRIPTION

LCL

NHL

200

2

1

12000
7200

2

100

2

Panel E01

200

2

5

10000
7200

12000
7200

4

Panel F01

200

2

7

10000
7200

10000
7200

8

100

2

Panel G01

200

2

9

8000
7200

8

Panel H0

200

2

11

8000
7200

10

100

2

200

2

13

8000
6000

12

Panel I0

200

2

15

8000
6000

14

100

2

Panel J0

200

2

17

8000

16

Spare

200

2

19

7000

18

20

1

Spare

20

1

21

20

20

1

Spare

20

1

23

22

20

1

Spare

20

1

25

24

20

1

Spare

20

1

27

26

20

1

SPACE

20

1

29

28

20

1

SPACE

20

1

31

30

20

1

SPACE

20

1

33

32

20

1

SPACE

20

1

35

34

20

1

SPACE

20

1

37

36

20

1

SPACE

20

1

39

38

20

1

SPACE

20

1

41

40

20

1

SPACE

20

1

43

42

20

1

NOTE #1

NOTE #2

57400

48400

39400

0

0

0

SUB PANEL

SUB PANEL

TOTAL CONNECTED LOAD

57400

48400

39400

HIGH PHASE

ALL PHASES

57400
145200

/ 0.8pf = VA •

120V / 0.9pf = VA •

208V/3PH

5315
448.1

AMPS

DEMAND PER X

NEC 220-34

336

AMPS

[illegible]

PLAN VIEW

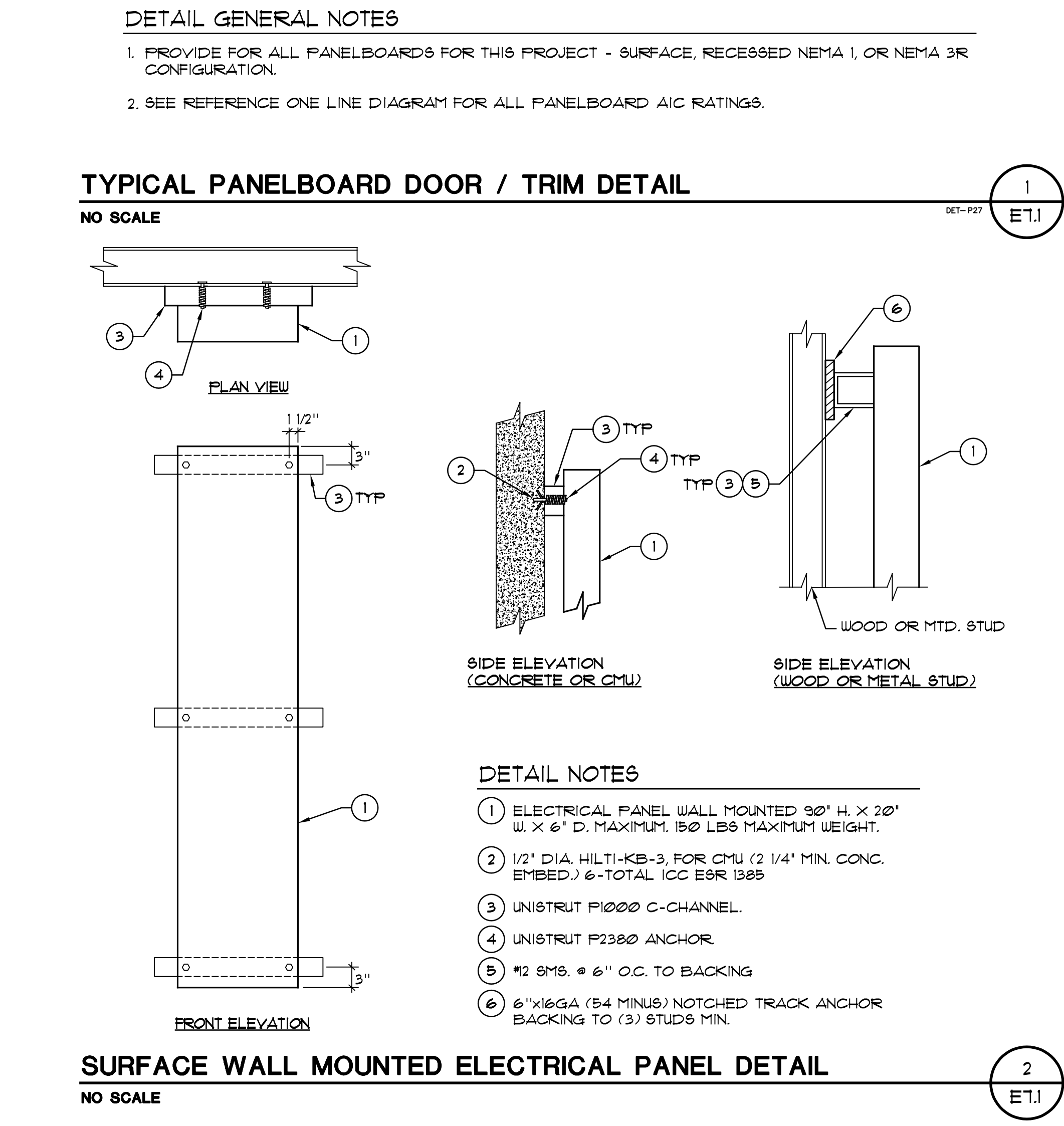
- PANELBOARD BACKBOX
- HINGED TRIM
- TRIM SECURED TO BACKBOX TO ALLOW FOR ACCESS TO INTERIOR GUTTER AREA WITHOUT HAVING TO COMPLETELY REMOVE COVER.
- PANEL NAMEPLATE
- DOOR LOCK
- NON REMOVABLE (CAPTURED) COVER MOUNTING SCREWS
- CONTINUOUS PIANO STYLE HINGE FOR TRIM.
- HINGE FOR OUTER DOOR
- DOOR ALLOWS ACCESS TO BREAKERS AND COVERS ACCESS SCREWS TO DEAD FRONT AREA.

DETAIL GENERAL NOTES

- PROVIDE FOR ALL PANELBOARDS FOR THIS PROJECT - SURFACE, RECESSED NEMA 1, OR NEMA 3R CONFIGURATION.
- SEE REFERENCE ONE LINE DIAGRAM FOR ALL PANELBOARD AIC RATINGS.

TYPICAL PANELBOARD DOOR / TRIM DETAIL

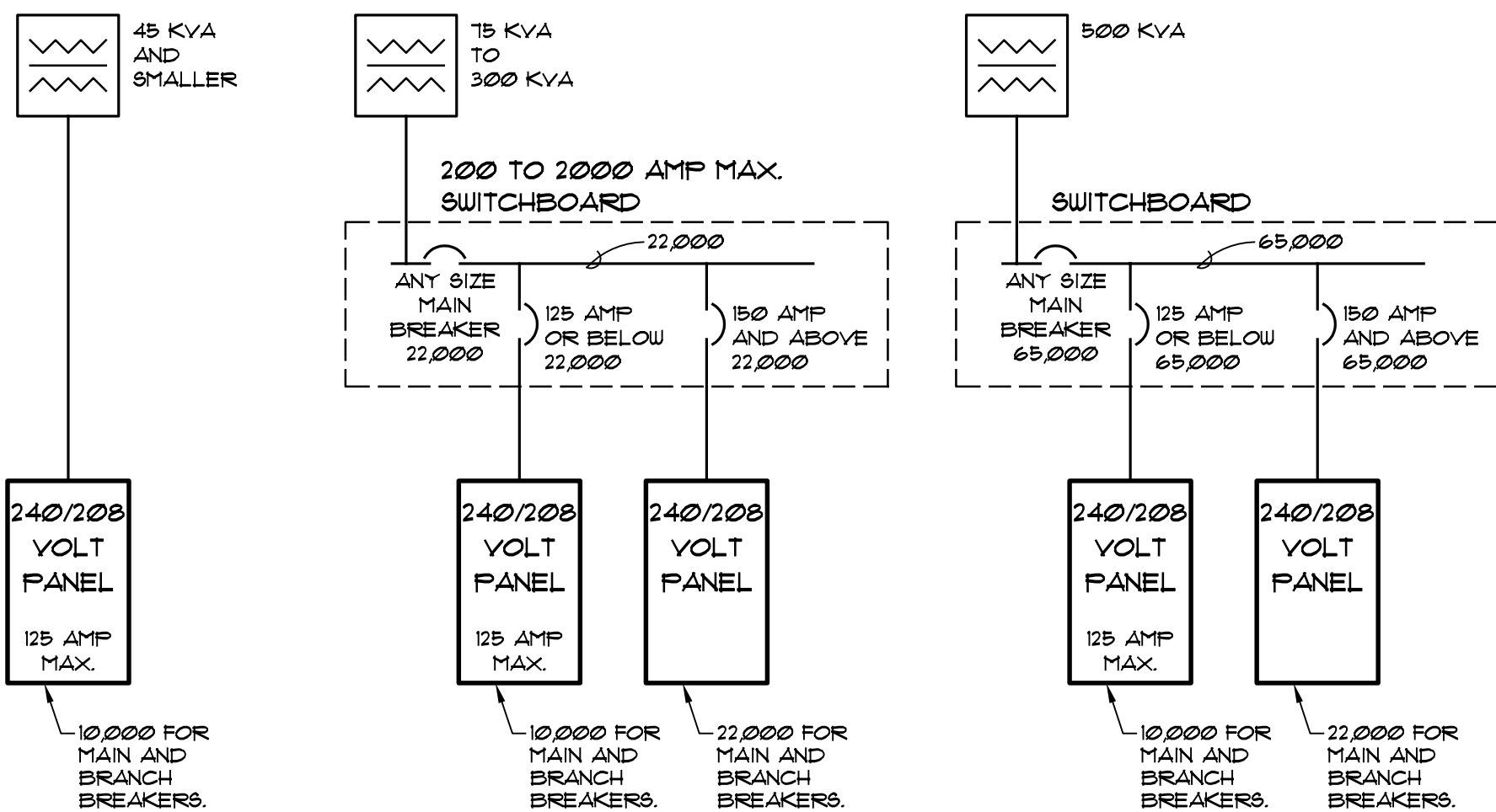
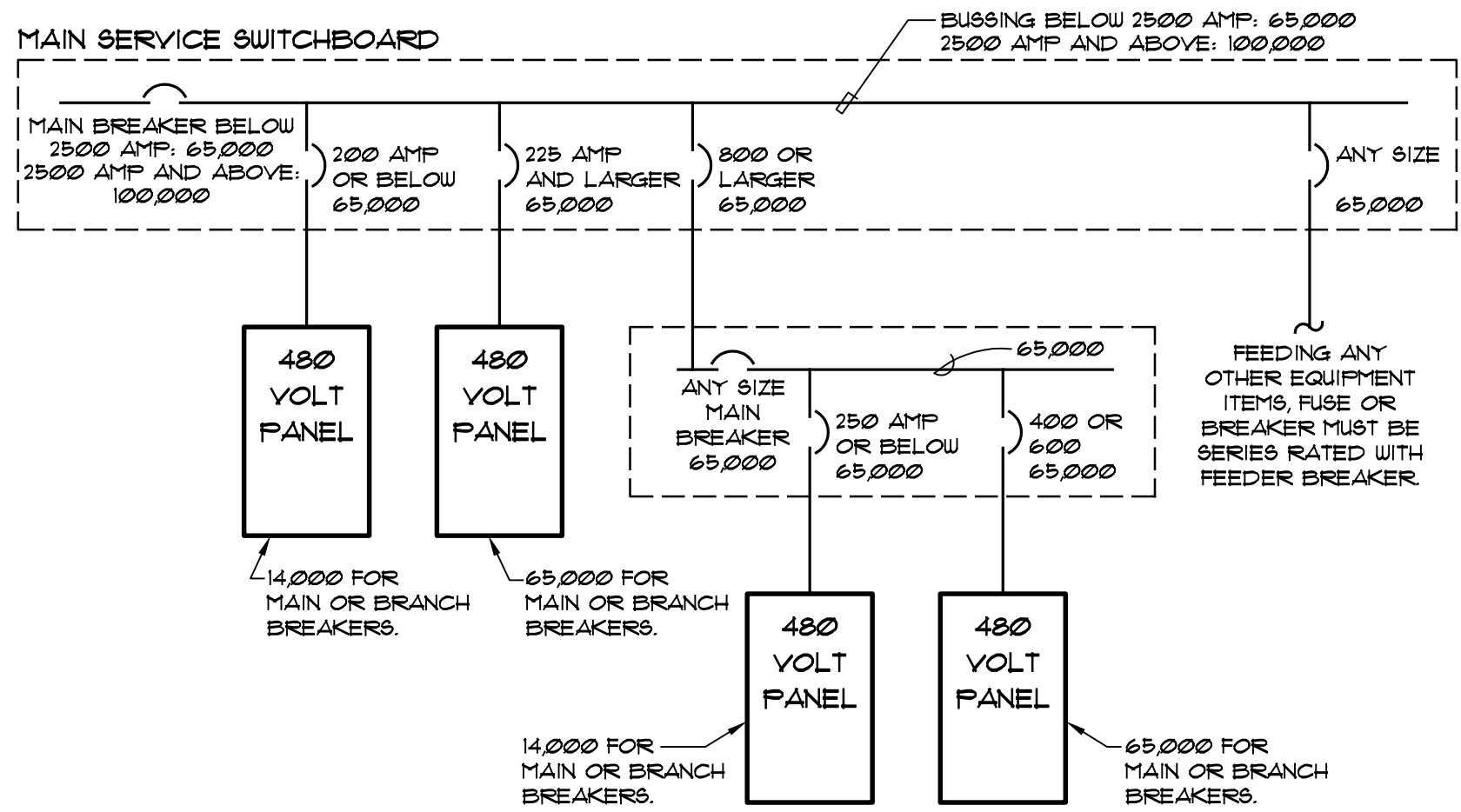
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[illegible]

DSA SUBMITTAL

GENERAL NOTE:

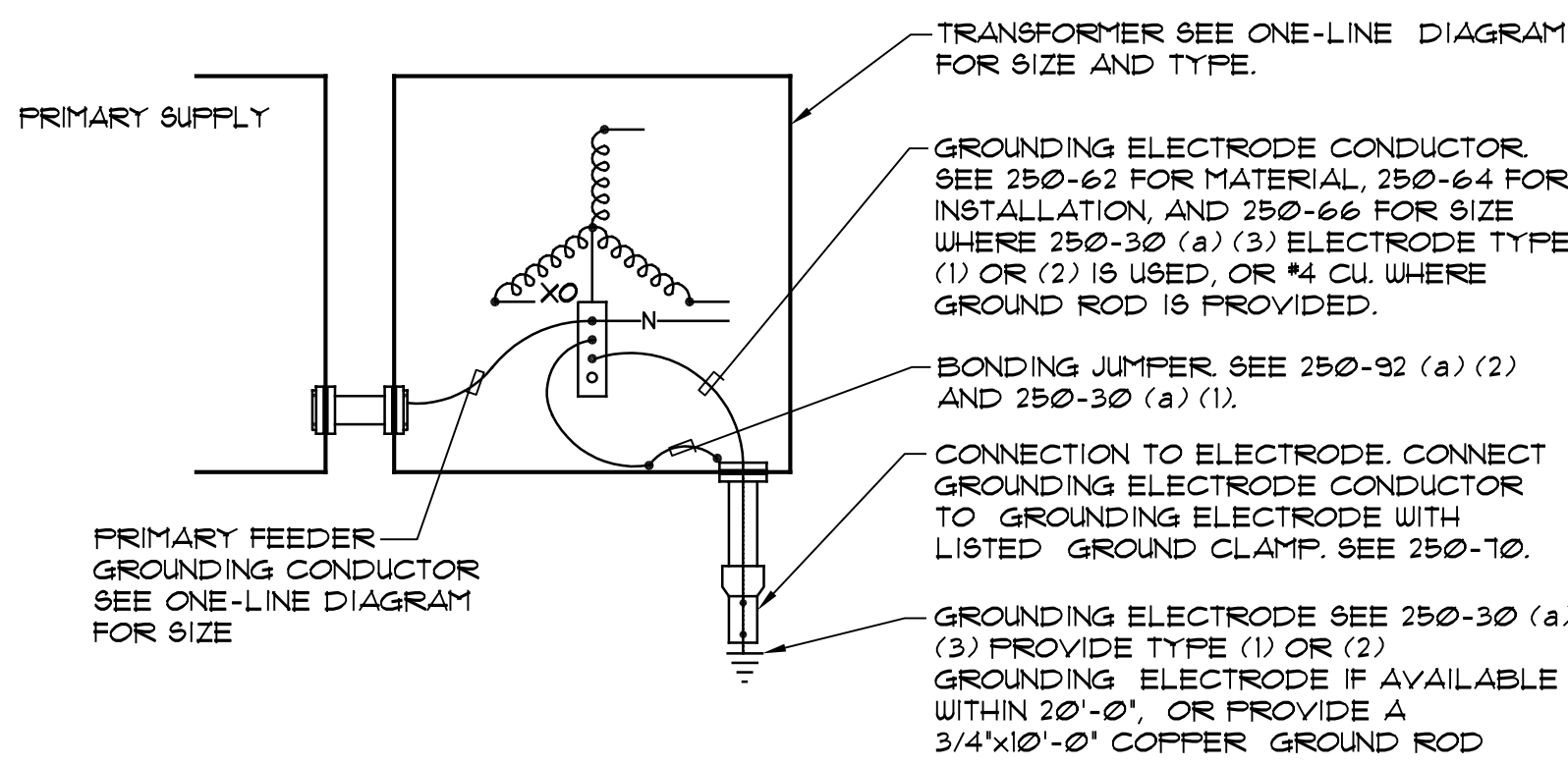
1. ALL RATINGS SHOWN ARE FOR A UL LISTED SERIES COMBINATION OF THE BREAKERS INDICATED.



TYPICAL 480 VOLT SERVICE AIC EQUIPMENT RATINGS

NO SCALE

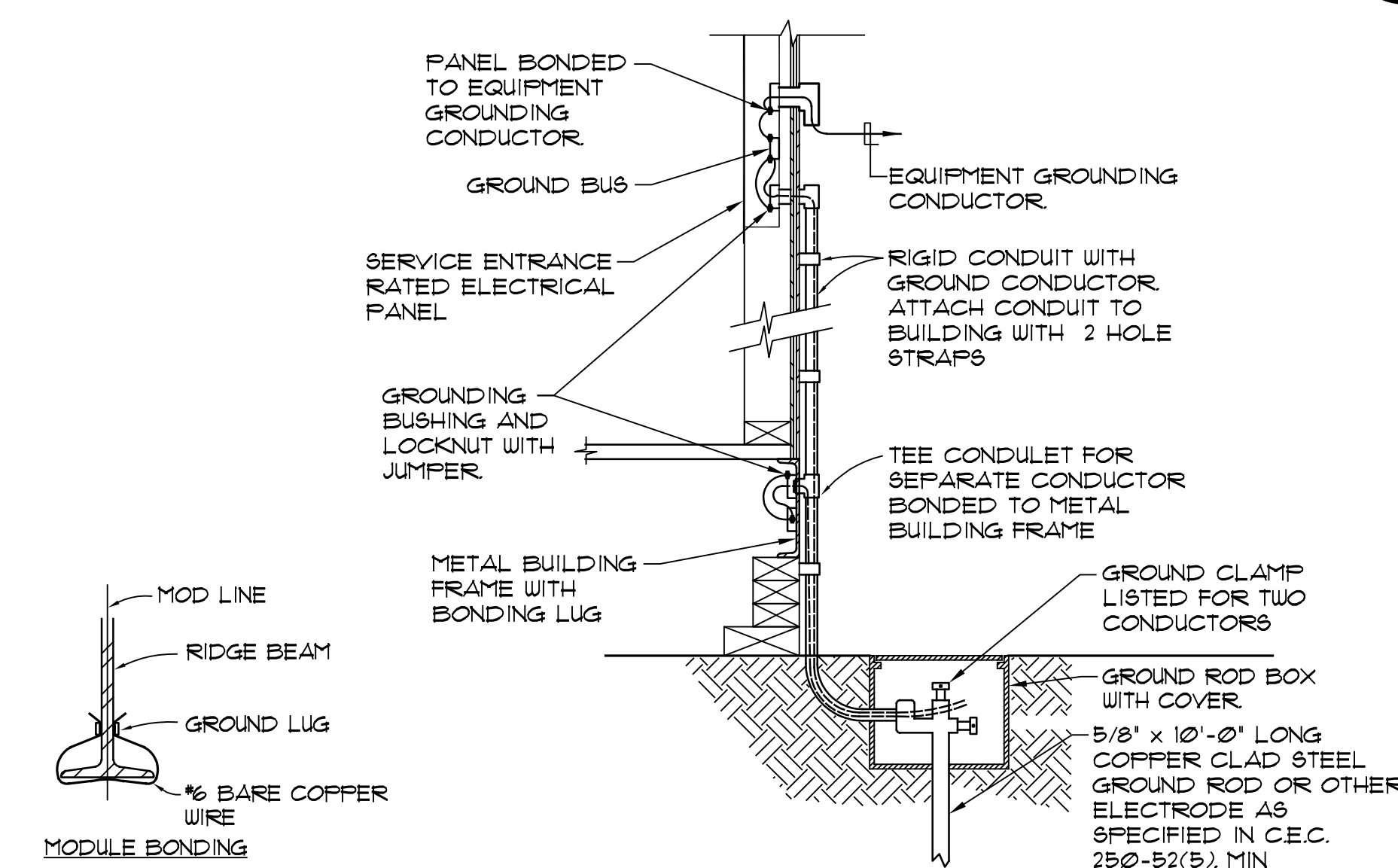
1
E7.3



THREE PHASE TRANSFORMER GROUNDING

NO SCALE

3
E7.3



GENERAL NOTE:

1. SIZE OF CONDUCTOR SHALL COMPLY WITH C.E.C. TABLE 250-66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL (250-52(5)) AND TO METAL BUILDING FRAME (C.E.C. 250-104(C)). IN ADDITION TO THE DETAIL ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE IF AVAILABLE. (C.E.C. 250-104(A)).
3. ALL MODULES OF METAL FRAME BUILDINGS AND RAMP SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, EXTEND CONDUCTORS AS REQUIRED TO ADDITIONAL GROUND RODS AS NEEDED, SEPARATED BY AT LEAST 6'-0" UNTIL RESISTANCE IS 25 OHM OR LESS (C.E.C. 250-56).

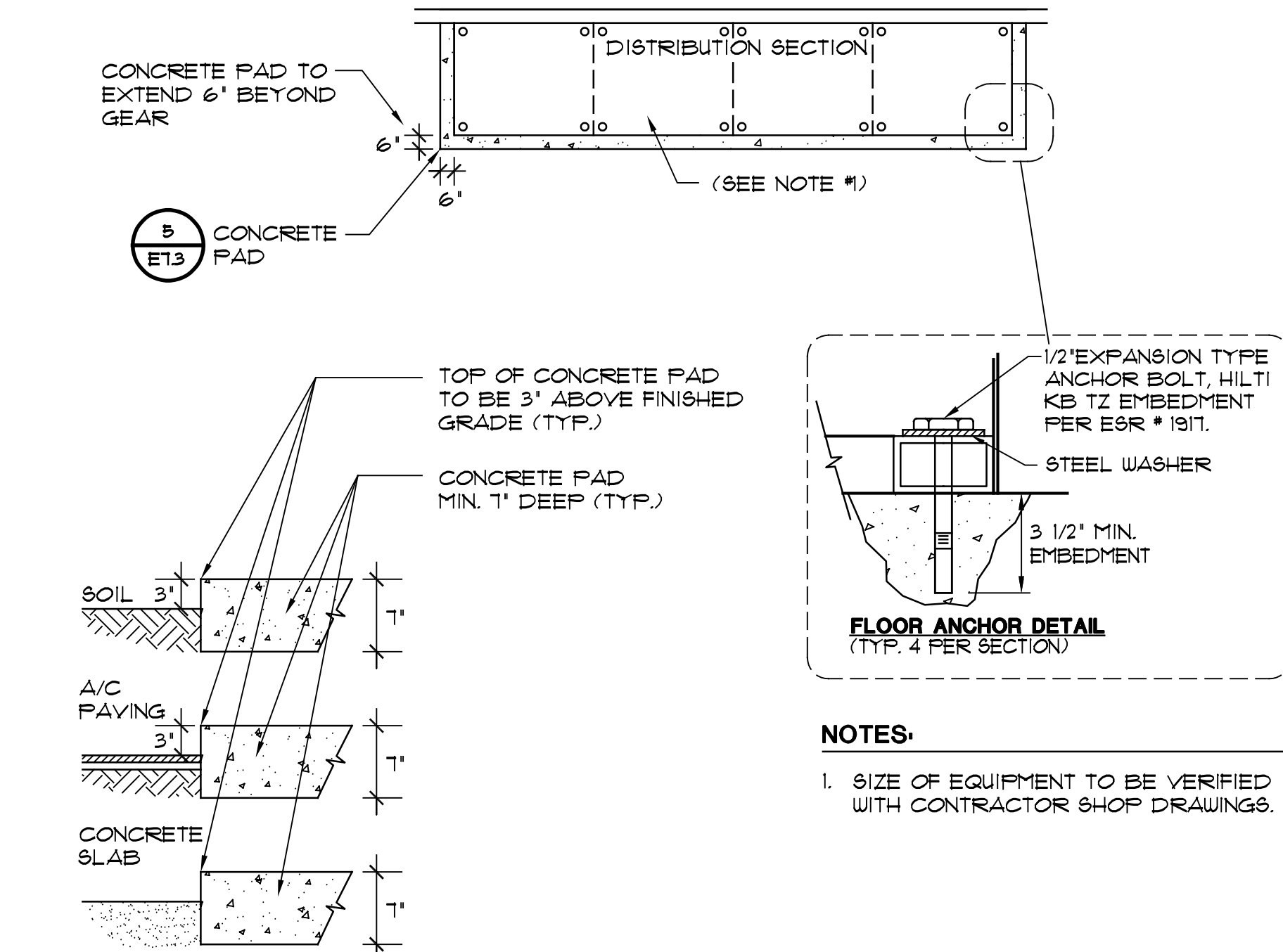
RELOCATABLE CLASSROOM GROUNDING DETAIL

NO SCALE

6
E7.3

TRANSFORMER ANCHORAGE DETAIL

NO SCALE



TYPICAL ELECTRICAL EQUIPMENT PAD DETAIL

NO SCALE

4
E7.3

TYPICAL HOUSEKEEPING PAD DETAIL

NO SCALE

5
E7.3

SINGLE PHASE TRANSFORMER FEEDER SCHEDULE				
ID	RATING	CONDUCTOR	PRIMARY	SECONDARY
T10	10KVA	COPPER	(1) 3/4" 2 #10, 1 #12 GND	(1) 1 1/4" 3 #4, 1 #10 GND
		ALUMINUM	NA	NA
T15	15KVA		(1) 3/4" 2 #8, 1 #10 GND	(1) 1 1/2" 3 #3, 1 #6 GND
			NA	NA
T25	25KVA		(1) 1 1/4" 2 #4, 1 #8 GND	(1) 2" 3 #1, 1 #6 GND
			NA	NA

THREE PHASE TRANSFORMER FEEDER SCHEDULE				
ID	RATING	CONDUCTOR	PRIMARY	SECONDARY
T30	30 KVA	COPPER	(1) 1" 3 #6, 1 #8 GND	(1) 1 1/2" 4 #1, 1 #6 GND
		ALUMINUM	NA	NA
T45	45 KVA	COPPER	(1) 1 1/4" 3 #4, 1 #6 GND	(1) 2" 4 #2/0, 1 #6 GND
		ALUMINUM	NA	NA
T75	75 KVA	COPPER	(1) 2" 3 #1, 1 #6 GND	(1) 3" 4 #250, 1 #4 GND
		ALUMINUM	(1) 2" 3 #2/0, 1 #3 GND	3" 4 #350, 1 #2 GND
T112	112 1/2 KVA	COPPER	(1) 2" 3 #2/0, 1 #4 GND	(2) 3" 4 #3/0, 1 #2 GND
		ALUMINUM	(1) 2" 3 #4/0, 1 #2 GND	(2) 3" 4 #250, 1 #1/0 GND
T160	160 KVA	COPPER	(1) 3" 3 #4/0, 1 #4 GND	(2) 3" 4 #350, 1 #1 GND
		ALUMINUM	(1) 3" 3 #300, 1 #2 GND	(2) 3" 4 #500, 1 #2/0 GND
T225	225 KVA	COPPER	(2) 2" 3 #2/0, 1 #2 GND	(3) 3" 4 #300, 1 #1/0 GND
		ALUMINUM	(2) 2" 3 #4/0, 1 #1/0 GND	(3) 3" 4 #500, 1 #3/0 GND
T300	300 KVA	COPPER	(2) 3" 3 #4/0, 1 #2 GND	(4) 3" 4 #350, 1 #3/0 GND
		ALUMINUM	(2) 3" 3 #300, 1 #1/0 GND	(4) 3" 4 #500, 1 #250 GND
T500	500 KVA	COPPER	(3) 4" 3 #300, 1 #1/0 GND	(6) 3" 4 #250, 1 #250 GND
		ALUMINUM	(3) 4" 3 #400, 1 #3/0 GND	(6) 3" 4 #400, 1 #400 GND

GENERAL NOTES

1. ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. AS PER 1905A METHOD 'A' AND TABLE 19A-A-8. BATCH PLANT INSPECTIONS AND TESTS OF CEMENT AND REINFORCING BARS MAY BE WAIVED PER TITLE 24 SECTION 1704A.4.3 & 1704A.4.4.
2. CONCRETE MIX DESIGNS SHALL COMPLY WITH TITLE 24 SECTION 1905A.2.
3. PORTLAND CEMENT SHALL CONFORM TO (ASTM C-150) TYPE I OR II.
4. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33.
5. CONCRETE PLACEMENT SHALL CONFORM TO TITLE 24 SECTION 1905A.7.
6. ALL REINFORCING BARS SHALL CONFORM TO TITLE 24 SECTION 1903A AND ASTM A-615 GRADE 60.

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KEYNOTES

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#125104 10/3/2017

Key Plan

Palomar North Education Center

Palomar College

35090 Horse Ranch Creek Road
Fallbrook, CA 92028

Consultant Seal

Agency Approval

FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACR. FLS. SSS.

DATE

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017
2		
3		
4		
5		
6		
7		
8		
9		
10		

ONE LINE DETAILS

Architect's Seal

Designed: JF

Project No. 5015019-102

Drawn: AO

Scale:

QAQC: RG

Drawing No. E7.3

Date: 10/13/2017

TELECOM LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	BUILDING NUMBER
	EXPOSED CONDUIT
	EXISTING EXPOSED CONDUIT
	UNDERGROUND CONDUIT
	EXISTING UNDERGROUND CONDUIT
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT WITH CAP
	WALL MOUNTED PHONE- STUB A 1-1/4" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. PROVIDE RANDL SS BOX T-55017 MINIMUM WITH SINGLE GANG RING. (#) DENOTES THE QUANTITY OF CABLES PER OUTLET.
	COMBINATION TELEPHONE AND DATA OUTLET BOX. WALL MOUNTED. STUB A 1-1/4" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. PROVIDE RANDL SS BOX T-55017 MINIMUM WITH SINGLE GANG RING. (#) DENOTES THE QUANTITY OF CABLES PER OUTLET.
	DATA OUTLET BOX. FLUSH MOUNTED IN CEILING. PROVIDE AND INSTALL (2) CAT 6A CABLES/JACKS TERMINATED IN A 4-PORT FACEPLATE.
	COMBINATION TELEPHONE AND DATA OUTLET BOX. WALL MOUNTED. STUB A 1-1/4" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. PROVIDE RANDL SS BOX T-55017 MINIMUM WITH SINGLE GANG RING. PROVIDE AND INSTALL (2) CAT 6A CABLES/JACKS TERMINATED IN A 4-PORT FACEPLATE.
	COMBINATION TELEPHONE AND DATA OUTLET BOX. MOUNTED IN FLOOR BOX OR POKE-THRU PER PLAN FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX OR POKE-THRU SYMBOL. (#) DENOTES THE QUANTITY OF CABLES PER OUTLET.
	INTERIOR WIRELESS ACCESS POINT - CEILING MOUNTED, FURNISH AND INSTALL (2) CAT6A CABLE IN SURFACE MOUNT MODULAR OUTLET. FURNISH AND INSTALL GBERON WAP MOUNT AT EACH ACCESS LOCATION. MODEL #1046-C2047S800. COORDINATE GBERON MOUNT WITH CEILING INSTALLATION.
	EXTERIOR WIRELESS ACCESS POINT - WALL MOUNTED, FURNISH AND INSTALL (2) CAT6A CABLE IN SURFACE MOUNT MODULAR OUTLET. FURNISH AND INSTALL TESSCO ENCLOSURE BOX WITH ANTENNA. MODEL# 552103. COORDINATE INSTALLATION AND WAP REQUIREMENT WITH CAMPUS IT

TELECOM RESPONSIBILITY MATRIX

TASK	PARTY
TELECOM CONDUIT, BACKBOXES, SLEEVES	ELITE
TELECOM CONDUIT ID LABELING AND PULLSTRINGS	ELITE
GROUNDING FOR TELECOM	EC
TELECOM EQUIPMENT (WAP DEVICES, NETWORK SWITCHES, ROUTERS, SERVERS)	OFOI
TELECOM CABLING AND TERMINATION	CC
TELECOM FACEPLATES AND DIVIDERS	CC
WAP TERRAWEAVE/VENTEV EXTERIOR MOUNT BOX W/ANTENNA	CC
LEGEND	
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
CC	COMMUNICATIONS CONTRACTOR
SC	SECURITY CONTRACTOR
AVC	AUDIO VISUAL CONTRACTOR
ELITE	ELITE MODULAR

TELECOM GENERAL NOTES

- ALL TELECOMMUNICATIONS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE PALOMAR COLLEGE TELECOMMUNICATIONS INFRASTRUCTURE STANDARDS AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
- IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
- OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS OR THE MISDESCRIPTION OF DETAILS OF WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANYWAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
- FOR PURPOSES OF CLEARNESS AND LEGIBILITY THE TELECOM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE TELECOM WORK INTERFACES WITH OTHER TRADES.
- USE "J" HOOKS FOR THE BULK OF THE STATION CABLE DISTRIBUTION. DO NOT USE CEILING TILE WIRE HANGERS, WATER OR ELECTRICAL PIPES, OR LIGHT FIXTURES TO HANG CABLE. CABLE MUST BE A MINIMUM OF SIX INCHES ABOVE THE CEILING TILE AND MUST NOT COME WITHIN TWELVE INCHES OF A LIGHT FIXTURE.
- ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED EVERY FIVE FEET AT A MAXIMUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF BROKEN OR DAMAGED TILES.
- ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP MATERIAL INSTALLED, PER THE MANUFACTURERS INSTRUCTIONS.
- ALL STATION CABLE SHALL BE PLACED WITH A MINIMUM 2 METER MAINTENANCE LOOP ABOVE CEILING AT OUTLET LOCATION. A MINIMUM MAINTENANCE LOOP OF 1 METER SHALL BE PRODUCED AT IDF LOCATION IN LADDER RACK.
- CONDUIT SHALL BE FILLED TO MAXIMUM CAPACITY (PER STANDARD) BEFORE UTILIZING ANOTHER VACANT CONDUIT.
- ALL STATION OUTLETS AND TERMINALS INCLUDING EXISTING SHALL BE PROPERLY IDENTIFIED USING THE STANDARD CAMPUS INTERNAL DISTRIBUTION NUMBERING SCHEME. ALL LABELS BE PREPRINTED OR TYPED.
- FIBER CABLE SHALL BE PLACED WITH SIX METER (6) MAINTENANCE LOOP AT BOTH ENDS OF THE RUN. THE MAINTENANCE LOOP SHALL BE SECURED IN SUCH A MANNER TO PROVIDE PROTECTION DURING SUBSEQUENT CABLE PULLS
- ANY DEVIATIONS FROM PLANS OR SPECIFICATIONS MUST BE APPROVED IN WRITING BY THE ENGINEER AND DISTRICT REPRESENTATIVE.
- ALL NEW STATION CABLES/OUTLETS SHALL BE TESTED AND DOCUMENTED USING A PAIR SCANNER SPECIFICALLY DESIGNED TO TEST THE TYPE OF CABLE INSTALLED. TEST RESULTS SHALL BE ONE PAGE PER AND NOTED WITH THE STATION/JACK NUMBERING SCHEME THAT IS STANDARDIZED FOR THE DISTRICT.
- ALL WORK SHALL BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND ALL DAMAGE TO DISTRICT PROPERTY REPAIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE.
- ALL FOOTAGES ON DRAWINGS ARE ESTIMATED AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIAL.
- PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.
- ALL CHANGES TO STRUCTURES (BUILDING, DRILLING, CORING, ETC.) NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.

AUDIOVISUAL LEGEND

	DISPLAY BACK BOX WITH POWER AND DATA. LEGRAND EFSB4 BACK BOX.
	INSTRUCTOR POSITION POWER, PHONE AND DATA. INSTRUCTOR POSITION, STUB 1.25" CONDUIT TO CEILING FOR AV.
	CEILING MOUNT PROJECTOR BACK BOX, LEGRAND ECB WITH ECB-CBKIT. PART NUMBER FOR REFERENCE ONLY.
	CEILING MOUNTED AV SPEAKERS.
	EMERGENCY PAGING SPEAKERS. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 1" CONDUIT TO ACCESSIBLE CEILING SPACE. REFER TO TAV4.01 FOR CABLING DETAILS.

AV RESPONSIBILITY MATRIX

TASK	PARTY
AV CONDUIT, BACKBOXES, SLEEVES	EC
AV CONDUIT ID LABELING AND PULLSTRINGS	EC
POWER TO AUDIOVISUAL EQUIPMENT	EC
AV EQUIPMENT STRUCTURAL SUPPORTS (SCREENS, DISPLAY BACKING, SPEAKERS)	EC
AV EQUIPMENT RACKS AND CREDEENZA CABINET INSTALLATION	AVC
AV EQUIPMENT (MANUAL SCREENS, PROJECTORS, DISPLAYS, SPEAKERS)	AVC
AV CABLING AND TERMINATION	AVC
AV FACEPLATES AND DIVIDERS	AVC

LEGEND	
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
CC	COMMUNICATIONS CONTRACTOR
SC	SECURITY CONTRACTOR
AVC	AUDIO VISUAL CONTRACTOR
ELITE	ELITE MODULAR

SECURITY LEGEND

	ACCESS CONTROL PROXIMITY CARD/FOB READER. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SO DEEP JUNCTION BOX AT SWITCH HEIGHT WITH A 1" EMT CONDUIT CONNECTED ABOVE DOOR JUNCTION BOX. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, CONDUIT SUPPORT, CONNECTORS, COUPLINGS, PLASTIC BUSHINGS, PULL STRINGS, OUTLET BOX AND MUD RING.
	WALL MOUNTED EMERGENCY PHONE. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SO DEEP JUNCTION BOX AT SWITCH HEIGHT WITH A 1" EMT CONDUIT TO ACCESSIBLE CEILING SPACE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, CONDUIT SUPPORT, CONNECTORS, COUPLINGS, PLASTIC BUSHINGS, PULL STRINGS, OUTLET BOX AND MUD RING.
	SECURITY ALARM DUAL TECHNOLOGY MOTION SENSOR (CEILING MOUNTED).
	ACCESS CONTROL KEY PAD. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SO DEEP JUNCTION BOX AT SWITCH HEIGHT WITH A 1" EMT CONDUIT TO ACCESSIBLE CEILING SPACE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, CONDUIT SUPPORT, CONNECTORS, COUPLINGS, PLASTIC BUSHINGS, PULL STRINGS, OUTLET BOX AND MUD RING.
	ACCESS CONTROL ELECTRONIC DOOR HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 1" EMT CONDUIT CONNECTED TO THE DOOR CONTACT OUTLET BOX
	ACCESS CONTROL REQUEST TO EXIT SENSOR. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 1" EMT CONDUIT CONNECTED TO THE DOOR CONTACT OUTLET BOX
	ACCESS CONTROL DOOR CONTACT SENSOR. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SO DEEP JUNCTION BOX ABOVE DOOR WITH A 1" EMT CONDUIT STUBBED INTO NEAREST ACCESSIBLE CEILING SPACE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, CONDUIT SUPPORT, CONNECTORS, COUPLINGS, PLASTIC BUSHINGS, PULL STRINGS, OUTLET BOX AND MUD RING.
	OUTDOOR RATED WALL MOUNTED CAMERA. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4" SO DEEP JUNCTION BOX WITH 1" EMT CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE (U.O.N). ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT SUPPORT, CONNECTORS, COUPLINGS, PLASTIC BUSHING, PULL STRING, OUTLET BOX, AND MUD RING. EACH CAMERA TO HAVE (1) CATEGORY 6A CABLE PROVIDED BY SECURITY CONTRACTOR.
	SECURITY ACCESS CONTROL PANEL.

AUDIOVISUAL GENERAL NOTES

- THE CONDUIT DIAGRAMS SHOWN ON THESE DRAWING SETS ARE FOR AV CABLING ONLY. THE DIAGRAMS ARE SHOWN ONLY FOR INTENT, AND ACTUAL ROUTING SHALL BE BASED ON FIELD CONDITIONS.
- ELITE MODULAR SHALL PROVIDE ALL CONDUIT, JUNCTION BOXES, CABLE TRAYS, PULL STRING, ENCLOSURES, FLOOR BOXES, POWER RECEPTACLES AND POWER CONNECTIONS IDENTIFIED IN THESE DRAWINGS AND SPECIFICATIONS.
- ALL CONDUIT CONNECTORS SHALL BE FURNISHED WITH NYLON BUSHINGS AND CHASE NIPPLES TO PREVENT DAMAGE TO CABLES FROM UNEVENLY CUT CONDUIT.
- ALL JUNCTION BOXES IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED, AND CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- CAULK OR SEAL PENETRATIONS THAT ARE MADE THROUGH ACOUSTIC WALLS WITH ACOUSTICAL SEALANT.
- DIMENSIONS ARE INDICATED ON AUDIOVISUAL DRAWINGS WHERE CRITICAL TO THE INSTALLATION OF THE AUDIOVISUAL DEVICES. WHERE INFORMATION AND REQUIREMENTS CONFLICT WITH SPECIFICATIONS AND DESIGNS DELINEATED ELSEWHERE, THE GENERAL CONTRACTOR SHALL IMMEDIATELY BRING SUCH CONFLICTS TO THE ATTENTION OF THE ARCHITECT.
- ELITE MODULAR SHALL PROVIDE STRUCTURAL SUPPORT FOR MOUNTING OF PROJECTION SCREEN AT LOCATIONS DESIGNATED IN THESE DRAWINGS. THIS SHALL ALSO INCLUDE, BUT NOT BE LIMITED TO, BLOCKING FOR WALL MOUNTED DEVICES AND OVERHEAD SUPPORT FOR CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. REFER TO ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS AND REQUIREMENTS.
- DATA OUTLETS AND POWER OUTLETS ARE SHOWN FOR REFERENCE ONLY. REFER TO THE TELECOMMUNICATION DRAWINGS FOR EXACT LOCATION OF THE DATA COMMUNICATION OUTLETS AND TO THE ELECTRICAL DRAWINGS FOR THE EXACT LOCATION OF THE POWER RECEPTACLES.
- CEILING MOUNTED SPEAKER ENCLOSURES SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE. DO NOT HANG SPEAKER ENCLOSURES FROM CEILING.
- GENERAL CONTRACTOR SHALL PROVIDE PULL STRINGS WITH DESTINATION LABEL IN ALL CONDUIT SPECIFIED IN AUDIOVISUAL DRAWINGS.
- GENERAL CONTRACTOR SHALL PROVIDE BLANK COVER PLATES AT ALL AUDIOVISUAL JUNCTION BOXES. VERIFY ALL DEVICE PLATE FINISHES WITH ARCHITECT.
- COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL AUDIOVISUAL JUNCTION BOXES AND DEVICES WITH ARCHITECT.
- SOME JUNCTION BOXES AND ENCLOSURES SPECIFIED IN AUDIOVISUAL DRAWINGS MAY BE DEEPER THAN STANDARD WALL DEPTH. COORDINATE WITH ARCHITECT TO VERIFY INSTALLATION REQUIREMENTS AND DETAILING. AT A MINIMUM, OUTLET BOXES SHALL BE AT LEAST 3.5" DEEP.
- WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX, ELITE MODULAR SHALL LABEL EACH CONDUIT IN A MANNER ALLOWING IDENTIFICATION OF CONDUITS AFTER WALL FINISHED ARE APPLIED.
- ALL CONDUITS SPECIFIED SHALL BE EMT (GALVANIZED) OR RIGID TYPE. FLEXIBLE STEEL CONDUITS MAY BE USED IN RUNS OF 72" OR LESS. FLEXIBLE CONDUITS SHALL NOT BE ALLOWED WHERE ACCESS CANNOT BE PROVIDED TO THE FULL LENGTH OF THE CONDUIT RUN. PVC IS UNACCEPTABLE UNLESS OTHERWISE NOTED.

SECURITY GENERAL NOTES

- ELITE MODULAR SHALL PROVIDE ALL CONDUIT, JUNCTION BOXES, CABLE TRAYS, PULL STRING, ENCLOSURES, FLOOR BOXES, POWER RECEPTACLES AND POWER CONNECTIONS IDENTIFIED IN THESE DRAWINGS AND SPECIFICATIONS.
- ALL CONDUIT RUNS SHALL BE CONTINUOUS FROM END TO END. NO CONDUIT RUNS SHALL EXCEED 100 FEET.
- ALL CONDUIT CONNECTORS SHALL BE FURNISHED WITH NYLON BUSHINGS AND CHASE NIPPLES TO PREVENT DAMAGE TO CABLES FROM UNEVENLY CUT CONDUIT.
- ALL JUNCTION BOXES IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED, AND CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- CAULK OR SEAL PENETRATIONS THAT ARE MADE THROUGH ACOUSTIC WALLS WITH ACOUSTICAL SEALANT.

SECURITY RESPONSIBILITY MATRIX

TASK	PARTY
SECURITY CONDUIT, BACKBOXES, SLEEVES	ELITE
SECURITY CONDUIT ID LABELING AND PULLSTRINGS	ELITE
POWER TO ACS SECURITY EQUIPMENT	ELITE
SECURITY EQUIPMENT (CAMERAS, ACS DEVICE, HEADEND EQUIPMENT)	SC
ACCESS CONTROL AND INTRUSION CABLING AND TERMINATION	SC
SECURITY FACEPLATES AND DIVIDERS	SC
DOOR HARDWARE PROCURE AND INSTALL	GC
SECURITY CATEGORY CABLING AND TERMINATION	CC

LEGEND	
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
CC	COMMUNICATIONS CONTRACTOR
SC	SECURITY CONTRACTOR
AVC	AUDIO VISUAL CONTRACTOR
ELITE	ELITE MODULAR

ABBREVIATIONS

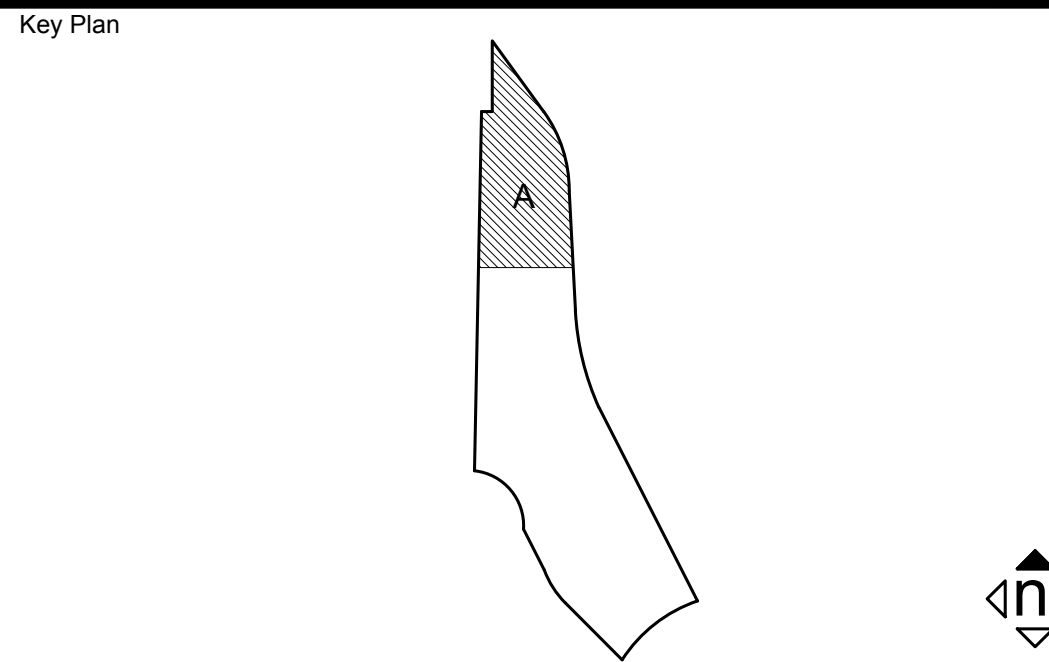
ABBREVIATION	DESCRIPTION
A OR AMP	AMPERES
ACCU	AIR CURED CONDENSING UNIT
ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ARCH.	ARCHITECT; ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BDF	BUILDING DISTRIBUTION FRAME
C	CONDUIT
CKT	CIRCUIT
CLG.	CEILING
C.O.	CONDUIT ONLY WITH PULL WIRE
CU	COPPER
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EQUIP	EQUIPMENT
EXIST (E)	EXISTING
EW	EQUIPPED WITH
FCU	FAN COIL UNIT
FIN.	FINISH
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FOC	FIBER OPTIC CABLE
FT	FEET
FTU	FIBER TERMINAL UNIT
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
GRND	GROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
JB	JUNCTION BOX
LTG	LIGHTING
MD	MAIN DISTRIBUTION FRAME
MDF	MOUNTING HEIGHT
MM	MULTIMODE
MTG.	MOUNTING
N	NORTH
NEC	NATIONAL ELECTRICAL CODE
NOT IN	NOT IN CONTRACT
NQ	NUMBER
PH	PHASE
PNL	PANEL
PWR	POWER
PRO	PROTECTED TERMINAL
POE	POWER OVER ETHERNET
REC/RECEPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
SF	SQUARE FEET
SHT	SHEET
SM	SINGLE MODE
SMJ	SURFACE MOUNTED J-BOX
SP	SINGLE POLE
SPECS	SPECIFICATIONS
SW	SWITCH
TYP	TYPICAL
TERM	TERMINATION
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
V-A	VOLT-AMPERES
W	WATTS
W/	WITH
W/O	WITHOUT
WAP	WIRELESS ACCESS POINT
GC	GENERAL CONTRACTOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED

SHEET INDEX

SHEET	DESCRIPTION
T1.00	GENERAL NOTES, LEGEND AND ABBREVIATIONS
T1.01	INTERIM VILLAGE SITE PLAN
T2.01	FLOOR PLAN
T4.01	SINGLE LINE DIAGRAM
T5.01	DETAILS
T5.02	DETAILS
TAV4.01	AUDIOVISUAL SYSTEM DIAGRAM PAGING SYSTEM

KEYNOTES

NOTES



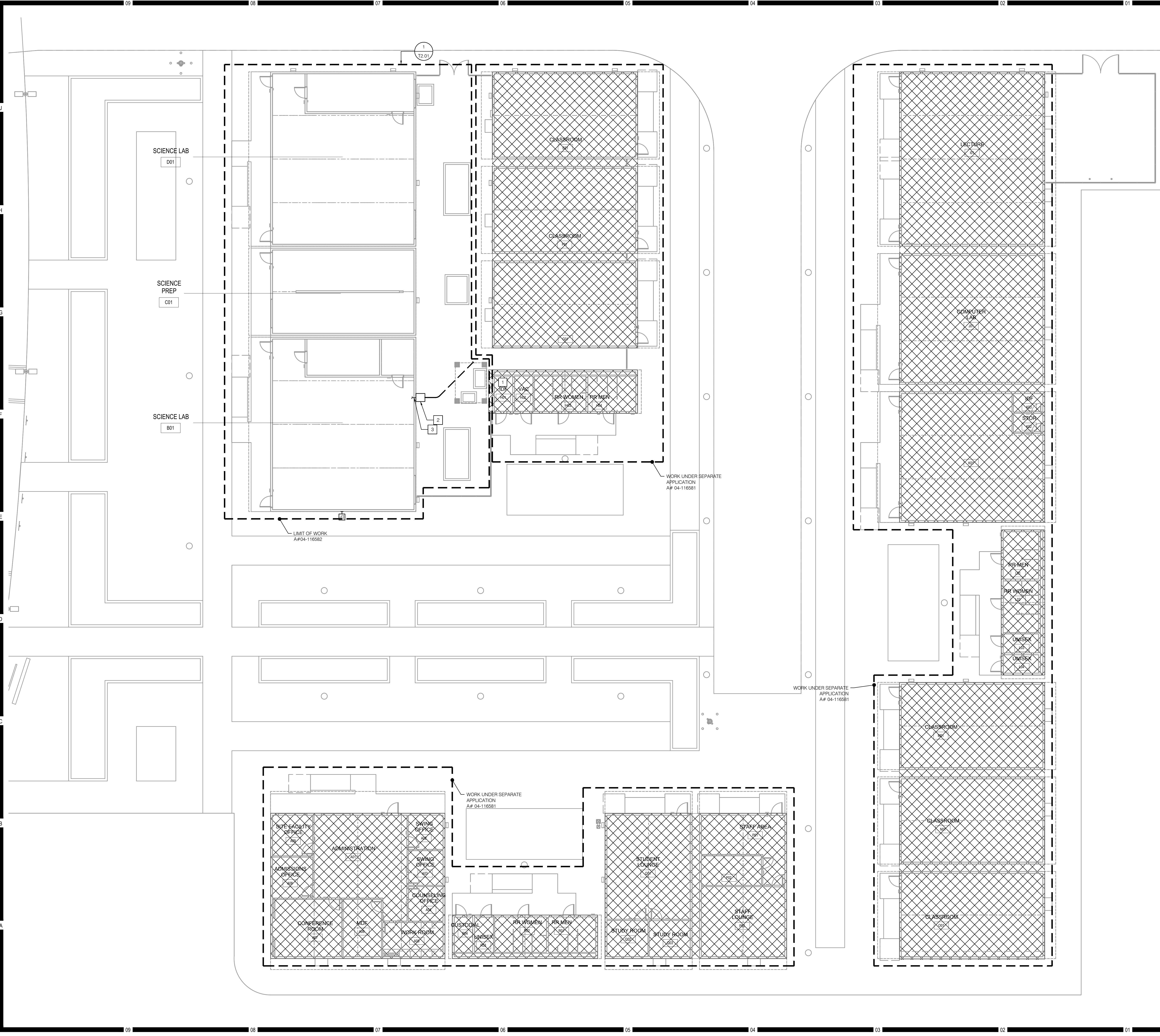
Consultant Seal	Agency Approval IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACS _____ FLS _____ SSS _____ DATE _____	FILE NO. 37-C1
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Project Title PALOMAR COLLEGE Learning to Succeed	Palomar North Education Center - Interim Village Palomar College 35000 Horse Ranch Creek Road Fallbrook, CA 92028
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No.	Description	Date
	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
General Notes, Legend And Abbreviations

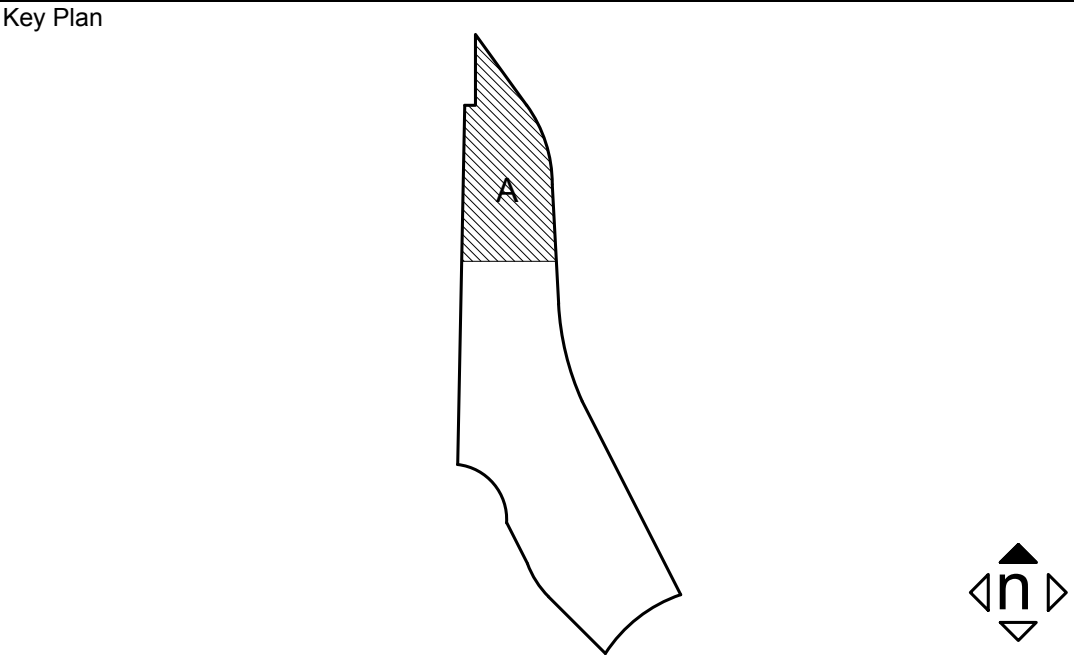
Architect's Seal DESIGNED ARCHITECT No. C-32437 STATE OF CALIFORNIA EXPI. 02-28-19	Designed: JQ Drawn: JQ QAQC: ER Date: 10/13/2017	Project No. 5015019-102 Scale: No Scale Drawing No. T1.00
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KEYNOTES

- 1 ALL CABLING FOR LAB ROOMS B01, C01, AND D01 TO CABLE TO IDF ROOM H01.
- 2 FURNISH AND INSTALL 24" x 36" x 6" WALL MOUNTED PULLBOX.
- 3 PROVIDE AND INSTALL (5) 2" CONDUIT STUBBED INTO THE CEILING SPACE.

NOTES




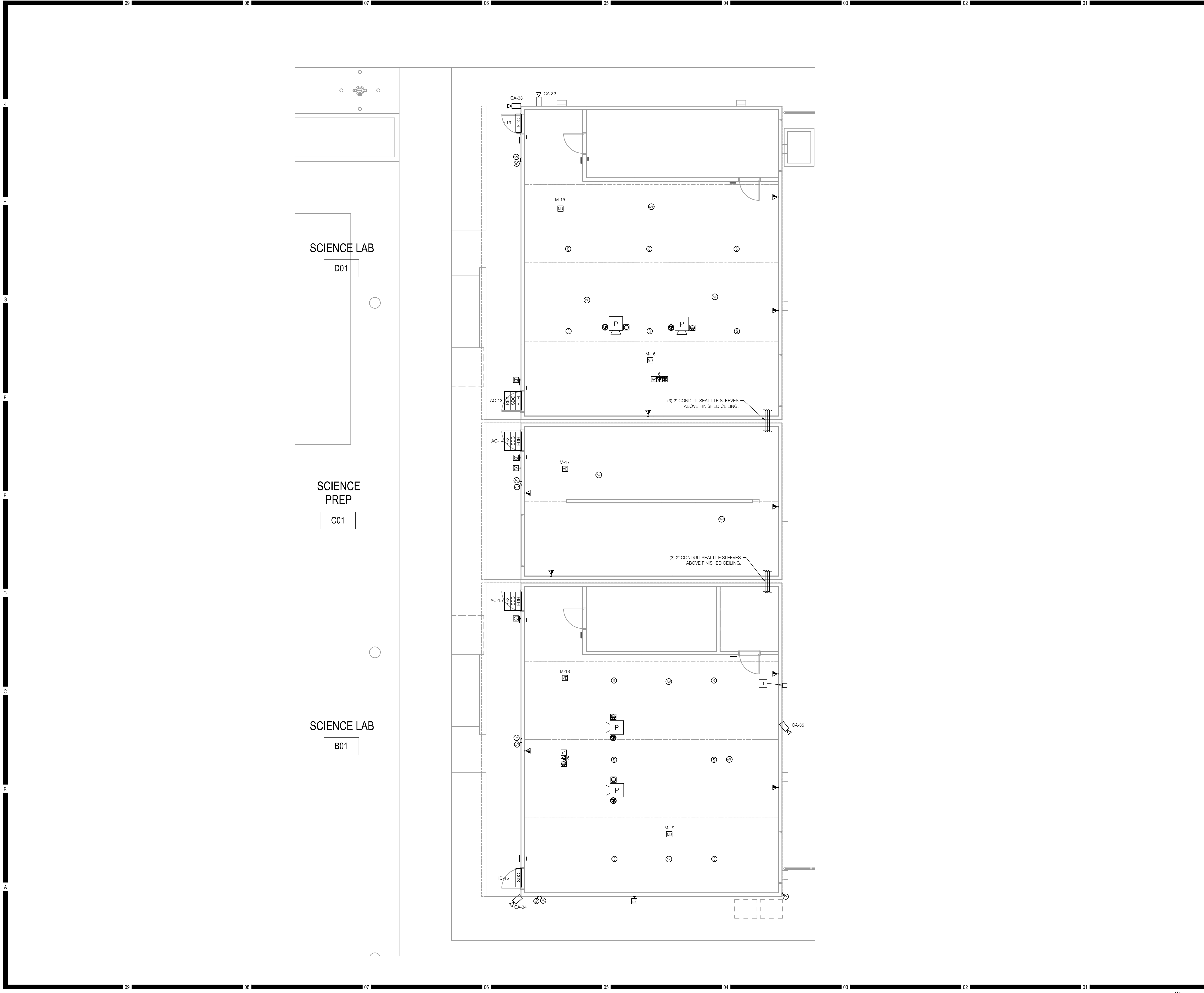
Consultant Seal	Agency Approval	FILE NO. 37-C1
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	APPL. 04-116582	
	ACS. FLS. SSS.	
	DATE	

Project Title	Palomar North Education Center - Interim Village
	Palomar College
	35090 Horse Ranch Creek Road Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
Interim Village Site Plan

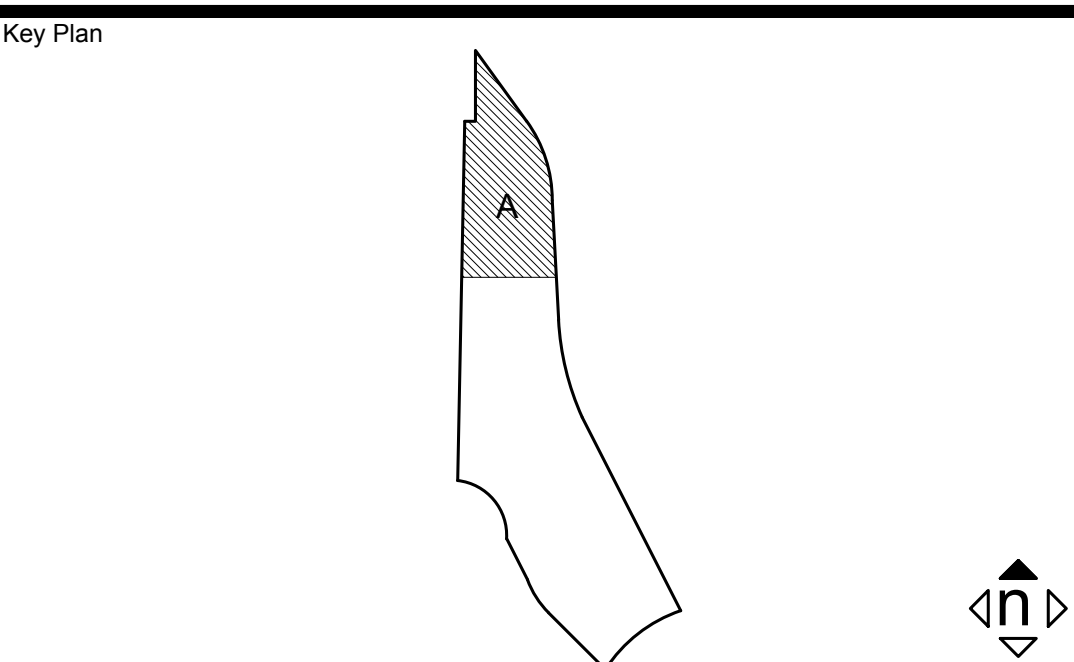
Architect's Seal	Designed: ER	Project No. 5015019-102
	Drawn: JQ	Scale: 1" = 10'-0"
	QA/QC: ER	Drawing No. T1.01
	Date: 10/13/2017	



KEYNOTES

- 1 WALL MOUNTED PULLBOX TO IDF H01.

NOTES



Consultant Seal	Agency Approval FILE NO. 37-C1 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACS.____ FLS.____ SSS.____ DATE _____
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Project Title
Palomar College
Palomar North Education Center - Interim Village
35000 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

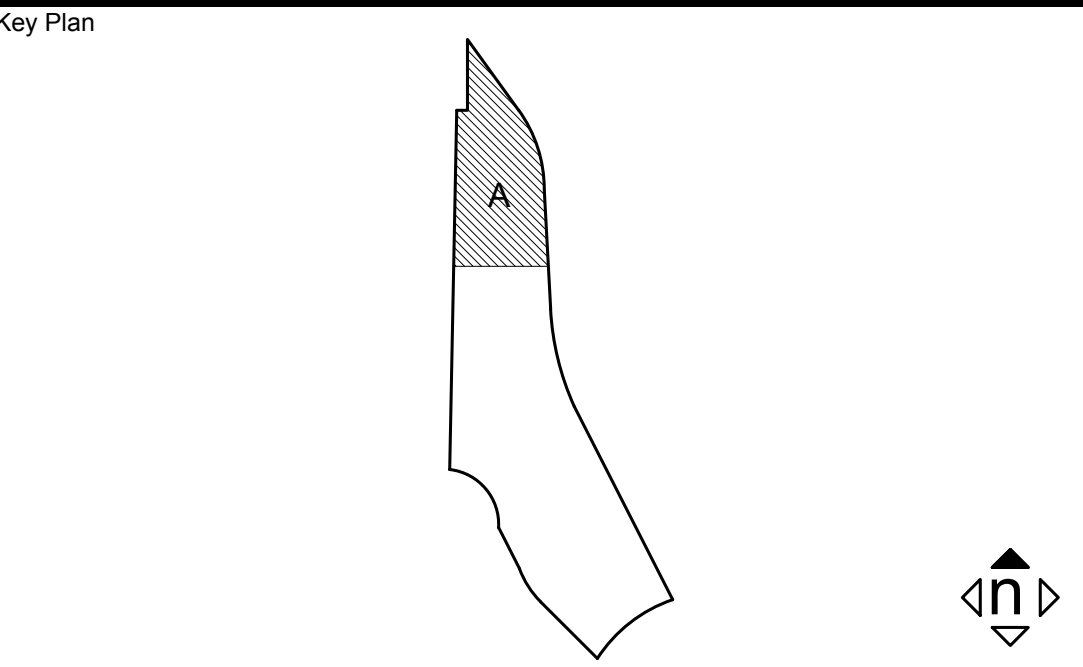
Drawing Title:
Floor Plan

Architect's Seal 	Designed: ER Drawn: JQ QA/QC: ER Date: 10/13/2017	Project No. 5015019-102 Scale: 3/16" = 1'-0" Drawing No. T2.01
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KEYNOTES

NOTES

1. IDF ROOM H01 IS SHOWN FOR REFERENCE ONLY. IT IS PART OF PHASE III.




Consultant Seal	Agency Approval FILE NO. 37-C1 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACS____ FLS____ SSS____ DATE _____
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Project Title	Palomar North Education Center - Interim Village
	Palomar College
	35000 Horse Ranch Creek Road Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

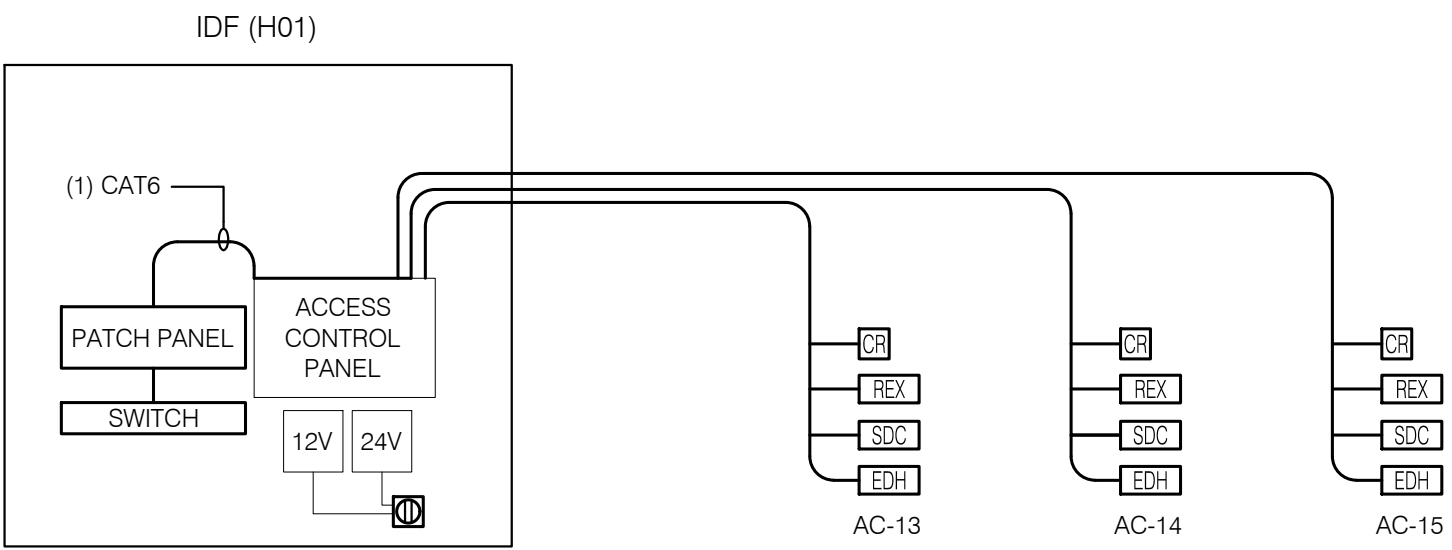
Drawing Title:
Single Line Diagram

Architect's Seal 	Designed: ER Drawn: JQ QA/QC: ER Date: 10/13/2017	Project No. 5015019-102 Scale: Not To Scale Drawing No. T4.01
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CABLING LEGEND

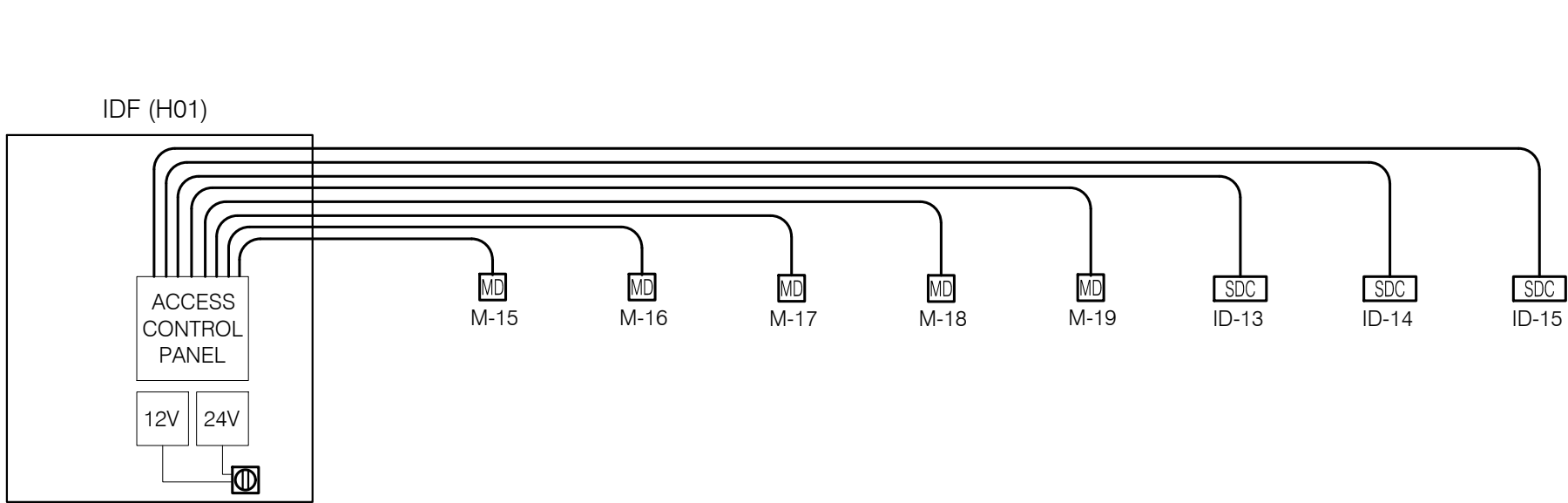
REX	18 AWG / 2
SSM	22 AWG / 2
RRH	18 AWG / 4
SD	22 AWG / 6
M	18 AWG / 4

ACCESS CONTROL SCHEDULE							
READER #	REF. SHEET #	ROOM# - LOCATION	READER TYPE	LOCK TYPE	DOOR SWITCH	REX	NOTES
AC-13	T2.01	D01 - SCIENCE LAB	Schlage MT15	Per Div. 8	Interlogix, per Door Type	Schlage Scan II or Integral to Panic Hardware	
AC-14	T2.01	C01 - SCIENCE PREP	Schlage MT15	Per Div. 8	Interlogix, per Door Type	Schlage Scan II or Integral to Panic Hardware	
AC-15	T2.01	B01 - SCIENCE LAB	Schlage MT15	Per Div. 8	Interlogix, per Door Type	Schlage Scan II or Integral to Panic Hardware	



2 ACCESS CONTROL SYSTEM SINGLE LINE DIAGRAM

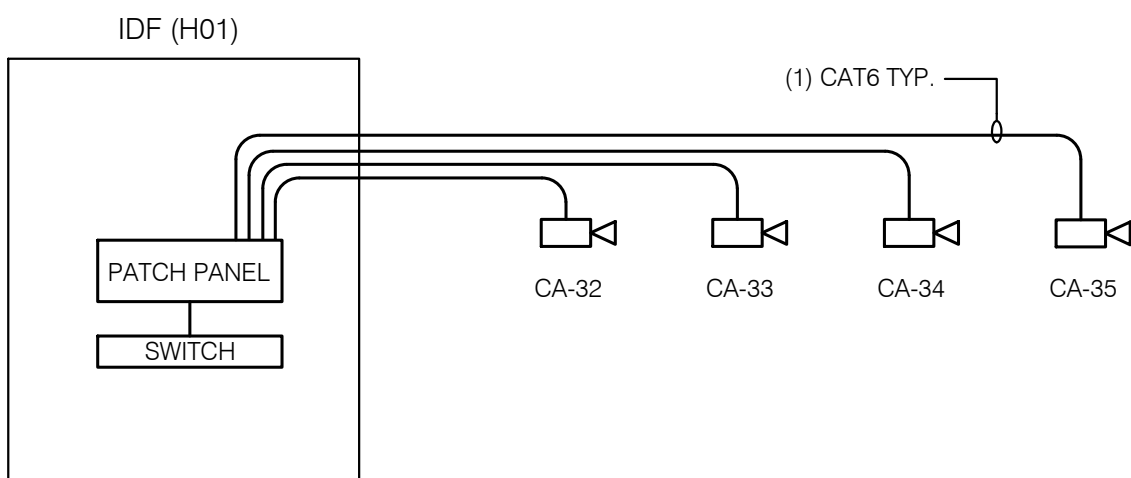
NO SCALE



INTRUSION DETECTION SYSTEM SINGLE LINE DIAGRAM

2 DIAGRAM

NO SCALE



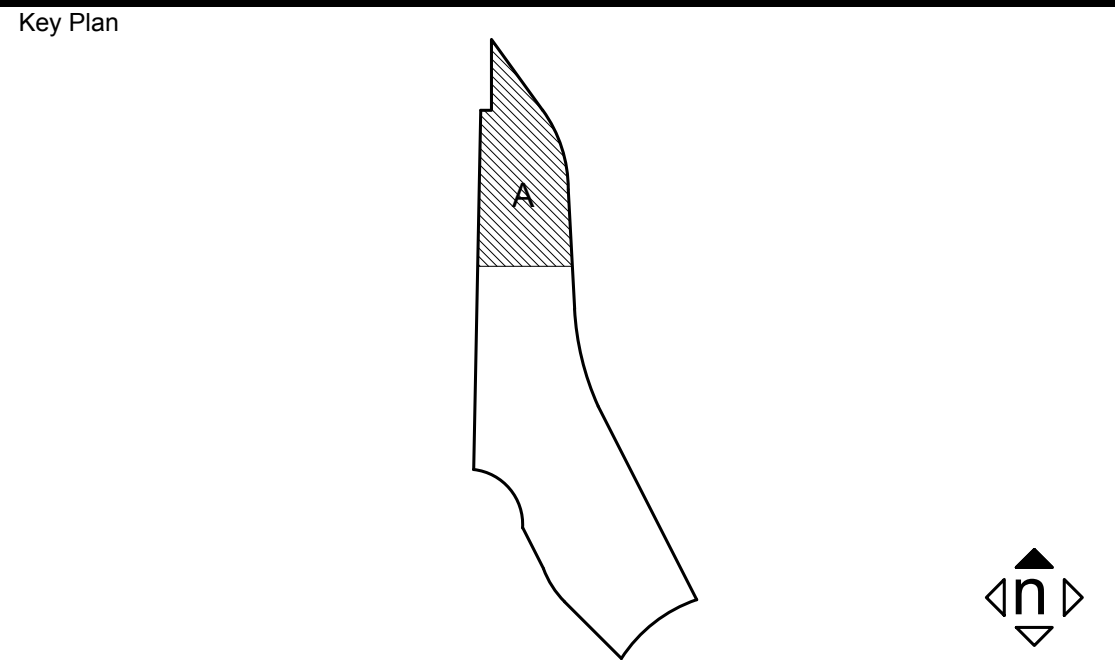
1 CAMERA SYSTEM SINGLE LINE DIAGRAM

NO SCALE

CAMERA SCHEDULE									
CAMERA #	REF. SHEET #	PART #	RESOLUTION	MOUNT/HOUSING (WALL/CEILING/PEDESTAL)	FOV	FPS	POWER	MOUNT HEIGHT (FT)	NOTES
CA-32	T2.01	Panasonic WV-S2531LN	1080p	W	2.8 - 10MM	12	POE	10	
CA-33	T2.01	Panasonic WV-S2531LN	1080p	W	2.8 - 10MM	12	POE	10	
CA-34	T2.01	Panasonic WV-S2531LN	1080p	W	2.8 - 10MM	12	POE	10	
CA-35	T2.01	Panasonic WV-S2531LN	1080p	W	2.8 - 10MM	12	POE	10	

KEYNOTES

NOTES



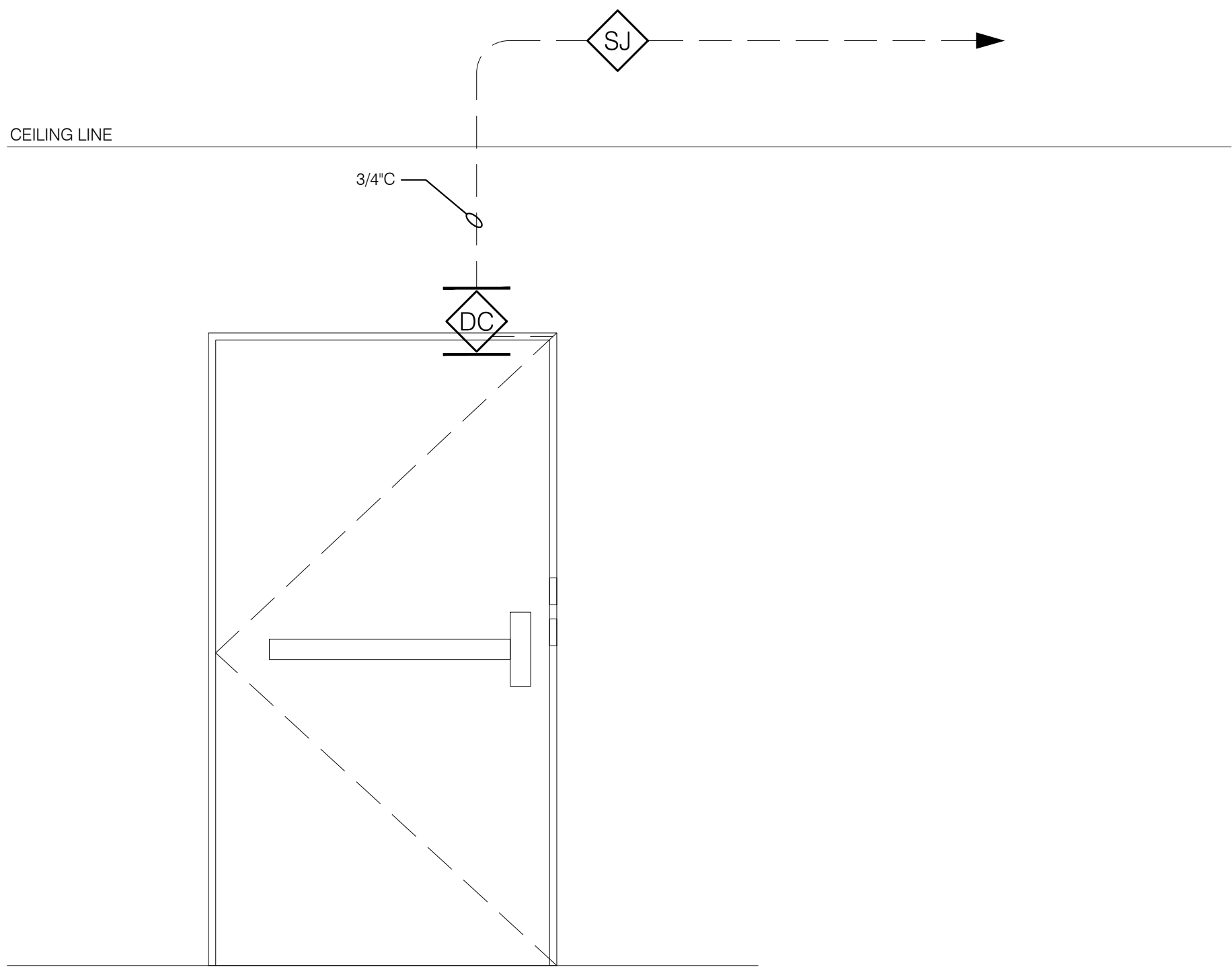
Consultant Seal	Agency Approval FILE NO. 37-C1 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 04-116582 ACS____ FLS____ SSS____ DATE _____
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Project Title	Palomar North Education Center - Interim Village
Palomar College Learning for Service	Palomar College 35000 Horse Ranch Creek Road Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

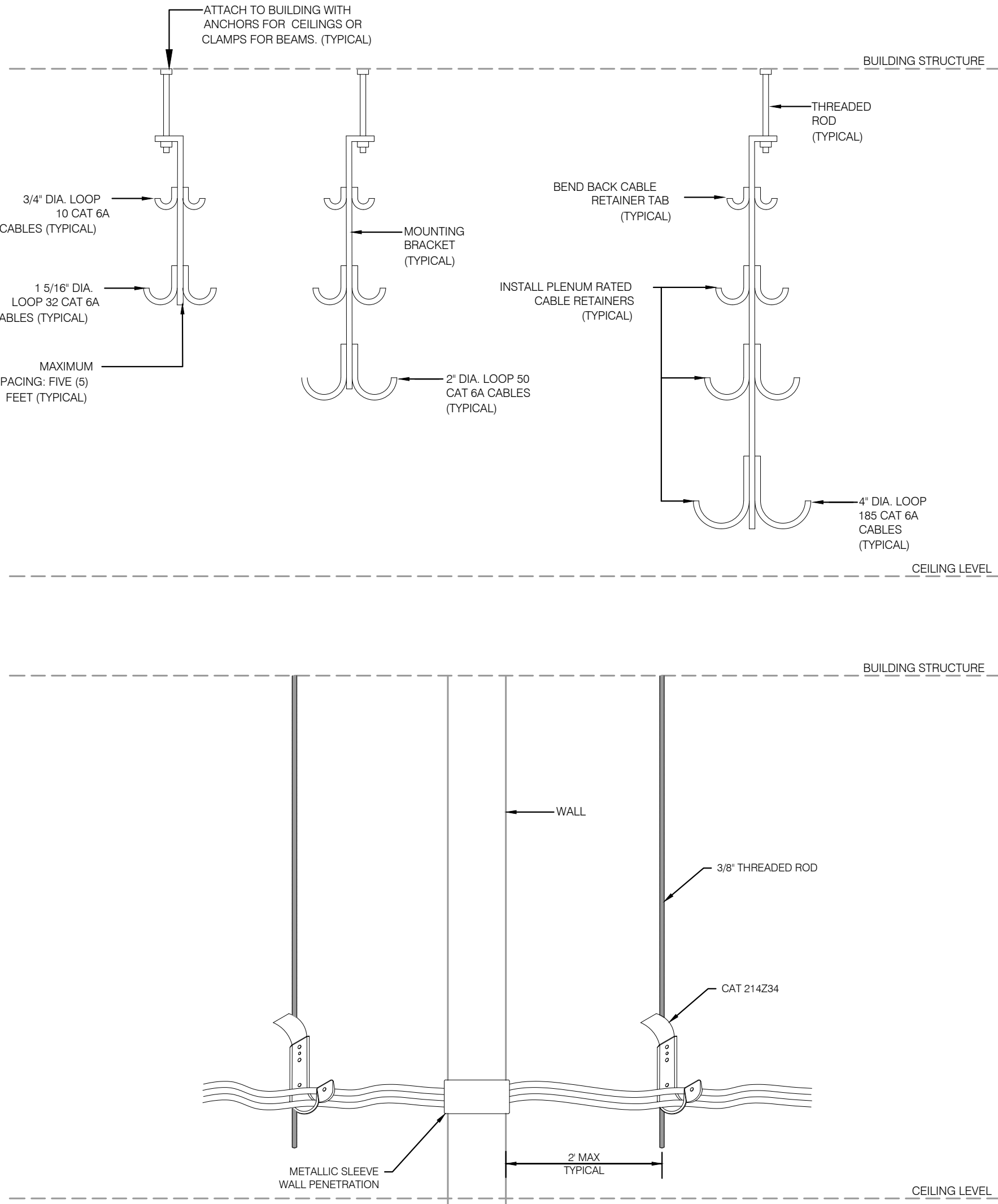
Drawing Title:
Details

Architect's Seal 	Designed: ER Drawn: JQ QAQC: ER Date: 10/13/2017	Project No. 5015019-102 Scale: Not To Scale Drawing No. T5.01
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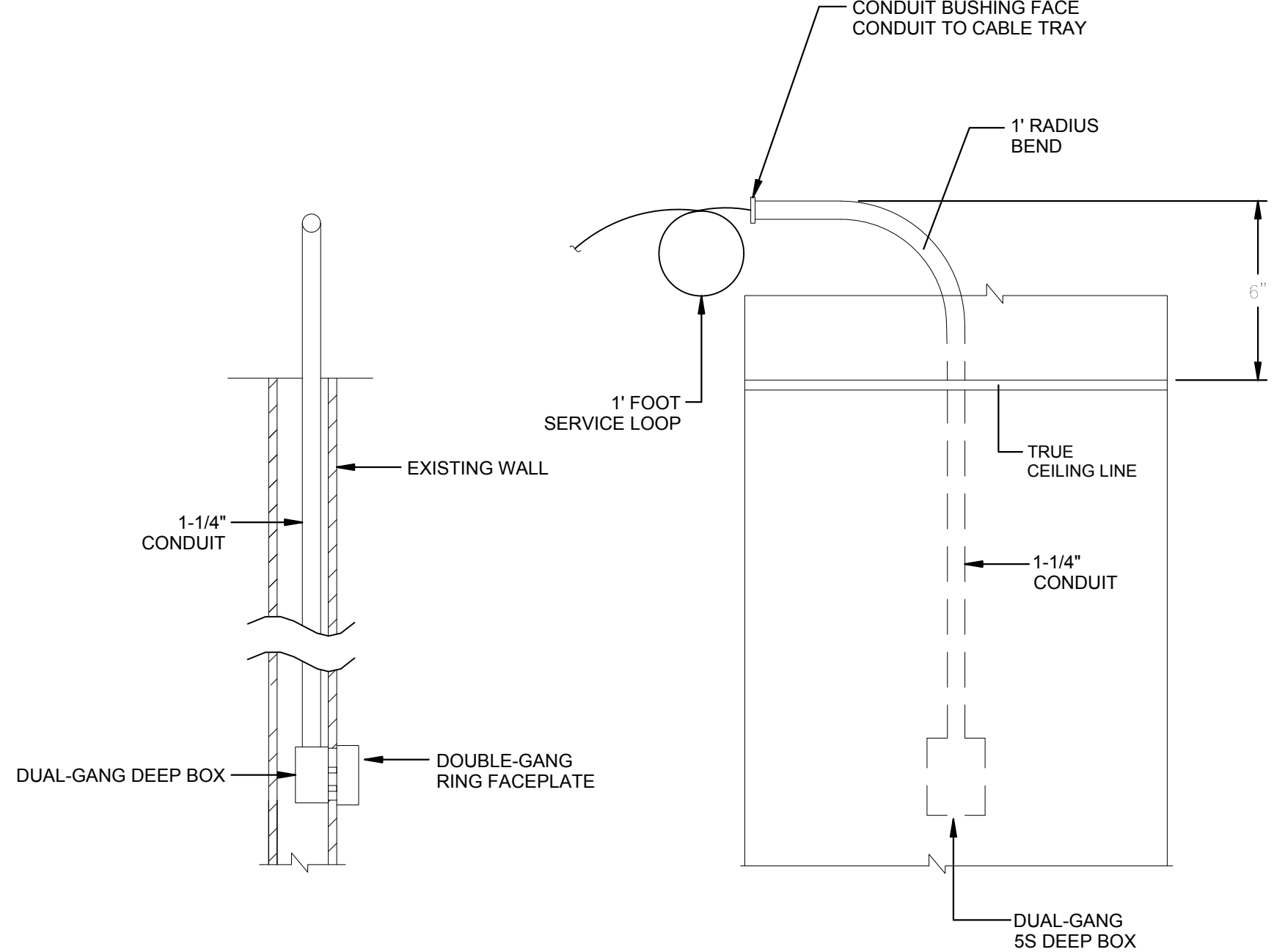


- LEGEND**
- | SYMBOL | DESCRIPTION |
|--------|-----------------------------------|
| | DOOR CONTACT. |
| | SECURITY JUNCTION BOX 4-11/16\"/> |

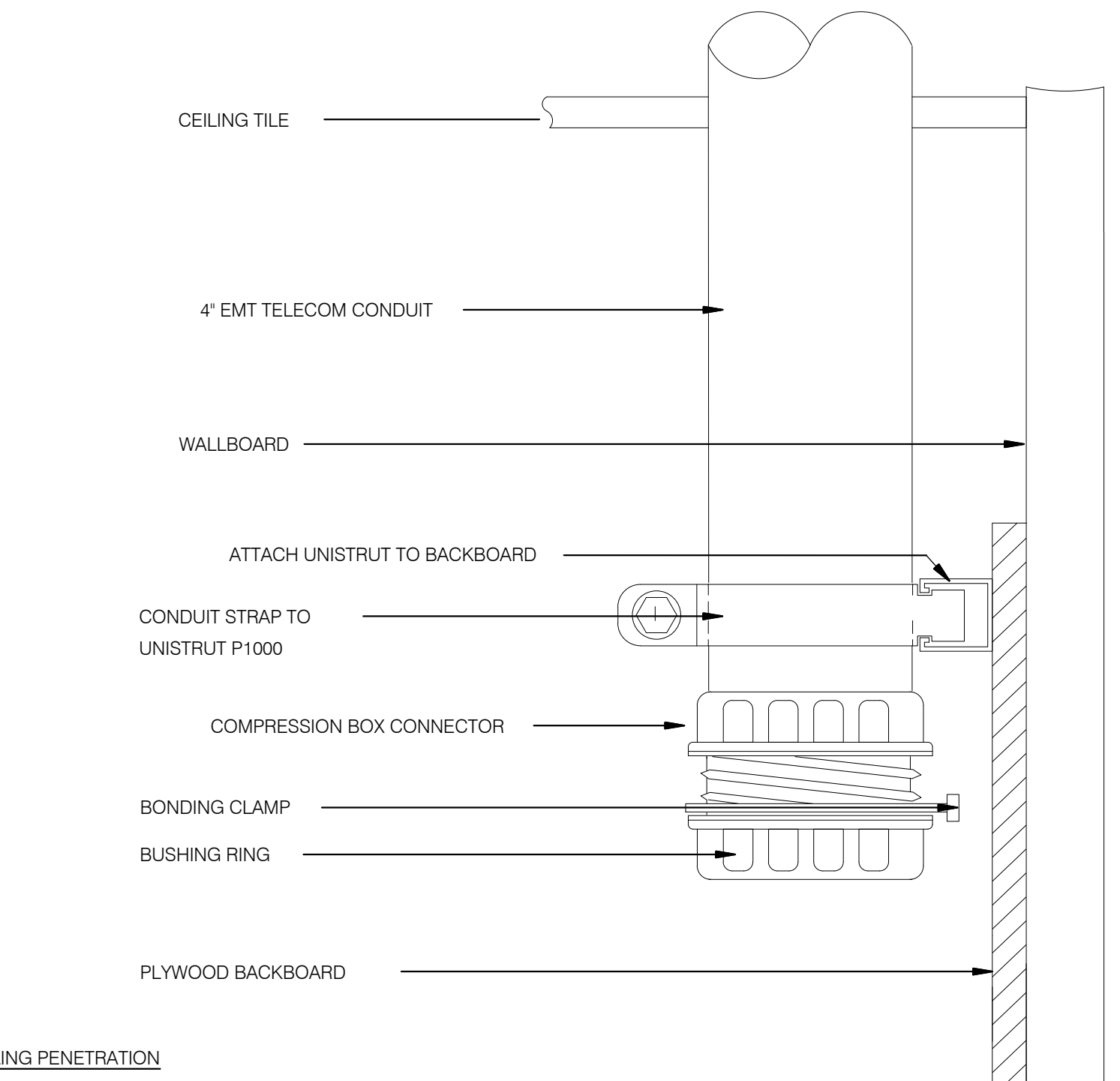
4 SECURITY DOOR INFRASTRUCTURE
NO SCALE



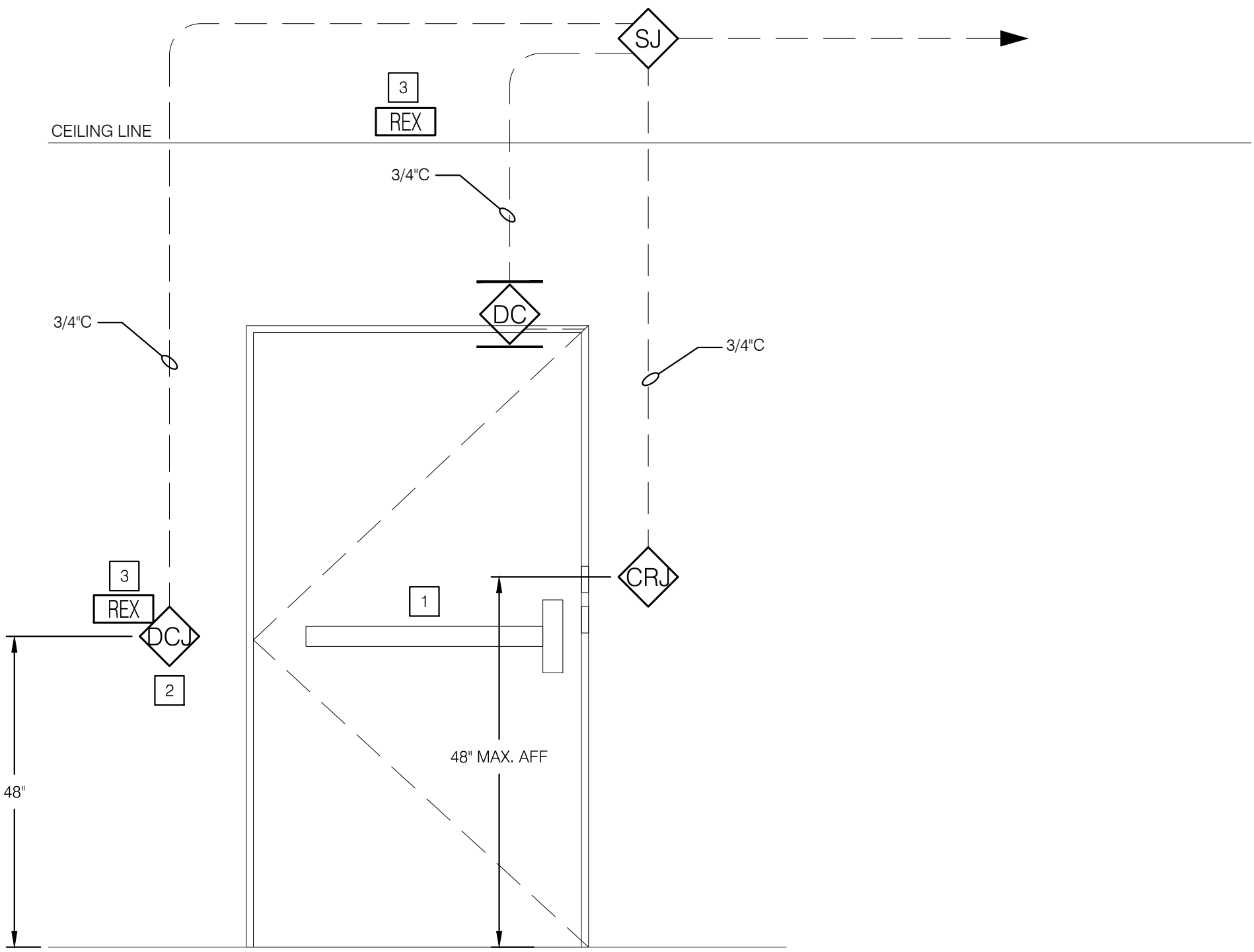
3 TYPICAL J-HOOK INSTALLATION
NO SCALE



2 TYPICAL OUTLET CONCEALED CONDUIT
NO SCALE



1 CONDUIT STUBBED THROUGH CEILING
NO SCALE

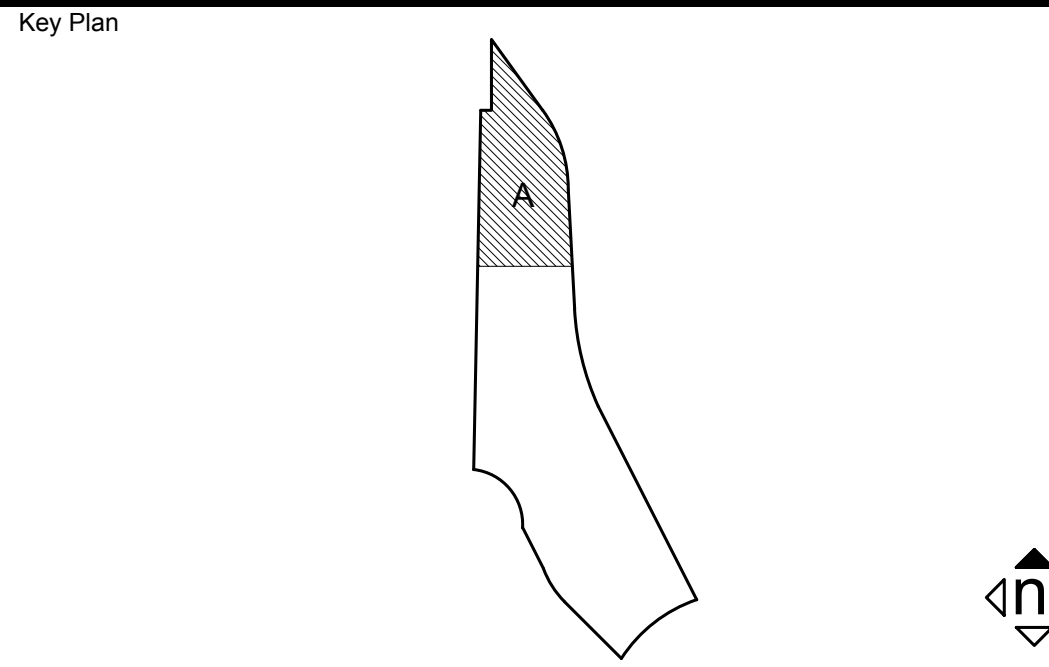


- LEGEND**
- | SYMBOL | DESCRIPTION |
|--------|-----------------------------------|
| | DOOR CONTACT. |
| | 4\"/> |
| | SECURITY JUNCTION BOX 4-11/16\"/> |
| | CARD READER JUNCTION BOX 4\"/> |
- NOTES**
- REQUEST TO EXIT IN DOOR HARDWARE.
 - DOOR CORD JUNCTION BOX LOCATED INTERIOR BUILDING.
 - ALL ACCESS DOORS EITHER HAVE INTEGRAL REX IN PANIC HARDWARE OR EXTERNAL REX. COORDINATE WITH DIVISION 8 CONTRACTOR.


5 SECURITY DOOR INFRASTRUCTURE
NO SCALE

KEYNOTES

NOTES

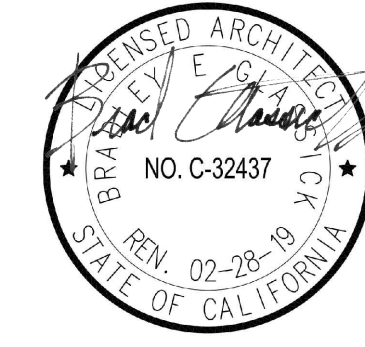


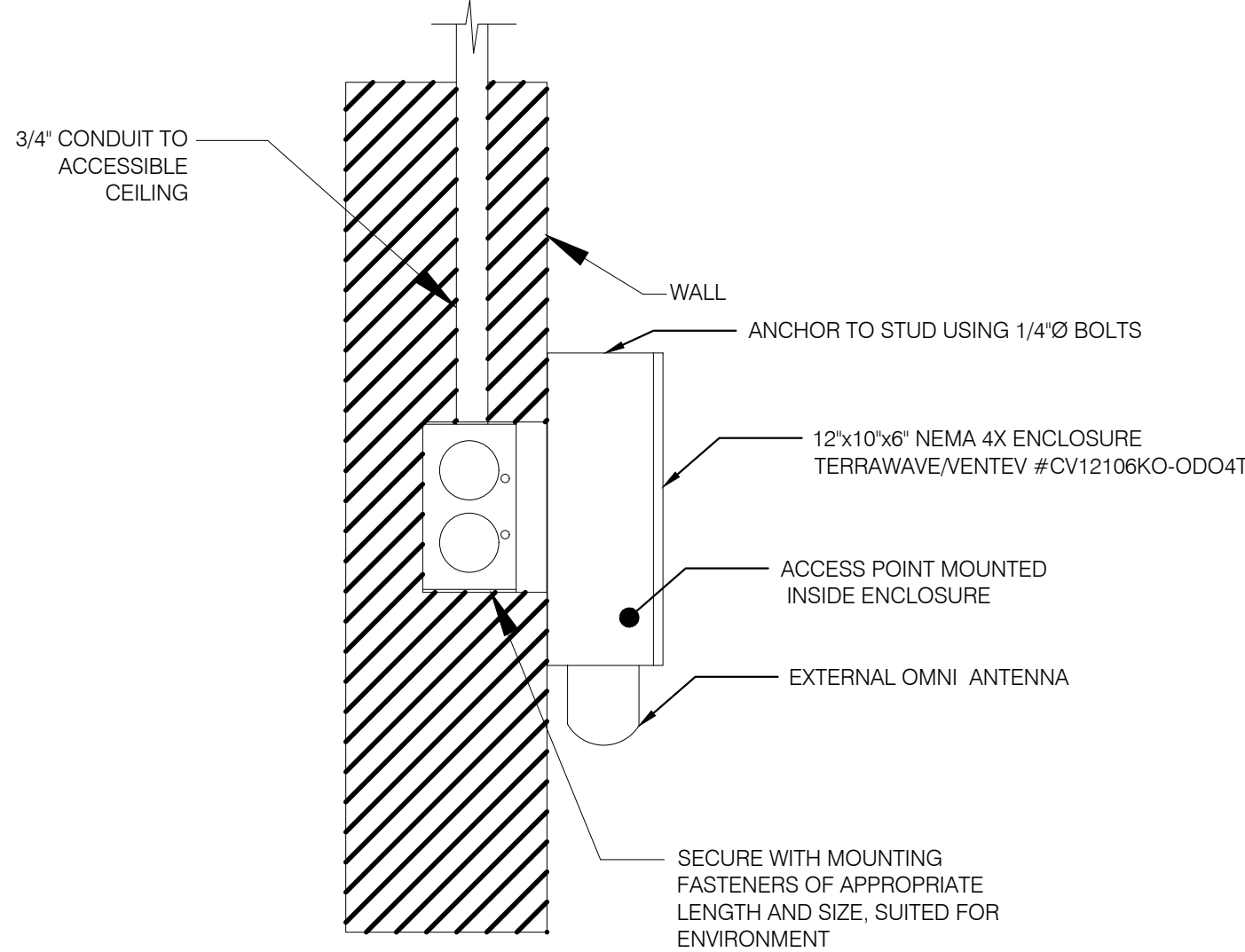
Consultant Seal	Agency Approval	FILE NO. 37-C1
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	APPL. 04-116582	
	ACS. _____ FLS. _____ SSS. _____	
	DATE _____	

Project Title	Palomar North Education Center - Interim Village
	Palomar College
	35000 Horse Ranch Creek Road Fallbrook, CA 92028

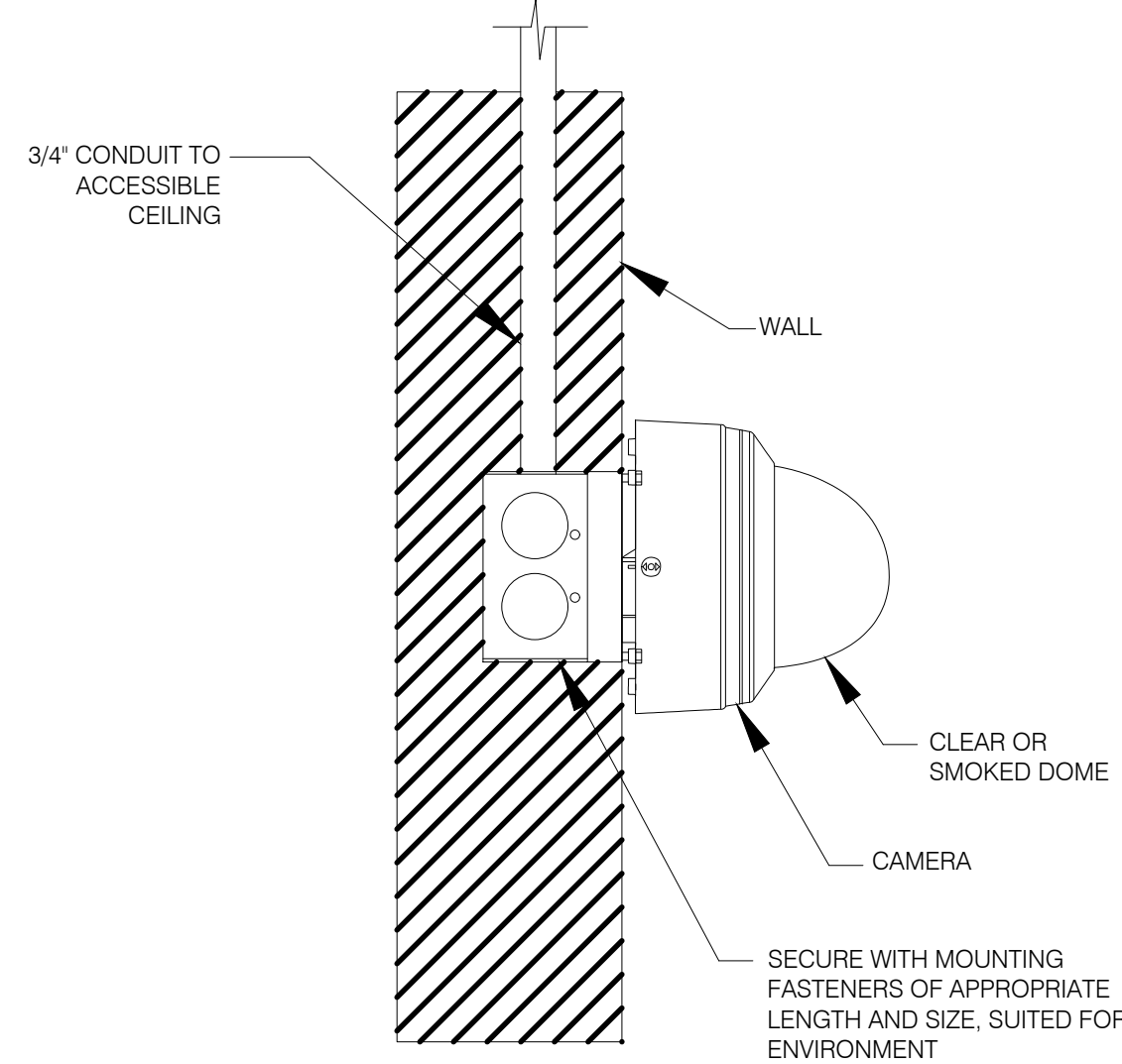
No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
Details

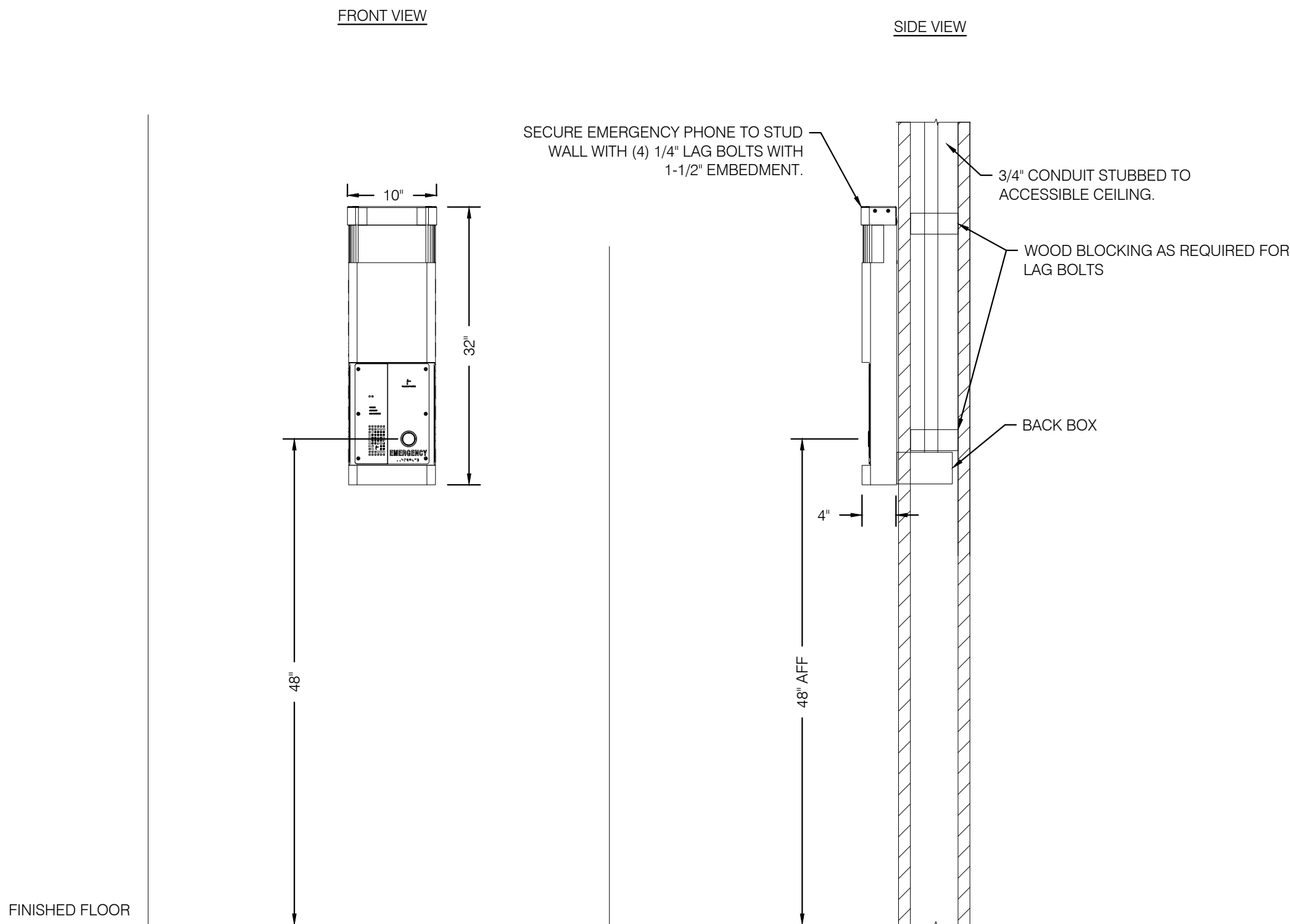
	Designed: ER	Project No. 5015019-102
	Drawn: JQ	Scale: Not To Scale
	QA/QC: ER	Drawing No. T5.02
	Date: 10/13/2017	



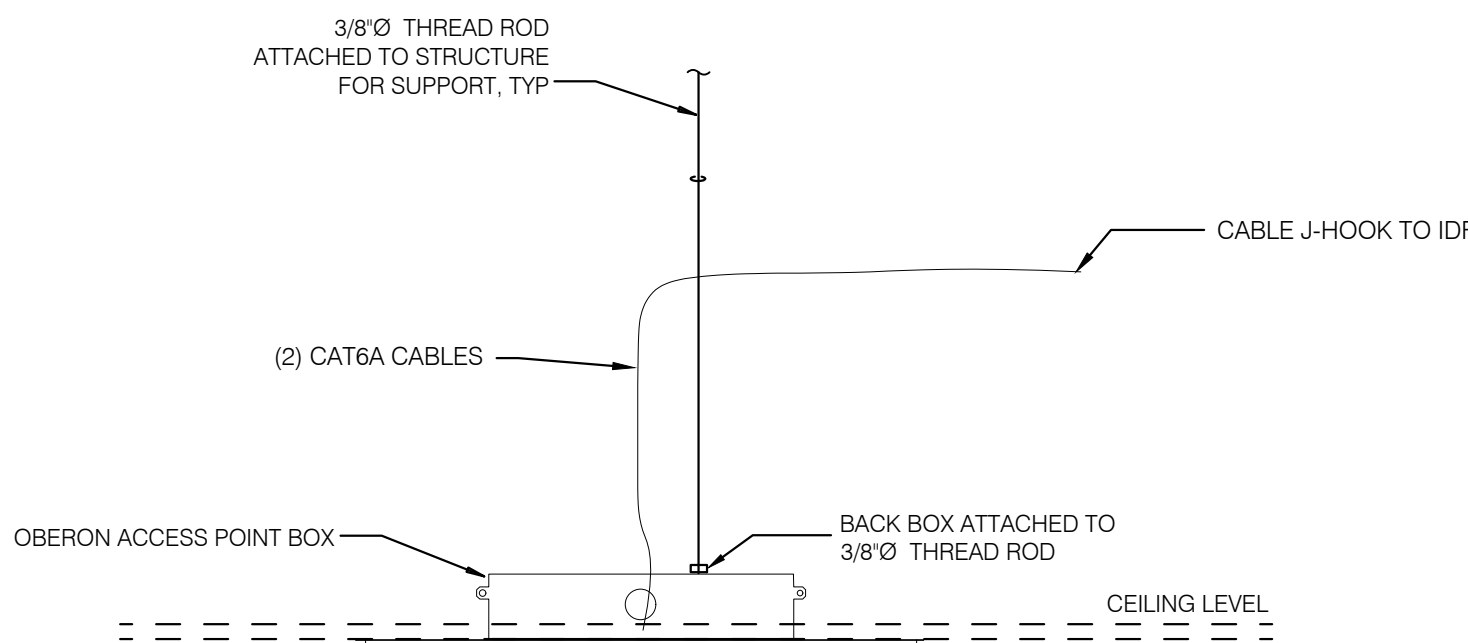
4 EXTERIOR AP WALL MOUNT
NO SCALE



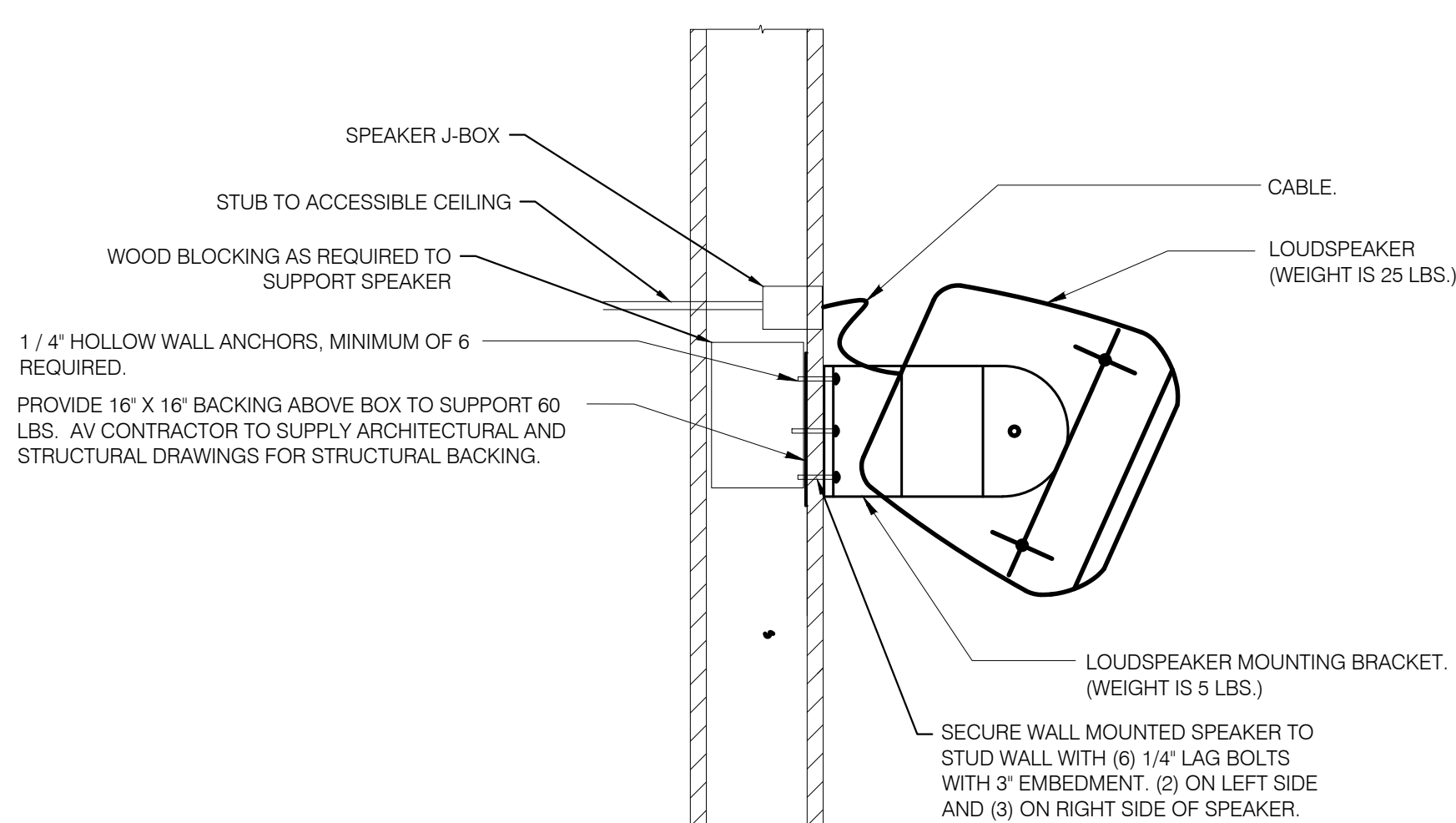
2 WALL MOUNT MINI DOME
NO SCALE



5 WALL MOUNT EMERGENCY PHONE
NO SCALE



3 TYPICAL AP CEILING MOUNT
NO SCALE



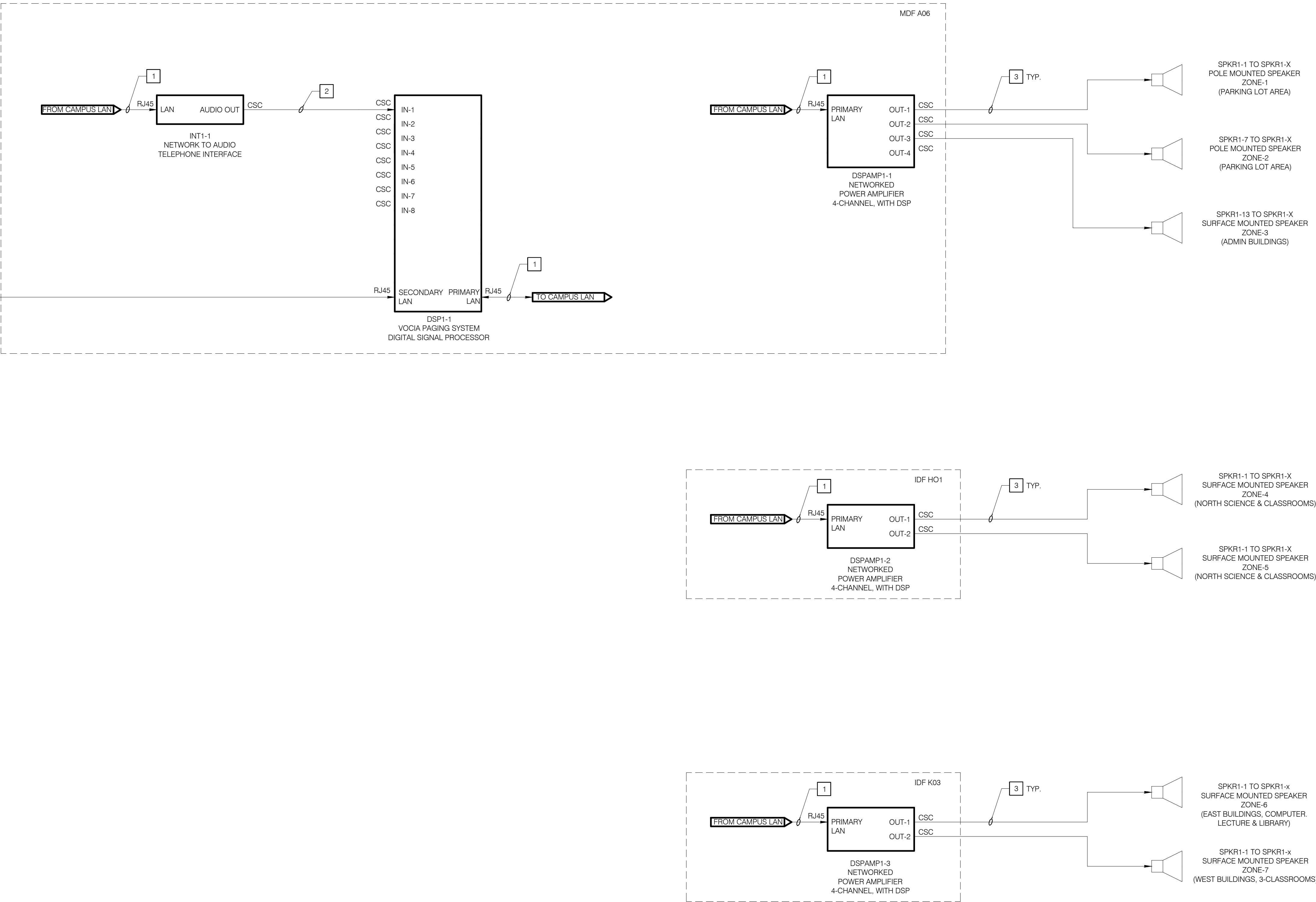
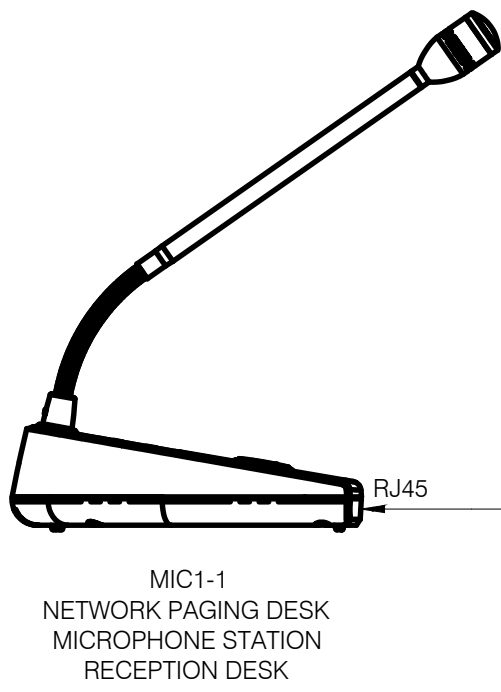
NOTE:
1. FINISH REQUIREMENTS AS SPECIFIED BY ARCHITECT.
2. SPEAKER WEIGHT IS APPROXIMATELY 25 LBS.

1 EMERGENCY SPEAKER, WALL MOUNTED
NO SCALE

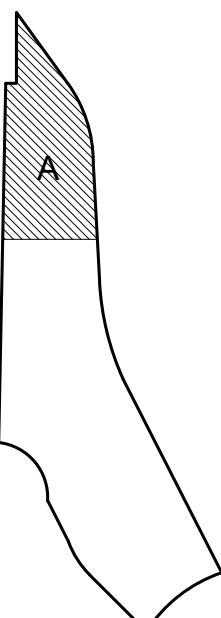
KEYNOTES

- 1 CABLE, CAT-6A.
2 CABLE, AUDIO, 2-22, 22-GAUGE, SHIELDED TWISTED PAIR, PLENUM RATED.
3 CABLE, SPEAKER, 16 AWG, PAIR, NON SHIELDED OSP

NOTES



Key Plan



Consultant Seal

Agency Approval

FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL. 04-116582

ACS____ FLS____ SSS____
DATE _____

Project Title



Palomar North Education Center - Interim Village

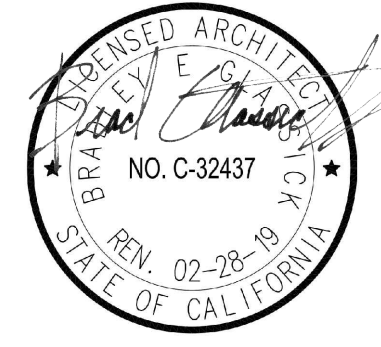
Palomar College

35000 Horse Ranch Creek Road
Fallbrook, CA 92028

No.	Description	Date
1	DSA SUBMITTAL - PHASE IV	10/13/2017

Drawing Title:
**AUDIOVISUAL SYSTEM DIAGRAM
PAGING SYSTEM**

Architect's Seal



Designed:

ST

Project No. 5015019-102

Drawn:

ST

Scale: N.T.S.

QA/QC

ER

Drawn No.

Date: 10/13/2017

TAV4.01

AUDIOVISUAL SYSTEM DIAGRAM, PAGING SYSTEM

1



N.T.S.

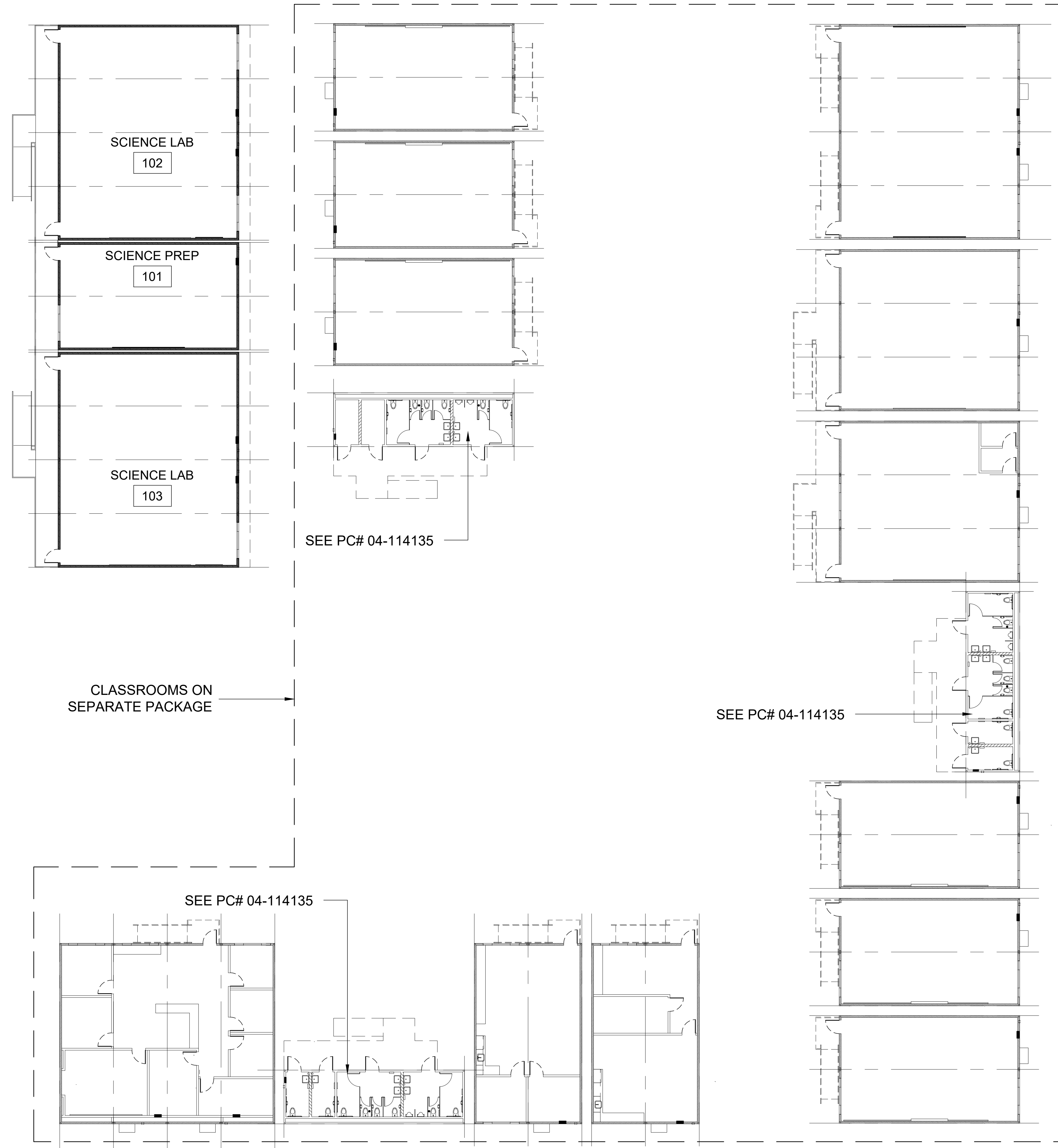
BUILDING SIZE: 24'x40', 36'x40', 48'x40'

PHONE : (951) 943-5393 FAX : (951) 943-2211

PALOMAR COLLEGE SCIENCE BUILDING

[illegible]

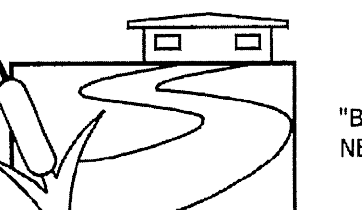
<p>THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK INDUSTRIES, INC. (SCI Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCI Inc.</p> <p>ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCI Inc SHALL BE THE PROPERTY OF SCI Inc</p>															
<h2 style="margin: 0;">SILVER CREEK INDUSTRIES, INC.</h2>															
<div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: right;"> <p>"BUILDING FOR THE NEXT GENERATION"</p> </div> </div> <h1 style="margin: 10px 0;">SILVER CREEK</h1> <p>2830 BARRETT AVE. PERRIS, CALIFORNIA 92571 PHONE: 951-943-5393 FAX: 951-943-2211</p>															
<p>PROJECT NAME:</p> <h2 style="margin: 0;">PALOMAR COLLEGE EDUCATION CTR.</h2> <h2 style="margin: 0;">PALOMAR COLLEGE SCIENCE BUILDING</h2>															
<p>SHEET TITLE:</p> <h1 style="margin: 10px 0;">SCHEDULES</h1>															
<p>ARCHITECT OF RECORD SUBMISSION DATE</p> 															
<p>PROJECT SPECIFIC STATE AGENCY APPROVAL</p>															
<p style="text-align: center;">REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;">1</td><td style="width: 95%;"></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>6</td><td></td></tr> <tr><td>7</td><td></td></tr> </table>		1		2		3		4		5		6		7	
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2															
3															
4															
5															
6															
7															
<p>SILVER CREEK INDUSTRIES</p>															
<p>PROJECT NO:</p>															
<p>DRAWN BY:</p>															
<p>SCALE: AS NOTED</p>															
<p>DATE:</p>															
<p>SHEET NUMBER</p>															
<h1 style="margin: 0;">A-0.2N</h1>															



KEY PLAN

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"BUILDING FOR THE NEXT GENERATION"

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:

KEY PLAN



PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

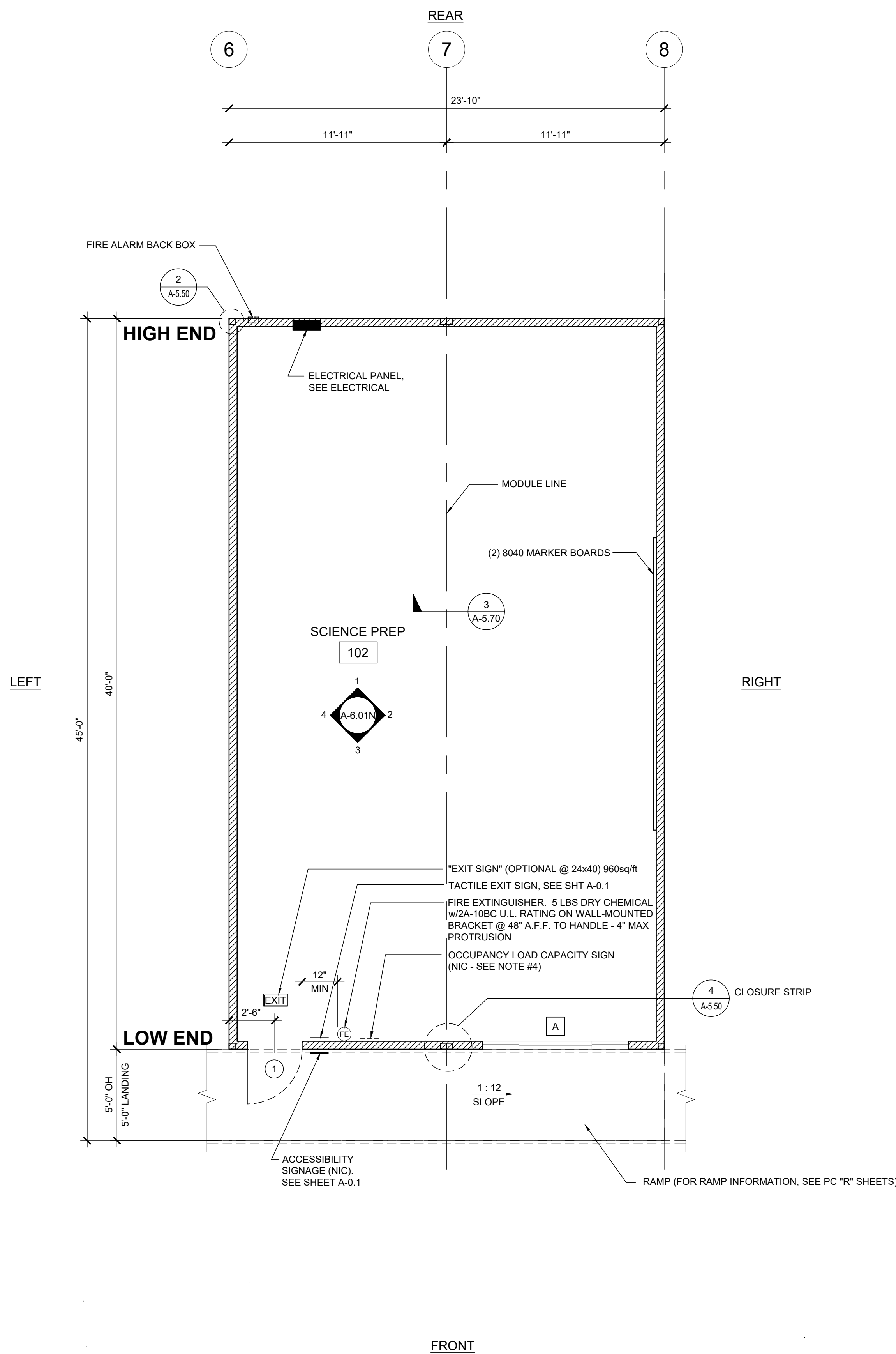
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SILVER CREEK INDUSTRIES

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

A-1.00N



NOTES

SEE PC
SHEET A-1.01

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS (WUJI COMPLIANT DURATEMP)A-5.50	

WALL LEGEND

	NOMINAL 4" WALL STUD ☒
	NOMINAL 6" WALL STUD ☒
	NOMINAL 8" WALL STUD ☐

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SILVER CREEK INDUSTRIES, INC.



2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:

FLOOR PLAN
24' x 40'



PROJECT SPECIFIC STATE AGENCY APPROVAL

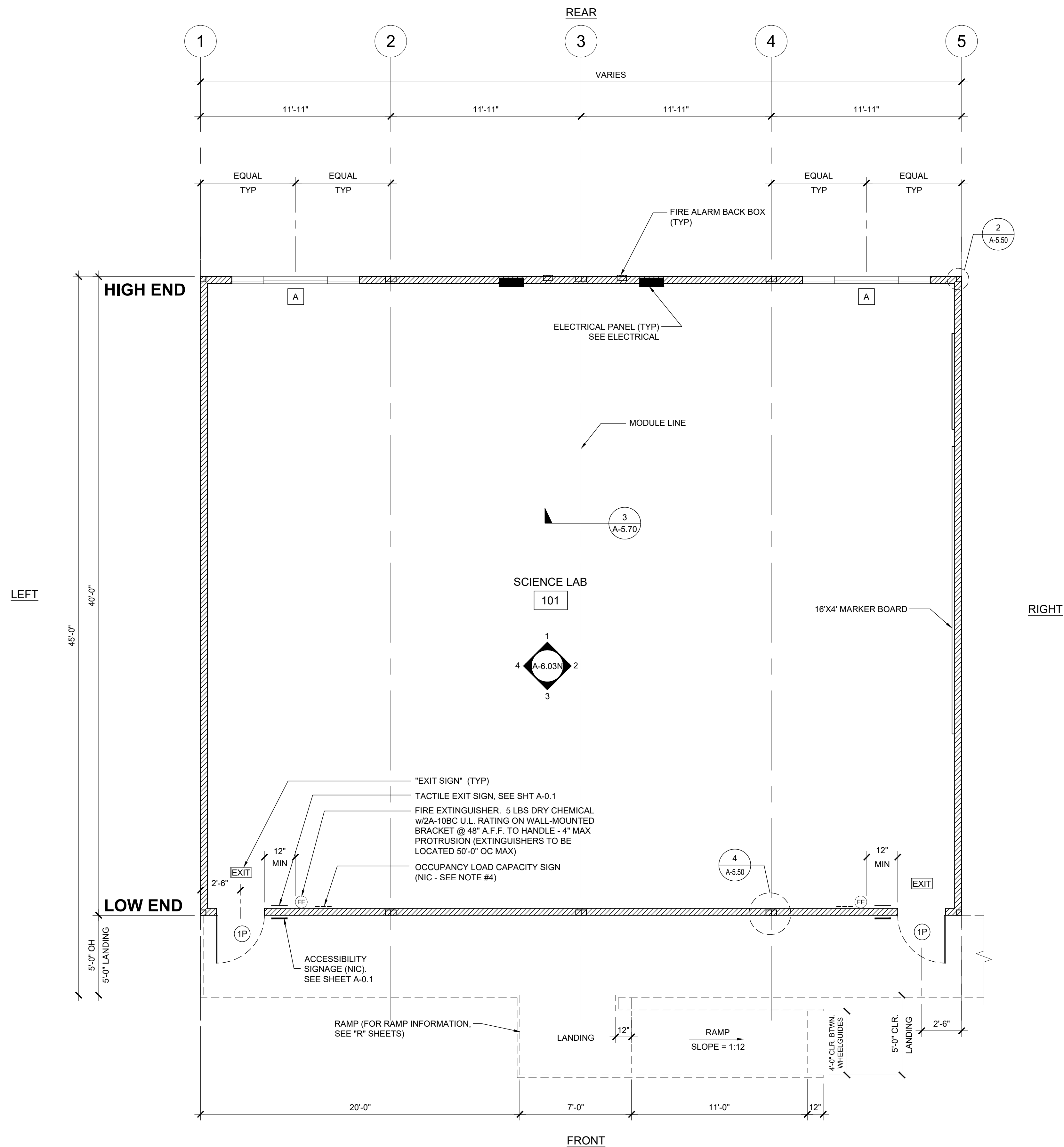
REVISIONS

SILVER CREEK INDUSTRIES

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

A-1.01N



NOTES

SEE PC
SHEET A-1.03

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS(WUI COMPLIANT DURATEMP) A-6.50	

WALL LEGEND

	NOMINAL 4" WALL STUD ☒
	NOMINAL 6" WALL STUD ☒
	NOMINAL 8" WALL STUD ☐

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SILVER CREEK

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
FLOOR PLAN
48' TO 120' x 40'



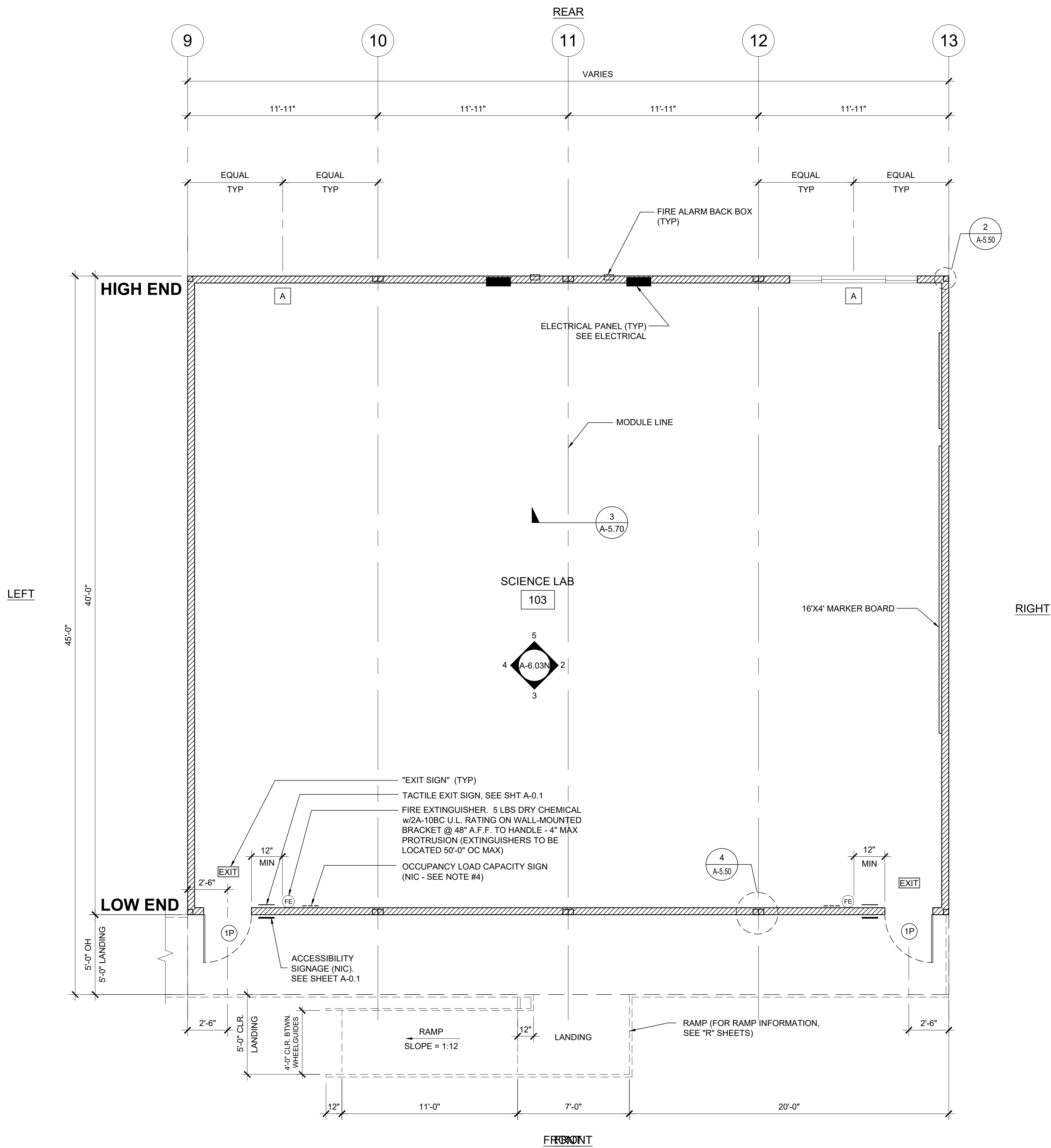
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REVISIONS

SILVER CREEK INDUSTRIES

PROJECT NO. _____
DRAWN BY: _____
SCALE: AS NOTED
DATE: _____

SHEET NUMBER
A-1.03N



NOTES

SEE PC
SHEET A-1.03

DETAIL SCHEDULE

FINISH:	SHEET #:
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WALL LEGEND

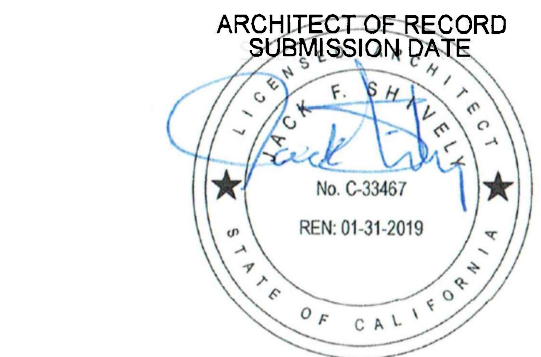
	NOMINAL 4" WALL STUD ☒
	NOMINAL 6" WALL STUD ☒
	NOMINAL 8" WALL STUD ☐

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"BUILDING FOR THE NEXT GENERATION"
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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
FLOOR PLAN
48' TO 120' x 40'



PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

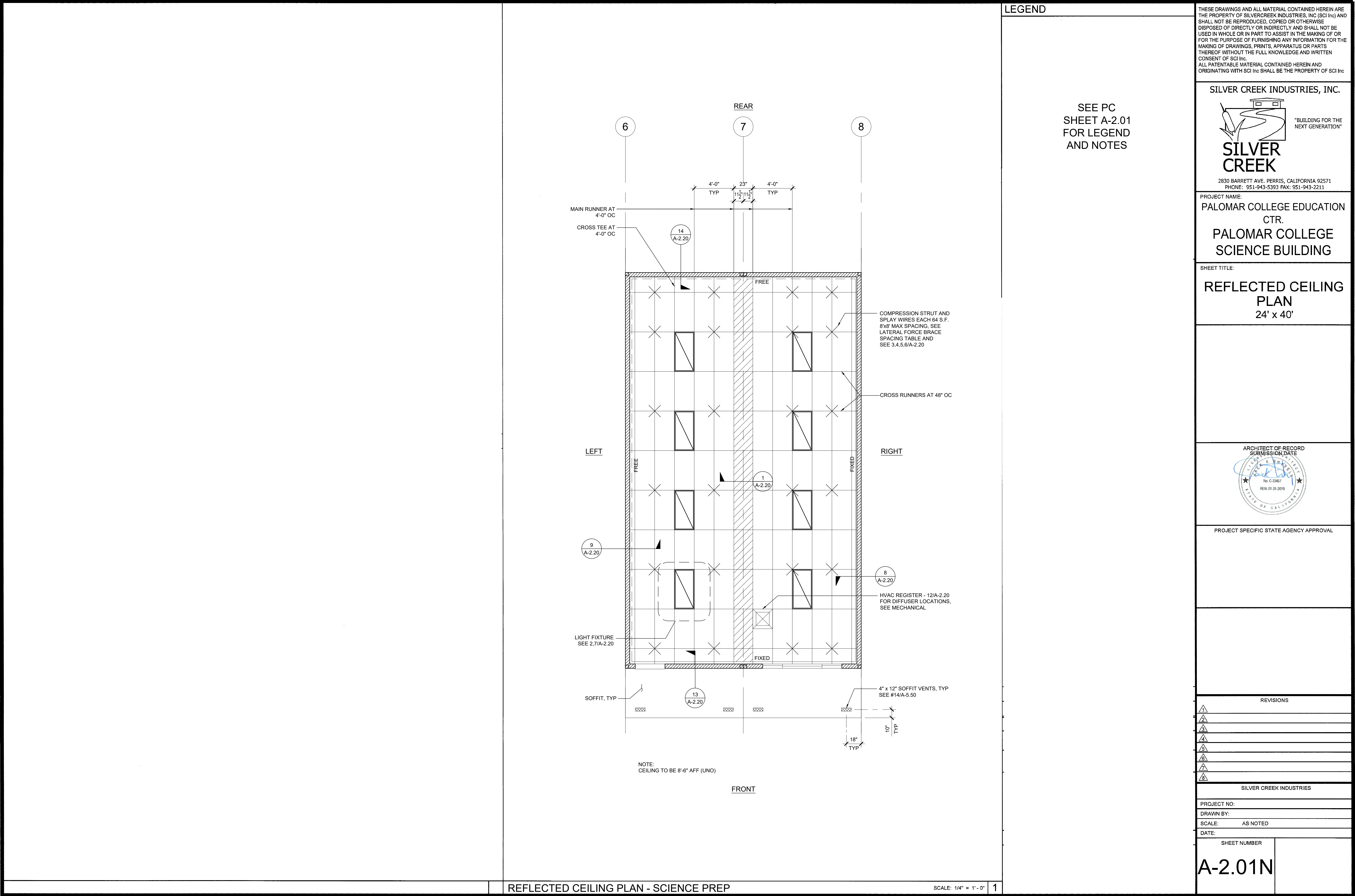
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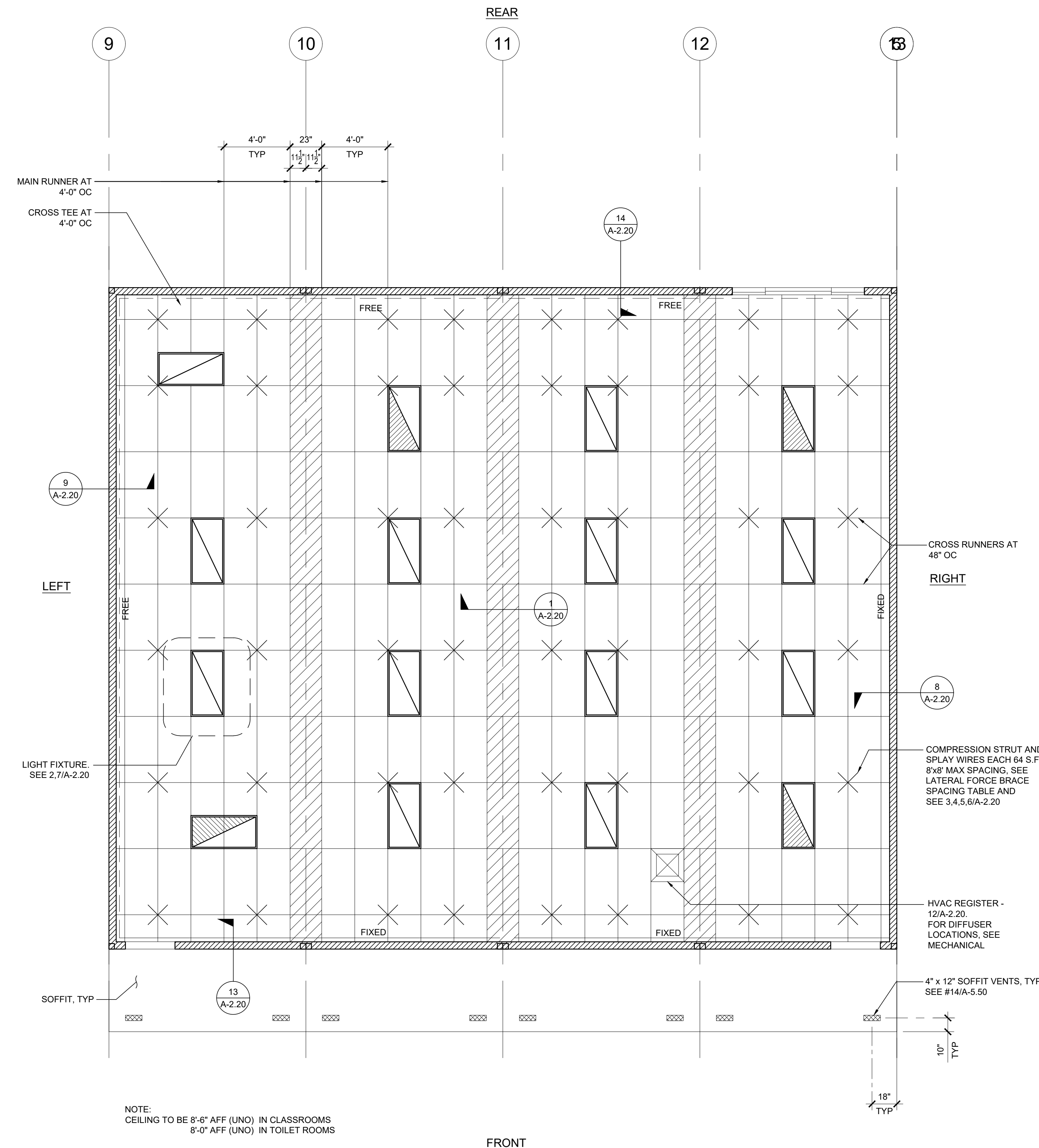
SILVER CREEK INDUSTRIES

PROJECT NO.
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER

A-1.03.1N





LEGEND

SEE PC
SHEET A-2.03
FOR LEGEND
AND NOTES

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"BUILDING FOR THE NEXT GENERATION"

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
REFLECTED CEILING PLAN

ARCHITECT OF RECORD
SUBMISSION DATE

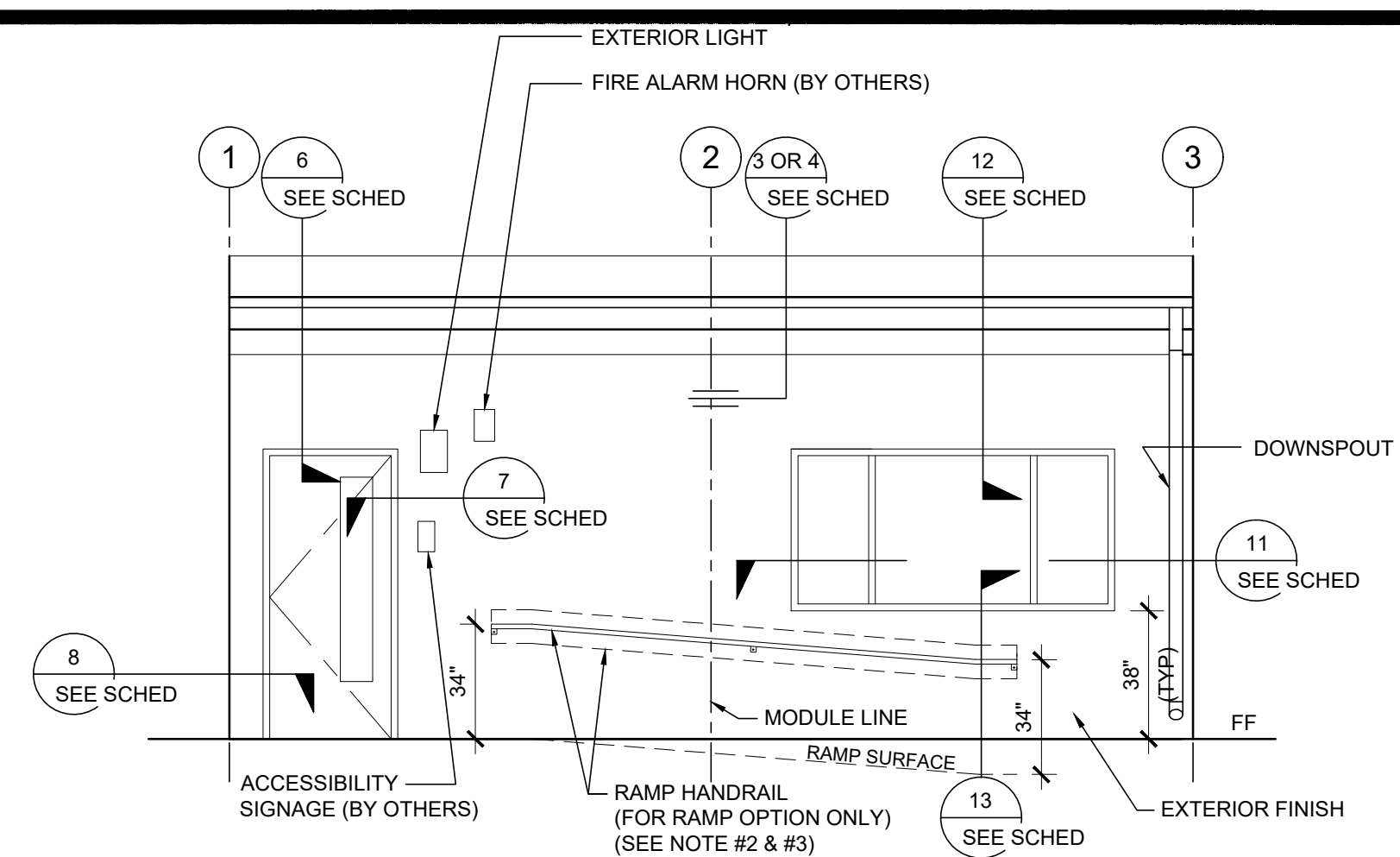
PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

SILVER CREEK INDUSTRIES

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
A-2.03.1N



EXTERIOR ELEVATION

SCALE: 1/4" = 1' - 0"

1

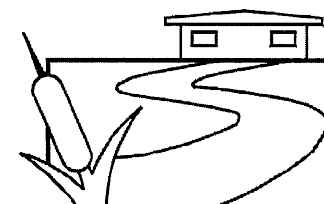
NOTES (EXTERIOR ELEVATION)

SEE PC
SHEET A-4.01

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SILVER
CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

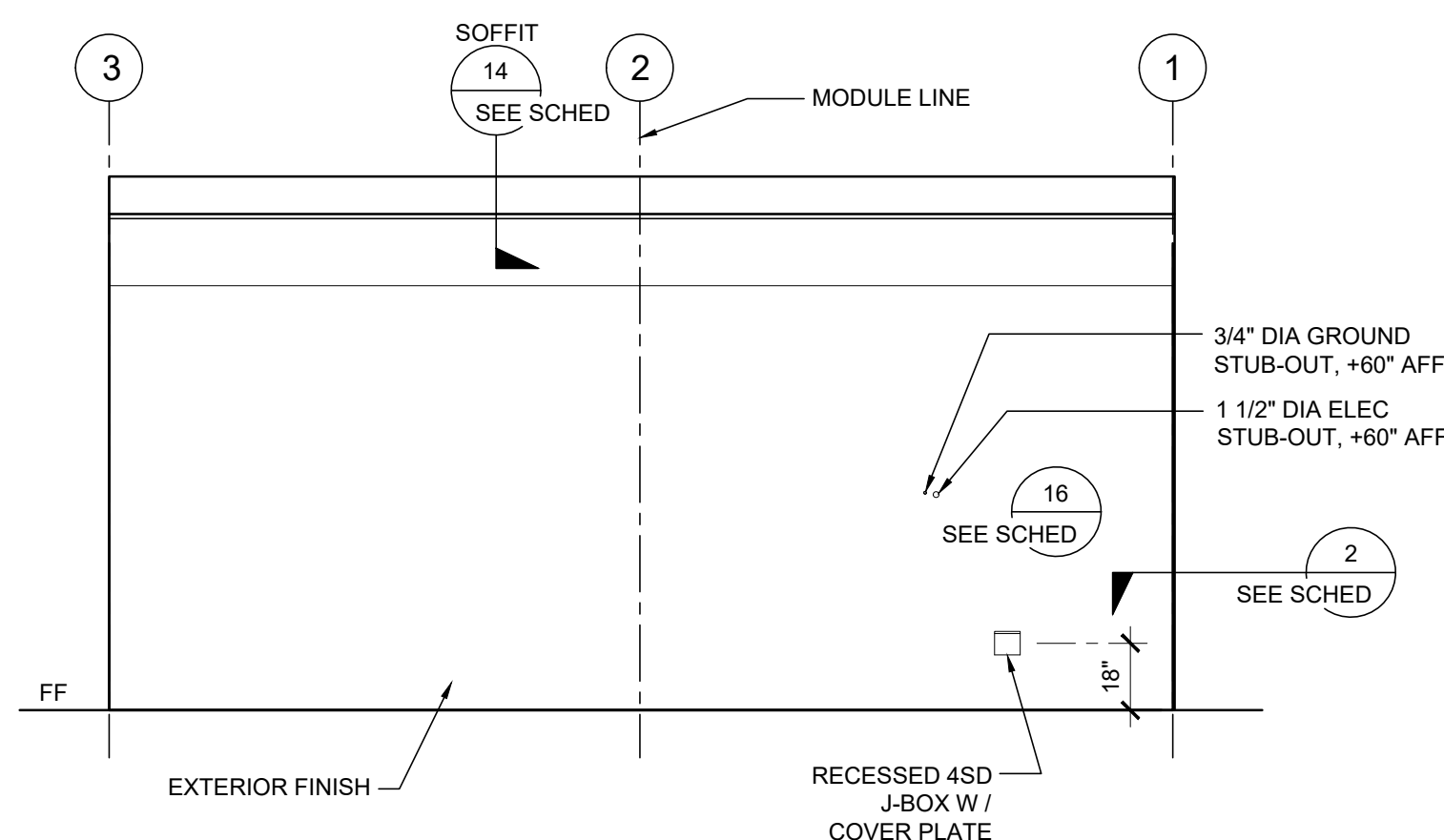
PROJECT NAME:

PALOMAR COLLEGE EDUCATION
CTR.

PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:

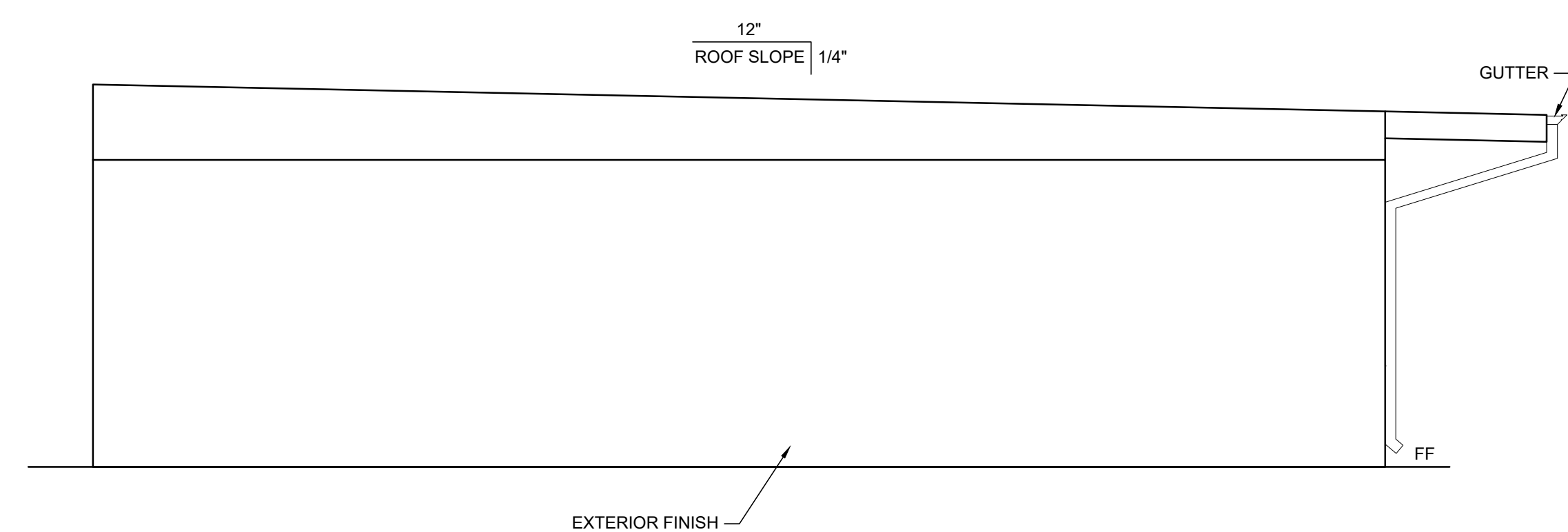
EXTERIOR ELEVATION



EXTERIOR ELEVATION

SCALE: 1/4" = 1' - 0"

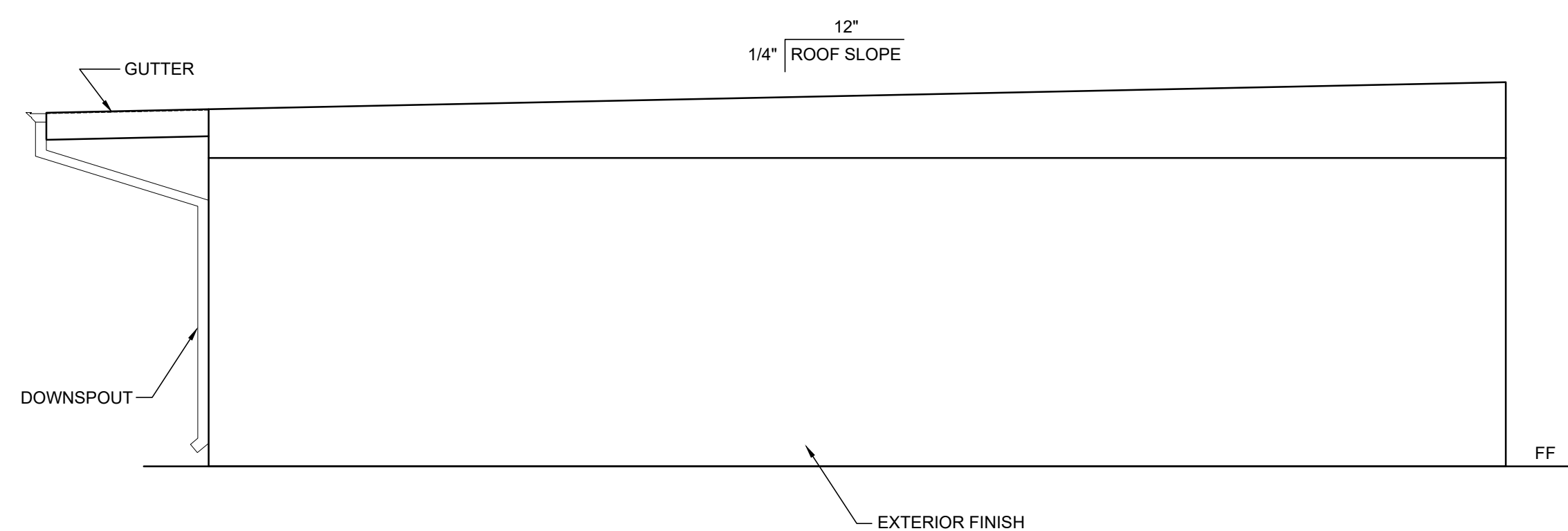
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EXTERIOR ELEVATION

SCALE: 1/4" = 1' - 0"

33



EXTERIOR ELEVATION

SCALE: 1/4" = 1' - 0"

4

REVISIONS



SILVER CREEK INDUSTRIES

PROJECT NO.

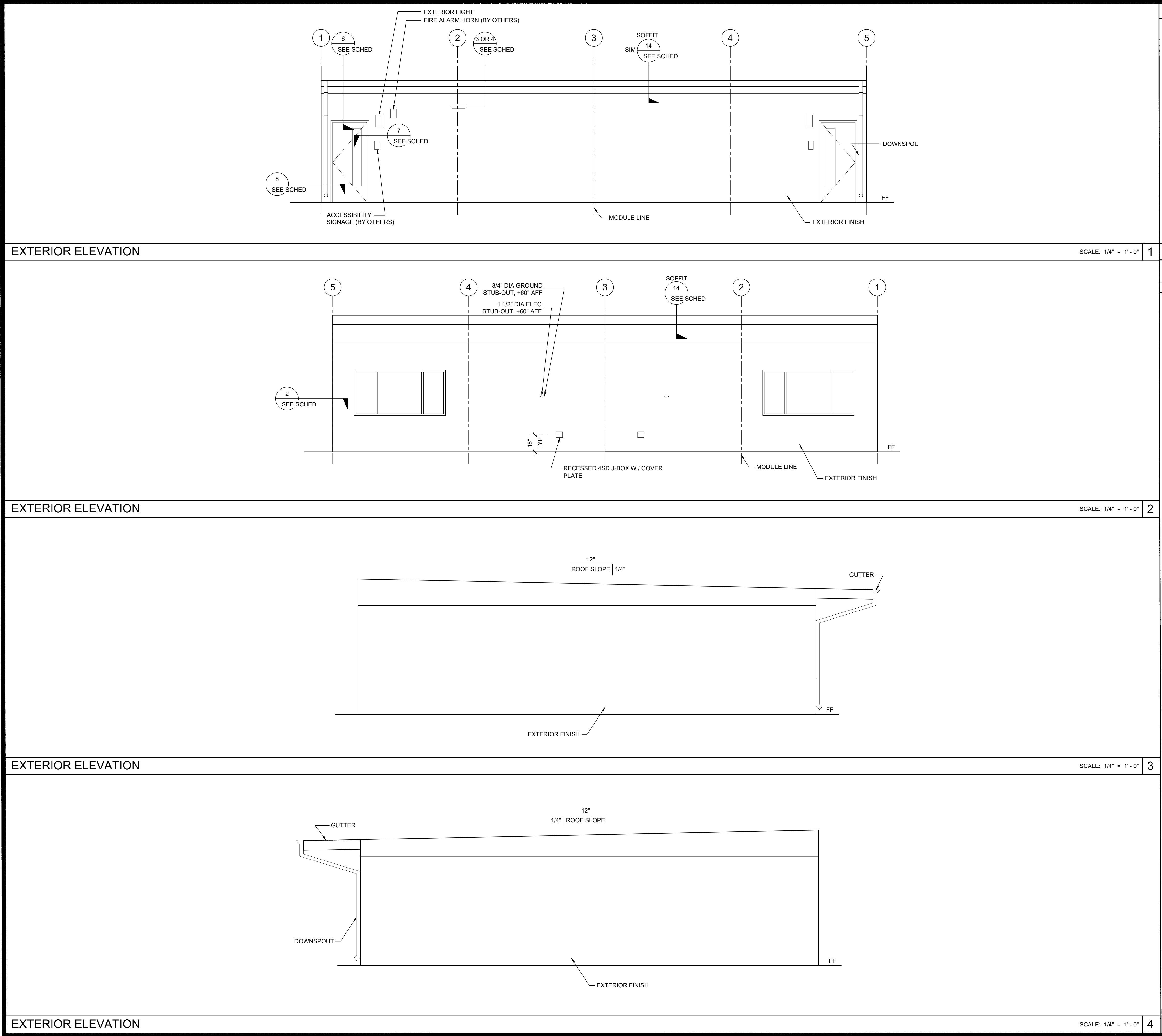
DRAWN BY:

SCALE: AS NOTED

DATE _____

SHEET NUMBER

A-4.01N



NOTES (EXTERIOR ELEVATION)	
SEE PC SHEET A-4.04	
DETAIL SCHEDULE	
EXTERIOR FINISH:	SHEET #:
X SIDING OVER WOOD STUDS(WUI COMPLIANT DURATEMP)A-5.50	

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SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
EXTERIOR ELEVATION

ARCHITECT OF RECORD
SUBMISSION DATE



PROJECT SPECIFIC STATE AGENCY APPROVAL

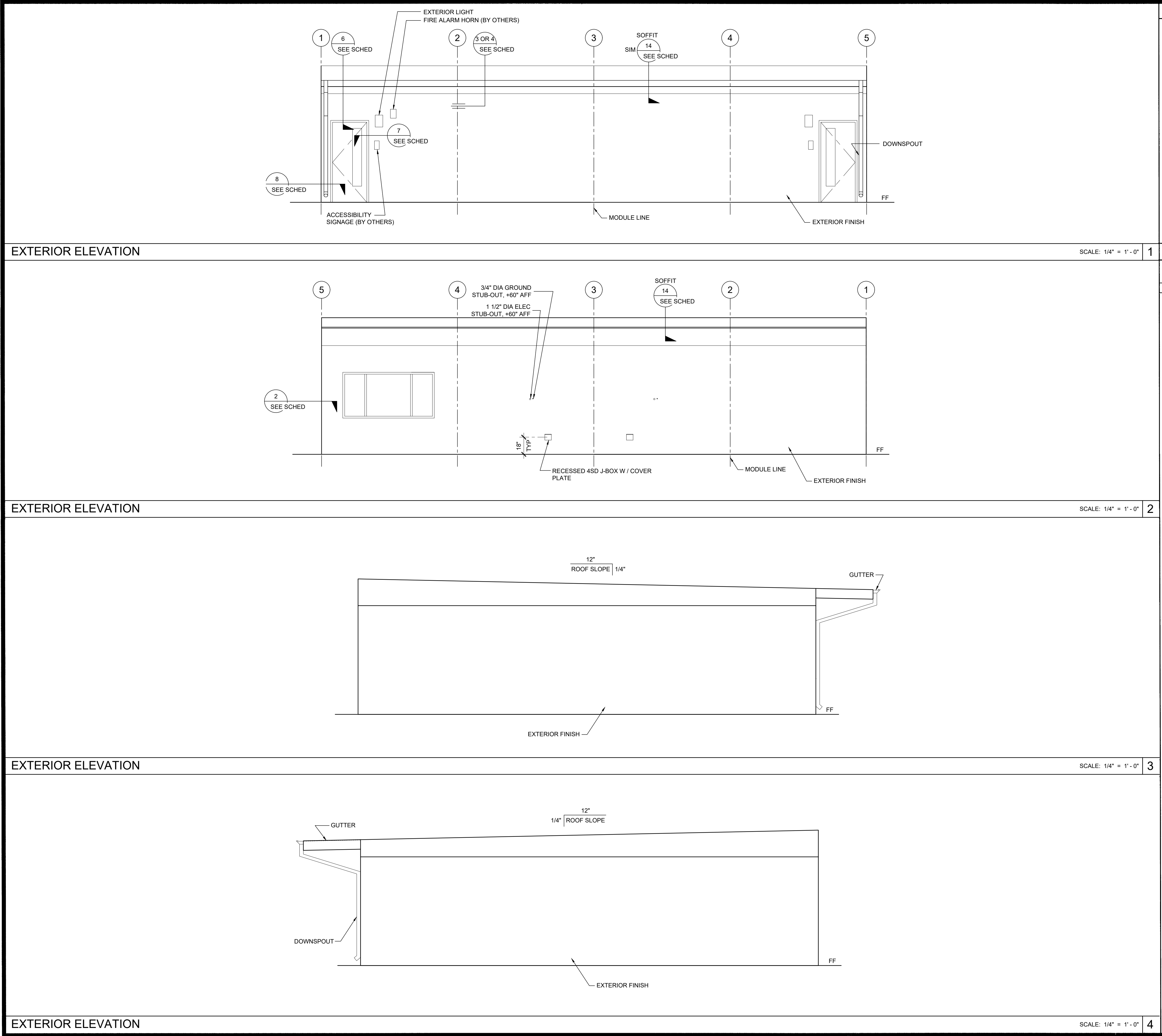
REVISIONS

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SILVER CREEK INDUSTRIES

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	

SHEET NUMBER	
A-4.03N	



NOTES (EXTERIOR ELEVATION)

SEE PC SHEET A-4.04

DETAIL SCHEDULE	
EXTERIOR FINISH:	SHEET #:
X SIDING OVER WOOD STUDS (WUI COMPLIANT DURATEMP) A-5.50	

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SILVER CREEK INDUSTRIES, INC.

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
EXTERIOR ELEVATION

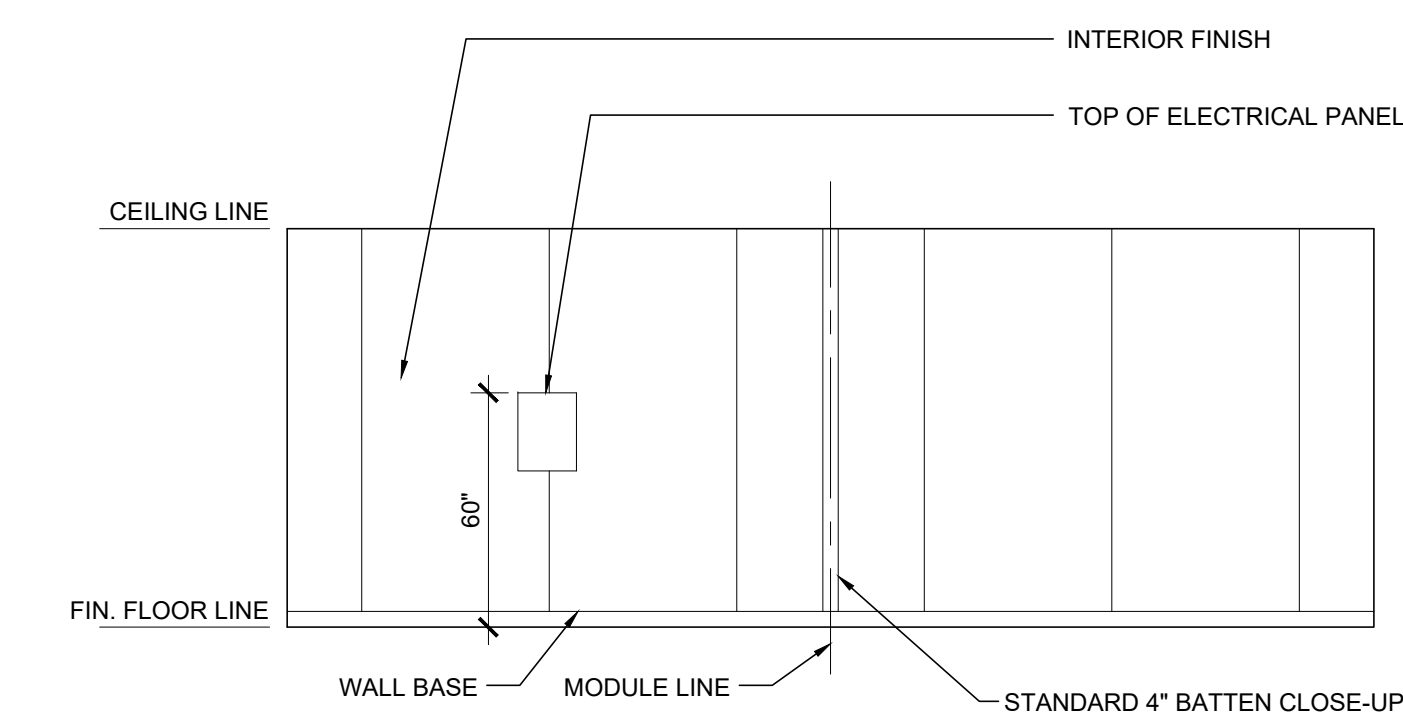
ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

SILVER CREEK INDUSTRIES

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	

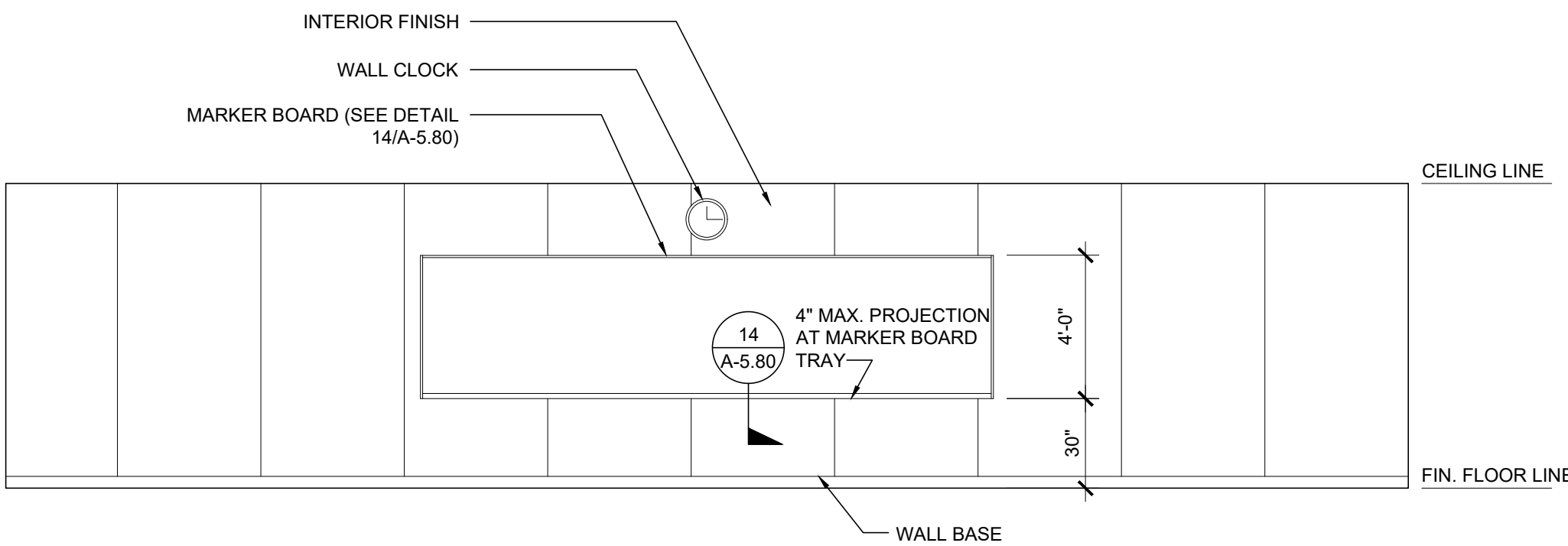
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A-4.03.1N	



INTERIOR ELEVATION

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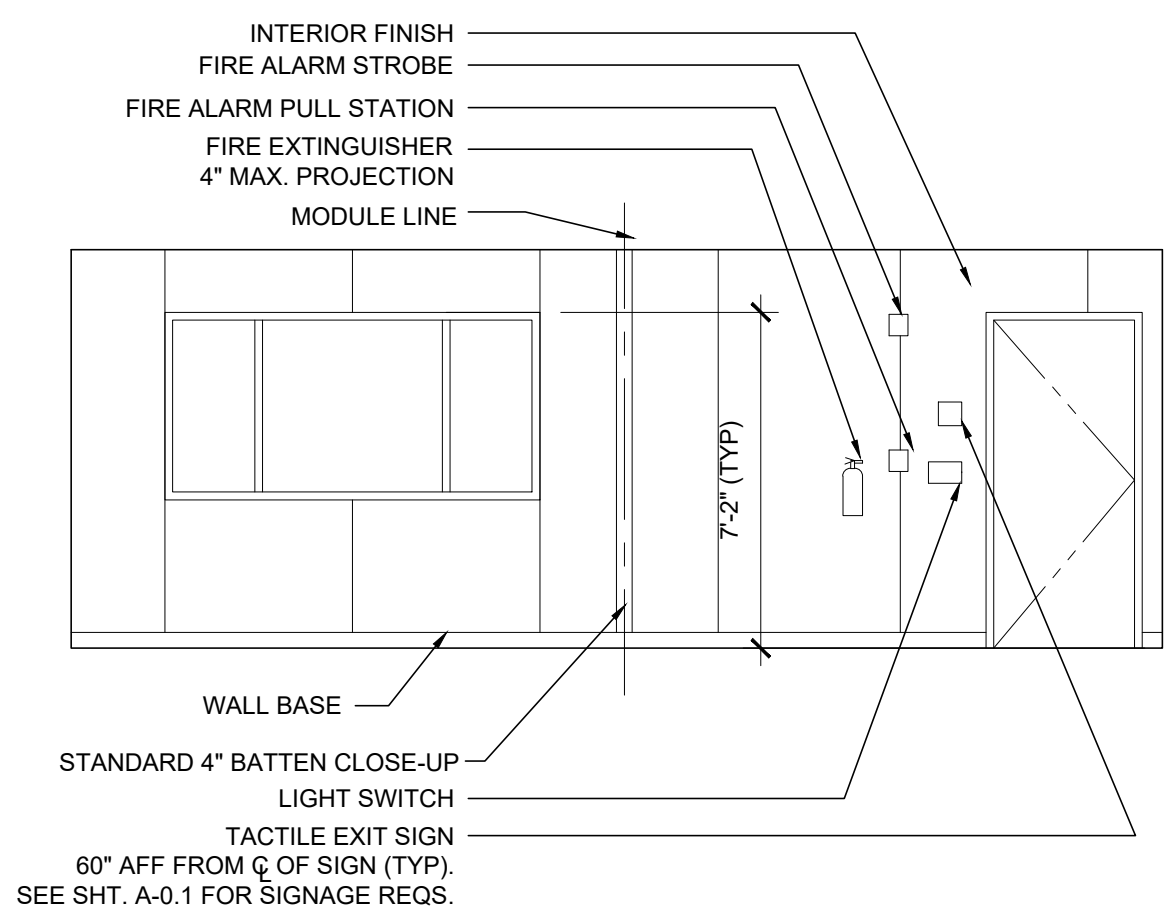
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INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

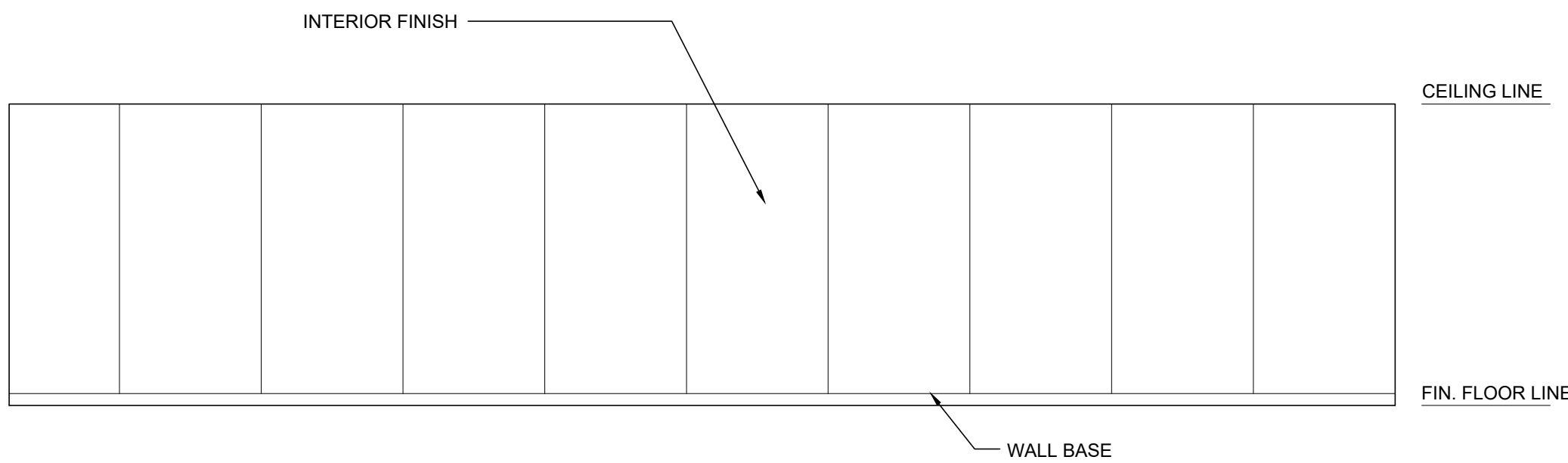
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INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

3



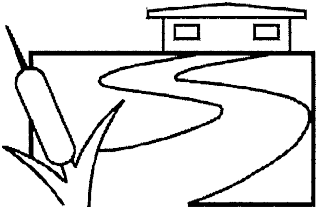
INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

4

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SILVER CREEK INDUSTRIES, INC.



"BUILDING FOR THE NEXT GENERATION"

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

PALOMAR COLLEGE EDUCATION CTR.

PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:

INTERIOR ELEVATION



PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

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SILVER CREEK INDUSTRIES

PROJECT NO:

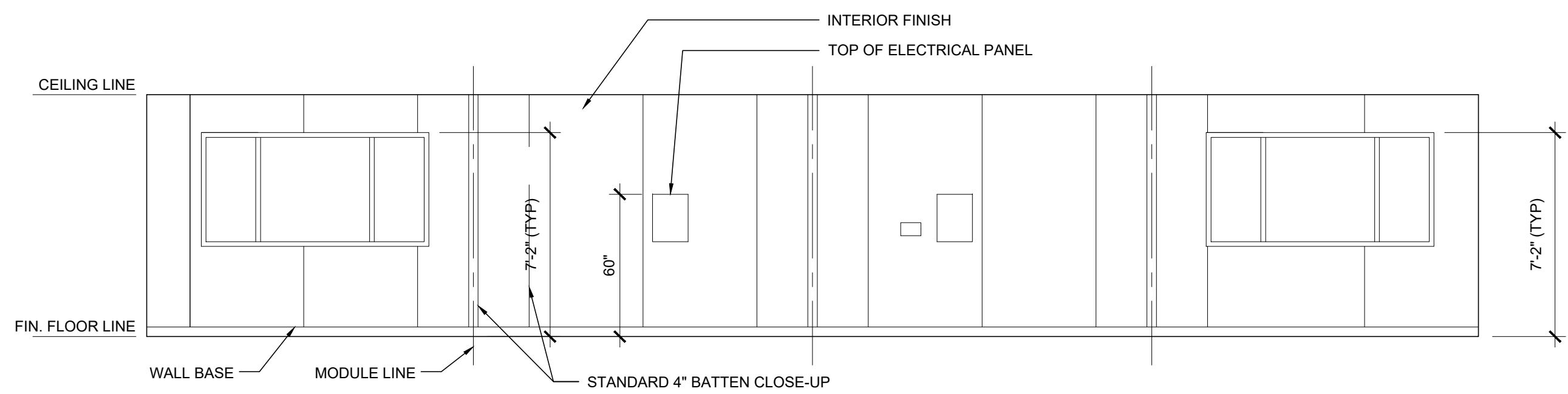
DRAWN BY:

SCALE: AS NOTED

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SHEET NUMBER

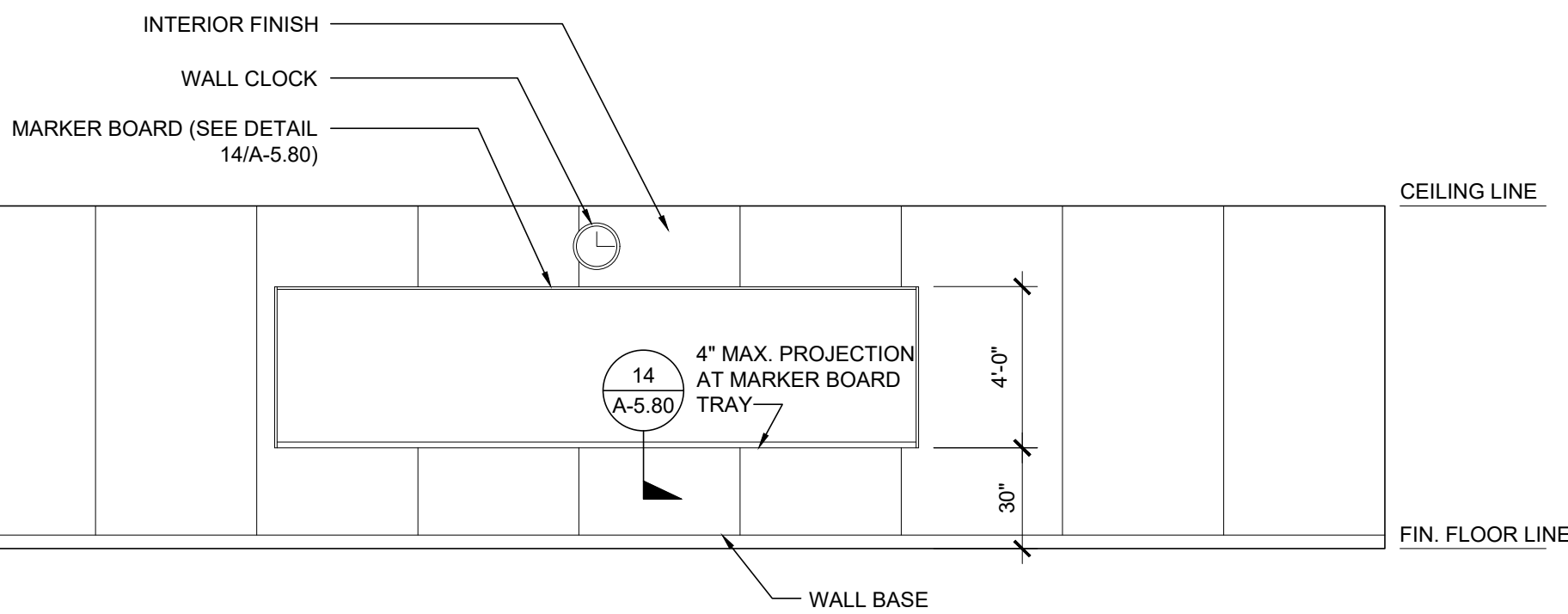
A-6.01N



INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

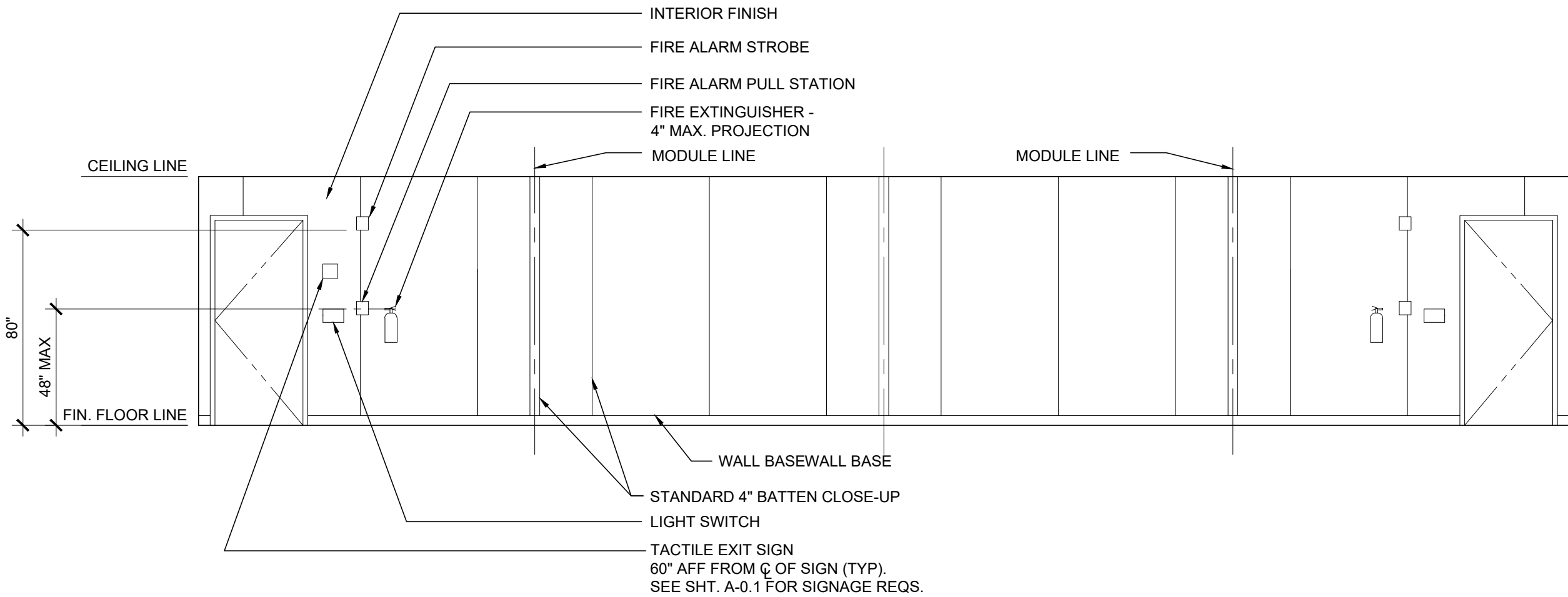
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INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

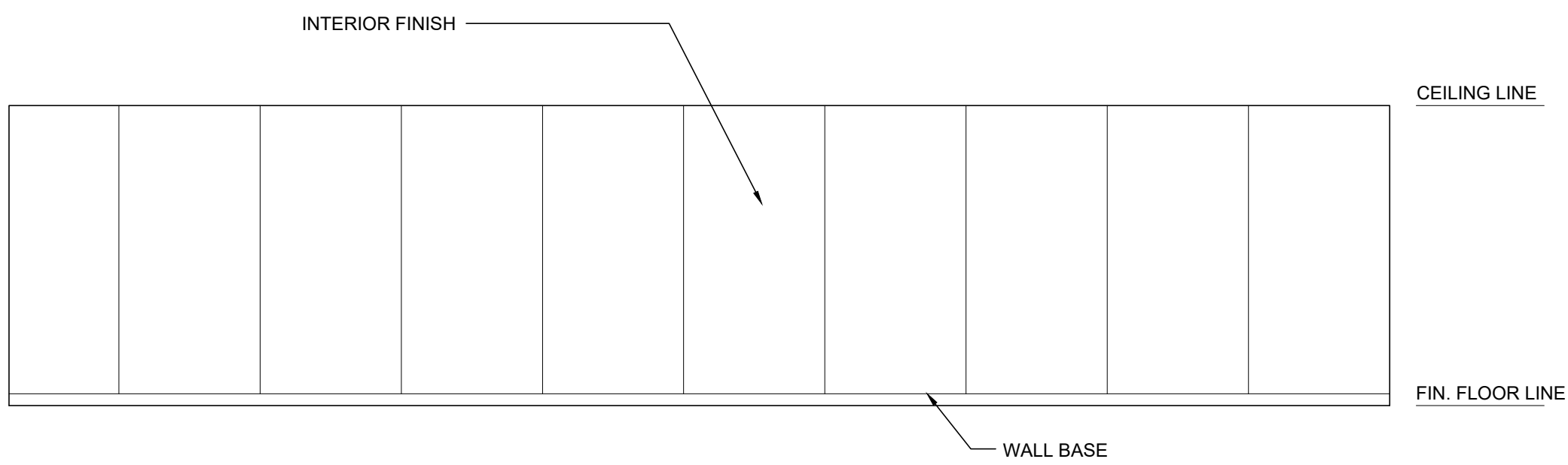
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INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

3



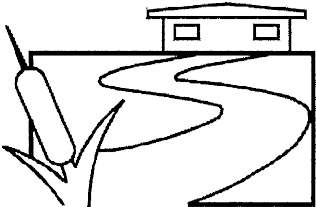
INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

4

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SILVER CREEK INDUSTRIES, INC.



"BUILDING FOR THE NEXT GENERATION"

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

PALOMAR COLLEGE EDUCATION CTR.

PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:

INTERIOR ELEVATION



PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

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SILVER CREEK INDUSTRIES

PROJECT NO:

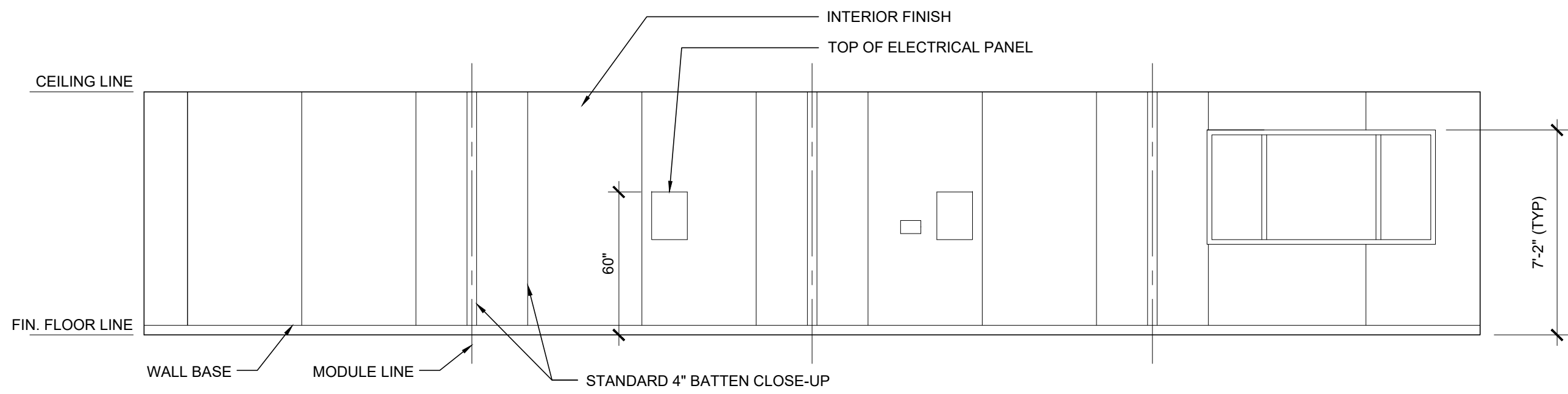
DRAWN BY:

SCALE: AS NOTED

DATE:

SHEET NUMBER

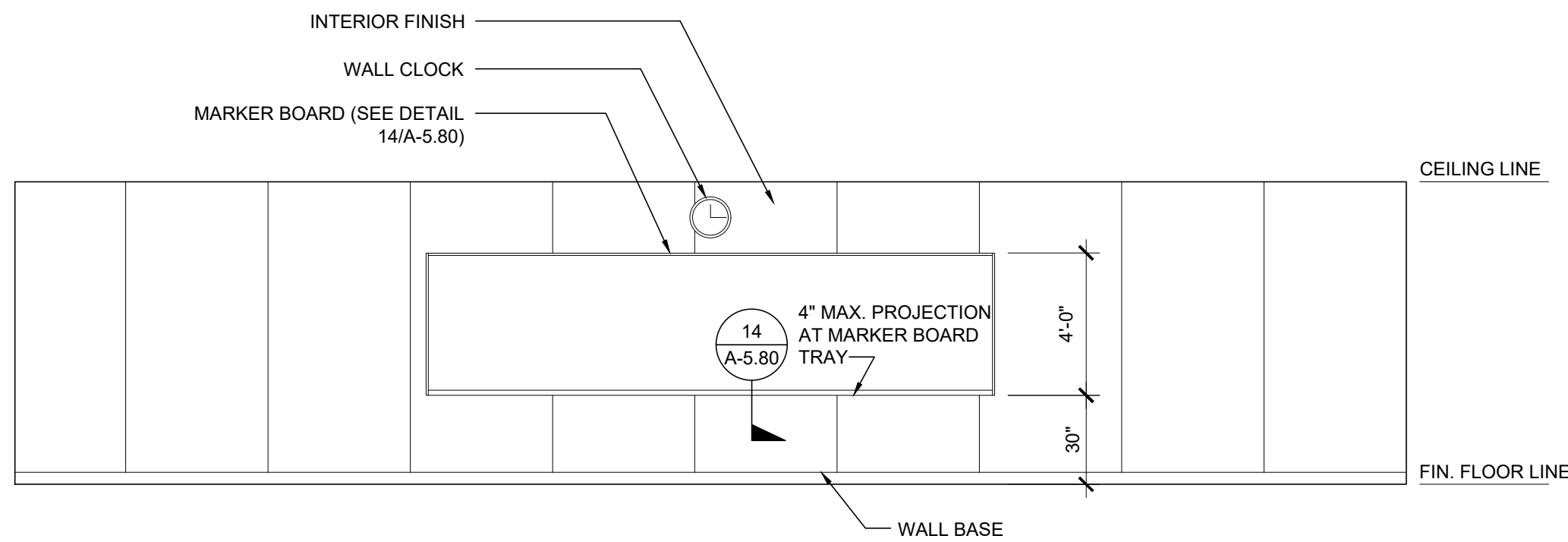
A-6.03N



INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

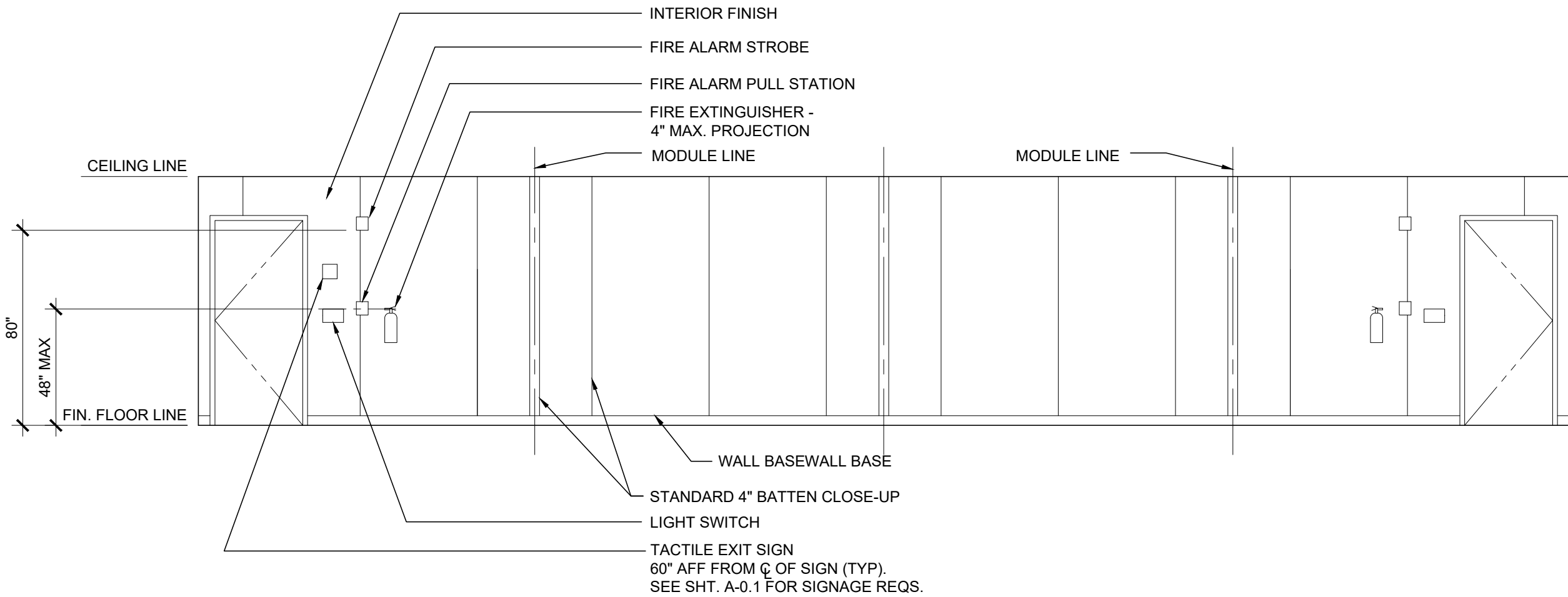
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INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

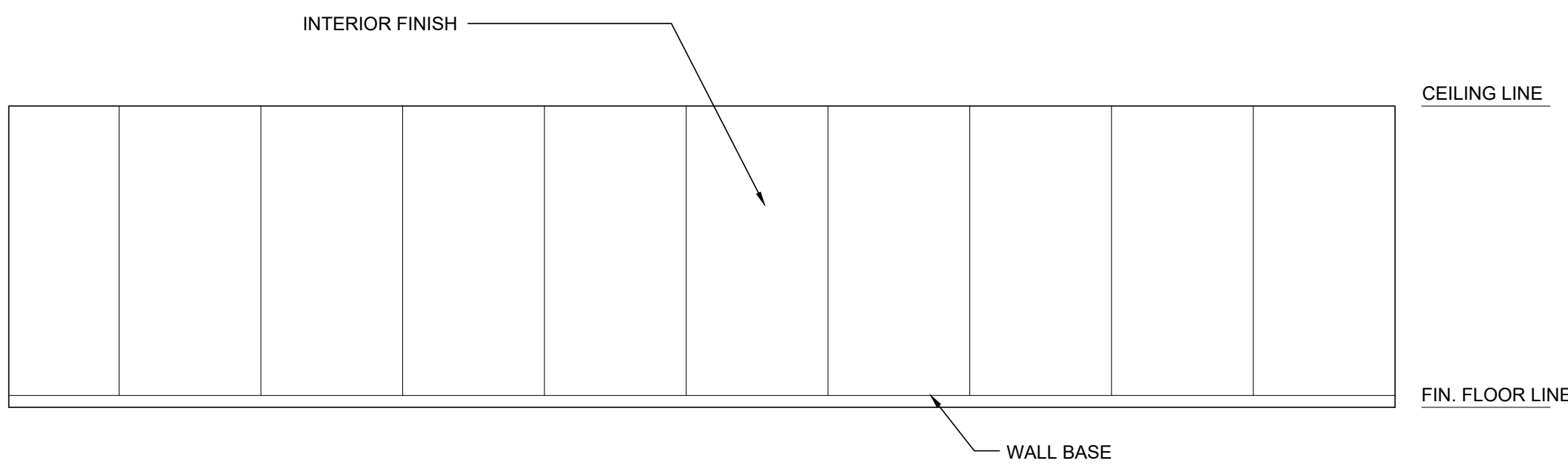
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INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

3



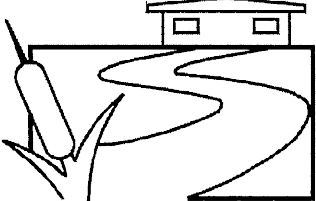
INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"

4

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"BUILDING FOR THE NEXT GENERATION"

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

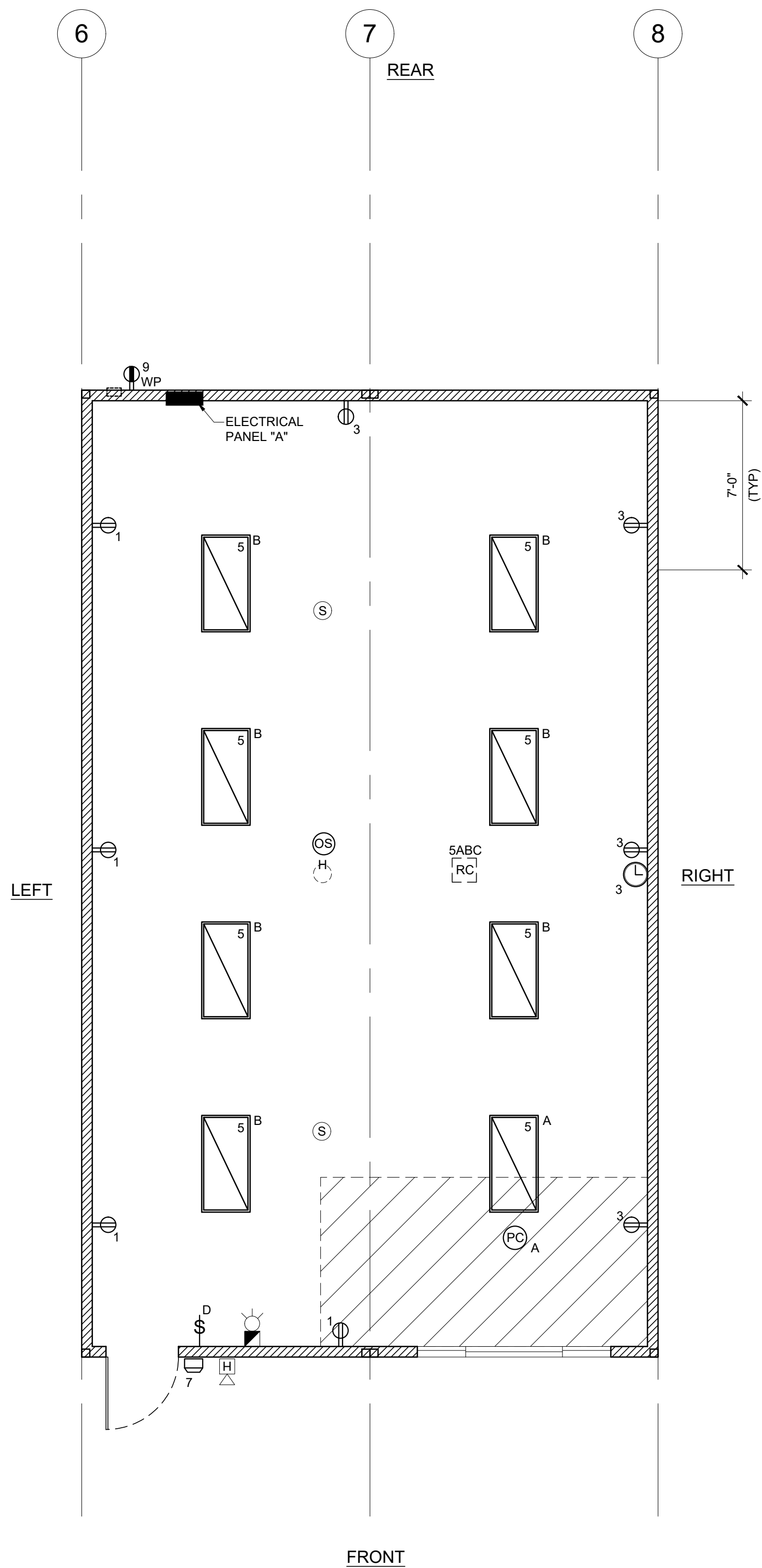
SHEET TITLE:
INTERIOR ELEVATION



PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS	
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SILVER CREEK INDUSTRIES	
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	
SHEET NUMBER	
A-6.03.1N	



- LEGEND:
- 2 ⌀ DUPLEX POWER RECEPTACLE +18" U.O.N.
 - ⌀ DOUBLE DUPLEX RECEPTACLE +18" U.O.N.
 - ⌀ POWER FLOOR BOX WITH 6'-0" POWER WHIP
 - ⌀ DUPLEX POWER RECEPTACLE MOUNTED IN CEILING TILE
 - ⌀ SINGLE GANG JUNCTION BOX +18" U.O.N. WITH 3/4"C. STUBBED INTO CEILING FOR BOOK DETECTION
 - ⌀ RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPALSH
 - GFI ⌀ GROUND FAULT INTERRUPTER TYPE RECEPTACLE
 - FP ⌀ DUPLEX RECEPTACLE FOR FLAT PANEL DISPLAY.
 - ⌀ FUME HOOD CONNECTION.
 - WP ⌀ DUPLEX GFI RECEPTACLE WITH WEATHERPROOF COVER FOR EXTERIOR VENDING MACHINE.
 - ⌀ RECESSED FLOOR RECEPTACLE.

SEE PC
SHEET E-1.01
FOR
ELECTRICAL
LEGEND

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

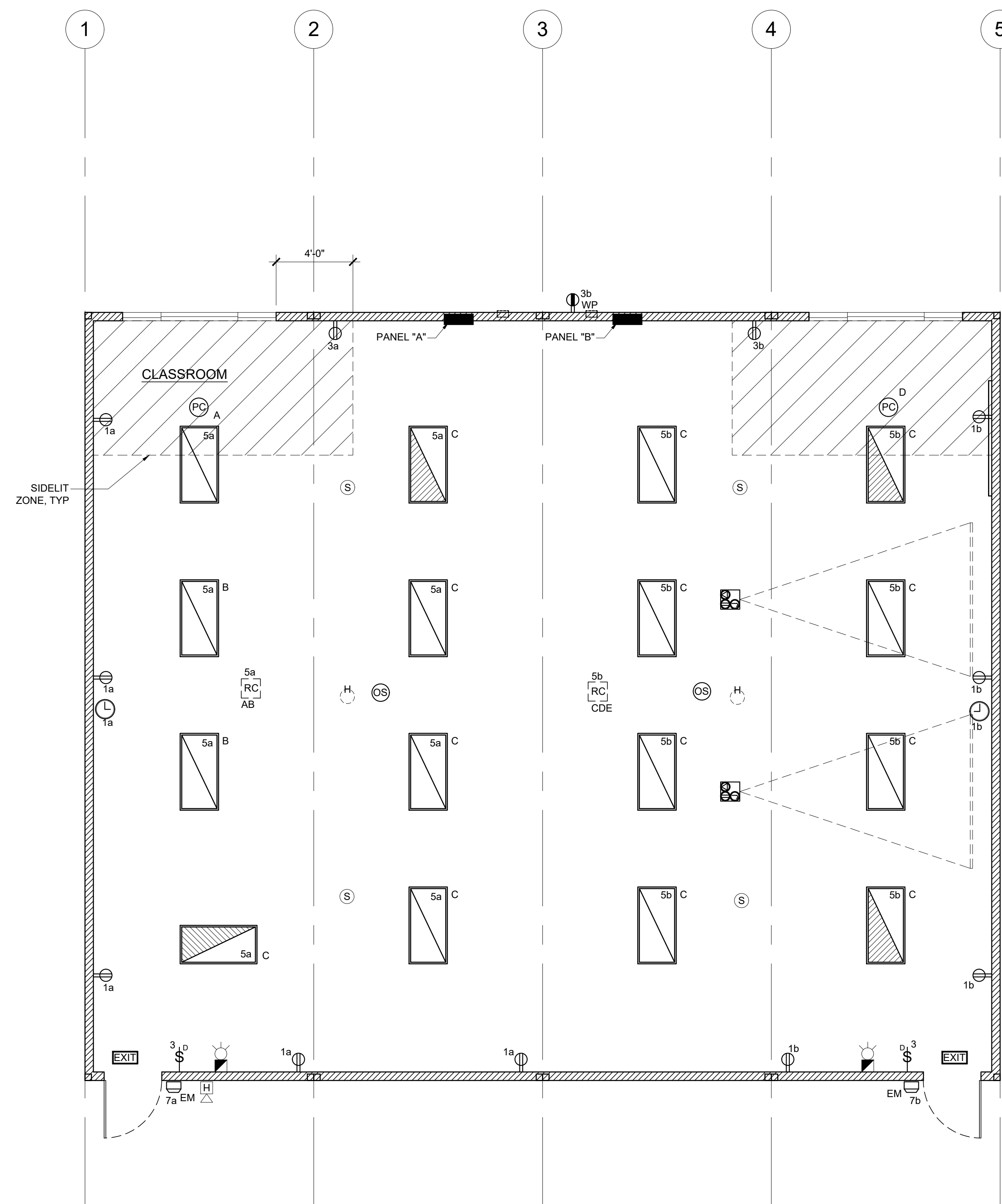
SHEET TITLE:
ELECTRICAL PLAN



PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS	
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SILVER CREEK INDUSTRIES	
PROJECT NO:	
DRAWN BY:	
SCALE: AS NOTED	
DATE:	
SHEET NUMBER	
E-1.01N	



SEE PC
SHEET E-1.03
FOR
ELECTRICAL
LEGEND

LEGEND

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:
ELECTRICAL PLAN

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

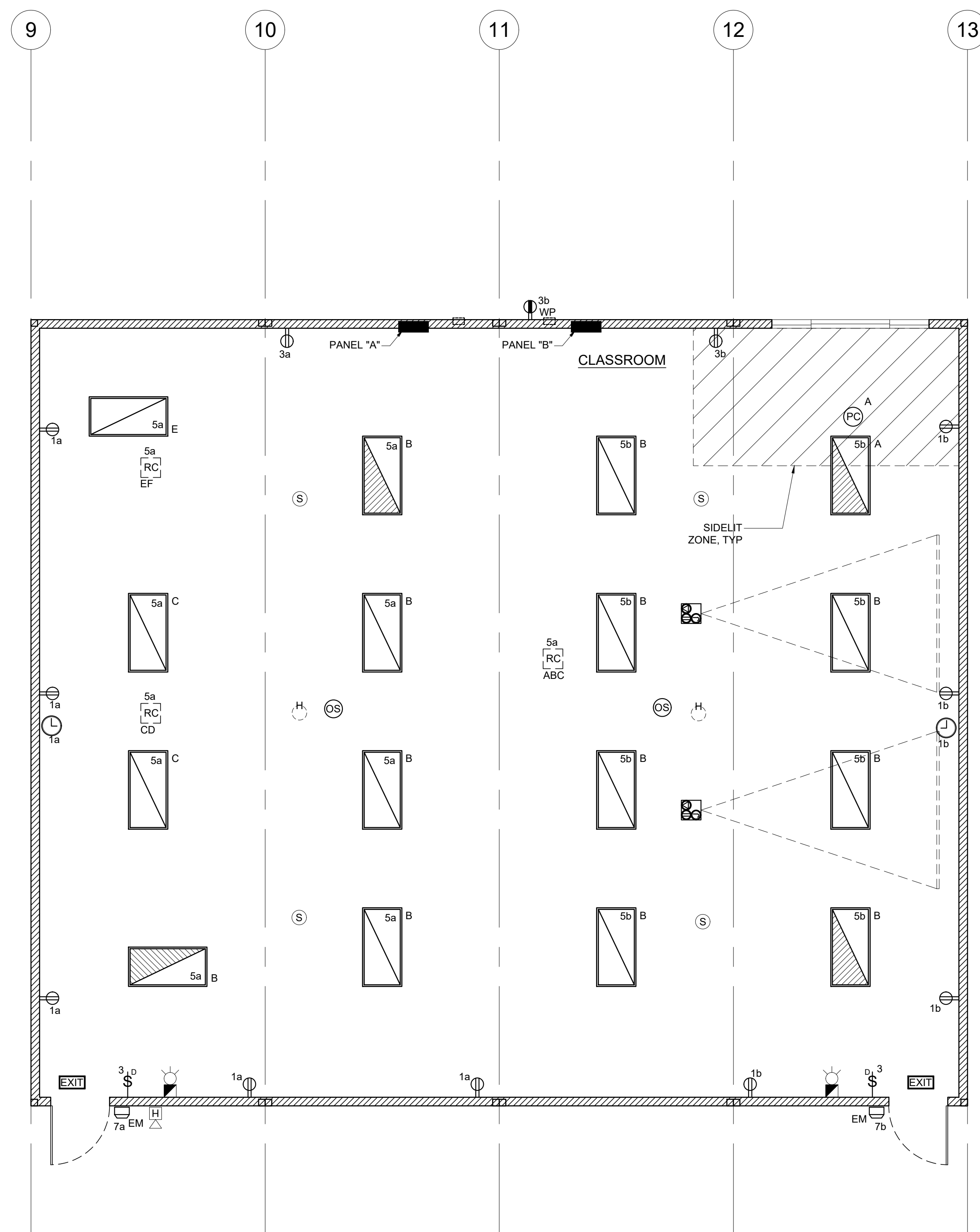
REVISIONS

SILVER CREEK INDUSTRIES

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
E-1.03N

1



SEE PC
SHEET E-1.03
FOR
ELECTRICAL
LEGEND

LEGEND

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2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:
ELECTRICAL PLAN

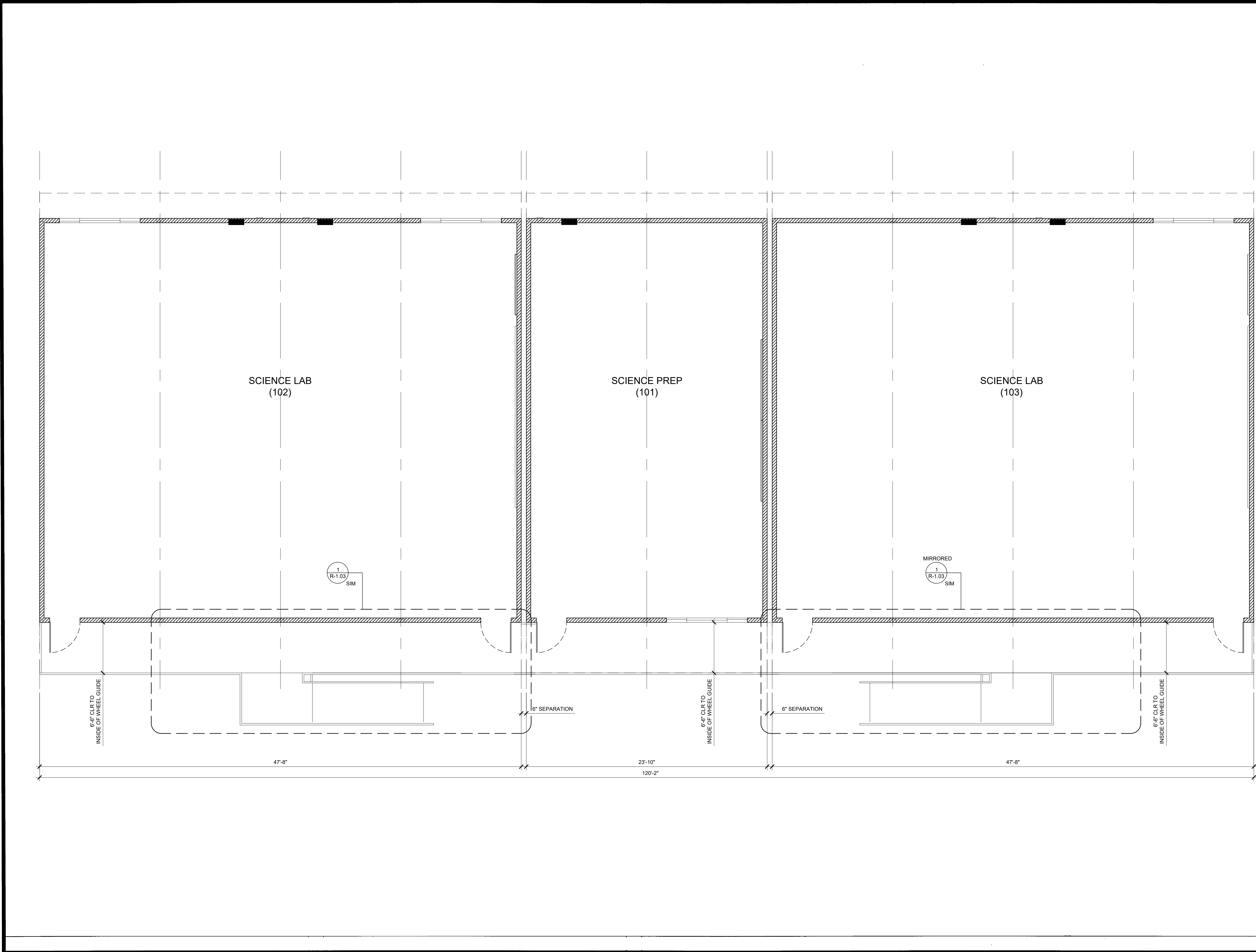


PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS	
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SILVER CREEK INDUSTRIES	
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	
SHEET NUMBER	

E-1.03.1N



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SILVER CREEK

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
**PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING**

SHEET TITLE:
RAMP LANDING

ARCHITECT OF RECORD
SUBMISSION DATE

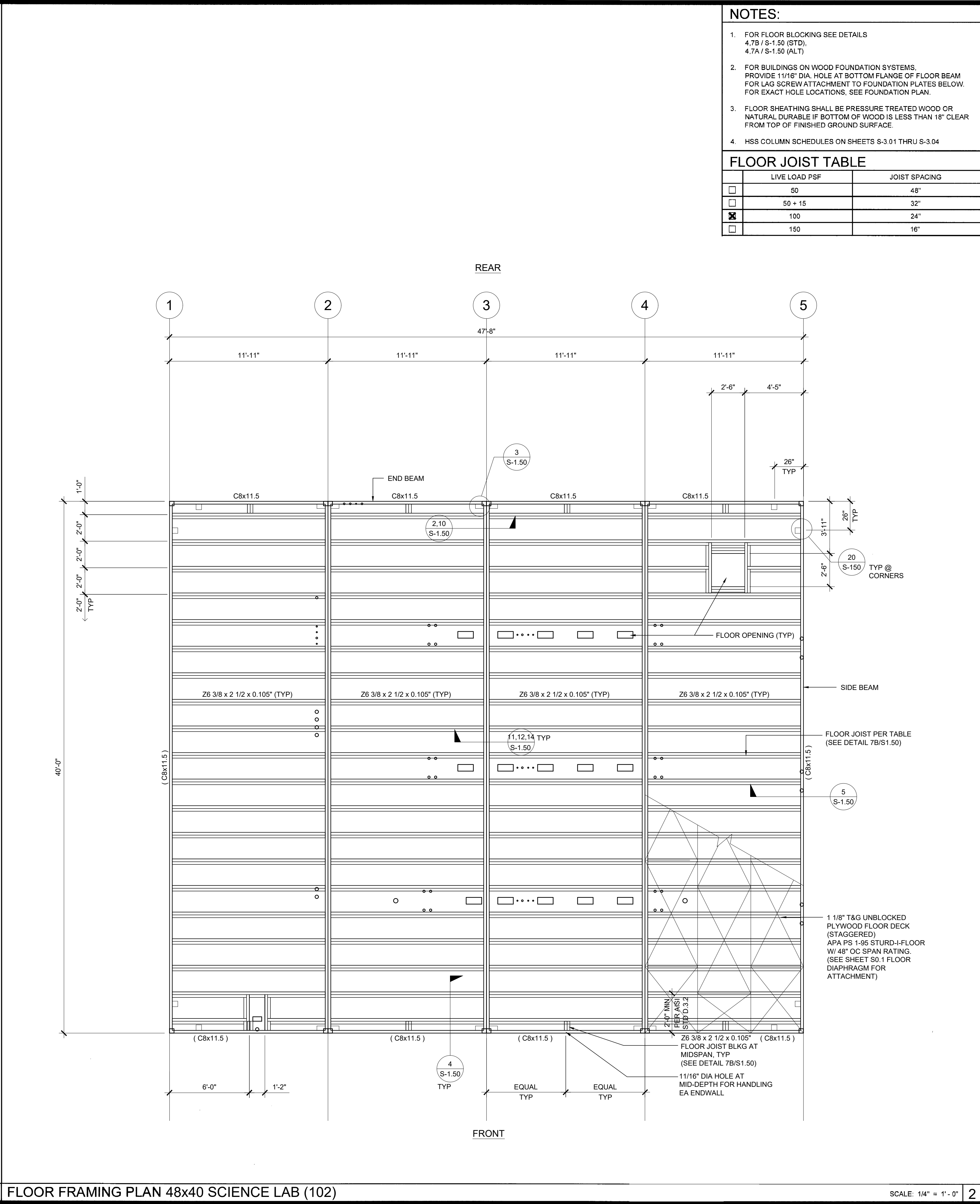
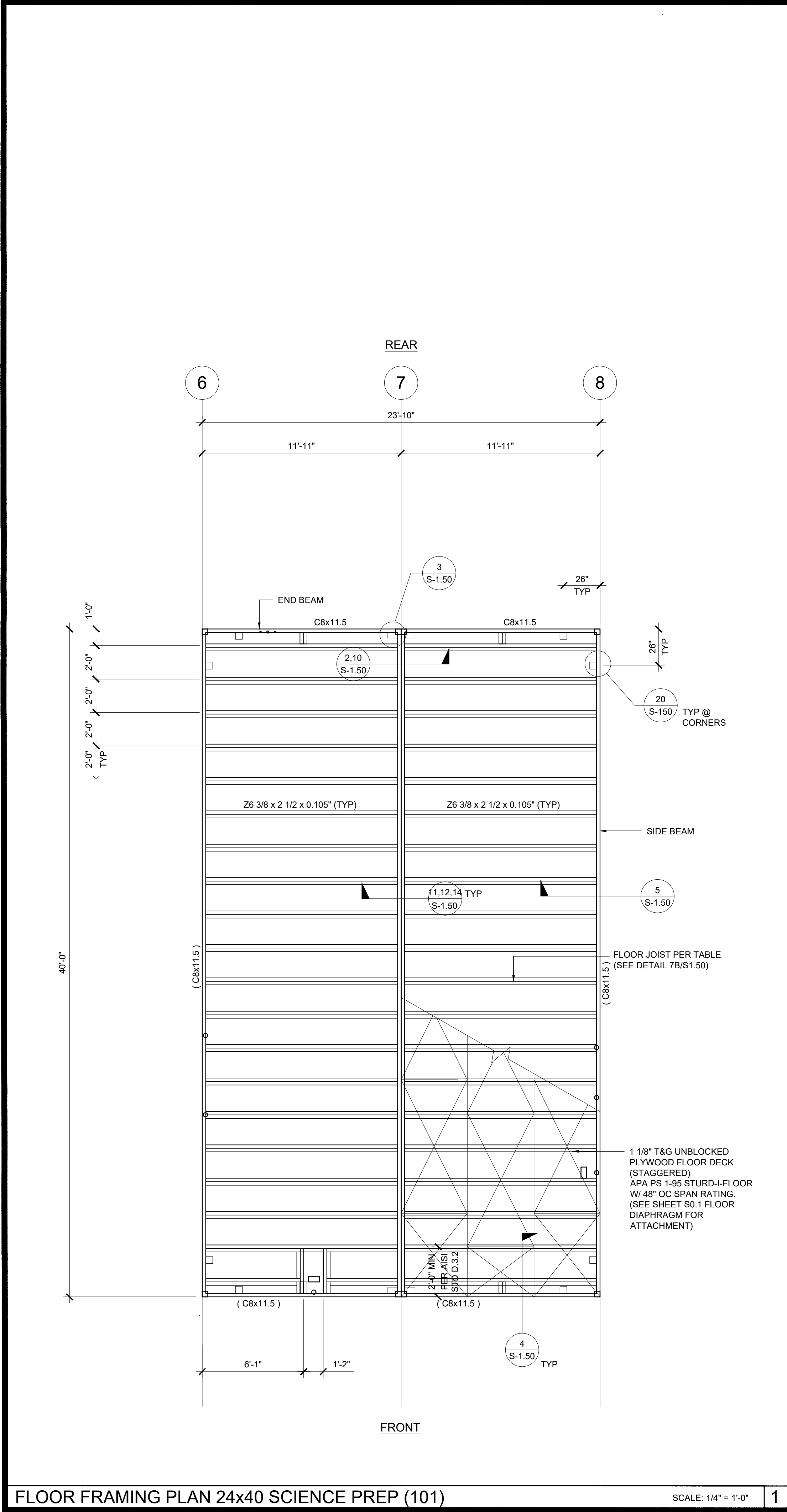
PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

SILVER CREEK INDUSTRIES

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE:

SHEET NUMBER
R-1.00



NOTES:

- FOR FLOOR BLOCKING SEE DETAILS 4.7B / S-1.50 (STD), 4.7A / S-1.50 (ALT)
- FOR BUILDINGS ON WOOD FOUNDATION SYSTEMS, PROVIDE 1 1/16" DIA. HOLE AT BOTTOM FLANGE OF FLOOR BEAM FOR LAG SCREW ATTACHMENT TO FOUNDATION PLATES BELOW. FOR EXACT HOLE LOCATIONS, SEE FOUNDATION PLAN.
- FLOOR SHEATHING SHALL BE PRESSURE TREATED WOOD OR NATURAL DURABLE IF BOTTOM OF WOOD IS LESS THAN 18" CLEAR FROM TOP OF FINISHED GROUND SURFACE.
- HSS COLUMN SCHEDULES ON SHEETS S-3.01 THRU S-3.04

FLOOR JOIST TABLE

LIVE LOAD PSF	JOIST SPACING
50	48"
50 + 15	32"
100	24"
150	16"

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SILVER CREEK INDUSTRIES, INC.

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
FLOOR FRAMING PLAN WOOD FLOOR

ARCHITECT OF RECORD
SUBMISSION DATE
No. C-33487
REX 01-31-2019
STATE OF CALIFORNIA

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

SILVER CREEK INDUSTRIES

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE:
SHEET NUMBER

S-1.01N

NOTES:

1. FOR FLOOR BLOCKING SEE DETAILS
4.7B / S-1.50 (STD).
4.7A / S-1.50 (ALT)

2. FOR BUILDINGS ON WOOD FOUNDATION SYSTEMS.
PROVIDE 1 1/16" DIA. HOLE AT BOTTOM FLANGE OF FLOOR BEAM
FOR LAG SCREW ATTACHMENT TO FOUNDATION PLATES BELOW.
FOR EXACT HOLE LOCATIONS, SEE FOUNDATION PLAN.

3. FLOOR SHEATHING SHALL BE PRESSURE TREATED WOOD OR
NATURAL DURABLE IF BOTTOM OF WOOD IS LESS THAN 18" CLEAR
FROM TOP OF FINISHED GROUND SURFACE.


4. HSS COLUMN SCHEDULES ON SHEETS S-3.01 THRU S-3.04

FLOOR JOIST TABLE

	LIVE LOAD PSF	JOIST SPACING
<input type="checkbox"/>	50	48"
<input type="checkbox"/>	50 + 15	32"
<input checked="" type="checkbox"/>	100	24"
<input type="checkbox"/>	150	16"

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SILVER CREEK INDUSTRIES, INC.




"BUILDING FOR THE
NEXT GENERATION"

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:
FLOOR FRAMING PLAN
WOOD FLOOR

ARCHITECT OF RECORD
SUBMISSION DATE



PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

NO.	DESCRIPTION
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SILVER CREEK INDUSTRIES

PROJECT NO:

DRAWN BY:

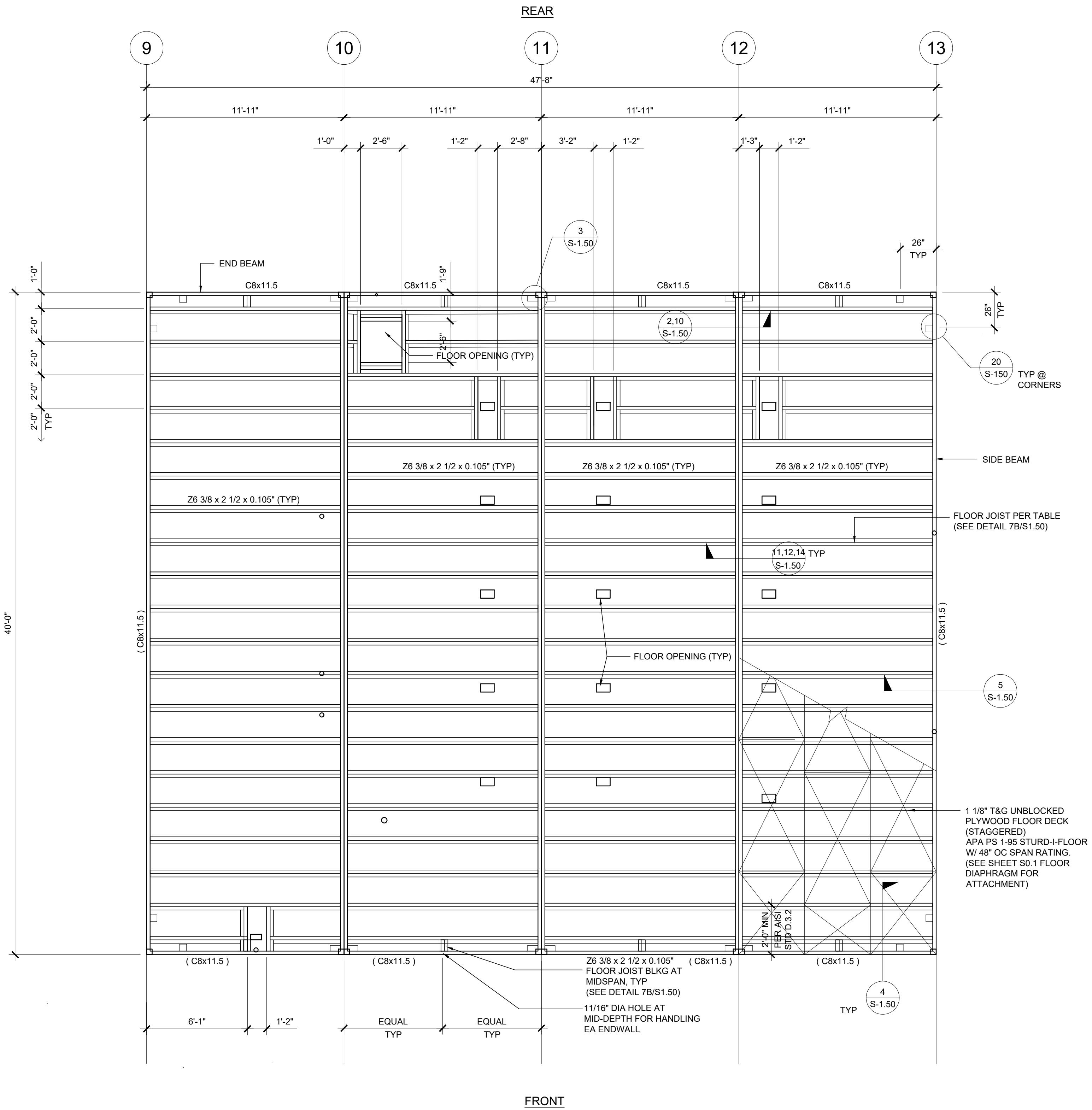
SCALE: AS NOTED

DATE:

SHEET NUMBER

S-1.02N

1



FLOOR FRAMING PLAN 48x40 SCIENCE LAB (103)

SCALE: 1/4" = 1'-0"

1



HYDRAULIC SYSTEM	
This building is protected by a Hydraulically Designed Automatic Sprinkler System	
Location	CLASSROOM
Sprinkler Information	
NUMBER OF SPRINKLERS FLOWING	7
MANUFACTURER	TYCO
MODEL	TY 322
ISS BANDWIDTH	K-FACTOR RESPONSE
1/2" ORIFICE	K-FACTOR 5.6
Basis of Design	
FRAMING	NFPA 2016 EDITION
WATER SUPPLY	LIGHT HAZARD
DENSITY	0.1
DESIGNED AREA OF DISCHARGE	900
System Demand	
DESIGN TEMPERATURE AT THE DISCHARGE	733
DESIGN TEMPERATURE AT THE WATER SUPPLY	27.5
DESIGN TEMPERATURE AT THE WATER SUPPLY	233
DESIGN TEMPERATURE AT THE WATER SUPPLY	29.9
HOSE STREAM ALLOWANCE	0
	100
	100
REMOTE SPRINKLER FLOW	18 gpm @ 10.33

Sway Brace Zone Legend						
Diameter	Description	Unit Quantity	Quantity/Unit Weight	Cp =	Net Weight	
2	Pipe, Eddy Flow (BMT)	(2)(9'-11")/2(2'-0")	23'-10"	4lb/0.61	573lb	
1	Pipe, Eddythread 40 (BMT)	(2)(1'-43")/2(0'-33")/2(0'-54")	4'-10"	2lb/0.61	62lb	
1x	Pipe, Eddythread 40 (BMT)	(2)(1'-18")/2(2'-1'0")	65'-4"	2lb/0.61	1123lb	
				Total Net Weight	1763lb	
				Total Load (x 1.15)	2033lb	



Scale 1/8"= 1' 120' x 40' MODULAR BUILDING
4800 SQ. FT.

**FS 2N**



Building for the Next Generation
2380 Barret Avenue
Perris, CA 92571

ARCHITECT STAMP:



ENGINEER STAMP:



CONSULTANT:



14102 Holt Avenue
North Tustin, CA 92705
714 368 0230
C-16 # 898658

CONSULTANT STAMP:



PROJECT NAME:

Palomar College
35090 Horse Ranch Creek Rd
Fallbrook, CA 92028

ISSUE DATES: DESCRIPTION: DATE:
Site Utility 09/10/17

PROJECT NO: 1nnnn

DRAWN BY: Kris Michel
CHECKED BY:

1nnnn

SHEET TITLE:
Site Utility
SHEET NUMBER:

FS 4N

BUILDING SIZE: 24' X 40'
EXPANDABLE TO 120' X 40'
PC 04-114027 HIGH SEISMIC

PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL

2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2013 CBC 705.3

3. THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM

4. PC IS DESIGNED AS A SINGLE STORY MODULAR BUILDING

5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS

6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES

8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.2.8, 2013 CBC

9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2.8 & 1406

10. SEE SHEETS A-0.6, A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM

11. PURSUANT TO D.S.A. APPROVAL, ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL"

12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A

13. WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH CALGREEN CODE, SECTION 6.507.4 FOR THE SITE SPECIFIC LOCATION

14. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO THE SAME PC CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR-CEILING SHALL MEET THE MINIMUM REQUIREMENTS OF THE STC RATING OF 40 PER CALGREEN CODE, SECTION 5.607.4.3

BUILDING DATA

NUMBER OF STORIES: 1 - STORY

OCCUPANCY: E - 24' x 120' x 40' BUILDINGS

TYPE OF CONSTRUCTION: VB

FLOOR LIVE LOAD:

☐ 50 PSF

☐ 50+15 PSF PARTITION LOAD

☒ 100 PSF

☐ 150 PSF

ROOF LIVE LOAD: 20 PSF

ROOF SNOW LOAD: 0 PSF

FLOOR DEAD LOAD:

☐ WOOD FLOOR - 11 PSF

☐ CONC FLOOR - 33 PSF

ROOF DEAD LOAD: 17 PSF (INCLUDING SPRINKLER LOAD)

RAMP LIVE LOAD: 100 PSF

BUILDING AREA:

☐ 20'x47' BLDG - 950 51140 50'

☐ 35'x47' BLDG - 1440 511710 50'

☐ 45'x47' BLDG - 1920 572260 50'

☐ 60'x47' BLDG - 2400 572850 50'

☐ 80'x47' BLDG - 3360 573030 50'

☐ 95'x47' BLDG - 3840 514520 50'

☐ 108'x47' BLDG - 4320 515310 50'

☐ 120'x47' BLDG - 4800 573010 50'

ALLOWABLE BLDG. AREA: ☐ 8,500 SF

FOUNDATION:

☒ WOOD

☐ CONCRETE

SEIC CLIMATE ZONES: 1 - 18

SNOW LOAD: Pg = 0.0 PSF

WIND DESIGN DATA

SECTION 1603.0 A.1.4

1. ULTIMATE DESIGN WIND SPEED, 3 SEC GUST (MPH) V_{ULT}

129 / Kzt = 1.0

2. RISK CATEGORY:

II

3. WIND EXPOSURE:

"C"

4. APPLICABLE INTERNAL PRESSURE COEFFICIENT:

± 0.18

5. COMPONENTS AND CLADDING:

ZONE 1 =

38.5

ZONE 4 =

38.1

ZONE 2 =

94.1

ZONE 5 =

46.9

ZONE 3 =

67.5

PARAPET =

131.7

EARTHQUAKE DESIGN DATA

SECTION 1603.0 A.1.5

1. SEISMIC IMPORTANCE FACTOR:

1

2. MAPPED SPECTRAL RESPONSE:

DESIGN $S_{DS} = 2.24$ (FOR CATEGORY C)

$S_{D1} = 1.0$

3. SITE CLASS:

D

4. SPECTRAL RESPONSE COEFFICIENTS:

$S_{m1} = 1.49$ (11.87 ARCH.)

$S_{m2} = 1.00$

5. SEISMIC DESIGN CATEGORY:

E

6. BASIC SEISMIC/FLOOR-RESISTING SYSTEM:

OMF

7. DESIGN BASE SHEAR (kips) / PER MODULUS (12x40):

CONC FLOOR

PLY FLOOR

LL<100

LL=150

X

X

X

X

20.17

X

X

X

X

15.66

X

X

X

X

27.85

X

X

X

X

19.55

8. SEISMIC RESPONSE COEFFICIENT, C_s :

0.427

9. RESPONSE MODIFICATION FACTOR, R :

3.5

10. ANALYSIS PROCEDURE USED:

EQUIVALENT LATERAL FORCE

11. MINIMUM SEISMIC SEPARATION FROM OTHER EXISTING OR FUTURE BUILDINGS:

8" SEP.

THIS PC DOES NOT COVER ANY SITE SPECIFIC FLOOD DESIGN. ANY SITE SPECIFIC CONDITION OF FLOODING SHOULD BE ADDRESSED WITH ADDITIONAL CALCULATIONS.

LIST OF 2013 CALIFORNIA CODE OF REGULATIONS

2013 BUILDING ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.

2013 CALIFORNIA BUILDING CODE (CBC), PART 1, TITLE 24 C.C.R.

(2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.

(2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.

(2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.

(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.

(2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.)

(2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.

(2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.)

TITLE 19 C.C.R. - PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2007 ASME A17.1 (w/A17.1/cSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

SHEET INDEX

SHT NO.	ARCHITECTURAL	SHT NO.	FOUNDATION
A-0	COVER SHEET	F-0.01	WOOD FOUNDATION PLAN - 24' x 40' (50 PSF)
A-0.1	T & I FORMS	F-0.02	WOOD FOUNDATION PLAN - 24' x 40' (50+15 PSF)
A-0.2	BUILDING OPERATIONS SCHEDULE	F-0.03	WOOD FOUNDATION PLAN - 24' x 40' (100 PSF)
A-0.3	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE	F-0.04	WOOD FOUNDATION PLAN - 24' x 40' (150 PSF)
A-0.4	SCHEDULES	F-0.11	WOOD FOUNDATION PLAN - 36' x 40' (50 PSF)
A-0.5	TYPICAL KEY PLANS - 24' TO 120' x 40'	F-0.12	WOOD FOUNDATION PLAN - 36' x 40' (50+15 PSF)
A-0.5A	ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE	F-0.13	WOOD FOUNDATION PLAN - 36' x 40' (100 PSF)
A-0.5B	ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE	F-0.14	WOOD FOUNDATION PLAN - 36' x 40' (150 PSF)
A-0.5C	ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE	F-0.21	WOOD FOUNDATION PLAN - 48' x 40' (50 PSF)
A-0.6	ENERGY CALC'S - ELC FORMS - 24' x 40' BUILDINGS	F-0.22	WOOD FOUNDATION PLAN - 48' x 40' (50+15 PSF)
A-0.6B	ENERGY CALC'S - LTO / MCH FORMS - 24' x 40' BUILDINGS	F-0.23	WOOD FOUNDATION PLAN - 48' x 40' (100 PSF)
A-0.6C	ENERGY CALC'S - LTI FORMS - 24' x 40' BUILDINGS	F-0.24	WOOD FOUNDATION PLAN - 48' x 40' (150 PSF)
A-0.6D	ENERGY CALC'S - ELC FORMS - 120' x 40' BUILDINGS	F-0.25	WOOD FOUNDATION PLAN - 48' x 40' (100 PSF)
A-0.6E	ENERGY CALC'S - LTO / MCH FORMS - 120' x 40' BUILDINGS	F-0.26	WOOD FOUNDATION PLAN - 48' x 40' (150 PSF)
A-0.6F	ENERGY CALC'S - LTI FORMS - 120' x 40' BUILDINGS	F-0.27	WOOD FOUNDATION PLAN - 48' x 40' (150 PSF)
A-0.7	DESIGN ENERGY VALUES BY ZONE & CALGREEN SPECIFICATIONS	F-1.01	CONCRETE FOUNDATION PLAN - ABOVE GRADE - WOOD FLOOR
A-1.01	FLOOR PLAN - 24' x 40'	F-1.11	CONCRETE FOUNDATION PLAN - ABOVE GRADE - CONCRETE FLOOR
A-1.02	FLOOR PLAN - 36' x 40'	F-1.50	CONCRETE FOUNDATION DETAILS - ABOVE GRADE
A-1.03	FLOOR PLAN - 48' TO 120' x 40'	F-2.01	CONCRETE FOUNDATION PLAN - BELOW GRADE - WOOD FLOOR
A-1.04	OPTIONAL 12x40 TOILET MODULE PLANS & ELEVATIONS	F-2.11	CONCRETE FOUNDATION DETAILS - BELOW GRADE
A-1.05	OPTIONAL 22x40 TOILET MODULE PLUMBING PLAN & ISOMETRICS	F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
A-1.06	OPTIONAL 24x40 TOILET BUILDING PLANS & ELEVATIONS	F-2.51	CONCRETE FOUNDATION DETAILS - CONCRETE
A-1.07	OPTIONAL 24x40 TOILET BUILDING PLUMBING PLAN & ISOMETRICS		
A-2.01	REFLECTED CEILING PLAN - 24' x 40'	SHT NO.	STRUCTURAL "HIGH SEISMIC"
A-2.02	REFLECTED CEILING PLAN - 36' x 40'	S-0.1	STRUCTURAL SPECIFICATIONS
A-2.03	REFLECTED CEILING PLAN - 48' TO 120' x 40'	S-1.01	FLOOR FRAMING PLAN - WOOD FLOOR
A-2.20	CEILING DETAILS - T-GRID	S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
A-2.21	CEILING DETAILS - HARD LID	S-1.50	FLOOR FRAMING DETAILS - WOOD FLOOR
A-3.01	ROOF PLAN - 0.018' METAL DECK - MONO OR DUAL SLOPE - 24' x 40'	S-1.60	FLOOR FRAMING DETAILS - CONCRETE FLOOR
A-3.02	ROOF PLAN - 0.018' METAL DECK - MONO OR DUAL SLOPE - 36' x 40'	S-2.01	ROOF FRAMING PLAN - 0.018' BUILT UP, OR TPO ROOF - MONO SLOPE
A-3.03	ROOF PLAN - 0.018' METAL DECK - MONO SLOPE - 48' TO 120' x 40'	S-2.02	ROOF FRAMING PLAN - 0.030' - MONO SLOPE
A-3.04	ROOF PLAN - 0.018' METAL DECK - DUAL SLOPE - 48' TO 120' x 40'	S-2.03	ROOF FRAMING PLAN - PARAPET - MONO SLOPE
A-3.11	ROOF PLAN - 0.018' METAL DECK - DUAL SLOPE - 48' TO 120' x 40'	S-2.11	ROOF FRAMING PLAN - 0.018' BUILT UP, OR TPO ROOF - DUAL SLOPE
A-3.12	ROOF PLAN - 0.030' METAL DECK - MONO OR DUAL SLOPE - 24' x 40'	S-2.12	ROOF FRAMING PLAN - 0.030' - DUAL SLOPE
A-3.13	ROOF PLAN - 0.030' METAL DECK - MONO OR DUAL SLOPE - 36' x 40'	S-2.13	ROOF FRAMING PLAN - PARAPET - DUAL SLOPE
A-3.14	ROOF PLAN - 0.030' METAL DECK - MONO SLOPE - 48' TO 120' x 40'	S-2.50	ROOF FRAMING DETAILS - MONO SLOPE
A-3.21	ROOF PLAN - BUILT UP ROOF - MONO OR DUAL SLOPE - 24' x 40'	S-2.51	ROOF FRAMING DETAILS - DUAL SLOPE
A-3.22	ROOF PLAN - BUILT UP ROOF - MONO OR DUAL SLOPE - 36' x 40'	S-2.60	ROOF FRAMING DETAILS
A-3.23	ROOF PLAN - BUILT UP ROOF - MONO SLOPE - 48' TO 120' x 40'	S-2.70	ROOF FRAMING DETAILS - PARAPET
A-3.24	ROOF PLAN - BUILT UP ROOF - DUAL SLOPE - 48' TO 120' x 40'	S-2.90	ROOF FRAMING DETAILS - TRUSS
A-3.31	ROOF PLAN - PARAPET - MONO OR DUAL SLOPE - 24' x 40'	S-3.01	BUILDING SECTION - MONO SLOPE ROOF
A-3.32	ROOF PLAN - PARAPET - MONO OR DUAL SLOPE - 36' x 40'	S-3.02	BUILDING SECTION - DUAL SLOPE ROOF
A-3.33	ROOF PLAN - PARAPET - MONO SLOPE - 48' TO 120' x 40'	S-3.03	BUILDING SECTION - 0.030' MONO SLOPE ROOF
A-3.34	ROOF PLAN - PARAPET - DUAL SLOPE - 48' TO 120' x 40'	S-3.04	BUILDING SECTION - 0.030' DUAL SLOPE ROOF
A-3.41	ROOF PLAN - TPO - MONO OR DUAL SLOPE - 24' x 40'	S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
A-3.42	ROOF PLAN - TPO - MONO OR DUAL SLOPE - 36' x 40'	S-5.10	WALL FRAMING DETAILS - WOOD STUDS
A-3.43	ROOF PLAN - TPO - MONO SLOPE - 48' TO 120' x 40'	S-5.11	WALL FRAMING DETAILS - WOOD STUDS
A-3.44	ROOF PLAN - TPO - DUAL SLOPE - 48' TO 120' x 40'	S-5.20	WALL FRAMING ELEVATIONS - STEEL STUDS
A-5.00	ROOF DETAILS - 0.018' STANDING SEAM ROOF DECK	S-5.30	WALL FRAMING DETAILS - STEEL STUDS
A-5.01	ROOF DETAILS - 0.030' STANDING SEAM ROOF DECK	S-5.31	WALL FRAMING DETAILS - STEEL STUDS
A-5.02	ROOF DETAILS - 0.030' STANDING SEAM ROOF DECK		
A-5.03	ROOF DETAILS - BUILT UP ROOF	SHT NO.	PLUMBING
A-5.04	ROOF DETAILS - PARAPET	P-1.01	PLUMBING DETAILS AND SCHEDULE
A-5.05	ROOF DETAILS - TPO ROOF		
A-5			
A-4.01	EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 24' x 40'	SHT NO.	MECHANICAL
A-4.02	EXTERIOR ELEVATIONS - MONO SLOPE - 36' x 40'	M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
A-4.03	EXTERIOR ELEVATIONS - DUAL SLOPE - 36' x 40'	M-1.01	MECHANICAL PLAN - WALL MOUNT - 24' x 40'
A-4.04	EXTERIOR ELEVATIONS - MONO SLOPE - 48' TO 120' x 40'	M-1.02	MECHANICAL PLAN - WALL MOUNT - 36' x 40'
A-4.05	EXTERIOR ELEVATIONS - DUAL SLOPE - 48' TO 120' x 40'	M-1.03	MECHANICAL PLAN - WALL MOUNT - 48' TO 120' x 40'
A-4.21	EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 24' x 40' (PARAPET)	M-2.01	MECHANICAL PLAN - ROOF MOUNT - 24' x 40'
A-4.22	EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 36' x 40' (PARAPET)	M-2.02	MECHANICAL PLAN - ROOF MOUNT - 36' x 40'
A-4.23	EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 48' TO 120' x 40' (PARAPET)	M-3.01	MECHANICAL PLAN - ROOF MOUNT - 36' x 40'
A-5.01	CROSS SECTION - MONO SLOPE - 0.018' B.U. OR TPO ROOF DECK OR PARAPET	M-3.02	MECHANICAL ROOF PLAN - ROOF MOUNT - 36' x 40'
A-5.02	CROSS SECTION - DUAL SLOPE - 0.018' B.U. OR TPO ROOF DECK OR PARAPET	M-4.01	MECHANICAL PLAN - ROOF MOUNT - 48' TO 120' x 40'
A-5.03	CROSS SECTION - MONO SLOPE - 0.030' ROOF DECK	M-4.02	MECHANICAL ROOF PLAN - ROOF MOUNT - 48' TO 120' x 40'
A-5.04	CROSS SECTION - DUAL SLOPE - 0.030' ROOF DECK		
A-5.05	CROSS SECTION		
A-5.50	ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING	SHT NO.	ELECTRICAL
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER	E-1.01	ELECTRICAL PLAN - 24' x 40'
A-5.52	ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING - 1 HOUR RATED	E-1.02	ELECTRICAL PLAN - 36' x 40'
A-5.53	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED	E-1.03	ELECTRICAL PLAN - 48' TO 120' x 40'
A-5.60	ARCHITECTURAL DETAILS - STEEL STUD - WOOD SIDING		
A-5.61	ARCHITECTURAL DETAILS - STEEL STUD - PLASTER	SHT NO.	RAMP
A-5.62	ARCHITECTURAL DETAILS - STEEL STUD - WOOD SIDING - 1 HOUR RATED	R-1.01	STANDARD RAMP PLAN
A-5.63	ARCHITECTURAL DETAILS - STEEL STUD - PLASTER - 1 HOUR RATED	R-1.02	OFF RAMP PLAN
A-5.64	ARCHITECTURAL DETAILS - 1 HOUR RATED OPTIONS	R-1.03	RAMP LANDING
A-5.70	ARCHITECTURAL DETAILS - FLOOR	R-1.04	STANDARD LANDING WITH STEPS
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS	R-1.05	SWITCHBACK RAMP PLAN
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS	R-2.01	RAMP DETAILS
A-6.01	INTERIOR ELEVATIONS - 24' x 40'	R-3.01	CONCRETE RAMP
A-6.02	INTERIOR ELEVATIONS - 36' x 40'		
A-6.03	INTERIOR ELEVATIONS - 48' TO 120' x 40'	SHT NO.	RELOCATABLE SHEETS
		REL-101	BUILDING RELOCATION DETAILS
		REL-102	BUILDING RELOCATION DETAILS
		SHT NO.	FIRE SPRINKLERS
		FS-1	FIRE SPRINKLER SECTION AND SPECS
		FS-2	TYPICAL FIRE SPRINKLER PLANS - 120' x 40' Bigg's Cove
		FS-3	TYPICAL FIRE SPRINKLER PLANS - 120' x 40' - 1st & 2nd Bedroom
		FS-4	TYPICAL FIRE SPRINKLER PLANS 40 x 24'-84"
		FS-5	FIRE SPRINKLER PLAN 40' x 48' x 100'
		FS-6	FIRE SPRINKLER DETAILS

A-0

DSA-103 rev 12/2013
Statement of Structural Tests & Special Inspections - 2013 CBC
School Name: District:
INCREM # DSA File No.: Application No.:
Date Submitted: Revised:
IMPORTANT: This form is only a summary list of structural tests and special inspections required for the project. The actual tests and inspections must be performed as detailed on the DSA approved documents. The project inspector is responsible for providing inspection of all faces of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, and/or non-structural components, etc. per Title 24, Part 2, Chapter 17A. NOTE: This form is also available for projects submitted for review under the 2007 and 2010 CBC.
INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. An "X" before a listed test or inspection indicates it is a mandatory requirement. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. Note: A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPLETE" button to show only the tests finally selected. For more information on use of this form, see DSA-103.INSTR.
Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.
TEST OR SPECIAL INSPECTION TYPE REQUIRED BY PERMITS PREPARED BY CODE REFERENCE AND NOTES
- SOILS Table 1705A.6
1. GENERAL:
a. Verify that:
- site has been properly prepared prior to placement of controlled fill and/or excavation for foundations.
- foundation excavations are extended to proper depth and have reached proper moisture and
- materials below footings are adequate to achieve the design bearing capacity.
Periodic GE* *By geotechnical engineer or his or her qualified representative.
2. COMPACTED FILLS: Table 1705A.6
a. Perform qualification testing of fill materials. Test Lab* *Under the supervision of the geotechnical engineer.
b. Verify use of proper materials and inspect fill thicknesses, placement, and compaction during placement of fill. Continuous GE* *By geotechnical engineer or his or her qualified representative.
c. Test compaction of fill. Test Lab* *Under the supervision of the geotechnical engineer.
3. DRIVEN DEEP FOUNDATIONS (PILES): Table 1705A.7
4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): Table 1705A.7
5. RETAINING WALLS: Table 1705A.7
6. OTHER SOILS: Table 1705A.7
- CONCRETE Table 1705A.3
7. CAST IN PLACE CONCRETE: Table 1705A.3
a. Verify use of required design mix. Periodic SI & PI* *To be performed by batch-plant special inspector and project inspector.
b. Perform slump, temperature, and (where required) air content tests. Test Lab ASTM C172, ASTM C31.
c. Test concrete (compression) inspection. Test Lab ACI 318 Section 5.6 and 19.5A.1.2 (1913.3.1) ASTM C39.
8. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections):
9. PRECAST CONCRETE (in addition to Cast in Place Concrete tests and inspections):
10. SHOTCRETE (in addition to Cast in Place Concrete tests and inspections):
11. POST-INSTALLED ANCHORS:
a. Inspect installation of post-installed anchors. Continuous SI Test 1705A.3 * May be performed by the project inspector when specifically approved by DSA.
b. Test post-installed anchors. Test Lab 19.5A.7 (1913.2.11).
12. OTHER CONCRETE:
- MASONRY TMS 402-11ACI 530-11AISC 341 Table 1.19.3
- STEEL Table 1705A.2.1
17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES: Table 1705A.2.1
a. Verify that all materials are appropriately marked and that:
- Mill certificates indicate material properties that comply with requirements.
- Material sizes, types and grades comply with requirements.
Periodic - *By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
b. Test underlaid materials. Test Lab 2203A.1 (2203.1), ASTM A330.
c. Examine seam welds of structural tubes and pipes. Periodic SI *DSA IR 17-3.
d. Verify member locations, bracing and all details constructed in the field. Continuous PI
e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop. Periodic SI
f. Inspect welding of stairs and railing systems. Periodic SI* *May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
18. HIGH STRENGTH BOLTS: DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
19. WELDING: DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS. Periodic SI
b. Verify weld filler material manufacturer's certificate of compliance. Periodic SI
c. Verify WPS, welder qualifications and equipment. Periodic SI DSA IR 17-3.
19.1. SHOP WELDING:
a. Inspect groove, multi-pass, and fillet welds > 5/16". Continuous SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
b. Inspect single-pass fillet welds > 5/16". Periodic SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
c. Inspect welding of stairs and railing systems. Periodic SI 1705A.2.2.1 Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
19.2. FIELD WELDING: 1,2
a. Inspect groove, multi-pass, and fillet welds > 5/16". Continuous SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
b. Inspect groove, multi-pass, and fillet welds > 5/16". Periodic SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
c. Inspect welding of stairs and railing systems. Periodic SI* *May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
20. NONDESTRUCTIVE TESTING: 3
a. Ultrasonic. Test Lab AISC 341, App. G 6.2, AWS D1.1, D1.8, ANSI/ASTM CP-189, SNT-TC-1A, -ASTM E543.
b. Magnetic Particle. Test Lab E1444, E1664 - DSA IR 17-2.
21. STEEL JOISTS AND TRUSSES:
a. Verify size, type and grade for all chord and web members as well as connectors and web filler material. Verify joint profile, dimensions and camber (if applicable), verify all weld locations, lengths and profiles, mark or tag each joint. Continuous SI 1705A.2.2.3 AND DSA IR 22-3 for steel joist only; 1705A.2.2.4 for steel trusses.
22. SPRAY APPLIED FIRE-PROOFING:
23. OTHER STEEL:
a. SHOP WELDING OF COLD-FORMED STEEL Periodic SI
b. SHOP WELDING OF COLD-FORMED STEEL Periodic SI
SUMMARY
1. All Structural Testing: Laboratory Verified Report - Form DSA-293
2. All Structural Testing: Laboratory Verified Report - Form DSA-291
3. Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292
4. Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
5. Field Welding Inspection: Special Inspection Verified Report - Form DSA-292
6. Steel Joist Fabrication Inspection: Special Inspection Verified Report - Form DSA-292
NOTE:
THE DIFFERENCE BETWEEN "TESTS" AND "SPECIAL INSPECTIONS" IS ADDRESSED IN IR 17-4.
FOOT NOTES / OPTIONS
1. THIS TEST INSPECTION REQUIREMENT OCCURS AT FIELD WELDING. MOD TO MOD OPTION ONLY. SEE 12/S1.50 OR 12/S1.60
2. THIS TEST INSPECTION REQUIREMENT OCCURS AT FIELD WELDING. BUILDING TO CONCRETE FOUNDATION OPTION ONLY. SEE 2/F1.50 OR 2/F2.50 AND 10/F2.51
3. THIS TEST INSPECTION / IS TBD BY AOR / DSA PER PROJECT SPECIFIC REQUIREMENTS. UT TESTING SHALL BE PERFORMED ON 100% CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEETS S-3.01 THRU S-3.04 HAVE A THICKNESS OF 5/16" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN CJP GROOVE WELDS
CONSTRUCTION OF (Diaphragm material-foundation material)
CONCRETE FLOOR - CONCRETE FOUNDATION

DSA-103 rev 12/2013
Statement of Structural Tests & Special Inspections - 2013 CBC
School Name: District:
INCREM # DSA File No.: Application No.:
Date Submitted: Revised:
IMPORTANT: This form is only a summary list of structural tests and special inspections required for the project. The actual tests and inspections must be performed as detailed on the DSA approved documents. The project inspector is responsible for providing inspection of all faces of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, and/or non-structural components, etc. per Title 24, Part 2, Chapter 17A. NOTE: This form is also available for projects submitted for review under the 2007 and 2010 CBC.
INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. An "X" before a listed test or inspection indicates it is a mandatory requirement. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. Note: A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPLETE" button to show only the tests finally selected. For more information on use of this form, see DSA-103.INSTR.
Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.
TEST OR SPECIAL INSPECTION TYPE REQUIRED BY PERMITS PREPARED BY CODE REFERENCE AND NOTES
- SOILS Table 1705A.6
1. GENERAL:
a. Verify that:
- site has been properly prepared prior to placement of controlled fill and/or excavation for foundations.
- foundation excavations are extended to proper depth and have reached proper moisture and
- materials below footings are adequate to achieve the design bearing capacity.
Periodic GE* *By geotechnical engineer or his or her qualified representative.
2. COMPACTED FILLS: Table 1705A.6
a. Perform qualification testing of fill materials. Test Lab* *Under the supervision of the geotechnical engineer.
b. Verify use of proper materials and inspect fill thicknesses, placement, and compaction during placement of fill. Continuous GE* *By geotechnical engineer or his or her qualified representative.
c. Test compaction of fill. Test Lab* *Under the supervision of the geotechnical engineer.
3. DRIVEN DEEP FOUNDATIONS (PILES): Table 1705A.7
4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): Table 1705A.7
5. RETAINING WALLS: Table 1705A.7
6. OTHER SOILS: Table 1705A.7
- CONCRETE Table 1705A.3
7. CAST IN PLACE CONCRETE: Table 1705A.3
a. Verify use of required design mix. Periodic SI & PI* *To be performed by batch-plant special inspector and project inspector.
b. Perform slump, temperature, and (where required) air content tests. Test Lab ASTM C172, ASTM C31.
c. Test concrete (compression) inspection. Test Lab ACI 318 Section 5.6 and 19.5A.1.2 (1913.3.1) ASTM C39.
8. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections):
9. PRECAST CONCRETE (in addition to Cast in Place Concrete tests and inspections):
10. SHOTCRETE (in addition to Cast in Place Concrete tests and inspections):
11. POST-INSTALLED ANCHORS:
a. Inspect installation of post-installed anchors. Continuous SI Test 1705A.3 * May be performed by the project inspector when specifically approved by DSA.
b. Test post-installed anchors. Test Lab 19.5A.7 (1913.2.11).
12. OTHER CONCRETE:
- MASONRY TMS 402-11ACI 530-11AISC 341 Table 1.19.3
- STEEL Table 1705A.2.1
17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES: Table 1705A.2.1
a. Verify that all materials are appropriately marked and that:
- Mill certificates indicate material properties that comply with requirements.
- Material sizes, types and grades comply with requirements.
Periodic - *By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
b. Test underlaid materials. Test Lab 2203A.1 (2203.1), ASTM A330.
c. Examine seam welds of structural tubes and pipes. Periodic SI *DSA IR 17-3.
d. Verify member locations, bracing and all details constructed in the field. Continuous PI
e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop. Periodic SI
f. Inspect welding of stairs and railing systems. Periodic SI* *May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
18. HIGH STRENGTH BOLTS: DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
19. WELDING: DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS. Periodic SI
b. Verify weld filler material manufacturer's certificate of compliance. Periodic SI
c. Verify WPS, welder qualifications and equipment. Periodic SI DSA IR 17-3.
19.1. SHOP WELDING:
a. Inspect groove, multi-pass, and fillet welds > 5/16". Continuous SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
b. Inspect single-pass fillet welds > 5/16". Periodic SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
c. Inspect welding of stairs and railing systems. Periodic SI 1705A.2.2.1 Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
19.2. FIELD WELDING: 1,2
a. Inspect groove, multi-pass, and fillet welds > 5/16". Continuous SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
b. Inspect groove, multi-pass, and fillet welds > 5/16". Periodic SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
c. Inspect welding of stairs and railing systems. Periodic SI* *May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
20. NONDESTRUCTIVE TESTING: 3
a. Ultrasonic. Test Lab AISC 341, App. G 6.2, AWS D1.1, D1.8, ANSI/ASTM CP-189, SNT-TC-1A, -ASTM E543.
b. Magnetic Particle. Test Lab E1444, E1664 - DSA IR 17-2.
21. STEEL JOISTS AND TRUSSES:
a. Verify size, type and grade for all chord and web members as well as connectors and web filler material. Verify joint profile, dimensions and camber (if applicable), verify all weld locations, lengths and profiles, mark or tag each joint. Continuous SI 1705A.2.2.3 AND DSA IR 22-3 for steel joist only; 1705A.2.2.4 for steel trusses.
22. SPRAY APPLIED FIRE-PROOFING:
23. OTHER STEEL:
a. SHOP WELDING OF COLD-FORMED STEEL Periodic SI
b. SHOP WELDING OF COLD-FORMED STEEL Periodic SI
SUMMARY
1. All Structural Testing: Laboratory Verified Report - Form DSA-293
2. All Structural Testing: Laboratory Verified Report - Form DSA-291
3. Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292
4. Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
5. Field Welding Inspection: Special Inspection Verified Report - Form DSA-292
6. Steel Joist Fabrication Inspection: Special Inspection Verified Report - Form DSA-292
NOTE:
THE DIFFERENCE BETWEEN "TESTS" AND "SPECIAL INSPECTIONS" IS ADDRESSED IN IR 17-4.
FOOT NOTES / OPTIONS
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CONSTRUCTION OF (Diaphragm material-foundation material)
PLYWOOD FLOOR - CONCRETE FOUNDATION

DSA-103 rev 12/2013
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b. Test underlaid materials. Test Lab 2203A.1 (2203.1), ASTM A330.
c. Examine seam welds of structural tubes and pipes. Periodic SI *DSA IR 17-3.
d. Verify member locations, bracing and all details constructed in the field. Continuous PI
e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop. Periodic SI
f. Inspect welding of stairs and railing systems. Periodic SI* *May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
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a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS. Periodic SI
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c. Verify WPS, welder qualifications and equipment. Periodic SI DSA IR 17-3.
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b. Inspect single-pass fillet welds > 5/16". Periodic SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
c. Inspect welding of stairs and railing systems. Periodic SI 1705A.2.2.1 Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
19.2. FIELD WELDING: 1,2
a. Inspect groove, multi-pass, and fillet welds > 5/16". Continuous SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
b. Inspect groove, multi-pass, and fillet welds > 5/16". Periodic SI Per AISC 360 (and AISC 341 as applicable), DSA IR 17-3.
c. Inspect welding of stairs and railing systems. Periodic SI* *May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3.
20. NONDESTRUCTIVE TESTING: 3
a. Ultrasonic. Test Lab AISC 341, App. G 6.2, AWS D1.1, D1.8, ANSI/ASTM CP-189, SNT-TC-1A, -ASTM E543.
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a. Verify size, type and grade for all chord and web members as well as connectors and web filler material. Verify joint profile, dimensions and camber (if applicable), verify all weld locations, lengths and profiles, mark or tag each joint. Continuous SI 1705A.2.2.3 AND DSA IR 22-3 for steel joist only; 1705A.2.2.4 for steel trusses.
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CONSTRUCTION OF (Diaphragm material-foundation material)
PLYWOOD FLOOR - WOOD FOUNDATION

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PHONE: 951-943-5393 FAX: 951-943-2211
PROJECT NAME: PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING
SHEET TITLE: T & I FORMS
ARCHITECT OF RECORD SUBMISSION DATE
PROJECT SPECIFIC STATE AGENCY APPROVAL
ORIGINAL PC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114027
AC 04-114027
DATE APR 17 2013
REVISIONS
SILVER CREEK INDUSTRIES
24" x 40" PC (HIGH SEISMIC)
PROJECT NO.
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14
P.C. SHEET NUMBER
A-0A

REFLECTED CEILING NOTES

METAL SUSPENSION FOR LAY-IN PANEL CEILING:

A. 12GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO THE INCLUDING 4'-0" X 4'-0" GRID SPACING. ALONG MAIN RUNNERS, SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.

B. PROVIDE 12GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN & CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.

C. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT THE CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 PLUMB ARE TO HAVE COUNTER SLOPING WIRES.

D. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4" CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYS. RUNNERS, THE MAIN AND CROSS RUNNERS SHOULD BE FREE & A MIN. OF 3/4" CLEAR OF WALL.

E. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 6" OR LESS, THIS INTERLOCK IS NOT REQ'D.

F. PROVIDE BRACING ASSEMBLY CONSISTING OF A COMPRESSION STRUT (COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB) AND (4) 12GA. SPLAYED WIRES ORIENTED 90° FROM EA. OTHER AT THE FOLLOWING SPACING:

(A) PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 8'-0" X 8'-0" ON CENTER.

(B) PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EA. PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45° FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.

G. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2). FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

H. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNRAISED DUCTS, PIPES, CONDUITS, ETC. HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. SEE FIGURE 2A, DETAIL F OF DSA R 25-2.10. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.

I. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES. ATTACH ALL LIGHT FIXTURES CEILING MOUNTED AIR TERMINALS AND ALL OTHER DEVICES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES, SCREWS OR APPROVED FASTENERS ARE REQUIRED. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE PER ASTM E580 SECTION 5.3.1. RECESSED OR DROP-IN LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES BE SUPPORTED DIRECTLY ON RUNNERS CLASSIFIED AS ASTM HEAVY DUTY, BUT THEY MUST ALSO HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.

J. ALL PLUMB OR RECESSED LIGHT FIXTURES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING 50 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

K. ALL 4 R. X 4 L. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER. SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 R. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

L. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CABLES OR SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY PER FIGURE 1, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE CEILING. THE BRACING ASSEMBLY IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING. I.E. AIRDRAFT CABLES TO WALLS, THEN BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING. SEE R 16-9 FOR ADDITIONAL REQUIREMENT FOR PENDANT MOUNTED FIXTURES.

M. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, SPEAKERS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 7.1 OF DSA R 25-2.10. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THEN 20 LBS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3 OF DSA R 25-2.10.

N. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580 SECTION 5.2.8.6, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER.

O. CLASSIFICATION OF CEILING GRID: CLASSIFICATION OF CEILING GRID SHALL BE "HEAVY DUTY" MAIN RUNNER: 7501 4" CROSS TEE: XL704 2" CROSS TEE: XL7328 2" WALL ANGLE: 7810 ARMSTRONG PER ASTM C885 AND C896 PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2". ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 75-200; SMOKE-DEVELOPED 0-400.

P. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED IN ACCORDANCE WITH DSA R 25-2.10 SECTION 8, FIGURE 7, DETAIL A TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQUARE FEET. ALTERNATIVELY, COMPLY WITH ASTM E580-08 SECTION 5.2.9 - SEE 20A-2.20

NOTE FOR FIRE BLK CONSTRUCTION: SECTION 718 PER CBC SECTION 718.1, FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTIS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES (SECTION 718.1.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX. FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS.

DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.

HANGER WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTER SLOPING WIRES.

SIGNAGE TEMPLATES

COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET.

TACTILE EXIT SIGNS

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.774 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE (SEE NOTE 5 BELOW).

2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HEIGHT BASED ON THE HEIGHT OF THE UPPERCASE "I".

3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703.5.1 / 11B-703.5.2 / 11B-703.7.1.

4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 80% MIN. AND 110% MAX. AND A STROKE-TO-HEIGHT RATIO OF BETWEEN 10% MIN. AND 20% MAX. OF THE CHARACTER HEIGHT. 11B-703.2.4, 11B-703.2.5, 11B-703.5.7.

ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPE STYLE TO TEST, BEGIN BY PRINTING THE LETTERS "O", AND "I" AT 1 INCH HIGH. PLACE THE TEMPLATES 110% SQUARE OVER "O". IF THE CHARACTER IS NOT WIDER THAN 110% SQUARE, NOR NARROWER THAN THE 80% RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 20% RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD, AND THE 10% RECTANGLE TO SEE IF ITS IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPE STYLE IS COMPLIANT WITH PROPORTION CODE.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

CHARACTER WIDTH: 110% MAX. 80% MIN. STROKE WIDTH: 20% MAX. 10% MIN.

5. BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 mm) SPACE BETWEEN CELLS. MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 mm) ABOVE THE BACKGROUND. 11B-703.3 / 11B-703.3.1.

BRAILLE CELL: Inter-cell Spacing = .20"

BRAILLE DOT: Rounded dot (Acceptable) NO Square dot (Not Acceptable)

REQUIRED ROUNDED OR DOMED CALIFORNIA BRAILLED DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

EXAMPLE OF HOW TO DEMONSTRATE FONT TO BE USED

CHARACTER PROPORTIONS: 110% MAX. 80% MIN. STROKE THICKNESS: 20% MAX. 10% MIN.

WIDTH-TO-HEIGHT PROPORTIONS TEMPLATE: 210" SPACE BETWEEN CELLS (LETTERS)

CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

BRAILLE SPACING TEMPLATE PER TITLE 24

ROOM IDENTIFICATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET.

THIS DETAIL FOR REFERENCE ONLY

SYMBOLS LEGEND

DETAIL NUMBER: 1

SHEET NUMBER: 1

ELEVATION VIEW: 1

EXTERIOR ELEVATION

SHEET NUMBER: 1

ELEVATION VIEW: 1

DRAWING NUMBER: 1

INTERIOR ELEVATION

SHEET NUMBER: 1

SECTION NUMBER: 1

CROSS SECTION

SHEET NUMBER: 1

DOOR TYPE: 1

WINDOW TYPE: 1

PLUMBING FIXTURE: 1

REVISION TO ORIGINAL DRAWING: 1

NOTE: 11B-703.2.4 / 11B-703.2.5 PROPORTIONS: VISUAL CHARACTERISTICS ON SIGN SHALL BE SELECTED FROM POINTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 80 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

ABBREVIATIONS

AB	ABSOLUTE	FA	FIRE ALARM	E OR FL	PLATE
ABS	ABOVE	FCO	FLOOR CLEAN OUT	PC	PRE-CHECKED
ABV	ABOVE	FG	FINISH GRADE	PLAS	PLASTER
ACC	ACCESS	FIN	FINISH	PLYWD	PLYWOOD
ADDL	ADDITIONAL	FLN	FLOOR FINISH	PNL	PANEL
ADJ	ADJACENT	FLR	FLOOR FINISH	PNT	PAINT
AFF	ABOVE FINISH FLOOR	FN	FIELD NAILING	PCC	POINT OF CONNECTION
AFG	ABOVE FINISH GRADE	FND	FOUNDATION	POT	PATH OF TRAVEL
ACC	ABOVE GRADE CONCRETE	FOC	FACE OF CONCRETE	PSF	POUNDS PER SQUARE FOOT
ALT	ALTERNATE	FOS	FACE OF STUD	PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECT OF RECORD	FTG	FOOTING	PT	PRESSURE TREATED
ARCH	ARCHITECTURAL / ARCHITECT	FOF	FACE OF FINISH	RAG	RETURN AIR GRILLE
BD	BOARD	GA	GAUGE	RD	ROOF DRAIN
BGC	BELOW GRADE CONCRETE	GALV	GALVANIZED	REF	REFERENCE
BLDG	BUILDING	GC	GENERAL CONTRACTOR	REG	REGISTER
BLK	BLOCK	GR	GRADE	REIN	REINFORCE
BLKG	BLOCKING	GYP	GYPSUM BOARD	REQ'D	REQUIRED
BM	BEAM	GYP BD	GYPSUM BOARD	REV	REVISION
BOT	BOTTOM	HB	HOSE BIBB	RF	ROOF
BTWN	BETWEEN	HD	HEAVY DUTY	RM	ROOM
BU	BUILT UP	HC	HEAD	RO	ROUGH OPENING
CAB	CABINET	HOW	HARDWARE	ROH	ROOF OVERHANG
CBC	CALIFORNIA BUILDING CODE	HF	HEM FIR	SCHED	SCHEDULE
CB	CAST IRON	HF	HORIZONTAL	SEC	SECTION
CJO	CONTROL JOINT	HT	HEIGHT	SHT	SHEET
CJP	COMPLETE JOINT	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	SHT	TOP OF STEEL
CL	CENTER LINE	INCL	INCLUDED	SIM	SIMILAR
CLG	CEILING	INCL	INCLUDED	SPEC	SPECIFICATION
CLG	CLEAN OUT	INFO	INFORMATION	SST	STAINLESS STEEL
CLG	COLUMN	INT	INTERIOR	STD	STANDARD
CONC	CONCRETE	J-BOX	JUNCTION BOX	STL	STEEL
CONN	CONNECTION	JOINT	JOINT	STS	SELF-TAPPING SCREW
CONC	CONSTRUCTION	JOINT	JOINT	STMS	SELF-TAPPING SHEET METAL SCREW
CONT	CONTINUOUS	LAB	LABORATORY	T&B	TOP AND BOTTOM
CPT	CARPET	LAM	LAMINATED	T&B	TONGUE AND GROOVE
CTR	CENTER	LAV	LAVATORY	TEL	TELEPHONE
DBL	DOUBLE	LB	LIGHT	THK	THICK
DET	DETAIL	LT	LIGHT	TOC	TOP OF COLUMN
DIA OR Ø	DIAMETER	LT WT	LIGHT WEIGHT	TS	TELEVISION
DIAG	DIAGONAL	LVR	LOUVER	TYP	TYPICAL
DIMENSION	DIMENSION	MAX	MAXIMUM	UBC	UNIFORM BUILDING CODE
DSA	DIVISION OF THE STATE ARCHITECT	MB	MACHINE BOLT	UN	UNLESS OTHERWISE NOTED
ELEV	ELEVATION	ME	MEDIUM	UR	URINAL
EQ	EQUIPMENT	MFR	MANUFACTURER	VERT	VERTICAL
EQUIP	EQUIPMENT	MIN	MISCELLANEOUS	VTC	VINT COMPOSITION TILE
EXT	EXTERIOR	MISC	MISCELLANEOUS	W	WITH
EXT	EXTERIOR	MOD	MODULE	WC	WATER CLOSET
EXT	EXTERIOR	MTL	METAL	WC	WATER CLOSET
EXT	EXTERIOR	N	NEW	WD	WOOD
EXT	EXTERIOR	N	NORTH	WH	WATER HEATER
EXT	EXTERIOR	N	NOT IN CONTRACT	WIC	WOODWORK INSTITUTE OF CALIFORNIA
EXT	EXTERIOR	N	NOT IN SILVER CREEKS SCOPE OF WORK	WIC	WOODWORK INSTITUTE OF CALIFORNIA
EXT	EXTERIOR	N	NOT TO SCALE	WND	WINDOW
EXT	EXTERIOR	N	ON CENTER	WP	WATER PROOF
EXT	EXTERIOR	N	OUTSIDE DIAMETER		
EXT	EXTERIOR	N	OPPOSITE HAND		
EXT	EXTERIOR	N	OPENING		
EXT	EXTERIOR	N	OPPOSITE		

SPECIFICATIONS

DIVISION 5 - METALS

05720 RAILINGS AND HANDRAILS:

ALL WELDED JOINTS AND SURFACES SHALL BE GROUND SMOOTH. NO SHARP OR ABRASIVE CORNERS. EDGES OR SURFACES, WALL SURFACES ADJACENT TO HANDRAIL SHALL BE SMOOTH.

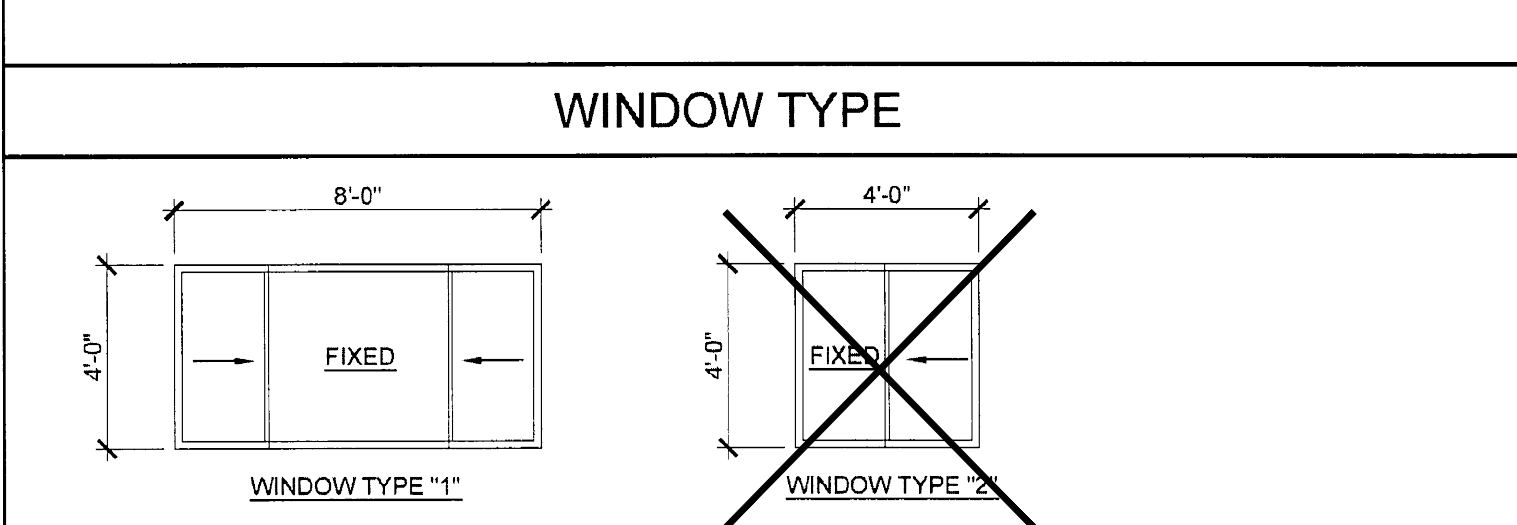
DIVISION 5 - DOORS

05700 DOOR HARDWARE:

IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 1" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR. 11B-404.2.7 / 11B-404.2.7.1 / 11B-404.2.7.2 / 11B-404.2.7.3 / 11B-404.2.7.4 / 11B-404.2.7.5 / 11B-404.2.7.6 / 11B-404.2.7.7 / 11B-404.2.7.8 / 11B-404.2.7.9 / 11B-404.2.7.10 / 11B-404.2.7.11 / 11B-404.2.7.12 / 11B-404.2.7.13 / 11B-404.2.7.14 / 11B-404.2.7.15 / 11B-404.2.7.16 / 11B-404.2.7.17 / 11B-404.2.7.18 / 11B-404.2.7.19 / 11B-404.2.7.20 / 11B-404.2.7.21 / 11B-404.2.7.22 / 11B-404.2.7.23 / 11B-404.2.7.24 / 11B-404.2.7.25 / 11B-404.2.7.26 / 11B-404.2.7.27 / 11B-404.2.7.28 / 11B-404.2.7.29 / 11B-404.2.7.30 / 11B-404.2.7.31 / 11B-404.2.7.32 / 11B-404.2.7.33 / 11B-404.2.7.34 / 11B-404.2.7.35 / 11B-404.2.7.36 / 11B-404.2.7.37 / 11B-404.2.7.38 / 11B-404.2.7.39 / 11B-404.2.7.40 / 11B-404.2.7.41 / 11B-404.2.7.42 / 11B-404.2.7.43 / 11B-404.2.7.44 / 11B-404.2.7.45 / 11B-404.2.7.46 / 11B-404.2.7.47 / 11B-404.2.7.48 / 11B-404.2.7.49 / 11B-404.2.7.50 / 11B-404.2.7.51 / 11B-404.2.7.52 / 11B-404.2.7.53 / 11B-404.2.7.54 / 11B-404.2.7.55 / 11B-404.2.7.56 / 11B-404.2.7.57 / 11B-404.2.7.58 / 11B-404.2.7.59 / 11B-404.2.7.60 / 11B-404.2.7.61 / 11B-404.2.7.62 / 11B-404.2.7.63 / 11B-404.2.7.64 / 11B-404.2.7.65 / 11B-404.2.7.66 / 11B-404.2.7.67 / 11B-404.2.7.68 / 11B-404.2.7.69 / 11B-404.2.7.70 / 11B-404.2.7.71 / 11B-404.2.7.72 / 11B-404.2.7.73 / 11B-404.2.7.74 / 11B-404.2.7.75 / 11B-404.2.7.76 / 11B-404.2.7.77 / 11B-404.2.7.78 / 11B-404.2.7.79 / 11B-404.2.7.80 / 11B-404.2.7.81 / 11B-404.2.7.82 / 11B-404.2.7.83 / 11B-404.2.7.84 / 11B-404.2.7.85 / 11B-404.2.7.86 / 11B-404.2.7.87 / 11B-404.2.7.88 / 11B-404.2.7.89 / 11B-404.2.7.90 / 11B-404.2.7.91 / 11B-404.2.7.92 / 11B-404.2.7.93 / 11B-404.2.7.94 / 11B-404.2.7.95 / 11B-404.2.7.96 / 11B-404.2.7.97 / 11B-404.2.7.98 / 11B-404.2.7.99 / 11B-404.2.7.100 / 11B-404.2.7.101 / 11B-404.2.7.102 / 11B-404.2.7.103 / 11B-404.2.7.104 / 11B-404.2.7.105 / 11B-404.2.7.106 / 11B-404.2.7.107 / 11B-404.2.7.108 / 11B-404.2.7.109 / 11B-404.2.7.110 / 11B-404.2.7.111 / 11B-404.2.7.112 / 11B-404.2.7.113 / 11B-404.2.7.114 / 11B-404.2.7.115 / 11B-404.2.7.116 / 11B-404.2.7.117 / 11B-404.2.7.118 / 11B-404.2.7.119 / 11B-404.2.7.120 / 11B-404.2.7.121 / 11B-404.2.7.122 / 11B-404.2.7.123 / 11B-404.2.7.124 / 11B-404.2.7.125 / 11B-404.2.7.126 / 11B-404.2.7.127 / 11B-404.2.7.128 / 11B-404.2.7.129 / 11B-404.2.7.130 / 11B-404.2.7.131 / 11B-404.2.7.132 / 11B-404.2.7.133 / 11B-404.2.7.134 / 11B-404.2.7.135 / 11B-404.2.7.136 / 11B-404.2.7.137 / 11B-404.2.7.138 / 11B-404.2.7.139 / 11B-404.2.7.140 / 11B-404.2.7.141 / 11B-404.2.7.142 / 11B-404.2.7.143 / 11B-404.2.7.144 / 11B-404.2.7.145 / 11B-404.2.7.146 / 11B-404.2.7.147 / 11B-404.2.7.148 / 11B-404.2.7.149 / 11B-404.2.7.150 / 11B-404.2.7.151 / 11B-404.2.7.152 / 11B-404.2.7.153 / 11B-404.2.7.154 / 11B-404.2.7.155 / 11B-404.2.7.156 / 11B-404.2.7.157 / 11B-404.2.7.158 / 11B-404.2.7.159 / 11B-404.2.7.160 / 11B-404.2.7.161 / 11B-404.2.7.162 / 11B-404.2.7.163 / 11B-404.2.7.164 / 11B-404.2.7.165 / 11B-404.2.7.166 / 11B-404.2.7.167 / 11B-404.2.7.168 / 11B-404.2.7.169 / 11B-404.2.7.170 / 11B-404.2.7.171 / 11B-404.2.7.172 / 11B-404.2.7.173 / 11B-404.2.7.174 / 11B-404.2.7.175 / 11B-404.2.7.176 / 11B-404.2.7.177 / 11B-404.2.7.178 / 11B-404.2.7.179 / 11B-404.2.7.180 / 11B-404.2.7.181 / 11B-404.2.7.182 / 11B-404.2.7.183 / 11B-404.2.7.184 / 11B-404.2.7.185 / 11B-404.2.7.186 / 11B-404.2.7.187 / 11B-404.2.7.188 / 11B-404.2.7.189 / 11B-404.2.7.190 / 11B-404.2.7.191 / 11B-404.2.7.192 / 11B-404.2.7.193 / 11B-404.2.7.194 / 11B-404.2.7.195 / 11B-404.2.7.196 / 11B-404.2.7.197 / 11B-404.2.7.198 / 11B-404.2.7.199 / 11B-404.2.7.200 / 11B-404.2.7.201 / 11B-404.2.7.202 / 11B-404.2.7.203 / 11B-404.2.7.204 / 11B-404.2.7.205 / 11B-404.2.7.206 / 11B-404.2.7.207 / 11B-404.2.7.208 / 11B-404.2.7.209 / 11B-404.2.7.210 / 11B-404.2.7.211 / 11B-404.2.7.212 / 11B-404.2.7.213 / 11B-404.2.7.214 / 11B-404.2.7.215 / 11B-404.2.7.216 / 11B-404.2.7.217 / 11B-404.2.7.218 / 11B-404.2.7.219 / 11B-404.2.7.220 / 11B-404.2.7.221 / 11B-404.2.7.222 / 11B-404.2.7.223 / 11B-404.2.7.224 / 11B-404.2.7.225 / 11B-404.2.7.226 / 11B-404.2.7.227 / 11B-404.2.7.228 / 11B-404.2.7.229 / 11B-404.2.7.230 / 11B-404.2.7.231 / 11B-404.2.7.232 / 11B-404.2.7.233 / 11B-404.2.7.234 / 11B-404.2.7.235 / 11B-404.2.7.236 / 11B-404.2.7.237 / 11B-404.2.7.238 / 11B-404.2.7.239 / 11B-404.2.7.240 / 11B-404.2.7.241 / 11B-404.2.7.242 / 11B-404.2.7.243 / 11B-404.2.7.244 / 11B-404.2.7.245 / 11B-404.2.7.246 / 11B-404.2.7.247 / 11B-404.2.7.248 / 11B-404.2.7.249 / 11B-404.2.7.250 / 11B-404.2.7.251 / 11B-404.2.7.252 / 11B-404.2.7.253 / 11B-404.2.7.254 / 11B-404.2.7.255 / 11B-404.2.7.256 / 11B-404.2.7.257 / 11B-404.2.7.258 / 11B-404.2.7.259 / 11B-404.2.7.260 / 11B-404.2.7.261 / 11B-404.2.7.262 / 11B-404.2.7.263 / 11B-404.2.7.264 / 11B-404.2.7.265 / 11B-404.2.7.266 / 11B-404.2.7.267 / 11B-404.2.7.268 / 11B-404.2.7.269 / 11B-404.2.7.270 / 11B-404.2.7.271 / 11B-404.2.7.272 / 11B-404.2.7.273 / 11B-404.2.7.274 / 11B-404.2.7.275 / 11B-404.2.7.276 / 11B-404.2.7.277 / 11B-404.2.7.278 / 11B-404.2.7.279 / 11B-404.2.7.280 / 11B-404.2.7.281 / 11B-404.2.7.282 / 11B-404.2.7.283 / 11B-404.2.7.284 / 11B-404.2.7.285 / 11B-404.2.7.286 / 11B-404.2.7.287 / 11B-404.2.7.288 / 11B-404.2.7.289 / 11B-404.2.7.290 / 11B-404.2.7.291 / 11B-404.2.7.292 / 11B-404.2.7.293 / 11B-404.2.7.294 / 11B-404.2.7.295 / 11B-404.2.7.296 / 11B-404.2.7.297 / 11B-404.2.7.298 / 11B-404.2.7.299 / 11B-404.2.7.300 / 11B-404.2.7.301 / 11B-404.2.7.302 / 11B-404.2.7.303 / 11B-404.2.7.304 / 11B-404.2.7.305 / 11B-404.2.7.306 / 11B-404.2.7.307 / 11B-404.2.7.308 / 11B-404.2.7.309 / 11B-404.2.7.310 / 11B-404.2.7.311 / 11B-404.2.7.312 / 11B-404.2.7.313 / 11B-404.2.7.314 / 11B-404.2.7.315 / 11B-404.2.7.316 / 11B-404.2.7.317 / 11B-404.2.7.318 / 11B-404.2.7.319 / 11B-404.2.7.320 / 11B-404.2.7.321 / 11B-404.2.7.322 / 11B-404.2.7.323 / 11B-404.2.7.324 / 11B-404.2.7.325 / 11B-404.2.7.32

WINDOW SCHEDULE								
WINDOW NO.	QTY.	TYPE	WIDTH	HEIGHT	FUNCTION	FRAME MATERIAL	GLASS MATERIAL	WALL THICKNESS
A	1	1	8'-0"	4'-0"	XCX	ANOD	DP	
B	3	1	8'-0"	4'-0"	XCX	ANOD	DP	

WINDOW FINISH								
ANOD:	CLEAR ANODIZED ALUMINUM FRAME				DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLAR GRAY - 3/16" ENERGYSHIELD, ALL OPERABLE SASH SHALL HAVE SCREENS (U-FACTOR = .510 MAX, VT = 0.500 MIN., SHGC = .350 MAX, STC = 35 MIN.)			
BRONZ:	BRONZE ANODIZED ALUMINUM FRAME							
PAINT:	PAINTED FRAME							
WF:	16GA WELDED FRAME							
FRW:	FIRE RATED WINDOW							
FRG:	FRAME: MIN 0.048" THICK WELDED FRAME							
	FIRE RATED GLAZING: 1/4" WIRED GLASS, LABELED TO MEET THE REQUIREMENTS FOR A 34 HOUR FIRE WINDOW ASSEMBLY PER CBC SECTION TABLE 715.5							



DOOR SCHEDULE								
DOOR NO.	WIDTH	HEIGHT	DOOR TYPE	QTY.	DOOR MAT/FIN	FRAME SET	HARDWARE	WALL THICKNESS
1	3'-0"	7'-0"	A		HM	KD	HW - 1	5 1/4"
1P	3'-0"	7'-0"	A1		HM	KD	HW - 2	5 1/4"
2	3'-0"	7'-0"	A		SCL	KD	HW - 3	5 1/2"
3	3'-0"	7'-0"	B		HM	KD	HW - 4	4 7/8"
4	3'-0"	7'-0"	B		HM	KD	HW - 5	4 7/8"
4	3'-0"	7'-0"	B		HM	KD	HW - 6	4 7/8"

DOOR MATERIAL AND FINISH ABBREVIATIONS								
HM:	18GA HOLLOW METAL	KD:	KNOCK DOWN FRAME	* EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 0.500 MAX				
WF:	16GA WELDED FRAME	SCL:	SOLID CORE WOOD LEGACY					
AL:	ALUMINUM	HC:	HOLLOW CORE WOOD					
SST:	STAINLESS STEEL	PT:	PAINTED					

DOOR TYPES & NOTES								
DOOR TYPE "A"	DOOR TYPE "A1"	DOOR TYPE "B"	DOOR TYPE "C"					

DOOR TYPES & NOTES								
DOOR TYPE "A"	DOOR TYPE "A1"	DOOR TYPE "B"	DOOR TYPE "C"					

DOOR TYPES & NOTES								
DOOR TYPE "A"	DOOR TYPE "A1"	DOOR TYPE "B"	DOOR TYPE "C"					

DOOR TYPES & NOTES								
DOOR TYPE "A"	DOOR TYPE "A1"	DOOR TYPE "B"	DOOR TYPE "C"					

DOOR TYPES & NOTES								
DOOR TYPE "A"	DOOR TYPE "A1"	DOOR TYPE "B"	DOOR TYPE "C"					

DOOR TYPES & NOTES								
DOOR TYPE "A"	DOOR TYPE "A1"	DOOR TYPE "B"	DOOR TYPE "C"					

DOOR TYPES & NOTES								
DOOR TYPE "A"	DOOR TYPE "A1"	DOOR TYPE "B"	DOOR TYPE "C"					

DOOR TYPES & NOTES								
DOOR TYPE "A"	DOOR TYPE "A1"	DOOR TYPE "B"	DOOR TYPE "C"					

FINISH SCHEDULE										
ROOM NAME	FLOORING	WALL FINISH				CEILING		NOTES		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT		
CLASSROOM 101	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
TOILET 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
GIRLS 104	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
BOYS 105	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 106	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 107	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
PLUMBING CHASE										

FINISH SCHEDULE										
ROOM NAME	FLOORING	WALL FINISH				CEILING		NOTES		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT		
CLASSROOM 101	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
TOILET 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
GIRLS 104	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
BOYS 105	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 106	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 107	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
PLUMBING CHASE										

FINISH SCHEDULE										
ROOM NAME	FLOORING	WALL FINISH				CEILING		NOTES		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT		
CLASSROOM 101	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
TOILET 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
GIRLS 104	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
BOYS 105	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 106	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 107	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
PLUMBING CHASE										

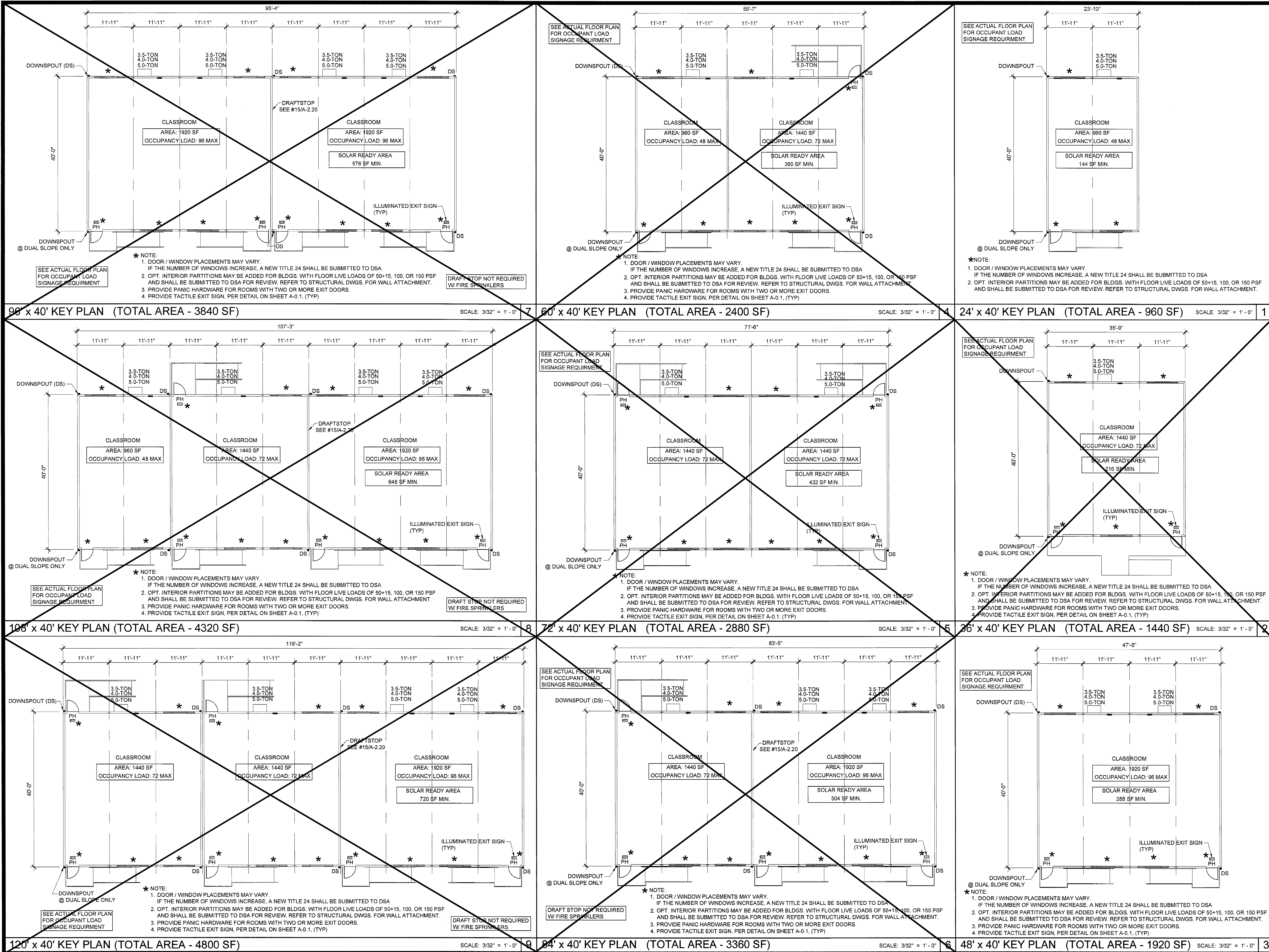
FINISH SCHEDULE										
ROOM NAME	FLOORING	WALL FINISH				CEILING		NOTES		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT		
CLASSROOM 101	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
TOILET 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
GIRLS 104	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
BOYS 105	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 106	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 107	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
PLUMBING CHASE										

FINISH SCHEDULE										
ROOM NAME	FLOORING	WALL FINISH				CEILING		NOTES		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT		
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CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
TOILET 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
GIRLS 104	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
BOYS 105	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 106	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 107	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
PLUMBING CHASE										

FINISH SCHEDULE										
ROOM NAME	FLOORING	WALL FINISH				CEILING		NOTES		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT		
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CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
TOILET 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
GIRLS 104	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
BOYS 105	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 106	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
STAFF 107	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
PLUMBING CHASE										

FINISH SCHEDULE										
ROOM NAME	FLOORING	WALL FINISH				CEILING		NOTES		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT		
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CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"		
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STAFF 107	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-6"		
PLUMBING CHASE										

CLASSROOM -		EXTERIOR DOOR HW-1	
LOCKSET	SCHLAGE N075PDRH0628 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER B01191 4 1/2" x 4 1/2" NRP	Finish 26D	or equal
CLOSER	NORTON 8501 BFDA	Finish 689	or equal
WEATHER STRIP	HAGER 801SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal



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SILVER CREEK INDUSTRIES, INC.

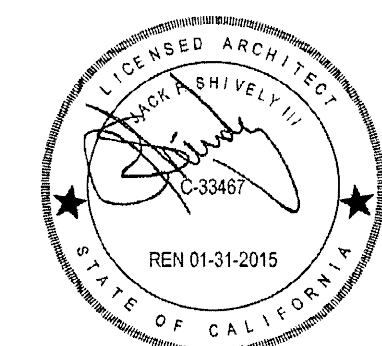


2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:

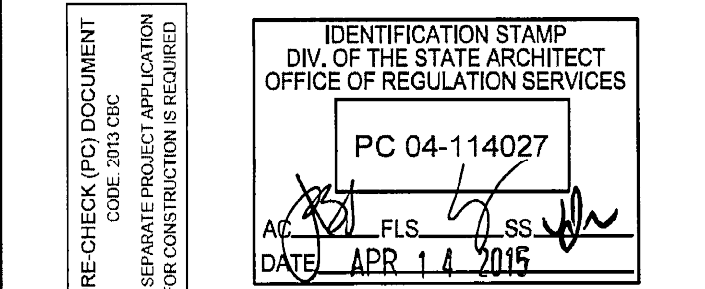
TYPICAL KEY PLANS
24' - 120' x 40'



ARCHITECT OF RECORD
SUBMISSION DATE:

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

P.C. SHEET NUMBER

A-0.3

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance Report Version: PRD1-06032014-687 Report Generated at: 2014-12-31 10:11:2

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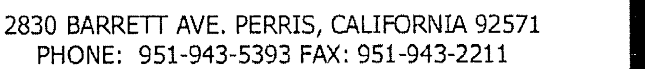
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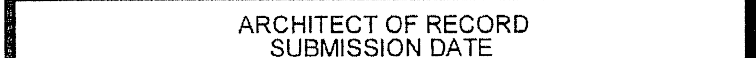
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LIVER CREEK INDUSTRIES, INC.



SHEET TITLE:

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1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

[illegible]

1 REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

P.C. SHEET NUMBER

A-0.5B

Digitally signed by Lydia Barron
DN: stn=California, ln=Sacramento, ou=California
Department of General Services, ou=Division
of the State Architect, ou=[www.version.com/
repositories/CPS](http://www.version.com/repositories/CPS) Incorp. by Ref., u=LJAB.LTD(c199,
title=Architectural Associate, cn=Lydia Barron,
email=lydia.barron@dgs.ca.gov
Date: 2015.02.26 15:23:25 -0800

Lydia
Barron

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD									
Project Name: 34 + 4531 PC				Calculation Date/Time:			Input File Name:		
Compliance Scope: New Complete Building including Envelope, Lighting and HVAC				Report File Name:			Page 1 of 6		
01	Project Address	01	21	Compliance Software	01	21	01	01	01
02	City	02	22	Compliance Method Version	02	22	02	02	02
03	Site Name	03	23	Compliance Method Version	03	23	03	03	03
04	Climate Zone	04	24	Building Type	04	24	04	04	04
05	Building Floor Construction	05	25	Construction Type	05	25	05	05	05
06	Number of Floors	06	26	North Wall Area (SQ)	06	26	06	06	06
07	Number of Floors	07	27	East Wall Area (SQ)	07	27	07	07	07
08	Number of Floors	08	28	South Wall Area (SQ)	08	28	08	08	08
09	Total Conditioned Floor Area (SQ)	09	29	West Wall Area (SQ)	09	29	09	09	09
10	Total Conditioned Floor Area (SQ)	10	30	Roof Area (SQ)	10	30	10	10	10
11	Additional Conditioned Floor Area (SQ)	11	31	North Glazing Area (SQ)	11	31	11	11	11
12	Additional Unconditioned Floor Area (SQ)	12	32	East Glazing Area (SQ)	12	32	12	12	12
13	Number of Thermal Zones	13	33	South Glazing Area (SQ)	13	33	13	13	13
14	Number of Thermal Zones	14	34	West Glazing Area (SQ)	14	34	14	14	14
15	Number of Air Systems	15	35	Roof Glazing Area (SQ)	15	35	15	15	15
16	Number of Air Systems	16	36	Roof Area (SQ)	16	36	16	16	16
17	Number of Thermal Units	17	37	Roof Area (SQ)	17	37	17	17	17
18		18	38	Roof Area (SQ)	18	38	18	18	18
19		19	39	Roof Area (SQ)	19	39	19	19	19
20		20	40	Roof Area (SQ)	20	40	20	20	20

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance Report Version: 1903-0002034-007 Report Generated at: 2014-12-10 10:07:43

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD										NRCC-PRF-01
Project Name: 24 + 40 SO PC					Calculation Date/Time:			Page 5 of 6		
Compliance Scope: New Complete Building including Envelope, Lighting and HVAC					Input File Name:					
Not Applicable.										

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance Report Version: 1903-0002034-007 Report Generated at: 2014-12-10 10:07:43

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD									
Project Name: 34 + 4531 PC				Calculation Date/Time:			Input File Name:		
Compliance Scope: New Complete Building including Envelope, Lighting and HVAC				Report File Name:			Page 3 of 6		
01	Project Address	01	21	Compliance Software	01	21	01	01	01
02	City	02	22	Compliance Method Version	02	22	02	02	02
03	Site Name	03	23	Compliance Method Version	03	23	03	03	03
04	Climate Zone	04	24	Building Type	04	24	04	04	04
05	Building Floor Construction	05	25	Construction Type	05	25	05	05	05
06	Number of Floors	06	26	North Wall Area (SQ)	06	26	06	06	06
07	Number of Floors	07	27	East Wall Area (SQ)	07	27	07	07	07
08	Number of Floors	08	28	South Wall Area (SQ)	08	28	08	08	08
09	Total Conditioned Floor Area (SQ)	09	29	West Wall Area (SQ)	09	29	09	09	09
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13	Number of Thermal Zones	13	33	South Glazing Area (SQ)	13	33	13	13	13
14	Number of Thermal Zones	14	34	West Glazing Area (SQ)	14	34	14	14	14
15	Number of Air Systems	15	35	Roof Glazing Area (SQ)	15	35	15	15	15
16	Number of Air Systems	16	36	Roof Area (SQ)	16	36	16	16	16
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18		18	38	Roof Area (SQ)	18	38	18	18	18
19		19	39	Roof Area (SQ)	19	39	19	19	19
20		20	40	Roof Area (SQ)	20	40	20	20	20

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance Report Version: 1903-0002034-007 Report Generated at: 2014-12-10 10:07:43

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRC-PM-414	
Project Name: 34 + 4531 PC		Calculation Date/Time:	
Compliance Scope: New Complete Building including Envelope, Lighting and HVAC		Input File Name:	
Report File Name:			
Page 4 of 6			
DOCUMENTATION REQUIREMENTS/EXPLANATION			
1. Verify that the building is a new building (construction is complete) is accurate and complete.			
Building Name: 34th Ave - 4531 PC		Compliance Area: Envelope	
Location: 34000 34th Ave SE		City: Seattle	
Customer: 34000 34th Ave - 4531 PC		City: Seattle	
City: Seattle		State: WA	
County: King		Zip: 98148	
RESPONSE/FEATURES CALIBRATION/EXPLANATION			
Response/Feature/Calibration/Explanation: The building is a new building (construction is complete) is accurate and complete.			
1. Verify that the building is a new building (construction is complete) is accurate and complete.			
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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance Report Version: 1903-0002034-007 Report Generated at: 2014-12-10 10:07:43

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD									
Project Name: 34 + 4531 PC				Calculation Date/Time:			Input File Name:		
Compliance Scope: New Complete Building including Envelope, Lighting and HVAC				Report File Name:			Page 5 of 6		
01	Project Address	01	21	Compliance Software	01	21	01	01	01
02	City	02	22	Compliance Method Version	02	22	02	02	02
03	Site Name	03	23	Compliance Method Version	03	23	03	03	03
04	Climate Zone	04	24	Building Type	04	24	04	04	04
05	Building Floor Construction	05	25	Construction Type	05	25	05	05	05
06	Number of Floors	06	26	North Wall Area (SQ)	06	26	06	06	06
07	Number of Floors	07	27	East Wall Area (SQ)	07	27	07	07	07
08	Number of Floors	08	28	South Wall Area (SQ)	08	28	08	08	08
09	Total Conditioned Floor Area (SQ)	09	29	West Wall Area (SQ)	09	29	09	09	09
10	Total Conditioned Floor Area (SQ)	10	30	Roof Area (SQ)	10	30	10	10	10
11	Additional Conditioned Floor Area (SQ)	11	31	North Glazing Area (SQ)	11	31	11	11	11
12	Additional Unconditioned Floor Area (SQ)	12	32	East Glazing Area (SQ)	12	32	12	12	12
13	Number of Thermal Zones	13	33	South Glazing Area (SQ)	13	33	13	13	13
14	Number of Thermal Zones	14	34	West Glazing Area (SQ)	14	34	14	14	14
15	Number of Air Systems	15	35	Roof Glazing Area (SQ)	15	35	15	15	15
16	Number of Air Systems	16	36	Roof Area (SQ)	16	36	16	16	16
17	Number of Thermal Units	17	37	Roof Area (SQ)	17	37	17	17	17
18		18	38	Roof Area (SQ)	18	38	18	18	18
19		19	39	Roof Area (SQ)	19	39	19	19	19
20		20	40	Roof Area (SQ)	20	40	20	20	20

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance Report Version: 1903-0002034-007 Report Generated at: 2014-12-10 10:07:43

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD									
Project Name: 34 + 4531 PC				Calculation Date/Time:			Input File Name:		
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01	Project Address	01	21	Compliance Software	01	21	01	01	01
02	City	02	22	Compliance Method Version	02	22	02	02	02
03	Site Name	03	23	Compliance Method Version	03	23	03	03	03
04	Climate Zone	04	24	Building Type	04	24	04	04	04
05	Building Floor Construction	05	25	Construction Type	05	25	05	05	05
06	Number of Floors	06	26	North Wall Area (SQ)	06	26	06	06	06
07	Number of Floors	07	27	East Wall Area (SQ)	07	27	07	07	07
08	Number of Floors	08	28	South Wall Area (SQ)	08	28	08	08	08
09	Total Conditioned Floor Area (SQ)	09	29	West Wall Area (SQ)	09	29	09	09	09
10	Total Conditioned Floor Area (SQ)	10	30	Roof Area (SQ)	10	30	10	10	10
11	Additional Conditioned Floor Area (SQ)	11	31	North Glazing Area (SQ)	11	31	11	11	11
12	Additional Unconditioned Floor Area (SQ)	12	32	East Glazing Area (SQ)	12	32	12	12	12
13	Number of Thermal Zones	13	33	South Glazing Area (SQ)	13	33	13	13	13
14	Number of Thermal Zones	14	34	West Glazing Area (SQ)	14	34	14	14	14
15	Number of Air Systems	15	35	Roof Glazing Area (SQ)	15	35	15	15	15
16	Number of Air Systems	16	36	Roof Area (SQ)	16	36	16	16	16
17	Number of Thermal Units	17	37	Roof Area (SQ)	17	37	17	17	17
18		18	38	Roof Area (SQ)	18	38	18	18	18
19		19	39	Roof Area (SQ)	19	39	19	19	19
20		20	40	Roof Area (SQ)	20	40	20	20	20

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance Report Version: 1903-0002034-007 Report Generated at: 2014-12-10 10:07:43

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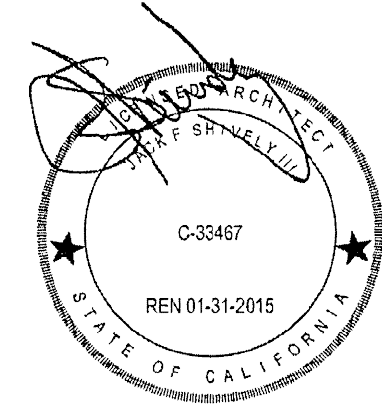
SILVER CREEK INDUSTRIES, INC.



2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

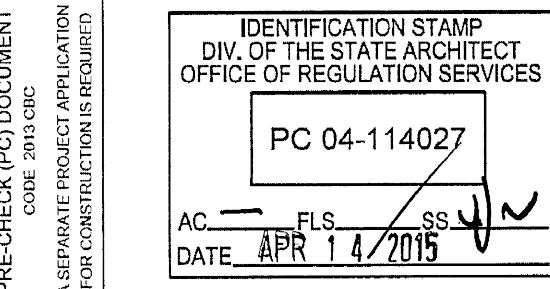
SHEET TITLE:
ENERGY CALC'S.
PRF FORMS
ZONE 16 WORST CASE



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14
P.C. SHEET NUMBER
A-0.5C

Lydia
Barron

Digitally signed by Lydia Barron
DN: cn=Lydia Barron, o=California
Department of General Services, ou=Division
of the State Architect, email=lydia.barron@ds.ca.gov
Date: 2015.04.14 15:46:48 -0700

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2016CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

A-0.6A

Digitally signed by Lydia Barron
DN: st=California, l=Sacramento, o=California
Department of General Services, ou=Division
of the State Architect, ou=[www.verisign.com/
repository/CPS](http://www.verisign.com/repository/CPS) Incorp. by Ref./A.B/LT.Dic/99,
title=Architectural Associate, cn=Lydia Barron
email=lydia.barron@pdgs.ca.gov
Date: 2015.02.26.15:36:03 -0800

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NRECC-LTO-03-E
(Page 1 of 3)

Project Address: 24 x 40 BLDG
General Information: New Construction, Addition, Alteration, Other
Outdoor Lighting Zone (OLZ): OLZ-1, OLZ-2, OLZ-3, OLZ-4
I have confirmed with the AEL which OLZ applies to this site. For default lighting curve designations, see 16B-24 Part 6, §10-214.

LISTING COMPLIANCE DOCUMENTS (check box for each document included):
For detailed instructions on the use of this and all other Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.
☒ NRECC-LTO-03-E Certificate of Compliance
☒ NRECC-LTO-03-E Outdoor Lighting Controls Certificate of Compliance
☒ NRECC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance

Summary of Allowed Outdoor Lighting Power
1. Sum Total ALLOWED Outdoor Lighting Watts from NRECC-LTO-03-E, page 1: 30
2. Sum Total INSTALLED Outdoor Lighting Watts from NRECC-LTO-03-E, page 1: 30

Declaration of Required Installation Certificates - Declare by checking all of the Certificates of Compliance that will be submitted. (Retain copies and verify forms are completed and signed.)
☒ NRECC-LTO-03-E - Must be submitted for all buildings.
☒ NRECC-LTO-03-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.
Declaration of Required Certificates of Acceptance - Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)
☒ NRECC-LTO-03-A - Must be submitted for outdoor lighting controls.
☐ Field Inspector

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NRECC-LTO-03-E
(Page 2 of 3)

Project Address: 24 x 40 BLDG
General Information: New Construction, Addition, Alteration, Other
Outdoor Lighting Zone (OLZ): OLZ-1, OLZ-2, OLZ-3, OLZ-4
I have confirmed with the AEL which OLZ applies to this site. For default lighting curve designations, see 16B-24 Part 6, §10-214.

Schedule of luminaires exempt from the outdoor lighting power requirements in §10-217
Name or Symbol Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the cutoff requirements in §10-218
Name or Symbol Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the outdoor lighting control requirements in §10-219
Name or Symbol Description of exempt luminaire in accordance with the exemptions

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NRECC-LTO-03-E
(Page 3 of 3)

Project Address: 24 x 40 BLDG
General Information: New Construction, Addition, Alteration, Other
Outdoor Lighting Zone (OLZ): OLZ-1, OLZ-2, OLZ-3, OLZ-4
I have confirmed with the AEL which OLZ applies to this site. For default lighting curve designations, see 16B-24 Part 6, §10-214.

DOCUMENTATION REVIEWER DECLARATION STATEMENT
I, the undersigned, hereby declare that the information provided in this Certificate of Compliance is true and correct.
I am eligible under Division 9 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible design).

RESPONSIBLE PERSON'S DECLARATION STATEMENT
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I am eligible under Division 9 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible design).

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CERTIFICATE OF COMPLIANCE
NRECC-MCH-04-E
(Page 1 of 3)

Project Address: 24 x 40 BLDG
General Information: New Construction, Addition, Alteration, Other
Mechanical Acceptance Tests: HVAC, Elevators, Pumps, etc.

MECHANICAL COMPLIANCE FORMS & WORKSHEETS (Indicate if worksheet is included)
For detailed instructions on the use of this and all other Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual. The Enforcement Agency may require all forms to be incorporated into the building plans. Forms NRECC-MCH-04-E and NRECC-MCH-05-E are alternative forms to NRECC-MCH-04-E, NRECC-MCH-05-E and NRECC-MCH-06-E for projects using only single zone packaged HVAC systems.

YES NO Form Title
☒ HVAC NRECC-MCH-04-E (1 of 2) Certificate of Compliance: Required on plans when used.
☒ HVAC NRECC-MCH-04-E (2 of 2) Mechanical Acceptance Test: Required on plans when used.
☒ HVAC NRECC-MCH-05-E (1 of 2) HVAC Prescriptive Requirements: E is required on plans when used.
☒ HVAC NRECC-MCH-05-E (2 of 2) Mechanical VAV Equipment Summary: E is required on plans when used.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CERTIFICATE OF COMPLIANCE
NRECC-MCH-04-E
(Page 2 of 3)

Project Address: 24 x 40 BLDG
General Information: New Construction, Addition, Alteration, Other
Mechanical Acceptance Tests: HVAC, Elevators, Pumps, etc.

Design
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable tests by all acceptance tests that apply and for all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. This NA number designates the location in the Appendix of the Nonresidential Information Appendix Manual that describes the test. This NA form will be part of the plans, completion of this section will allow the responsible party to budget for the costs of work approved.

System Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is opened for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

System Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements.
The NRECC-MCH-04-E form is not considered a completed form and is to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC Installer, TAB contractor, control contractor, etc.) is in charge of project and what Acceptance test must be completed. The following check boxes will have to be completed for all newly installed and replaced equipment. In addition, a Certificate of Acceptance form shall be submitted to the building department that certifies plans, specifications, installation certificate, and operating and maintenance information meet the requirements of Section 10-108(b) and 16B-24 Part 6. The building inspector must provide the project file and signed forms before the building can occupy.

Test Description	NRECC-MCH-04-E (1 of 2)	NRECC-MCH-04-E (2 of 2)	NRECC-MCH-05-E (1 of 2)	NRECC-MCH-05-E (2 of 2)	NRECC-MCH-06-E (1 of 2)	NRECC-MCH-06-E (2 of 2)	NRECC-MCH-07-E (1 of 2)	NRECC-MCH-07-E (2 of 2)	NRECC-MCH-08-E (1 of 2)	NRECC-MCH-08-E (2 of 2)	NRECC-MCH-09-E (1 of 2)	NRECC-MCH-09-E (2 of 2)	NRECC-MCH-10-E (1 of 2)	NRECC-MCH-10-E (2 of 2)	Test Performed By
Equipment															
Piping															
Controls															
Verification															

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CERTIFICATE OF COMPLIANCE
NRECC-MCH-04-E
(Page 3 of 3)

Project Address: 24 x 40 BLDG
General Information: New Construction, Addition, Alteration, Other
Mechanical Acceptance Tests: HVAC, Elevators, Pumps, etc.

DOCUMENTATION REVIEWER DECLARATION STATEMENT
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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCI Inc. SHALL BE THE PROPERTY OF SCI Inc.

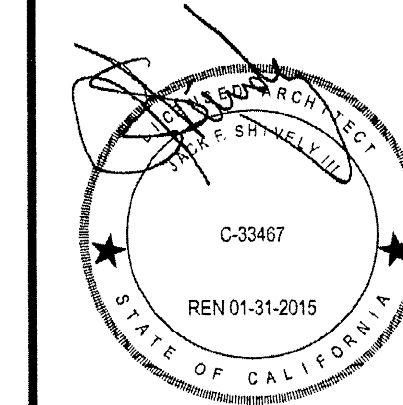
SILVER CREEK INDUSTRIES, INC.



2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

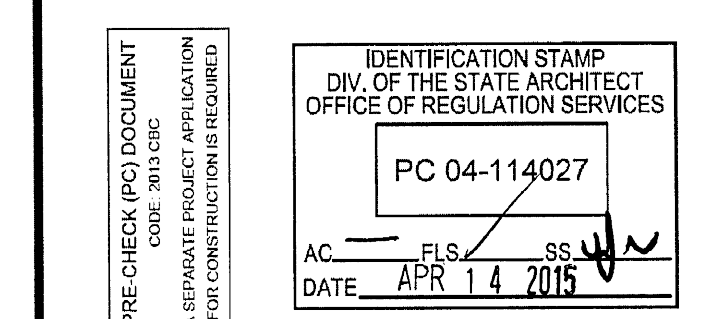
SHEET TITLE:
ENERGY CALC'S.
LTO / MCH FORMS
24' x 40' BLDG'S



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

NO.	REVISION
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)
PROJECT NO.
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

P.C. SHEET NUMBER
A-0.6B

Lydia Barron
Digitally signed by Lydia Barron
DN: cn=California, In=California, o=California Department of General Services, ou=Division of the State Architect, email=lydia.barron@ds.ca.gov, c=US
Date: 2015.02.26 15:27:00 -0800

STATE OF CALIFORNIA
INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
Project Name: 24' x 40' BLDG PC Date Prepared: 10/15/14

Client Name: Conditioned Floor Area: 9600
(Unconditioned Floor Area)

General Information
Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel
☒ Schools ☐ Religious/Public Schools ☐ Commercial Spaces ☐ Unconditioned Spaces

Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration

Method of Compliance: ☒ Complete building ☐ Area Category ☐ Tailored

Summary of Allowed Lighting Power
Conditioned and Unconditioned space lighting must not be combined for compliance

Area	Installed Lighting NRC-17-02-E, page 1	Watts	Notes
1. Conditioned Space	774		
2. Unconditioned Space	185		
3. Total	558		

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
Project Name: 24' x 40' BLDG PC Date Prepared: 10/15/14

Documentation Authority's Declaration Statement
I, the undersigned, certify that the information provided on this Certificate of Compliance is true and correct.

Responsible Person's Declaration Statement
I, the undersigned, certify that the information provided on this Certificate of Compliance is true and correct.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CERTIFICATE OF COMPLIANCE
Project Name: 24' x 40' BLDG PC Date Prepared: 10/15/14

The NRCC-LT-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by an approved lighting control system in accordance with Section 110.5.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with Section 110.5. An Installation Certificate shall be submitted in accordance with Section 110.5.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	One or more Non-Voice Lighting Control (NVL) systems shall be installed which have been certified in the Energy Commission in accordance with 110.5 and 110.6. Additionally, an Installation Certificate shall be submitted in accordance with Section 110.6.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All lighting controls and equipment shall comply with the applicable requirements in 110.5 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 110.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 110.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall displays, window displays, case displays, ornamental, and accent lighting shall not be separately controlled on circuits that are 20 amperes or less. Where floor lighting is used, general lighting, display, ornamental, and accent lighting shall not be separately controlled on circuits that are 20 amperes or less.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The general lighting in any conditioned area 120 square feet or larger, with a maximum lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 110.1(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All installed indoor lighting shall be equipped with controls that meet the applicable dimmable ON/OFF control requirements in Section 110.1(c).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting in all display zones shall be controlled in accordance with the requirements in Section 110.1(d) and shall turn on as shown on the plans.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting power in buildings larger than 100,000 square feet shall be capable of being automatically reduced in response to a Demand Response Signal in accordance with Section 110.1(e).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for the first time, indoor lighting controls serving the building, area, or site shall be verified as meeting the Acceptance Requirements for Compliance in accordance with Section 110.1(f). The controls required to meet the Acceptance Requirements include automatic daylight control, automatic dimmable ON/OFF controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
Project Name: 24' x 40' BLDG PC Date Prepared: 10/15/14

Client Name: Conditioned Floor Area: 9600
(Unconditioned Floor Area)

General Information
Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel
☒ Schools ☐ Religious/Public Schools ☐ Commercial Spaces ☐ Unconditioned Spaces

Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration

Method of Compliance: ☒ Complete building ☐ Area Category ☐ Tailored

Summary of Allowed Lighting Power
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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE
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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
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Project Name: 24' x 40' BLDG PC Date Prepared: 10/15/14

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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE
Project Name: 24' x 40' BLDG PC Date Prepared: 10/15/14

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General Information
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STATE OF CALIFORNIA
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Project Name: 24' x 40' BLDG PC Date Prepared: 10/15/14

The NRCC-LT-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

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Project Name: 24' x 40' BLDG PC Date Prepared: 10/15/14

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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

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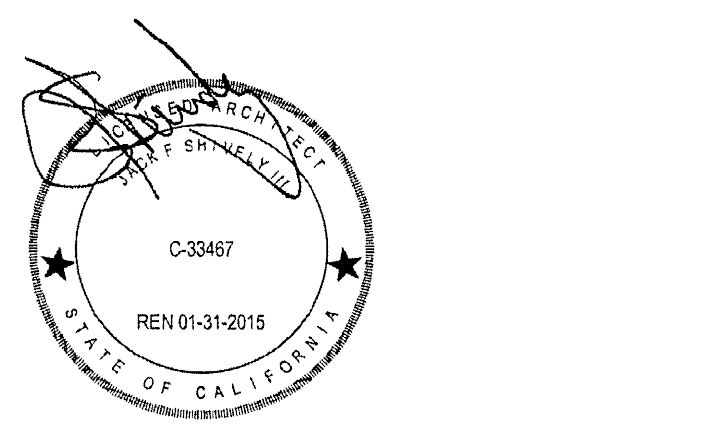
SILVER CREEK INDUSTRIES, INC.



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PHONE: 951-943-5393 FAX: 951-943-2211

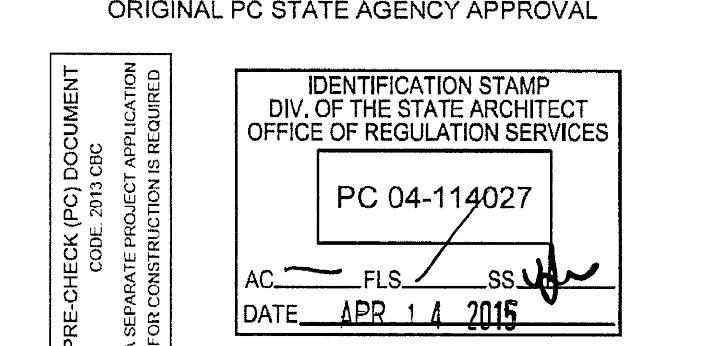
PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:
ENERGY CALC'S.
LTI FORMS
24' x 40' BLDG'S



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL



REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 08-10-14
P.C. SHEET NUMBER

A-0.6C

Lydia Barron

Digitally signed by Lydia Barron
DN: st=California, o=Sacramento,
ou=California Department of General
Services, ou=Division of the State
Architect, ou=www.verisign.com/
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Ref:LIAB.LTD/99, title=Architectural
Associate, cn=Lydia Barron,
email=lydia.barron@dps.ca.gov
Date: 2015.02.26 15:28:33 -0800

STATE OF CALIFORNIA
Electrical Power Distribution
CERTIFICATE OF COMPLIANCE
NRC-ELC-01-E
(Page 1 of 3)
Project Address: 120 x 40' SCI Bldg
City/State: 1-15
General Information: Nonresidential, High-Rise Residential, Industrial, School, Religious/Public School, Confined Space, Unconstrained Space, New Construction, Addition, Alteration
A. Electrical Service Metering
Each newly installed electrical service (on both existing and newly constructed buildings) is required to be metered, as set out in Table 133.5-A, which is reproduced below.
Table 133.5-A - MINIMUM REQUIREMENTS FOR METERING OF ELECTRICAL LOAD
Electrical Service Schedule: A, B, C, D, E, F, G
Designation/Location in building/Description: VIA

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

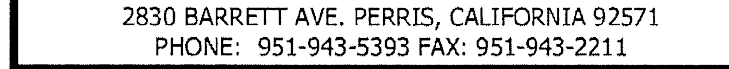
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B. Disaggregation of Electrical Circuits
Each newly installed electrical service (on both existing and newly constructed buildings) is required to be disaggregated according to the requirements of Table 133.5-B, which is reproduced below.
Table 133.5-B - MINIMUM REQUIREMENTS FOR DISAGGREGATION OF ELECTRICAL LOAD
Electrical Service Schedule: A, B, C, D, E, F, G
Designation/Location in building/Description: VIA

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

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Electrical Power Distribution
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(Page 3 of 3)
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C. Voltage Drop
Voltage drop shall be calculated for each branch circuit and for each feeder. The maximum voltage drop shall be 3 percent at design load.
Feeder Voltage Drop: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 11.0, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 12.0, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8, 12.9, 13.0, 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 14.0, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 14.9, 15.0, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.0, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7, 16.8, 16.9, 17.0, 17.1, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7, 17.8, 17.9, 18.0, 18.1, 18.2, 18.3, 18.4, 18.5, 18.6, 18.7, 18.8, 18.9, 19.0, 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 20.0, 20.1, 20.2, 20.3, 20.4, 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174.5, 174.6, 174.7, 174.8, 174.9, 175.0, 175.1, 175.2, 175.3, 175.4, 175.5, 175.6, 175.7, 175.8, 175.9, 176.0, 176.1, 176.2, 176.3, 176.4, 176.5, 176.6, 176.7, 176.8, 176.9, 177.0, 177.1, 177.2, 177.3, 177.4, 177.5, 177.6, 177.7, 177.8, 177.9, 178.0, 178.1, 178.2, 178.3, 178.4, 178.5, 178.6, 178.7, 178.8, 178.9, 179.0, 179.1, 179.2, 179.3, 179.4, 179.5, 179.6, 179.7, 179.8, 179.9, 180.0, 180.1, 180.2, 180.3, 180.4, 180.5, 180.6, 180.7, 180.8, 180.9, 181.0, 181.1, 181.2, 181.3, 181.4, 181.5, 181.6, 181.7, 181.8, 181.9, 182.0, 182.1, 182.2, 182.3, 182.4, 182.5, 182.6, 182.7, 182.8, 182.9, 183.0, 183.1, 183.2, 183.3, 183.4, 183.5, 1

CA building Energy Efficiency Standards - 2003 Nonresidential Compliance June 2004CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance JuneCA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014CA Building Energy Efficiency Standards - 2023 Nonresidential Compliance June 2023CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2013

SILVER CREEK INDUSTRIES, INC.



PALOMAR COLLEGE
SCIENCE BUILDING

PROJECT SPECIFIC STATE AGENCY APPROVAL

PRE-CHECK (PG) DOCUMENT
CCE# 2013-032
SEMAPTE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

PC 04-114027

AC _____ FLs _____ SS. *[Signature]*
DATE APR 14 2015

SILVER CREEK INDUSTRIES
24' x 40' RC (HIGH SEISMIC)

P.C. SHEET NUMBER	
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Digitally signed by Lydia Barron
DN: st=California, l=Sacramento, o=California
Department of General Services, ou=Division
of the State Architect, ou=www.verisign.com
repository/CPS Incomp, by Ref., UAB.LTD(c)99,
title=Architectural Associate, cn=Lydia
Barron, email=lydia.barron@ds.ca.gov
Date: 2015.03.26 16:31:10 -0600

Digitally signed by Lydia Barron
DN: st=California, l=Sacramento, o=California
Department of General Services, ou=Division
of the State Architect, ou=[www.verisign.com/
repository/CPS](http://www.verisign.com/repository/CPS) Incorp. by Ref., [LIAB.LTD\(c\)98](http://LIAB.LTD(c)98),
title=Architectural Associate, cn=Lydia
Barron, email=lydia.barron@dgs.ca.gov
Date: 2015.02.26 15:33:13 -0800'

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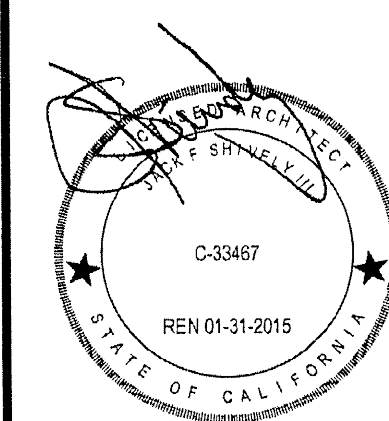


2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:

ENERGY CALC'S.
LTI FORMS
120' x 40' BLDG'S

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL _____

RE-CHECK (PC) DOCUMENT
CODE: 2013 CBC

SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE

PC 04-114027

AC _____ FLS _____ SS _____
DATE APR 14 2015

REVISIONS

- 1
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- 6
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- 8

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	09-10-14
D.C. SHEET NUMBER	

P.C. SHEET NUMBER

A-0.6F

24'x40' BUILDING - WOOD STUDS - WOOD FLOOR - WALL MOUNTED HEAT PUMP - ANY ROOF TYPE																	ALL ZONES (MIN DESIGN)	
SINGLE ZONE (MINIMUM DESIGN)																	1-10	1-10
Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1-10	1-10
Wall (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Floor (min. R value)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Roof (min. R value)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
HVAC																		
Max. Tonnage	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5**	5**
Min. SEER	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14**	14**
Occupancy Sensor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
DCV	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

24'x40' BUILDING - WOOD STUDS - WOOD FLOOR - WALL MOUNTED HEAT PUMP - ANY ROOF TYPE																	ALL ZONES (MIN DESIGN)	
SINGLE ZONE (MINIMUM DESIGN)																	1-10	1-10
Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1-10	1-10
Wall (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Floor (min. R value)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Roof (min. R value)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
HVAC																		
Max. Tonnage	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5**	5**
Min. SEER	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14**	14**
Occupancy Sensor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
DCV	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

LEGEND:
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTE:
Buildings utilizing exterior wall constructed of steel stud framing shall have Min. R4 Continuous Rigid Insulation (EPS or XPS material) on interior side of wall.
Windows shall be IWC (200 horizontal slider (50 (0/0) Ctr) or equal (Min.) U-Factor = .510 (Max), SHGC = .350 (Max), Visual Transmittance = 0.500 (Min)
Doors shall be hollow metal, uninsulated single layer doors (Min.) U-Factor = 0.350 (Max)

24'x40' BUILDING - WOOD STUDS - WOOD FLOOR - ROOF MOUNTED HEAT PUMP - ANY ROOF TYPE																	ALL ZONES (MIN DESIGN)	
SINGLE ZONE (MINIMUM DESIGN)																	1-10	1-10
Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1-10	1-10
Wall (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Floor (min. R value)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Roof (min. R value)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
HVAC																		
Max. Tonnage	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5**	5**
Min. SEER	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14**	14**
Occupancy Sensor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
DCV	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

24'x40' BUILDING - WOOD STUDS - WOOD FLOOR - ROOF MOUNTED HEAT PUMP - ANY ROOF TYPE																	ALL ZONES (MIN DESIGN)	
SINGLE ZONE (MINIMUM DESIGN)																	1-10	1-10
Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1-10	1-10
Wall (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Floor (min. R value)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Roof (min. R value)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
HVAC																		
Max. Tonnage	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5**	5**
Min. SEER	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14**	14**
Occupancy Sensor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
DCV	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

LEGEND:
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTE:
Buildings utilizing exterior wall constructed of steel stud framing shall have Min. R4 Continuous Rigid Insulation (EPS or XPS material) on interior side of wall.
Windows shall be IWC (200 horizontal slider (50 (0/0) Ctr) or equal (Min.) U-Factor = .510 (Max), SHGC = .350 (Max), Visual Transmittance = 0.500 (Min)
Doors shall be hollow metal, uninsulated single layer doors (Min.) U-Factor = 0.350 (Max)

24'x40' BUILDING - WOOD STUDS - WOOD FLOOR - WALL MOUNTED HEAT PUMP - ANY ROOF TYPE																	ALL ZONES (MIN DESIGN)	
SINGLE ZONE (MINIMUM DESIGN)																	1-10	1-10
Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1-10	1-10
Wall (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Floor (min. R value)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Roof (min. R value)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
HVAC																		
Max. Tonnage	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5**	5**
Min. SEER	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14**	14**
Occupancy Sensor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
DCV	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

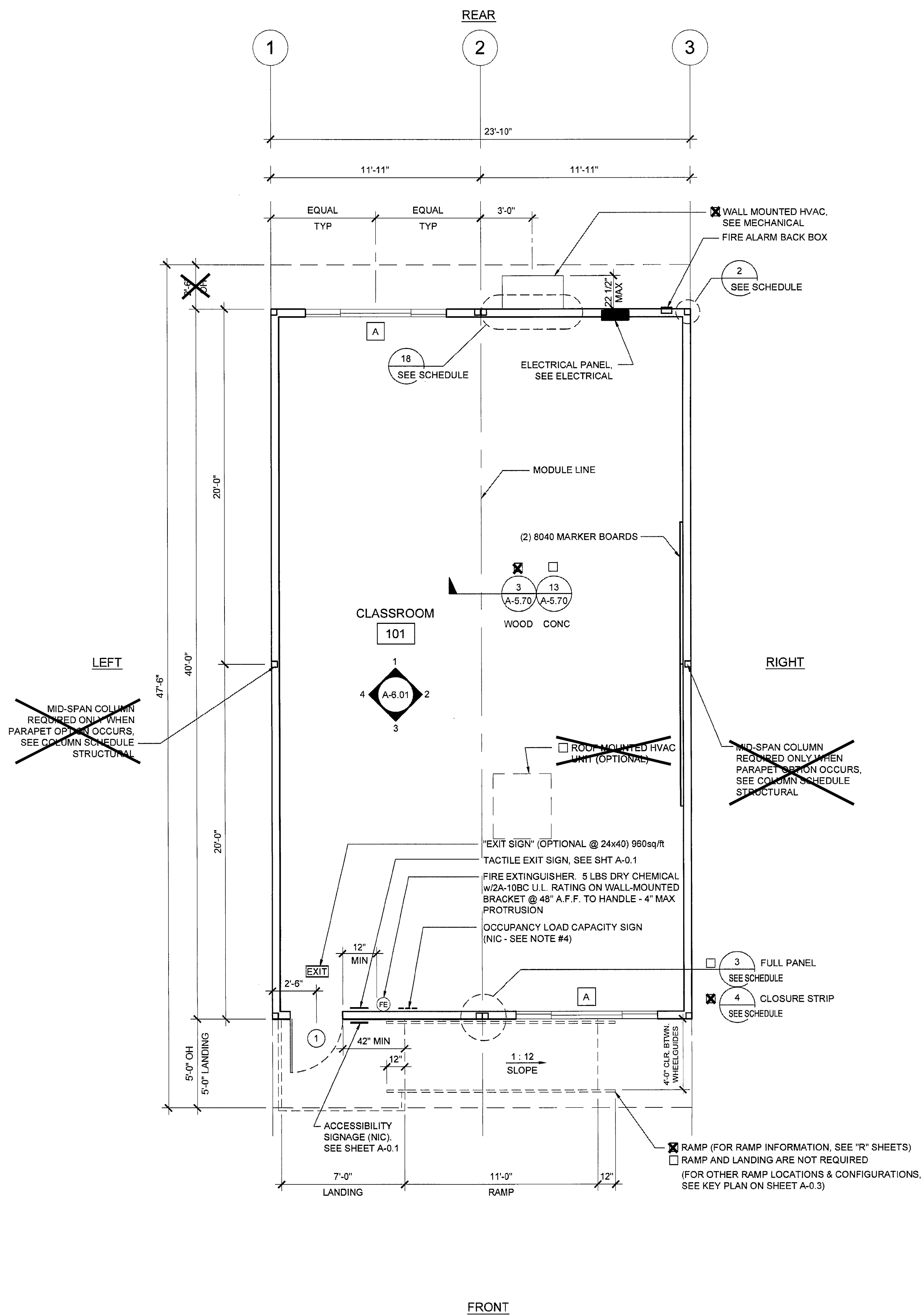
24'x40' BUILDING - WOOD STUDS - WOOD FLOOR - WALL MOUNTED HEAT PUMP - ANY ROOF TYPE																	ALL ZONES (MIN DESIGN)	
SINGLE ZONE (MINIMUM DESIGN)																	1-10	1-10
Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1-10	1-10
Wall (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Floor (min. R value)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Roof (min. R value)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
HVAC																		
Max. Tonnage	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5**	5**
Min. SEER	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14**	14**
Occupancy Sensor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
DCV	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

LEGEND:
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTE:
Buildings utilizing exterior wall constructed of steel stud framing shall have Min. R4 Continuous Rigid Insulation (EPS or XPS material) on interior side of wall.
Windows shall be IWC (200 horizontal slider (50 (0/0) Ctr) or equal (Min.) U-Factor = .510 (Max), SHGC = .350 (Max), Visual Transmittance = 0.500 (Min)
Doors shall be hollow metal, uninsulated single layer doors (Min.) U-Factor = 0.350 (Max)

24'x40' BUILDING - WOOD STUDS - WOOD FLOOR - ROOF MOUNTED HEAT PUMP - ANY ROOF TYPE																	ALL ZONES (MIN DESIGN)	
SINGLE ZONE (MINIMUM DESIGN)																	1-10	1-10
Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1-10	1-10
Wall (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Floor (min. R value)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Roof (min. R value)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
HVAC																		
Max. Tonnage	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5**	5**
Min. SEER	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14**	14**
Occupancy Sensor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
DCV	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

220'x40' BUILDING - WOOD STUDS - WOOD FLOOR - ROOF MOUNTED HEAT PUMP - ANY ROOF TYPE																	ALL ZONES (MIN DESIGN)	
SINGLE ZONE (MINIMUM DESIGN)																	1-16	
Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Wall (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13		
Floor (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13		
Roof (min. R value)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13		
HVAC	21	20	20	30	30	32	30	30	30	30	30	30	30	30	30	30		
Min. Temprg	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	S**	
Min. Hum	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14**	
Condenser Temp	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
Dew	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	



- NOTES**
- PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. (PER IIR 16-1.130)
(1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, $K_z + 1.0$ 2015 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = S_s .
 - VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7.
 - LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
 - POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CBC 1004.3 (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK)
 - IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS REL-101 & REL-102.
 - FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBERS. PER IIR-16-1.13

DETAIL SCHEDULE	
FINISH:	SHEET #:
<input checked="" type="checkbox"/> SIDING OVER WOOD STUDS (W/ULI COMPLIANT DURA-TEMP)A-5.50	
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
<input type="checkbox"/> SIDING OVER STEEL STUDS	A-5.60
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE	
FIRE PROTECTION:	SHEET #:
<input type="checkbox"/> 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
<input type="checkbox"/> 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION.
(CBC 703.7)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:
1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR OR INCORPORATING THE SUGGESTED WORDING: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

WALL LEGEND	
	NOMINAL 4" WALL STUD <input checked="" type="checkbox"/>
	NOMINAL 6" WALL STUD <input checked="" type="checkbox"/>
	NOMINAL 8" WALL STUD <input type="checkbox"/>
	WINDOW PER SCHEDULE SHEET A-0.2
	DOOR PER SCHEDULE SHEET A-0.2

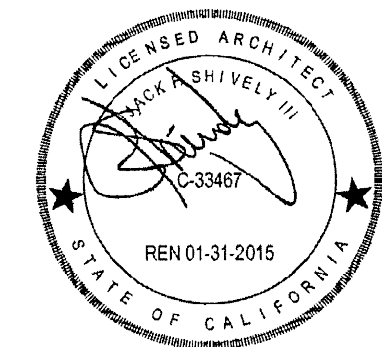
NOTES
IF PARAPET IS USED AND HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C.
THIS PLAN MAY INCLUDE THE FOLLOWING EXERCISABLE OPTIONS APPLICABLE TO THE FOLLOWING: PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS MAY BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCI Inc. SHALL BE THE PROPERTY OF SCI Inc.

SILVER CREEK INDUSTRIES, INC.
"BUILDING FOR THE NEXT GENERATION"
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

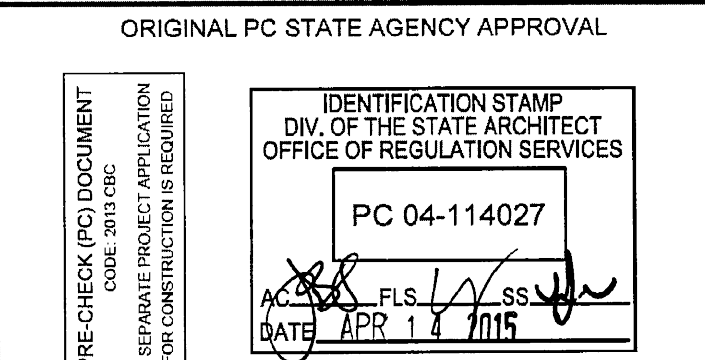
PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
FLOOR PLAN
24' x 40'



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

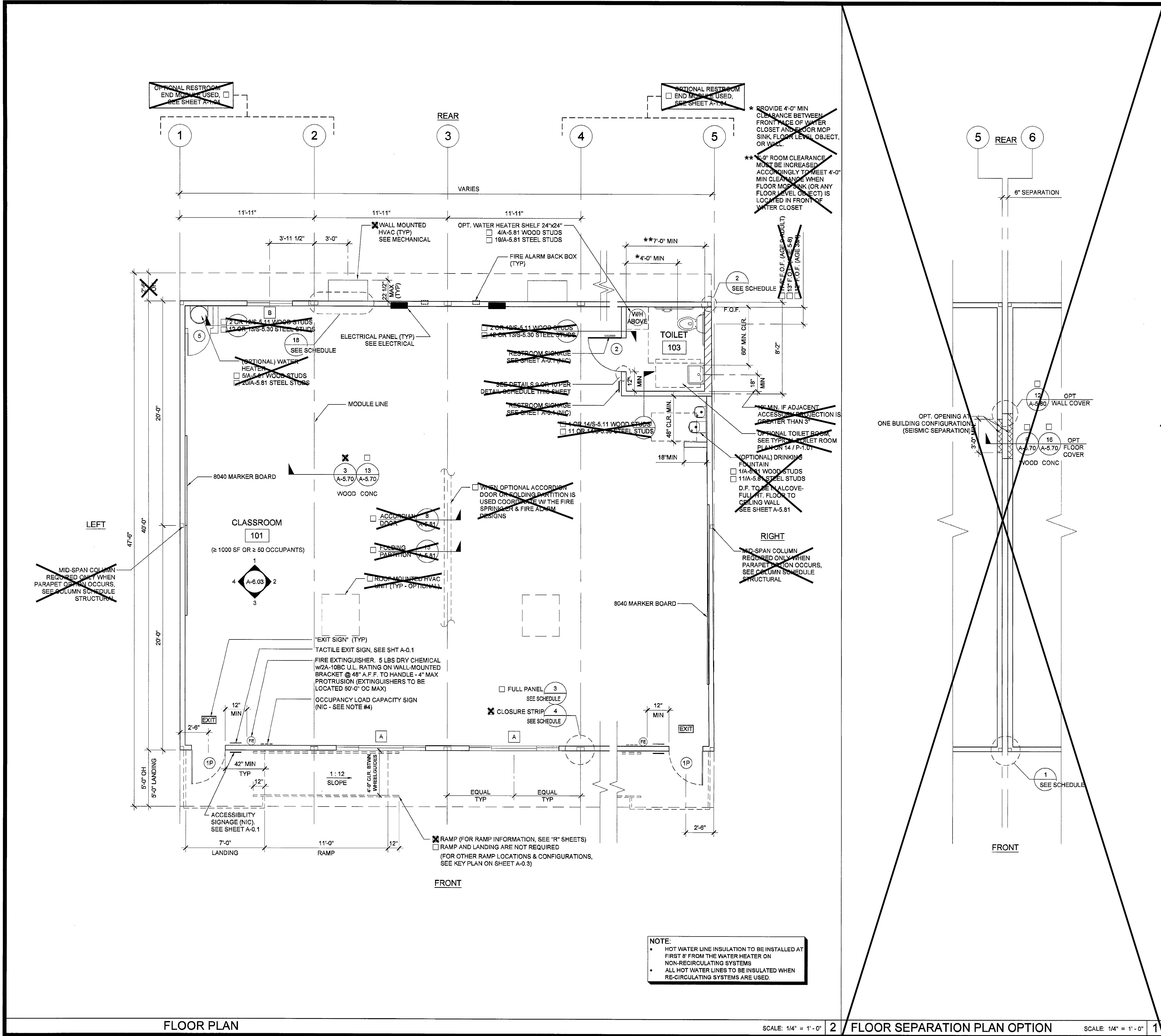


REVISIONS	
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SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

P.C. SHEET NUMBER
A-1.01



NOTES

- PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. (PER IR 16-1.13)
- VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7
- LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
- POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CBC 1004.3 (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK)
- IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS REL-101 & REL-102
- FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBERS. PER IR-16-1.13
- ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION.
- INTERIOR WALLS MAY BE ADDED TO FLOOR PLAN. SEE STRUCTURAL
- FOR CASEWORK, TEACHER WALL, OR TV BLOCKING OPTIONS, SEE SHEET A-5.80
- IF AN INTERIOR PARTITION WALL IS REMOVED, 2 EXITS ARE REQUIRED AND MUST BE SEPARATED BY A DISTANCE APART EQUAL TO OR NOT LESS THAN ONE-HALF OF THE MAXIMUM OVERALL DIAGONAL DIMENSION FOR UNSPRINKLERED BUILDINGS AND ONE-THIRD THE MAXIMUM OVERALL DIAGONAL DIMENSION FOR SPRINKLERED BUILDING PER CBC SECTION 1015.2.1

DETAIL SCHEDULE

FINISH:	SHEET #:
<input checked="" type="checkbox"/> SIDING OVER WOOD STUDS (WUI COMPLIANT DURATEMP)	A-5.50
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
<input type="checkbox"/> SIDING OVER STEEL STUDS	A-5.60
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
<input type="checkbox"/> 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
<input type="checkbox"/> 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

WALL LEGEND

NOMINAL 4" WALL STUD ☒

NOMINAL 6" WALL STUD ☒

NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2

DOOR PER SCHEDULE SHEET A-0.2

NOTE: IF PARAPETS ARE USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C.

THIS PLAN MAY INCLUDE THE FOLLOWING EXERCISABLE OPTIONS APPLICABLE TO THE BUILDING: PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES, OPTIONS CAN BE APPLIED AS REQUIRED TO THE BUILDING SIZES

SYMBOLS LEGEND

A = ADULT DIMENSIONS

E = ELEMENTARY DIMENSIONS

K = KINDERGARTEN DIMENSIONS

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

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SILVER CREEK INDUSTRIES, INC.

"BUILDING FOR THE NEXT GENERATION"

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
FLOOR PLAN
48' TO 120' x 40'

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

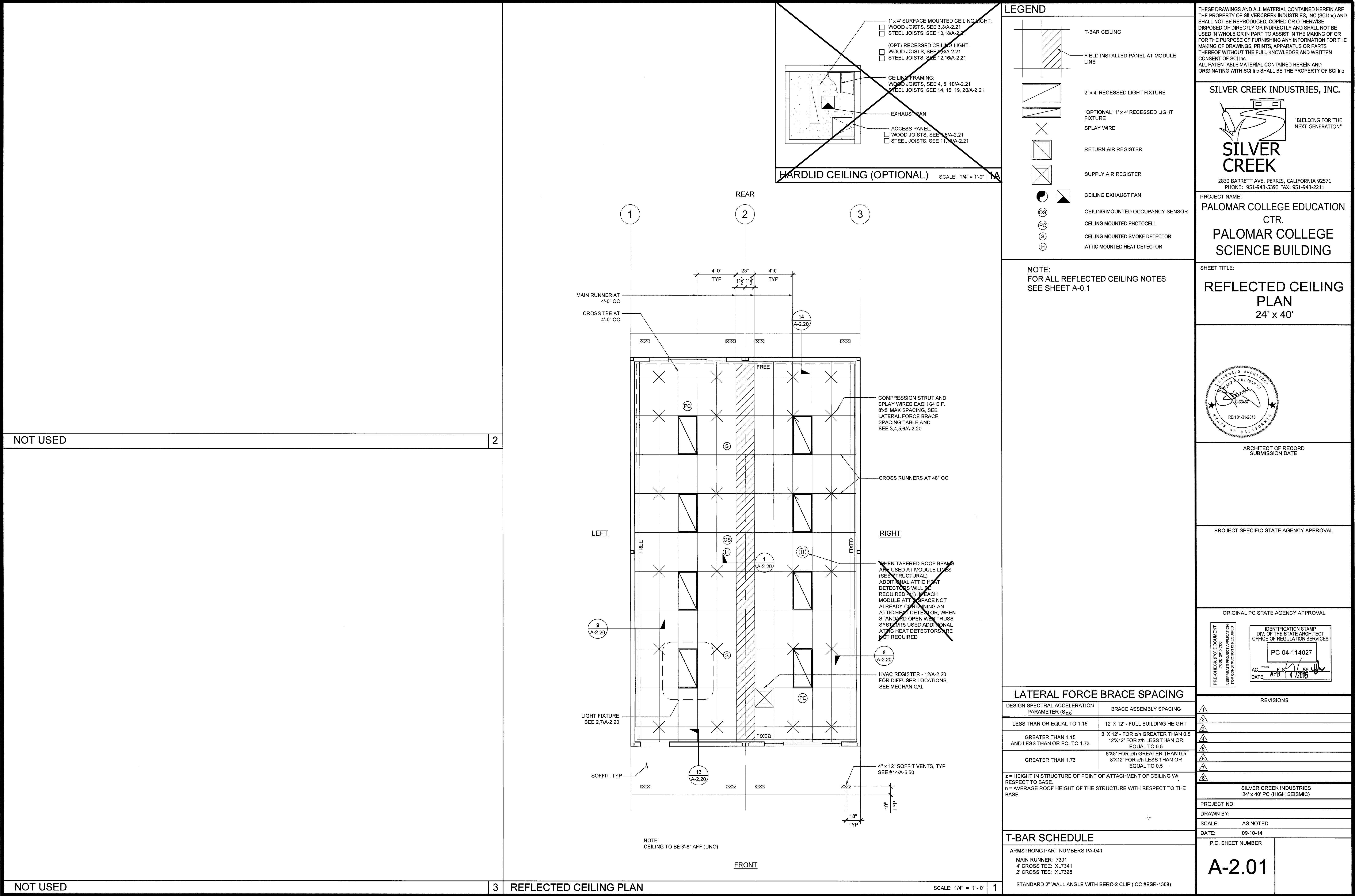
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114027
DATE APR 14 2015

REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

P.C. SHEET NUMBER
A-1.03



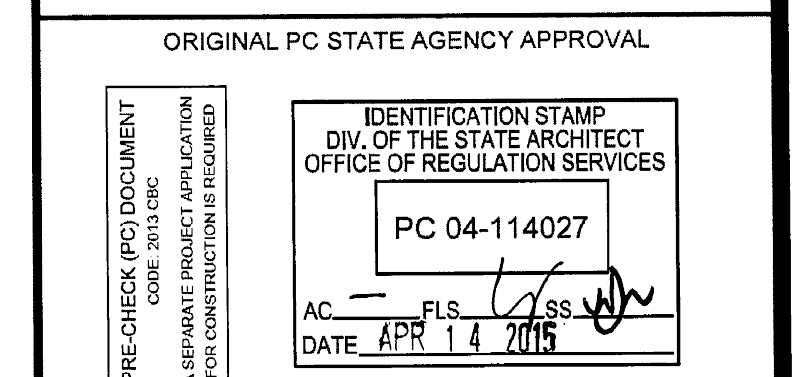


- NOTE:**
FOR ALL REFLECTED CEILING NOTES
SEE SHEET A-0.1

SHEET TITLE:

**REFLECTED CEILING
PLAN**

48' TO 120' x 40'



z = HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING W/ RESPECT TO BASE.	EQUAL TO 0.5
h = AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.	

ARMSTRONG PART NUMBERS PA-041

MAIN RUNNER: 7301

4' CROSS TEE: XL7341

2' CROSS TEE: XL7328

STANDARD 2" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308)

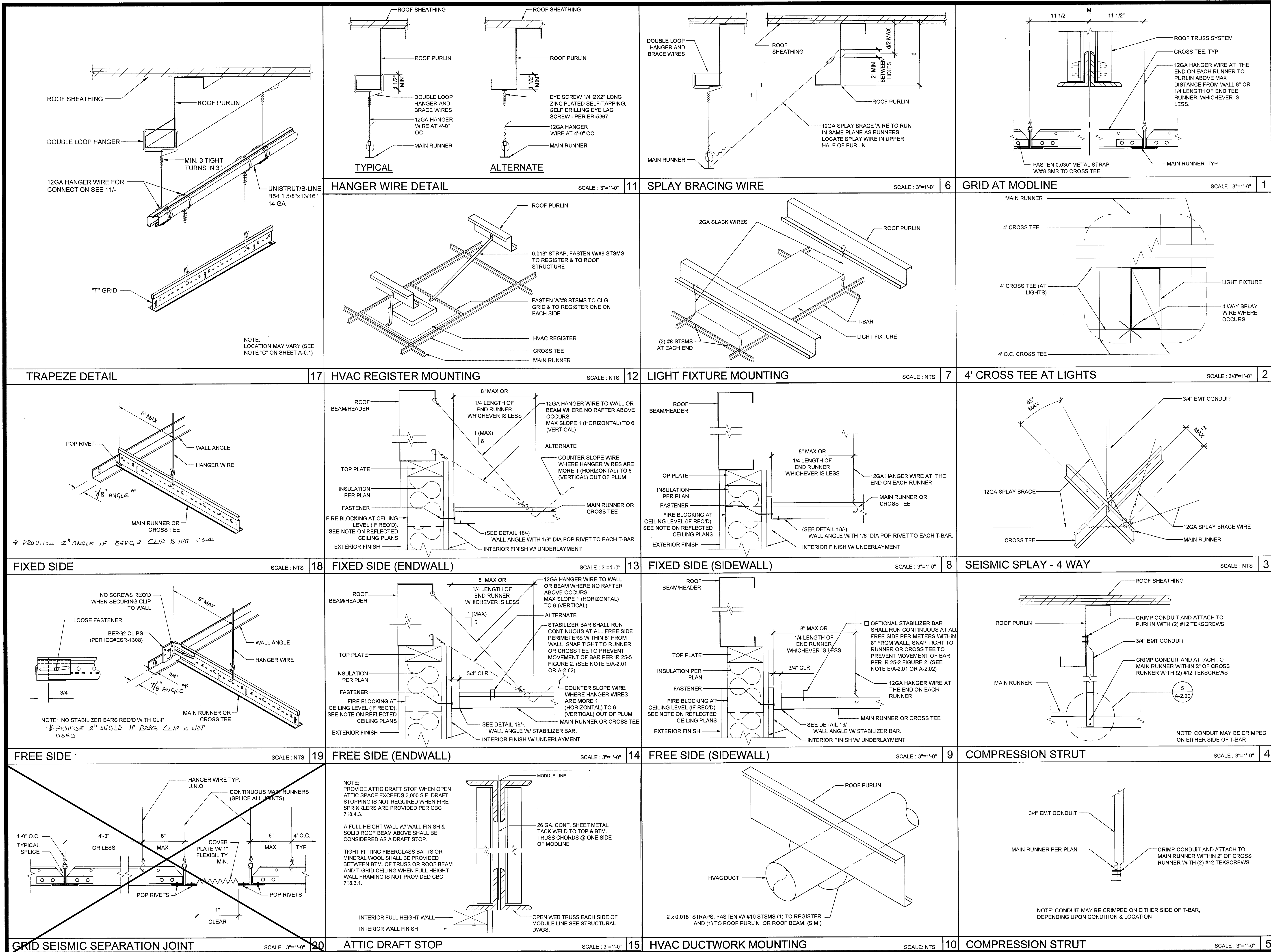
A-2.03

	2
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	3
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SCALE: 1/4" = 1' - 0"	1
-----------------------	---

1



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SILVER CREEK INDUSTRIES, INC.

"BUILDING FOR THE NEXT GENERATION"

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
**PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING**

SHEET TITLE:
**CEILING DETAILS
T-GRID**

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

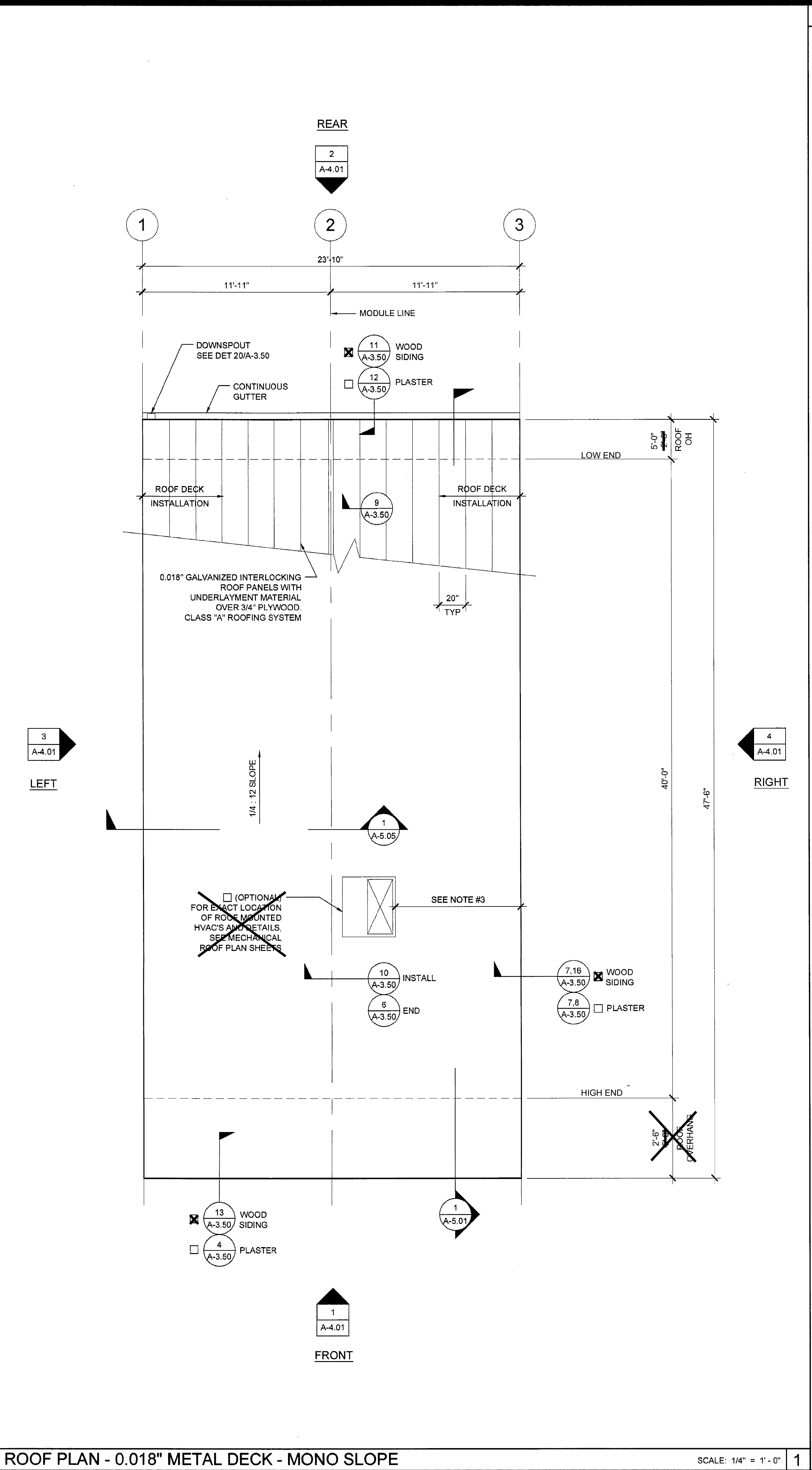
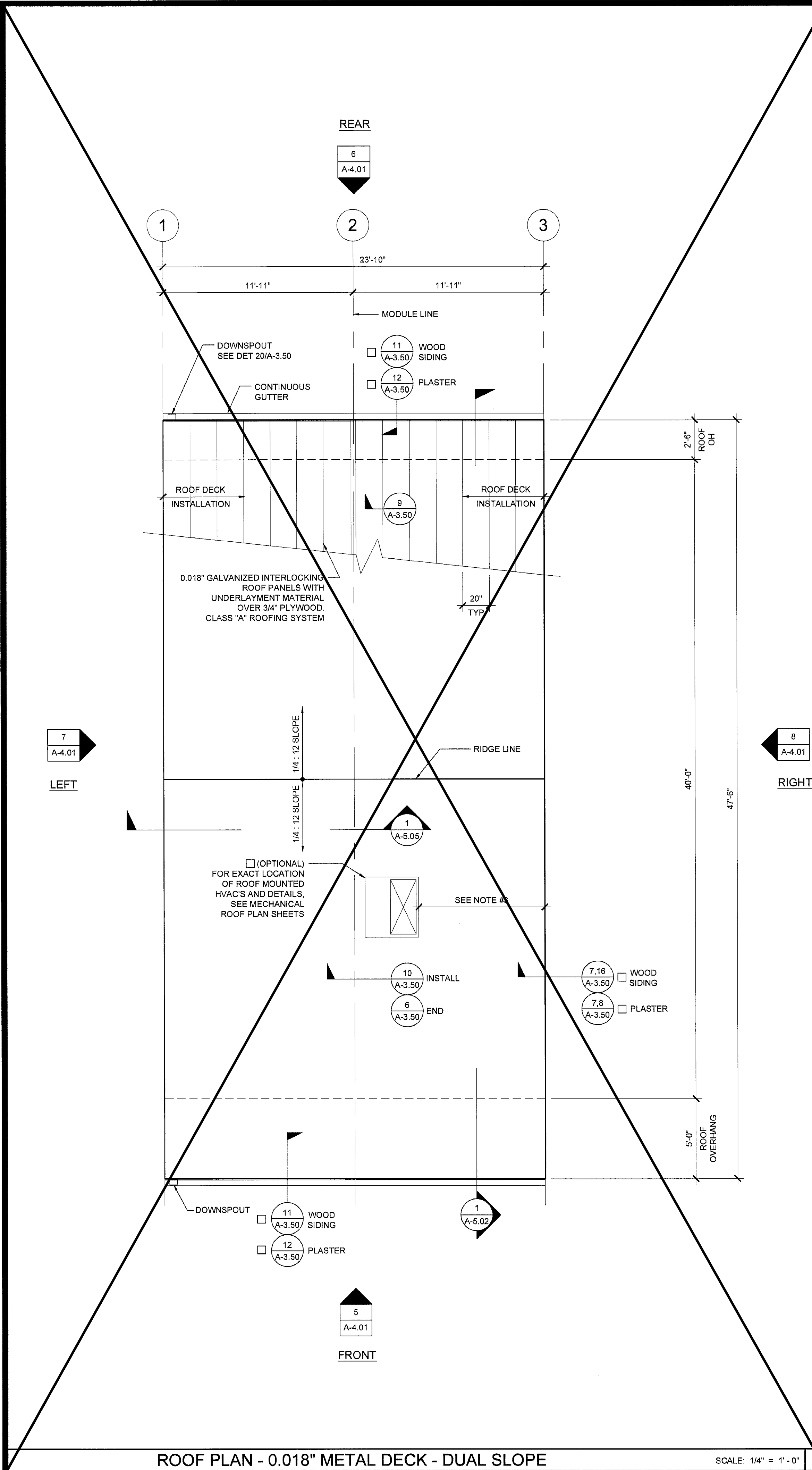
ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
PC 04-114027
AC: [Signature] ELS: [Signature] [Signature]
DATE: APR 14 2015

REVISIONS

SILVER CREEK INDUSTRIES
24" x 40" PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14
P.C. SHEET NUMBER
A-2.20



- NOTES**
- GROUP E OCCUPANCIES - BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
 - LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
 - ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. ~~OR 9'-6" OVER 4'-3" MIN. L.W.~~ CBC 2013 SECTIONS 1013.6 & 1013.7, ~~PARA P E T~~ ~~OR GUARDRAIL~~
 - FOR SPECIFIC DOWNSPOUT LOCATIONS FOR VARIOUS BUILDING SIZES, SEE KEY PLANS ON SHEET A-0.3. LOCATE ONE (1) DOWNSPOUT FOR EVERY THREE (3) MODULES (TYP).
 - ANY BUILDING OVER 3,000 SQ/FT REQUIRES A DRAFT STOP UNLESS BUILDING IS EQUIPPED WITH FIRE SPRINKLERS.

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SILVER CREEK INDUSTRIES, INC.

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
ROOF PLAN
24'x40' - 0.018" METAL DECK
MONO OR DUAL SLOPE

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
(A SEPARATE TABLE APPLICATION FOR CONSTRUCTION IS REQUIRED)

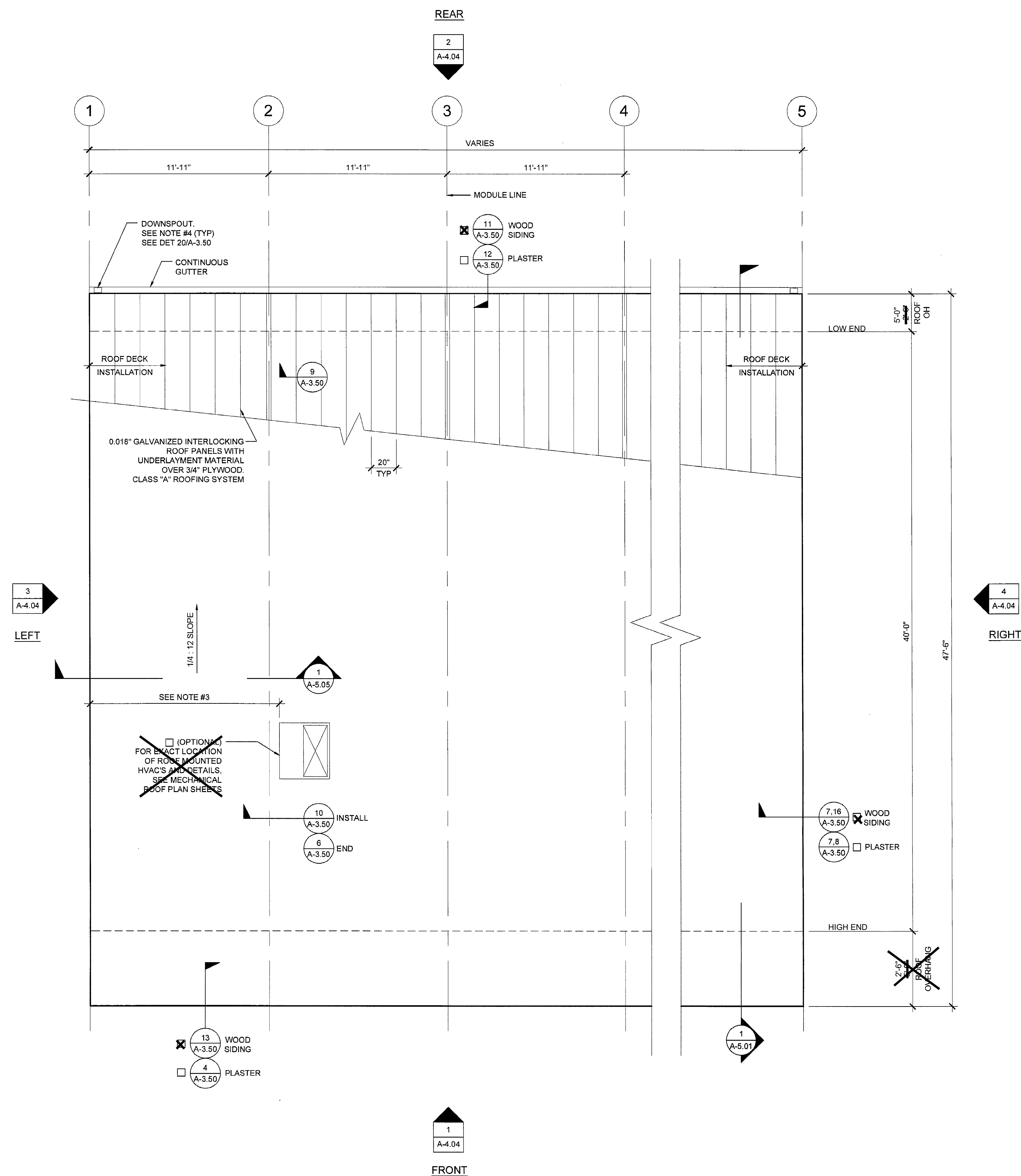
IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
PC 04-114027
DATE: APR 14 2015

REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO.
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14
P.C. SHEET NUMBER

A-3.01



ROOF PLAN - 0.018" METAL DECK - MONO SLOPE

SCALE: 1/4" = 1'-0"

ROOF SEP. PLAN OPTION

SCALE: 1/4" = 1'-0"

NOTES

- GROUP E OCCUPANCIES - BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
- LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC 718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
- ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. PARAPETS SHALL BE CBC 2013 SECTIONS 1013.6 & 1013.7. PARAPET OR GUARDRAIL.
- FOR SPECIFIC DOWNSPOUT LOCATIONS FOR VARIOUS BUILDING SIZES, SEE KEY PLANS ON SHEET A-0.3. LOCATE ONE (1) DOWNSPOUT FOR EVERY THREE (3) MODULES (TYP).
- ANY BUILDING OVER 3,000 SQ/FT REQUIRES A DRAFT STOP UNLESS BUILDING IS EQUIPPED WITH FIRE SPRINKLERS.

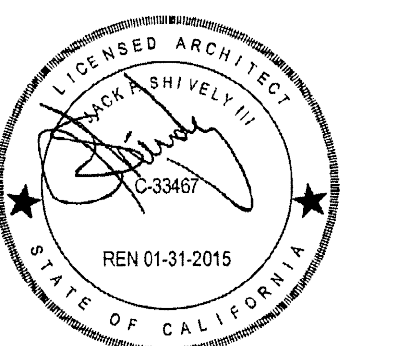
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SILVER CREEK INDUSTRIES, INC.



PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

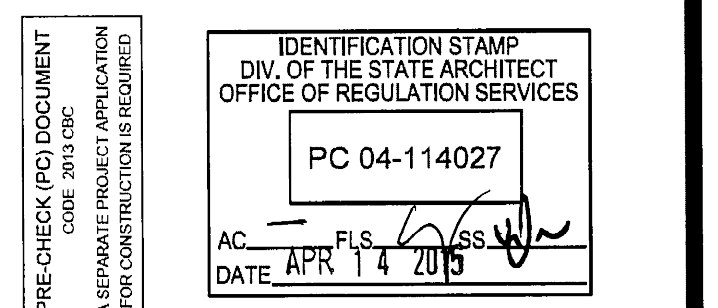
SHEET TITLE:
ROOF PLAN
48' TO 120' x 40'
0.018" METAL DECK
MONO SLOPE



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



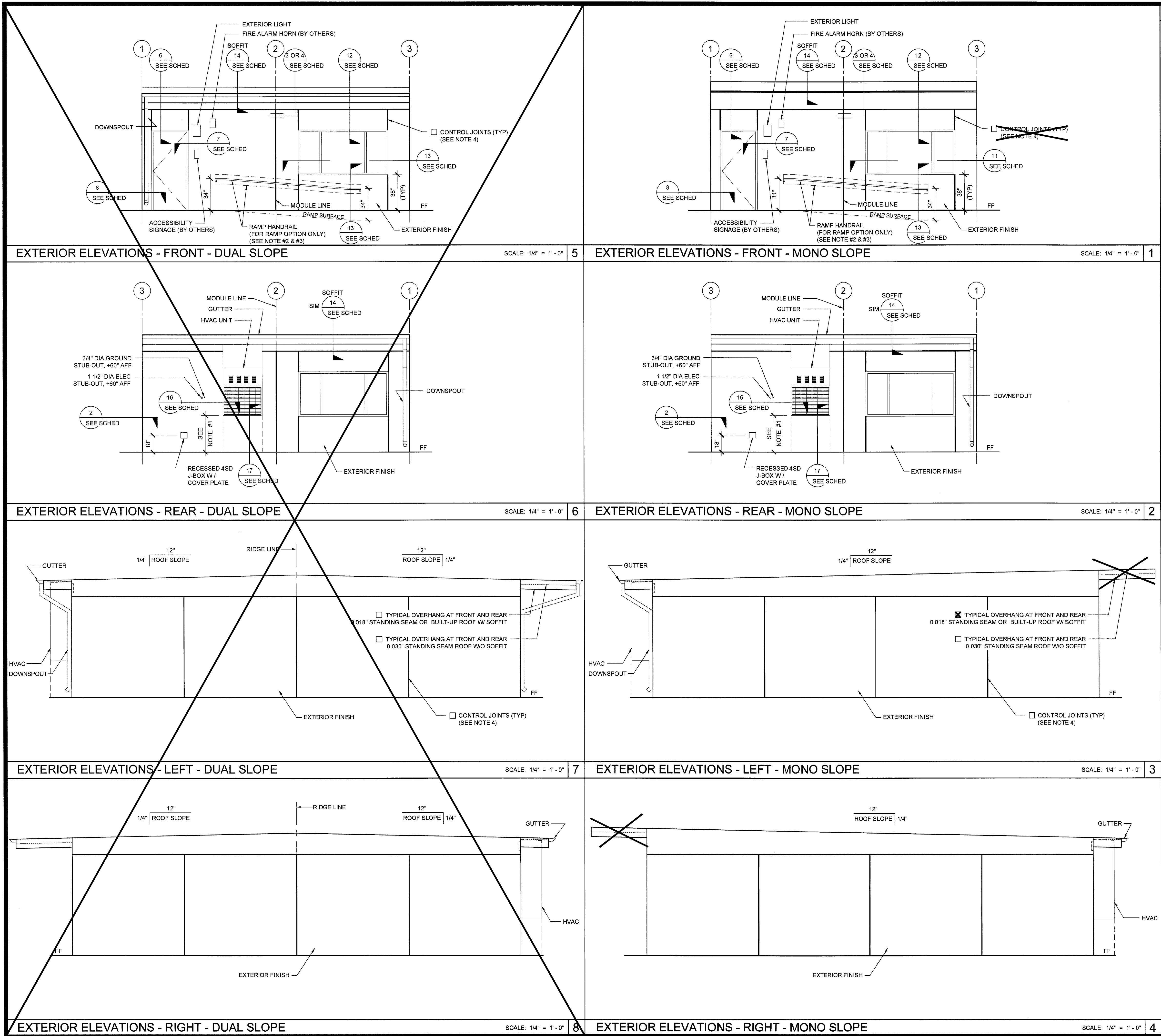
REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

P.C. SHEET NUMBER

A-3.03



NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (N.C.). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 8" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705
5. HANDRAIL IS NOT ALLOWED AT PLASTER OPTION WHERE RAMP IS AGAINST THE WALL. SEE DETAIL 1R-2.01 FOR SIMILAR APPLICATION

DETAIL SCHEDULE

EXTERIOR FINISH:	SHEET #:
<input checked="" type="checkbox"/> SIDING OVER WOOD STUDS	A-5.50
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY	A-5.51
WITH WOOD STUDS	
<input type="checkbox"/> SIDING OVER STEEL STUDS	A-5.60
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY	A-5.61
WITH STEEL STUDS	

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
<input type="checkbox"/> 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
<input type="checkbox"/> 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

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SILVER CREEK INDUSTRIES, INC.



2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

PALOMAR COLLEGE EDUCATION

CTR.

PALOMAR COLLEGE

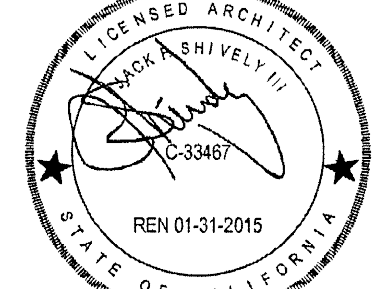
SCIENCE BUILDING

SHEET TITLE:

EXTERIOR ELEVATION

24' X 40'

MONO / DUAL SLOPE

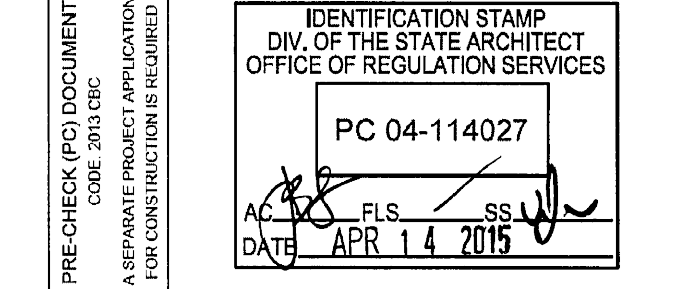


ARCHITECT OF RECORD

SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

SILVER CREEK INDUSTRIES

24' x 40' PC (HIGH SEISMIC)

PROJECT NO:

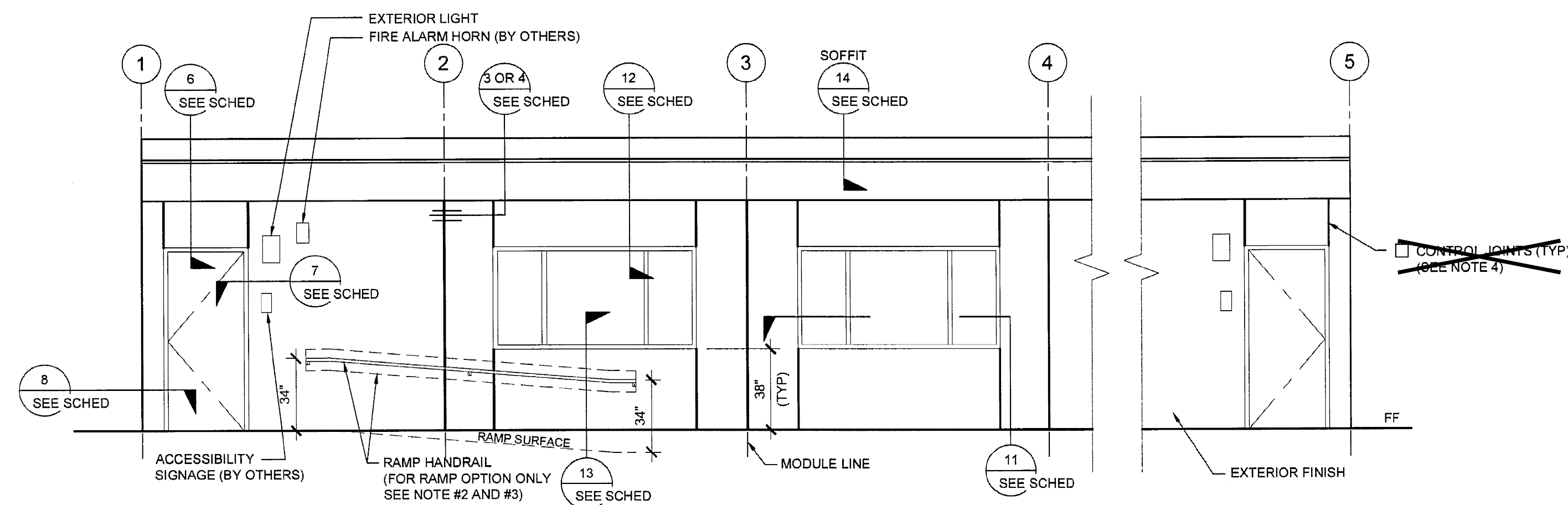
DRAWN BY:

SCALE: AS NOTED

DATE: 09-10-14

P.C. SHEET NUMBER

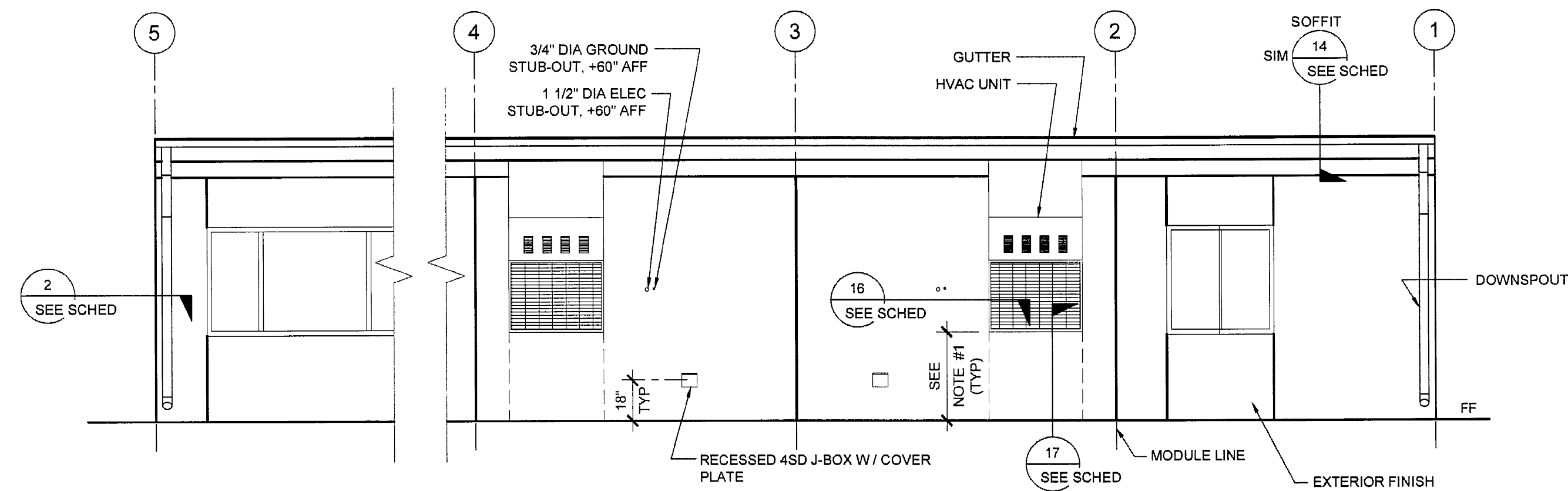
A-4.01



EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 1/4" = 1'-0"

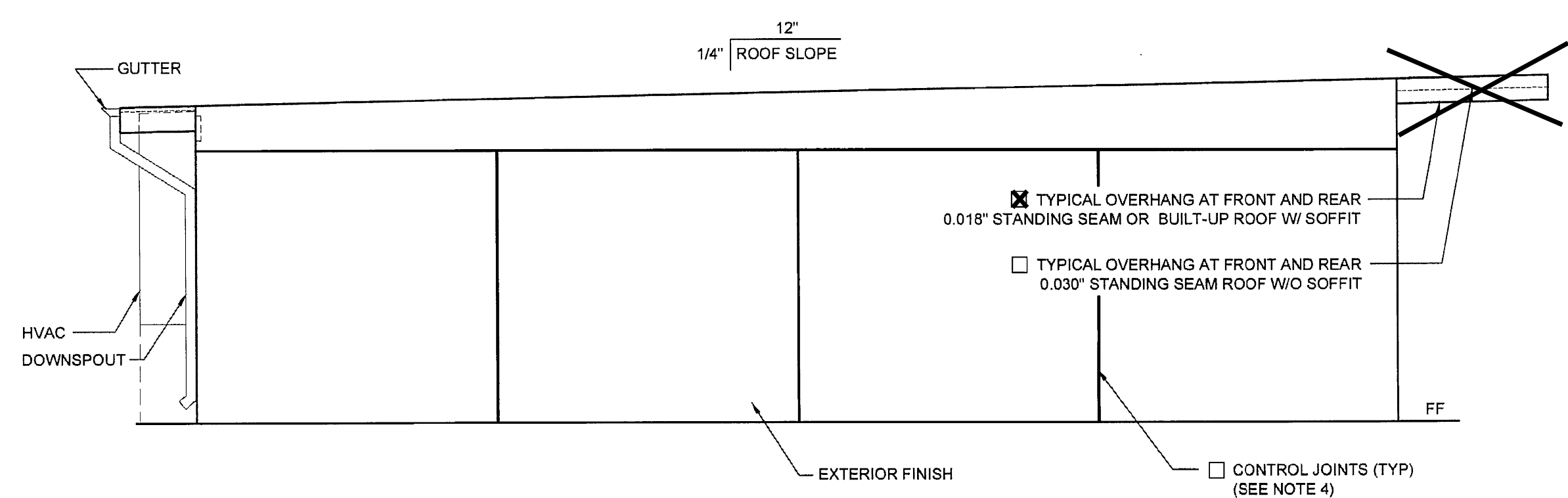
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EXTERIOR ELEVATIONS - REAR - MONO SLOPE

SCALE: 1/4" = 1'-0"

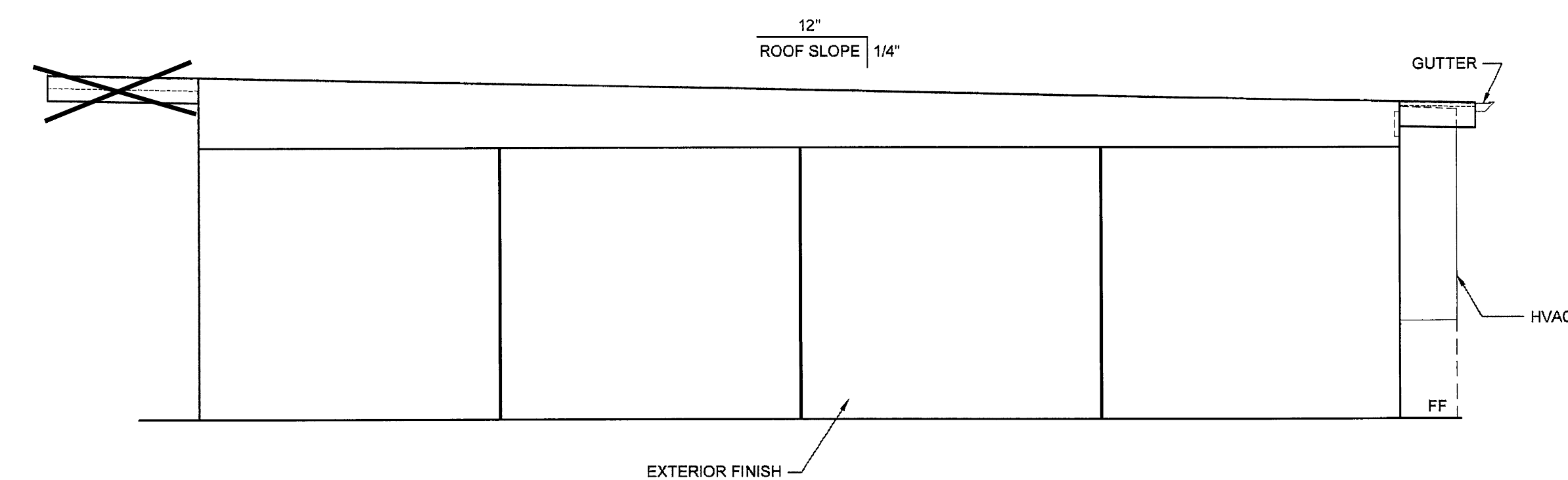
2



EXTERIOR ELEVATIONS - LEFT - MONO SLOPE

SCALE: 1/4" = 1'-0"

3



EXTERIOR ELEVATIONS - RIGHT - MONO SLOPE

SCALE: 1/4" = 1'-0"

4

NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNITS IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS.
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 8" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. HANDRAIL IS NOT ALLOWED AT PLASTER OPTION WHERE RAMP IS AGAINST THE WALL. SEE DETAIL 11R-2.01 FOR SIMILAR APPLICATION

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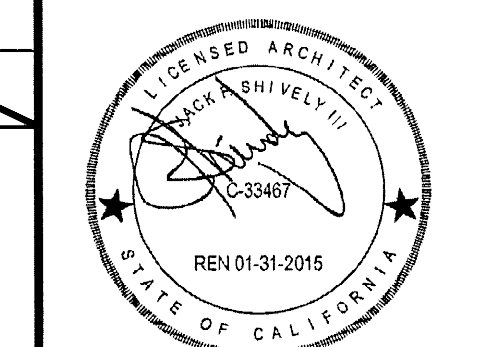
SILVER CREEK INDUSTRIES, INC.



2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

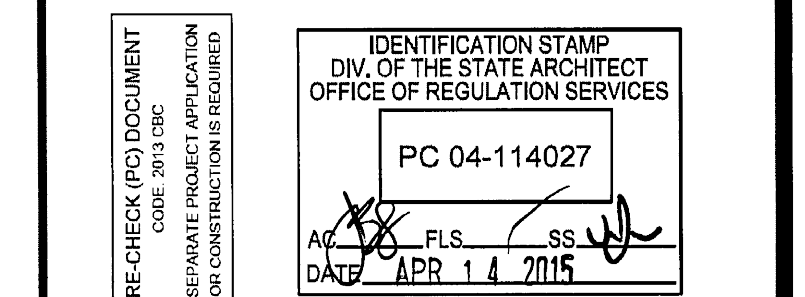
SHEET TITLE:
EXTERIOR ELEVATION
48' TO 120' X 40'
MONO SLOPE



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

P.C. SHEET NUMBER
A-4.04

DETAIL SCHEDULE	
FINISH:	SHEET #:
<input checked="" type="checkbox"/> SIDING OVER WOOD STUDS (W/VI COMPLIANT DURATEMP)	A-5.50
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
<input type="checkbox"/> SIDING OVER STEEL STUDS	A-5.60
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61
FIRE RATED DETAIL SCHEDULE	
FINISH:	SHEET #:
<input type="checkbox"/> 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
<input type="checkbox"/> 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63
FLOOR OPTION	
<input checked="" type="checkbox"/> WOOD FLOOR	
<input type="checkbox"/> CONCRETE FLOOR	

NOTES

MOISTURE PROTECTION AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS. SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD. COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.

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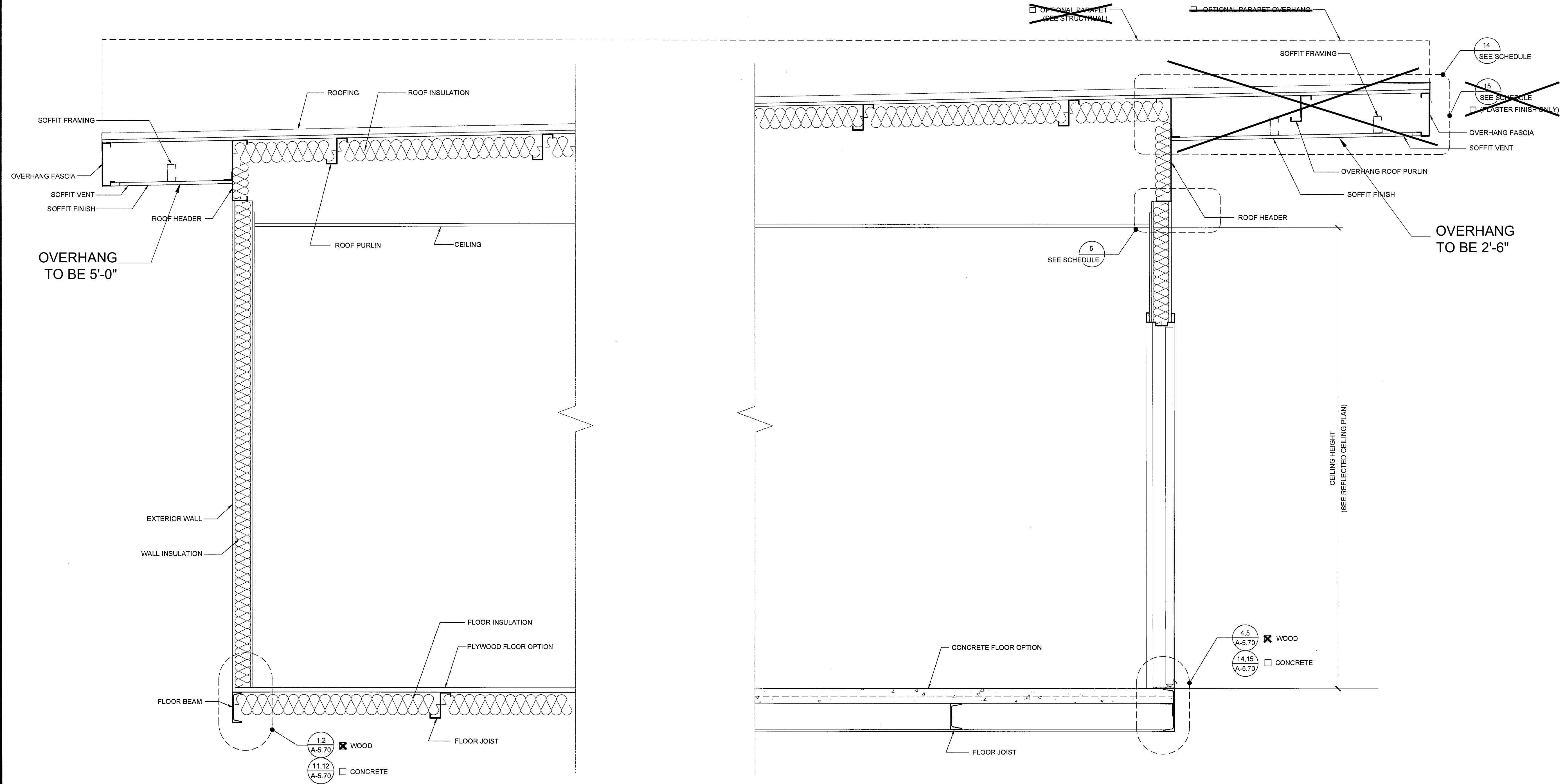
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SILVER CREEK INDUSTRIES, INC.

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
**PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING**



SHEET TITLE:
**CROSS SECTION
MONO SLOPE
0.018" OR BUILT UP ROOF DECK
OR PARAPET**

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
A SEPARATE PRELIMINARY APPROVAL
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
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PC 04-114027
AC: FLS 1/1/15
DATE: APR 1 11 2015

REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO.
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

P.C. SHEET NUMBER
A-5.01


DETAIL SCHEDULE		SHEET #:
<input checked="" type="checkbox"/> SINDING OVER WOOD STUDS (W/ULI COMPLIANT DURAPET)		A-5.50
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS		A-5.51
<input type="checkbox"/> SINDING OVER STEEL STUDS		A-5.60
<input type="checkbox"/> PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS		A-5.61
FIRE RATED DETAIL SCHEDULE		
FINISH:		SHEET #:
<input type="checkbox"/> 1 HOUR - SINDING OVER WOOD STUDS		A-5.52
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS		A-5.53
<input type="checkbox"/> 1 HOUR - SINDING OVER STEEL STUDS		A-5.62
<input type="checkbox"/> 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS		A-5.63
FLOOR OPTION		
<input checked="" type="checkbox"/> WOOD FLOOR		
<input type="checkbox"/> CONCRETE FLOOR		

<div></div>	<h1>NOTES</h1>
<div></div>	<p>MOISTURE PROTECTION AND CAULKING: GENERAL: FURNISH AND INSTALL ALL CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING. MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING. APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS. SEALANT SHALL BE APPLIED WITH A GUN TO STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOL. AFTER THE BAKING, MAKING A SMOOTH CONVEX BEAD. COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT SURFACES.</p>

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SILVER CREEK INDUSTRIES, INC.



"BUILDING FOR THE NEXT GENERATION"

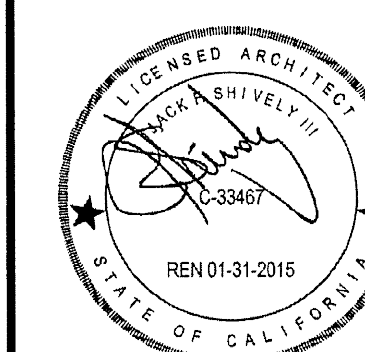
SILVER CREEK

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PERRIS, CALIF 92464-3333 TEL: 951-844-2221
FAX: 951-844-2221

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE

CROSS SECTION

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL _____

ORIGINAL PC STATE AGENCY APPROVAL _____

E-CHECK (PC) DOCUMENT
 CODE: 2013 CRC
 SEPARATE PROJECT APPLICATION
 CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 PC 04-114027
 AC _____ ELS _____ SS _____
 DATE APR 14 2015

REVISIONS

1. _____

2. _____

3. _____

4. _____

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SILVER CREEK INDUSTRIES
24" x 40" PC (HIGH SEISMIC)

PROJECT NO.

DRAWN BY:

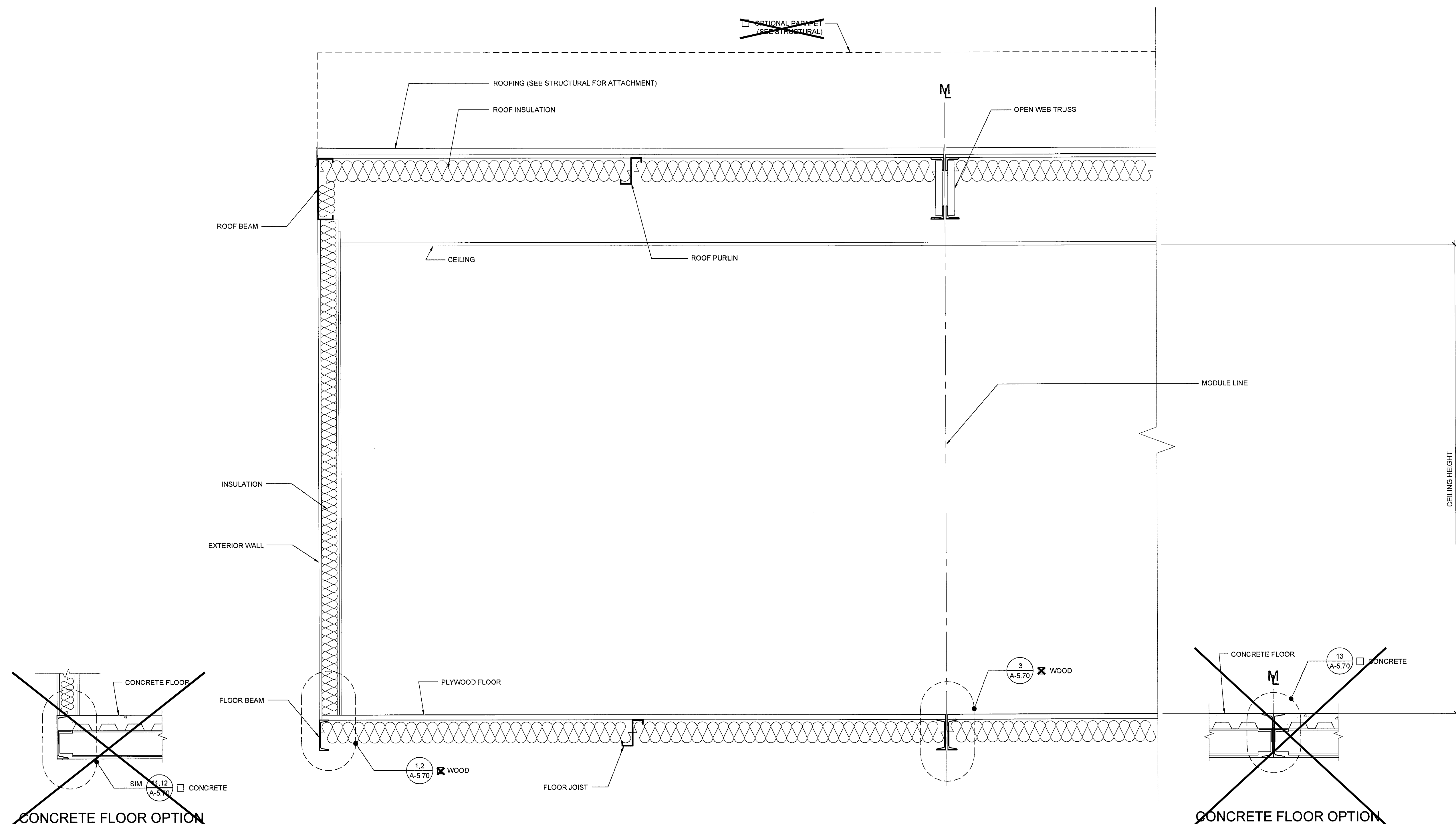
SCALE: AS NOTED

DATE: 0

P.C. SHEET NUMBER

1000

A-5.05



BUILDING SECTION

SCALE: 1" = 1'-0"	1
-------------------	---

1	1
---	---

HVAC MOUNT AT JAMBS SCALE: 3"=1'-0"	WINDOW SECTION AT JAMBS SCALE: 3"=1'-0"	EXTERIOR DOOR HEADER SCALE: 3"=1'-0"	CLOSURE BETWEEN BUILDINGS SCALE: 3"=1'-0"
HVAC UNIT AT BOTTOM SCALE: 3"=1'-0"	WINDOW HEADER SCALE: 3"=1'-0"	EXTERIOR DOOR JAMB SCALE: 3"=1'-0"	COLUMN AT CORNER SCALE: 3"=1'-0"
HVAC UNIT (PLAN) SCALE: 1"=1'-0"	WINDOW SILL SCALE: 3"=1'-0"	EXTERIOR DOOR JAMB SCALE: 3"=1'-0"	COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP) SCALE: 3"=1'-0"
NOT USED			
NOT USED	SOFFIT AT ROOF HEADER WITH VENT SCALE: 3"=1'-0"	INTERIOR DOOR JAMB SCALE: 3"=1'-0"	COLUMN AT MODULE LINE (CLOSURE STRIP) SCALE: 3"=1'-0"
NOT USED	NOT USED		
NOT USED	NOT USED	INTERIOR DOOR JAMBS SCALE: 3"=1'-0"	TOP PLATE AT ROOF HEADER SCALE: 3"=1'-0"

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SILVER CREEK INDUSTRIES, INC.

"BUILDING FOR THE NEXT GENERATION"

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
**PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING**

SHEET TITLE:
**ARCHITECTURAL DETAILS
WOOD STUD - SHTG**

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

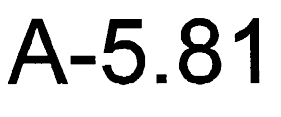
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114027
DATE: APR 14 2015

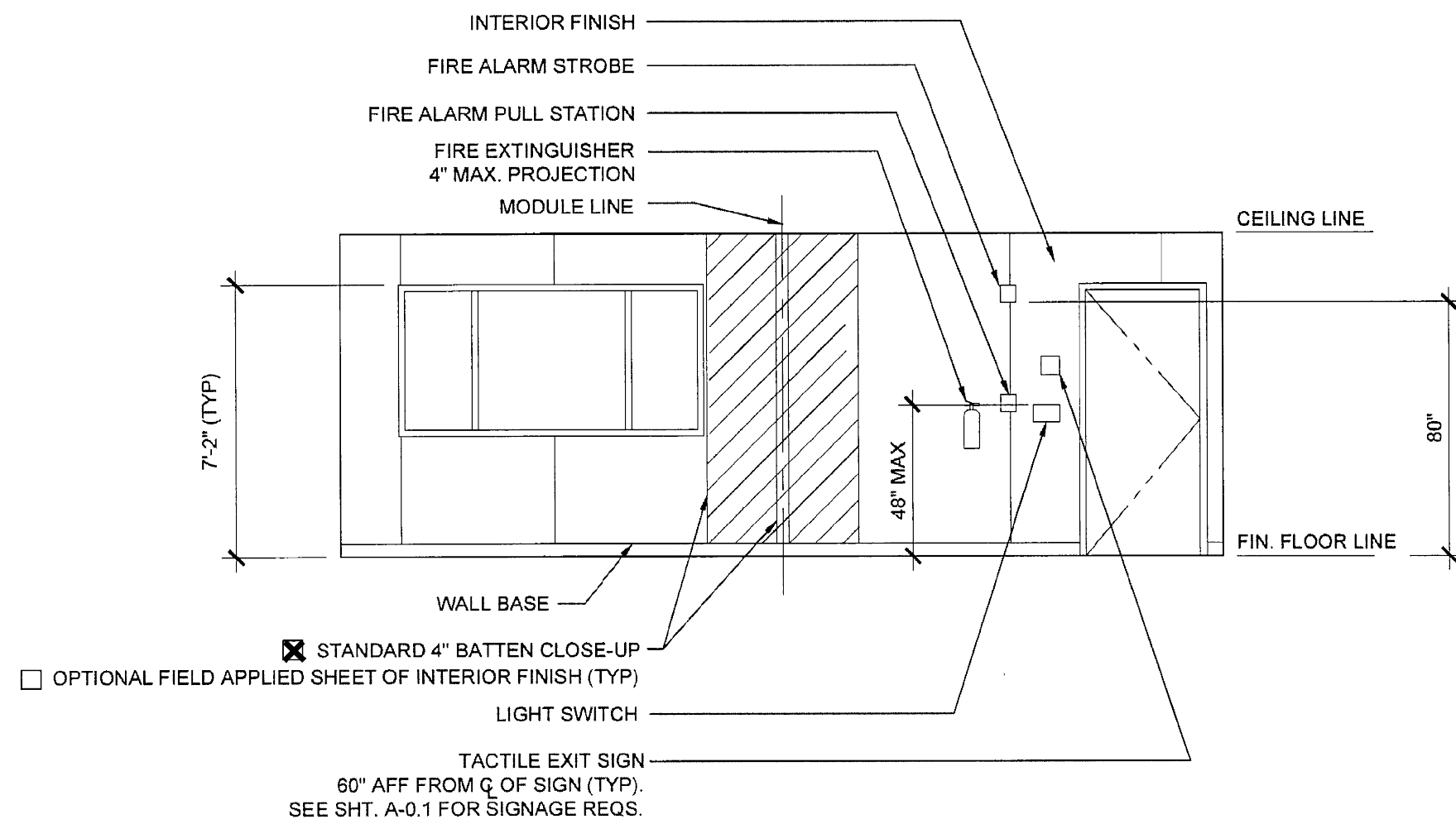
REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 08-10-14
P.C. SHEET NUMBER

A-5.50





FRONT ELEVATION

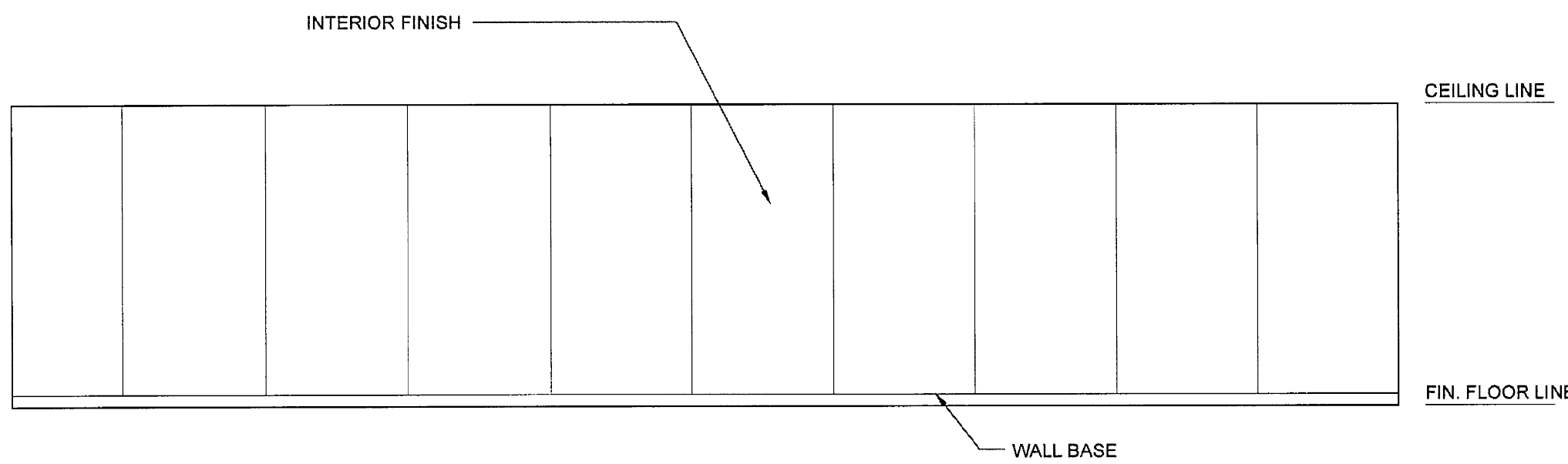
SCALE: 1/4" = 1'-0"

3

REAR ELEVATION

SCALE: 1/4" = 1'-0"

1



SIDE ELEVATION

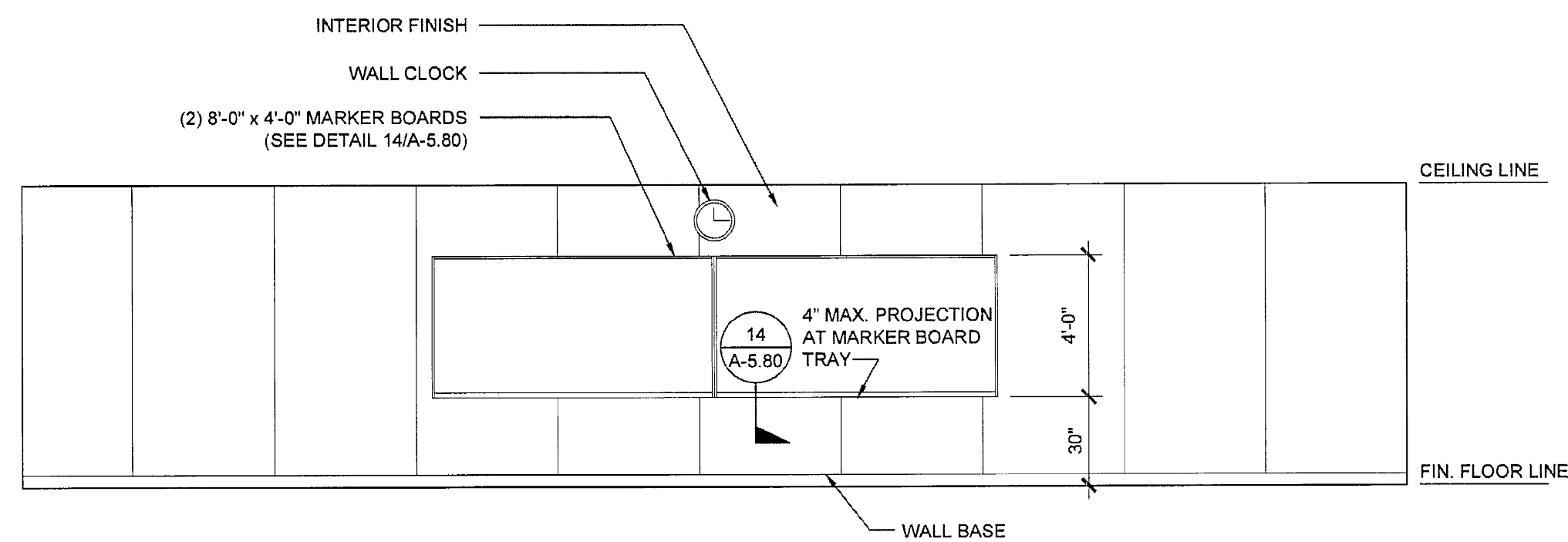
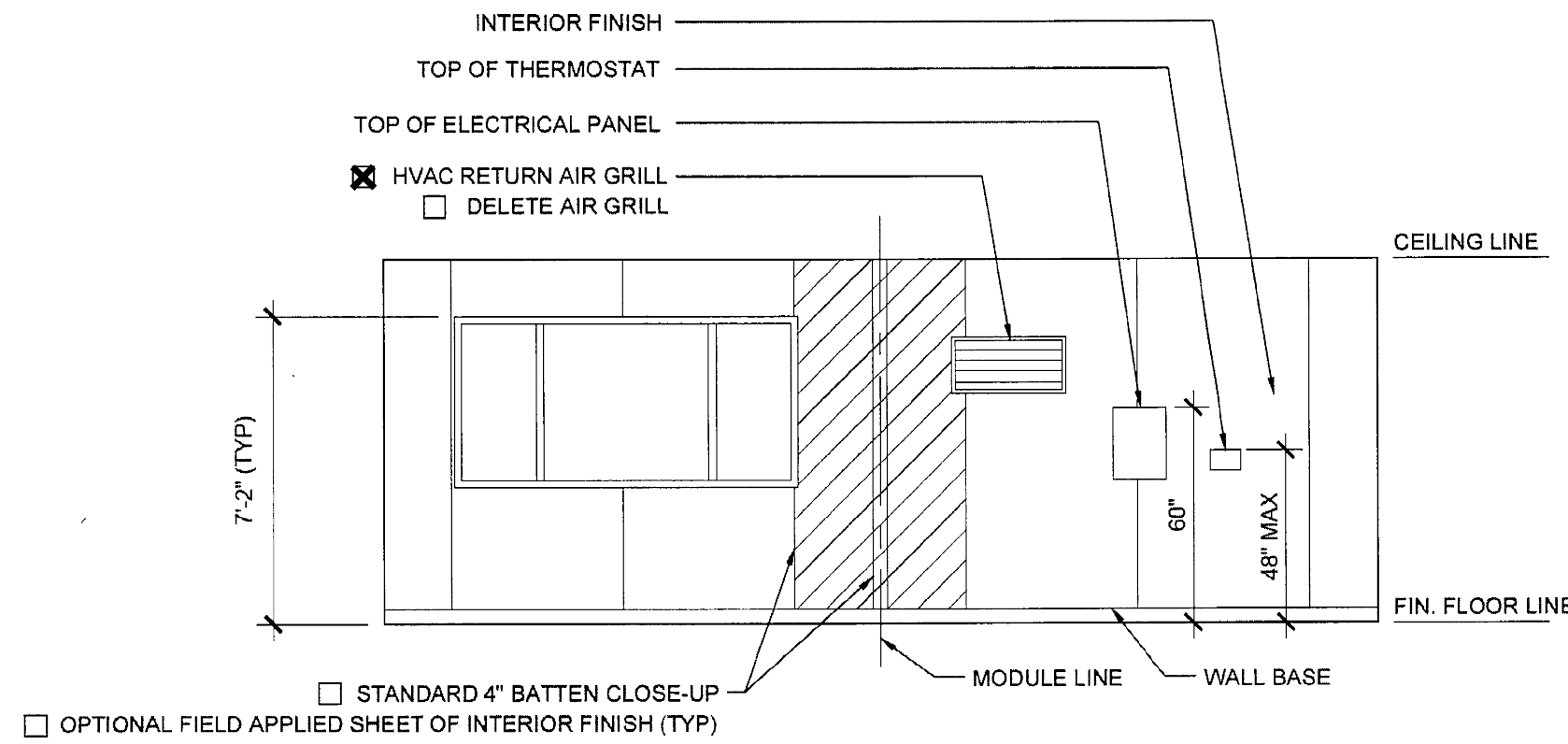
SCALE: 1/4" = 1'-0"

4

SIDE ELEVATION

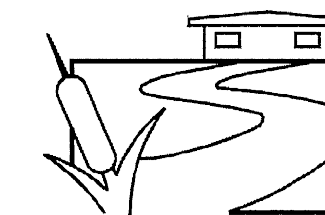
SCALE: 1/4" = 1'-0"

2



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"BUILDING FOR THE NEXT GENERATION"

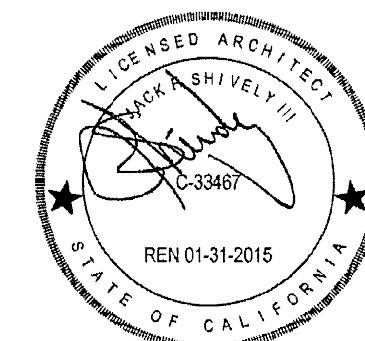
SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:

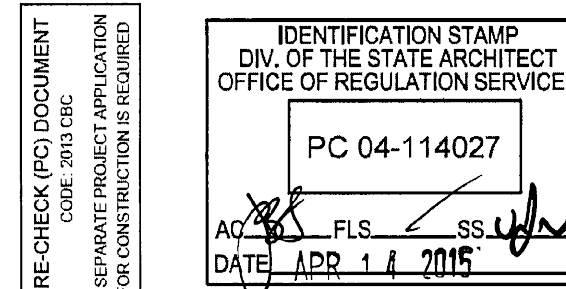
INTERIOR ELEVATION
24' x 40'



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

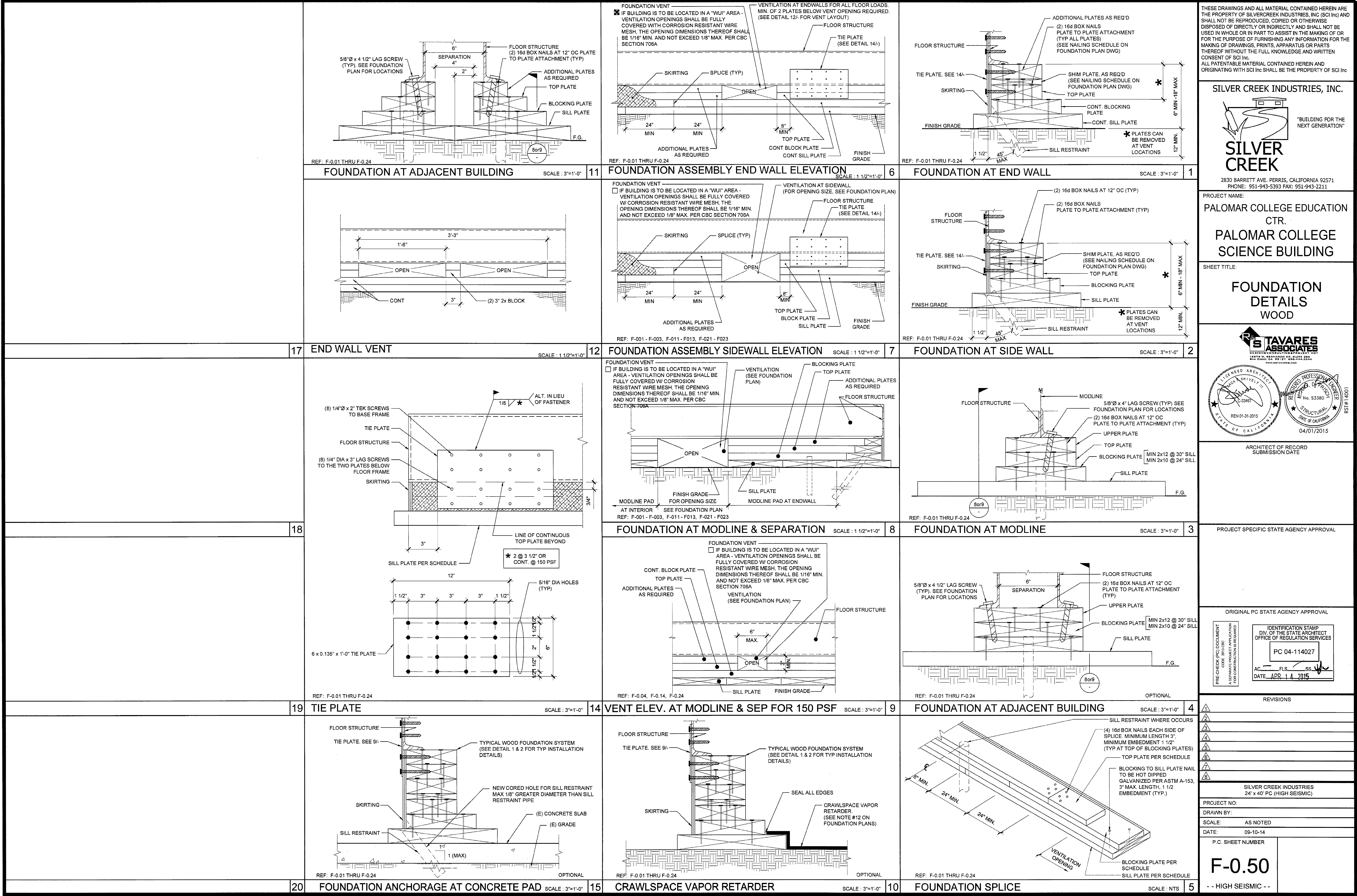


REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14
P.C. SHEET NUMBER

A-6.01



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"BUILDING FOR THE NEXT GENERATION"

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
FOUNDATION DETAILS WOOD

STAVARES ASSOCIATES
REGISTERED ARCHITECT
No. S3380
REV 01/31/2015
04/01/2015

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114027
AC: FLS SS
DATE: APR 14 2015

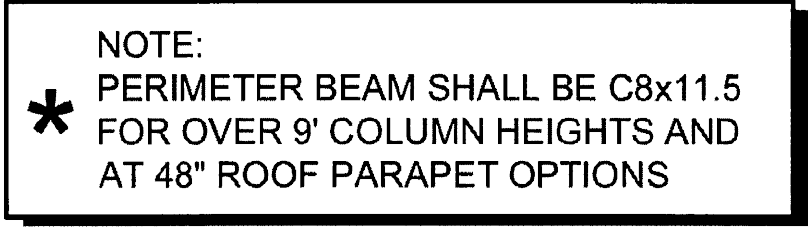
REVISIONS

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SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 08-10-14

P.C. SHEET NUMBER
F-0.50
-- HIGH SEISMIC --



1. FOR FLOOR BLOCKING SEE DETAILS
4.7B / S-1.50 (STD),
4.7A / S-1.50 (ALT)
2. FOR BUILDINGS ON WOOD FOUNDATION SYSTEMS.
PROVIDE 11/16" DIA. HOLE AT BOTTOM FLANGE OF FLOOR BEAM
FOR LAG SCREW ATTACHMENT TO FOUNDATION PLATES BELOW.
FOR EXACT HOLE LOCATIONS, SEE FOUNDATION PLAN.
3. FLOOR SHEATHING SHALL BE PRESSURE TREATED WOOD OR
NATURAL DURABLE IF BOTTOM OF WOOD IS LESS THAN 18" CLEAR
FROM TOP OF FINISHED GROUND SURFACE.
4. HSS COLUMN SCHEDULES ON SHEETS S-3.01 THRU S-3.04

	LIVE LOAD PSF	JOIST SPACING
<input type="checkbox"/>	50	48"
<input type="checkbox"/>	50 + 15	32"
<input checked="" type="checkbox"/>	100	24"
<input type="checkbox"/>	150	16"

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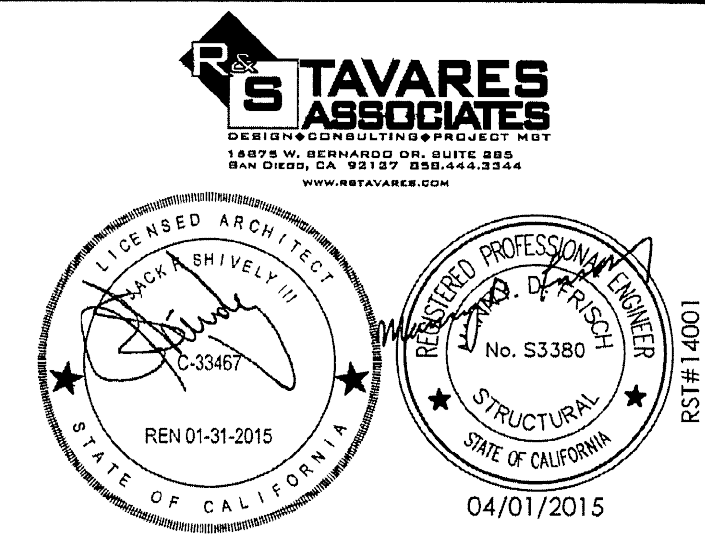


2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

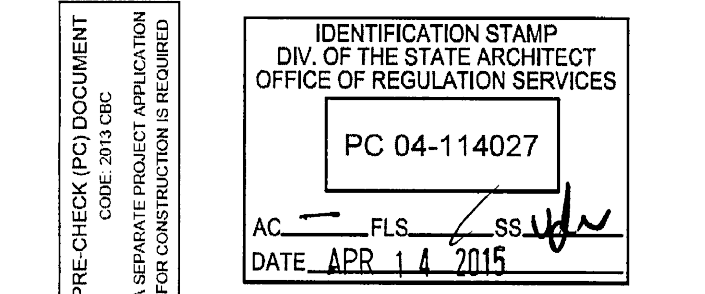
SHEET TITLE:

FLOOR FRAMING PLAN
WOOD FLOOR

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



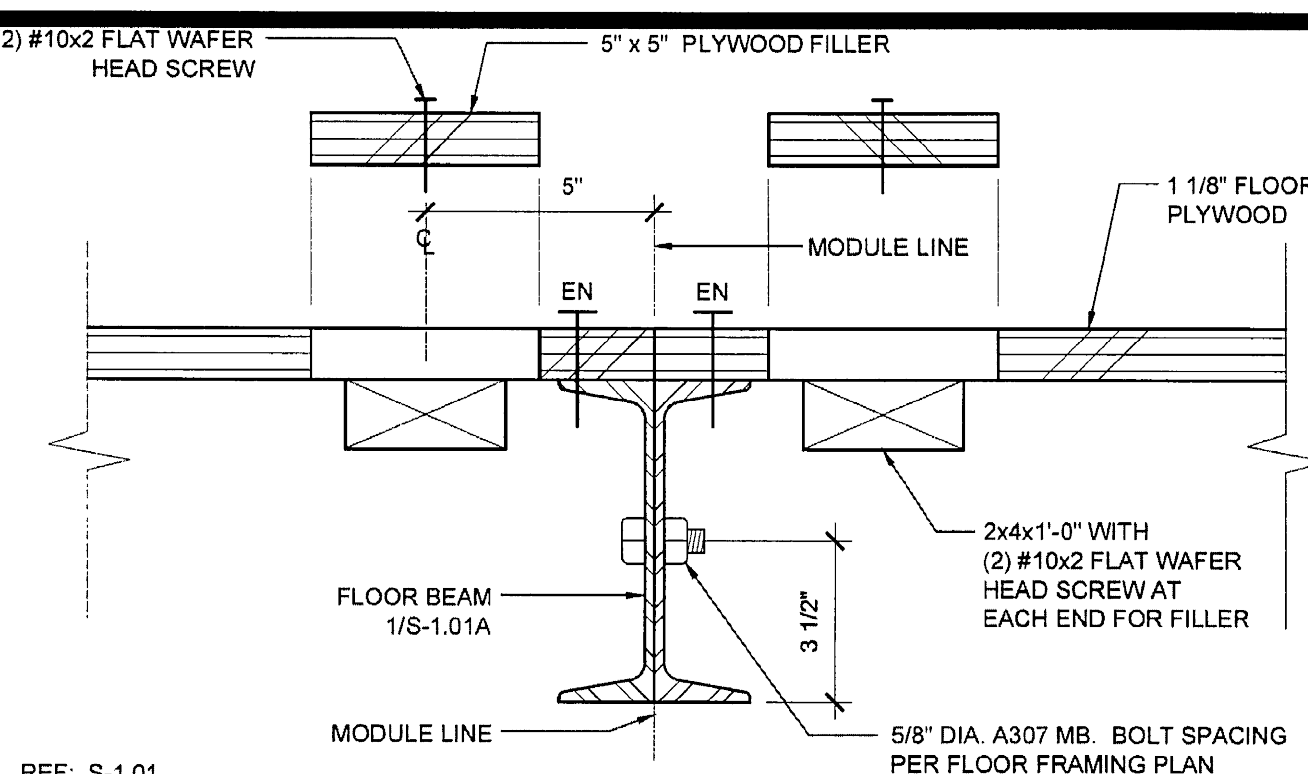
REVISIONS

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- 8.

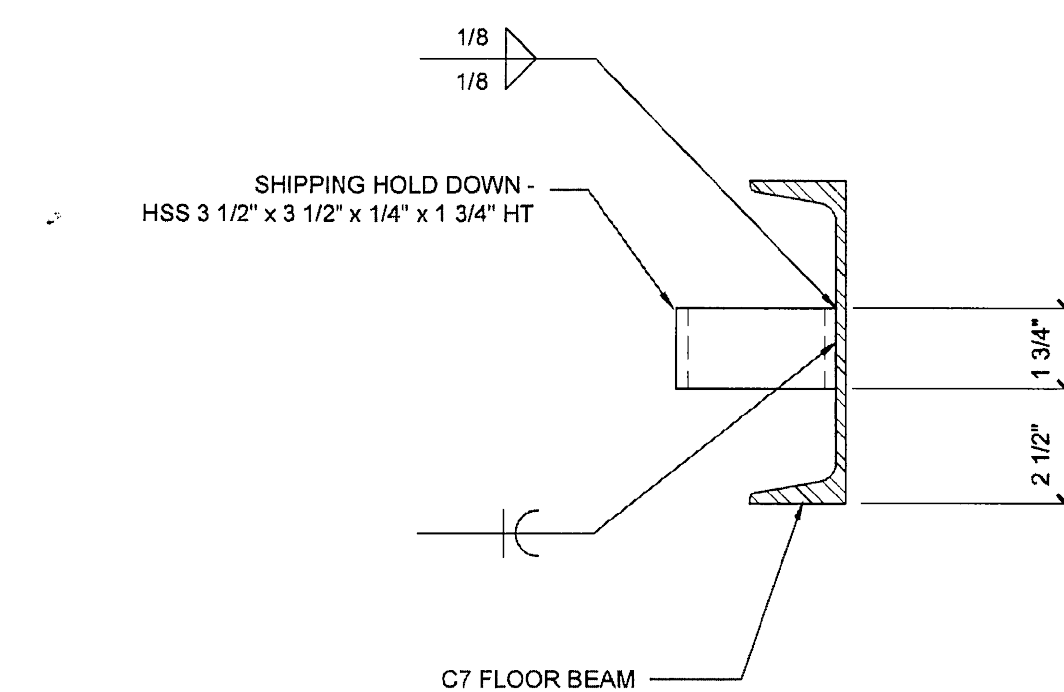
SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	09-10-14
P.C. SHEET NUMBER	

S-1.01
-- HIGH SEISMIC --



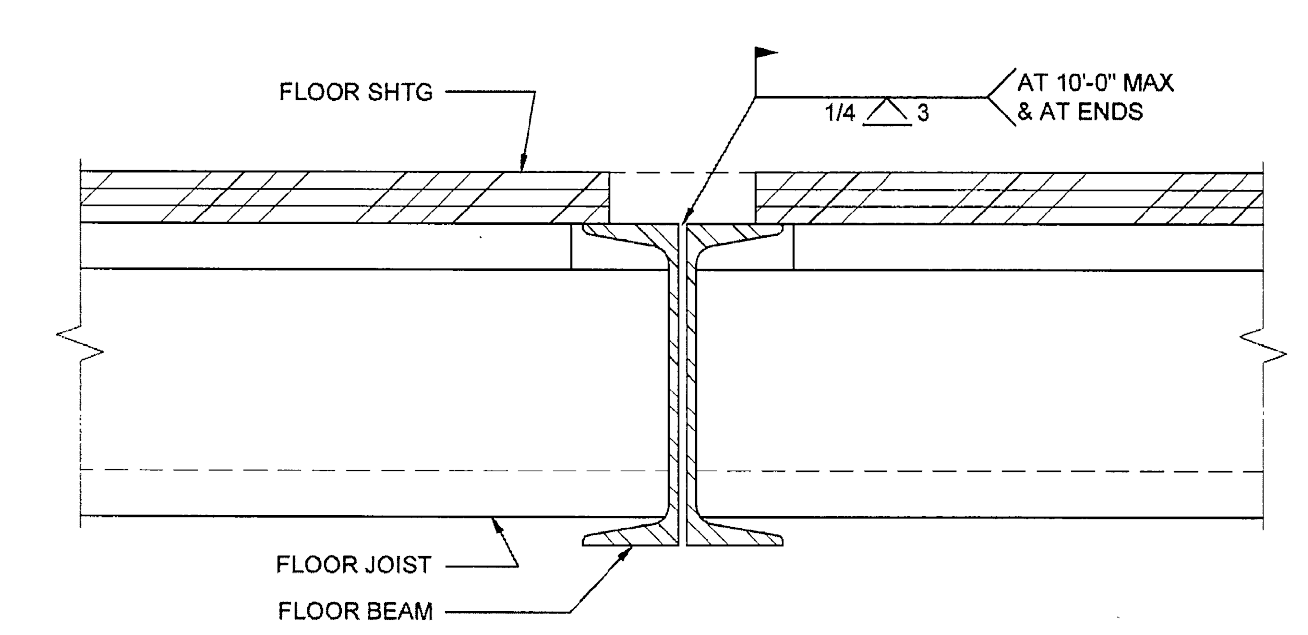
16	MODULE LINE - BOLTED CONNECTION	SCALE : 3" = 1'-0"	1
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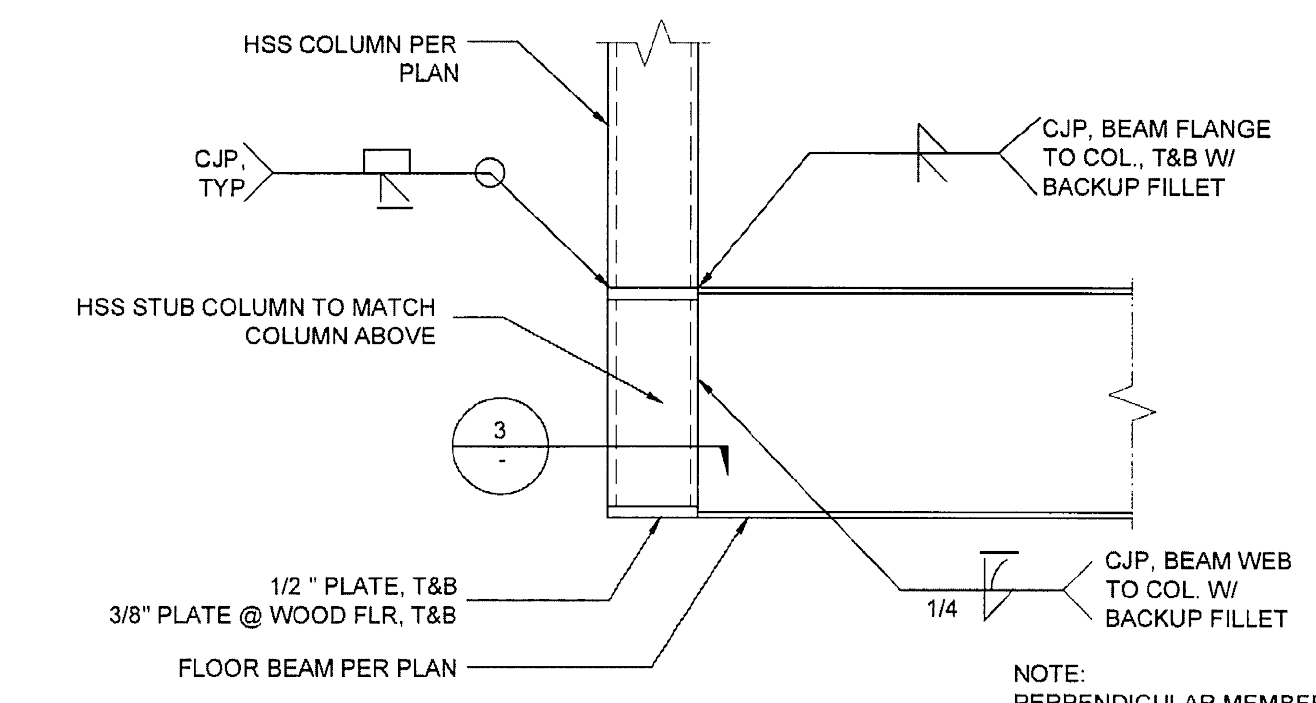
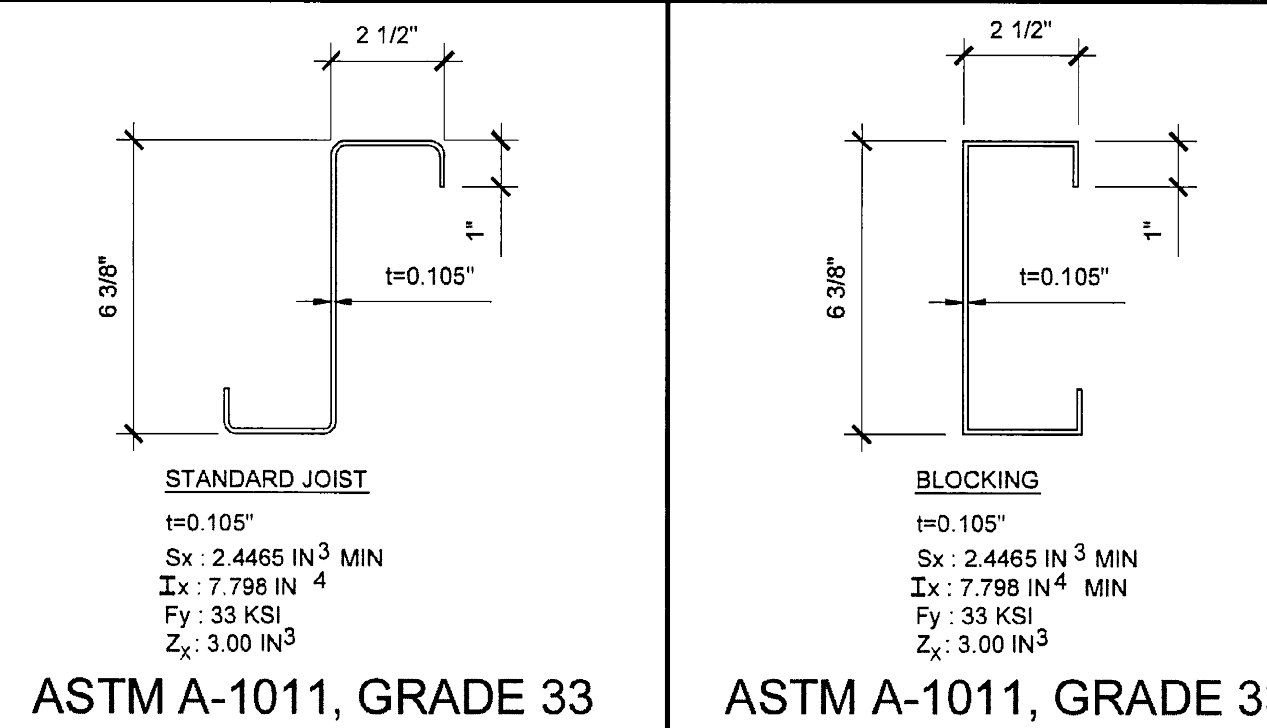
REF: S-1.01

SHIPPING HOLD DOWN DETAIL

SCALE: 3"=1'-0"

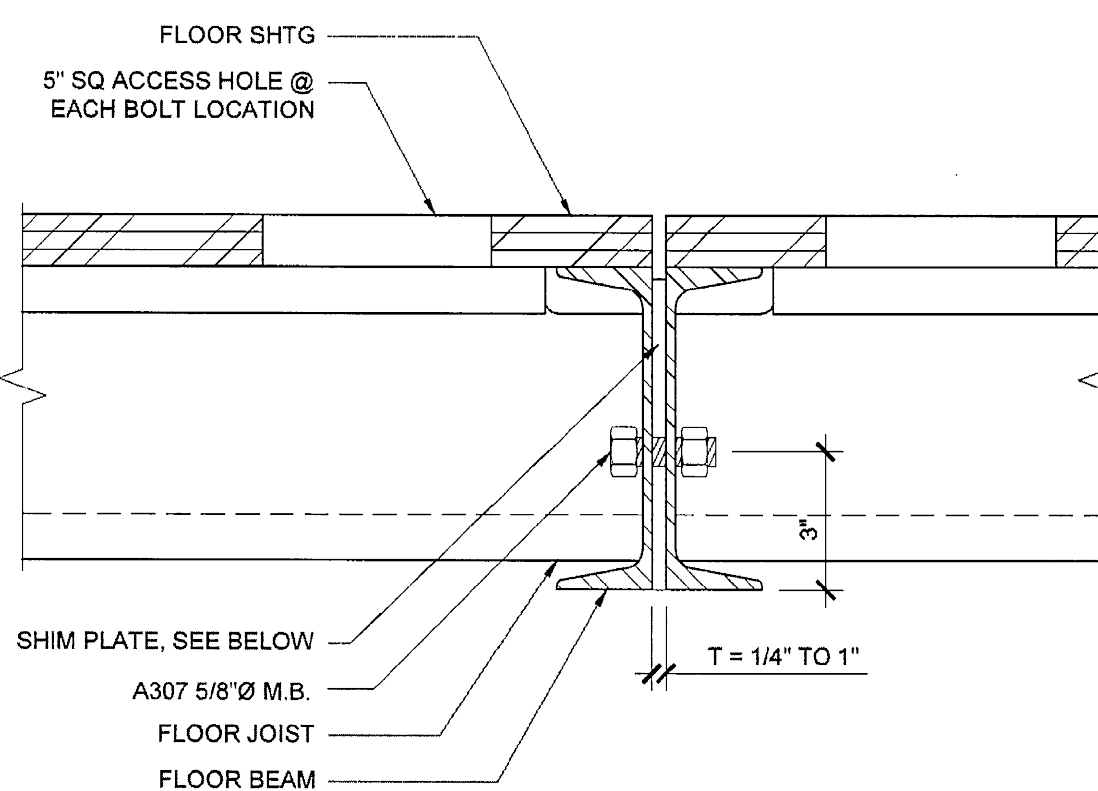


17	MODULE LINE CONNECTION (OPTION 1)	SCALE : 3"=1'-0"	1
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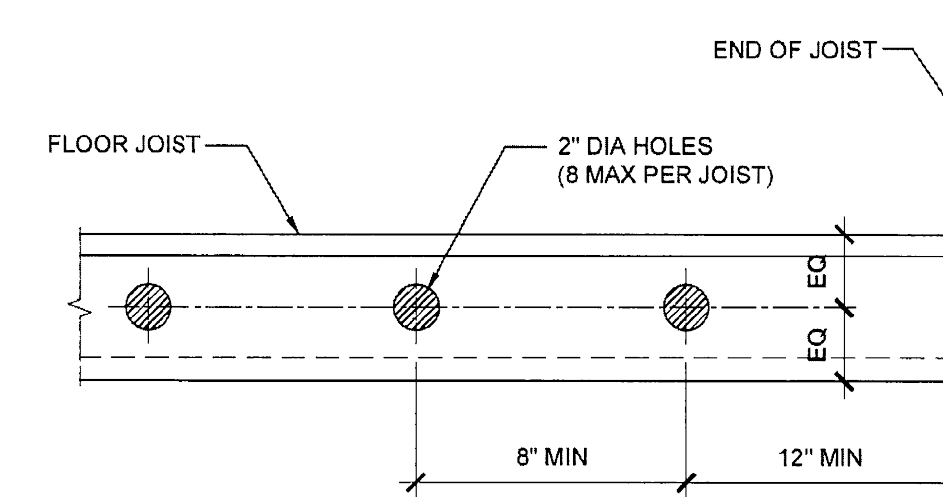


REF: S-1.01 NOT SHOWN FOR CLARITY

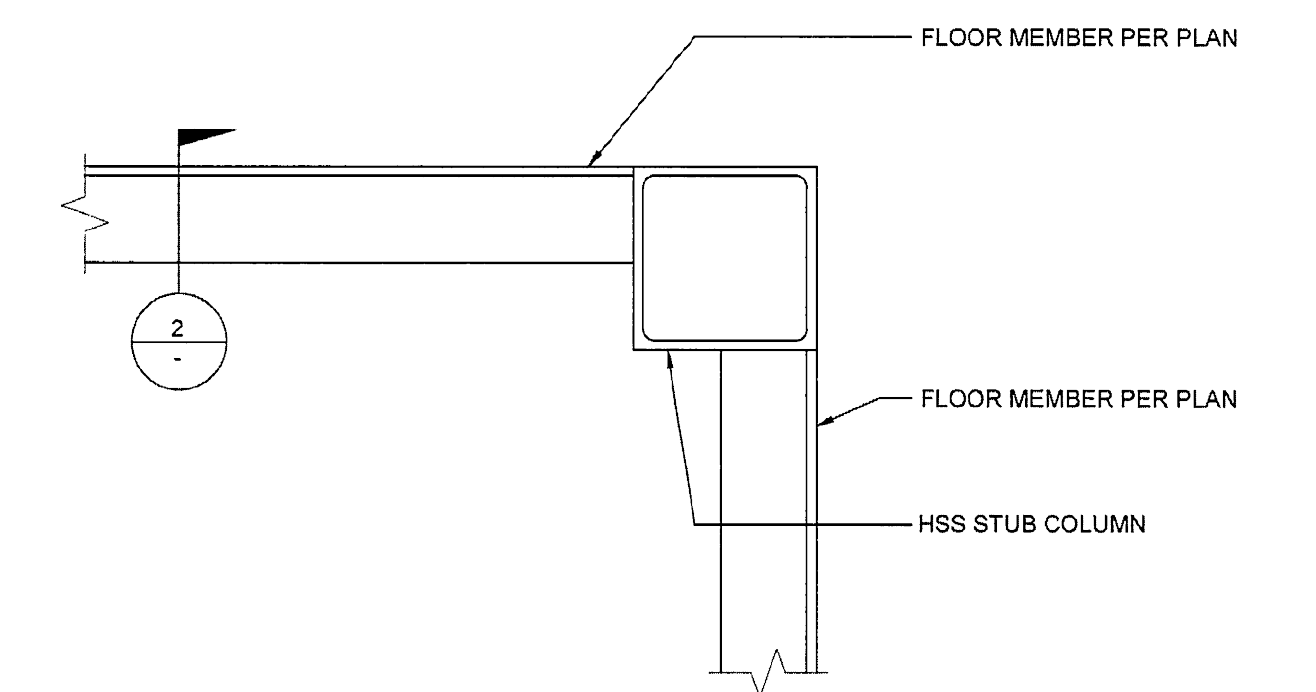
FLOOR BEAM TO COLUMN CONNECTION SCALE: 1 1/2" = 1'-0"



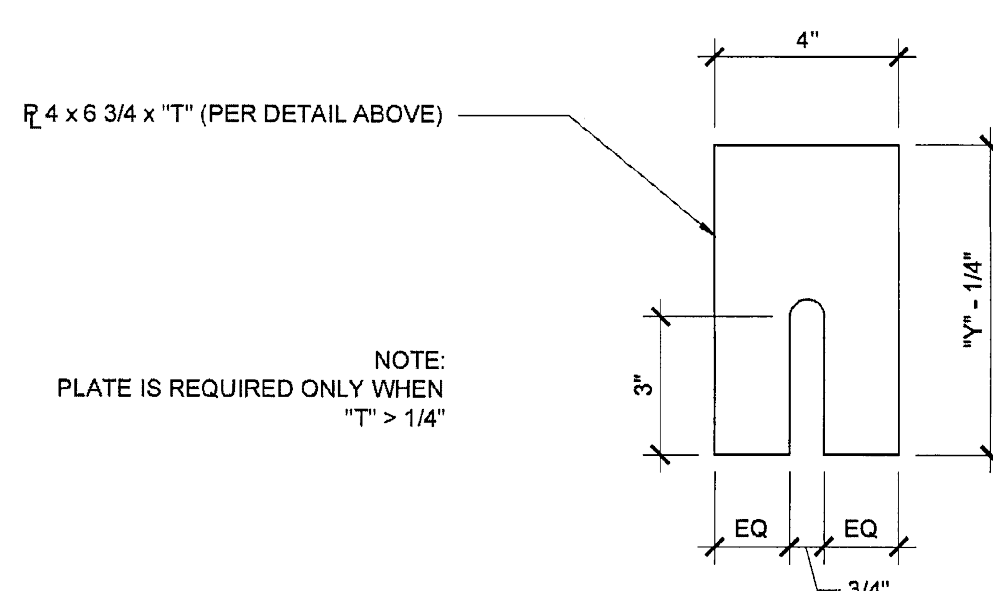
18 FLOOR JOIST _____
FLOOR BEAM _____



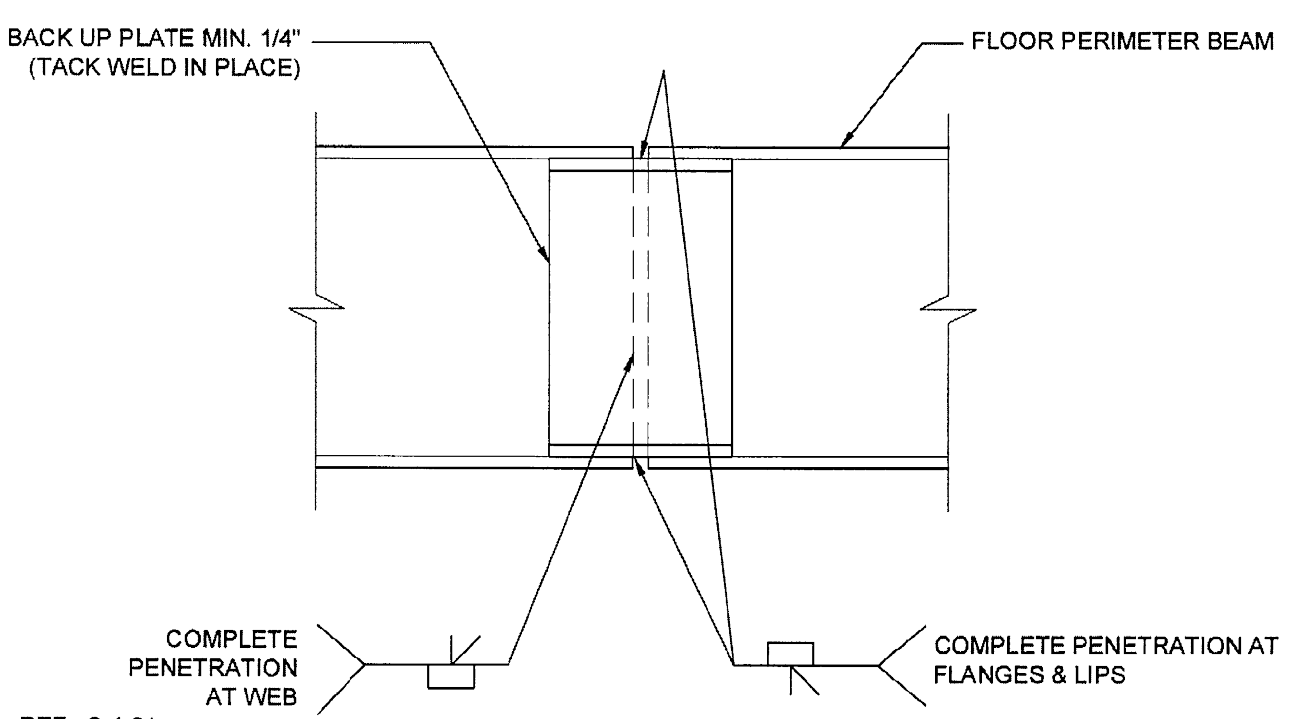
FLOOR JOIST HOLES (OPTIONAL) SCALE : 1/8" = 1'-0"



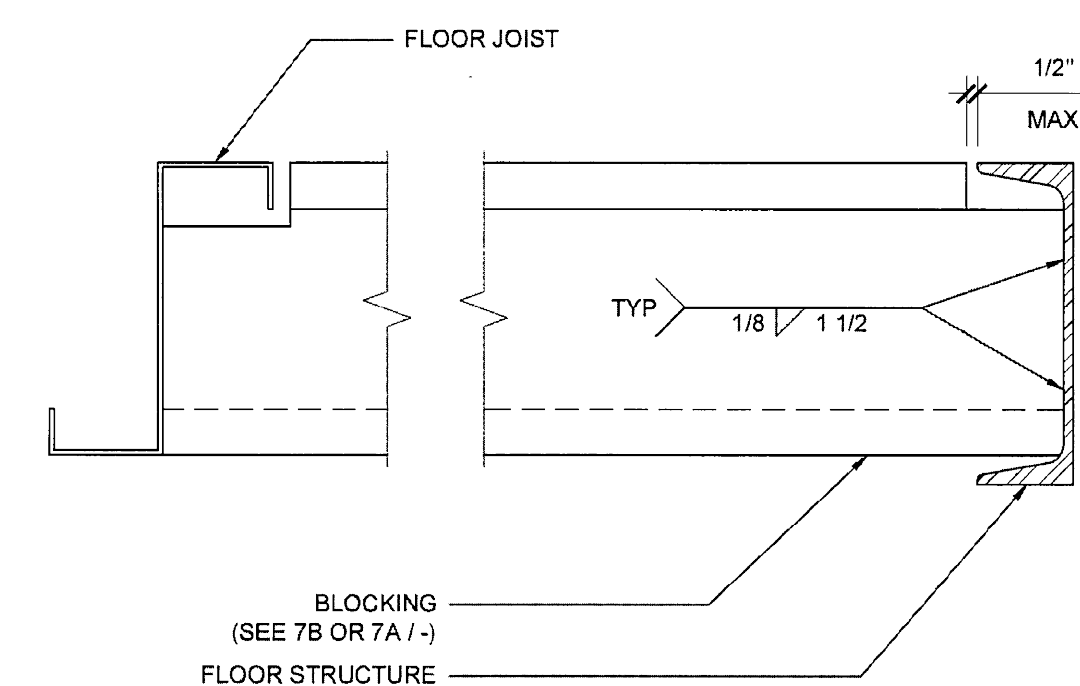
CORNER CONNECTION



19	MODULE LINE CONNECTION (OPTION 2)	SCALE: 3"=1'-0"	1
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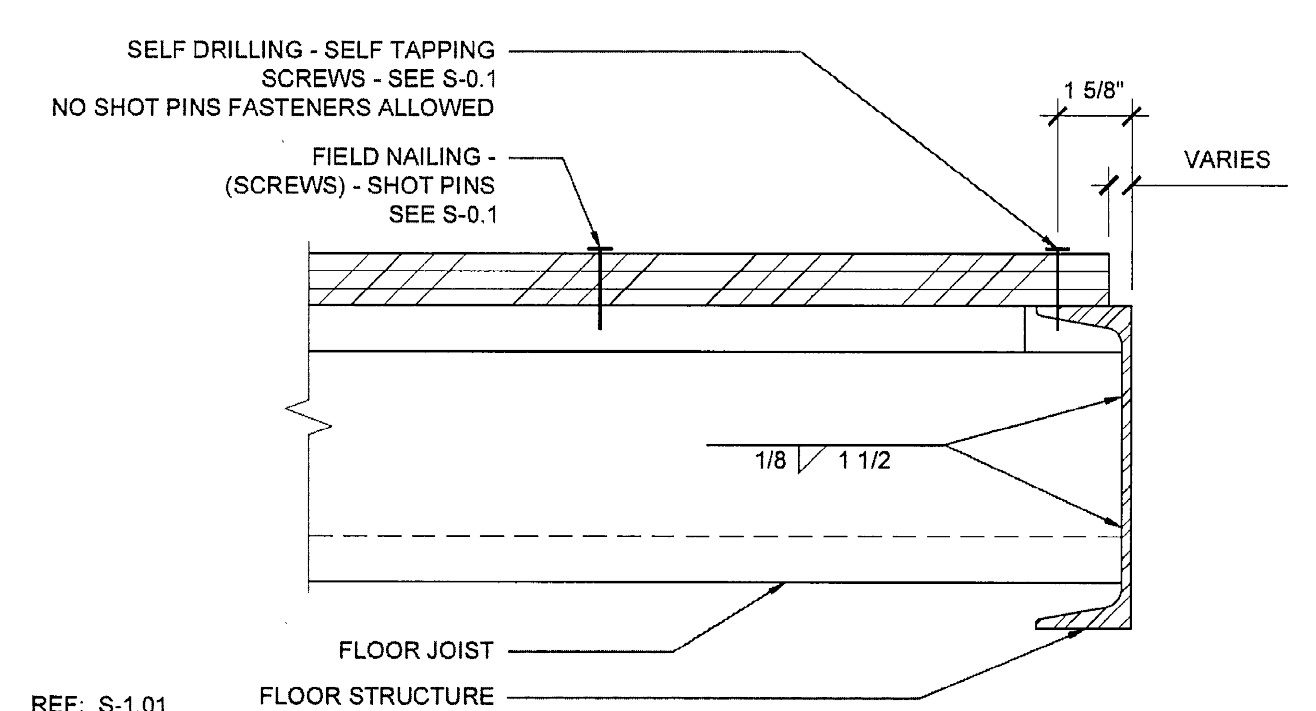
20	FLOOR BEAM SPLICE	SCALE : 3" = 1'-0"	1
----	-------------------	--------------------	---



REF: S-1.01

BLOCKING TO END BEAM

SCALE: 3" = 1'-0"



JOIST TO SIDE BEAM

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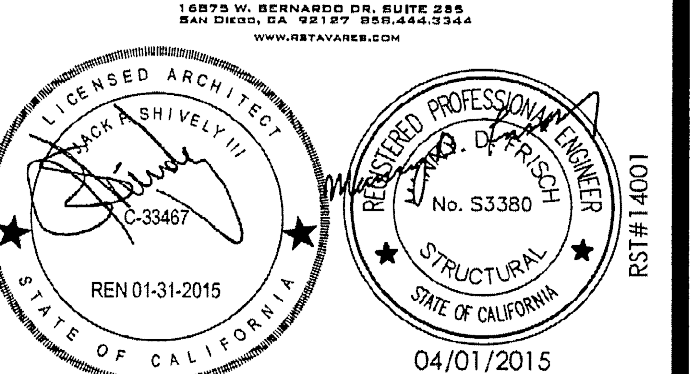


2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

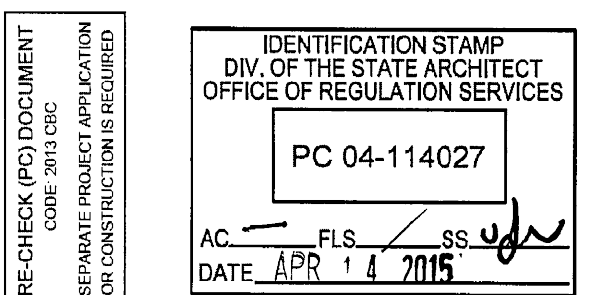
SHEET TITLE:

FLOOR FRMNG DETILS WOOD FLOOR

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

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3	
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8	

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:

DRAWN BY:

SCALE:	AS NOTED
DATE:	08-10-14

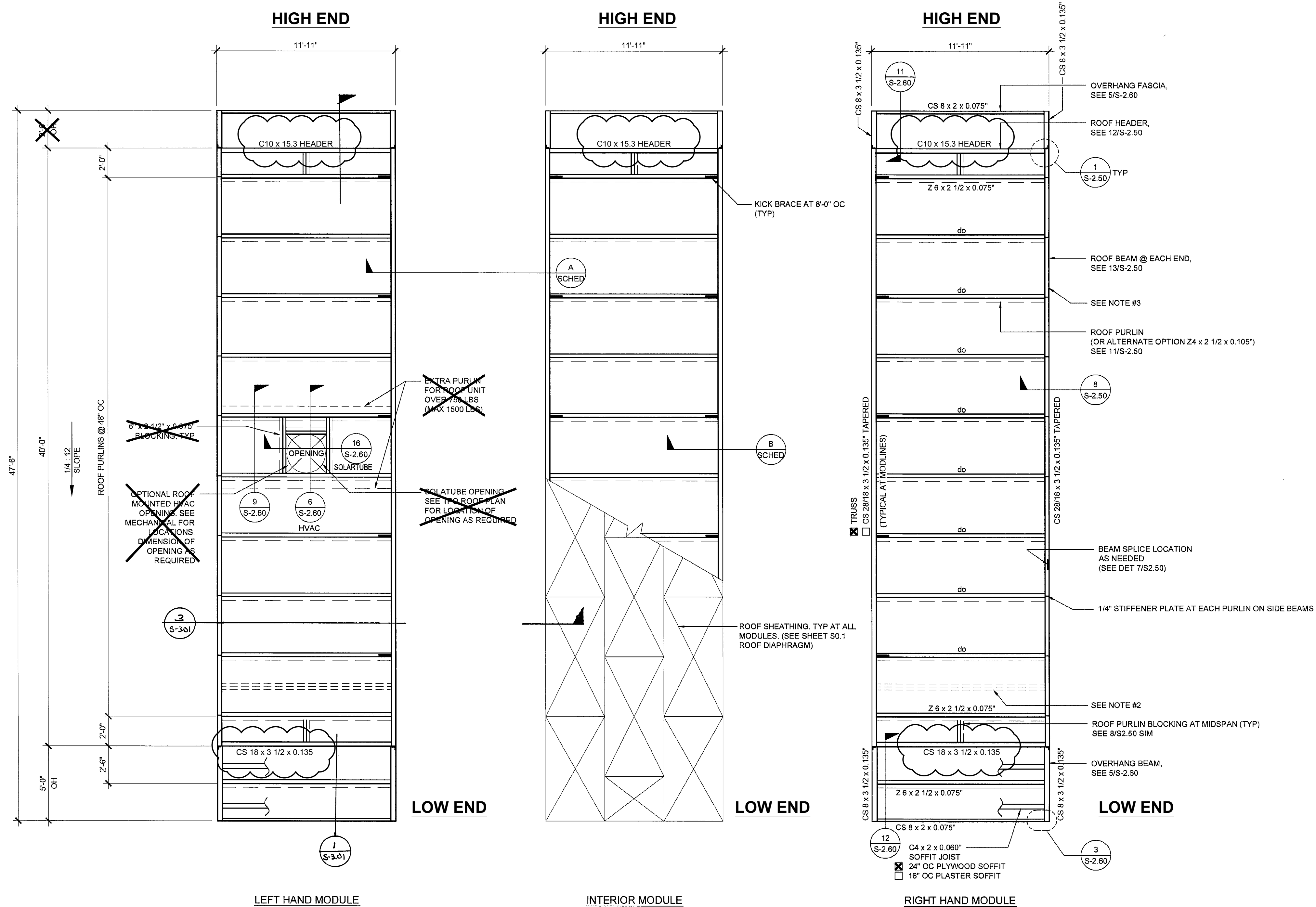
DATE:	09-10-14
P.C. SHEET NUMBER	

P.O. SHEET NUMBER

S-1 50

0-1.50

- - HIGH SEISMIC - -



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

NOTES

- FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5.15 / S-2.50 OR 5.15 / S-2.51 FOR DETAILS.
- OPTIONAL PURLIN FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S2.50 OR 14 / S2.51 DETAILS.
- FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS.

ROOF FRAME SCHEDULE AT MODLINES

- STANDARD TRUSS
 - "A" SEE DETAIL 7 / S-2.50
 - "B" SEE DETAIL 8 / S-2.50
- ALTERNATE OPTION - TAPERED ROOF BEAM
 - "A" SEE DETAIL 9 / S-2.50
 - "B" SEE DETAIL 8 / S-2.50

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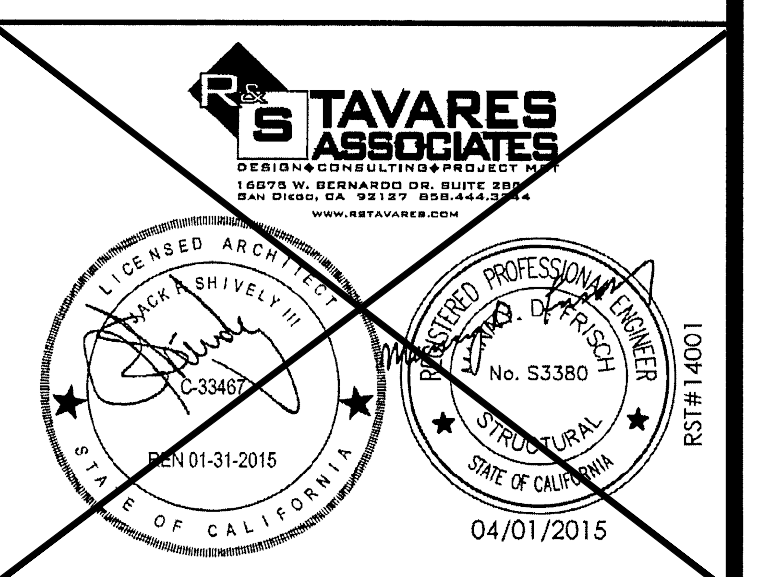
SILVER CREEK INDUSTRIES, INC.



2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE: 951-943-5303 FAX: 951-943-2211

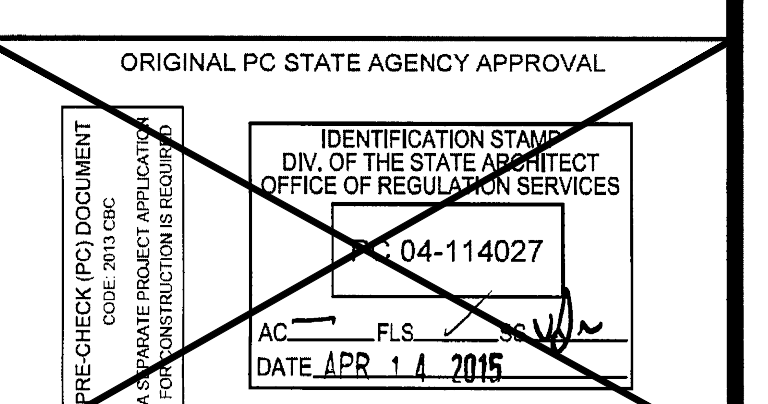
PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

SHEET TITLE:
ROOF FRAMING PLAN
0.018", B.U.R., OR TPO
MONO SLOPE



PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

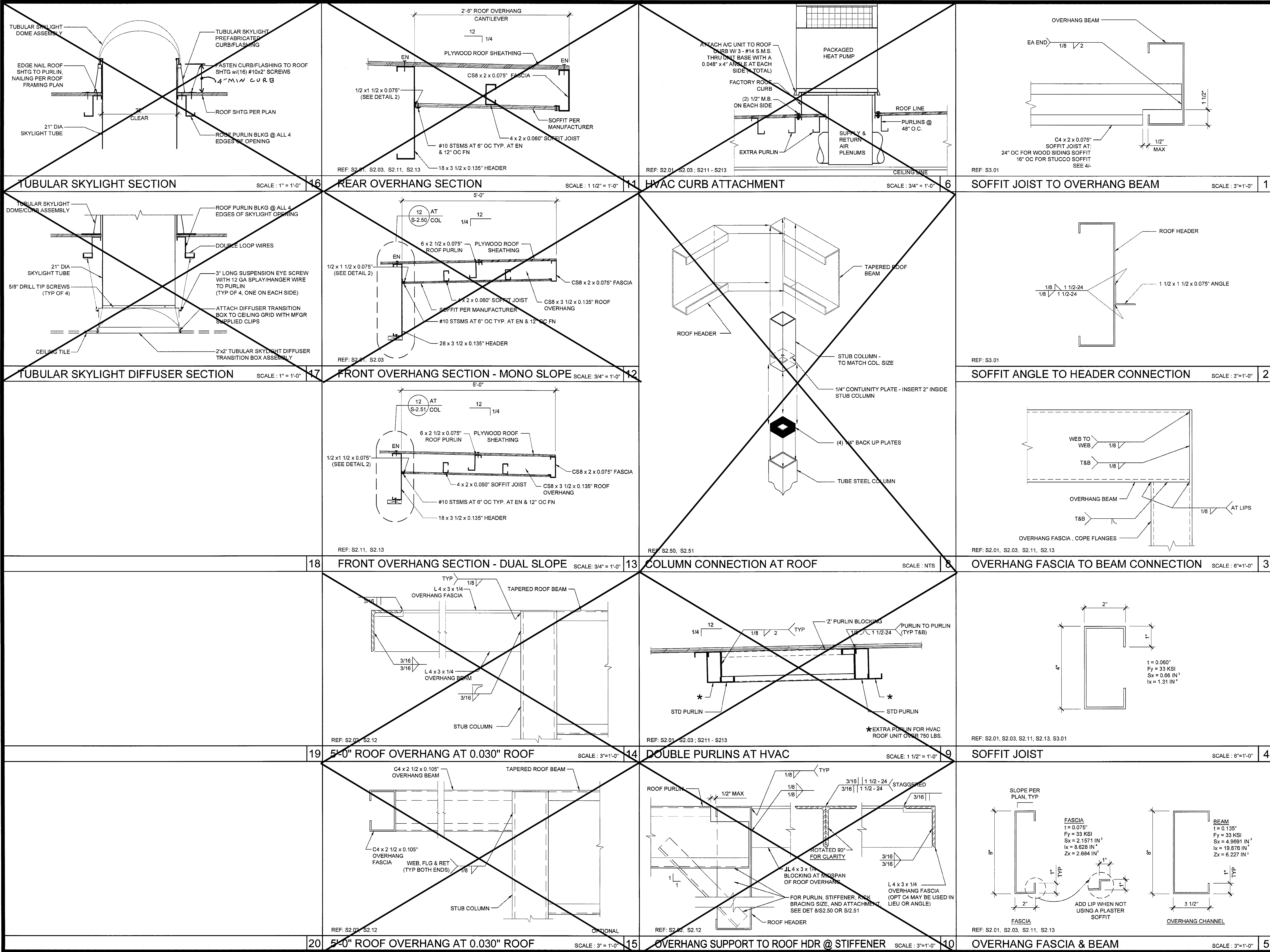


REVISIONS
PROJECT SPECIFIC REVISION

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO.
DRAWN BY:
SCALE: AS NOTED
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P.C. SHEET NUMBER
S-2.01
-- HIGH SEISMIC --



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SILVER CREEK INDUSTRIES, INC.

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
ROOF FRAMING DETAILS

TAVARES ASSOCIATES
REGISTERED ARCHITECT
No. 53380
STATE OF CALIFORNIA
RENOVATED 04/01/2015

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

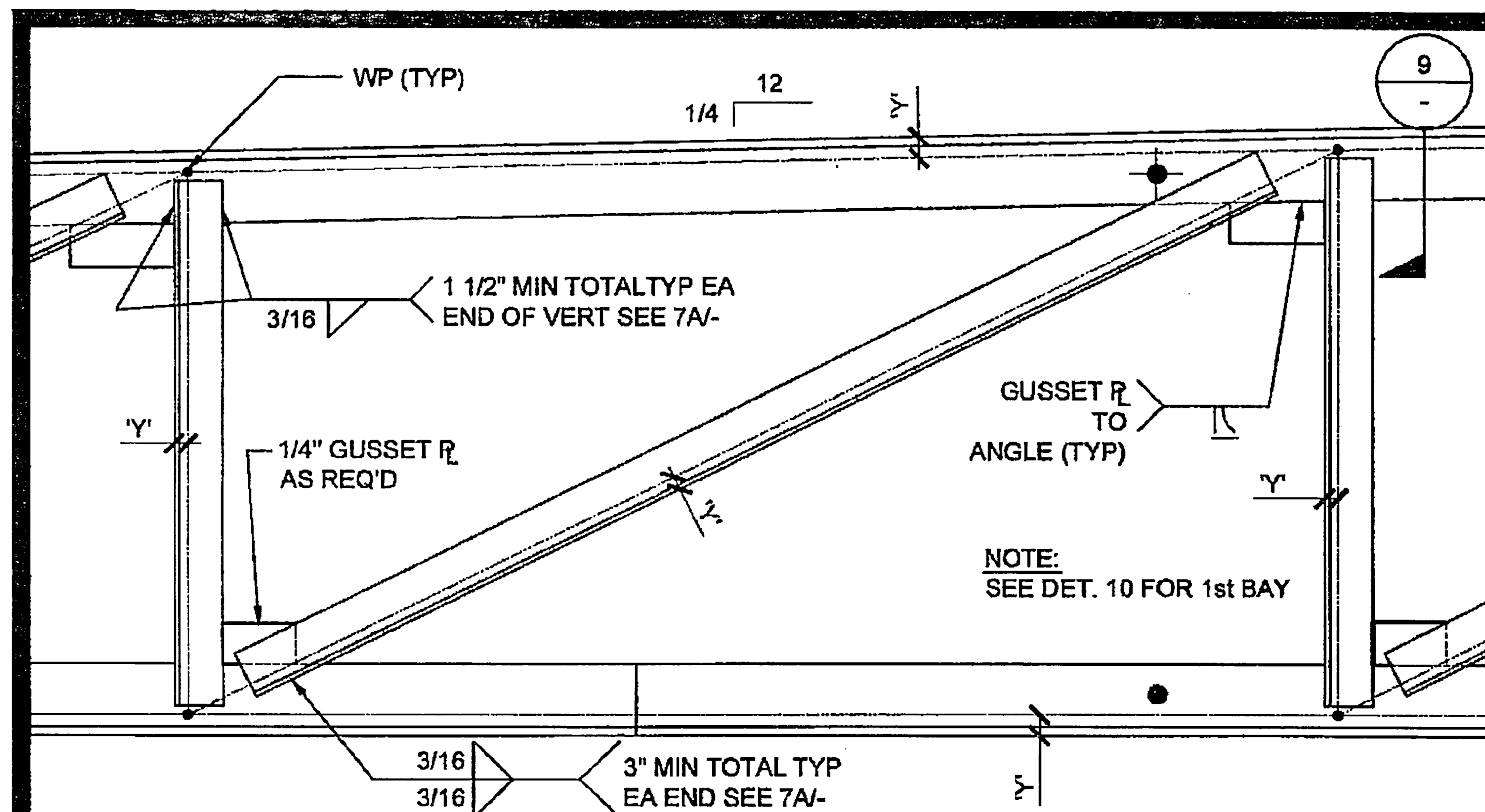
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114027
DATE: APR 14 2015

REVISIONS

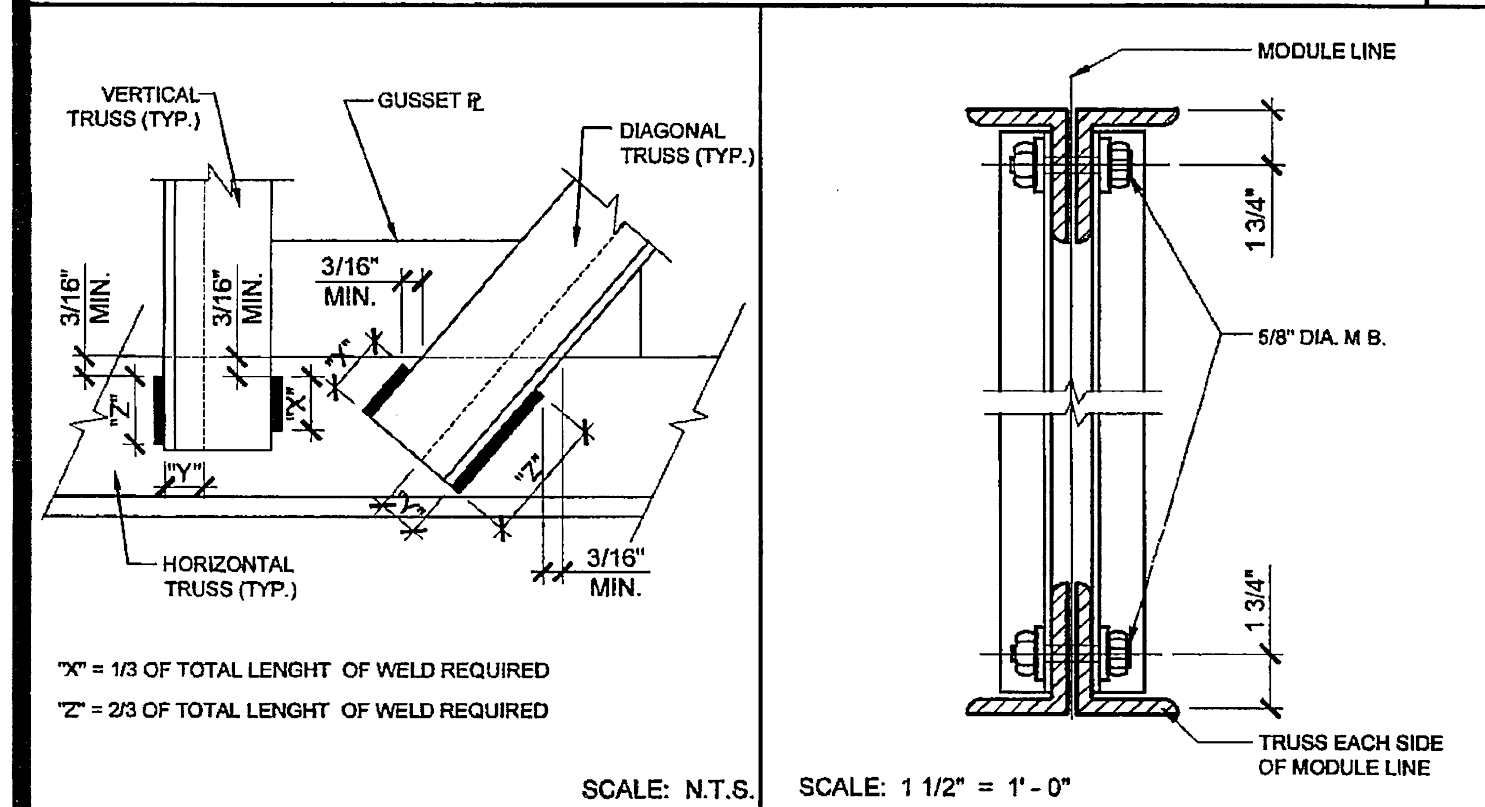
SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14
P.C. SHEET NUMBER

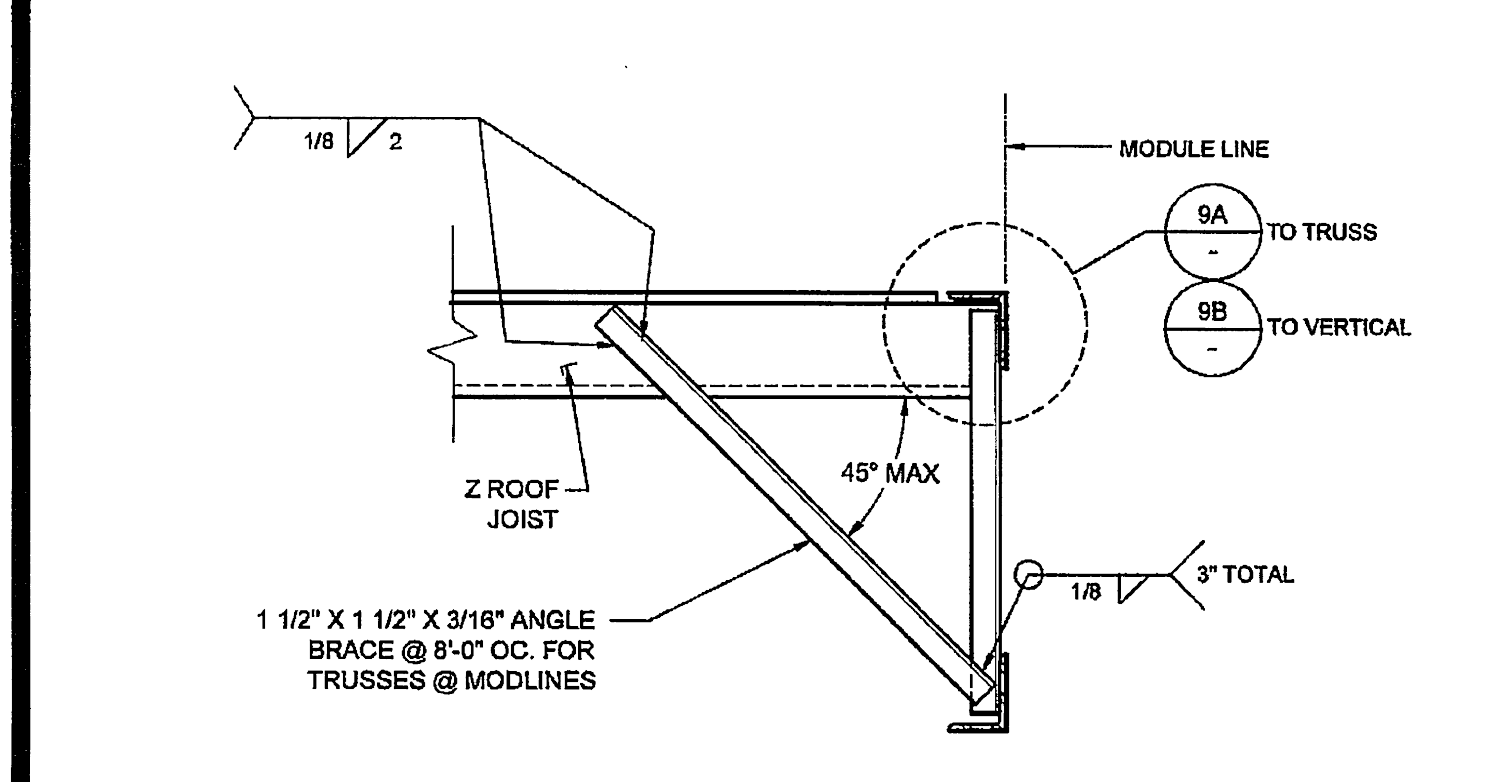
S-2.60
-- HIGH SEISMIC --



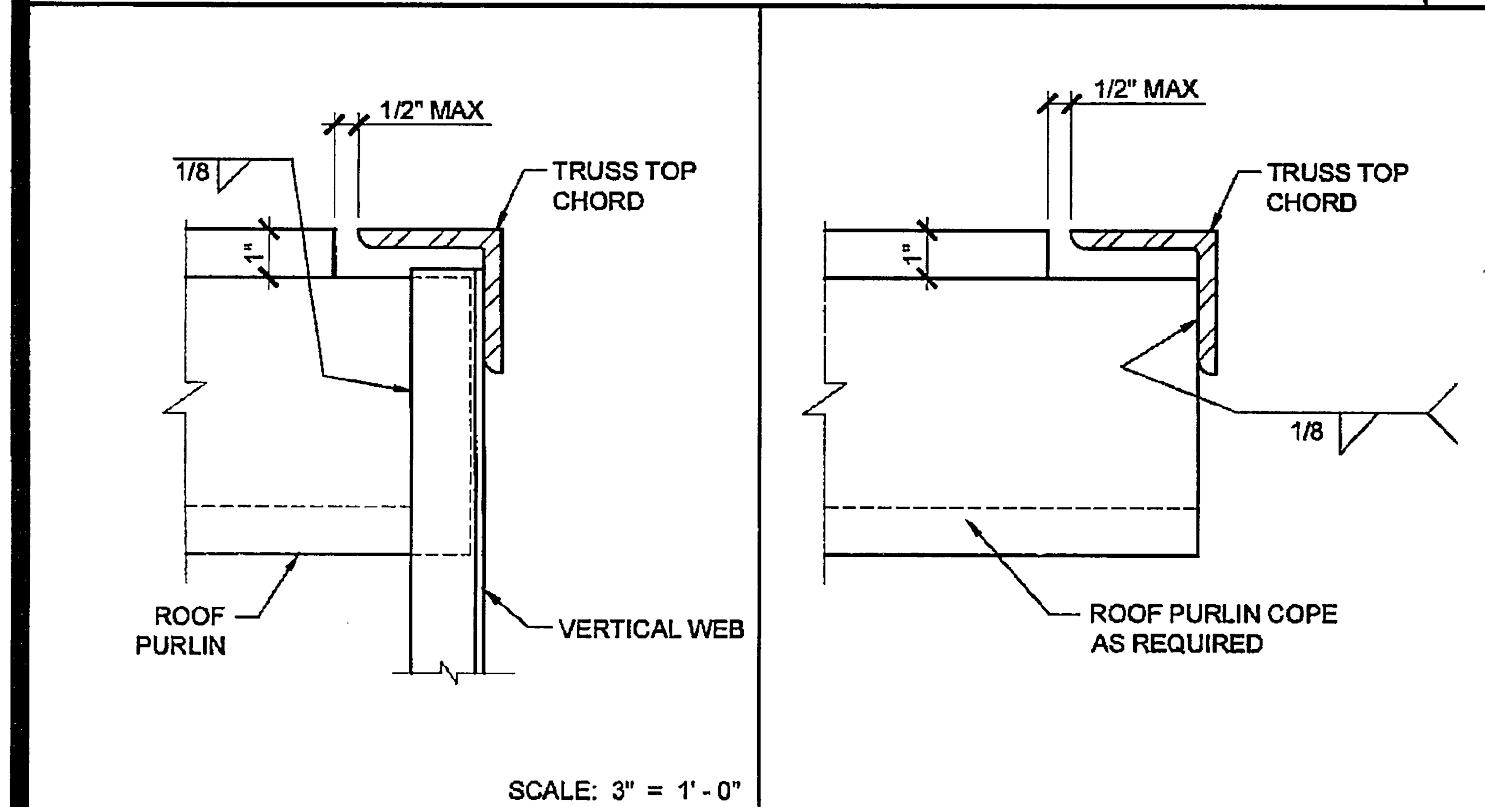
TYP. VERTICAL & DIAGONAL (U.N.O.) SCALE: 1 1/2" = 1'-0" 6



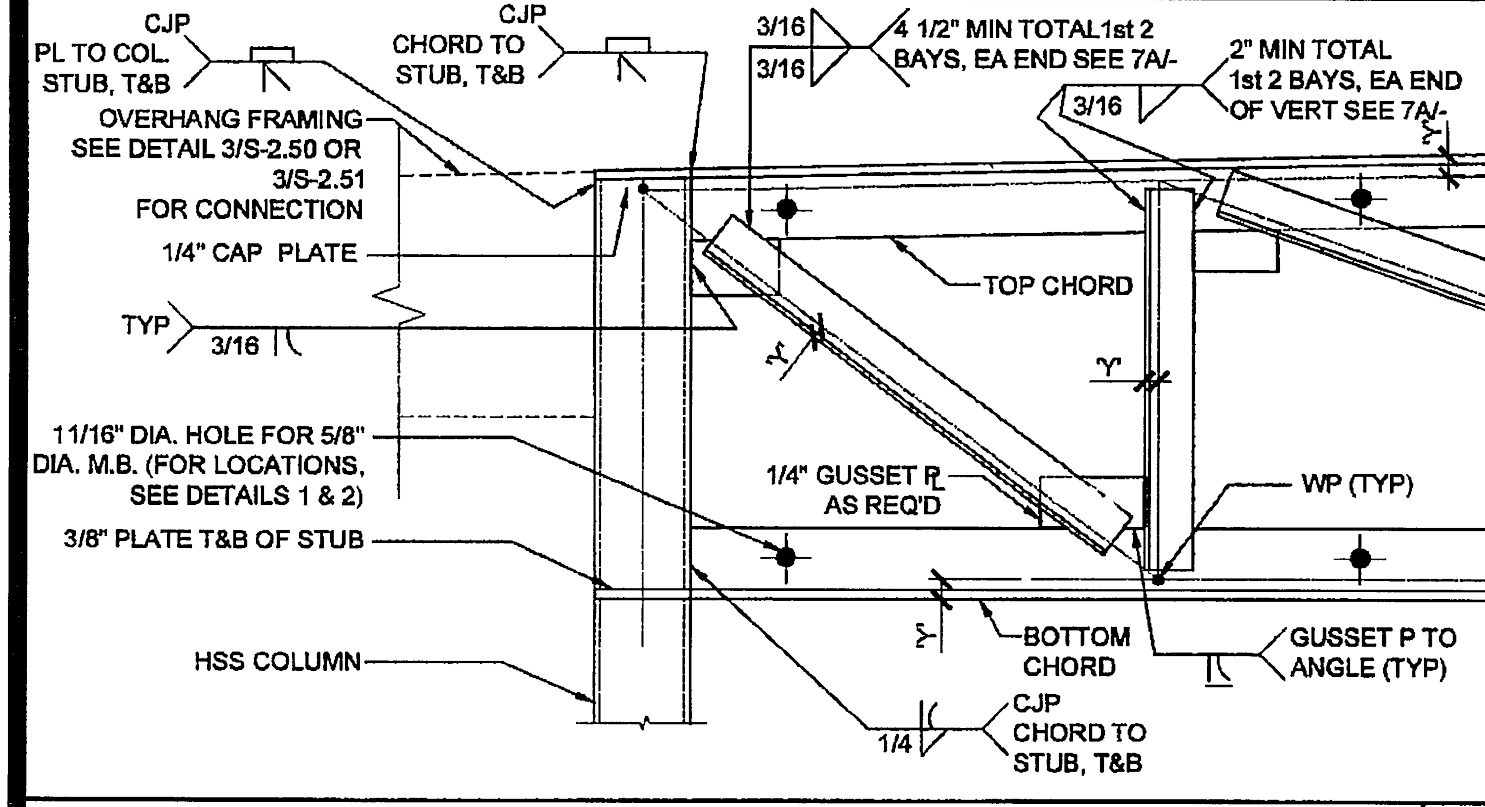
FILLET WELD TERMINATION 7A CONNECTION @ MODULE LINE SCALE: 1 1/2" = 1'-0" 7



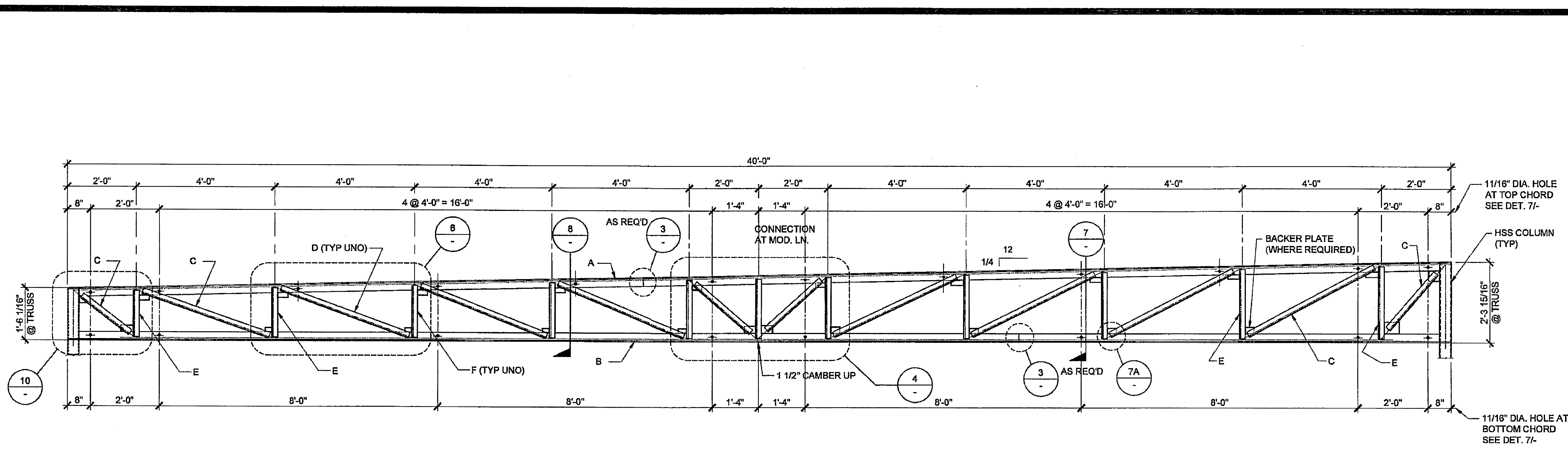
BRACE @ TRUSS & MATING LINE SCALE: 1 1/2" = 1'-0" 8



PURLIN TO VERT. ANGLE CONN. 9B PURLIN TO TRUSS CONN. SCALE: 3\"/>



TRUSS TO COLUMN / OH FRAME CONN. SCALE: 1 1/2" = 1'-0" 10

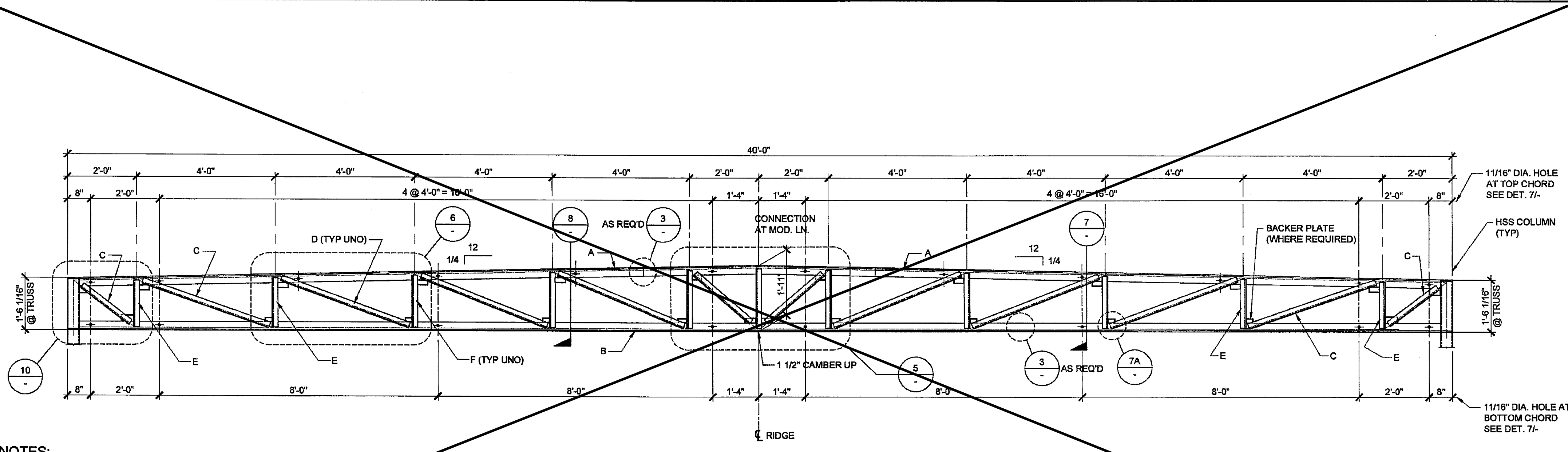


NOTES:
 1. ALL STEEL GRADES TO BE A-36 WITH 36 K.S.I. MIN. YIELD
 2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70
 3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS
 4. BOLTS AND NUTS GRADES TO BE A307
 REF: ROOF FRAMING PLAN

TRUSS MARK	SIZE	QTY
A TOP CHORD	4" x 3" x 1/4" (LLV)	1 1/4
B BOTTOM CHORD	4" x 3" x 1/4" (LLV)	1 1/4
C END DIAGONALS (2 EACH END)	2" x 2" x 3/16"	8/16
D TYPICAL DIAGONALS	1 1/2" x 1 1/2" x 3/16"	7/16
E END VERTICAL (2 EACH END)	1 1/2" x 1 1/2" x 3/16"	7/16
F TYPICAL VERTICALS	1 1/2" x 1 1/2" x 3/16"	7/16

NOTE: "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT

MONO SLOPE TRUSS SCALE: 1/2" = 1'-0" 1

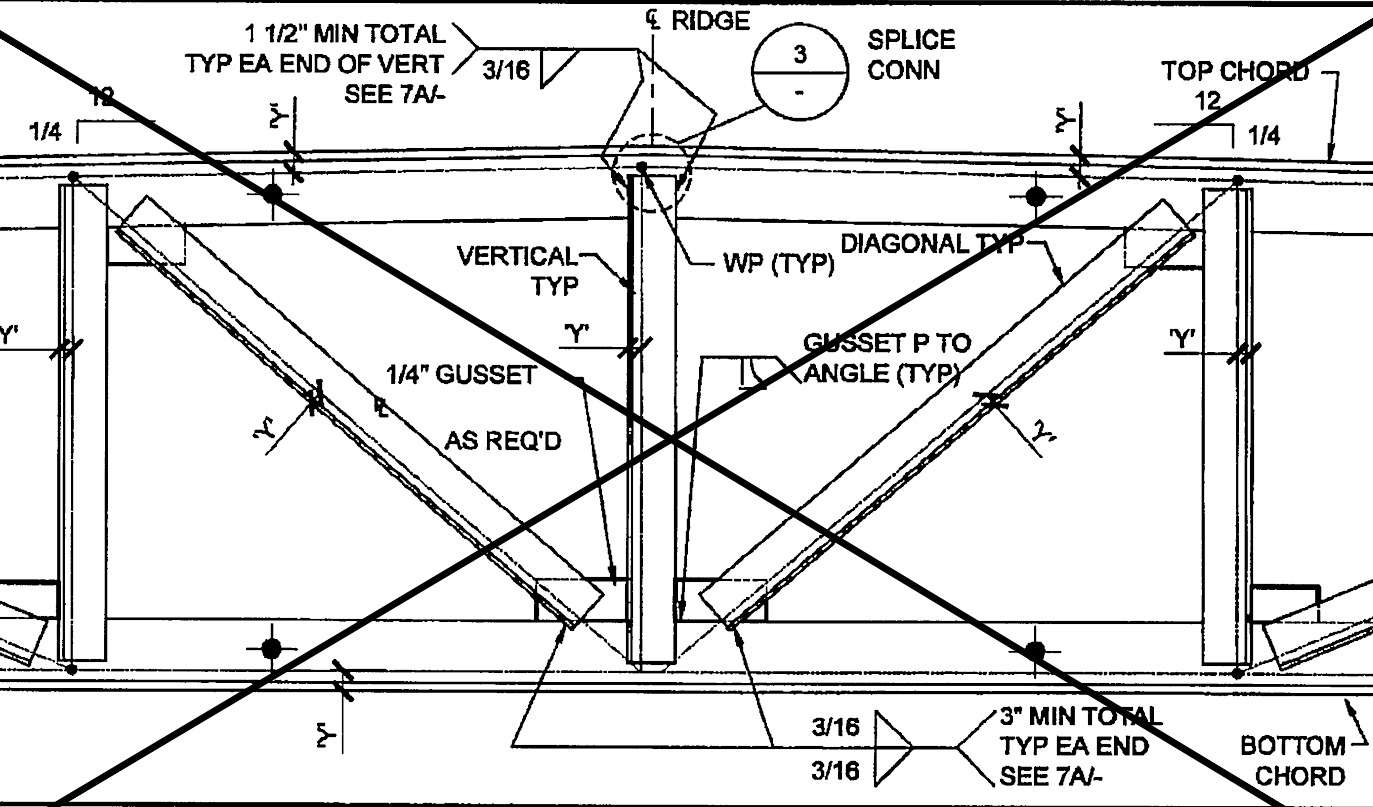


NOTES:
 1. ALL STEEL GRADES TO BE A-36 WITH 36 K.S.I. MIN. YIELD
 2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70
 3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS
 4. BOLTS AND NUTS GRADES TO BE A307
 REF: ROOF FRAMING PLAN

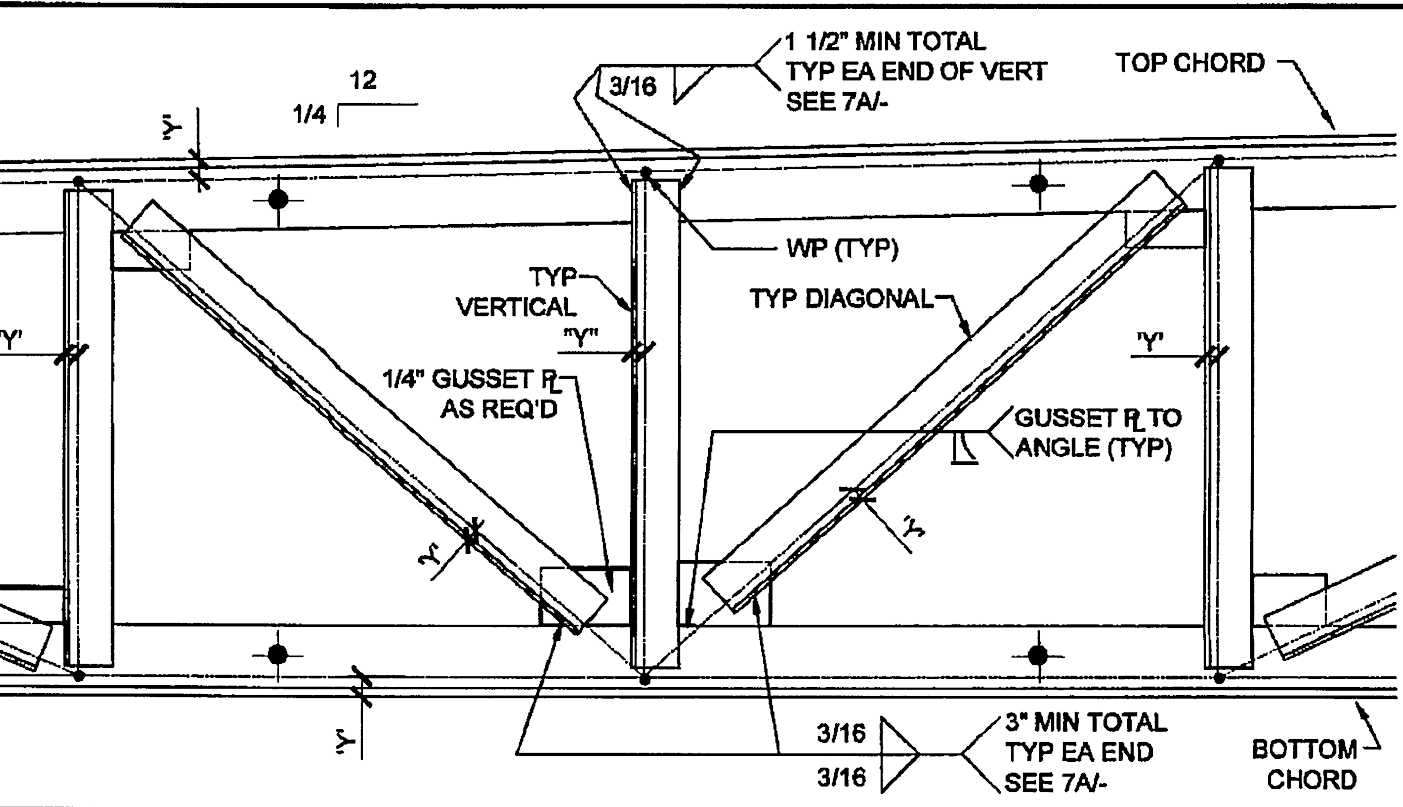
TRUSS MARK	SIZE	QTY
A TOP CHORD	4" x 3" x 1/4" (LLV)	1 1/4
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C END DIAGONALS (2 EACH END)	2" x 2" x 3/16"	8/16
D TYPICAL DIAGONALS	1 1/2" x 1 1/2" x 3/16"	7/16
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F TYPICAL VERTICALS	1 1/2" x 1 1/2" x 3/16"	7/16

NOTE: "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT

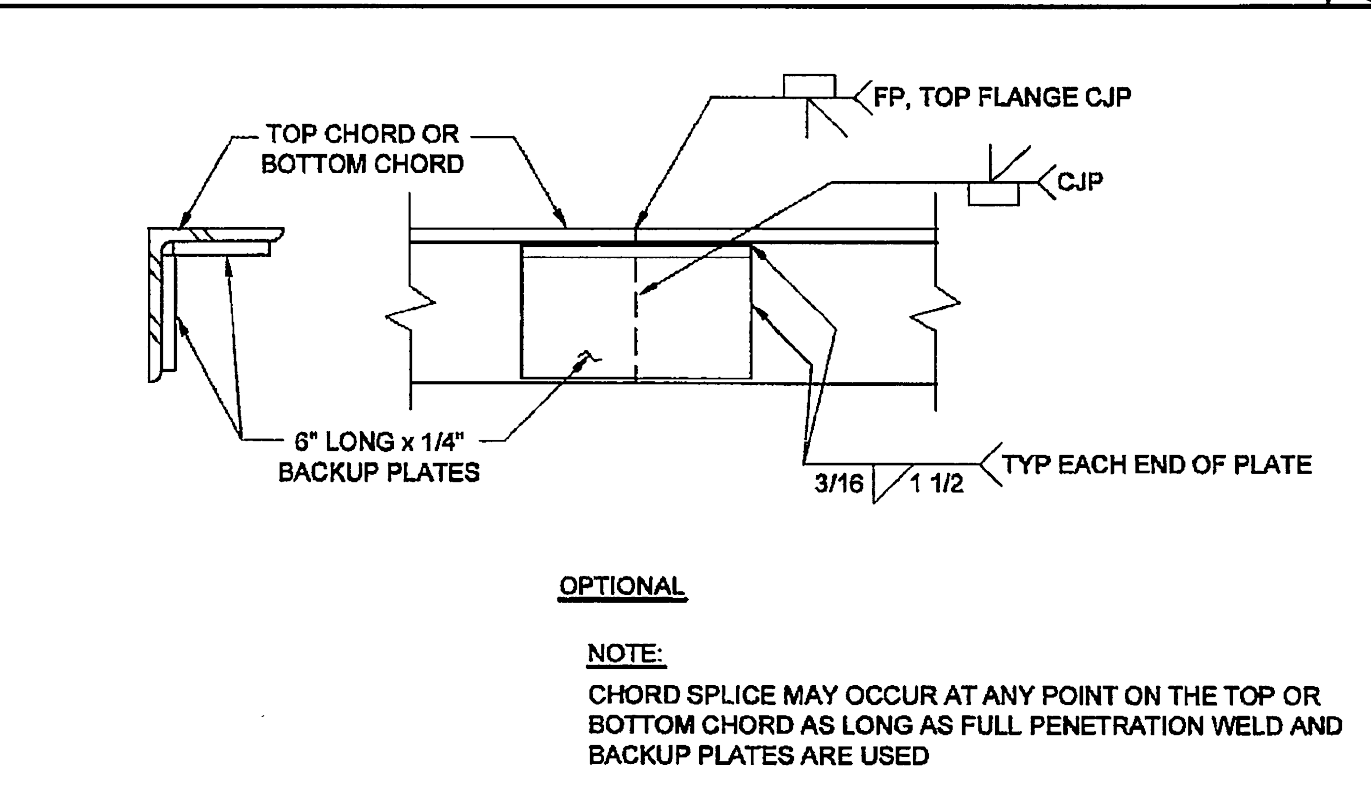
DUAL SLOPE TRUSS SCALE: 1/2" = 1'-0" 2



VERT. & DIAG. AT MID-POINT SCALE: 1 1/2" = 1'-0" 5



VERT. & DIAG. AT MID-POINT SCALE: 1 1/2" = 1'-0" 4



TRUSS CHORD SPLICE SCALE: 3" = 1'-0" 3

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SILVER CREEK INDUSTRIES, INC.
 "BUILDING FOR THE NEXT GENERATION"
 SILVER CREEK
 2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
 PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
 PALOMAR COLLEGE EDUCATION CTR.
 PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
 ROOF FRAMING DETAILS TRUSS

ARCHITECT OF RECORD
 SUBMISSION DATE
 PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STAMP
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 PC 04-114027
 DATE SEP 08 2015

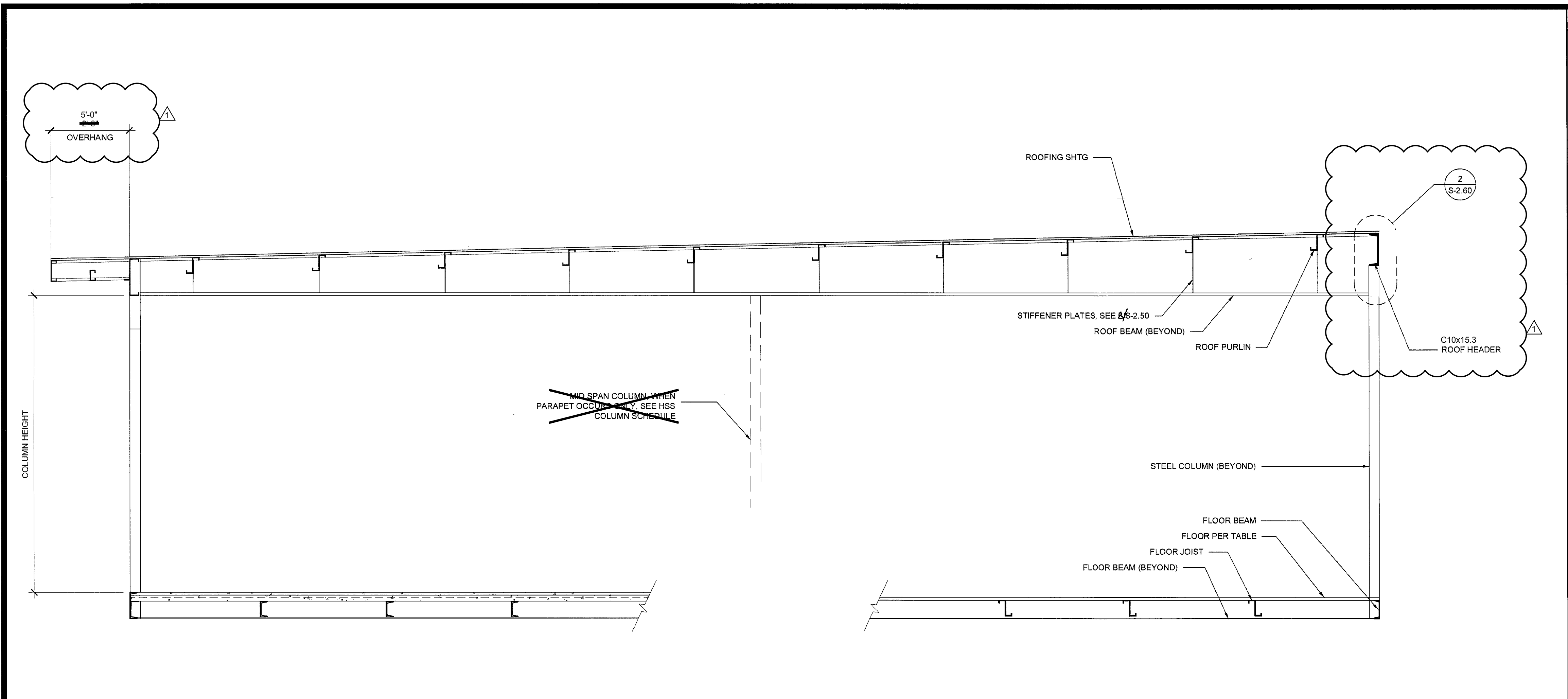
REVISIONS

SILVER CREEK INDUSTRIES
 24" x 40" PC

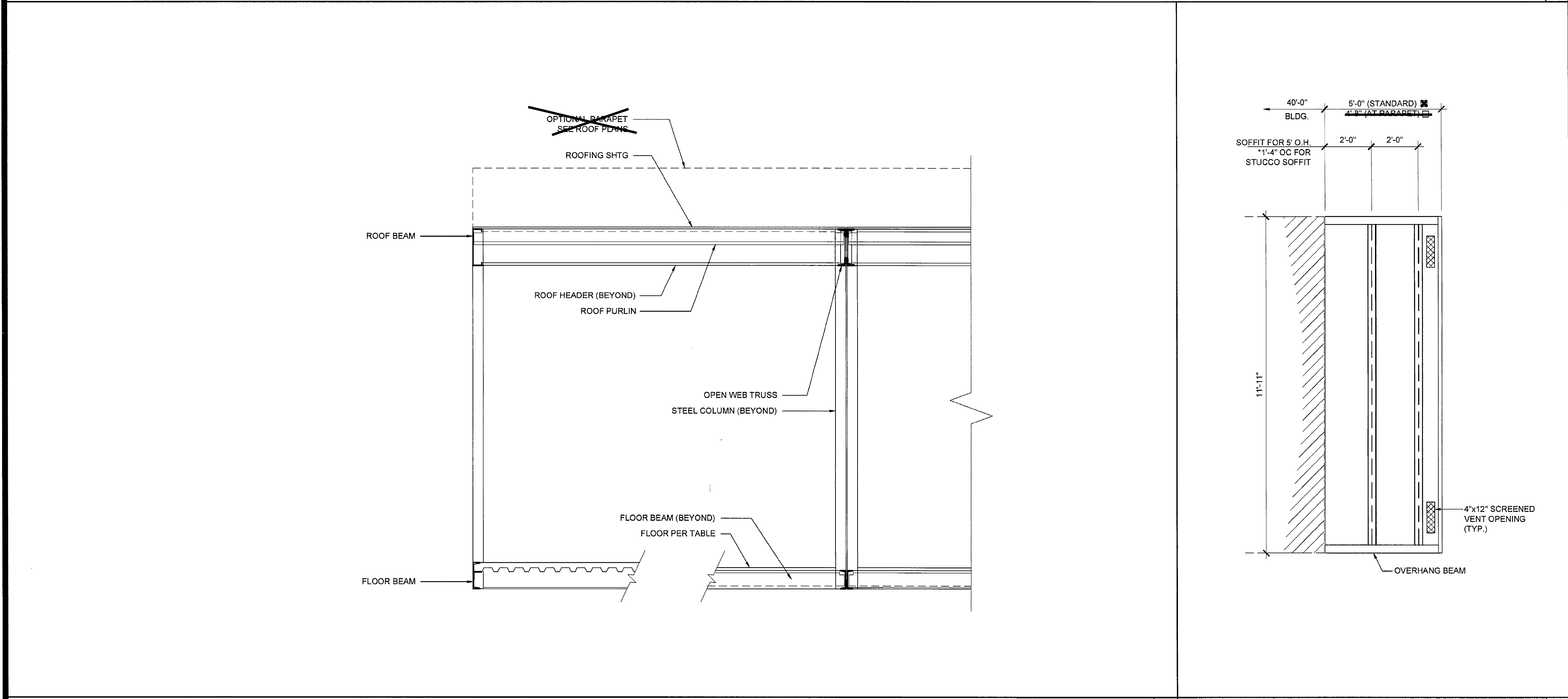
PROJECT NO:
 DRAWN BY:
 SCALE: AS NOTED
 DATE: 09-10-14
 P.C. SHEET NUMBER

NOTE:
 CHORD SPLICE MAY OCCUR AT ANY POINT ON THE TOP OR BOTTOM CHORD AS LONG AS FULL PENETRATION WELD AND BACKUP PLATES ARE USED

S-2.90
 -- HIGH SEISMIC --



BUILDING SECTION SCALE: 1/2" = 1'-0" 1



BUILDING SECTION SCALE: 1/2" = 1'-0" 3 ENCL. SOFFIT PLAN-OPT. SCALE: 3/8" = 1'-0" 2

NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

FLOOR CONSTRUCTION

- ☒ WOOD FLOOR
- ☐ CONCRETE FLOOR

HSS COLUMN SCHEDULE

COL HT	METAL ROOF	B.U.R. OR UP TO 18' PARAPET	UP TO 48' PARAPET
<input type="checkbox"/> 9'-0"	<input type="checkbox"/> 5 x 5 x 1/4	<input type="checkbox"/> 6 x 6 x 1/4	<input checked="" type="checkbox"/> 8 x 8 x 1/4
<input checked="" type="checkbox"/> UP TO 10.5'	<input checked="" type="checkbox"/> 6 x 6 x 1/4	<input checked="" type="checkbox"/> 8 x 8 x 1/4	<input checked="" type="checkbox"/> 9 x 9 x 1/4

FLOOR BEAM

- ☐ ~ C7x9.8
- ☒ ~ C8x11.5

NOTE: CONCRETE FLOOR REQUIRES C10x15.3 FLOOR BEAMS.

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SILVER CREEK INDUSTRIES, INC.

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
BUILDING SECTIONS MONO SLOPE

STAVARES ASSOCIATES
REGISTERED ARCHITECT
No. S3380
EXPIRATION DATE 01-31-2015
04/01/2015

ARCHITECT OF RECORD
SUBMISSION DATE
No. C-33427
RECEIVED 01-31-2015

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04-114027
NO. PLS. 04-114027
DATE APR 14 2015

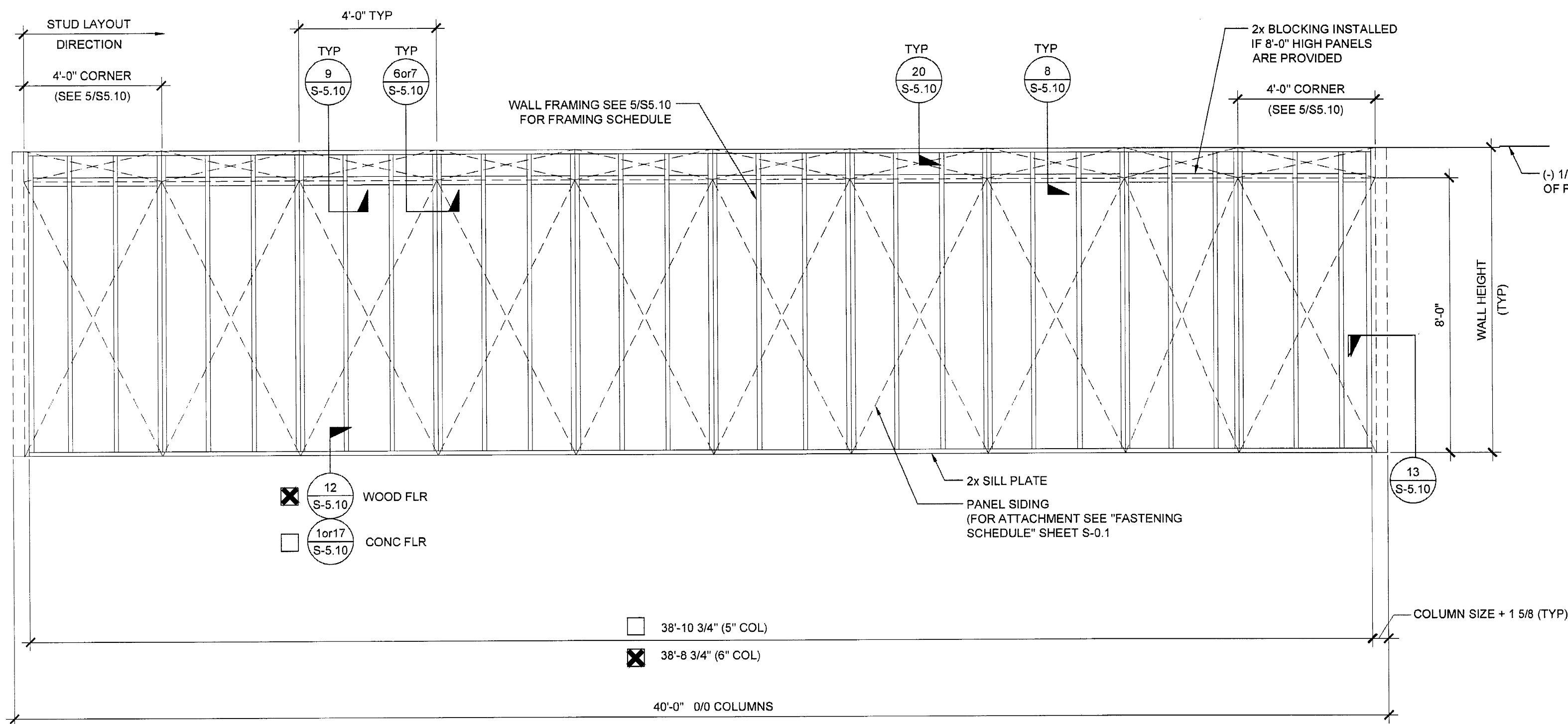
REVISIONS

NO.	DESCRIPTION	DATE
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2		
3		
4		
5		
6		
7		
8		
9		
10		

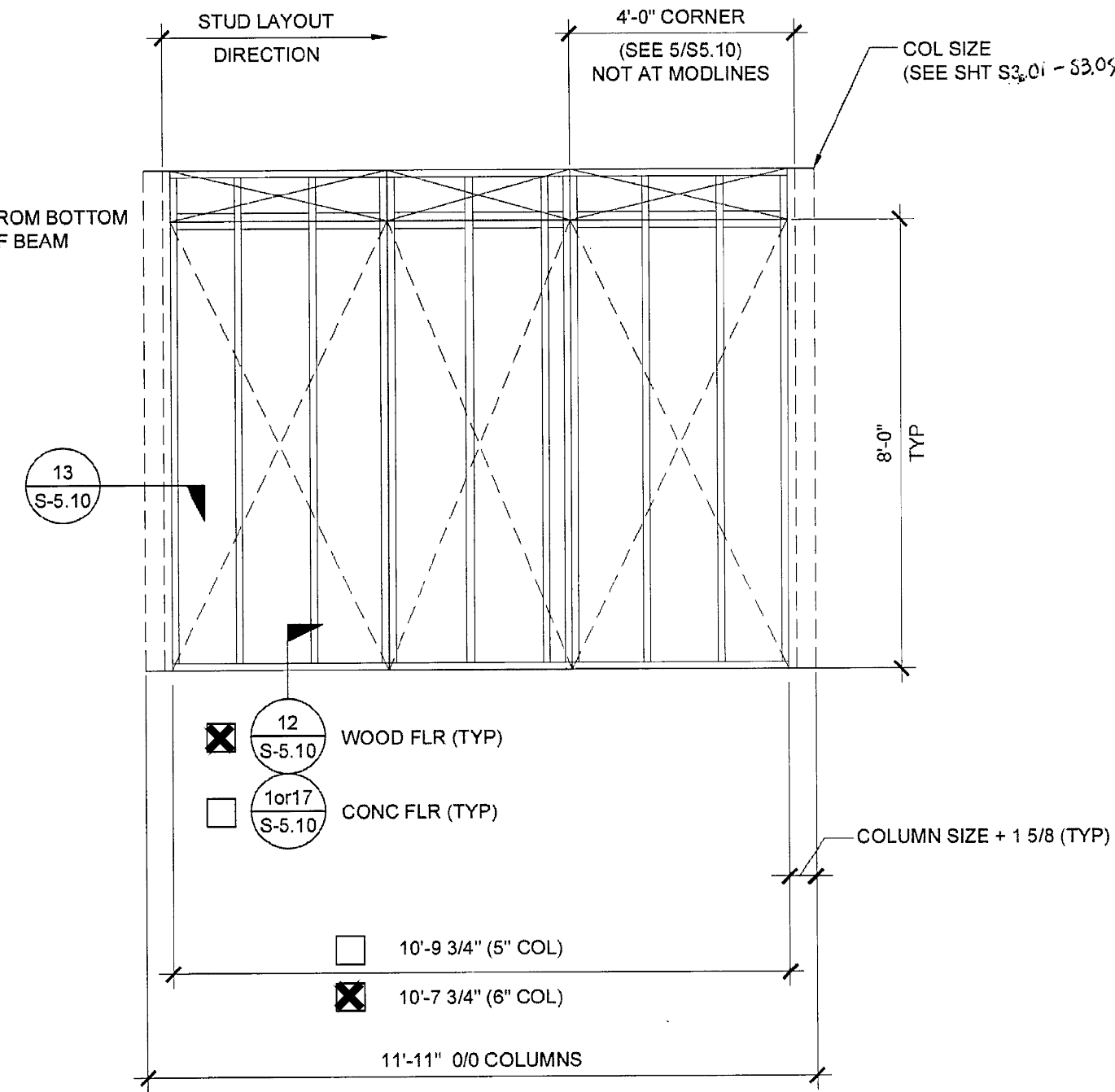
SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO.
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

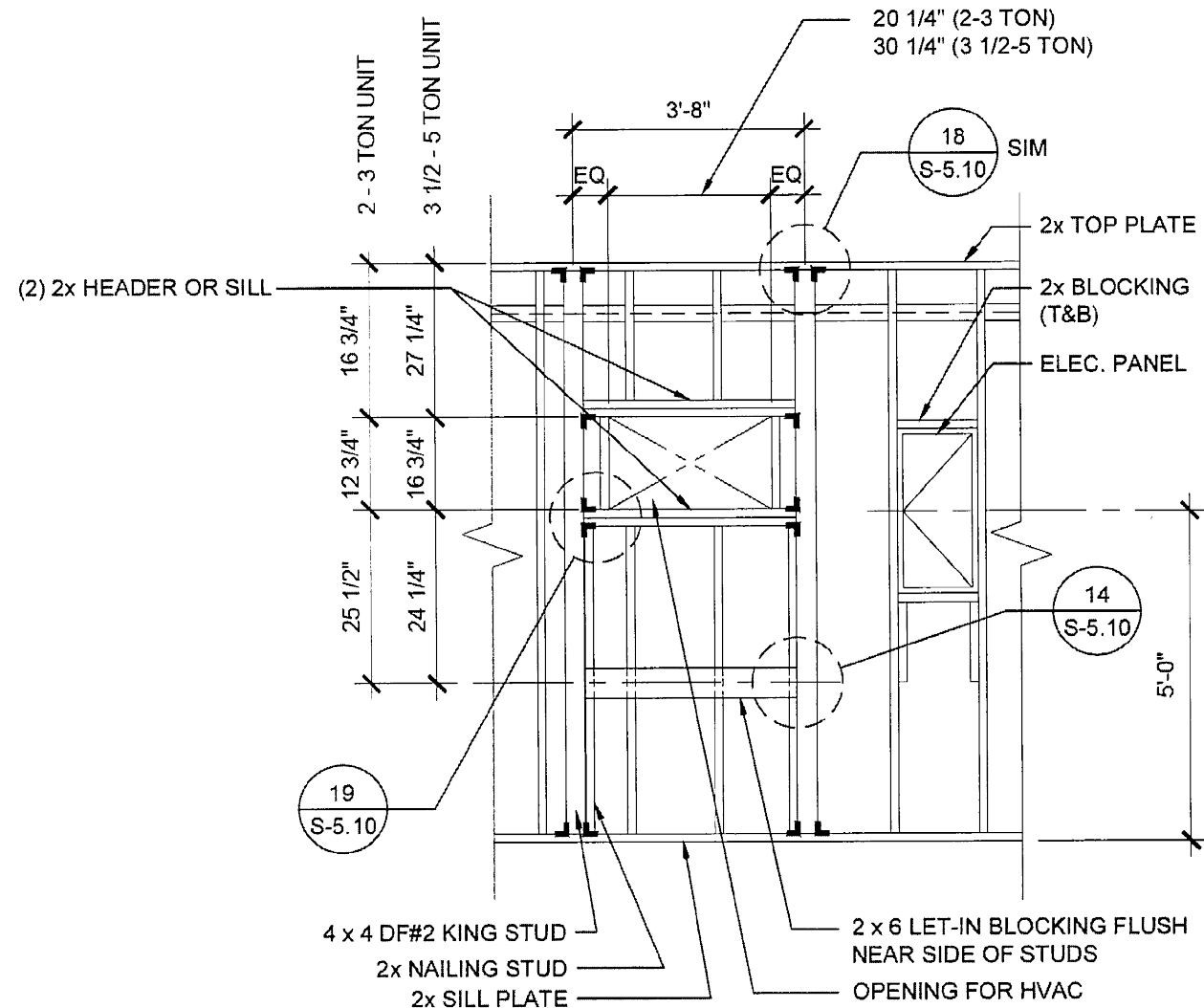
P.C. SHEET NUMBER
S-3.01
-- HIGH SEISMIC --



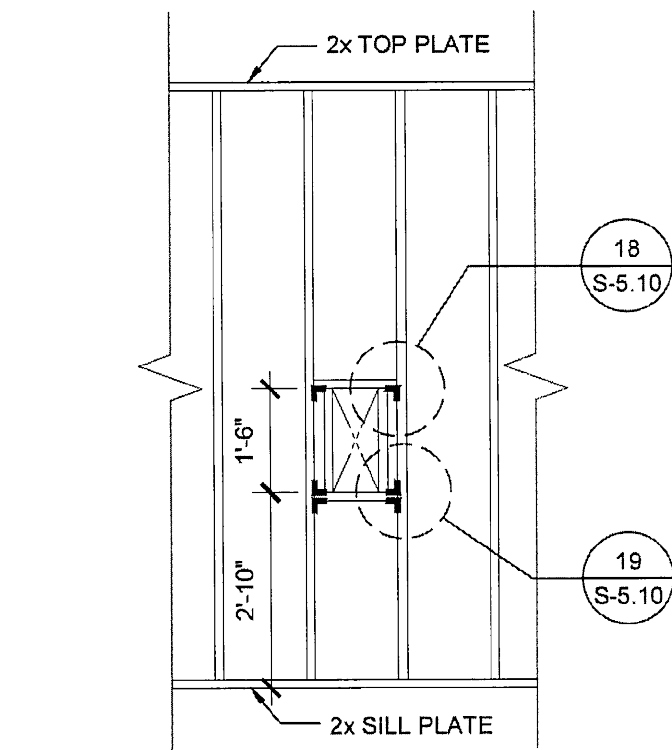
TYPICAL SIDE WALL



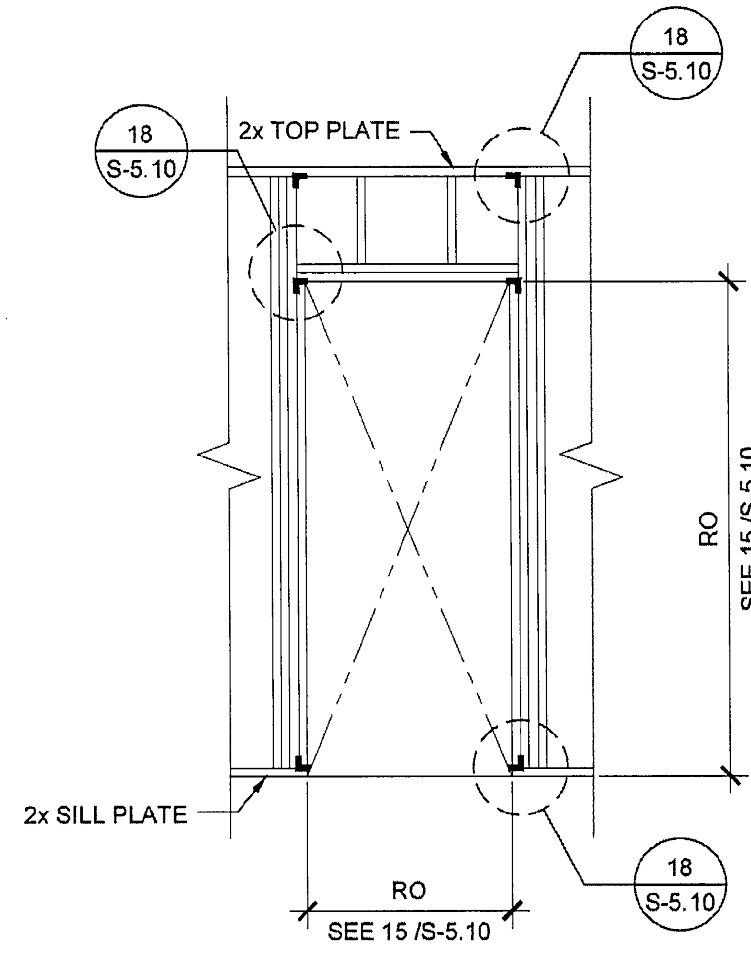
TYPICAL END WALL



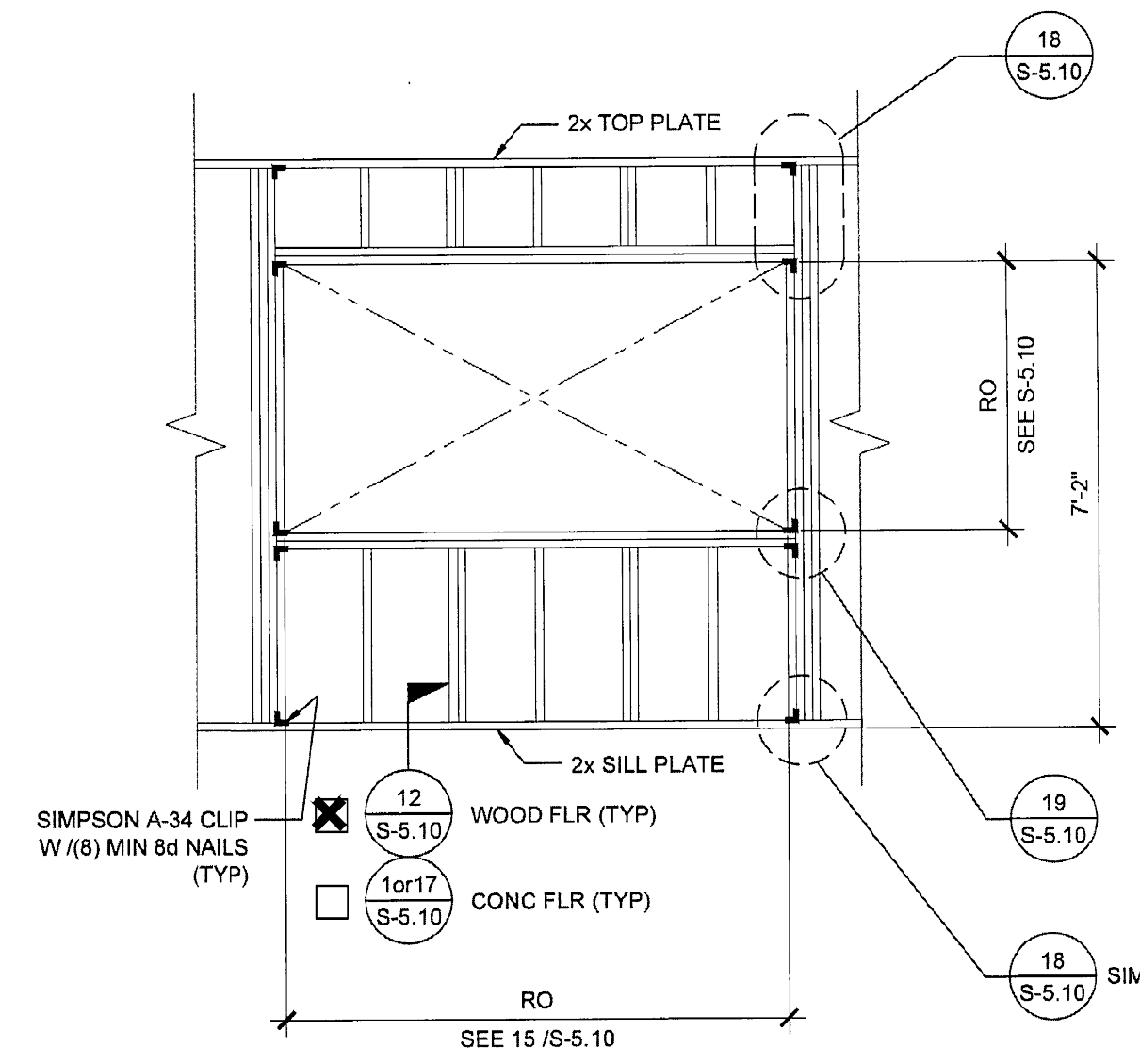
TYPICAL HVAC



FIRE EXTINGUISHER
CABINET BLOCKOUT



TYPICAL DOOR



TYPICAL WINDOW

NOTES

WALL HEIGHT SCHEDULE

COLUMN HEIGHT	9'-0"	9'-6"	10'-0"	10'-6"
CONCRETE FLOOR	8'-11 7/8"	9'-5 7/8"	9'-11 7/8"	10'-5 7/8"
WOOD FLOOR	8'-10 3/4"	9'-4 3/4"	9'-10 3/4"	10'-4 3/4"

NOTE:
IF PARAPET IS USED & HIGHER THAN 18",
END WALLS MUST BE 2x6 @ 24" O.C.

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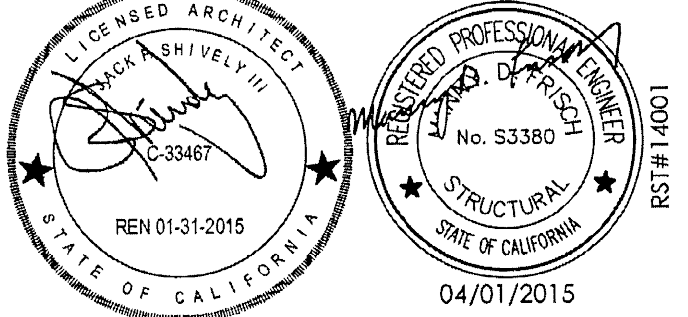
SILVER CREEK INDUSTRIES, INC.



2830 BARRETT AVE., PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

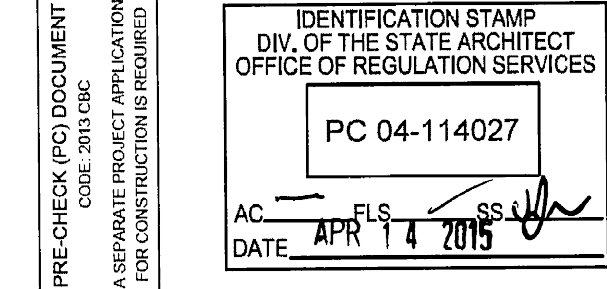
SHEET TITLE:
WALL FRAMING
ELEVATIONS
WOOD STUDS



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

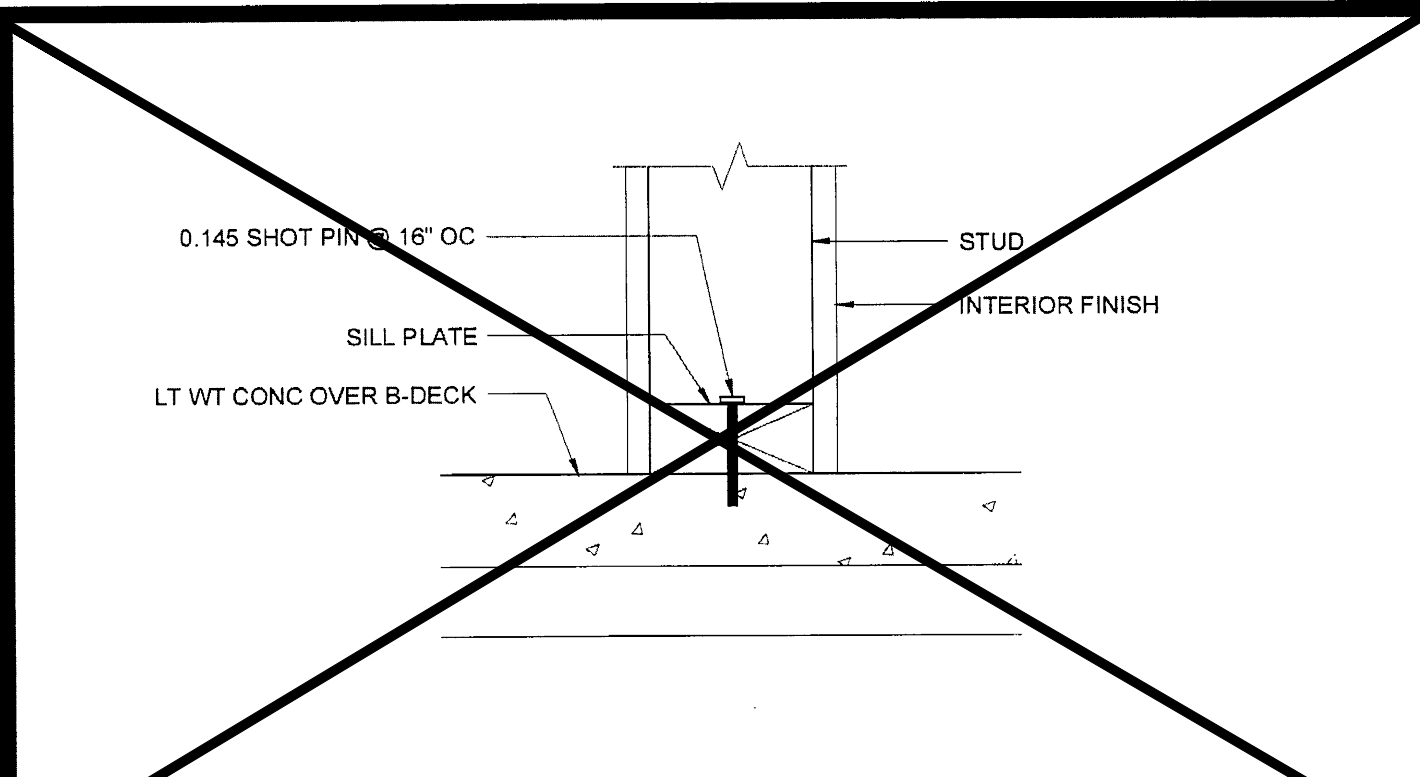
SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14

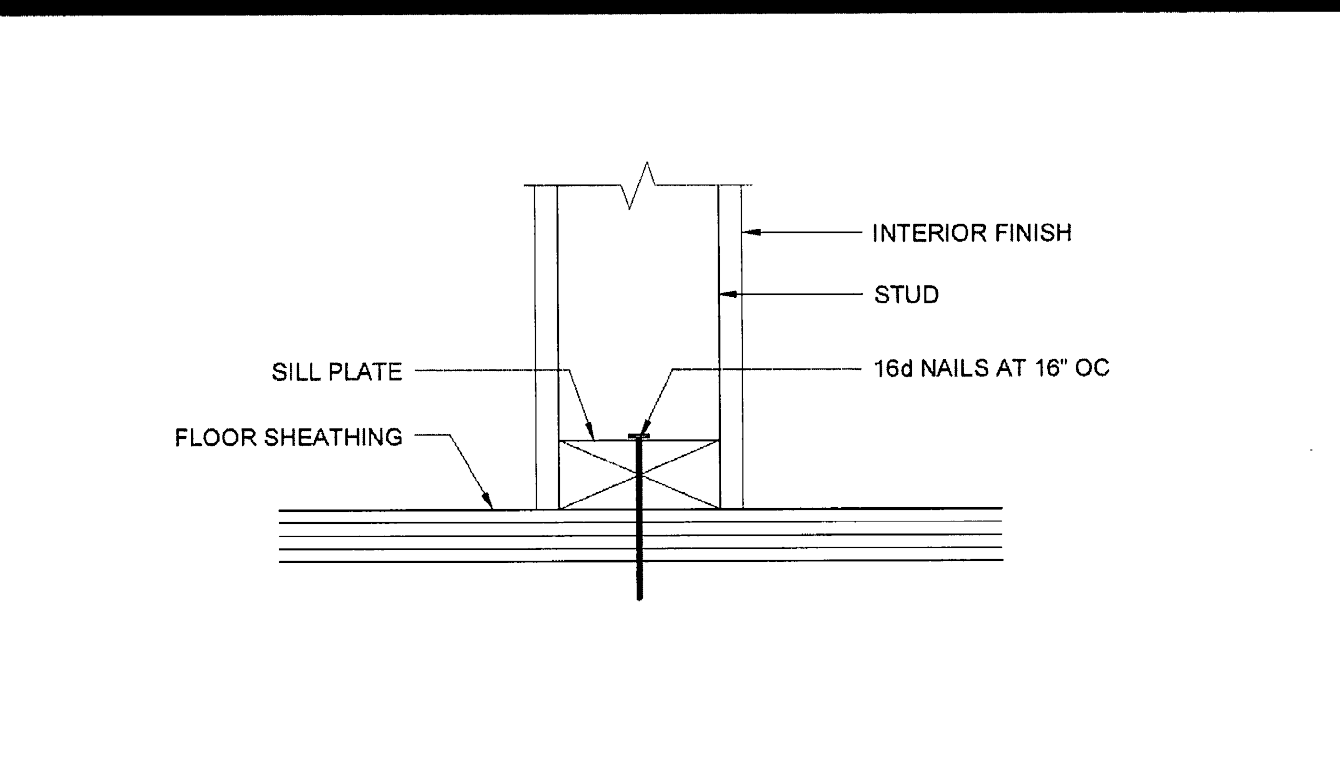
P.C. SHEET NUMBER

S-5.00

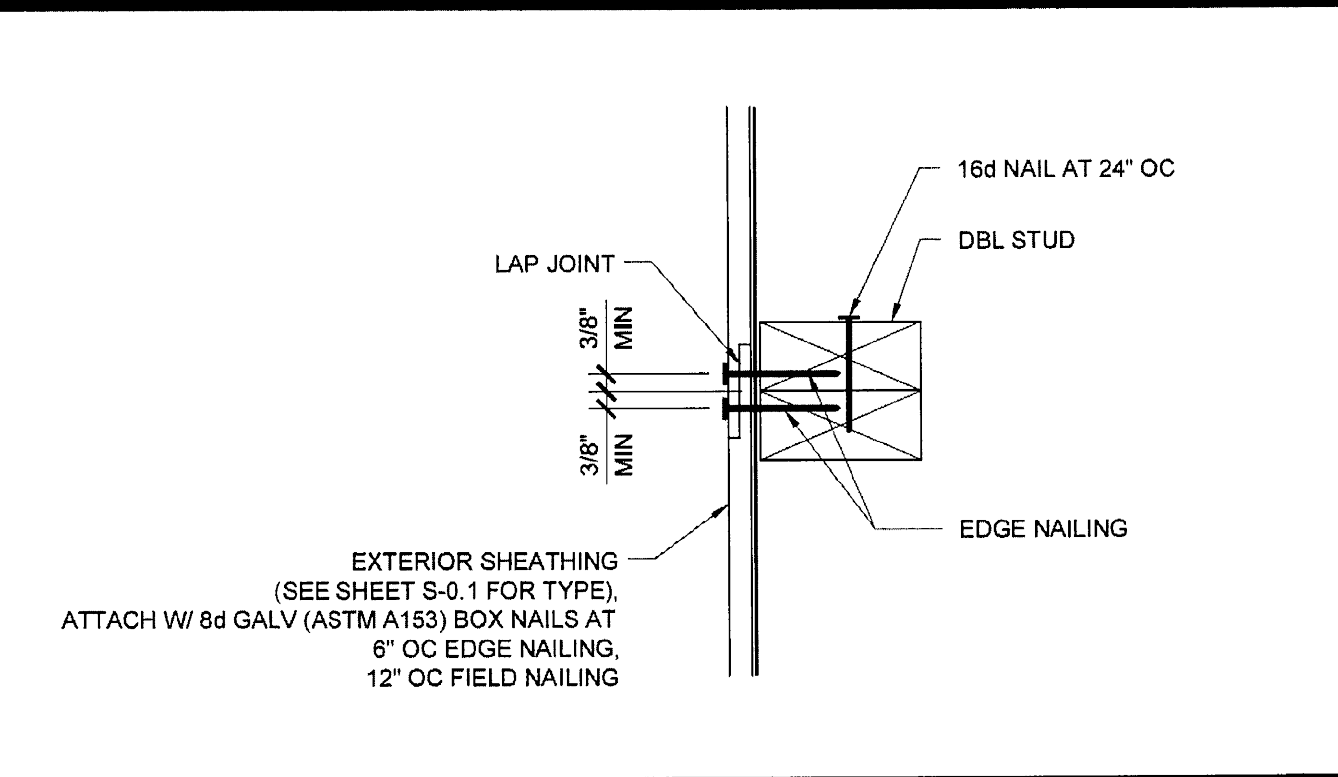
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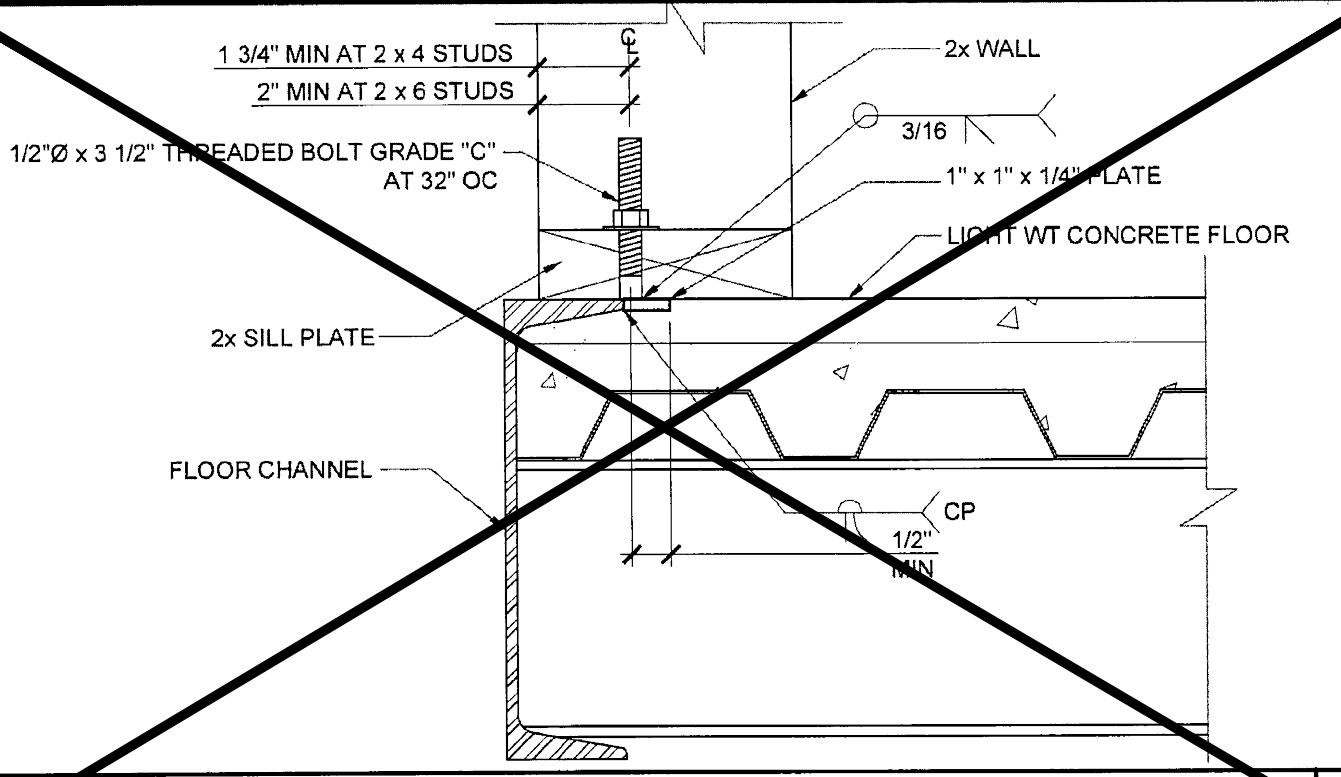
PARTITION CONNECTION AT CONC FLOOR SCALE: 3/8"=1'-0"



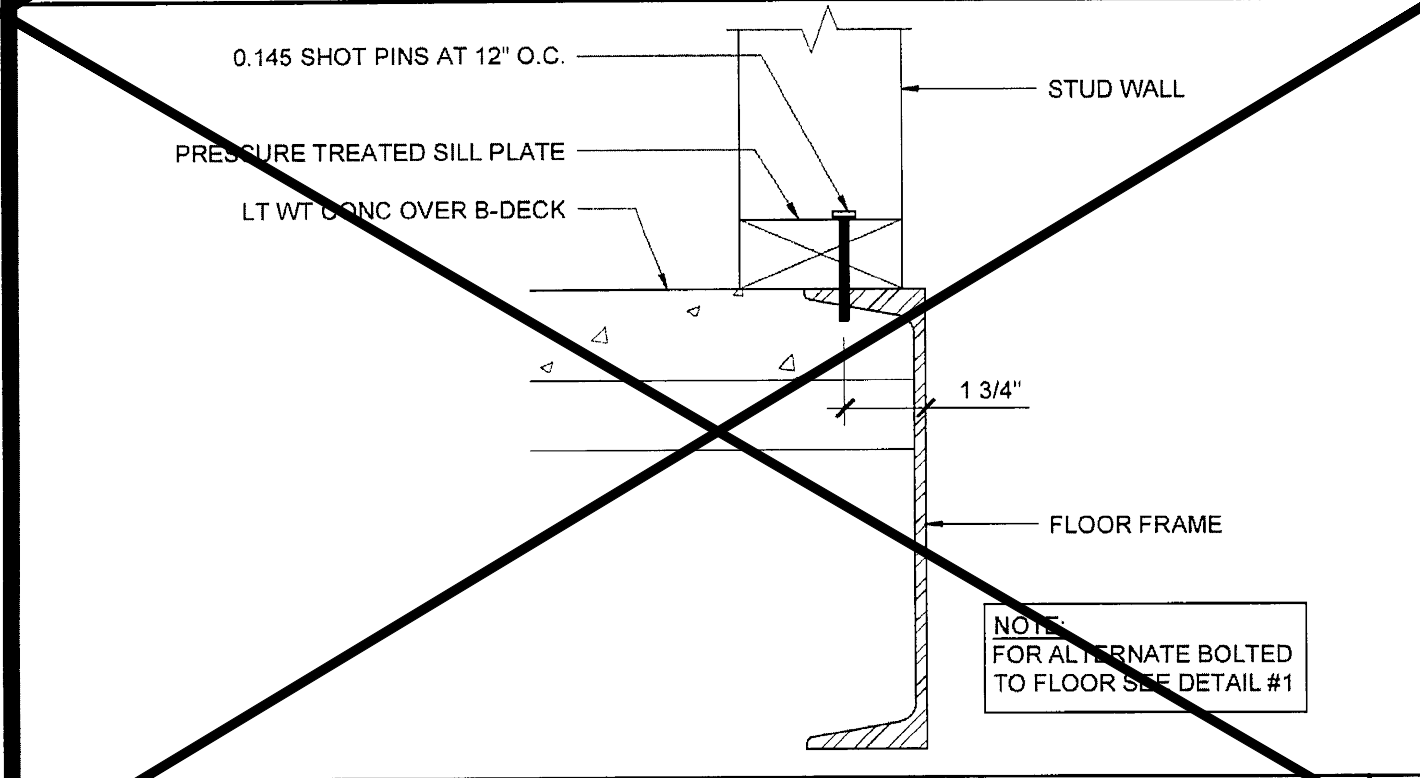
PARTITION CONNECTION AT WOOD FLOOR SCALE: 3/8"=1'-0"



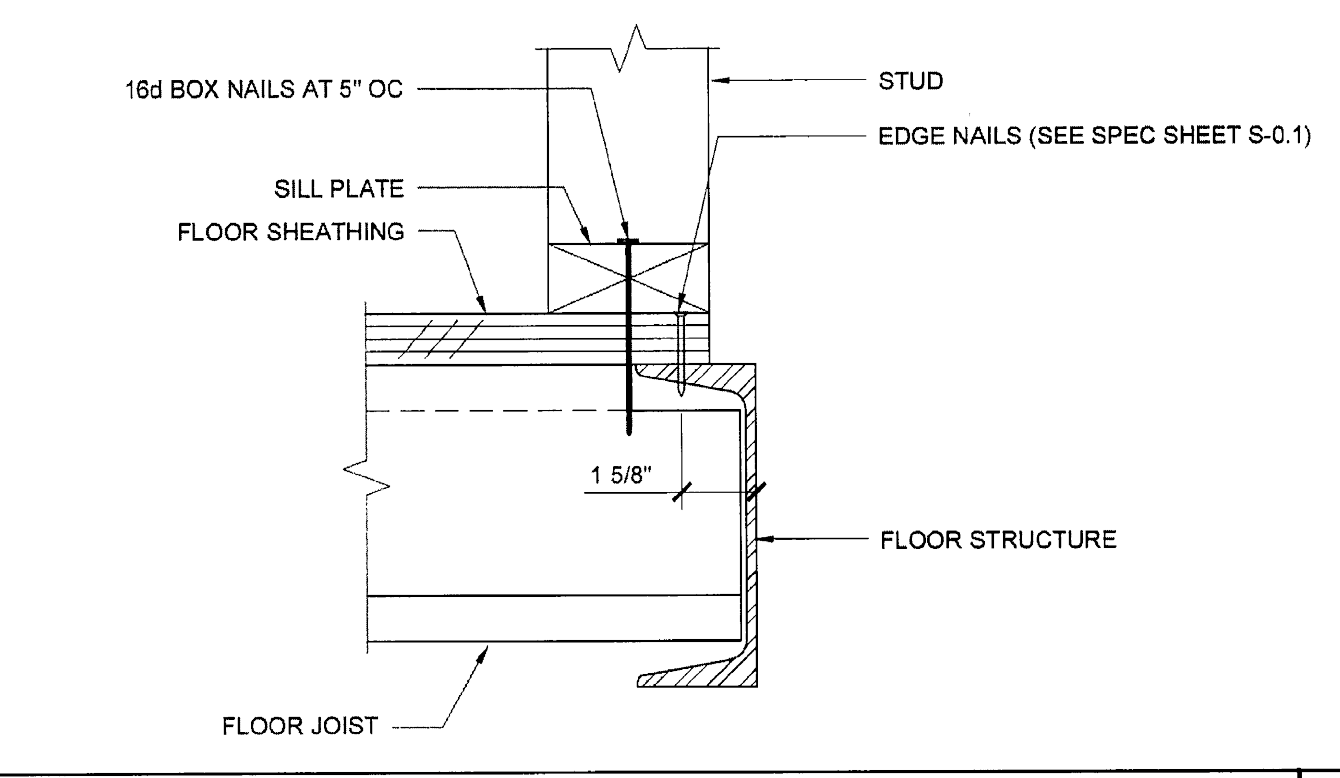
VERTICAL SHEATHING LAP JOINT SCALE: 3/8"=1'-0"



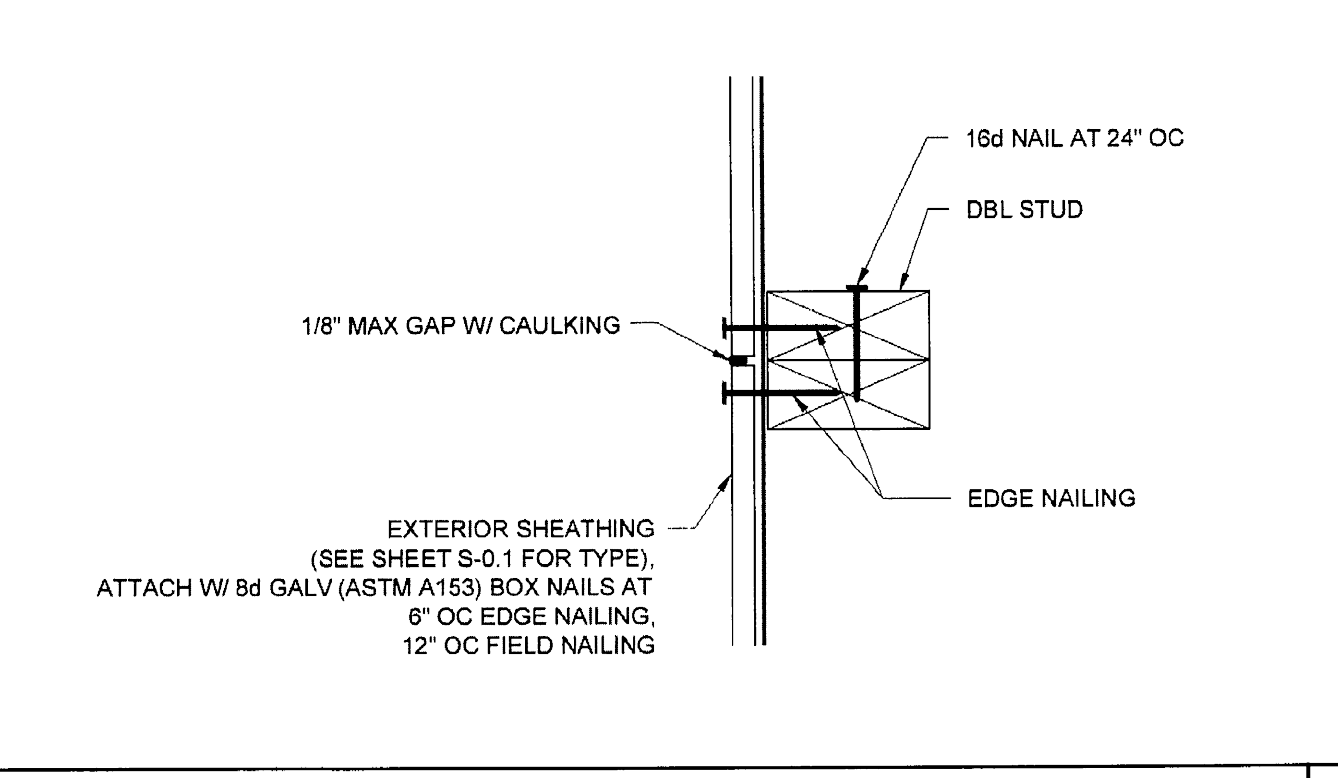
OPTIONAL BOLTED WALL TO FLOOR SCALE: NTS



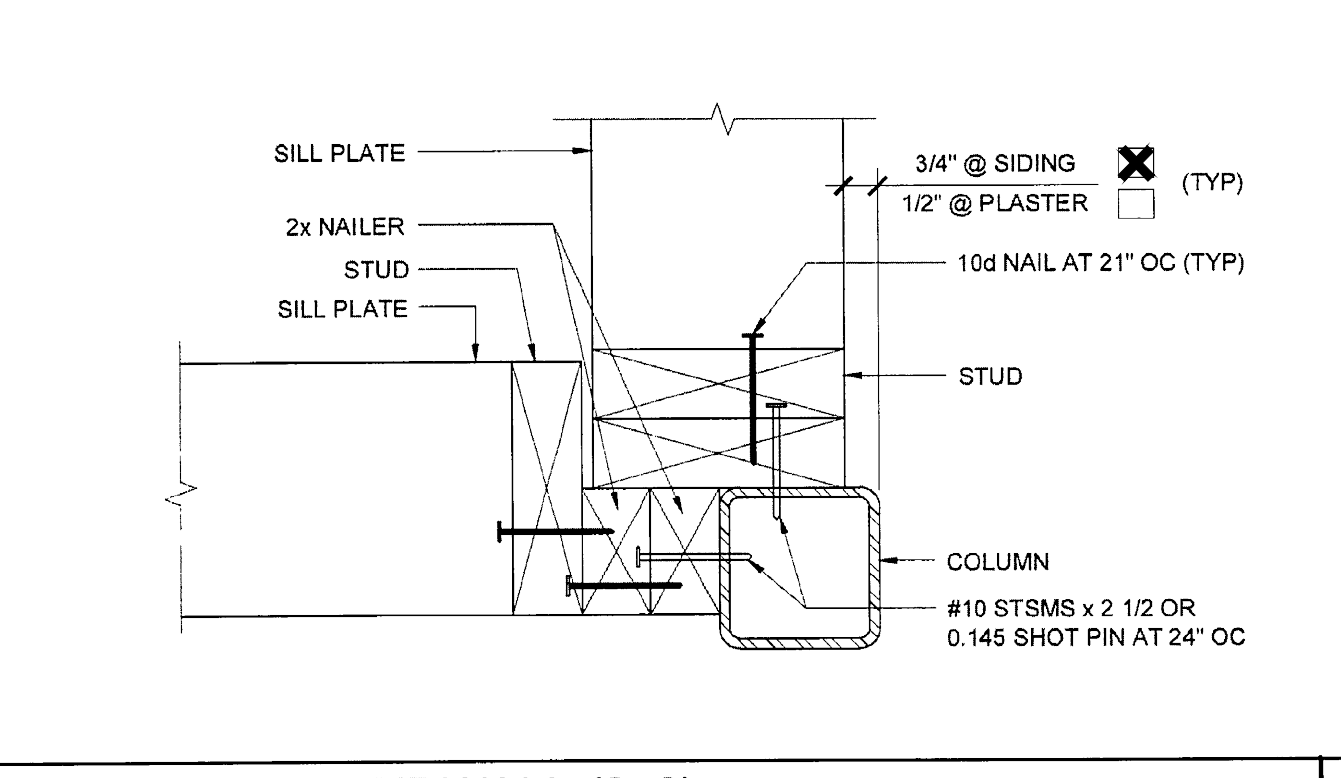
WALL SILL AT CONCRETE FLOOR SCALE: 3/8"=1'-0"



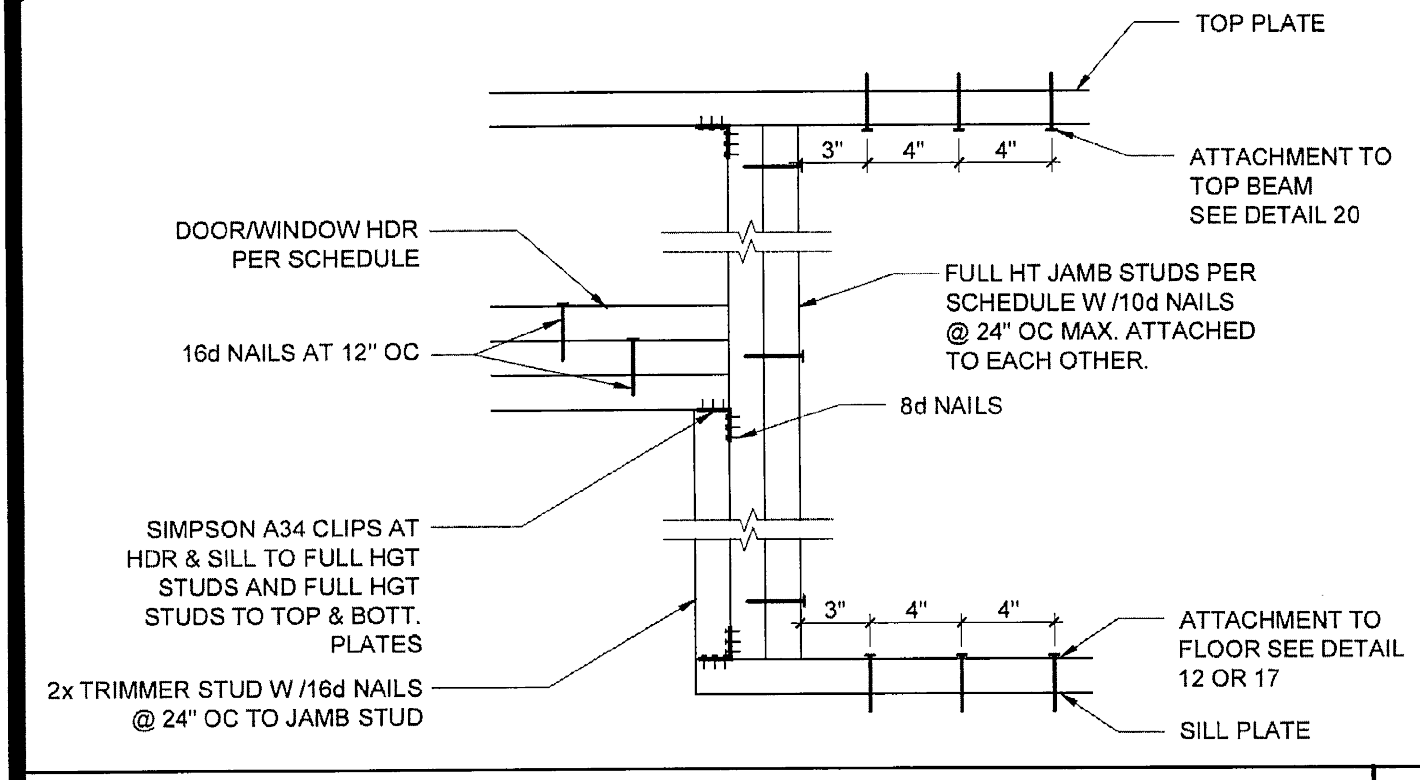
WALL SILL AT WOOD FLOOR SCALE: 3/8"=1'-0"



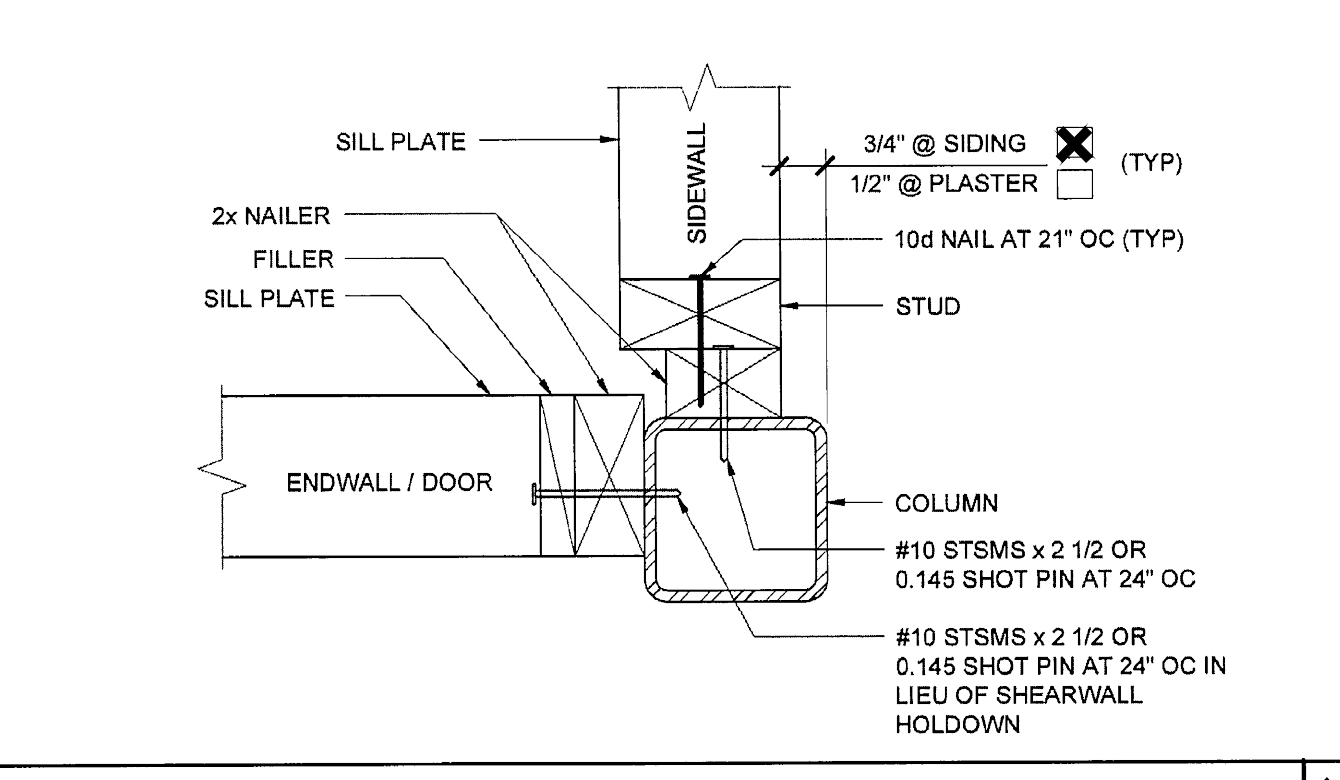
VERTICAL SHEATHING BUTT JOINT SCALE: 3/8"=1'-0"



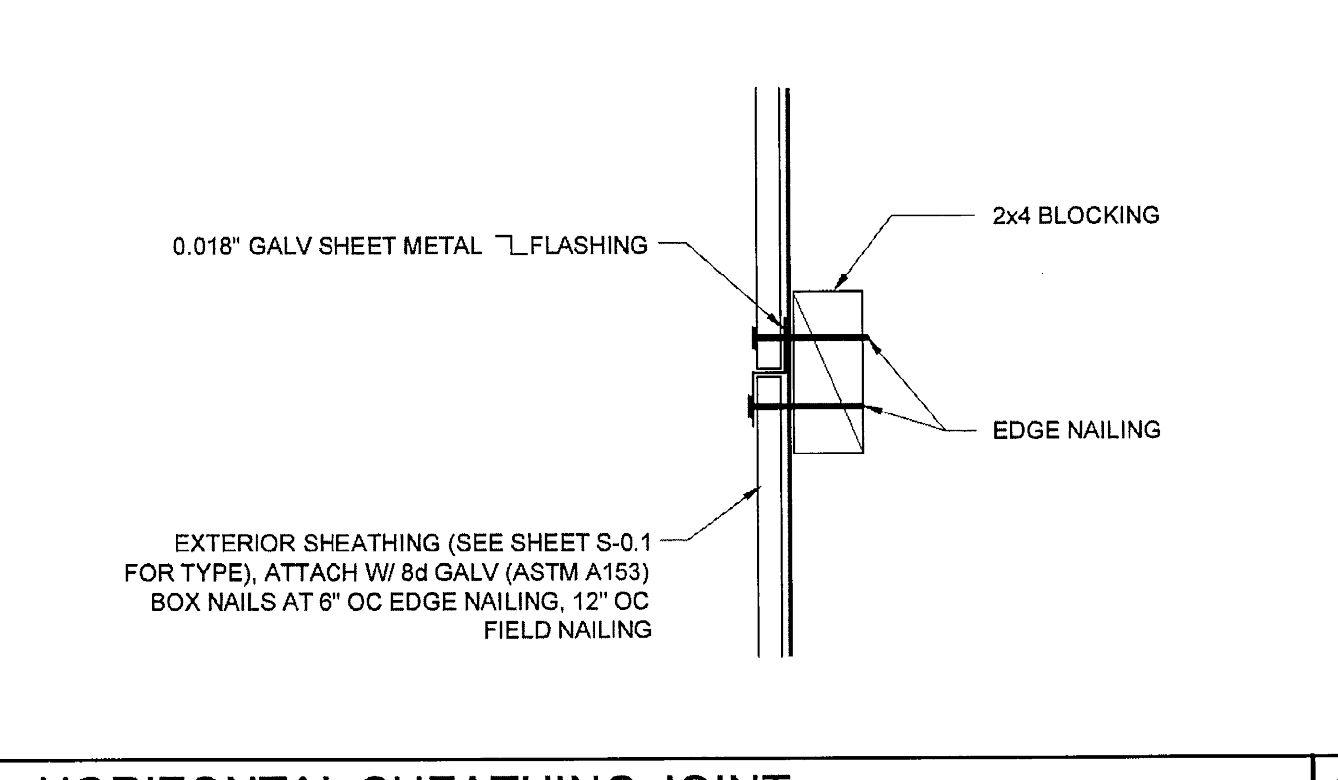
COLUMN AT ENDWALL (2x6) SCALE: 3/8"=1'-0"



DOOR/WINDOW HEADER AND JAMB SCALE: 1 1/2"=1'-0"

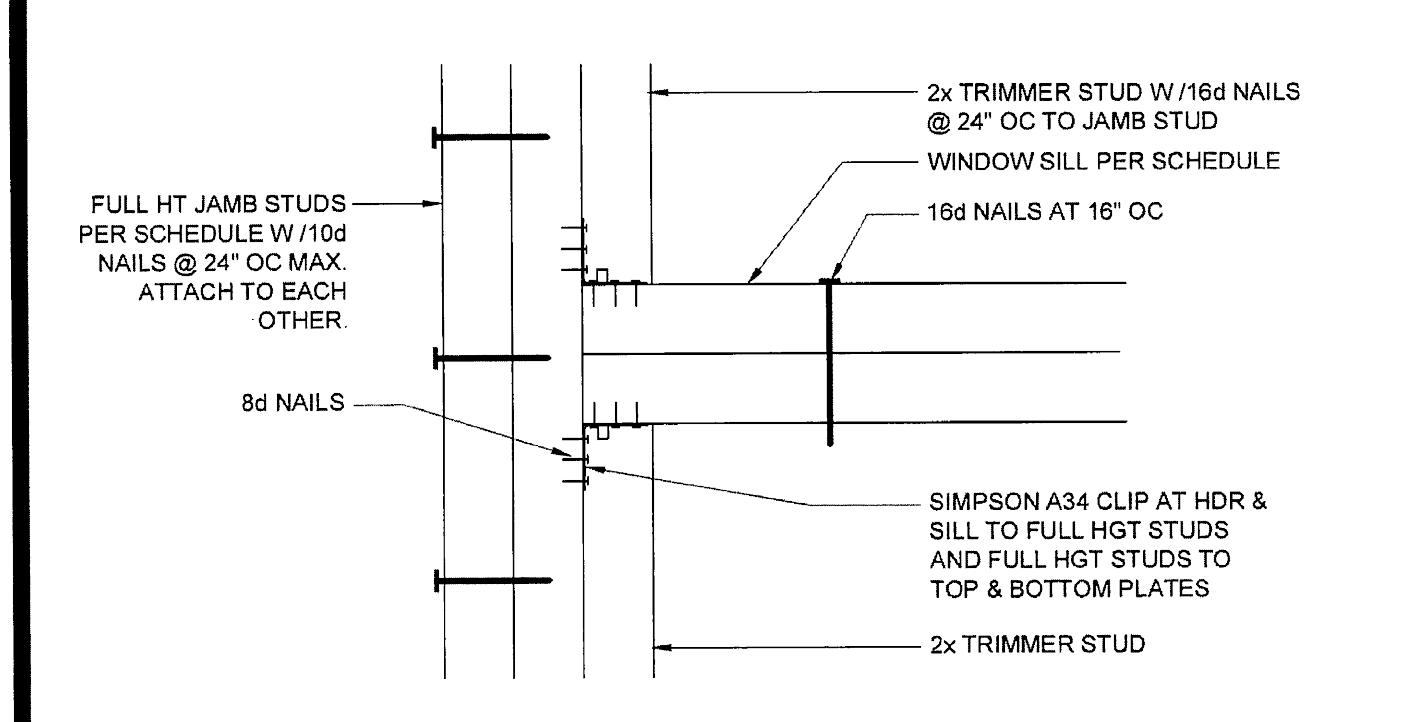


COLUMN AT ENDWALL SCALE: 3/8"=1'-0"

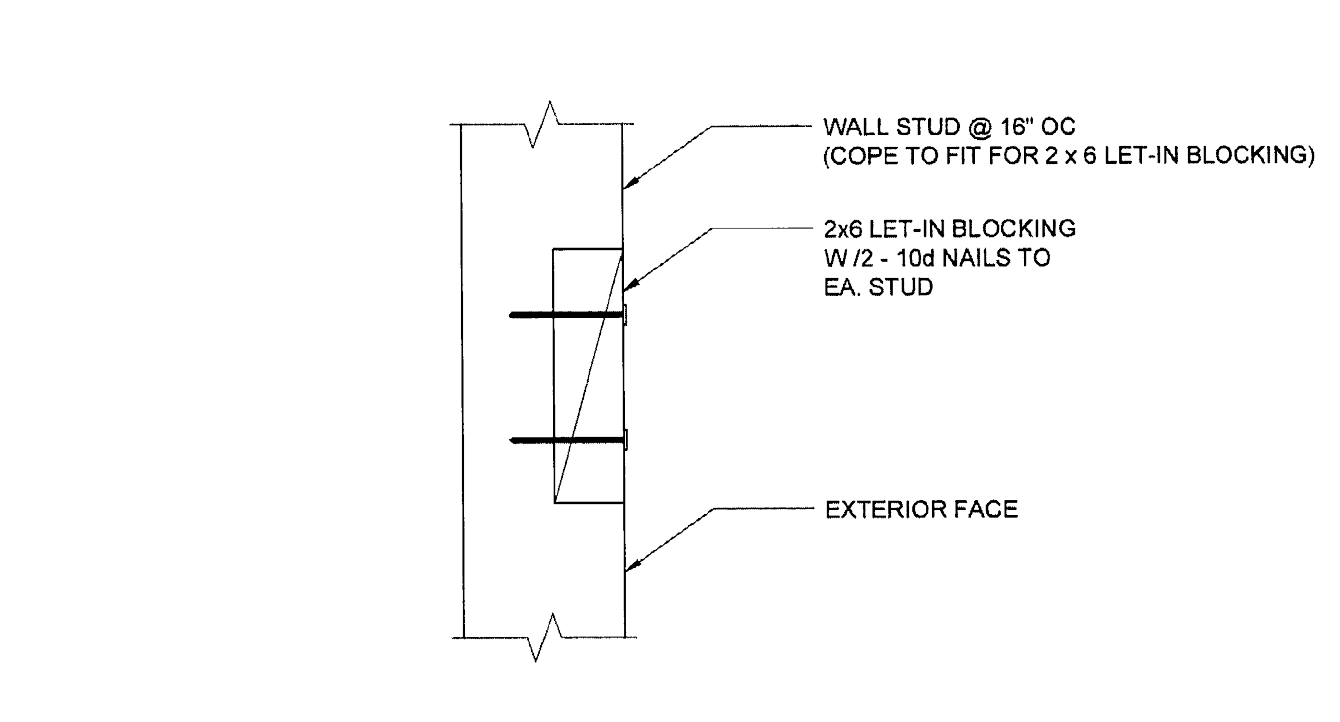


HORIZONTAL SHEATHING JOINT SCALE: 3/8"=1'-0"

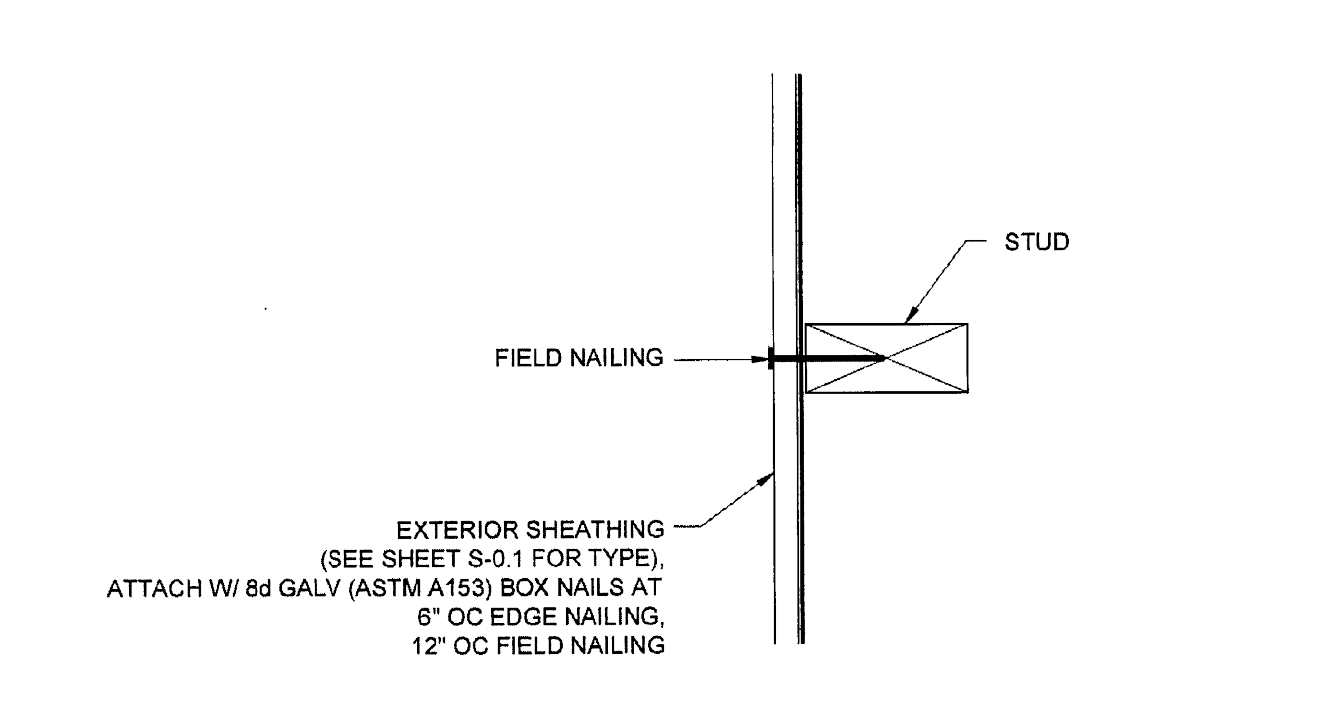
COLUMN HEIGHT	OPENING SIZE	EXT. FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER TYPE	NUMBER	SIZE	LUMBER TYPE	NUMBER	SIZE	LUMBER TYPE	NUMBER	SIZE	LUMBER TYPE
LESS THAN 9'-0"	3070	NO PLASTER	(1)	2X4	HF	#2	N/A		(2)	2X4	HF	#2		
		NO PLASTER (OPT)	(1)	2X4	DF	#2	N/A		(2)	2X4	DF	#2		
	4070	NO PLASTER	(1)	2X4	HF	#2	N/A		(2)	2X4	HF	#2		
		NO PLASTER (OPT)	(1)	2X4	DF	#2	N/A		(2)	2X4	DF	#2		
9'-0" TO 10'-0"	6040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(2)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2
	8040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(2)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2



WINDOW SILL AND JAMB SCALE: 3/8"=1'-0"

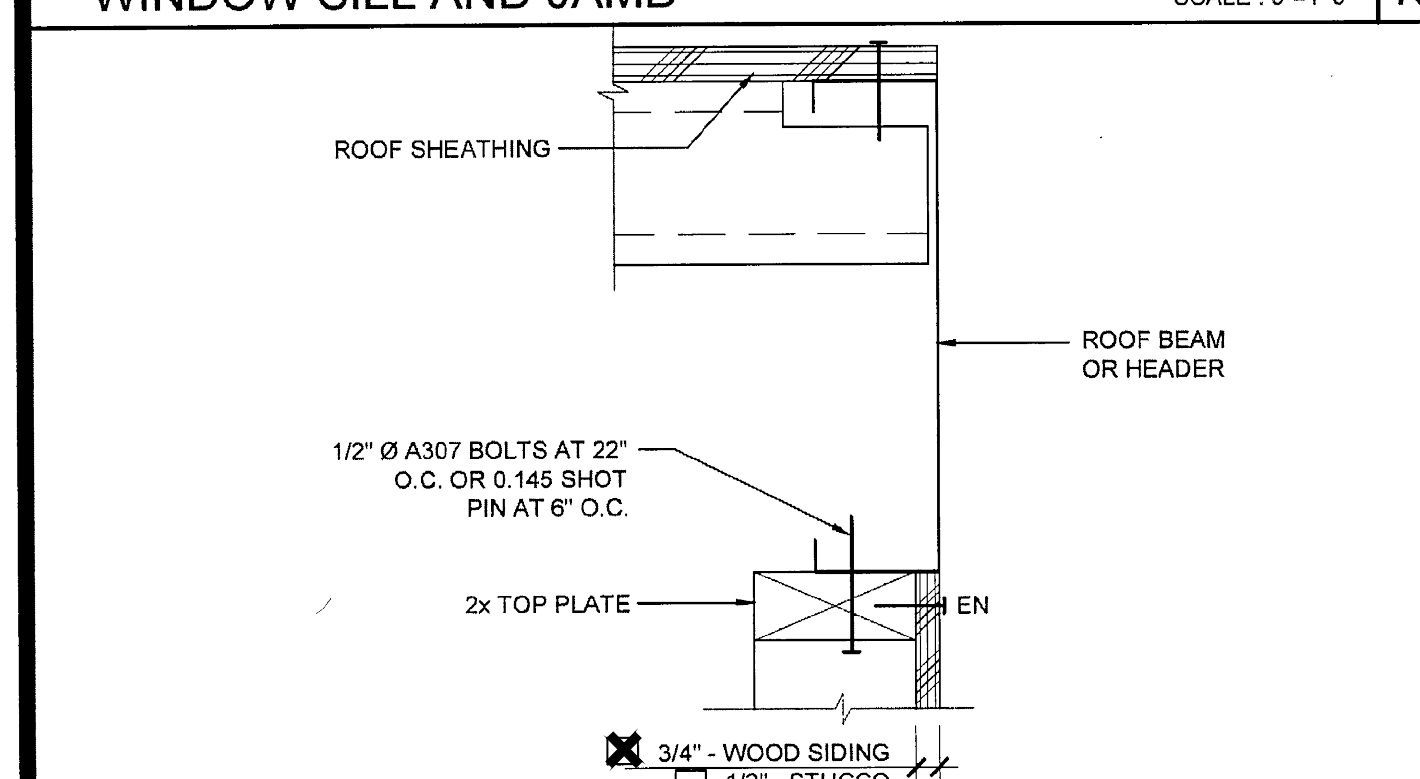


LET-IN BLOCK ATTACHMENT SCALE: 3/8"=1'-0"



SECTION AT SHEATHING TO STUD ATTACHMENT SCALE: 3/8"=1'-0"

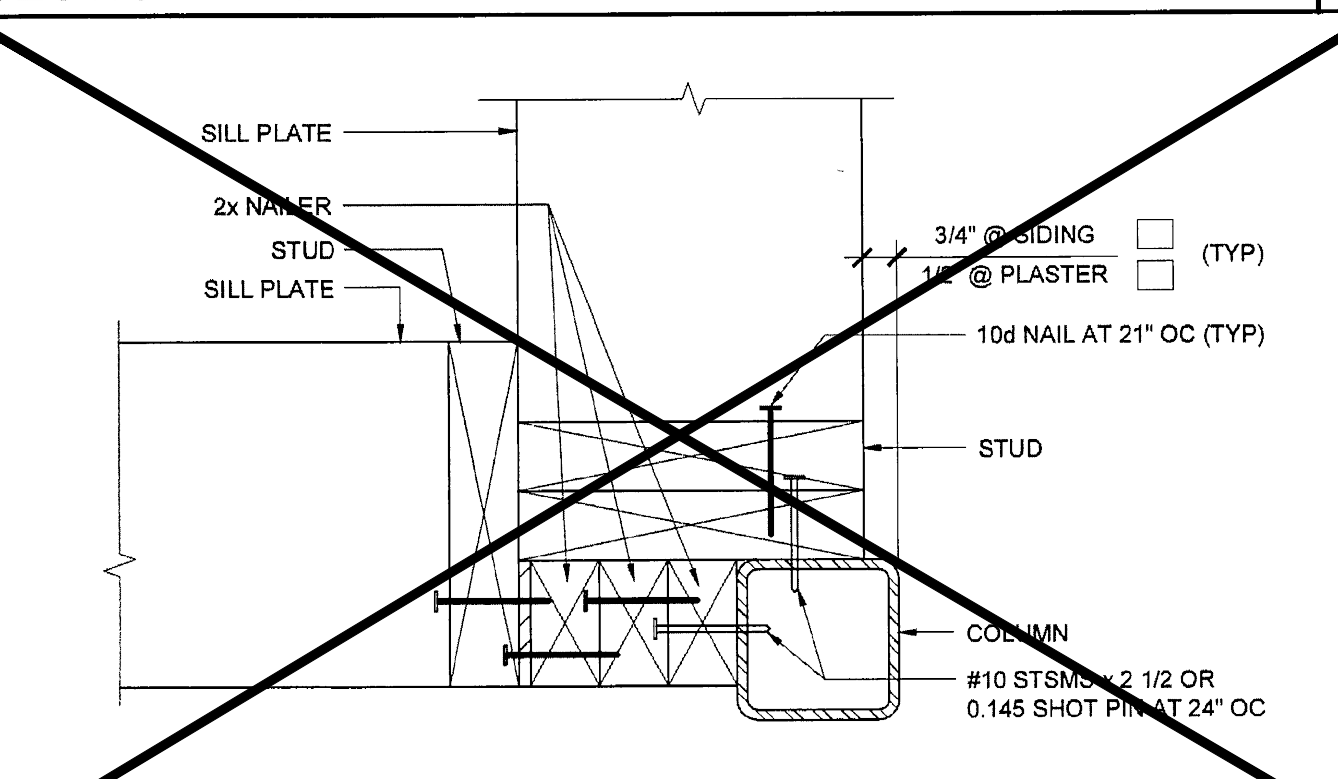
COLUMN HEIGHT	OPENING SIZE	EXT. FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER TYPE	NUMBER	SIZE	LUMBER TYPE	NUMBER	SIZE	LUMBER TYPE	NUMBER	SIZE	LUMBER TYPE
LESS THAN 9'-0"	3070	NO PLASTER	(1)	2X4	HF	#2	N/A		(2)	2X4	HF	#2		
		NO PLASTER (OPT)	(1)	2X4	DF	#2	N/A		(2)	2X4	DF	#2		
	4070	NO PLASTER	(1)	2X4	HF	#2	N/A		(2)	2X4	HF	#2		
		NO PLASTER (OPT)	(1)	2X4	DF	#2	N/A		(2)	2X4	DF	#2		
9'-0" TO 10'-0"	6040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(2)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2
	8040	NO PLASTER	(3)	2X4	HF	#2	(3)	2X4	HF	#2	(3)	2X4	HF	#2
		NO PLASTER (OPT)	(3)	2X4	DF	#2	(3)	2X4	DF	#2	(3)	2X4	DF	#2



TOP PLATE AT ROOF BEAM SCALE: 3/8"=1'-0"

DOOR	WINDOW	<input type="checkbox"/> STANDARD	<input type="checkbox"/> WELDED FRAME		
2070		26"	85"	28 1/4"	86 1/4"
3070		38"	85"	40 1/4"	86 1/4"
4070		50"	85"	52 1/4"	86 1/4"
6070		74"	85"	76 1/4"	86 1/4"
	4040	47 3/4"	47 5/8"	52 1/4"	52 1/4"
	6040	71 3/4"	47 5/8"	76 1/4"	52 1/4"
	8040	95 3/4"	47 5/8"	100 1/4"	52 1/4"
	6020	71 3/4"	23 5/8"	76 1/4"	28 1/4"
	8020	95 3/4"	23 5/8"	100 1/4"	28 1/4"

ROUGH OPENING SCHEDULE SCALE: 3/8"=1'-0"



COLUMN AT ENDWALL (2x8) SCALE: 3/8"=1'-0"

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING						4" CORNER OF WOOD WALL FRAMING (ZONE 5)					
		NUMBER	SIZE	LUMBER	TYPE	OC	NUMBER	SIZE	LUMBER	TYPE	OC		
LESS THAN 9'-0"	NO PLASTER	(1)	2X4	HF	#2	18" OC	(1)	2X4	HF	#2	18"		
	NO PLASTER (OPT)	(1)	2X4	DF	#2	18" OC	(1)	2X4	DF	#2	18"		
9'-0" TO 10'-0"	NO PLASTER	(1)	2X4	HF	#2	18" OC	(1)	2X4	HF	#2	12"		
	NO PLASTER (OPT)	(1)	2X4	DF	#2	18" OC	(1)	2X4	DF	#2	10"		

NOTE:

2X4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH

WALL FRAMING SCHEDULE - 100 MPH SCALE: 3/8"=1'-0"

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SILVER CREEK INDUSTRIES, INC.

"BUILDING FOR THE NEXT GENERATION"

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:
WALL FRAMING DETAILS
WOOD STUDS

ARCHITECT OF RECORD
SUBMISSION DATE

ARCHITECT OF RECORD
SUBMISSION DATE

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114027
DATE: APR 14 2015

REVISIONS

SILVER CREEK INDUSTRIES
24" x 40" PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14
P.C. SHEET NUMBER
S-5.10
-- HIGH SEISMIC --

Diagram illustrating the Exhaust Fan Installation. The components and steps shown are:

- ROOF SYSTEM
- ROOF CAP-BROWN #334 INSTALLED PER MANUFACTURER INSTRUCTIONS
- FLANGE SET IN CONT. MASTIC SET ALL 4 SIDES
- (1) .018 STRAP ON EACH SIDE OF EXHAUST FAN. FASTEN W/ #8 STMS TO UNIT AND STRUCTURAL ABOVE
- FLEXIBLE DUCTING
- 2'-0" CROSS BAR ATTACH TO FAN UNIT W/ 2-#8 STMS
- ADDITIONAL CROSS BAR W/ 2-#8 STMS TO FAN UNIT
- ACOUSTICAL CEILING TILE
- EXHAUST FAN

EXHAUST FAN INSTALLATION

SCALE : 1"=1'-0"

GENERAL NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.


BRACING NOTE

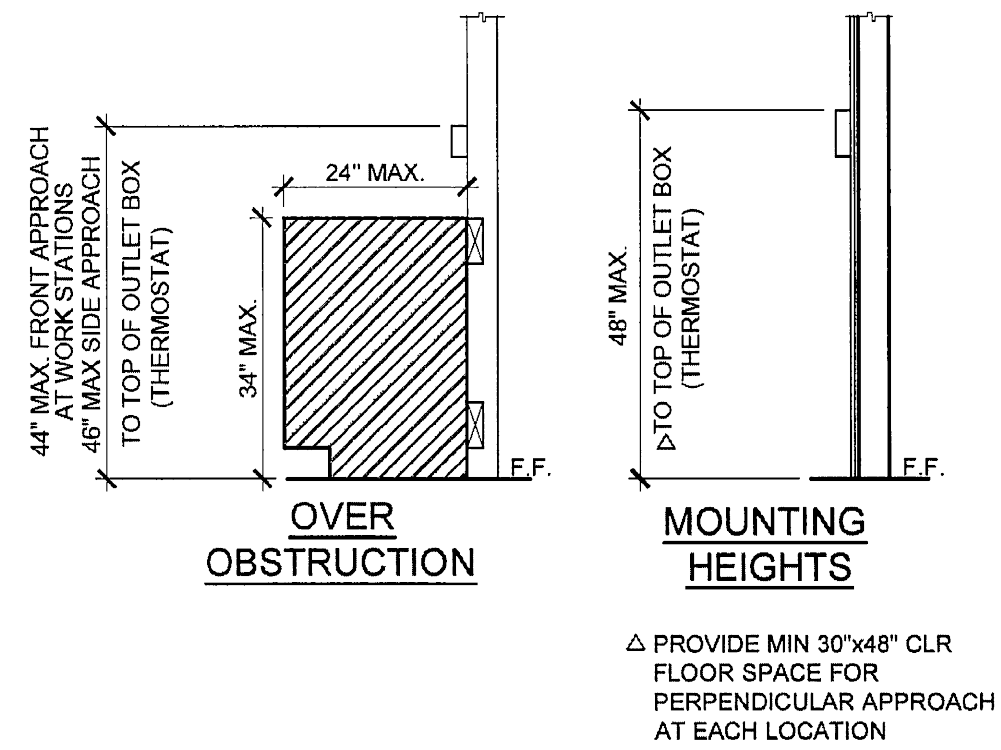
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2013 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).

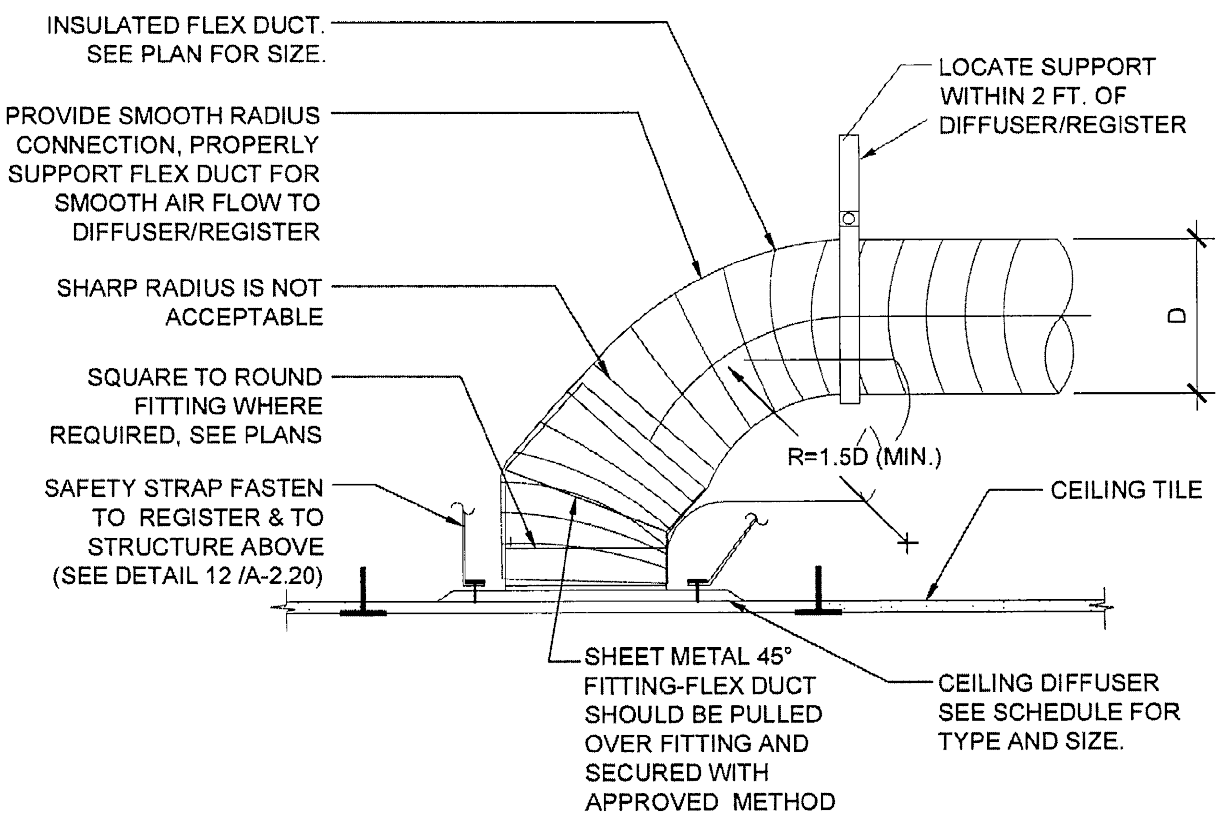
COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

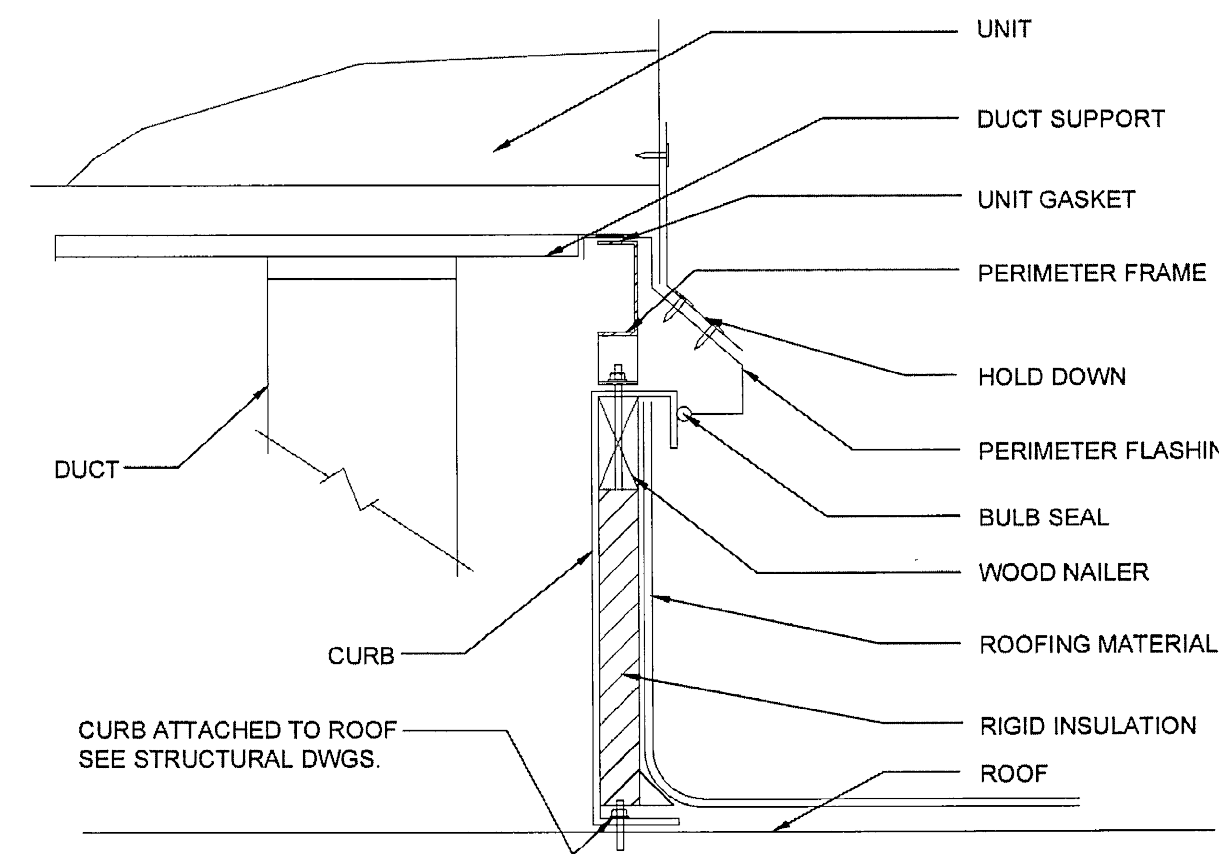
PERFORATED FACE GRILLE SCHEDULE (RETURN)			
ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR RETURN 	6"Ø	0 - 230	Perforated face
	10"Ø	230 - 460	For lay-in T-bar ceilings use Shoemaker 105P with 24 ga., 45 deg. angle. (Sizes as shown on Mech Plan.)
	14"Ø	460 - 710	



SCALE	A
NONE	



SCALE	B
NONE	



SCALE	C
NONE	

BUILDING SIZES VARY. SEE KEY PLANS ON SHEET A-0.3
FOR APPROPRIATE HVAC TONNAGE PER BUILDING SIZE.

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PHONE: 951-943-5393 FAX: 951-943-2211

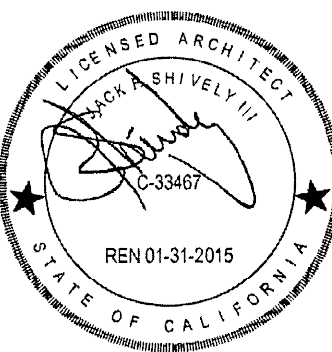
PROJECT NAME: _____

PALOMAR COLLEGE EDUCATION
CTR.

PALOMAR COLLEGE
SCIENCE BUILDING

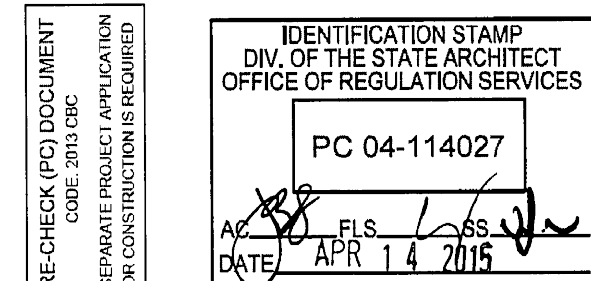
SHEET TITLE:

MECHANICAL NOTES, SCHEDULES, & DETAILS

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL: _____

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:

DRAWN BY:

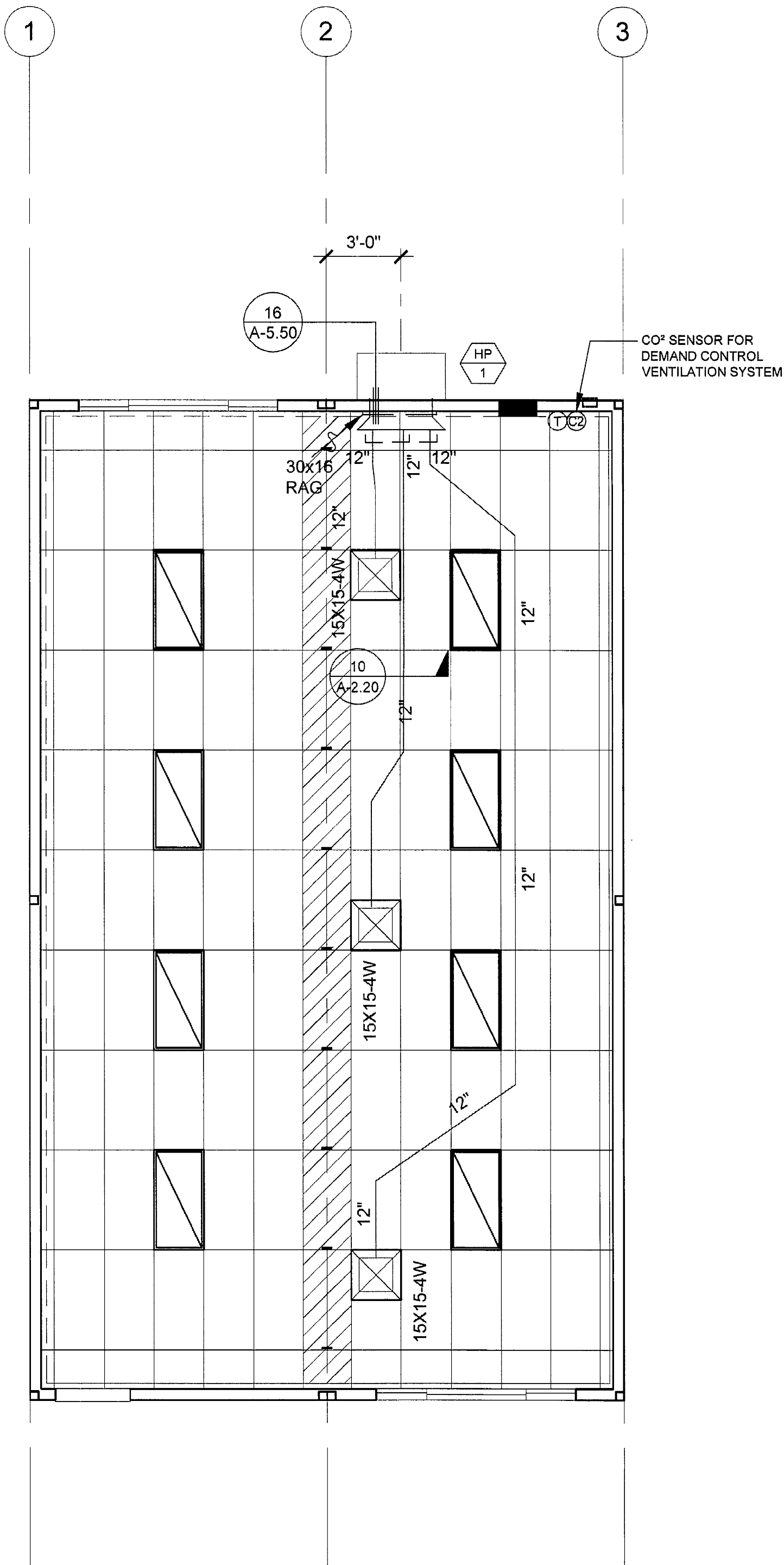
SCALE: AS NOTED

DATE:	09-10-12
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P.C. SHEET NUMBER

10. *Journal of the American Medical Association*, 2000; 283: 2689-2694.

M-0.1



MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION

SCALE: 1/4" = 1'-0" 1

9 EER			
SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE			
	STANDARD	OPTION #1	OPTION #2
TAG	HP-1	HP-1	HP-1
NOMINAL TONNAGE	4.0 TONS	5 TONS	3.5 TONS
MANUFACTURER	BARD	BARD	BARD
MODEL#	W48H2-A04	W60H2-A05	W42H2-A04
CFM	1550	1700	1400
STATIC PRESSURE	0.3	0.3	0.3
DRIVE	DIRECT	DIRECT	DIRECT
MCA	58	67	57
MOCP	60	69	60
VOLTAGE	208/230-1	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#4/#8	#6/#10
DESIGN RETURN AIR (DBWB)	80/67	80/67	80/67
SENSIBLE COOLING @ 95° F	35,600	39,600	33,700
TOTAL COOLING @ 95° F	44,000	54,000	42,000
HEATING CAP. BTUH @ 47° F	44,000	54,000	42,000
HEATING CAP. BTUH @ 17° F	26,000	32,000	26,000
OPERATING WEIGHT	450#	550#	550#
EER	10.0	9.00	9.00
COP @ 47° F	3.00	3.00	3.00
COP @ 17° F	2.00	2.00	2.00

NOTES:
PROVIDE SET-BACK THERMOSTAT.
MODEL# SHOWN IS FOR UNIT WITH OPTIONAL AUXILIARY HEAT STRIP. IF HEAT STRIP IS NOT USED THE MCA AND MOCP MUST BE REVISED. HEAT STRIPS LARGER THAN THE SIZE SHOWN MAY NOT BE USED.
MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT LOAD.
THE UNIT SHALL UTILIZE DEMAND CONTROL VENTILATION. THE CO2 SENSOR SHALL BE LOCATED SO THAT IT IS NOT EXPECTED TO BE OBSTRUCTED BY FURNITURE OR EQUIPMENT AND SHALL BE INSTALLED NO LESS THAN 36" AFF AND NO MORE THAN 72" AFF.
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE DOES NOT EXCEED 5 TONS AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.

10 EER			
SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE			
	STANDARD	OPTION #1	OPTION #2
TAG	HP-1	HP-1	HP-1
NOMINAL TONNAGE	4.0 TONS	5 TONS	3.5 TONS
MANUFACTURER	BARD	BARD	BARD
MODEL#	S49H2-A05	S61H2-A05	S43H2-A04
CFM	1400	1450	1250
STATIC PRESSURE	0.2	0.2	0.15
DRIVE	DIRECT	DIRECT	DIRECT
MCA	65	69	55
MOCP	70	69	60
VOLTAGE	208/230-1	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#4/#8	#6/#10
DESIGN RETURN AIR (DBWB)	80/67	80/67	80/67
SENSIBLE COOLING @ 95° F	34,400	37,800	31,200
TOTAL COOLING @ 95° F	41,000	55,000	41,500
HEATING CAP. BTUH @ 47° F	45,000	52,000	38,000
HEATING CAP. BTUH @ 17° F	25,000	30,000	23,000
OPERATING WEIGHT	550#	550#	550#
EER	10.00	10.40	10.50
COP @ 47° F	3.00	3.00	3.20
COP @ 17° F	2.00	2.00	2.10

NOTES:
PROVIDE SET-BACK THERMOSTAT.
MODEL# SHOWN IS FOR UNIT WITH OPTIONAL AUXILIARY HEAT STRIP. IF HEAT STRIP IS NOT USED THE MCA AND MOCP MUST BE REVISED. HEAT STRIPS LARGER THAN THE SIZE SHOWN MAY NOT BE USED.
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9 EER (GAS ALTERNATE)			
SINGLE PACKAGE VERTICAL AIR CONDITIONER WITH GAS FURNACE			
	STANDARD	OPTION #1	OPTION #2
TAG	AC-1	AC-1	AC-1
NOMINAL TONNAGE	4.0 TONS	5 TONS	3.5 TONS
MANUFACTURER	BARD	BARD	BARD
MODEL#	W48G2-AXB	W60G2-AXB	W42G2-AXB
CFM	1600	1750	1300
STATIC PRESSURE	0.2	0.2	0.2
DRIVE	DIRECT	DIRECT	DIRECT
MCA	38	40	32
MOCP	50	50	40
VOLTAGE	208/230-1	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#6/#10	#6/#10
DESIGN RETURN AIR (DBWB)	80/67	80/67	80/67
SENSIBLE COOLING @ 95° F	35,700	40,700	30,500
TOTAL COOLING @ 95° F	46,200	57,000	40,500
HEATING INPUT	75,000	75,000	75,000
HEATING OUTPUT	61,500	61,500	61,500
OPERATING WEIGHT	710#	725#	700#
EER	9.7	9.8	9.8
THERMAL EFFICIENCY (TE)	82	82	82

NOTES:
PROVIDE SET-BACK THERMOSTAT.
MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT LOAD.
THE UNIT SHALL UTILIZE DEMAND CONTROL VENTILATION. THE CO2 SENSOR SHALL BE LOCATED SO THAT IT IS NOT EXPECTED TO BE OBSTRUCTED BY FURNITURE OR EQUIPMENT AND SHALL BE INSTALLED NO LESS THAN 36" AFF AND NO MORE THAN 72" AFF.
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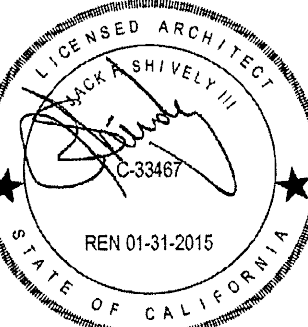
SILVER CREEK INDUSTRIES, INC.



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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE
SCIENCE BUILDING

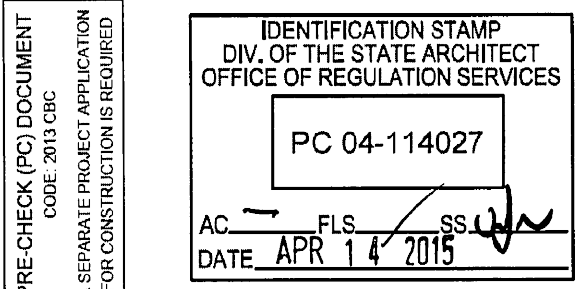
SHEET TITLE:
MECHANICAL PLAN
WALL MOUNT
24' x 40'



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

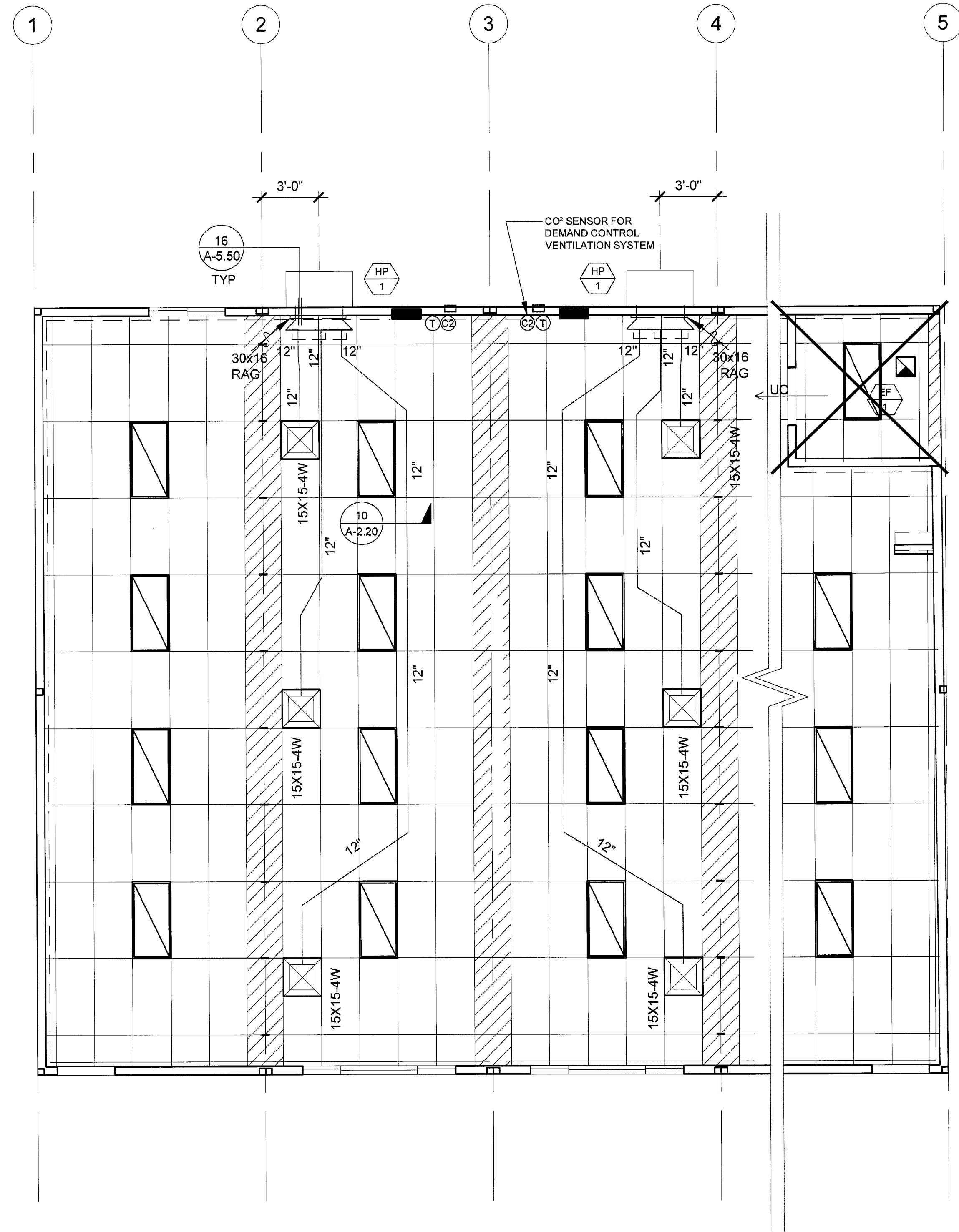
ORIGINAL PC STATE AGENCY APPROVAL



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SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)
PROJECT NO.:
DRAWN BY:
SCALE: AS NOTED
DATE: 09-10-14
P.C. SHEET NUMBER

M-1.01



9 EER

SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE

TAG	STANDARD	OPTION #1	OPTION #2
NOMINAL TONNAGE	HP-1	HP-1	HP-1
MANUFACTURER	4.0 TONS	5 TONS	5 TONS
MODEL#	W48H2-A04	W60H2-A05	W42H2-A04
CFM	1550	1700	1400
STATIC PRESSURE	0.3	0.3	0.3
DRIVE	DIRECT	DIRECT	DIRECT
MCA	58	67	57
MOCF	60	80	50
VOLTAGE	208/230-1	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#4/#8	#6/#10
DESIGN RETURN AIR (DBWB)	80/67	80/67	80/67
SENSIBLE COOLING @ 95° F	35,600	39,600	32,700
TOTAL COOLING @ 95° F	48,000	54,000	42,000
HEATING CAP. BTUH @ 47° F	44,000	54,000	42,000
HEATING CAP. BTUH @ 17° F	26,000	32,000	23,000
OPERATING WEIGHT	550#	580#	550#
EER	9.00	9.00	9.00
COP @ 47° F	3.00	3.00	3.00
COP @ 17° F	2.00	2.00	2.00

NOTES:
PROVIDE SET-BACK THERMOSTAT.
MODEL# SHOWN IS FOR UNIT WITH OPTIONAL AUXILIARY HEAT STRIP. IF HEAT STRIP IS NOT USED THE MCA AND MOCF MUST BE REVISED. HEAT STRIPS LARGER THAN THE SIZE SHOWN MAY NOT BE USED.
MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT LOAD.
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AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE DOES NOT EXCEED 5 TONS AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.

10 EER

SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE

TAG	STANDARD	OPTION #1	OPTION #2
NOMINAL TONNAGE	HP-1	HP-1	HP-1
MANUFACTURER	4.0 TONS	5 TONS	5 TONS
MODEL#	S48H2-A05	S61H2-A05	S48H2-A04
CFM	1400	1450	1250
STATIC PRESSURE	0.2	0.2	0.15
DRIVE	DIRECT	DIRECT	DIRECT
MCA	65	69	55
MOCF	70	80	50
VOLTAGE	208/230-1	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#4/#8	#6/#10
DESIGN RETURN AIR (DBWB)	80/67	80/67	80/67
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TOTAL COOLING @ 95° F	44,000	55,000	41,500
HEATING CAP. BTUH @ 47° F	45,000	52,000	38,000
HEATING CAP. BTUH @ 17° F	26,000	30,000	23,000
OPERATING WEIGHT	550#	580#	550#
EER	10.00	10.40	10.50
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9 EER (GAS ALTERNATE)

SINGLE PACKAGE VERTICAL AIR CONDITIONER WITH GAS FURNACE

TAG	STANDARD	OPTION #1	OPTION #2
NOMINAL TONNAGE	AC-1	AC-1	AC-1
MANUFACTURER	4.0 TONS	5 TONS	5 TONS
MODEL#	W48G2-AXB	W60G2-AXB	W42G2-AXB
CFM	1600	1750	1300
STATIC PRESSURE	0.2	0.2	0.2
DRIVE	DIRECT	DIRECT	DIRECT
MCA	38	44	32
MOCF	50	60	50
VOLTAGE	208/230-1	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#6/#10	#6/#10
DESIGN RETURN AIR (DBWB)	80/67	80/67	80/67
SENSIBLE COOLING @ 95° F	35,200	40,700	30,500
TOTAL COOLING @ 95° F	46,500	57,000	40,500
HEATING INPUT	75,000	75,000	75,000
HEATING OUTPUT	61,500	61,500	61,500
OPERATING WEIGHT	710#	725#	700#
EER	9.7	9.8	9.8
THERMAL EFFICIENCY (TE)	82	82	82

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"BUILDING FOR THE NEXT GENERATION"

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:

MECHANICAL PLAN WALL MOUNT
48' TO 120' x 40'

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC DOCUMENT)
A SEPARATE PRELIMINARY APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114027
AC DATE APR 11 2015

REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:

DRAWN BY:

SCALE: AS NOTED

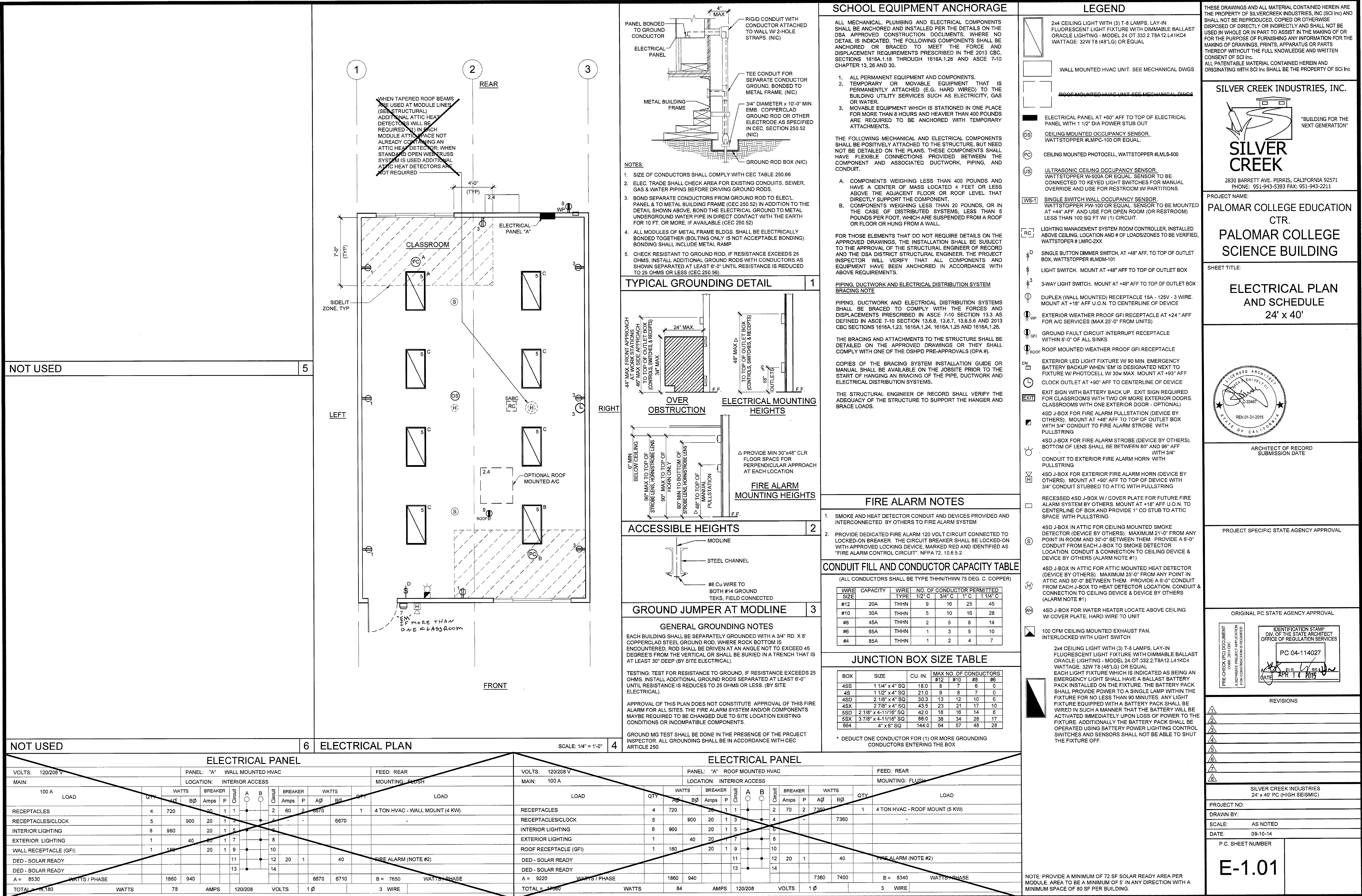
DATE: 09-10-14

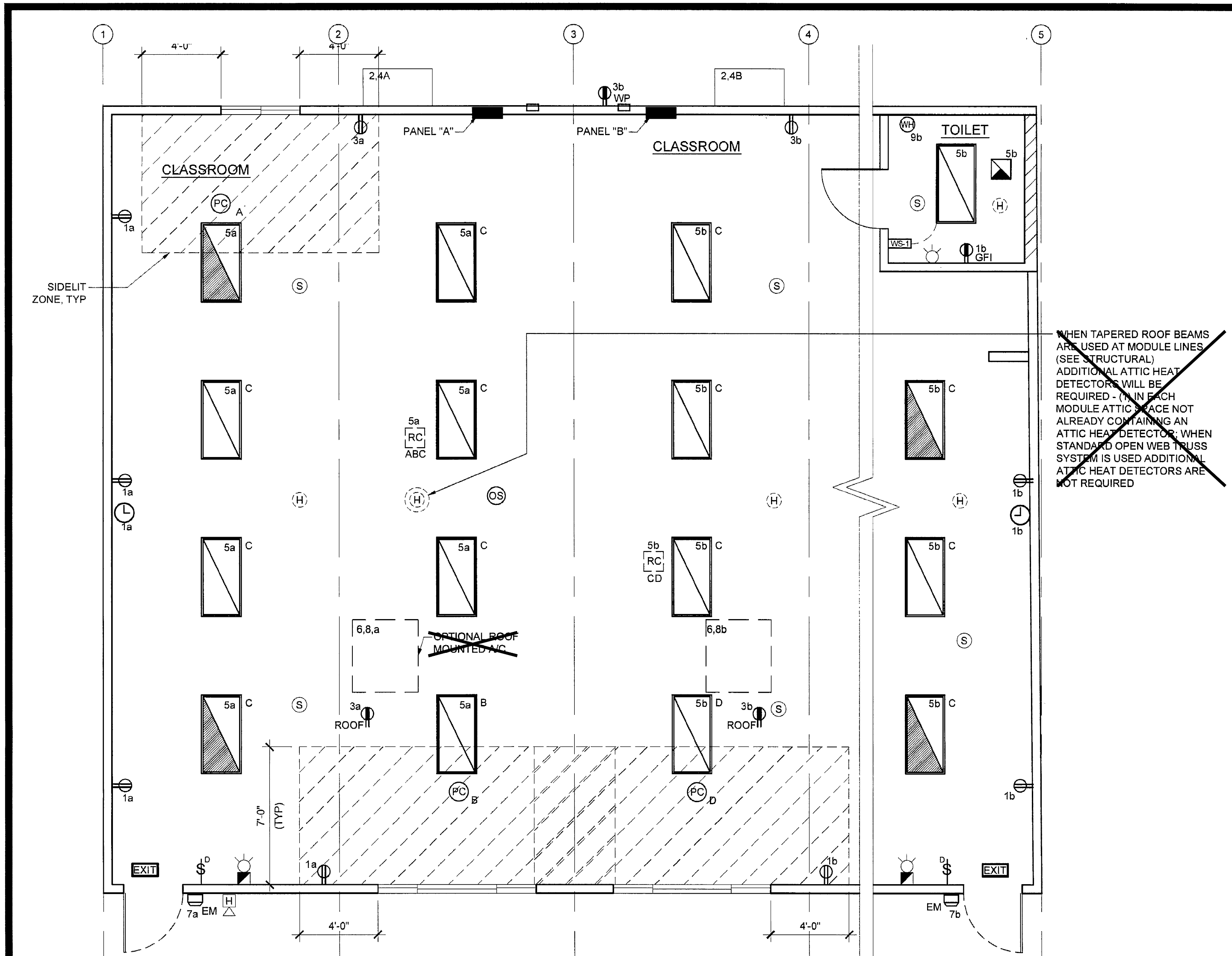
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MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION

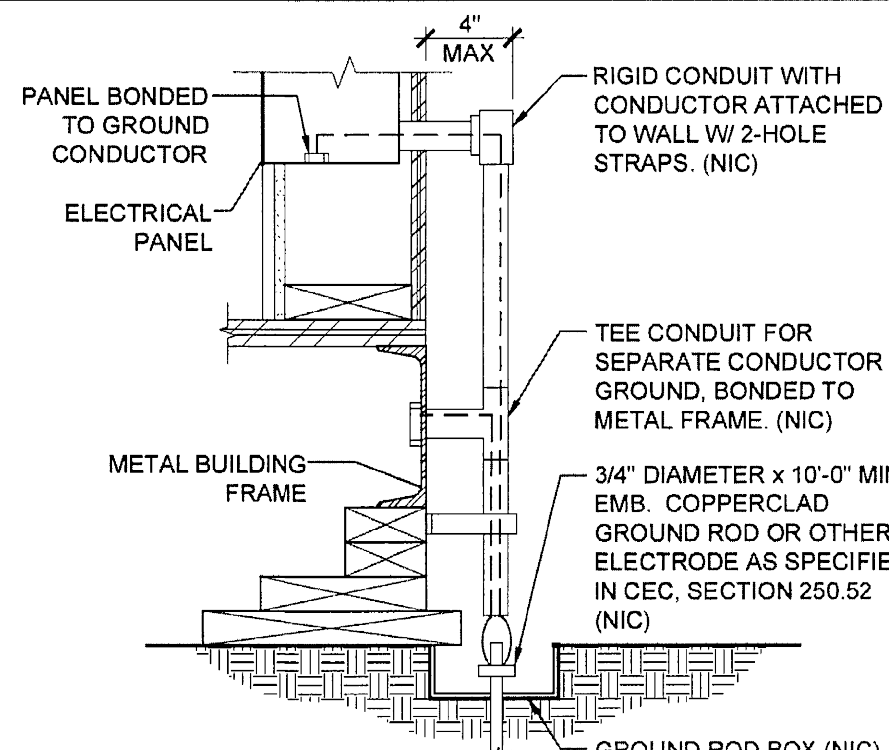
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ELECTRICAL PLAN

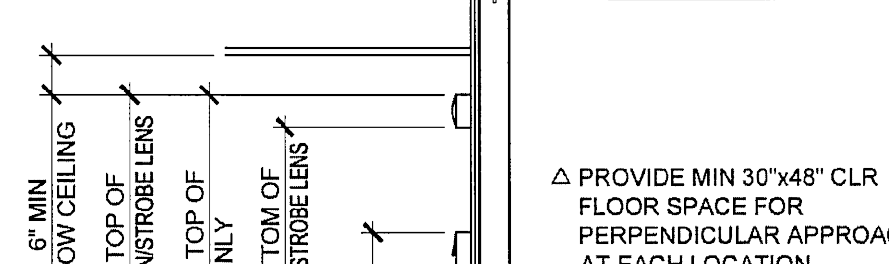
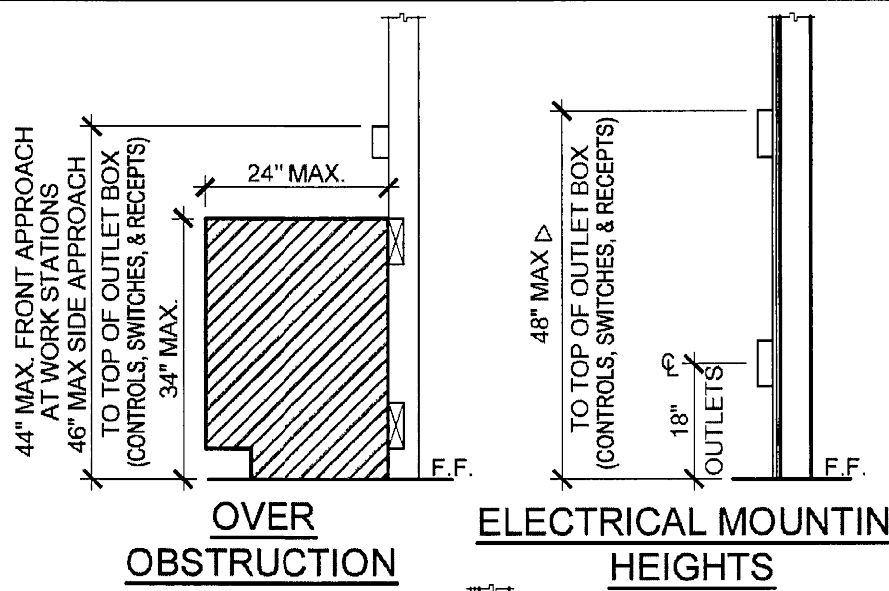
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- NOTES:
1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
 2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS
 3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
 4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP
 5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56)

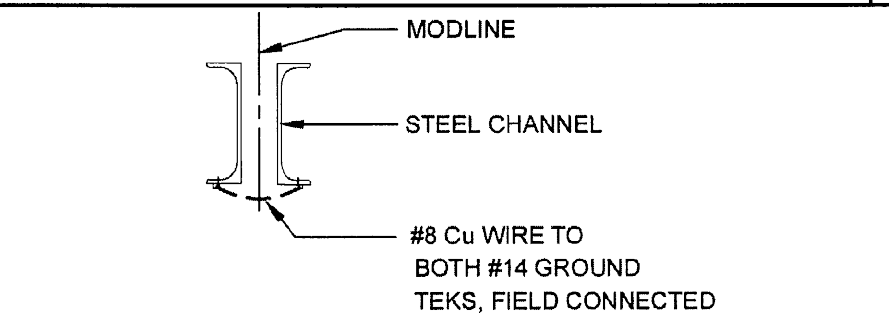
TYPICAL GROUNDING DETAIL

1



ACCESSIBLE HEIGHTS

2



GROUND JUMPER AT MODLINE

3

GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" X 8" COPPER/CLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAY BE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

SCHOOL EQUIPMENT ANCHORAGE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS, WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS, TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
2. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.6, 13.6.7, 13.6.5.6 AND 2013 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS, OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72, 10.6.5.2

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR PERMITTED
#12	20A	THHN	9 16 25 45
#10	30A	THHN	5 10 16 28
#8	45A	THHN	2 5 8 14
#6	65A	THHN	1 3 5 10
#4	85A	THHN	1 2 4 7

JUNCTION BOX SIZE TABLE

BOX SIZE	CU. IN.	MAX NO. OF CONDUCTORS
4SS 1 1/4" x 4" SQ	18.0	8 7 6 0
4S 1 1/2" x 4" SQ	21.0	9 8 7 0
4SD 2 1/8" x 4" SQ	30.3	13 12 10 8
4SX 2 7/8" x 4" SQ	43.5	23 21 17 10
5SX 2 1/8" x 4 1/16" SQ	42.0	16 16 14 6
5SX 3 7/8" x 4 1/16" SQ	86.0	36 34 28 17
6SA 4" x 6" SQ	144.0	64 57 48 28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

LEGEND

- 2x4 CEILING LIGHT WITH (3) T-8 LAMPS, LAY-IN FLUORESCENT LIGHT FIXTURE WITH DIMMABLE BALLAST ORACLE LIGHTING - MODEL 24 OT.332.2.T8A12.L41KC4 WATTAGE: 32W T8 (48"LG) OR EQUAL
- WALL MOUNTED HVAC UNIT. SEE MECHANICAL DWGS
- ROOF MOUNTED HVAC UNIT. SEE MECHANICAL DWGS
- ELECTRICAL PANEL AT +50' AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT
- CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER #MPC-100 OR EQUAL
- CEILING MOUNTED PHOTOCELL, WATTSTOPPER #MLS-500
- ULTRASONIC CEILING OCCUPANCY SENSOR, WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS
- SINGLE SWITCH WALL OCCUPANCY SENSOR, WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.
- LIGHTING MANAGEMENT SYSTEM ROOM CONTROLLER, INSTALLED ABOVE CEILING LOCATION AND # OF LAMPSONES TO BE VERIFIED, WATTSTOPPER #LMRC-20X
- SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF OUTLET BOX, WATTSTOPPER #LMDM-101
- LIGHT SWITCH, MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- 3-WAY LIGHT SWITCH, MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 120V - 3 WIRE, MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24" AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN "EM" IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL W/ 30W MAX. MOUNT AT +51" AFF
- CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXIT SIGN WITH BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL
- 4SD J-BOX FOR FIRE ALARM PULLSTATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING
- 4SD J-BOX FOR FIRE ALARM STROBE (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 8" AND 9" AFF WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING
- 4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING
- RECESSED 4SD J-BOX W/ COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING
- 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE. HARD WIRE TO UNIT
- 100 CFM CEILING MOUNTED EXHAUST FAN, INTERLOCKED WITH LIGHT SWITCH

- 2x4 CEILING LIGHT WITH (3) T-8 LAMPS, LAY-IN FLUORESCENT LIGHT FIXTURE WITH DIMMABLE BALLAST ORACLE LIGHTING - MODEL 24 OT.332.2.T8A12.L41KC4 WATTAGE: 32W T8 (48"LG) OR EQUAL
- EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE AREA TO PROVIDE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

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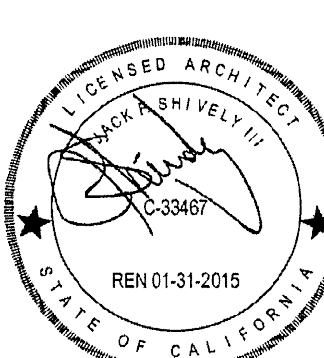
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PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING

SHEET TITLE:

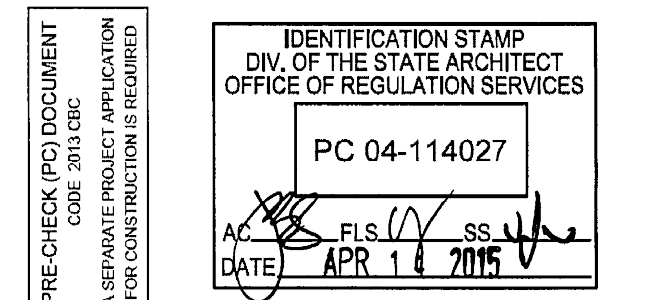
ELECTRICAL PLAN AND SCHEDULE
48" TO 120" x 40"



ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

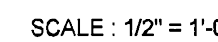
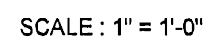


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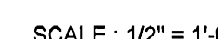
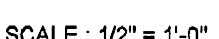
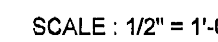
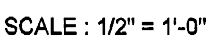
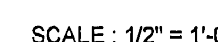
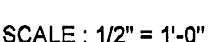
SILVER CREEK INDUSTRIES
24" x 40" PC (HIGH SEISMIC)

PROJECT NO:
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DATE: 09-10-14
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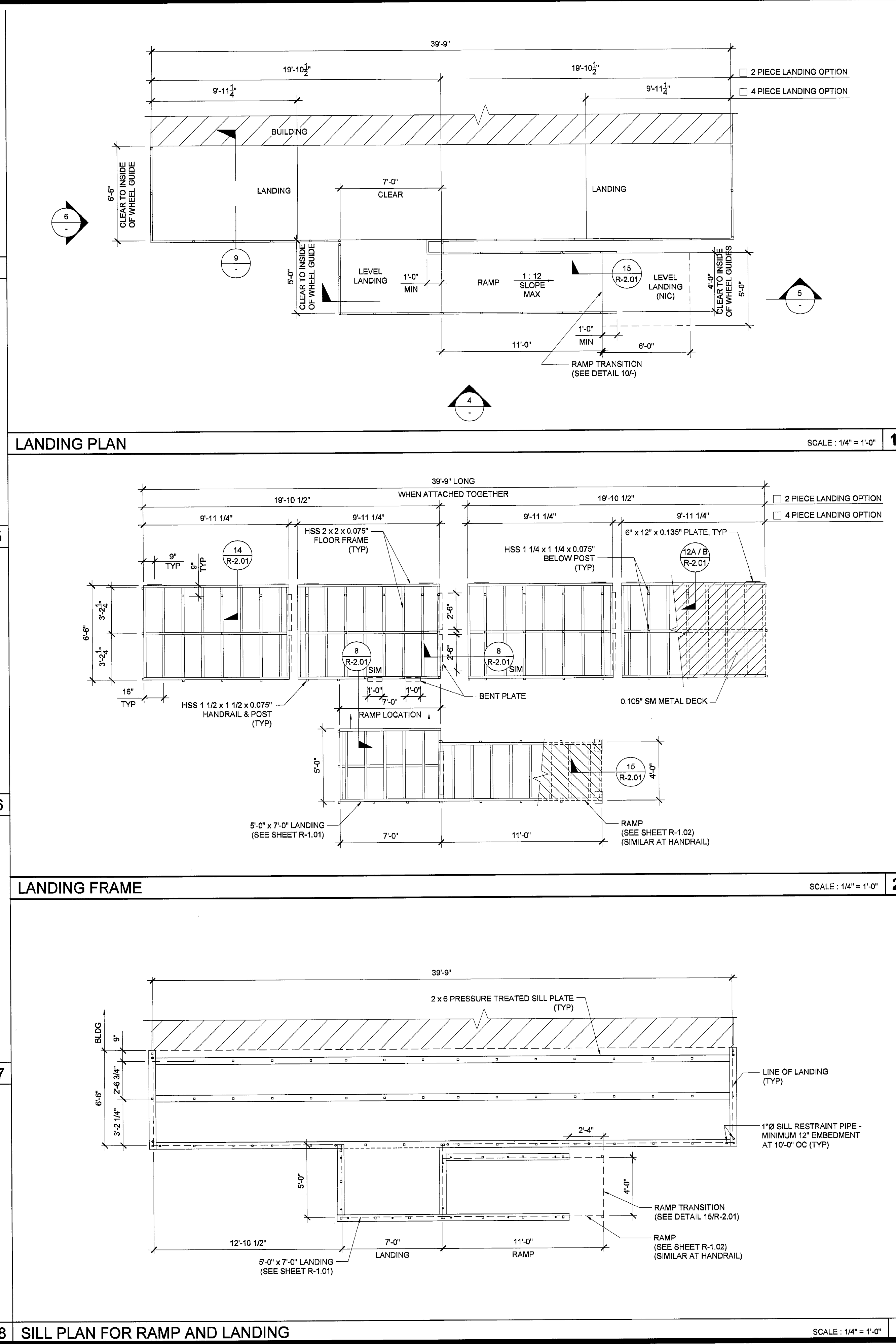
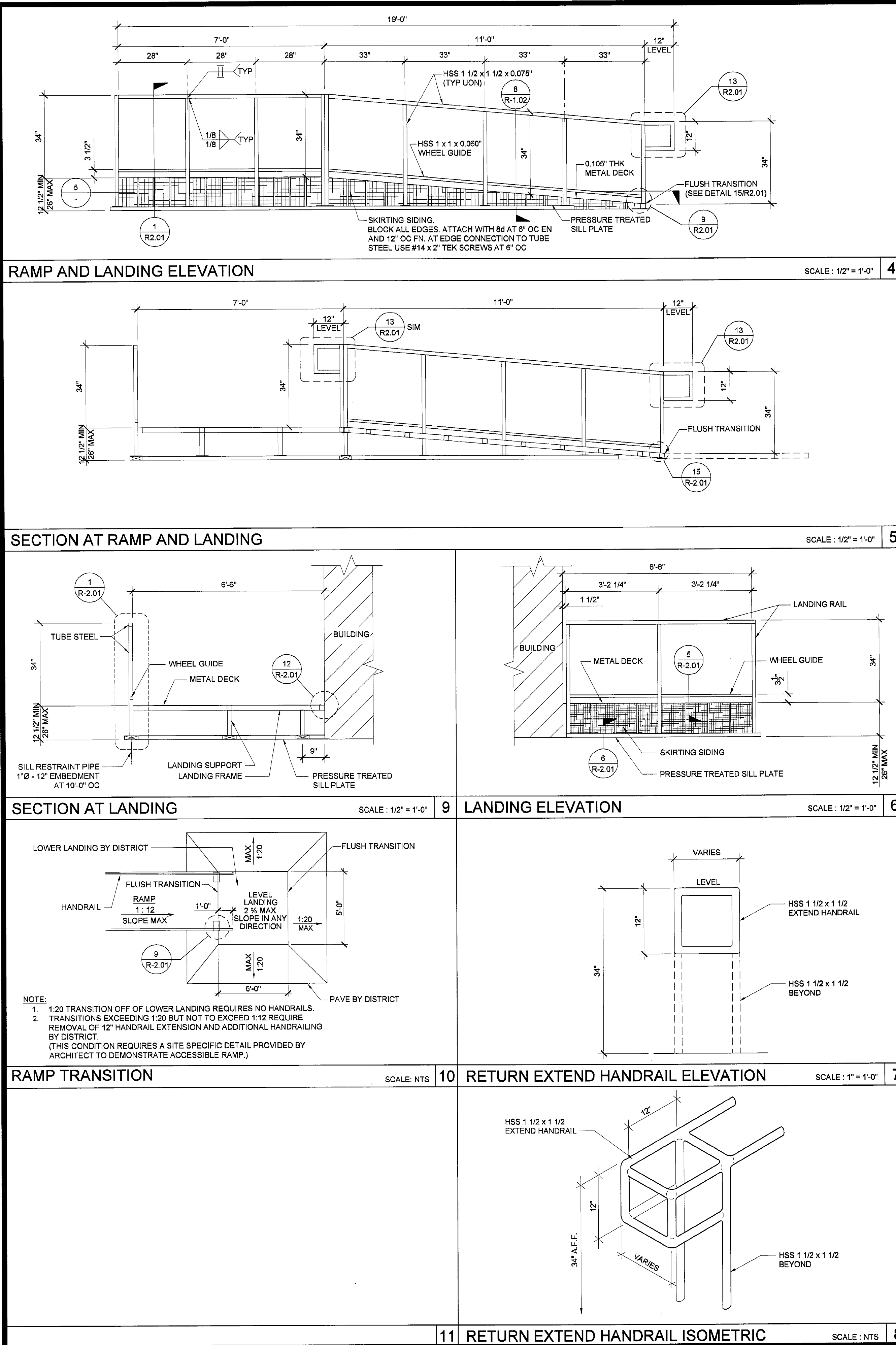
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RAMP LANDING



R-1.01



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SILVER CREEK INDUSTRIES, INC.

SILVER CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
**PALOMAR COLLEGE EDUCATION CTR.
PALOMAR COLLEGE SCIENCE BUILDING**

SHEET TITLE:
RAMP LANDING

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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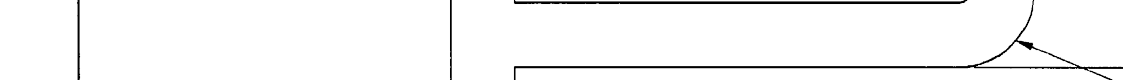
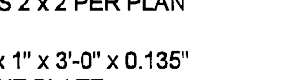
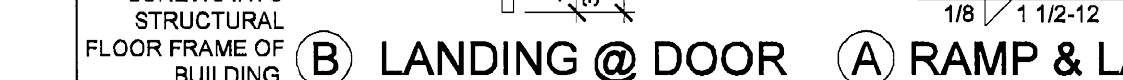
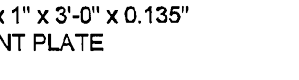
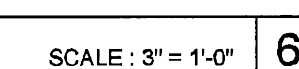
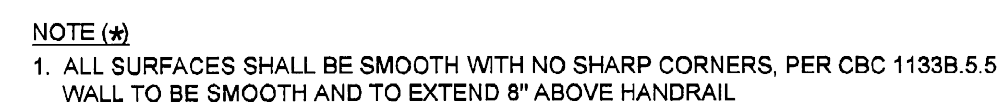
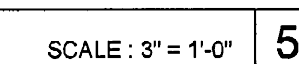
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114027
DATE: APR 14 2015

REVISIONS

SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

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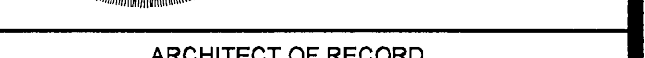
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
PALOMAR COLLEGE EDUCATION
CTR.

PALOMAR COLLEGE
SCIENCE BUILDING

SET TITLE:

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ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

RE-CHECK (RC) DOCUMENT
CODE: 2013-01C
SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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SILVER CREEK INDUSTRIES
24' x 40' PC (HIGH SEISMIC)

PROJECT NO:

DRAWN BY: _____

DATE:	AS NOTED
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40' PC Classroom Fire Sprinkler Plans

Classroom Sizes:

40 x 24, 40 x 36, 40 x 48, 40 x 60, 40 x 72, 40 x 84

40 x 96, 40 x 108, 40 x 120 and 40 x 12 Rest Room

This PC has a "Pre-Designed" Automatic Fire Sprinkler System (AFSS) installed.

IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THE MINIMUM FLOW (GPM) AND PRESSURE (PSI) CAN BE ATTAINED AT THE BASE OF THE RISER AT THE PROPOSED SITE FOR EACH PROPOSED BUILDING.

THIS PC REQUIRES:
MINIMUM GPM: 250
MINIMUM PSI: 44.9

Failure to attain the minim GPM/PSI may necessitate the installation of one or more of the following items/equipment.

- Water Tank - Sized to meet minimum requirements
- Fire Pump
- Back-up Power Supply
- Additional Underground Fire Line Taps
- All or any combination of the above or any others as required to ensure proper operation of the AFSS.

The following must be supplied to DSA at the time of submittal with the Site Plan for each proposed building with an AFSS:

- Minimum GPM/PSI required.
- Water Flow Data (See DSA Fire Sprinkler Submittal Guideline)
- Site Plan showing the location of the "Flow" and "Test" hydrants (fully dimensioned).
- All (new and existing) underground fire lines/piping - length and size showing location and method of underground piping restraints to test hydrant.
- The Locations of all (new and existing):
 - Fire Hydrants
 - Post Indicator Valves
 - Fire Department Connections
 - Pressure Reducers
 - Back-Flow Prevention/Detector Check Valves
 - Other fire related items/equipment as applicable.
- Hydraulic Calculations for the Underground piping with the available "GPM/PSI" at the base of each AFSS Riser (must meet or exceed minimum requirement).
- Any changes to the configuration (walls, ceilings, construction type) or Occupancy of the PC will necessitate additional/revised hydraulic calculations.

* Clearly indicate the sprinkler system requirements at the Base of the Riser calculated in GPM and PSI.

* No substitution of the Fire Sprinkler System components (piping, sprinkler type, hangars, fittings ect.) which differs from the PC Material Submittal shall be allowed.

* Any modification of wall layout or the addition of soffits or other Fire Sprinkler coverage obstructions will require this project to be resubmitted as a standard project and will not be conducted as an over the counter review.

* The Automatic Fire Sprinkler System for this PC has been designed for Light Hazard Occupancys only. The building shall be limited to Lecture Classroom uses without Special Hazards. Any variation of use which may affect the Sprinkler Hydraulic Design shall not be allowed. (Prohibited uses include but are not limited to stages, science labs, vocational shops, library book stackareas, and campus kitchens.)

* C-16 contractors shall only design sprinkler systems which they install. Design intended for general bids shall be prepared by a licensed Fire Protection Engineer or Mechanical Engineer.

* Any substitution of sprinkler contractor from that indicated on the project drawings for installation of this design will suspend the approval of this PC. Re submittal, review and approval of the reviewed

* Riser Flow and Tamper Switches and Back flow Preventer Tamper switches shall be interconnected to Fire Alarm System per CFC 903.4.

* Fire Service Underground shall be reviewed as a site specific Application. Water supply shall be designed to meet PC Sprinkler demand requirements plus a 10% cushion.

* Provide a site specific Fire Flow letter of certification from an approved water purveyor or local Fire Authority.

* Identify the Hydraulic Design Area on the Sprinkler piping plans for all PC options. Where used provide the design area reduction calculation on the plans.

* Provide corosion resistant sprinklers on the exterior of building.

Fire Protection Scope of Work

Install new Automatic Fire Sprinkler System per NFPA 13 2013 Edition and CFC 2013 edition Work to begin 6" above Finished Floor.

Fire Sprinkler System in Classroom units to be installed off site in Modular Factory

Final connection to fire service underground an tie-ins to be performed on building site.

All testing of Sprinkler System to be performed on building site.

Fire Service Main, FDC and Back Flow preventer provided by others

Fire Alarm System provided by others

Project Design Data:

Occupancy Type:	E
Construction Type:	VB
Hazard:	Light
Building Height:	Single Slope=12"-2, Duel Slope=10'-7
Floor Area:	
24 x 40	953 SQ. FT.
36 x 40	1430 SQ. FT.
48 x 40	1906 SQ. FT.
60 x 40	2380 SQ. FT.
72 x 40	2860 SQ. FT.
84 x 40	3336 SQ. FT.
96 x 40	3813 SQ. FT.
108 x 40	4290 SQ. FT.
120 x 2800	4766 SQ. FT.
Restroom	476 SQ. FT.

This PC is for *lecture classrooms* any modification of interior wall layout, change of door location, the addition of soffits or other item will require this project to be resubmitted.

DSA-OVERHEAD FIRE SPRINKLER SYSTEM GENERAL NOTES

- 2013 NFPA 13, Sec. 8.16.4.1.5 THE DESIGNER SHALL INDICATE ON THE PLANS, ALL PIPING SUBJECT TO FREEZING (WHERE WATER TEMPERATURE CAN NOT BE MAINTAINED ABOVE 40-DEGREES FAHRENHEIT) AND PROVIDE APPROVED PROTECTION
- 2013 NFPA 13, Sec. 10.10.2.1.1: UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO THE OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING. (THIS MUST BE WITNESSED BY THE PROJECT INSPECTOR)
- PROVIDE "NET SIGNED" WATER FLOW TEST INFORMATION NO MORE THAN 6-MONTHS OLD, AND INDICATE THE LOCATIONS AND HEIGHT ELEVATIONS OF THE TEST AND RESIDUAL FLOW HYDRANTS. WATER FLOW TEST INFORMATION MUST BE PROVIDED BY, OR WITNESSED BY, THE LOCAL WATER PURVEYOR, UTILITY COMPANY OR LOCAL FIRE DEPARTMENT.
- ARCHITECT OF RECORD (AOR), MECHANICAL ENGINEER (ME) AND FIRE PROTECTION CONTRACTOR (C-16) SHALL AFFIX THEIR SEAL, STAMP AND SIGN ALL SUBMITTALS, OR PROVIDE DOCUMENTATION PER DSA IR-16.
- 2013 NFPA 13, Sec. 8.2.2: PROVIDE A SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEMER THAN SIX (6) SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS (12 SPARE SPRINKLER HEADS FOR SYSTEMS OF 300 TO 1000 SPRINKLERS)
- 2013 NFPA 13, SEC. 8.17.2.4.7: SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING "RISER ROOM" IDENTIFICATION.
- 2013 NFPA 13, SEC. 9.3.6.3: THE END (LAST) SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
- 2013 NFPA 13, FIGURE 10.10.1: A COPY THE COMPLETED AND SIGNED "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING" SHALL BE INCLUDED WITH THE SUBMITTAL.
- 2010 NFPA 13, Sec. 10.10.2.2: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200-PSI, OR 50-PSI IN EXCESS OF SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2-HOURS. (TEST TO BE WITNESSED BY THE PROJECT INSPECTOR)
- 2013 NFPA 13, FIGURE 25.1: SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD IT TO DSA FOR FILING IN PROJECT RECORDS.
- 2013 NFPA 13, Sec. 24.5.4: A PERMANENT HYDRAULIC CALCULATION DESIGN INFORMATION PLACARD SHALL BE ATTACHED TO EACH RISER.
- 2013 NFPA 72, SEC. 17.12.2.2 THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS OPENED, AN ALARM WILL SOUND NO MORE THAN 90-SECONDS AFTER THE INTIAL FLOW. (TEST TO BE WITNESSED BY THE PROJECT INSPECTOR)
- 2013 CBC, SEC. 903.4.1: THE MAIN FIRE ALARM PANEL VALVE MONITORING, WATER-FLOW AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT, AND SHALL AUTOMATICALLY BE TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
- 2013 NFPA 13, SEC. 6.9.1, AND 2013 CBC, 903.4.2: THE FLOW SWITCH SHALL BE CONNECTED TO AN APPROVED EXTERIOR ALARM BELL OR OTHER AUDIBLE ALARM DEVICE (SIZE NOT MANDATED BY CODE) AT EACH RISER. APPROVED IDENTIFICATION SIGNS STATING "SPRINKLER FIRE ALARM - WHEN ALARM SOUNDS CALL 911/FIRE DEPARTMENT" SHALL BE INSTALLED ON THE EXTERIOR ALARM BELL.
- 2013 CBC, SEC. 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARM SIGNALS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS (TEST TO BE WITNESSED BY THE PROJECT INSPECTOR.)
- 2013 CBC, 903.4.2, AND 2013 NFPA 13, SEC. 8.17.4.2.1 THROUGH 8.17.4.2.4: THE INSPECTOR'S TEST VALVE LOCATION SHALL BE INSTALLED IN ANY LOCATION DOWNSTREAM OF FLOW SWITCH. THE PIPE SIZE SHALL BE NO LESS THAN 1-INCH WITH A SMOOTH BORE, CORROSION-RESISTANT ORIENT, PROVIDING EQUIVALENT FLOW OF THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED ON THE SYSTEM. THE DISCHARGE SHALL BE TO THE EXTERIOR OF THE BUILDING.
- CCR TITLE -19 (PUBLIC SAFETY), ARTICLE 906 (A): A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION (FDC) OR ON THE RISER FOR THE FIRE SPRINKLER SYSTEM, INDICATING THE DATE OF INSTALLATION AND/OR THE DATE SERVICE WAS PERFORMED, AND THE LICENSE NUMBER OF THE PERSON PERFORMING THE SERVICE WORK.

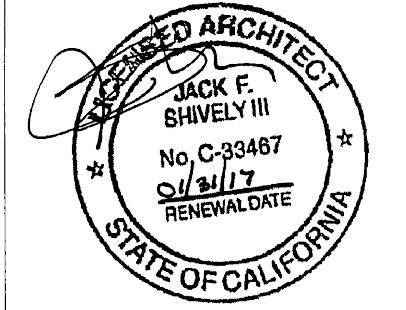
Sheet Index

SHEET	DESCRIPTION
FS 1	Cover Sheet/Project Data
FS 2	Fire Sprinkler Plans w/ Right Restroom
FS 3	Fire Sprinkler Plans w/ Left Restroom
FS 4	Building Sizes 40'x 24'- 40'x 84'
FS 5	Building Sizes 40'x 96' and 40'x 108'
FS 6	Details



Building for the Next Generation
2380 Barret Avenue
Perris, CA 92571

ARCHITECT STAMP:



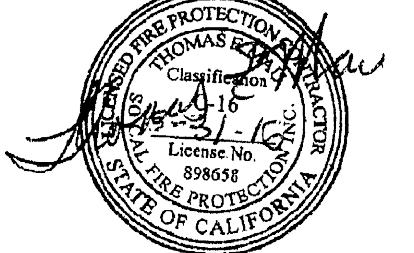
ENGINEER STAMP:



CONSULTANT:

So Cal Fire Inc.
14102 Holt Avenue
North Tustin, CA 92715
714 388 0230
C-16 # 898658

CONSULTANT STAMP:



PROJECT NAME:

40' PC Fire Sprinkler Plans

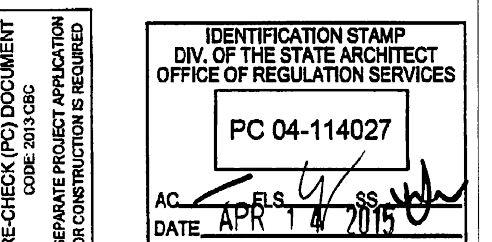
ISSUE DATES:
DESCRIPTION: DATE:
Cover Sheet 04/13/15

PROJECT NO: PC 1

DRAWN BY: Kris Michel

CHECKED BY:

ORIGINAL PC STATE AGENCY APPROVAL



SHEET TITLE:
Project Data

SHEET NUMBER:

FS 1

Riser Tag	
Design Basis	
Occupancy:Light Hazard	
Total Sprinklers:82	
Number Of Sprinklers Calculated: 7	
K-Factor:5.6	
Orifice Size:0.5	
Design Density:0.100gpm/ft²	
Average Density:0.10³gpm/ft²	
Area of Application:900.00ft² (Actua 1070.85FT²)	
Demand at Base Of Riser or Point Of Connection	
Total Demand Flow(gpm): 110.38	
Pressure(psi): 30.187	
Water Supply Information At Time Of Design	
Static Pressure(psi):45.000	
Residual Pressure(psi):44.900	
Supply Flow(gpm):250.00	
Total Demand Flow(gpm): 210.38	
Total Demand Pressure(psi): 30.187	

HYDRAULIC SYSTEM	
This building is protected by a hydraulically designed automatic sprinkler system.	
Location: CLASSROOM ATTIC	
Sprinkler Information:	
NUMBER OF SPRINKLERS FLOWING	7
MANUFACTURER	TYCO
MODEL	TY3131
1.55 UPRIGHT	QUICK RESPONSE
1/2" ORIFICE	K-FACTOR 5.6
Basis of Design	
STANDARD	NFPA 2013 EDITION
HAZARD GROUP	LIGHT HAZARD
DENSITY	0.1 GPM/SQ. FT.
DESIGNED AREA OF DISCHARGE	916 SQ. FT.
System Demand	
DEMAND AT THE BASE OF THE RISER	110.38 GPM
DEMAND AT THE SOURCE	210.38 GPM
DEMAND AT THE REMOTE SPRINKLER	30.187 PSI
HOSE STREAM ALLOWANCE	0 GPM INSIDE
	100 GPM OUTSIDE
REMOTE SPRINKLER FLOW	15.8 GPM @ 7.90 PSI

GENERAL OVERHEAD NOTES

All design and installation shall be in accordance with NFPA 13, 2013 Edition and local authority.

System is designed for Light Hazard occupancy @ 0.10 gpm/sq. ft. over the hydraulically most remote 900 sq. ft. including 100gpm outside hose stream allowance. Above ceiling heads are spaced @ maximum 168 sq. ft. due to the structure being in the category of "combustible obstruction" with joists spaced more than 3'-0" apart per NFPA 13, Table 8.6.2.2.1(a). Below ceiling sprinklers are @ maximum 225 sq. ft. spacing.

All pipe 1"-1 1/2" to be Sch 30 Dyna-Thread or Sch 40 and 175 lb. WWP cast iron fittings (ANSI-B16.9). (Sch 40 used in Hydraulic Calculations.)

All pipe 2" and larger to be schedule 10 Dyna Flow with grooved coupling, and style #750 reducing coupling.

Propriety and central station monitoring to be provided by others.

All wiring to be provided by others.

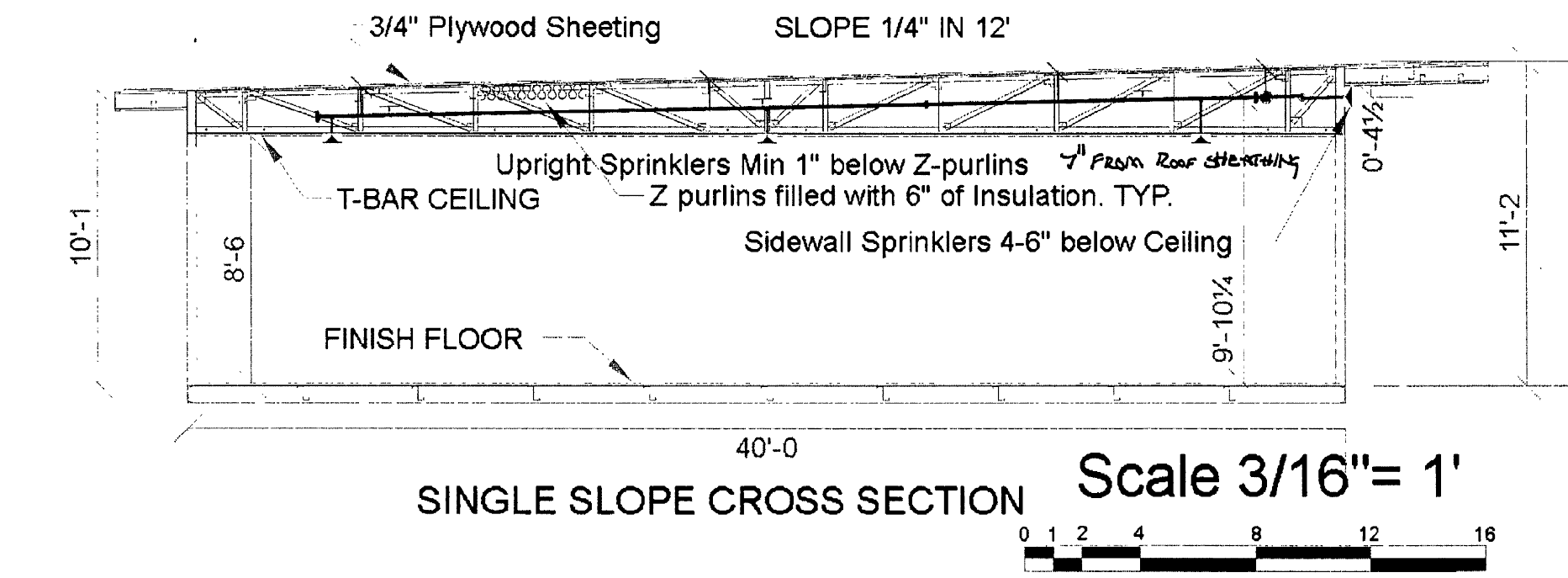
Install earthquake bracing as shown per NFPA 13 using 1" schedule 40 piping to support all earthquake braces.

The length of an unsupported arm over to a sprinkler shall not exceed 24". 12" if subject to > 100 PSI static pressure.

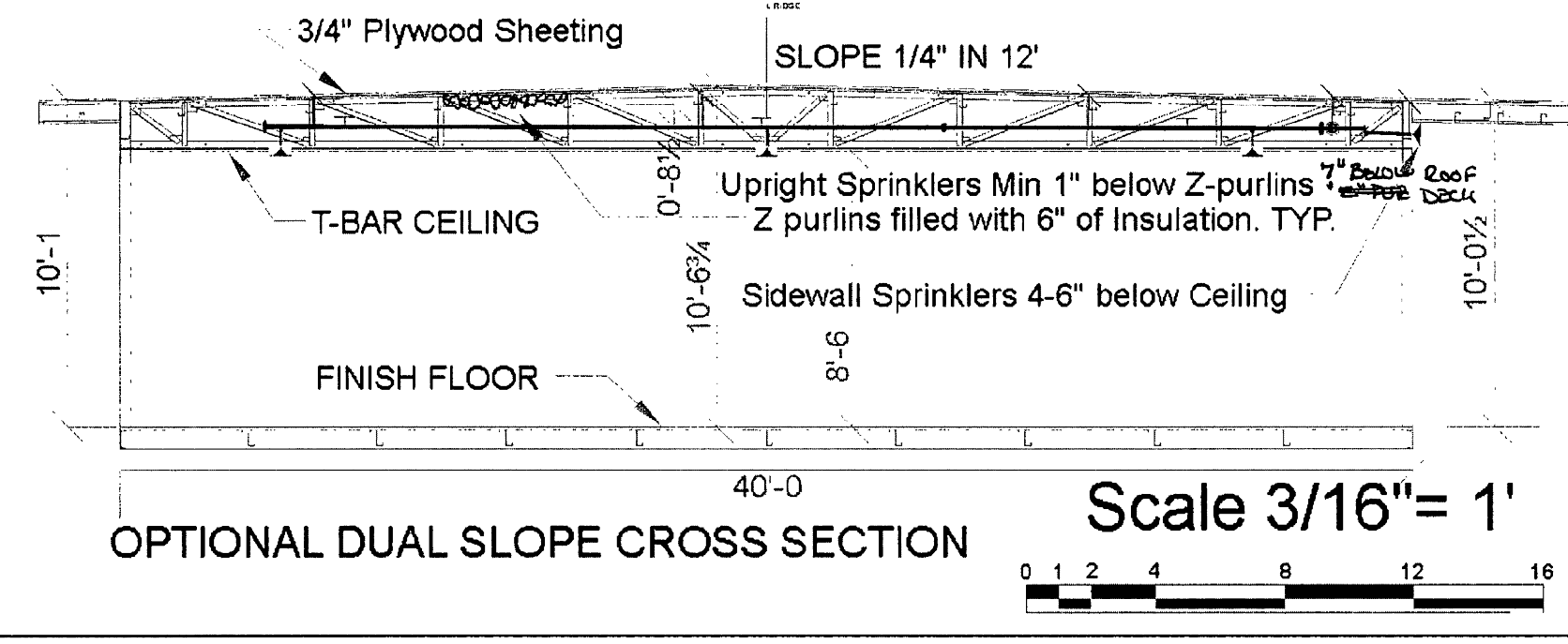
All new systems including yard shall be hydraulically tested at not less than 200 psi (13.8 bars) pressure for two hours, or at 50 psi (3.4 bars) in excess of the maximum pressure, when maximum pressure is in excess of 150 psi.

Install surge protection at end of all branch lines.

Attach splay wire to ends of branch lines. Splay wires not required where hangers are less than 6" from point of attachment to top of pipe. NFPA13 9.3.6.5



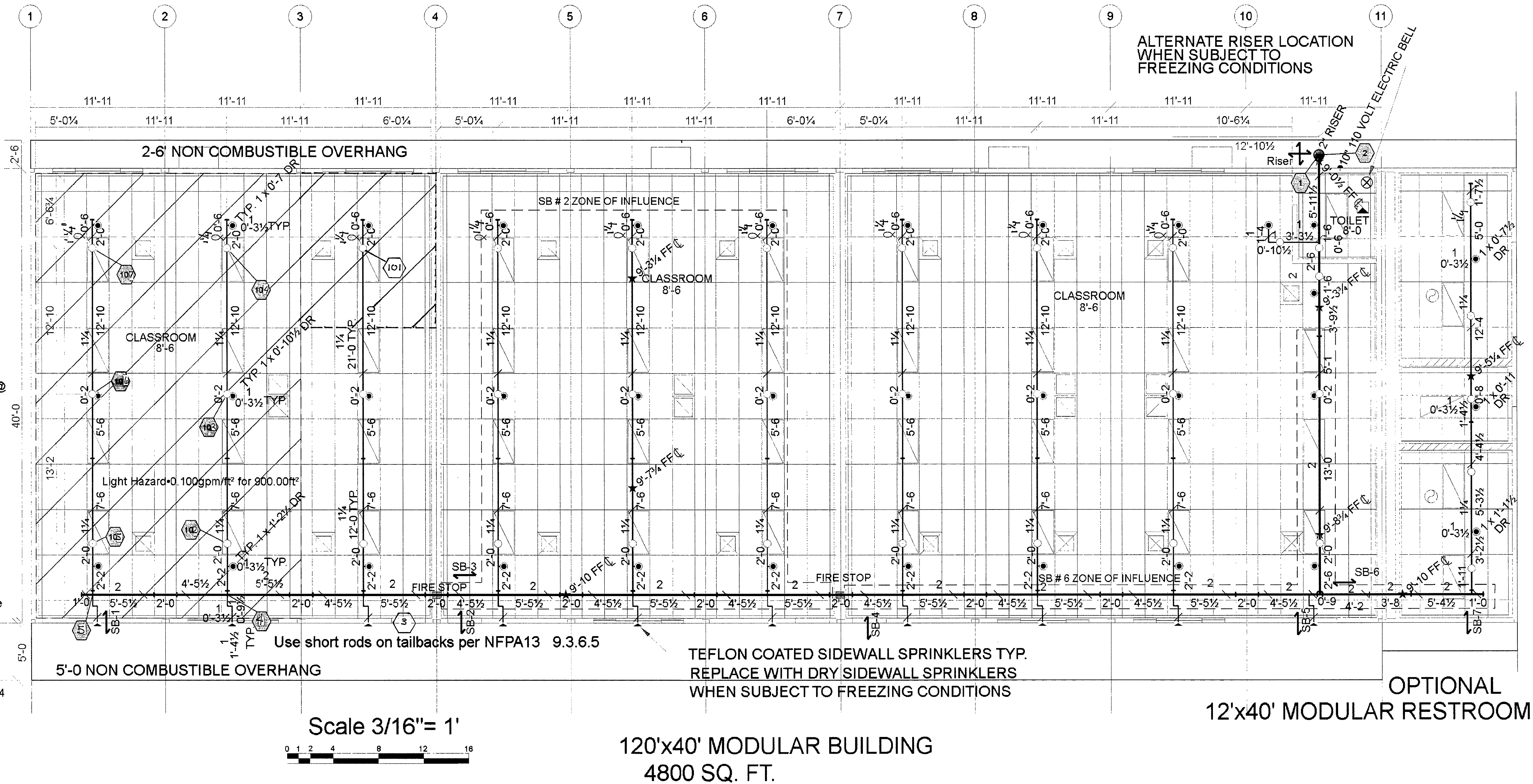
Sprinkler Legend										
Symbol	Manufacturer	SIN/Model	Quantity	K-Factor	Type	Size	Response	Orifice	Finish	Temperature
●	TYCO	TY323	35	5.6	Pendent	1/2	Quick	1/2"	Chrome	155°F
◐	TYCO	TY3331	10	5.6	Sidewall	1/2	Quick	1/2"	Teflon	155°F
○	TYCO	TY313	37	5.6	Upright	1/2	Quick	1/2"	Brass	200°F
			Total = 82							



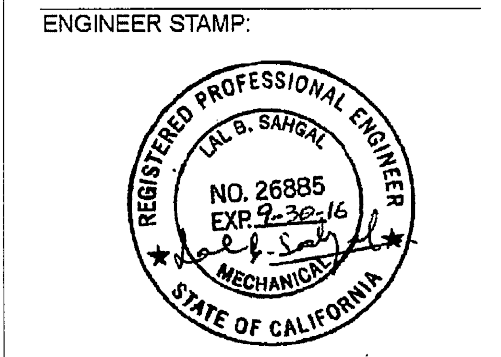
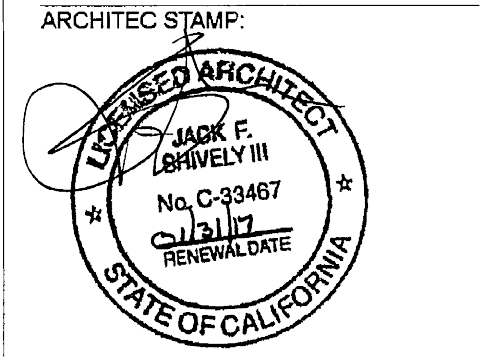
Sway Brace # 2 Zone Legend Lateral						
Diameter	Description	Unit Quantity	Quantity	Unit Weight	Wp	Weight
2	Pipe, Dyna-Flow/Super Flo	(3)9'-11+(3)2'-0	35'-9	3.76lb	1.3	174.58lb
1	Pipe, Schedule 40	(2)0'-3 1/2+(2)0'-9 1/2+(2)1'-4 1/2	4'-11	2.05lb	1.3	13.1lb
1 1/4	Pipe, Schedule 40	(3)11'-8+(3)21'-0	98'-0	2.93lb	1.3	373.28lb
					Total Weight (x Wp)	560.97lb
					Total Load (Fp x 1.15)	645.11lb

Sway Brace Zone Legend						
Diameter	Description	Unit Quantity	Quantity	Unit Weight	Wp	Weight
2	Pipe, Dyna-Flow/Super Flo	6'-4 1/2+3'-8+4'-2+22'-6+5'-2 1/2+(3)9'-11+(3)2'-0	77'-8	3.76lb	1.3	380.69lb
					Total Weight (x Wp)	380.69lb
					Total Load (Fp x 1.15)	437.8lb

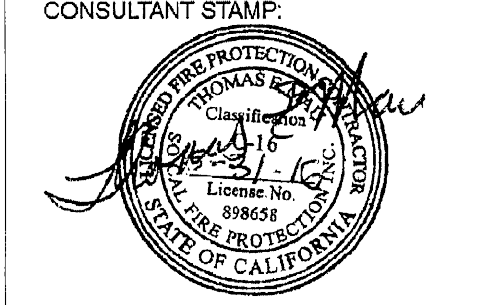
ALL WALLS ARE FULL HEIGHT UNLESS OTHERWISE NOTED
1-1/4" BRANCH LINES HOLD 2.56 GALLONS OF TRAPPED WATER EACH.
NO AXILLARY DRAINS REQUIRED



2380 Barrel Avenue
Perris, CA 92571



So Cal Fire Inc.
14102 Holt Avenue
North Tustin, CA 92715
714 988 0230
C-16 # 898658



PROJECT NAME:

40' PC Fire Sprinkler Plans

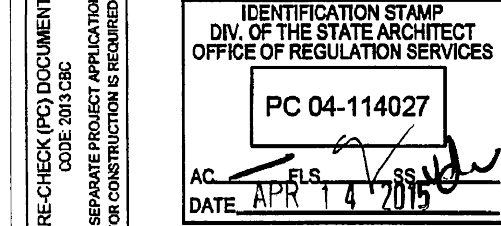
ISSUE DATES: 40' PC
DESCRIPTION: 40' PC
DATE: 04/13/15

PROJECT NO: PC 1

DRAWN BY: Kris Michel

CHECKED BY:

ORIGINAL PC STATE AGENCY APPROVAL

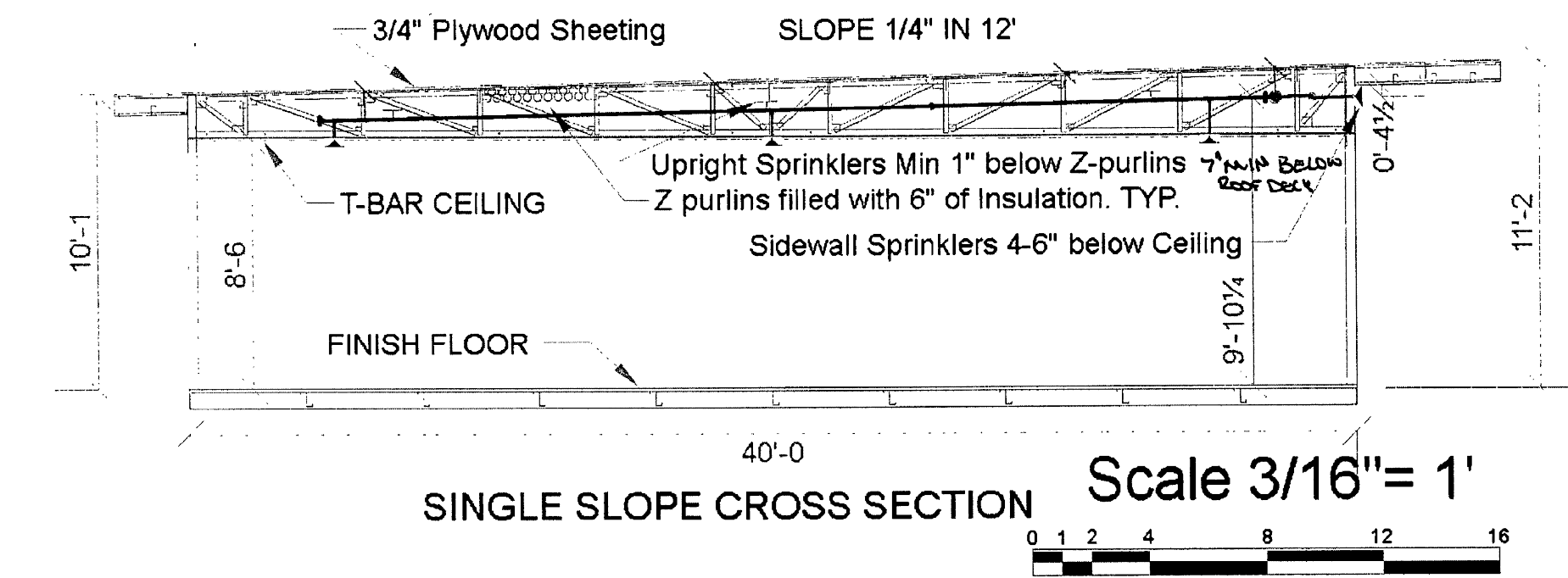


SHEET TITLE:
120 x 40+Right Bath

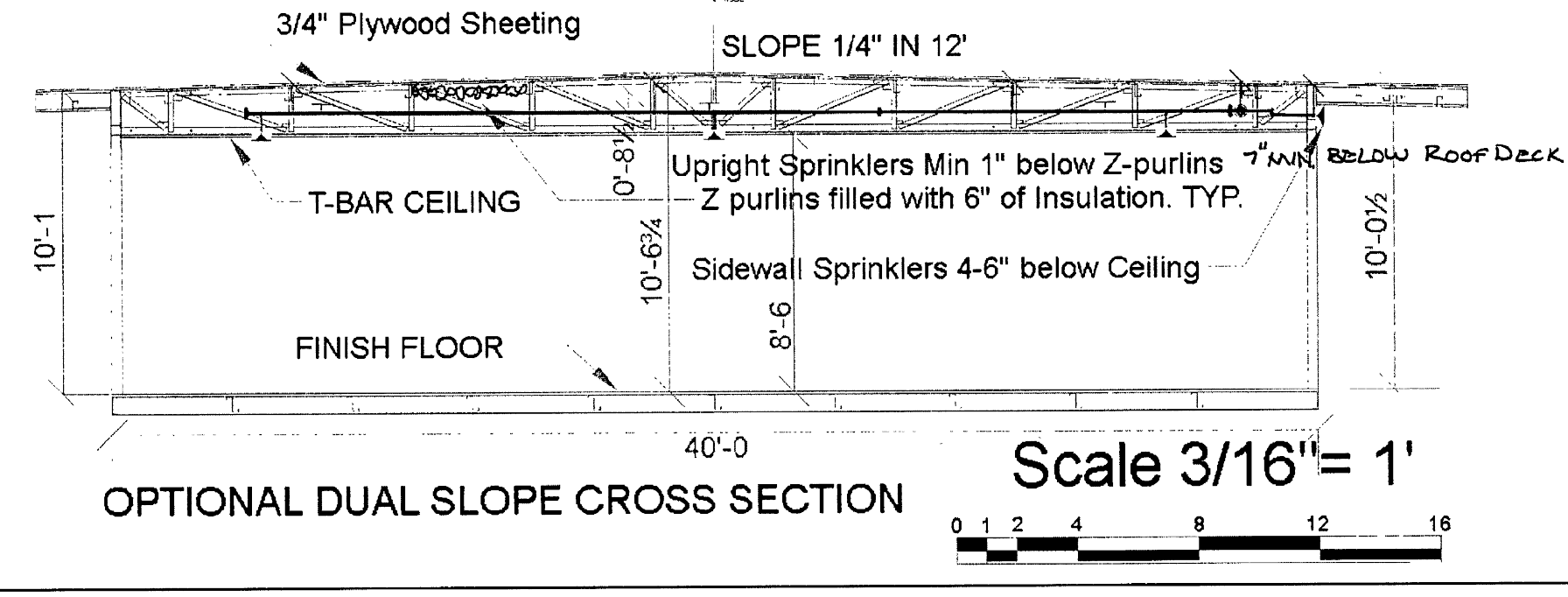
SHEET NUMBER:

FS 2

Riser Tag	
Design Basis	
Occupancy:Light Hazard	
Total Sprinklers:82	
Number Of Sprinklers Calculated:8	
K-Factor:5.6	
Orifice Size:0.5	
Design Density:0.100gpm/ft²	
Average Density:0.149gpm/ft²	
Area of Application:900.00ft² (Actual 916.22ft²)	
Demand at Base Of Riser or Point Of Connection	
Total Demand Flow(gpm):136.92	
Pressure(psi):40.373	
Water Supply Information At Time Of Design	
Static Pressure(psi):45.000	
Residual Pressure(psi):44.900	
Supply Flow(gpm):250.00	
Total Demand Flow(gpm):236.92	
Total Demand Pressure(psi):40.373	



Sprinkler Legend									
Symbol	Manufacturer	SIN/Model	Quantity	K-Factor	Type	Size	Response	Orifice	Finish
●	TYCO	TY323	35	5.6	Pendent	1/2	Quick	1/2"	Chrome
▲	TYCO	TY3331	10	5.6	Sidewall	1/2	Quick	1/2"	Teflon
○	TYCO	TY313	37	5.6	Upright	1/2	Quick	1/2"	Brass
			Total = 82						



Sway Brace # 4 Zone Legend Lateral					
Diameter	Description	Unit Quantity	Quantity	Unit Weight	Wp
2	Pipe, Dyna-Flow/Super Flo	(3)9'-11+(3)2'-0	35'-9	3.76lb	1.3
1	Pipe, Schedule 40	(2)0'-3 1/2+(2)0'-9 1/2+(2)1'-4 1/2	4'-11	2.05lb	1.3
1 1/4	Pipe, Schedule 40	(3)11'-8+(3)21'-0	98'-0	2.93lb	1.3
				Total Weight (x Wp)	560.97lb
				Total Load (Fp x 1.15)	645.11lb

Sway Brace #8 Zone Legend Longitudinal					
Diameter	Description	Unit Quantity	Quantity	Unit Weight	Wp
2	Pipe, Dyna-Flow/Super Flo	(3)9'-11+22'-6+5'-2 1/2+(3)2'-0	63'-5 1/2	3.76lb	1.3
				Total Weight (x Wp)	310.83lb
				Total Load (Fp x 1.15)	357.46lb

HYDRAULIC SYSTEM	
This building is protected by a Hydraulically Designed Automatic Sprinkler System	
Location	CLASSROOM ATTIC
Sprinkler Information	
NUMBER OF SPRINKLERS FLOWING	8
MANUFACTURER	TYCO
MODEL	TY 3131
1/55 UPRIGHT	QUICK RESPONSE
1/2" ORIFICE	K-FACTOR 5.6
Basis of Design	
STANDARD	NFPA 2013 EDITION
HAZARD GROUP	LIGHT HAZARD
DENSITY	0.1 GPM/SQ. FT.
DESIGNED AREA OF DISCHARGE	916 SQ. FT.
System Demand	
DESIGN AT THE	136.92 GPM
RESIDUAL PRESSURE AT THE	39.364 PSI
DESIGN SPRINKLER	136.92 GPM
DESIGN SUPPLY SOURCE	39.364 PSI
DESIGN PRESSURE AT THE	
WATER SUPPLY SOURCE	
HOSE STREAM ALLOWANCE	0 GPM INSIDE
	100 GPM OUTSIDE
	100 GPM TOTAL
REMOTE SPRINKLER FLOW	14.82 GPM @ 7 PSI

GENERAL OVERHEAD NOTES

All design and installation shall be in accordance with NFPA 13, 2013 Edition and local authority.

System is designed for Light Hazard occupancy @ 0.10 gpm/sq. ft. over the hydraulically most remote 900 sq. ft. including 100gpm outside hose stream allowance. Above ceiling heads are spaced @ maximum 168 sq. ft. due to the structure being in the category of "combustible obstruction" with joists spaced more than 3'-0" apart per NFPA 13, Table 8.6.2.2.1(a). Below ceiling sprinklers are @ maximum 225 sq. ft. spacing.

All pipe 1"-1 1/2" to be Sch 30 Dyna-Thread or Sch 40 and 175 lb. WWIP cast iron fittings (ANSI-B16.9). (Sch 40 used in Hydraulic Calculations.)

All pipe 2" and larger to be schedule 10 Dyna Flow with grooved coupling, and style #750 reducing coupling.

Propriety and central station monitoring to be provided by others.

All wiring to be provided by others.

Install earthquake bracing as shown per NFPA 13 using 1" schedule 40 piping to support all earthquake braces.

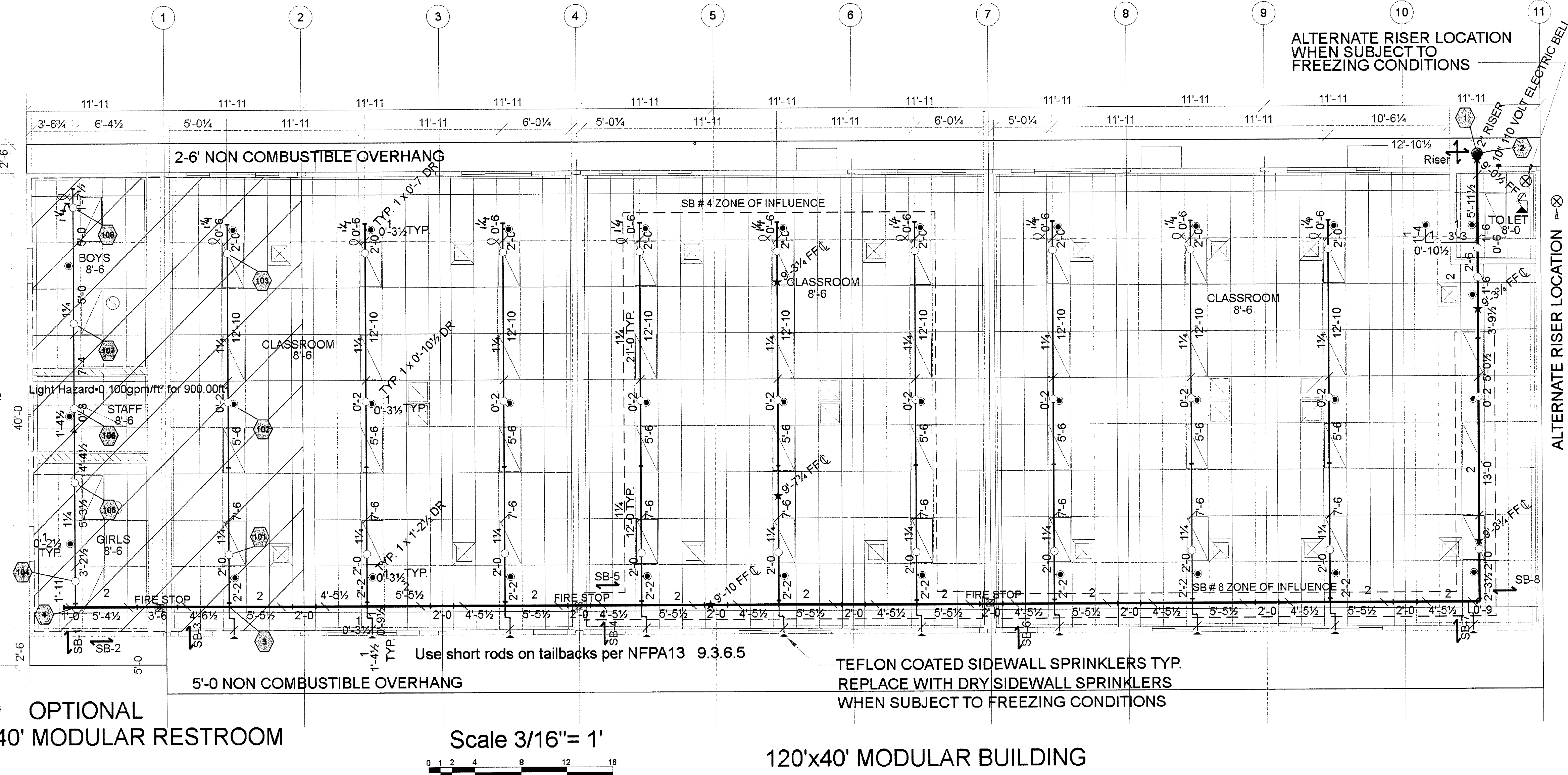
The length of an unsupported arm over to a sprinkler shall not exceed 24". 12" if subject to > 100 PSI static pressure.

All new systems including yard shall be hydraulically tested at not less than 200 psi (13.8 bars) pressure for two hours, or at 50 psi (3.4 bars) in excess of the maximum pressure, when maximum pressure is in excess of 150 psi.

Install surge protection at end of all branch lines.

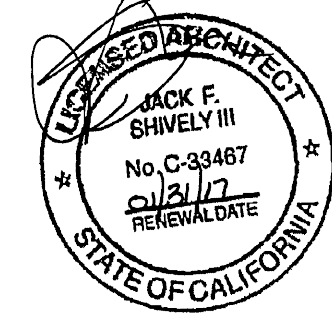
Attach splay wire to ends of branch lines. Splay wires not required where hangers are less than 6" from point of attachment to top of pipe. NFPA13 9.3.6.5

ALL WALLS ARE FULL HEIGHT UNLESS OTHERWISE NOTED
1-1/4" BRANCH LINES HOLD 2.56 GALLONS OF TRAPPED WATER EACH.
NO AXILLARY DRAINS REQUIRED



Building for the Next Generation
2380 Barret Avenue
Perris, CA 92571

ARCHITECT STAMP:



ENGINEER STAMP:

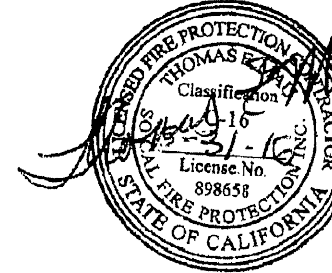


CONSULTANT:

So Cal Fire Inc.

14102 Holt Avenue
North Tustin, CA 92715
714 969 0230
C-16 # 898658

CONSULTANT STAMP:



PROJECT NAME:

40' PC Fire Sprinkler Plans

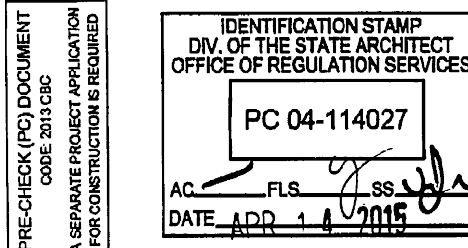
ISSUE DATES:
DESCRIPTION: 40' PC
DATE: 04/13/15

PROJECT NO: PC 1

DRAWN BY: Kris Michel

CHECKED BY:

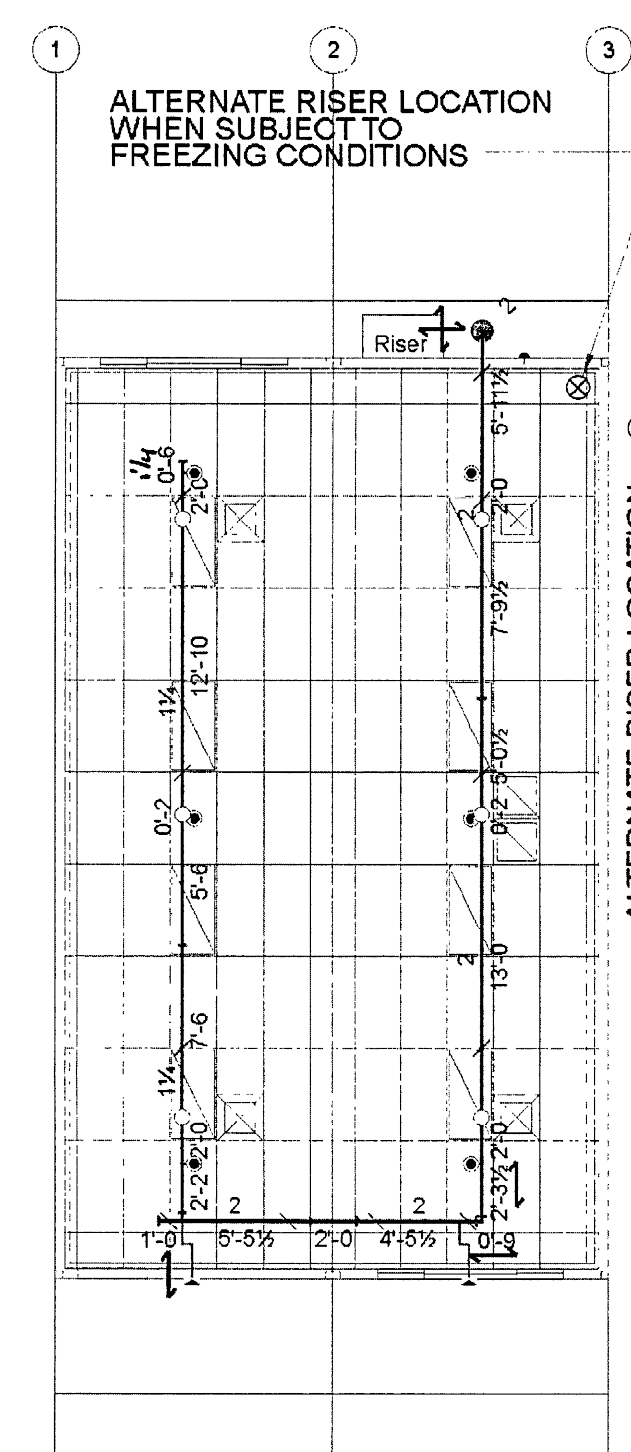
ORIGINAL PC STATE AGENCY APPROVAL



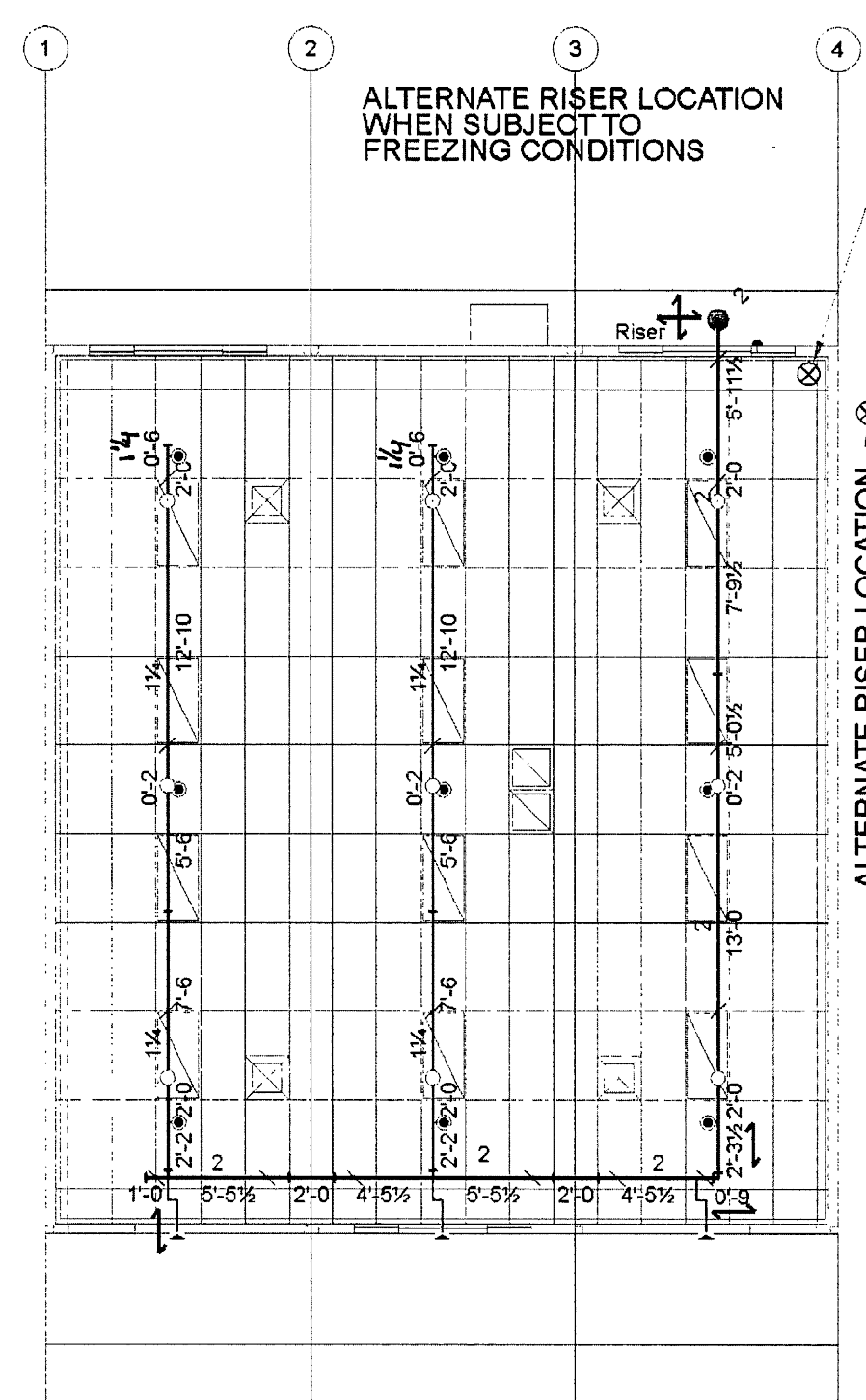
SHEET TITLE:
120 x 40+Left Bath

SHEET NUMBER:

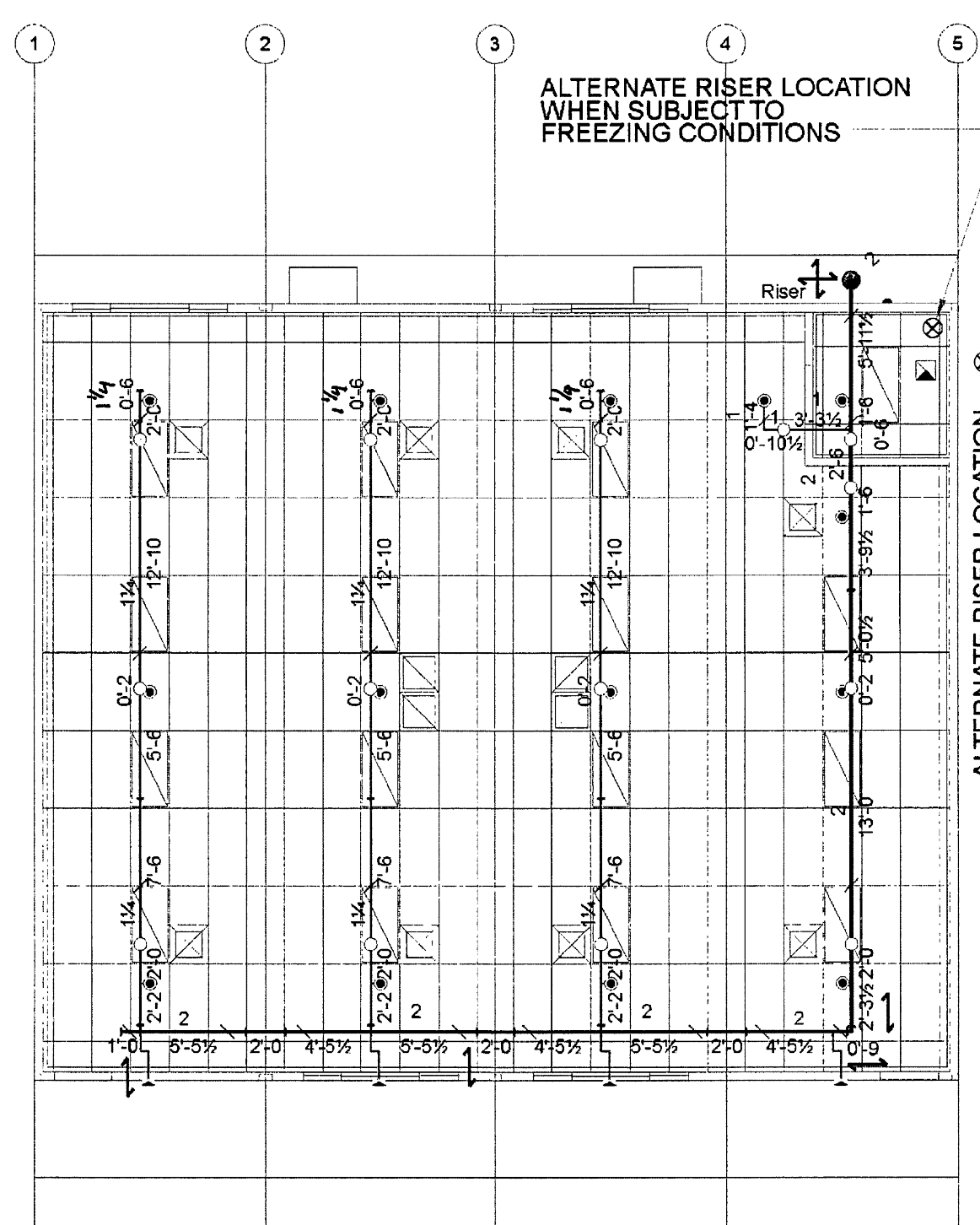
FS 3



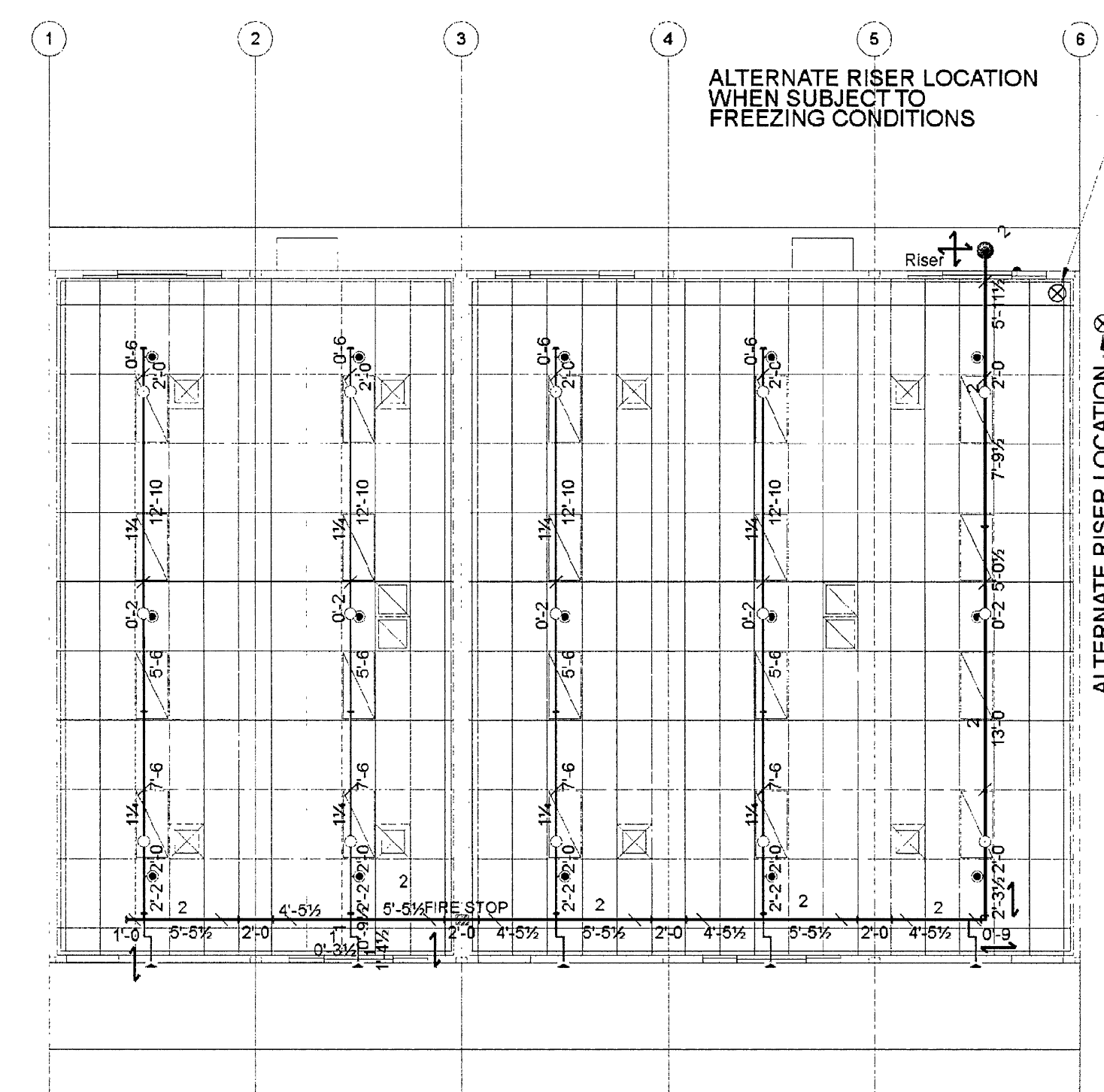
24'x40' MODULAR BUILDING
960 SQ. FT.



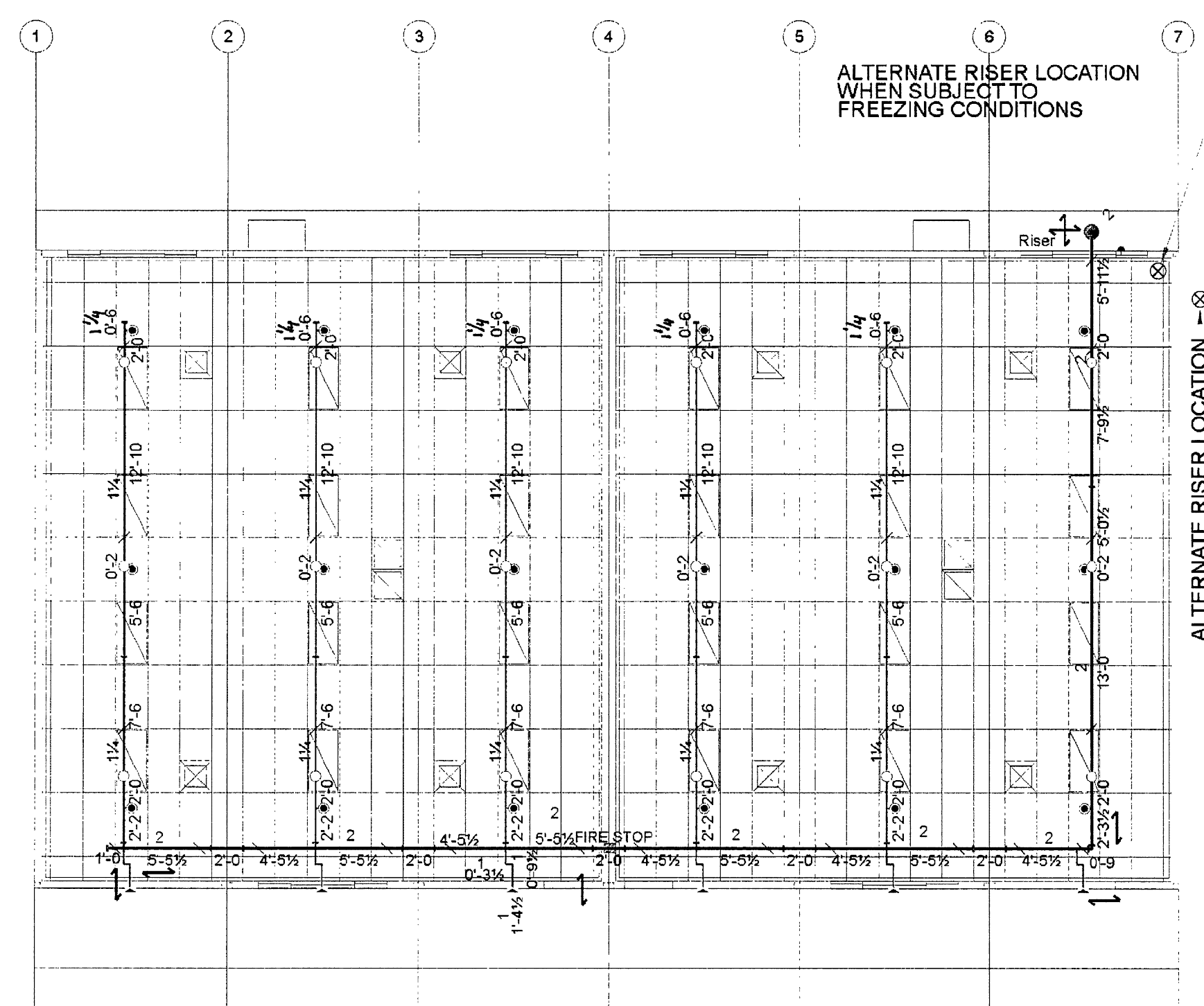
36'x40' MODULAR BUILDING
1440 SQ. FT.



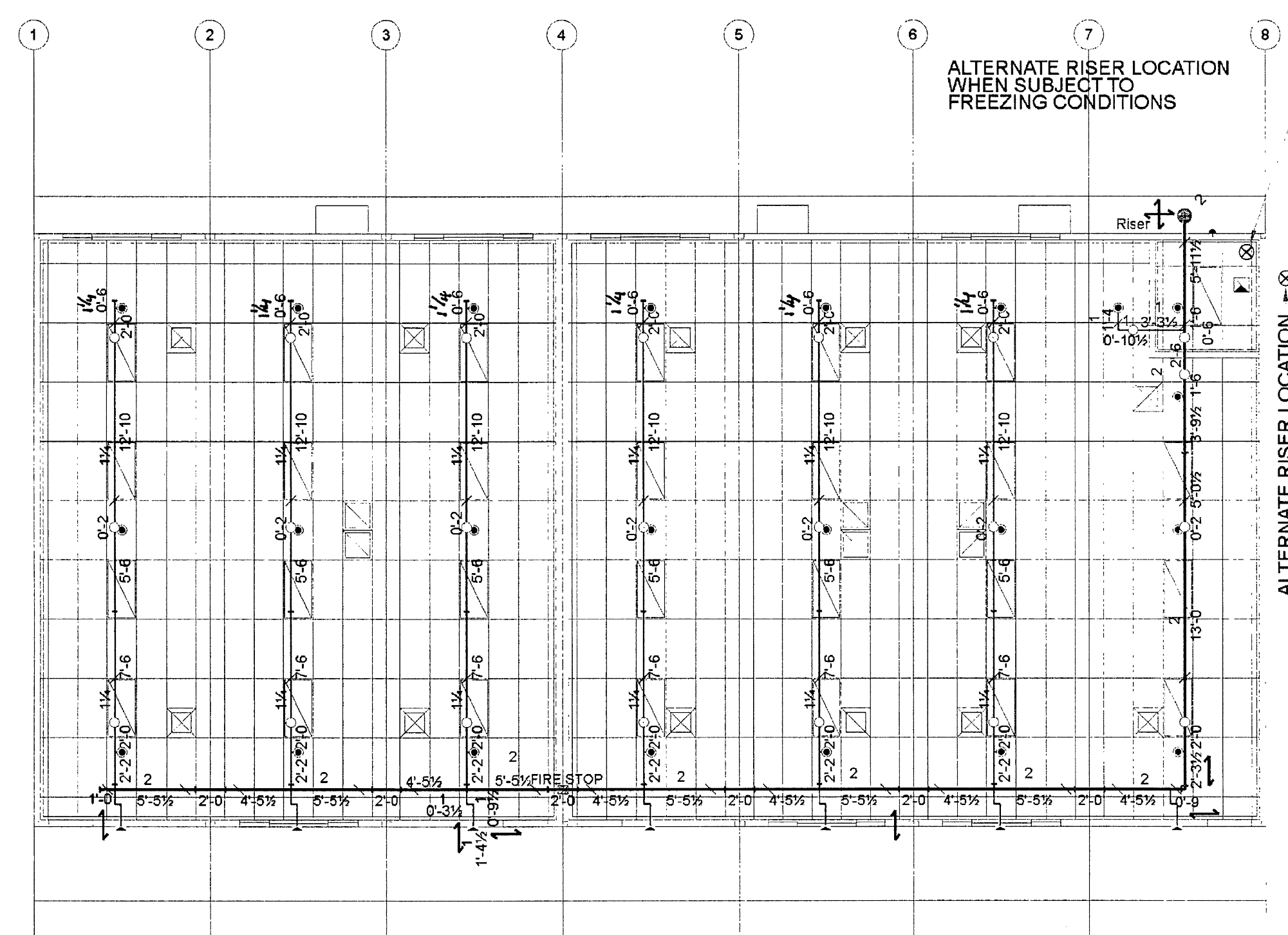
48'x40' MODULAR BUILDING
1920 SQ. FT.



60'x40' MODULAR BUILDING
2400 SQ. FT.



72'x40' MODULAR BUILDING
2880 SQ. FT.



84'x40' MODULAR BUILDING
3360 SQ. FT.

Scale 1/8" = 1'

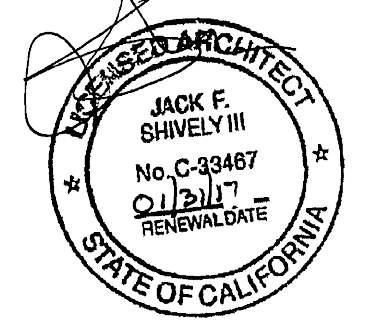
THIS SHEET SHOWS THE VARIOUS SIZE BUILDINGS
FOR THE PURPOSE OF SHOWING THE LOCATION AND
PLACEMENT OF SWAY BRACES FOR EACH ONE
INDIVIDUALLY.

SEE REFERENCE SHEETS FS-2 AND FS-3 FOR COMPLETE FIRE SPRINKLER SYSTEM DESIGN,
SIZING AND HYDRAULIC CALCULATIONS INFORMATION WHICH IS APPLICABLE TO EACH OF
THESE BUILDING SIZES.



2380 Barret Avenue
Perris, CA 92571

ARCHITECT STAMP:



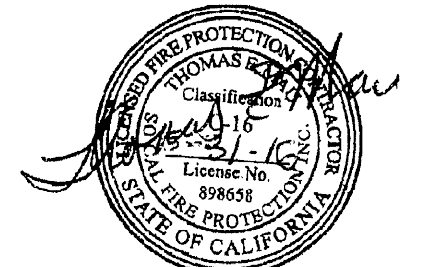
ENGINEER STAMP:



CONSULTANT:

So Cal Fire Inc.
14102 Holt Avenue
North Tustin, CA 92715
714 369 0230
C-16 # 898658

CONSULTANT STAMP:



PROJECT NAME:

40' PC Fire Sprinkler Plans

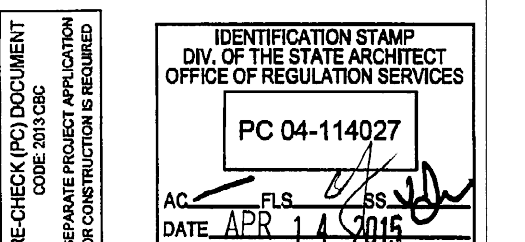
ISSUE DATES:
DESCRIPTION: Mod Group 1
DATE: 04/05/15

PROJECT NO: PC 1

DRAWN BY: Kris Michel

CHECKED BY:

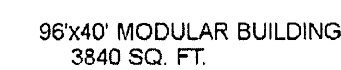
ORIGINAL PC STATE AGENCY APPROVAL



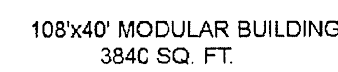
SHEET TITLE:
40' x24'-84'

SHEET NUMBER:

FS 4



Scale 1/8" = 1'



Fire Stop Detail

Hilti FS 1 Fire Caulk
Min. 1/2" Bead on pipe
Hilti System # WL-1054

Steel Pipe

Gyp. Board

Metal Stud Wall

Hanger Detail

Side Beam Bracket
ToCo Fig. 58

(2) 1/4" Tec Screws

3/8" All Thread Rod

Swivel Ring
ToCo Fig. 280R

Z Purlin

3"

1/8"

1" to 1 1/2" Dia.
N/A

Symbol =

Riser Detail

10" Electric Bell
Connect to Fire Alarm System
Wiring by others

Spare Head Box
3 Sprinklers Each Type
1 Wrench each Tool

Riser and General Information Tag

1" Test and Drain w/ Pressure Relief Valve

So Cal Fire Inc.
Point of Connection

Finish Floor

Underground work by others

Thrust Block

2" Flexible Coupling
Less than 2'-0" form top of riser

Three Way Valve w/ Gauge

2" Flow Switch
Connect to Fire Alarm System
Wiring by others

2" Control Valve w/ Tamper Switch

2" Flexible Coupling
Less than 2'-0" AFF

2" Annular space at Slab Penetration

9'-0" 1/2"

0'-6"

Riser Brace

1. ROOF PURLIN

NOTE:
Show design of bracing system for options 2 & 3 only.

Cx2x14 GA BLOCKING,
ONE ON EACH SIDE OF
LATERAL BRACING
BRACE

WENT PLATE 3/8"x3/4" LG
ATTACH TO BLOCKING AND
ROOF PURLIN WITH
(2) #14 B7S

Blocking is used to prevent racking
of column during erection
and during wind.

DETAIL A, SWAY
BRACE BLOCKING.

[illegible]

Seismic Design Calculations			
Project Name: <input type="text"/>		Location City: <input type="text"/> State: <input type="text"/> Zip: <input type="text"/>	
Client Name: <input type="text"/>		Design Office Name: <input type="text"/>	
Project Address Address: <input type="text"/>		Project Description Description: <input type="text"/>	
Design Date Date: <input type="text"/>		Design Engineer Name: <input type="text"/>	
Design Review Name: <input type="text"/>		Design Check Name: <input type="text"/>	
Design Status Status: <input type="text"/>		Design Notes Notes: <input type="text"/>	
Design Details Details: <input type="text"/>		Design Calculations Calculations: <input type="text"/>	
Design Results Results: <input type="text"/>		Design Summary Summary: <input type="text"/>	
Design Comments Comments: <input type="text"/>		Design Approval Approval: <input type="text"/>	
Design Signature Signature: <input type="text"/>		Design Stamp Stamp: <input type="text"/>	
Design Date Date: <input type="text"/>		Design Time Time: <input type="text"/>	
Design Location Location: <input type="text"/>		Design Project Project: <input type="text"/>	
Design Client Client: <input type="text"/>		Design Office Office: <input type="text"/>	
Design Address Address: <input type="text"/>		Design City City: <input type="text"/>	
Design State State: <input type="text"/>		Design Zip Zip: <input type="text"/>	
Design Name Name: <input type="text"/>		Design Title Title: <input type="text"/>	
Design Email Email: <input type="text"/>		Design Phone Phone: <input type="text"/>	
Design Fax Fax: <input type="text"/>		Design Mobile Mobile: <input type="text"/>	
Design Website Website: <input type="text"/>		Design Social Social: <input type="text"/>	
Design Other Other: <input type="text"/>		Design Total Total: <input type="text"/>	
Design Grand Total Grand Total: <input type="text"/>		Design Grand Total Grand Total: <input type="text"/>	

Seismic Bearing Calculations			
Wt (kN)	447.00	Center of Gravity	1.0000
Y (mm)	100.00	Radius	4.0000
Z (mm)	100.00	Area	4.0000
Y-bar (mm)	0.0000	Perimeter	12.5664
Z-bar (mm)	0.0000	Area Moment of Inertia	12.5664
Y-bar ² (mm ²)	0.0000	Area Moment of Inertia	12.5664
Z-bar ² (mm ²)	0.0000	Area Moment of Inertia	12.5664
Y-bar ³ (mm ³)	0.0000	Area Moment of Inertia	12.5664
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