

BLANDFORD ES KITCHEN MODERNIZATION
for ROWLAND UNIFIED SCHOOL DISTRICT

CO-AR PROJECT NO. : 202310
PTN : 73452-192
DSA A# 03-124069

GENERAL ABBREVIATIONS AND SYMBOLS APPLICABLE CODES GENERAL NOTES SCOPE OF WORK SHEET INDEX

Table with 3 columns: Abbreviation, Description, and Symbol. Includes terms like AND, ANGLE, AT, CENTERLINE, DIAMETER OR ROUND, PERPENDICULAR, etc.

Table with 2 columns: Code Reference and Description. Includes California Building Standards Administrative Code, California Building Code (CBC), California Electrical Code (CEC), etc.

1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE AND EXTENT OF THE WORK. HE SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS...

Table titled 'BUILDING DATA' with columns for (E) MULTI-PURPOSE BLDG. 'MP', Construction Type, Height and Story, Building Area, and Project Area (Kitchen).

- 1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT.
3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT...

ENERGY CODE SECTION 10-103

The California Energy Code Section 10-103 requires Acceptance Testing on all newly installed lighting controls, mechanical systems, envelopes, and process equipment after installation and before project completion. An Acceptance Test is a functional performance test to help ensure that newly installed equipment is operating and in compliance with the Energy Code.

VICINITY MAP

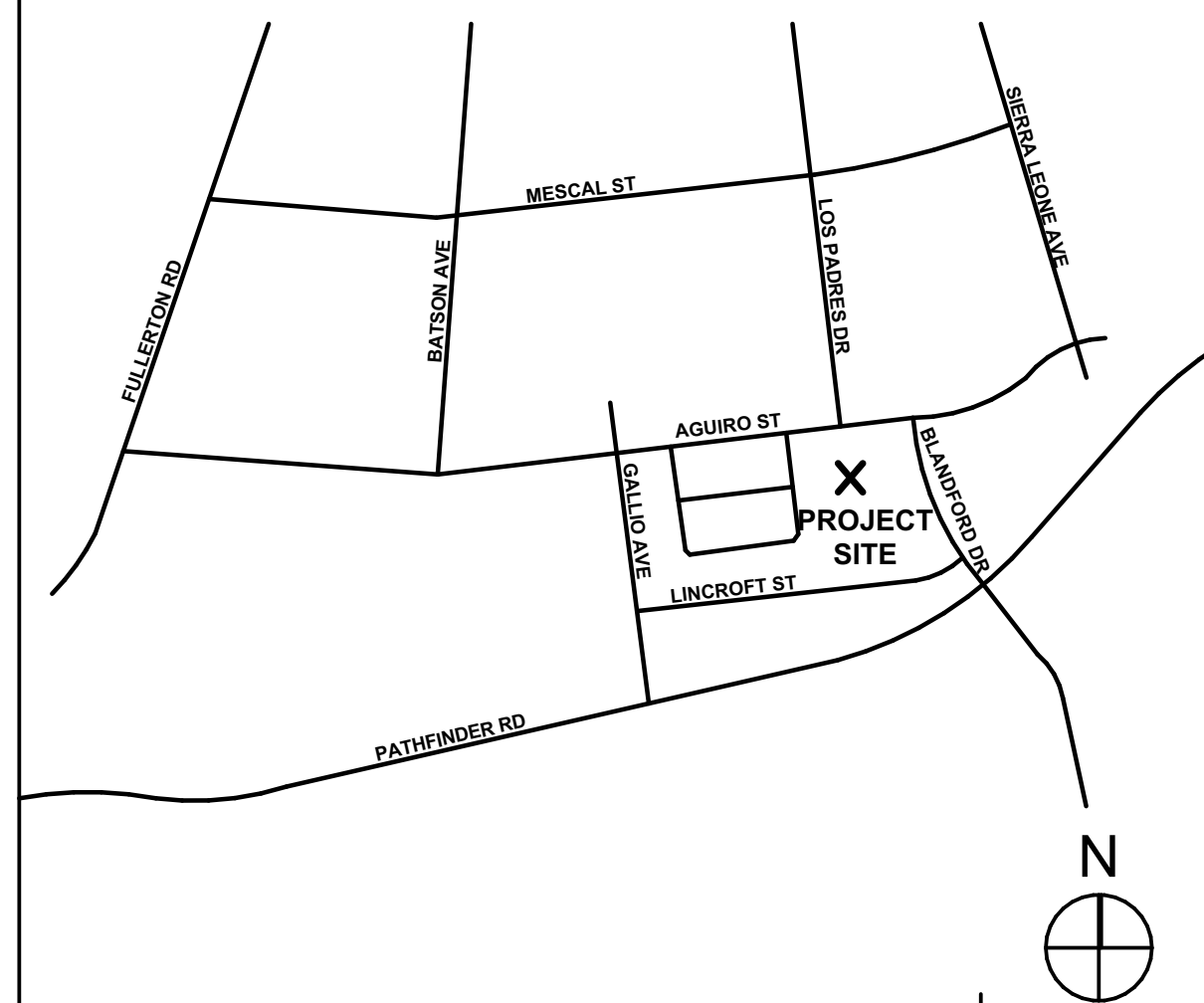


Table titled 'SHEET INDEX' listing architectural, structure, mechanical, plumbing, and electrical sheets (A-0.1 to FA-1.1) and their descriptions.

WORK EXEMPT FROM DSA REQUIREMENTS FOR STRUCTURAL TESTS / SPECIAL INSPECTIONS

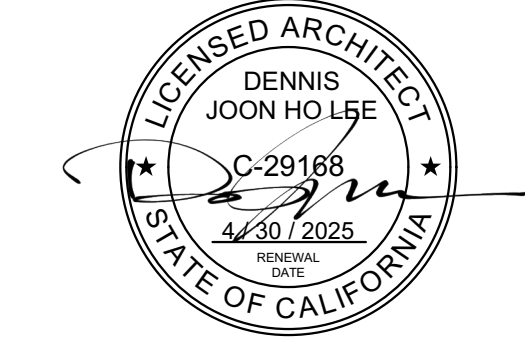
- 1. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

DEFERRED SUBMITTALS

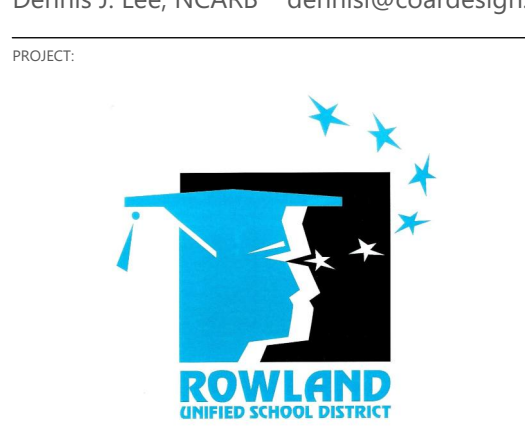
NO DEFERRED SUBMITTALS.

STATEMENT OF GENERAL CONFORMANCE

Form for Statement of General Conformance, including fields for project name, date, signature, and expiration date. Includes a checklist for conformance with project design intent and specifications.



CO-AR DESIGN, INC.
680 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186



BLANDFORD ES KITCHEN MODERNIZATION
2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

Table with columns for Project No., Scale, Date, Drawn By, Checked By, Sheet Title, and Sheet No. Includes a large 'A-0.1' label.

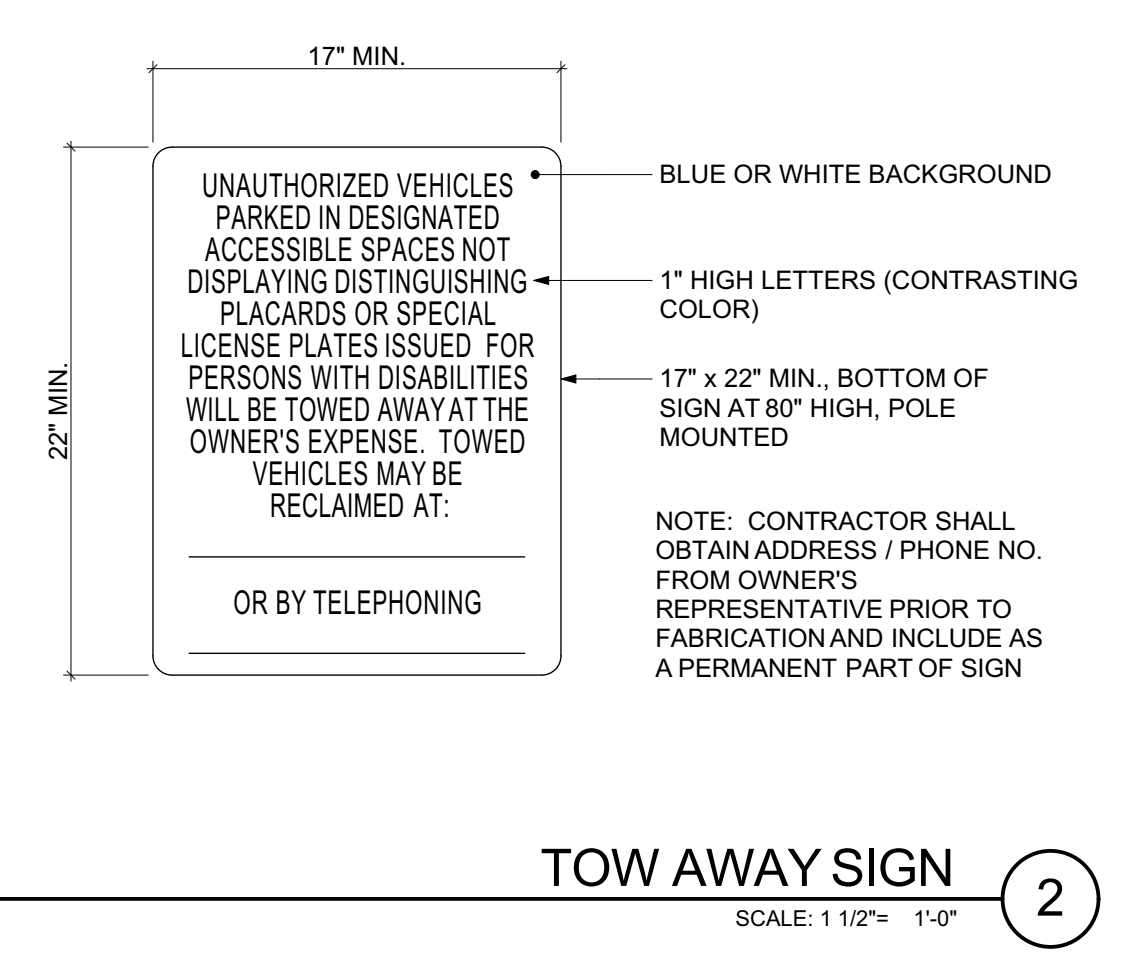
- KEY NOTES** (FOR THIS SHEET ONLY U.N.O.)
- (E) CHAIN LINK FENCE
 - (E) CHAIN LINK FENCE GATE
 - (E) CHAIN LINK SLIDING GATE
 - (E) METAL FENCE
 - (E) METAL FENCE SLIDING GATE
 - PROPERTY LINE

- LEGEND** (FOR THIS SHEET ONLY U.N.O.)
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/4" 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". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
 - SAFE DISPERSAL AREA
 - PATH OF EXIT DISCHARGE

DSA A# CERTIFICATION

MULTI-PURPOSE BUILDING "MP"

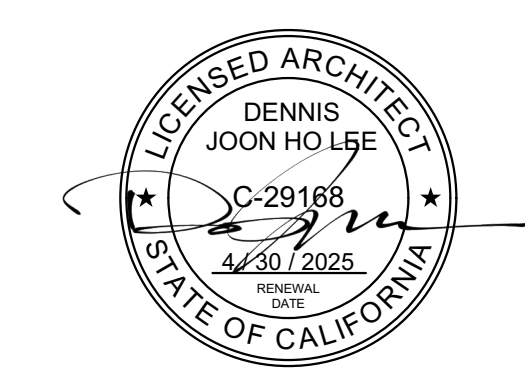
A# 03-106514	CLOSED W/ CERTIFICATION	10/8/2009
A# 03-114852	CLOSED W/ CERTIFICATION	3/8/2017



DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE 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 NON-COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) 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 NON-COMPLIANT 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 SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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



ARCHITECT:
CO-AR DESIGN, INC.
650 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186
Dennis J. Lee, NCARB dennis@coar-design.com



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2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748
CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTAL RESPONSES:

1. SCHEMATIC DESIGN	9/19/2023
2. DESIGN DEVELOPMENT	12/4/2023
3. DSA PROGRESS UPLOAD	1/20/2024
4. DSA SUBMITTAL	3/4/2024
5. DSA SUBMITTAL V2	4/2/2024

PROJECT NO: 202310
SCALE: AS SHOWN
DATE: 4/2/2024
DRAWN BY: ED / LC
CHECKED BY: DL

SITE PLAN

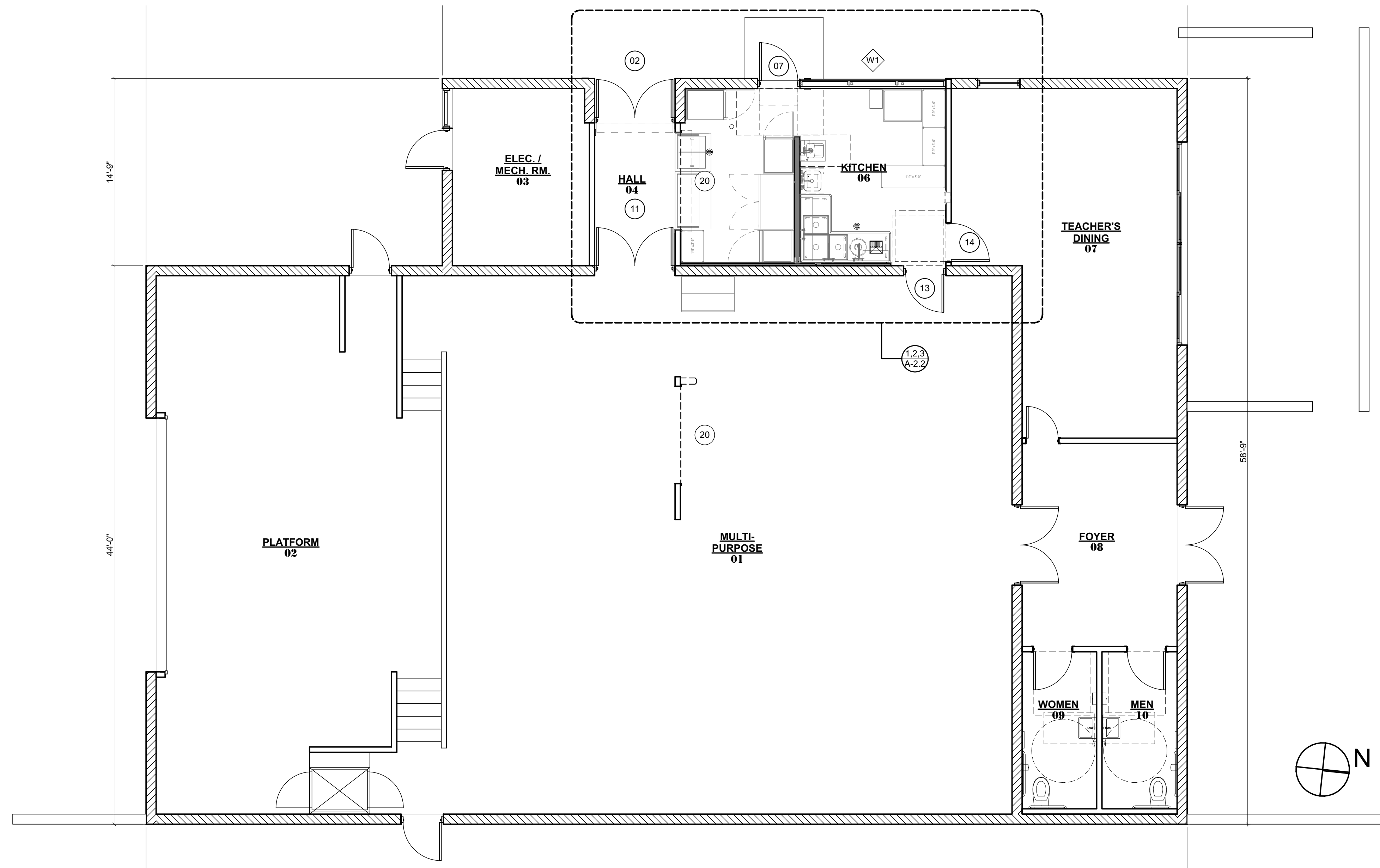
SHEET NO:

A-1.1

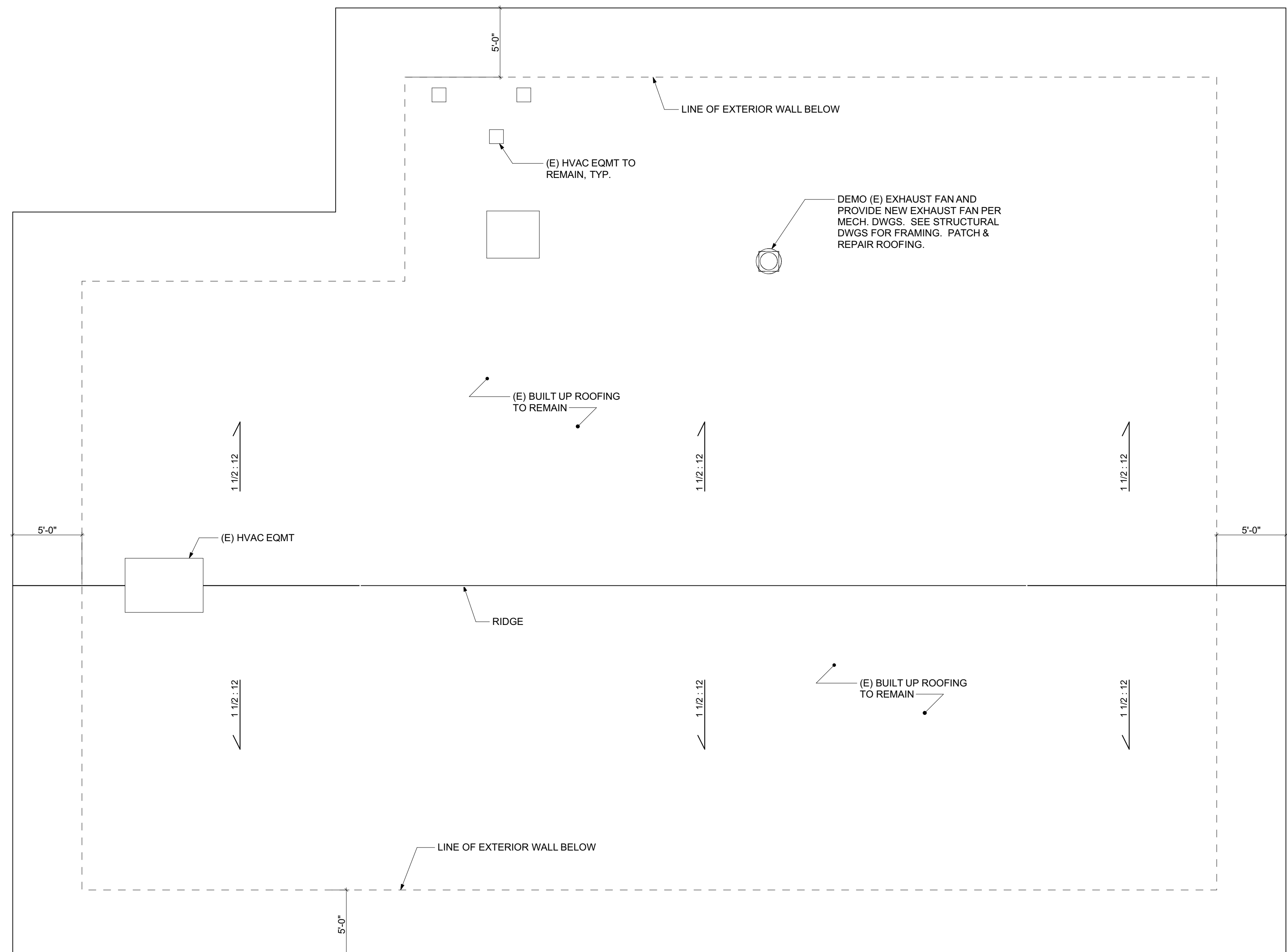
B:\Projects\2023\BLANDFORD ES\20231015_BLDG\BlandfordKitchen_Mod_Turquoise_Apr 2, 2024_2:54 PM

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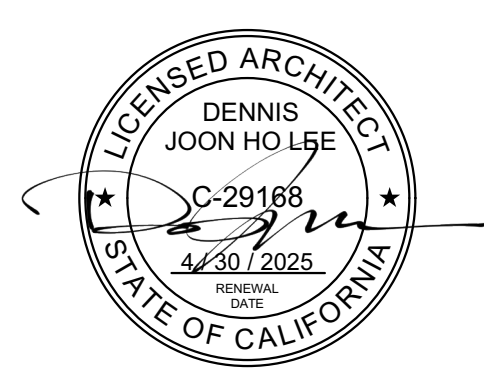
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PROPOSED FLOOR PLAN 1
 SCALE: 3/16" = 1'-0"



ROOF PLAN 2
 SCALE: 3/16" = 1'-0"



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 ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
 1830 NOGALES STREET
 ROWLAND HEIGHTS, CA 91748

SUBMITTAL REVISIONS	
1	SCHEMATIC DESIGN 9/18/2023
2	DESIGN DEVELOPMENT 12/6/2023
3	DSA PROGRESS UPLOAD 1/20/2024
4	DSA SUBMITTAL 3/4/2024
5	DSA SUBMITTAL V2 4/2/2024

PROJECT NO: 202310
 SCALE: AS SHOWN
 DATE: 4/2/2024
 DRAWN BY: ED / LC
 CHECKED BY: DL

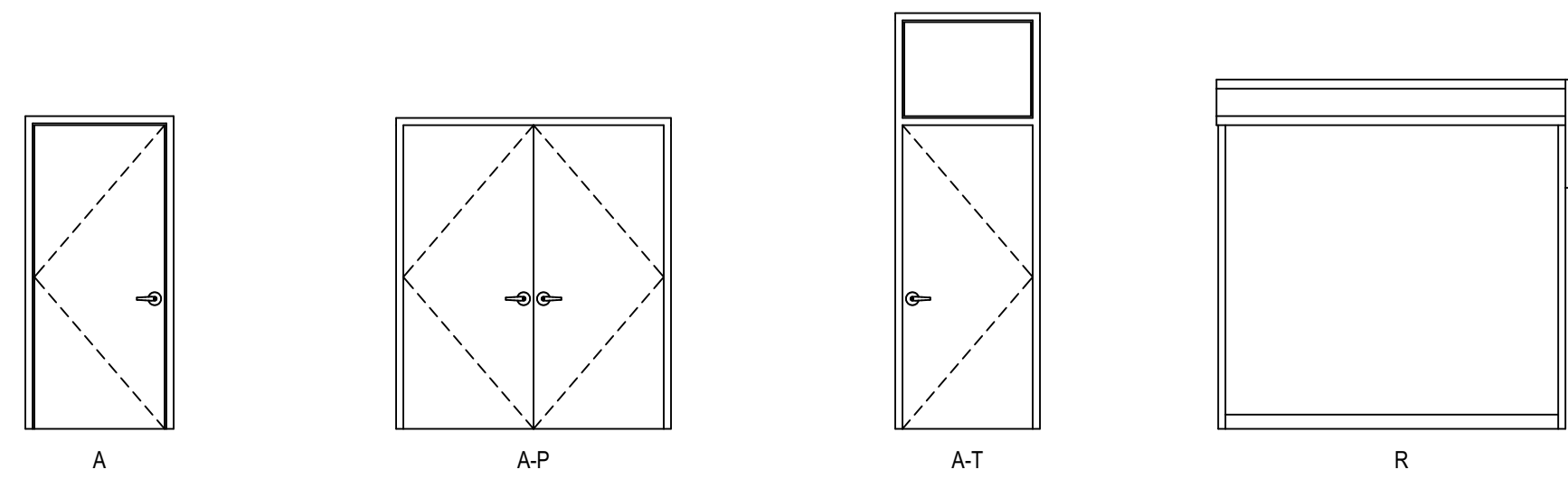
BUILDING MP PLAN

SHEET NO:

B:\Archives\COAR\COAR-23 - Blandford ES\Architect\27\030310-BLND Blandford ES Kitchen Mod_Tuesday, April 2, 2024, 2:54 PM

DOOR SCHEDULE															
NO.	NEW / EX	TYPE	W	H	THK	DOOR			FRAME			REMARKS			
						MAT	FINISH	GLAZ	MAT	FINISH	HEAD		JAMB	SILL	
02	Existing	A-P	6'-0"	7'-0"	1 3/4"	WD	PTD	-	HM	PTD	(E)	(E)			
07	New	A-T	3'-0"	7'-0"	1 3/4"	HM	PTD	CGL-T	HM	PTD	4/A-5.1	5.9/A-5.1	11/A-5.1	01	SEE 1/A-3.1 FOR MORE INFORMATION
11	Existing	A-P	6'-0"	7'-0"	1 3/4"	WD	PTD	-	WD	PTD	(E)	(E)	(E)		
13	Existing	A	3'-0"	7'-0"	1 3/4"	WD	PTD	-	WD	PTD	(E)	(E)	(E)		
14	Existing	A	3'-0"	7'-0"	1 3/4"	WD	PTD	-	WD	PTD	(E)	(E)	(E)		
20	New	R	7'-9"	7'-0"	0.30"	STL	PTD	-	STL	PTD	14/A-5.1	13/A-5.1	-	02	

DOOR TYPES

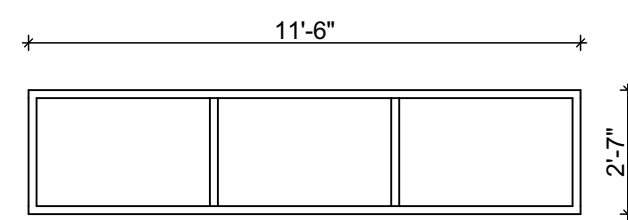


HOLLOW METAL DOOR AND FRAME

3'-0" x 7'-0" 18 GA. HONEYCOMB CORE. GALVANIZED SEAMLESS WELDED EDGE. CAPPED FLUSH TOP 4 CHANNEL CONSTRUCTION TO MINIMIZE THERMAL BOW CONDITIONS. 14 GA. FRAME WITH REINFORCEMENT FOR CONTINUOUS HINGE AND DOOR CLOSER.

WINDOW SCHEDULE															
NO.	NEW / EX	OPERATION	WIDTH	HEIGHT	SILL HEIGHT	AREA	QTY	GLAZING		FRAME		REMARKS			
								THK	TYPE	MAT	FINISH		HEAD	JAMB	SILL
W1	New	FIXED	11'-6"	2'-7"	7'-0"	30	1	1"	CGL-T	ALUM	ANOD	7/A-5.1	2, 10/A-5.1	8/A-5.1	SEE 1/A-3.1 FOR MORE INFO.

WINDOW TYPES



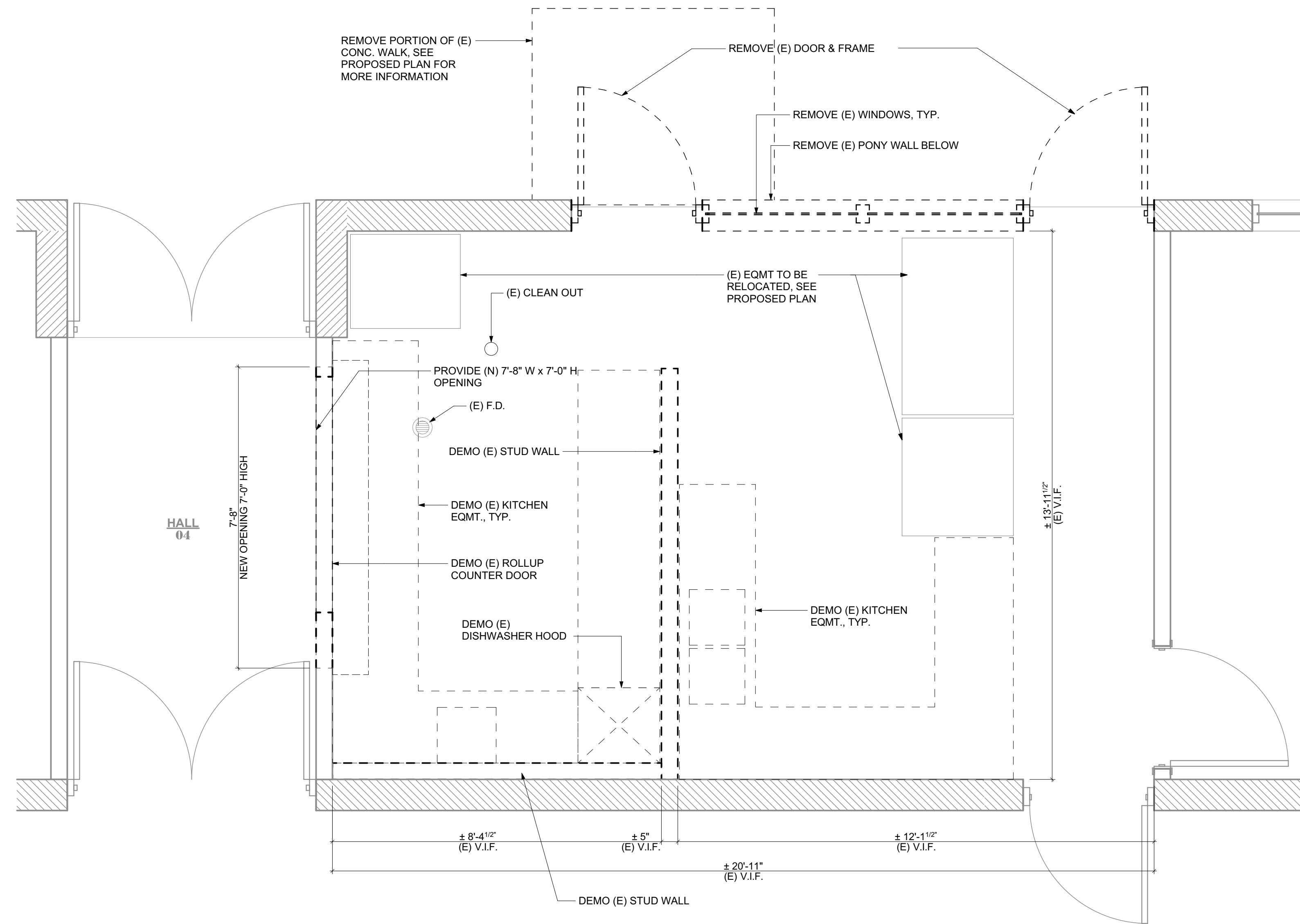
DOOR HARDWARE GROUPS

- 01 DOOR # 07**
- 1 EA MARKAR FM300 WEP 630 HINGE
 - 1 EA MARKAR FM300 WEP X WT 630 HINGE
 - 1 EA L9080 06A 626 LESS OUTSIDE TRIM
 - 1 EA IVES V9990 630
 - 1 EA SCHLAGE 30-137 626 MORTISE HOUSING
 - 1 EA SCHLAGE 23-030 E KVV 626 CORE
 - 1 EA LCN 4040 E2A 699 CLOSER (INSTALL DOOR CLOSER ON PUSH SIDE TO SWING 180)
 - 1 EA PEMKO SWEEP 15061 CNB 36"
 - 1 EA PEMKO THRESHOLD 176 AL 36"
 - 1 EA PEMKO DOOR SEAL 2891 APK 3684
 - 1 EA TRIMCO 1209 HO DOOR STOP

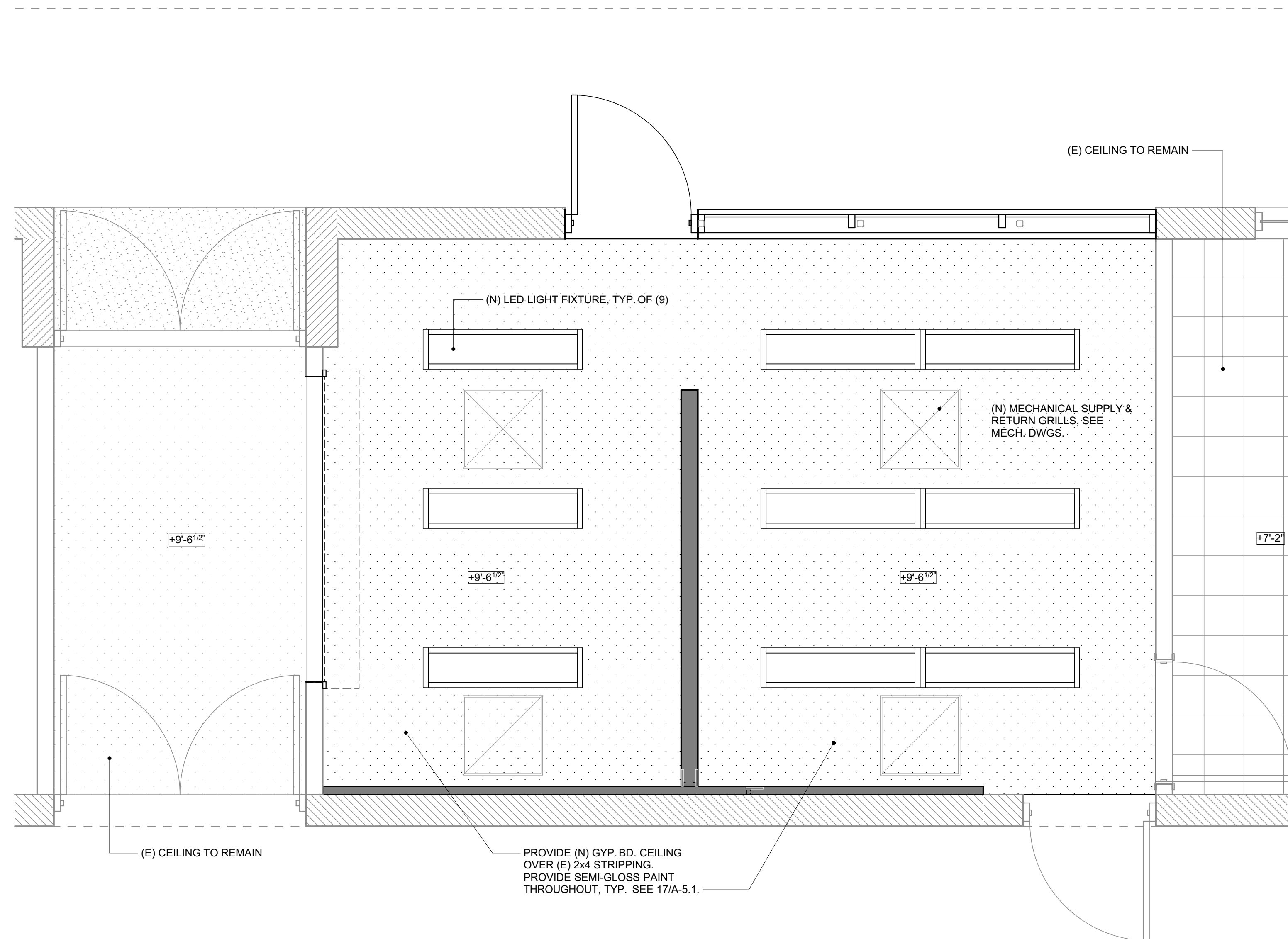
- 02 ROLL UP DOOR # 20**
- HARDWARE PER MANUFACTURER

DOOR & WINDOW ABBREVIATIONS:

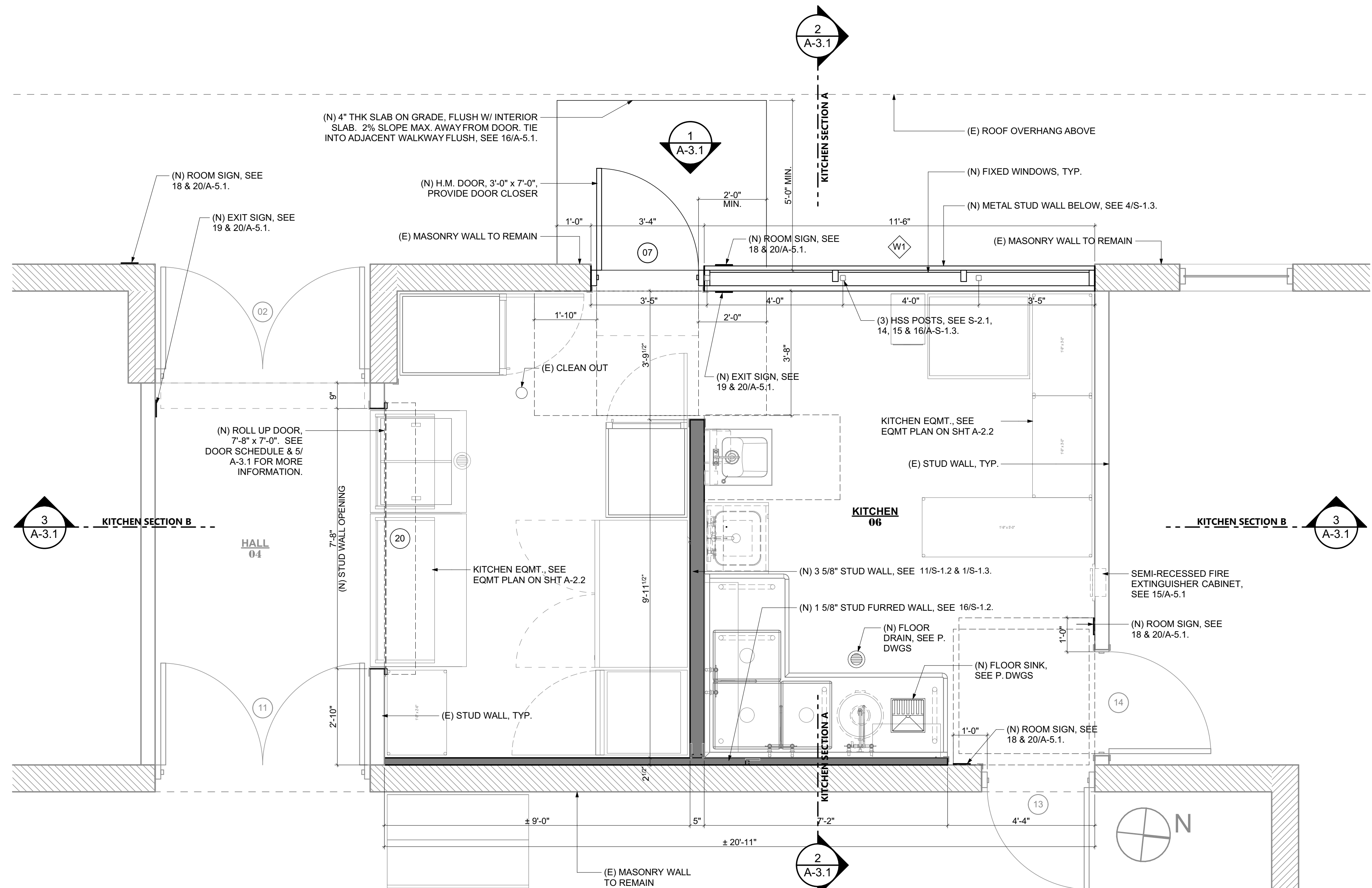
- MATERIAL / FINISHES:**
- ALUM ALUMINUM
 - ANOD ANODIZED
 - B.ANOD BRONZE ANODIZED
 - C.ANOD CLEAR ANODIZED
 - GL GLASS
 - HC HOLLOW CORE
 - HDWD HARDWOOD
 - HM HOLLOW METAL
 - FF FACTORY FINISH
 - FOAM FOAM CORE
 - MTL METAL
 - PCC POLYMER CELL CORE
 - P.LAM PLASTIC LAMINATE
 - P.MTL PRESSED METAL
 - P.NICK POLISHED NICKEL
 - PTD PAINTED
 - S.ANOD SATIN ANODIZED
 - SCG SOLID CORE
 - SGPT SEMI-GLOSS PAINT
 - S.S. STAINLESS STEEL
 - STL STEEL
 - STN STAIN
 - WD WOOD
- GLAZING TYPE:**
- CGL CLEAR GLASS
 - OGL OBSCURE GLASS
 - TGL TINTED GLASS
 - N INSULATED, DOUBLE PANE
 - T TEMPERED
- GLAZING TO PROVIDE APPROX. 65% VLT AND SHGC OF 0.50, U.N.O.
- GENERAL:**
- (E) EXISTING TO REMAIN



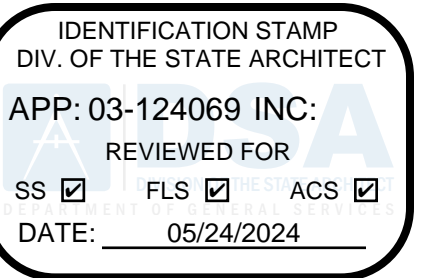
EXISTING / DEMOLITION PLAN 1
SCALE: 1/2" = 1'-0"



REFLECTED CEILING PLAN 3
SCALE: 1/2" = 1'-0"



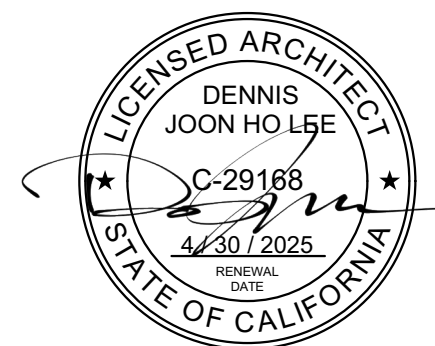
ENLARGED FLOOR PLAN 2
SCALE: 1/2" = 1'-0"



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ARCHITECT:

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6503 Brea Canyon Road, Suite 178
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Dennis J. Lee, NCARB dennis@coar-design.com



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ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
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REVISION	DATE
1. SCHEMATIC DESIGN	9/19/2023
2. DESIGN DEVELOPMENT	12/4/2023
3. DSA PROGRESS UPLOAD	1/20/2024
4. DSA SUBMITTAL	3/4/2024
5. DSA SUBMITTAL V2	4/2/2024

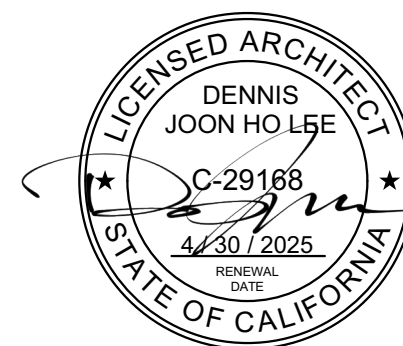
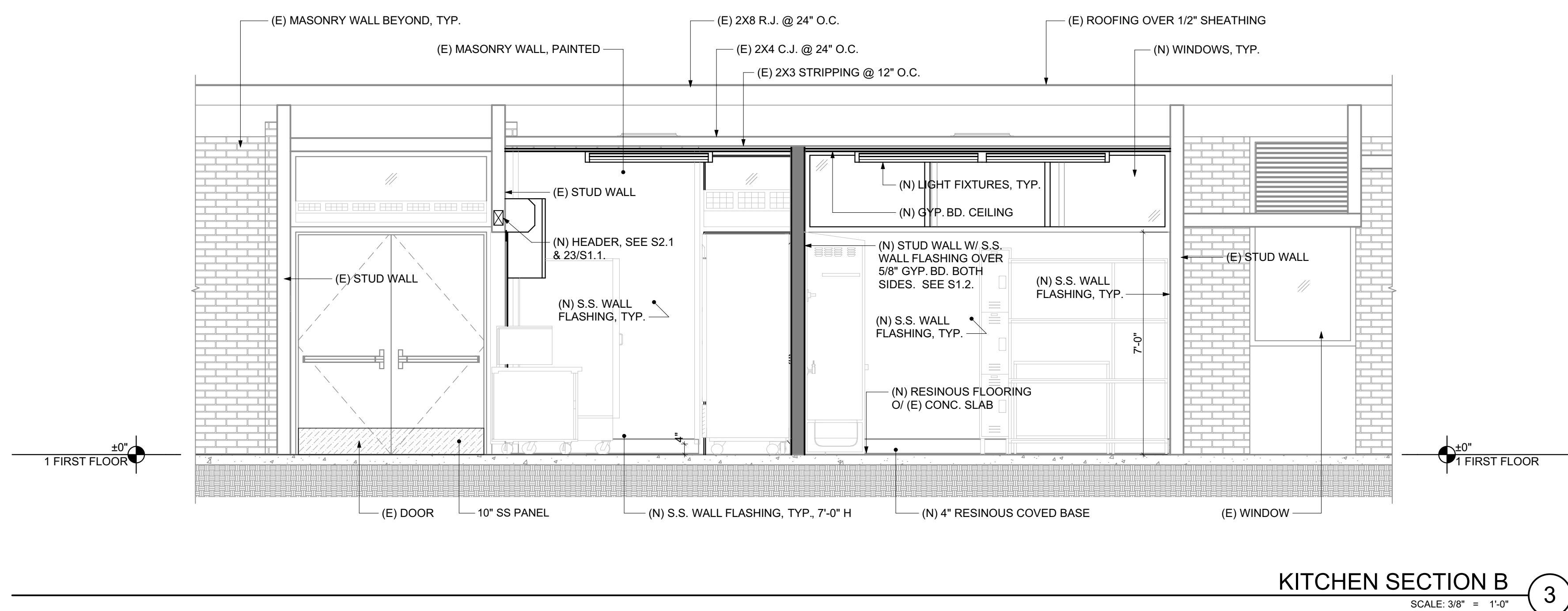
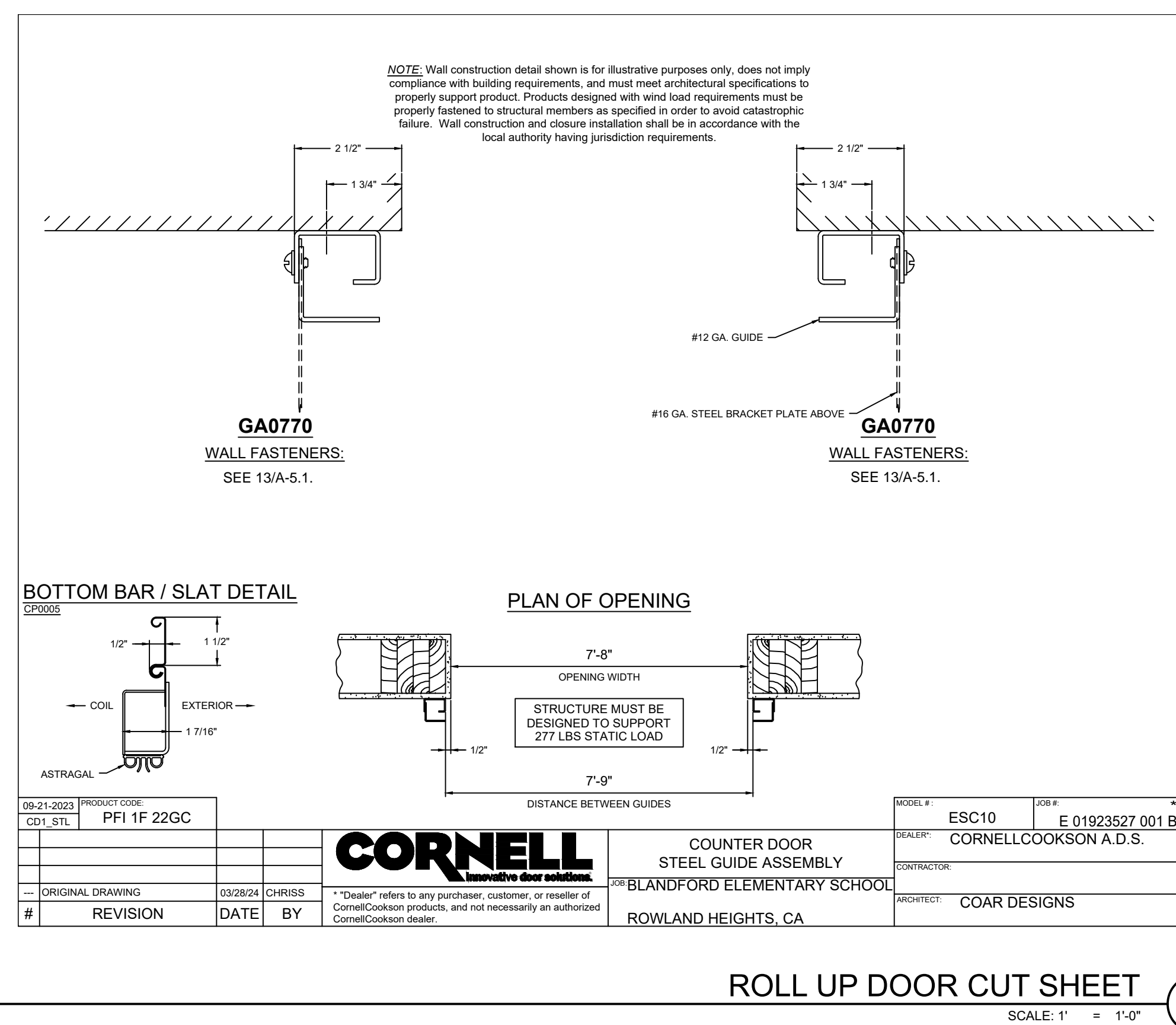
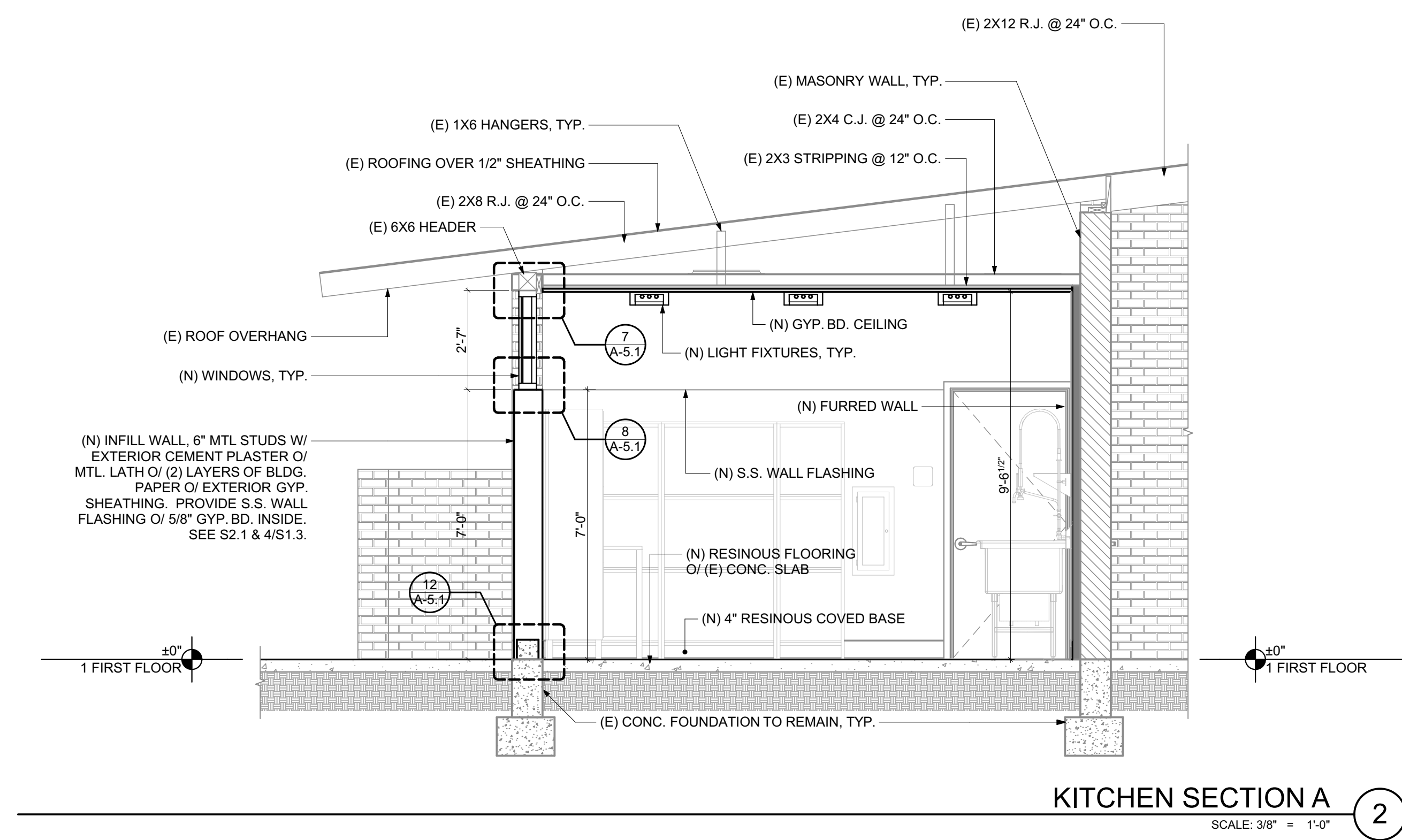
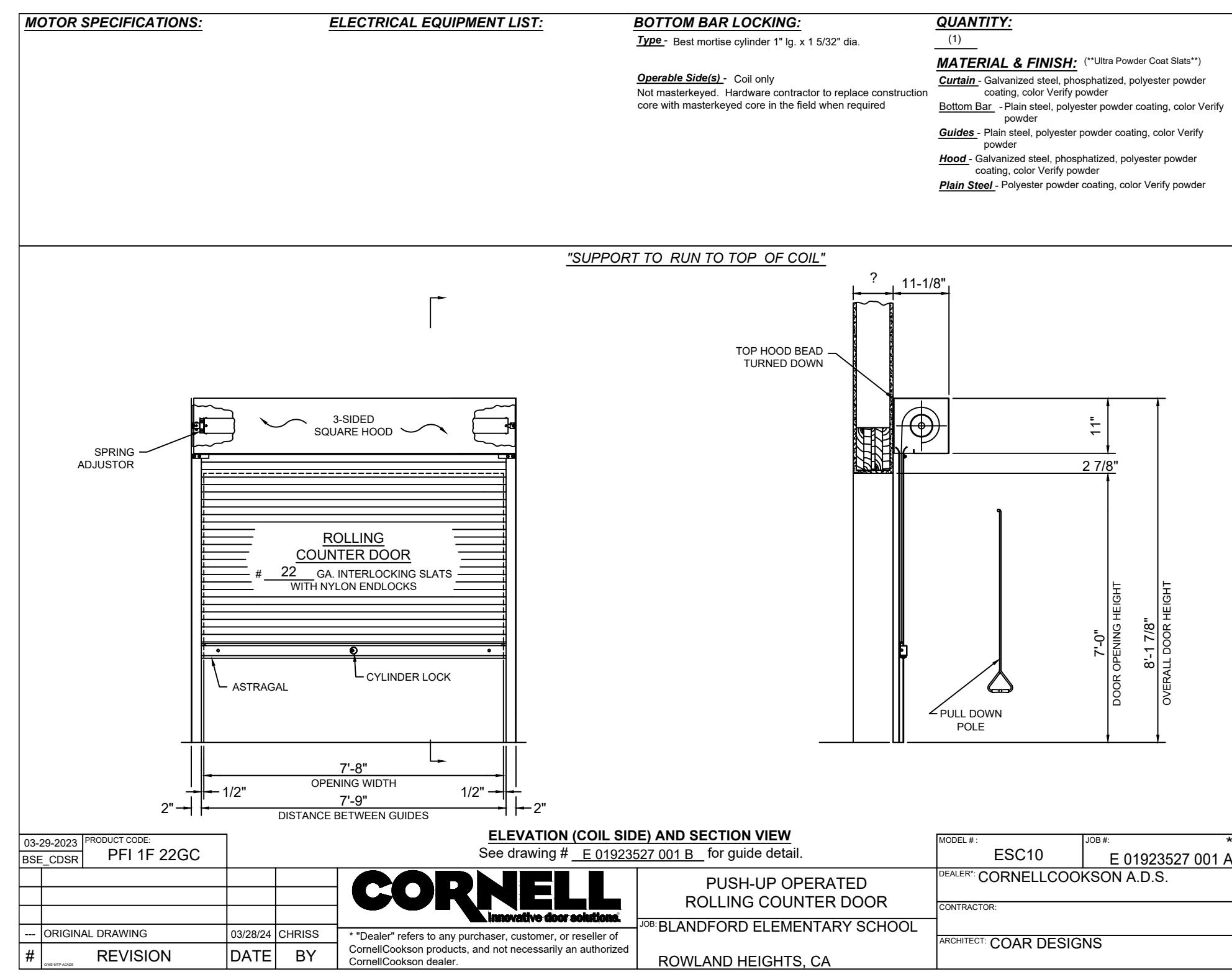
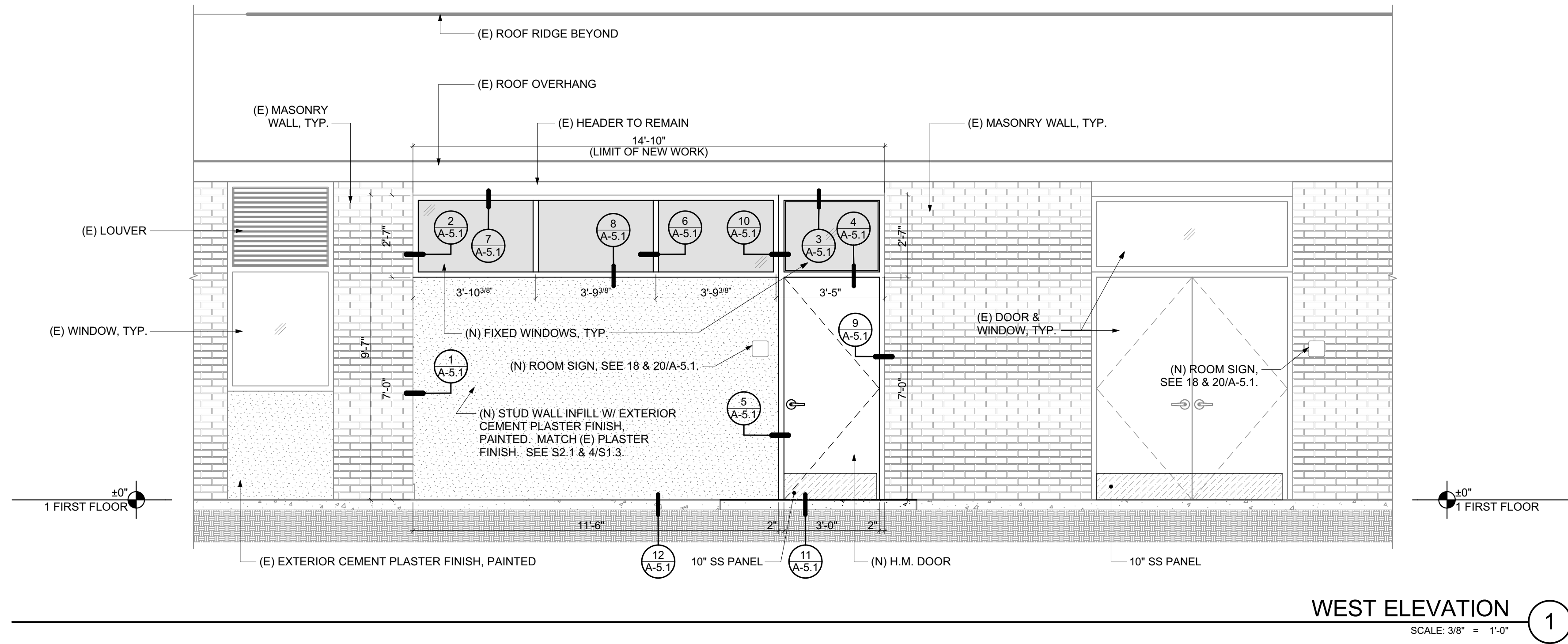
PROJECT NO: 202310
SCALE: AS SHOWN
DATE: 4/2/2024
DRAWN BY: ED / LC
CHECKED BY: DL

DEMO & PROPOSED FLOOR PLANS & REFLECTED CEILING PLAN

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SUBMITTAL REVISIONS:

1	SCHEMATIC DESIGN	9/19/2023
2	DESIGN DEVELOPMENT	12/4/2023
3	DSA PROGRESS UPLOAD	1/20/2024
4	DSA SUBMITTAL	3/4/2024
5	DSA SUBMITTAL V2	4/2/2024

PROJECT NO: 202310
 SCALE: AS SHOWN
 DATE: 4/2/2024
 DRAWN BY: ED / LC
 CHECKED BY: DL

SHEET TITLE:
 SECTIONS AND ELEVATIONS

SHEET NO:

B:\Archives\COAR\COAR-23 - Blandford ES Kitchen Mod. Transfer April 2, 2024 - 2:54 PM

MATERIAL SCHEDULE

- SS STAINLESS STEEL WALL FLASHING
- SGPT SEMI-GLOSS PAINT

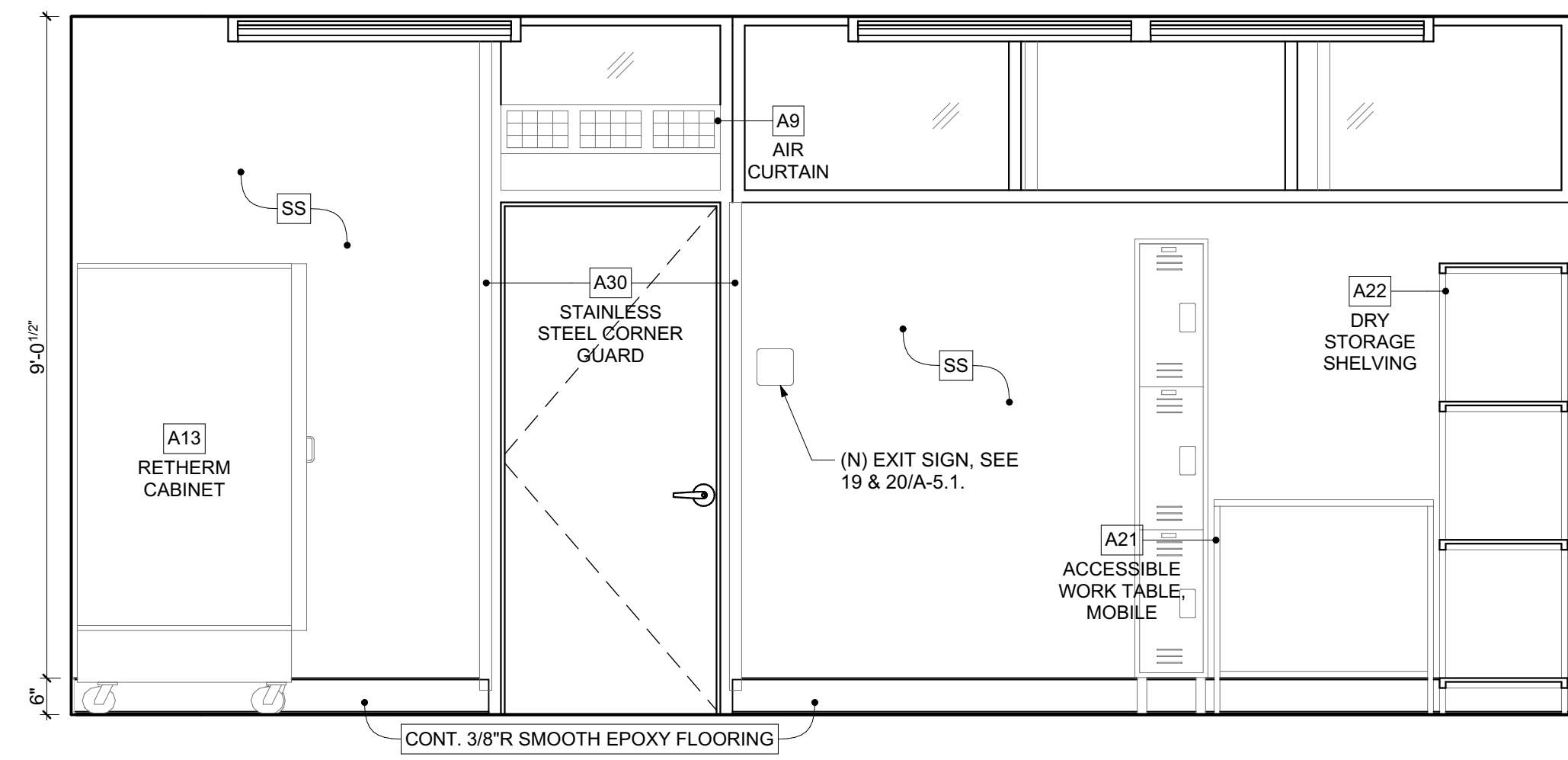
DSA APPROVAL STAMP

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-124069 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 05/24/2024

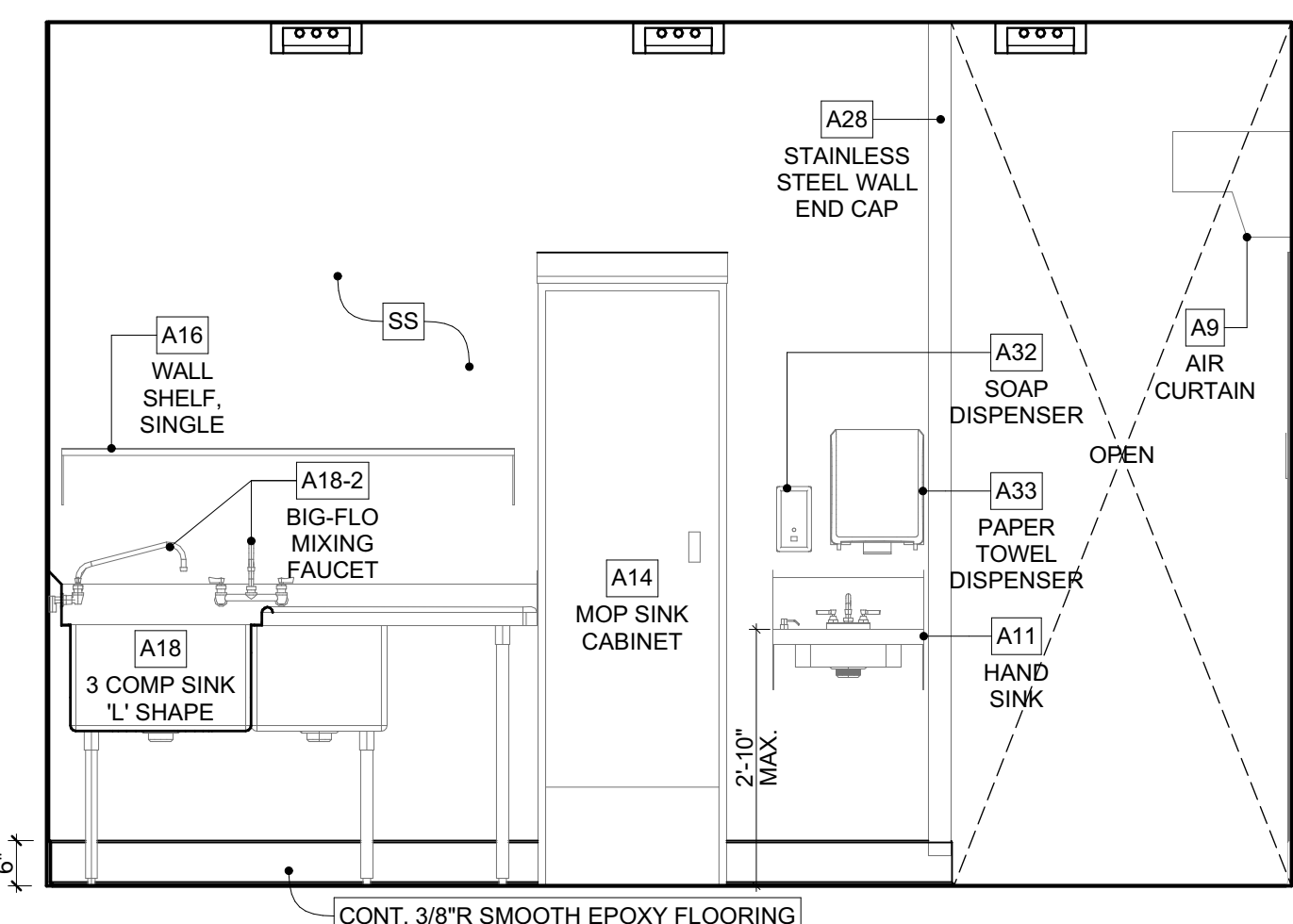
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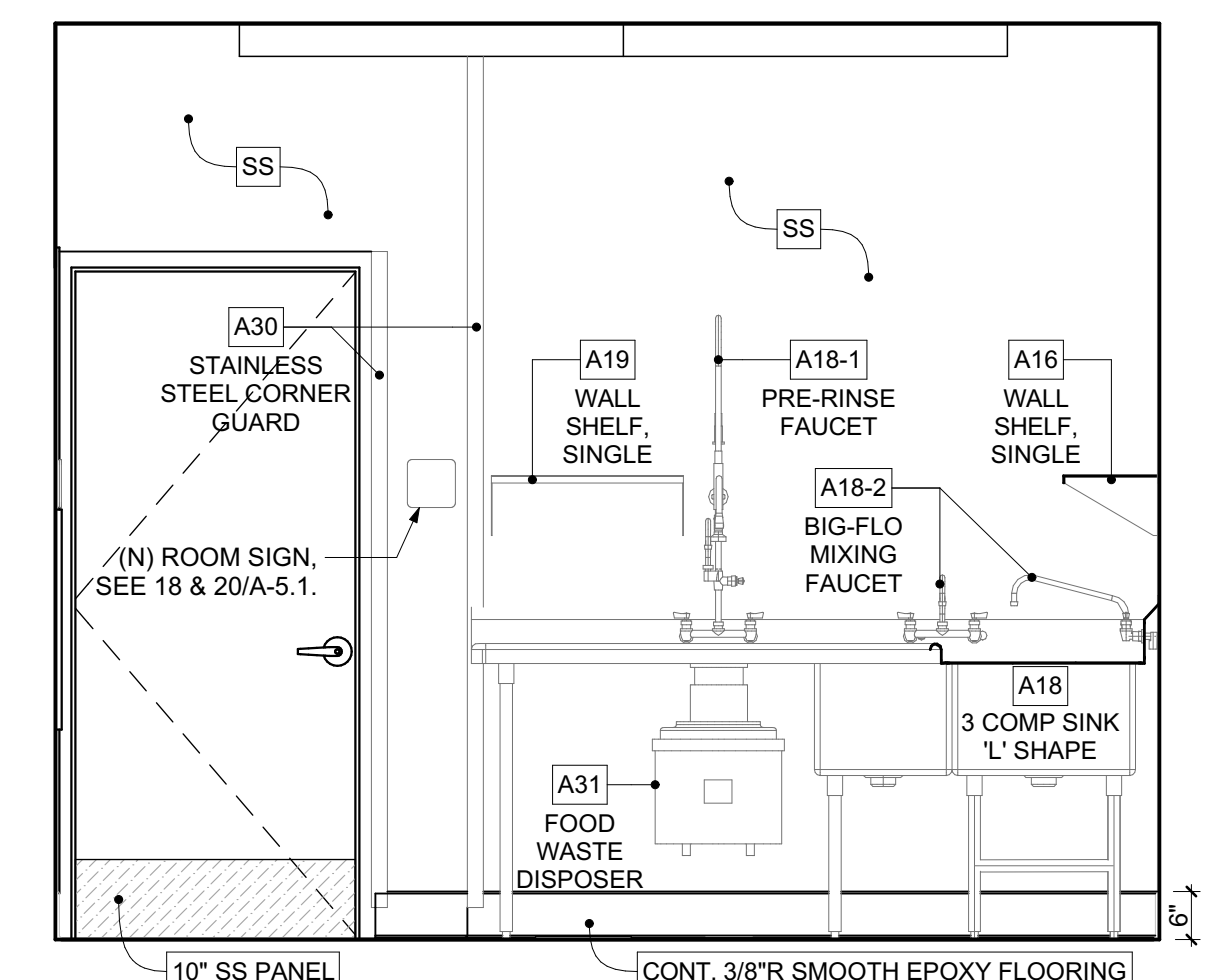
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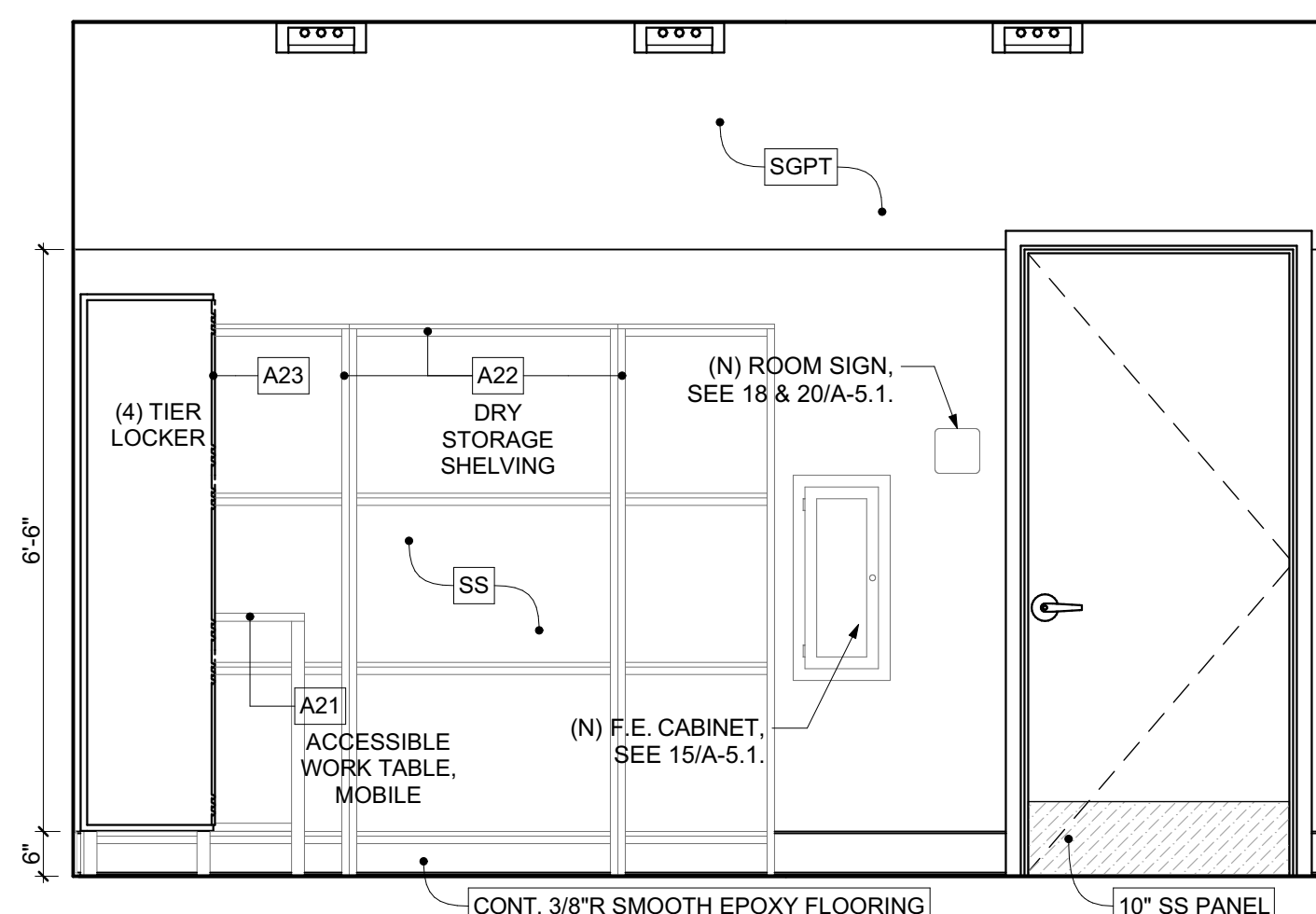
06 KITCHEN West
 SCALE: 1/2" = 1'-0" 1



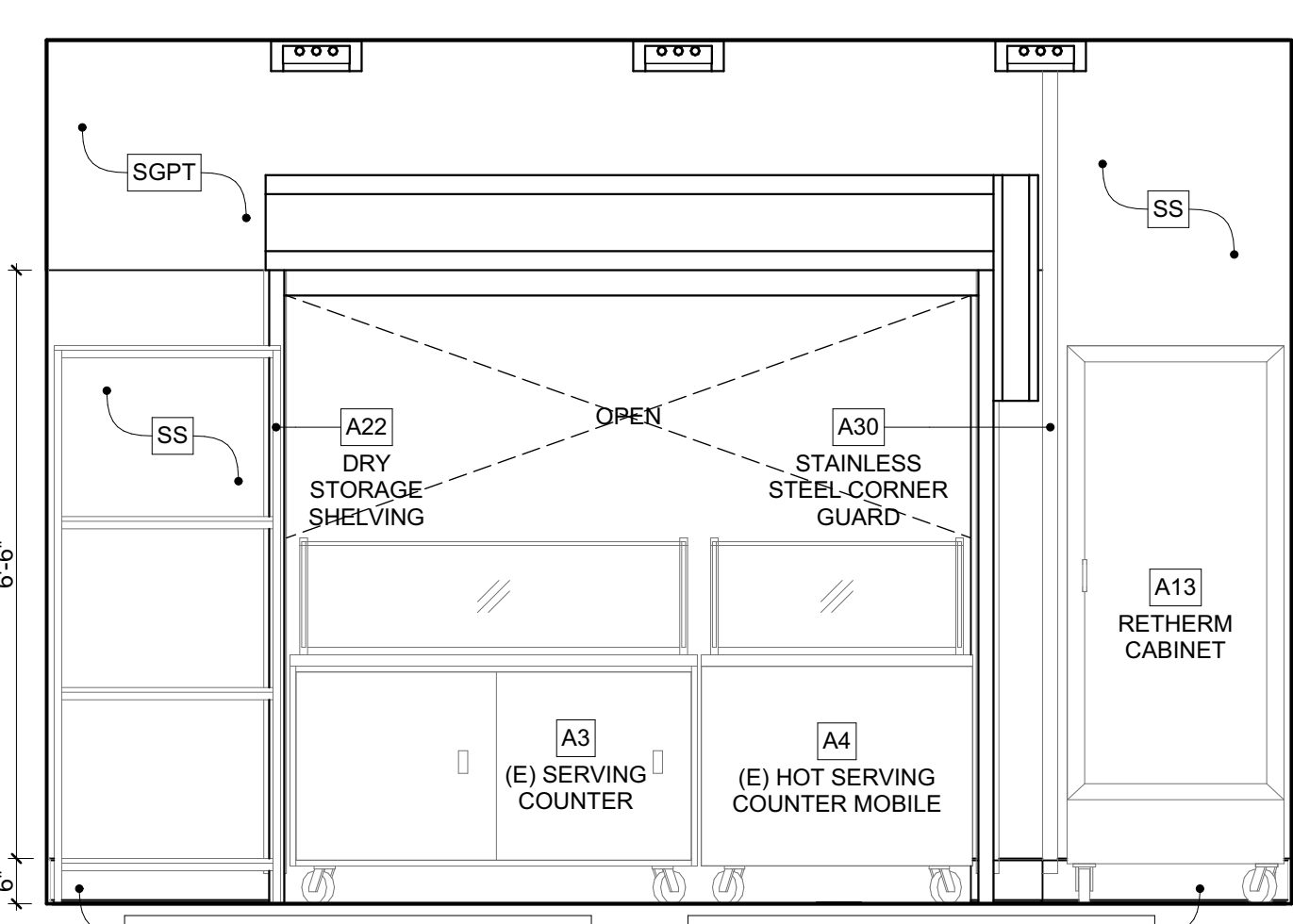
06 KITCHEN South
 SCALE: 1/2" = 1'-0" 4



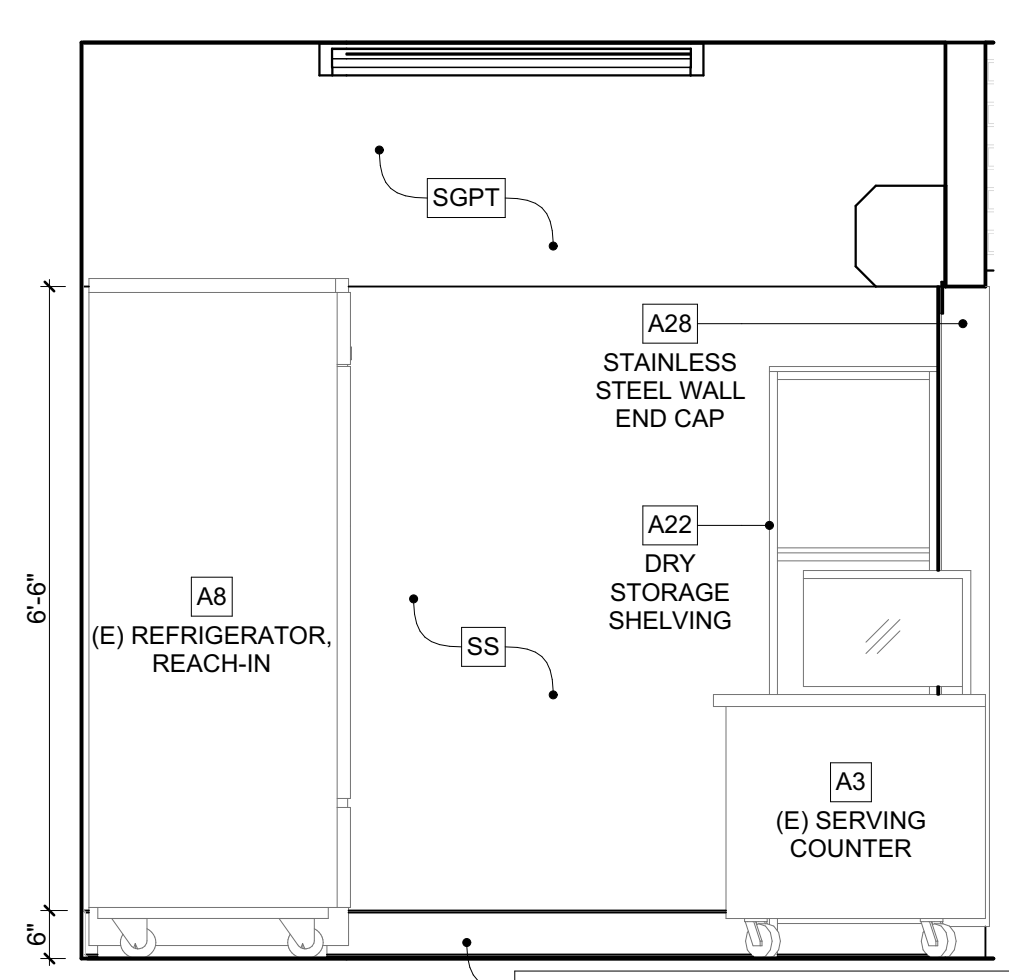
06 KITCHEN East
 SCALE: 1/2" = 1'-0" 3



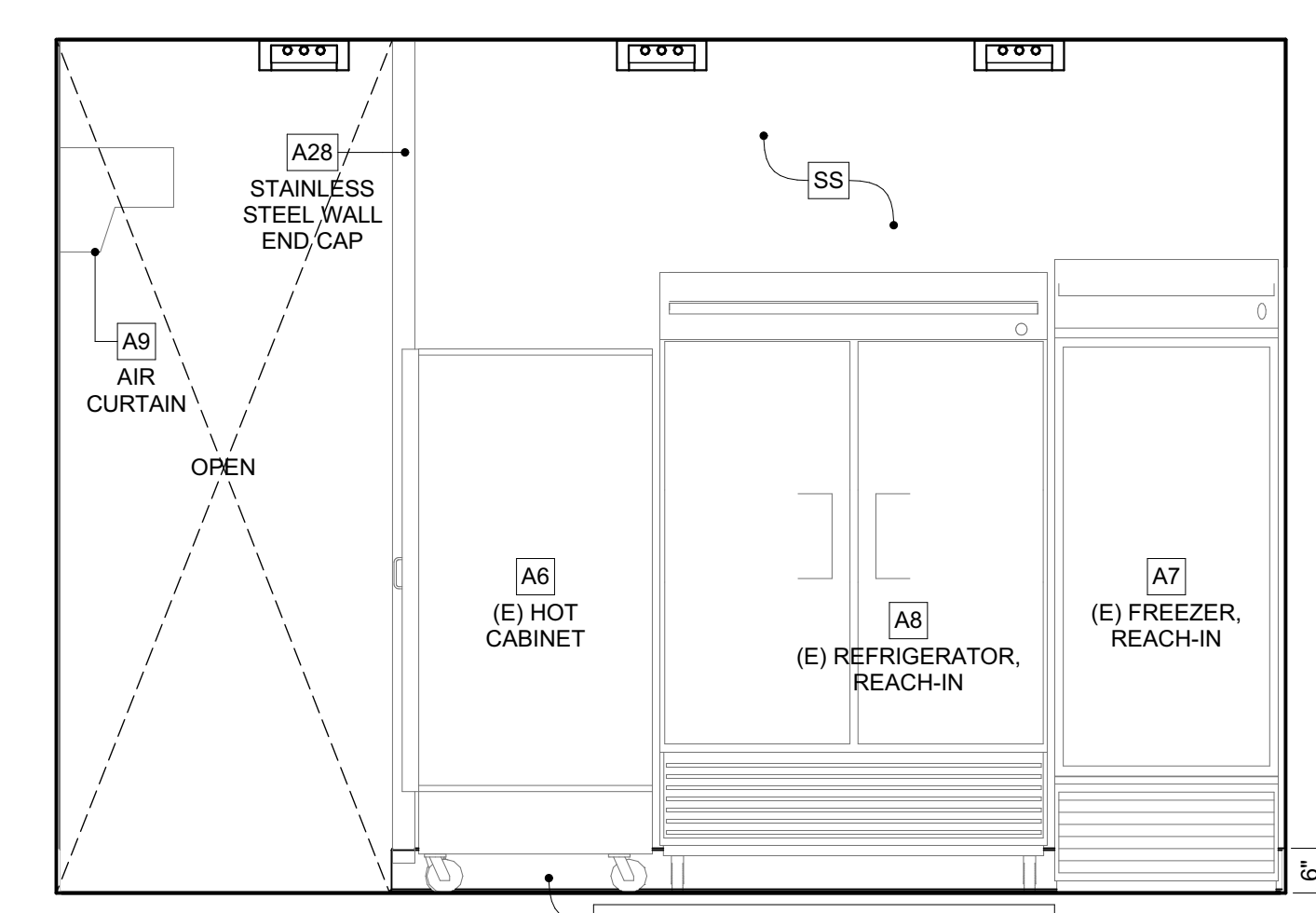
06 KITCHEN North
 SCALE: 1/2" = 1'-0" 2



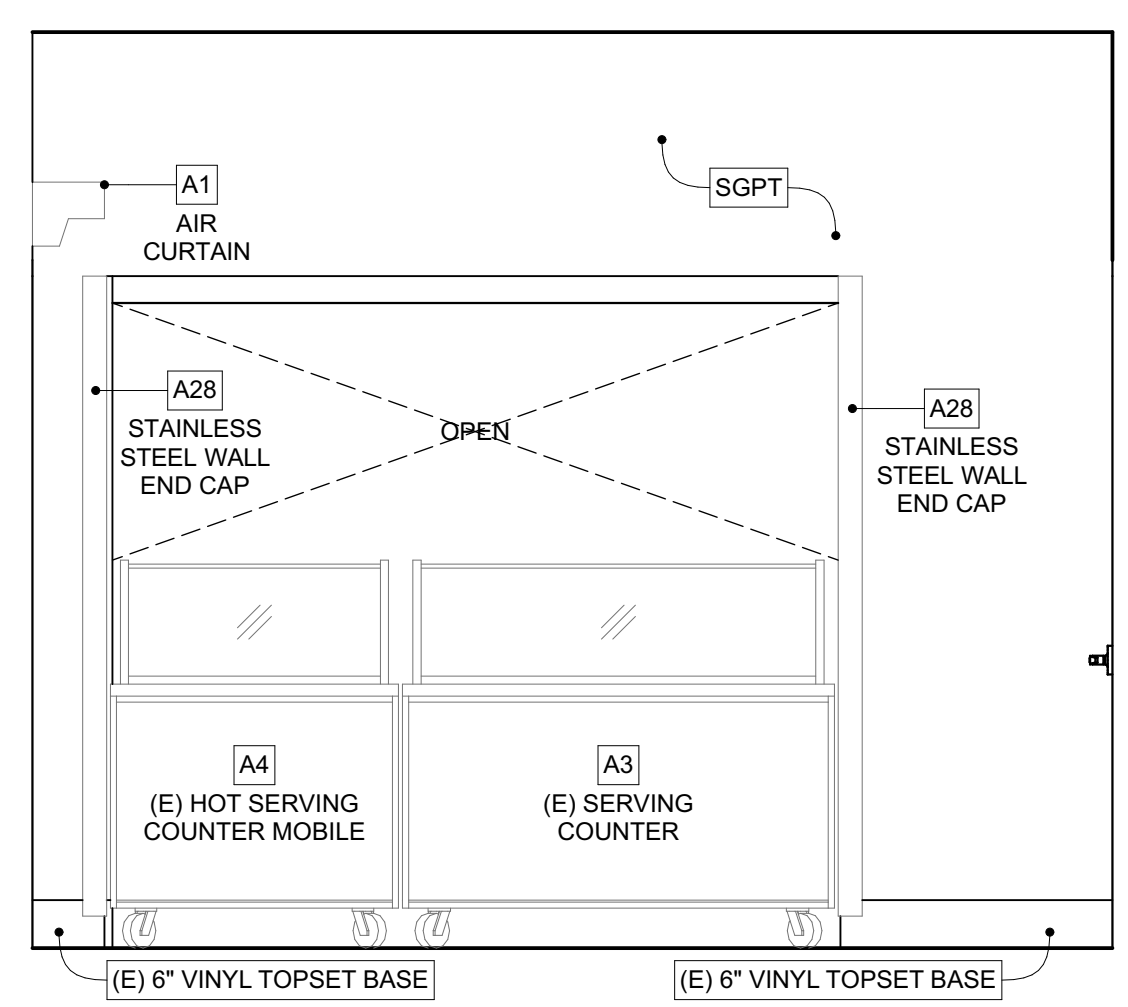
06 KITCHEN South
 SCALE: 1/2" = 1'-0" 7



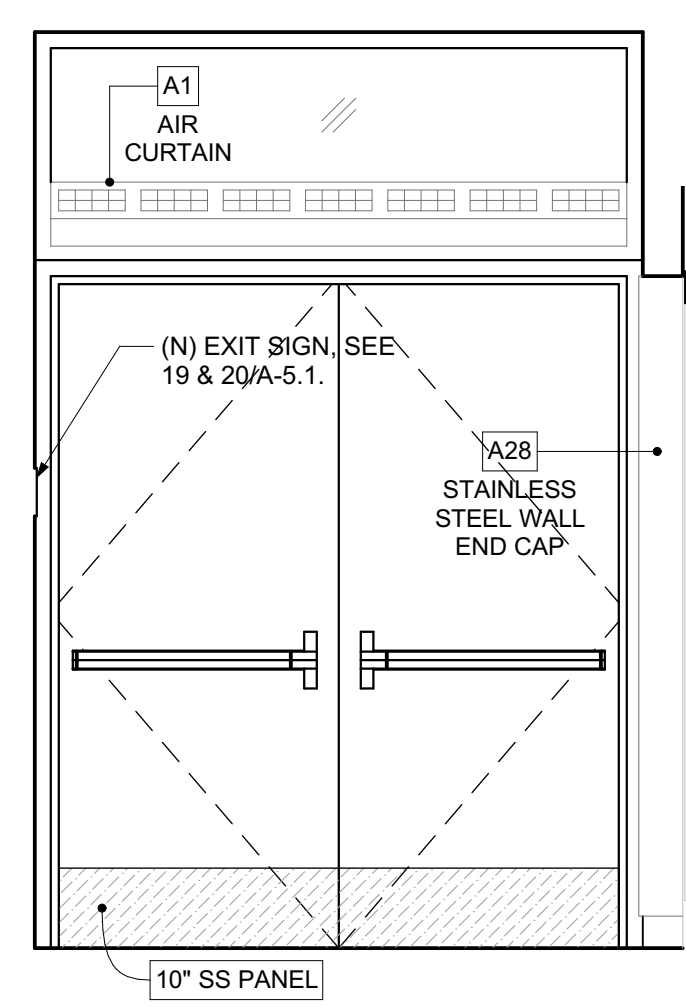
06 KITCHEN East
 SCALE: 1/2" = 1'-0" 6



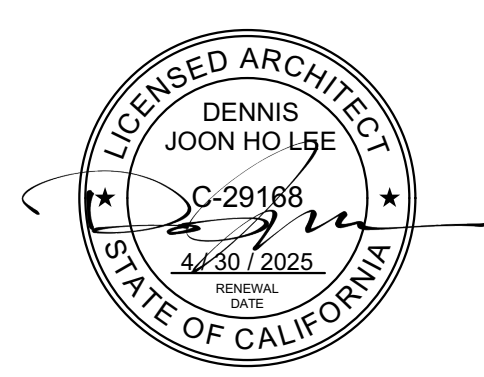
06 KITCHEN North
 SCALE: 1/2" = 1'-0" 5



04 HALL North
 SCALE: 1/2" = 1'-0" 9



04 HALL West
 SCALE: 1/2" = 1'-0" 8



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CO-AR DESIGN, INC.
 650 Brea Canyon Road, Suite 178
 Diamond Bar, California 91789
 Office: 909-598-0186

Dennis J. Lee, NCARB dennis@coar.design.com

PROJECT:



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
 ROWLAND HEIGHTS, CA 91748

CLIENT:
 ROWLAND UNIFIED SCHOOL DISTRICT
 1830 NOGALES STREET
 ROWLAND HEIGHTS, CA 91748

SUBMITTAL REVISIONS:

1	SCHEMATIC DESIGN	9/19/2023
2	DESIGN DEVELOPMENT	12/4/2023
3	DSA PROGRESS UPLOAD	1/20/2024
4	DSA SUBMITTAL	3/4/2024
5	DSA SUBMITTAL V2	4/2/2024

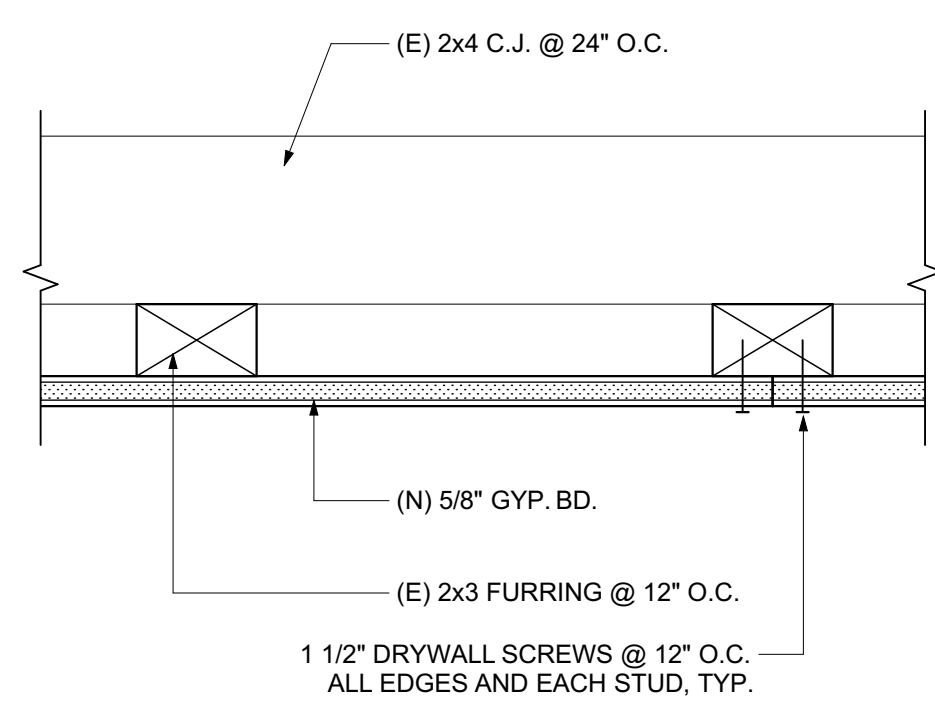
PROJECT NO: 202310
 SCALE: AS SHOWN
 DATE: 4/2/2024
 DRAWN BY: ED / LC
 CHECKED BY: DL

INTERIOR ELEVATIONS

SHEET NO:
A-4.1

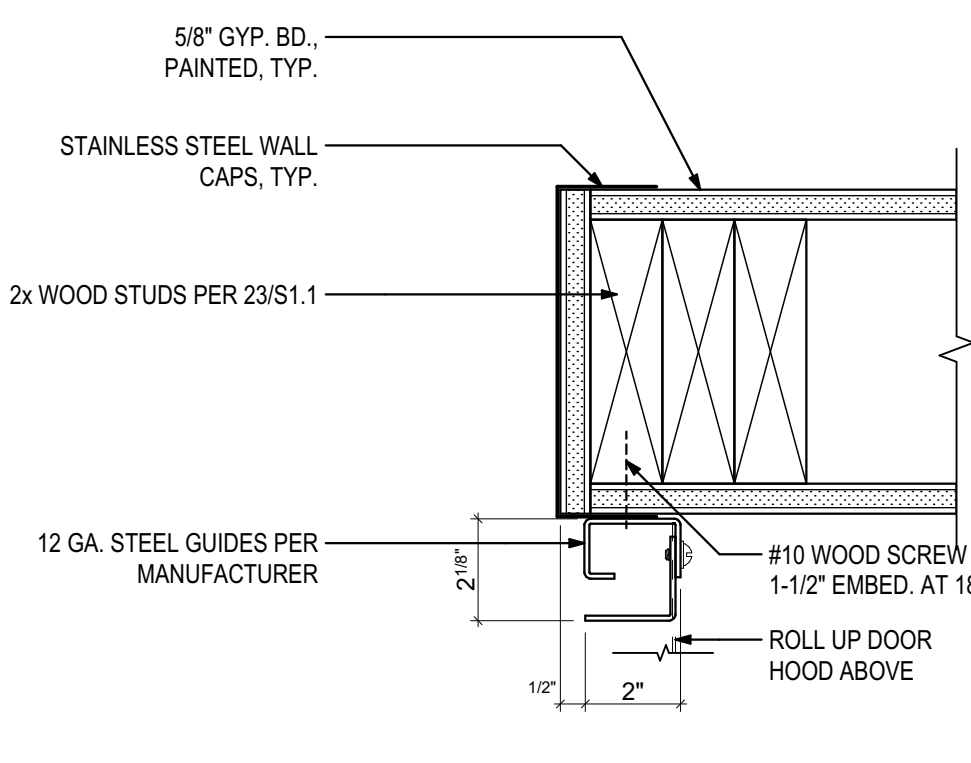
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NOTES:



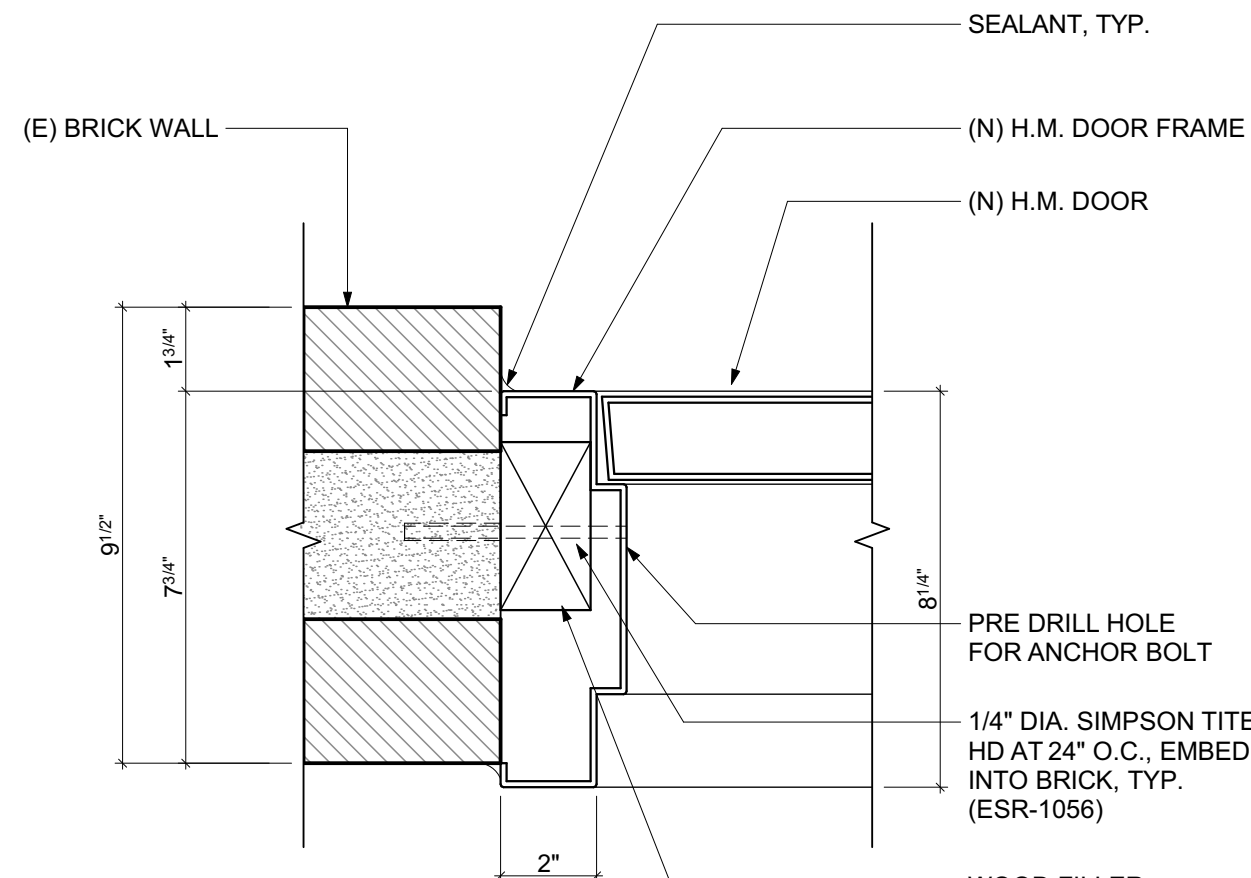
(N) GYP. BD AT (E) CEILING FRAMING
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17



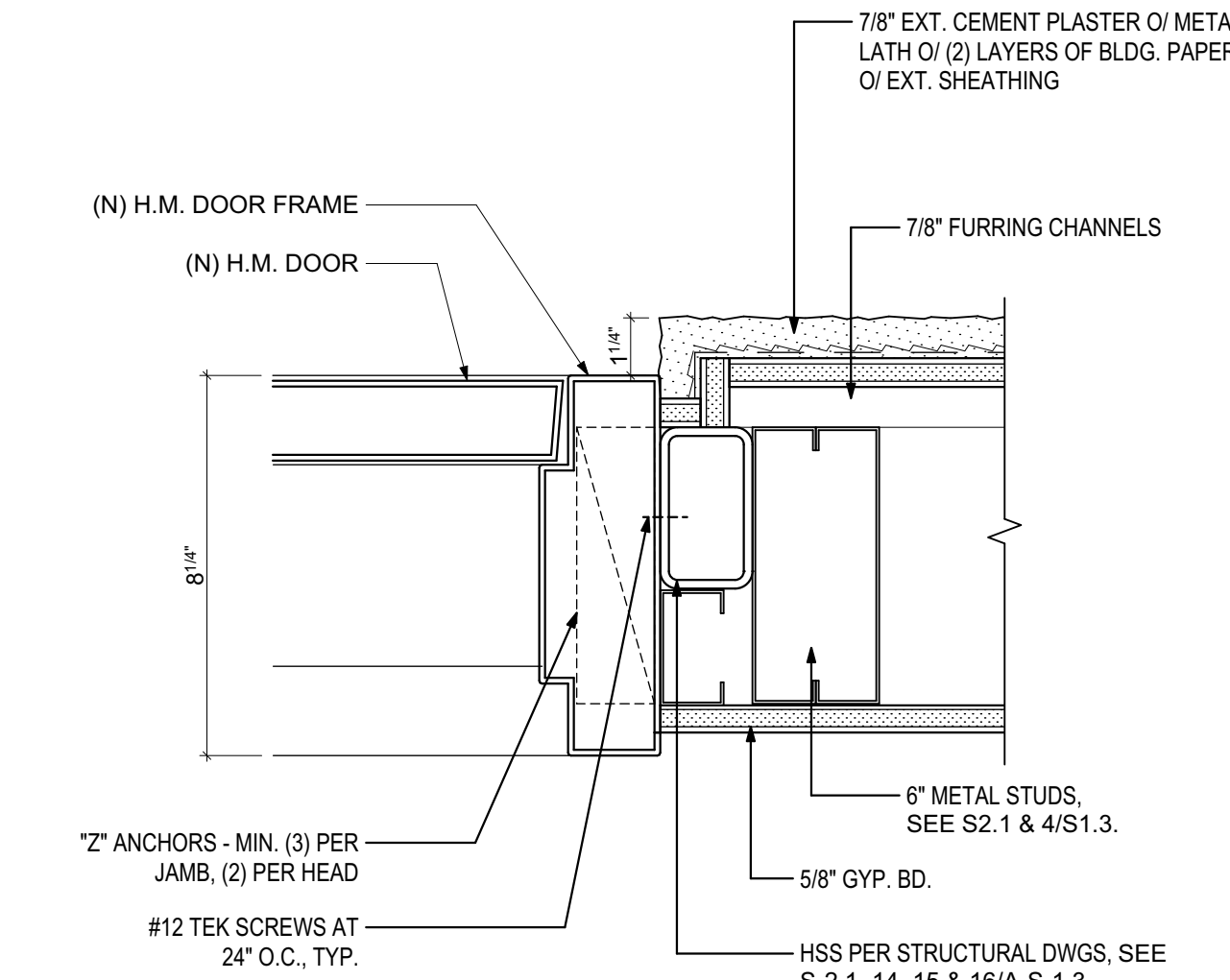
INTERIOR ROLL UP DOOR JAMB
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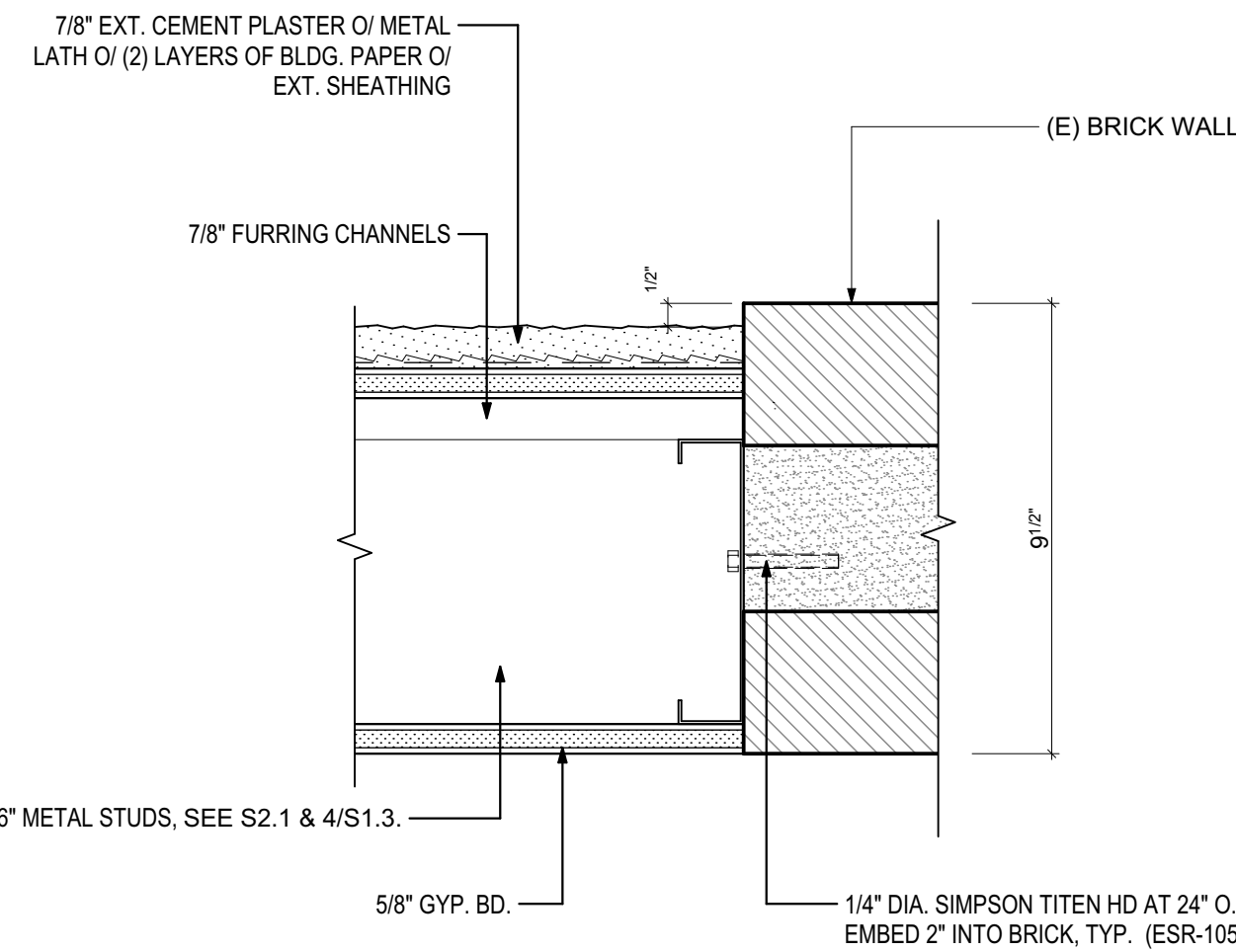
HOLLOW METAL DOOR JAMB @ BRICK WALL
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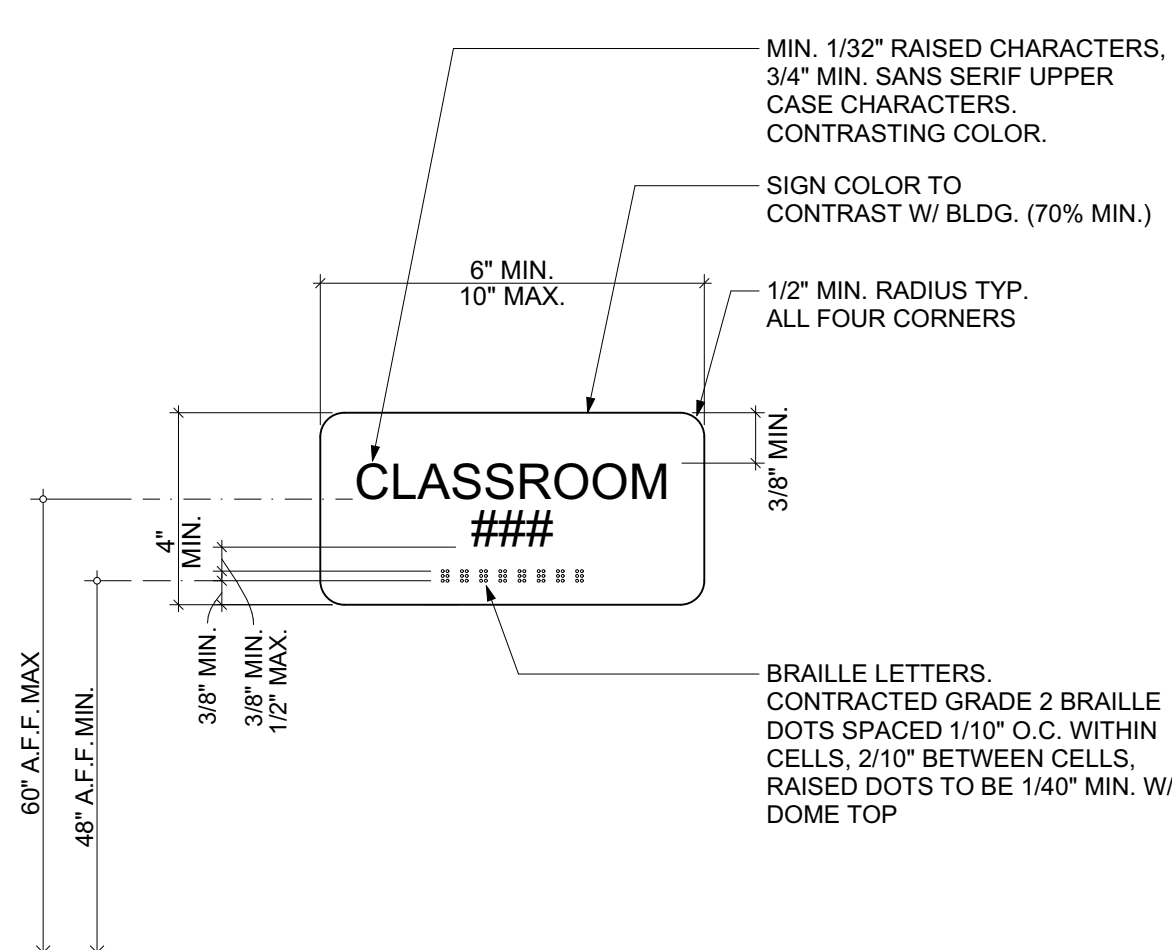
HOLLOW METAL DOOR JAMB @ MTL STUD WALL
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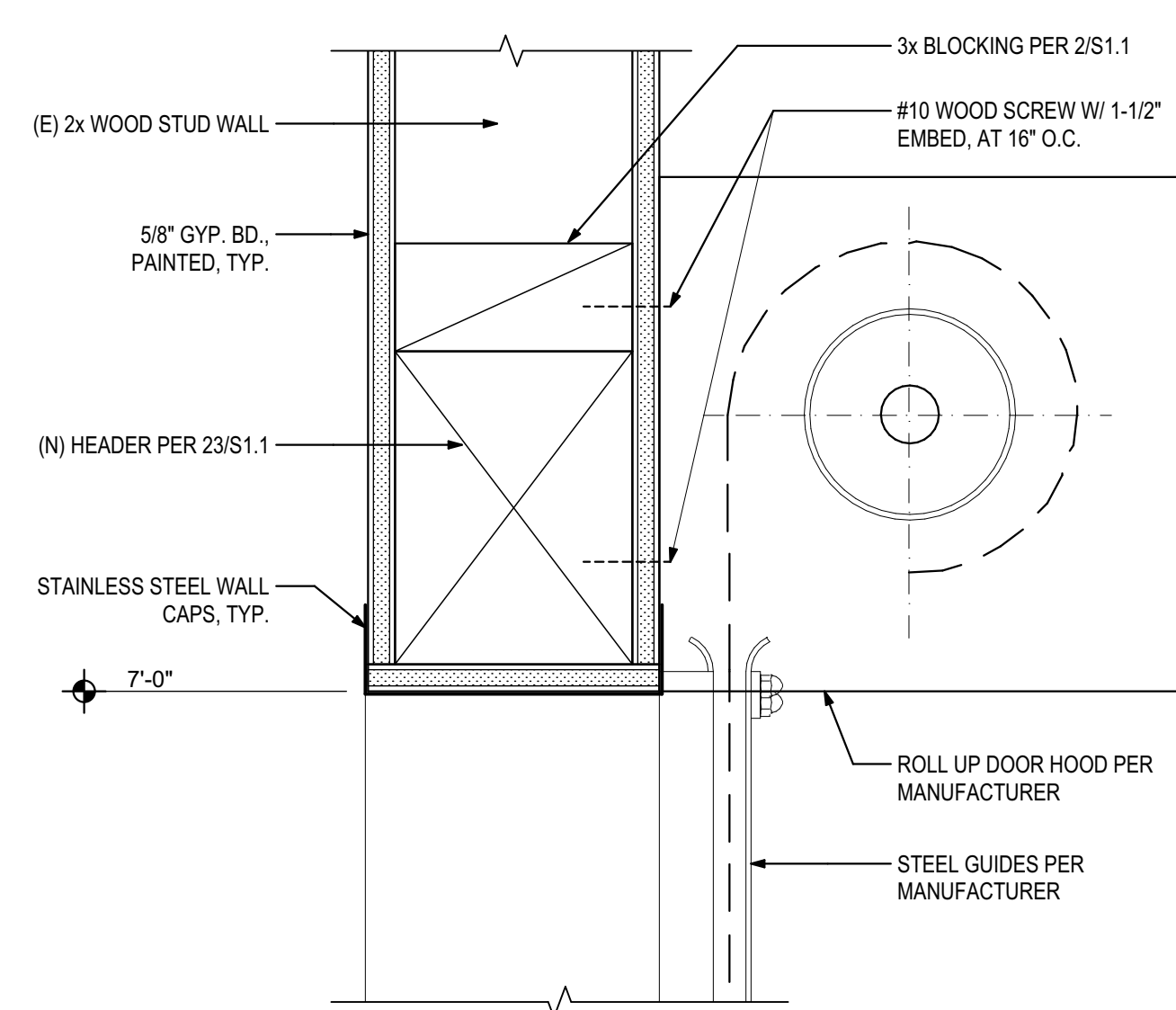
NEW INFILL WALL AT (E) BRICK WALL
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1



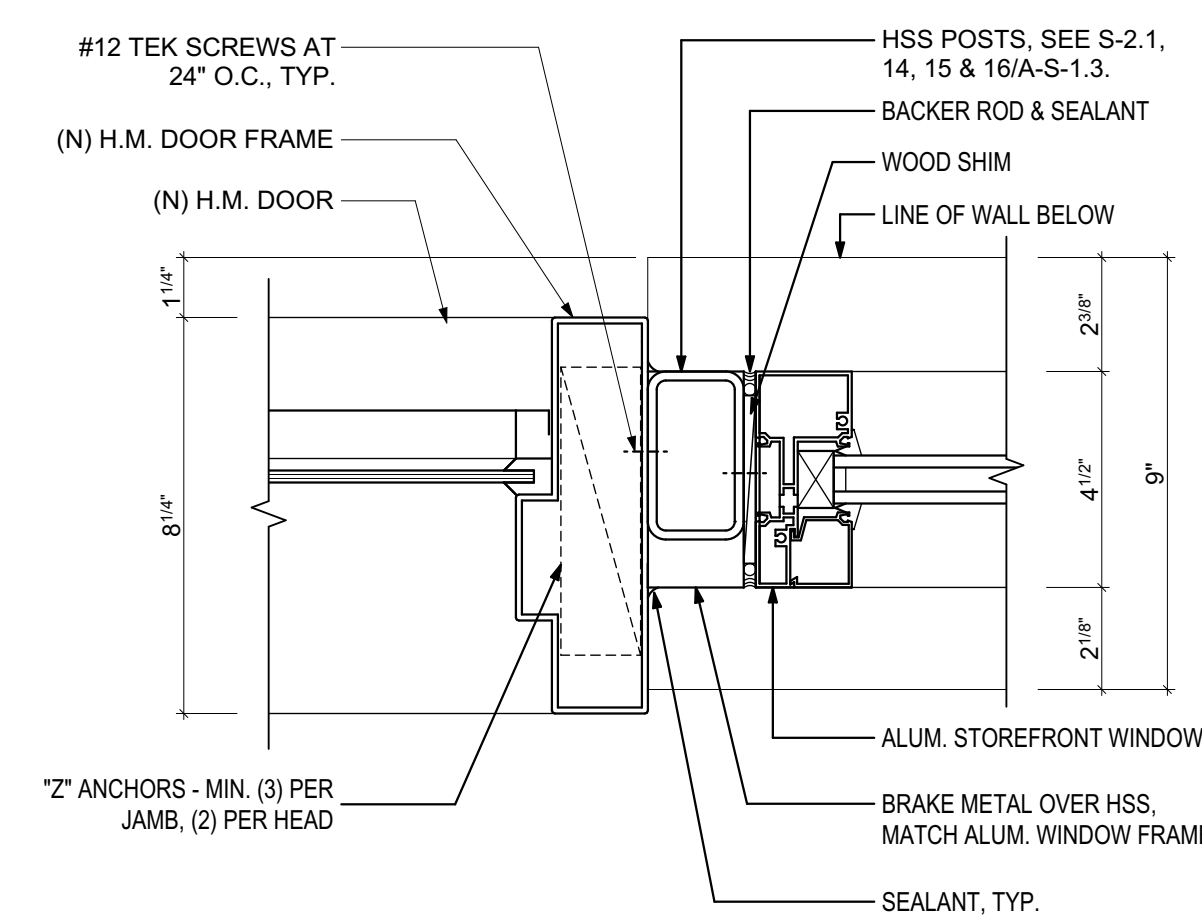
TYPICAL ROOM SIGN
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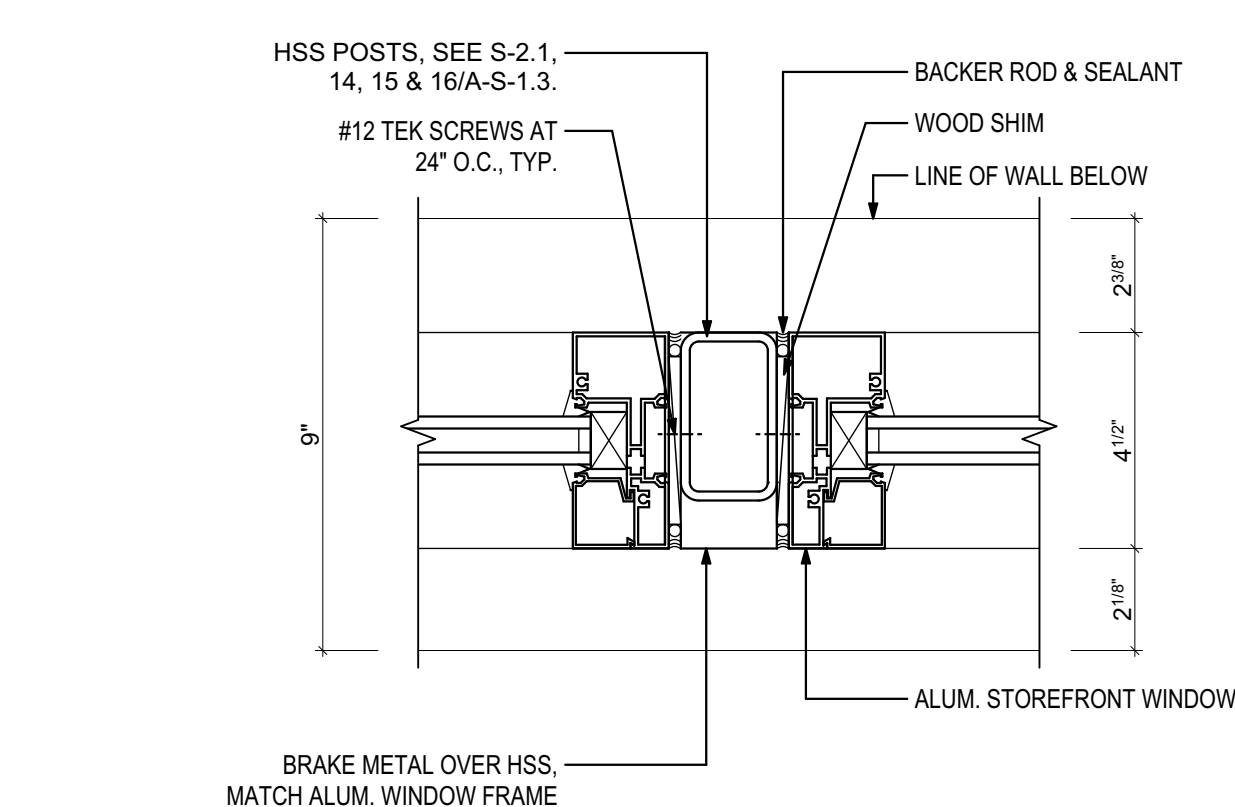
INTERIOR ROLL UP DOOR HEAD
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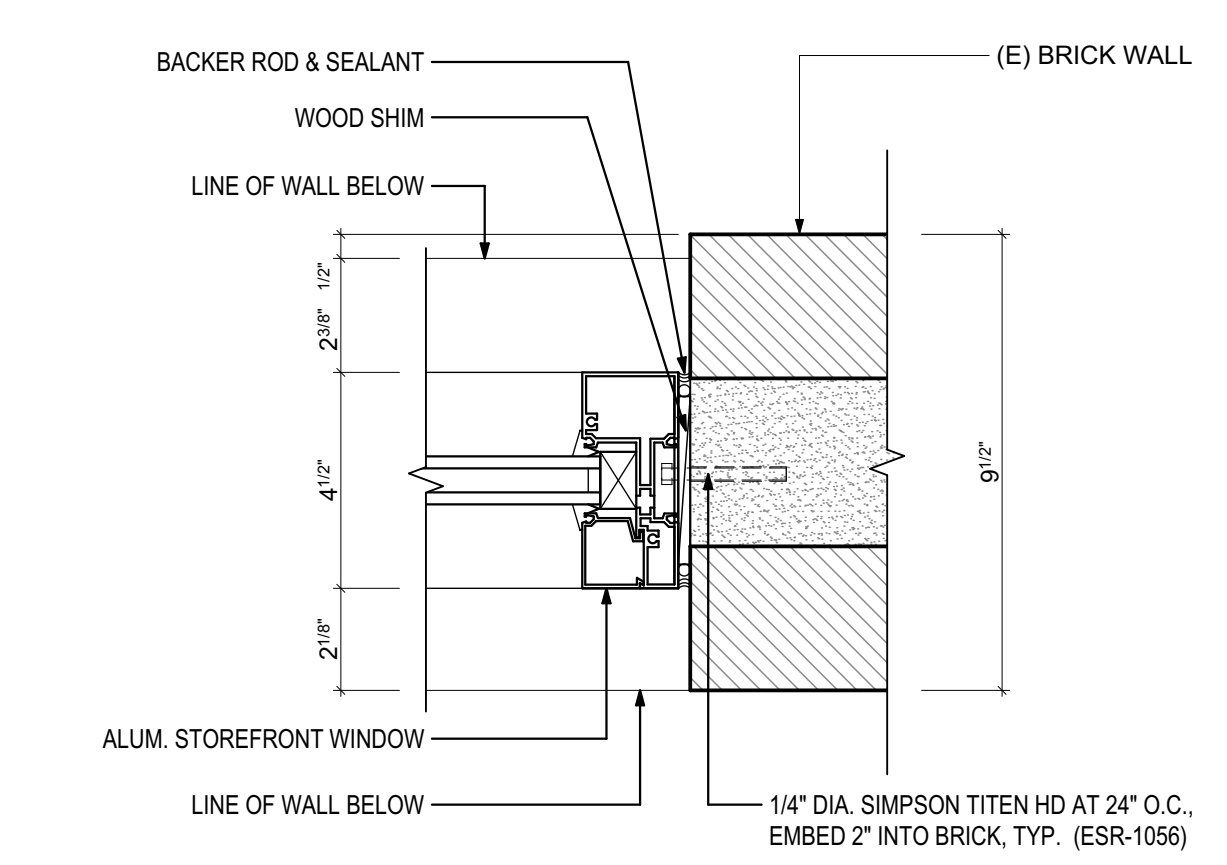
ALUM. WINDOW JAMB AT TRANSOM WINDOW
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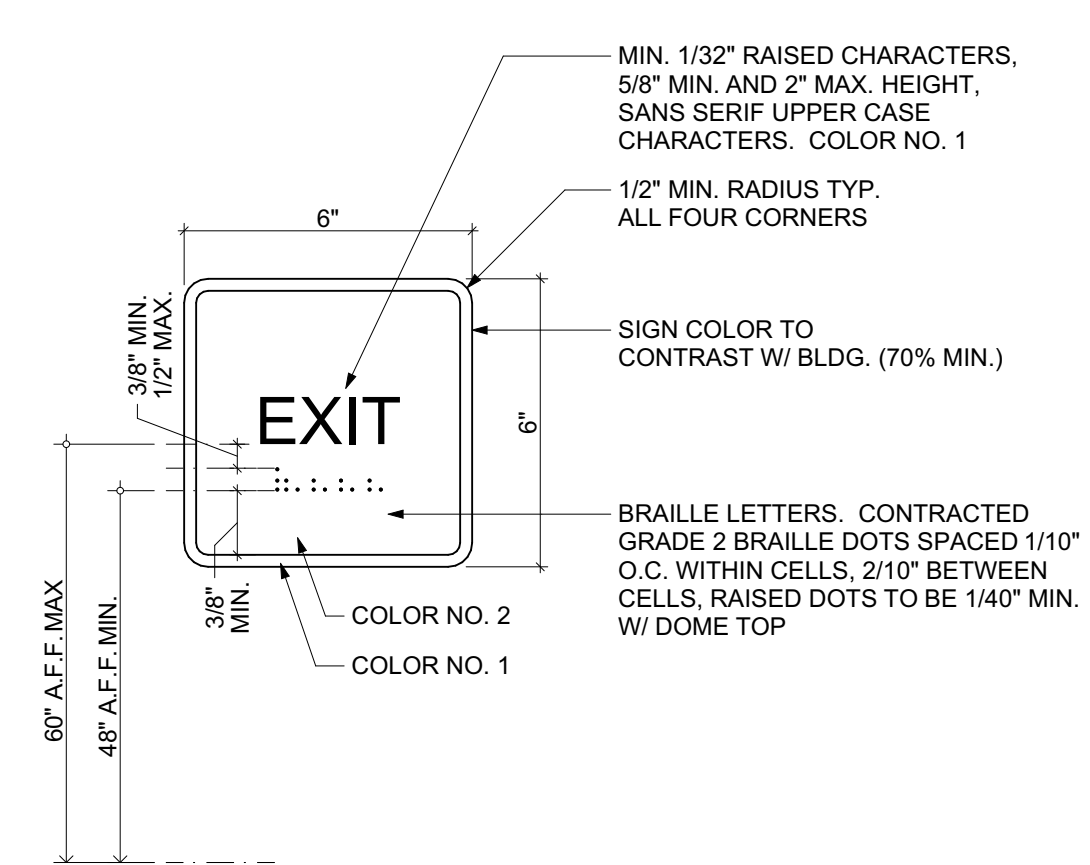
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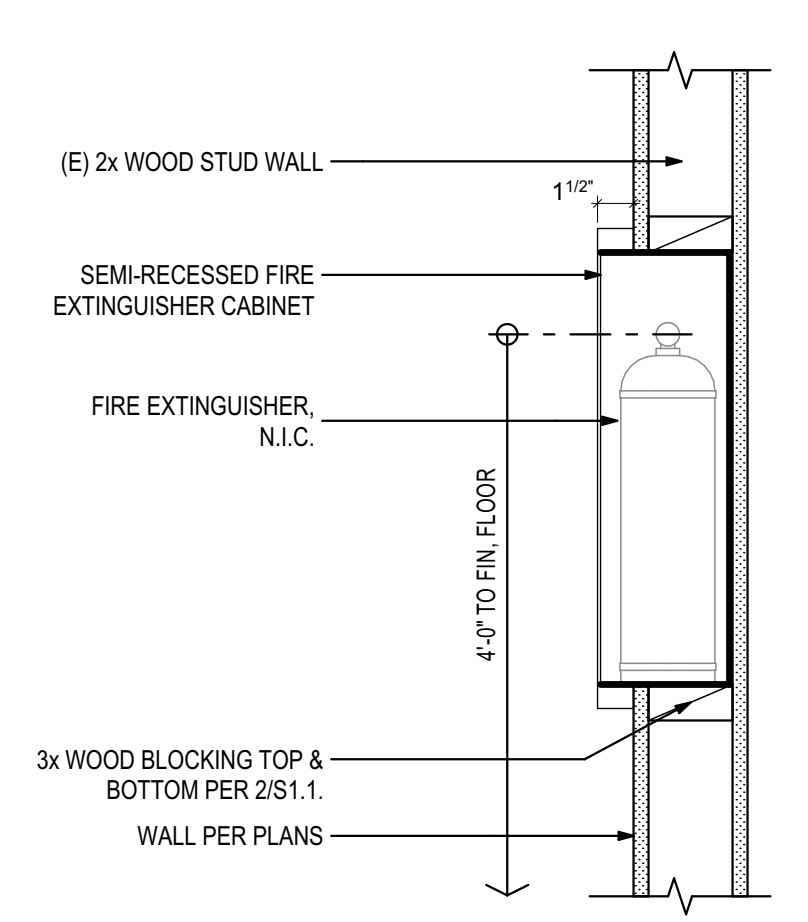
ALUM. WINDOW JAMB AT BRICK WALL
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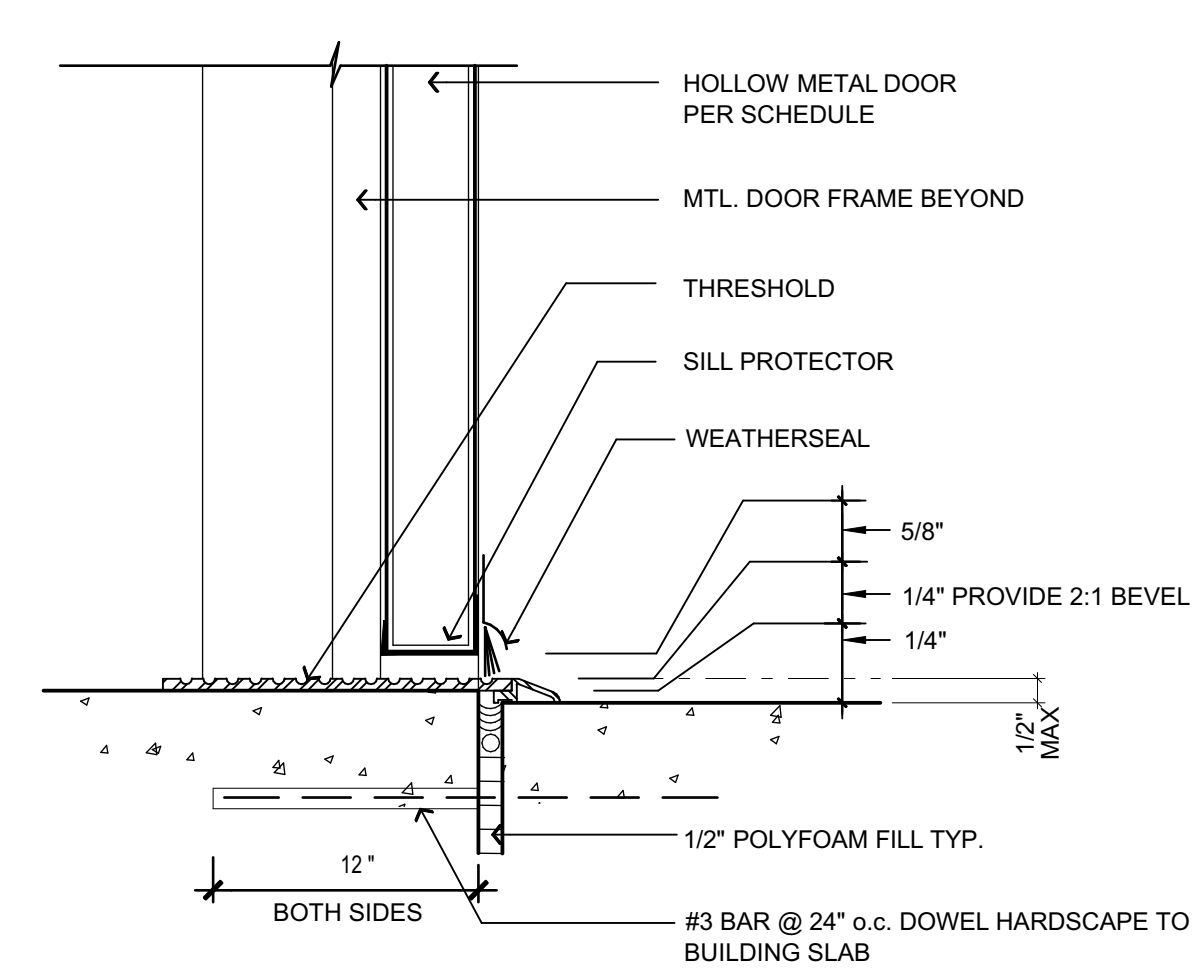
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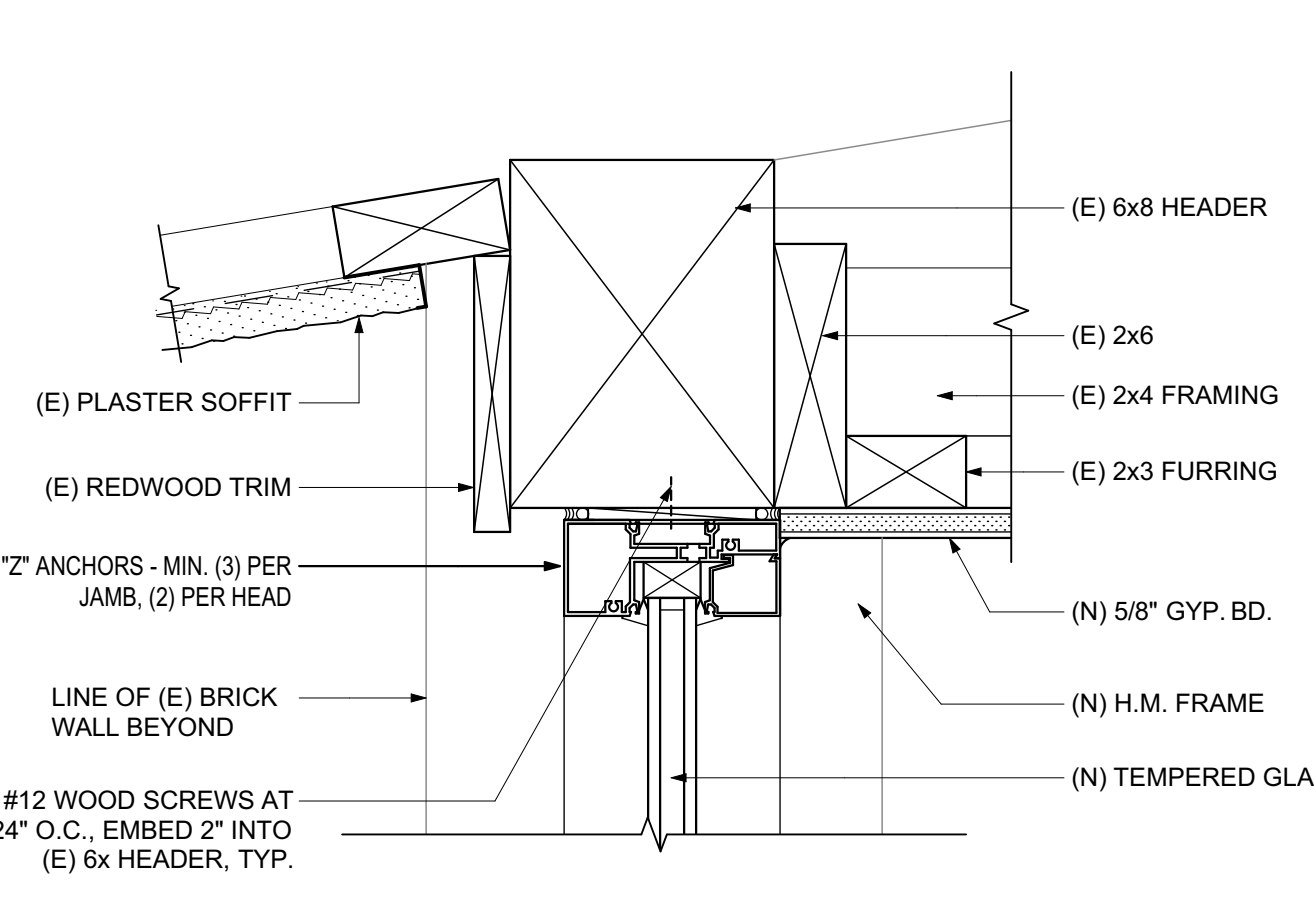
SEMI-RECESSED F. E. CABINET
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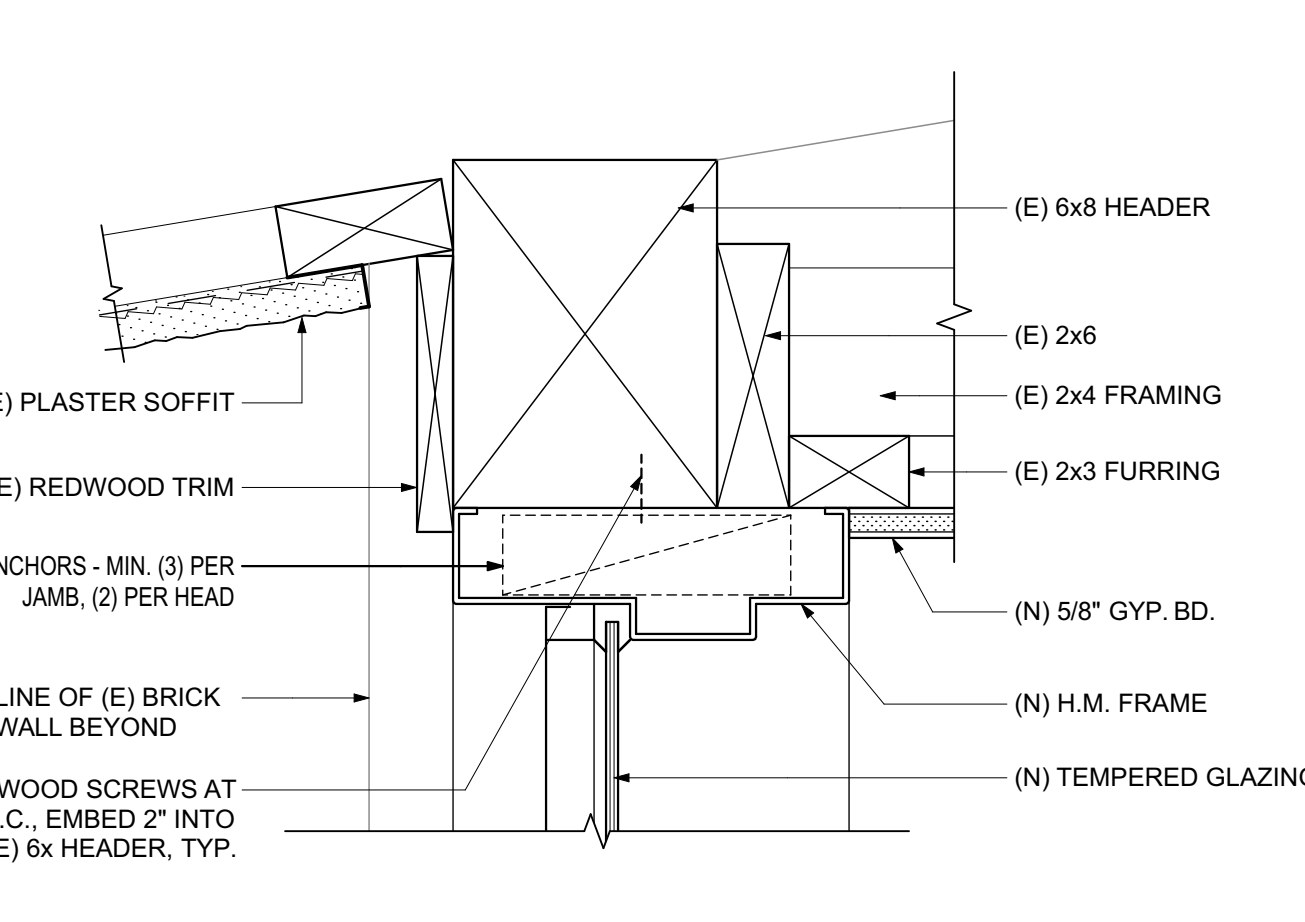
HOLLOW METAL DOOR SILL
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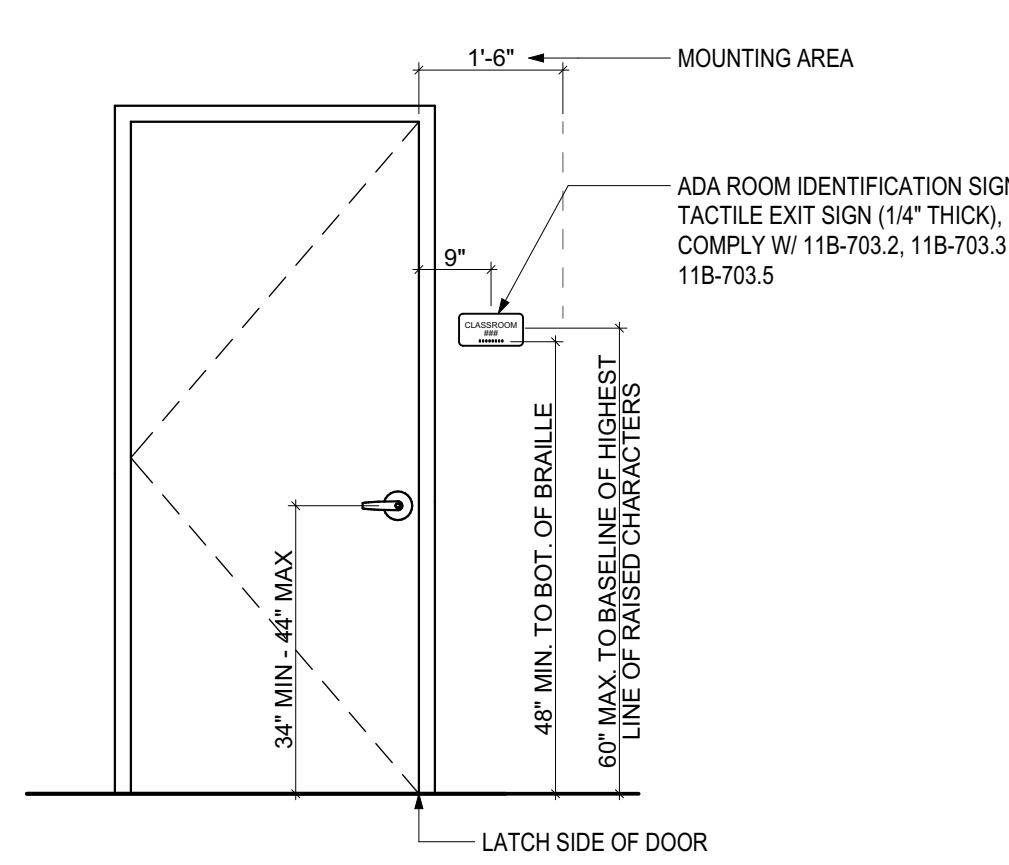
ALUM. WINDOW HEAD
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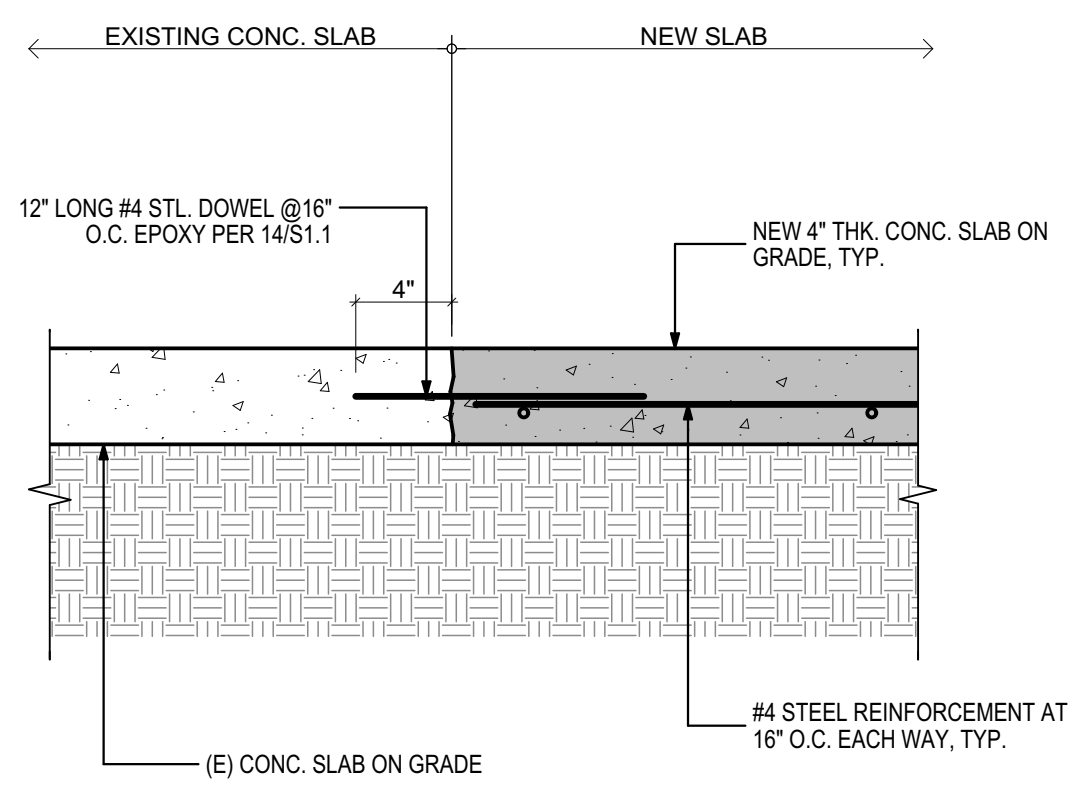
TRANSOM WINDOW HEAD
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3



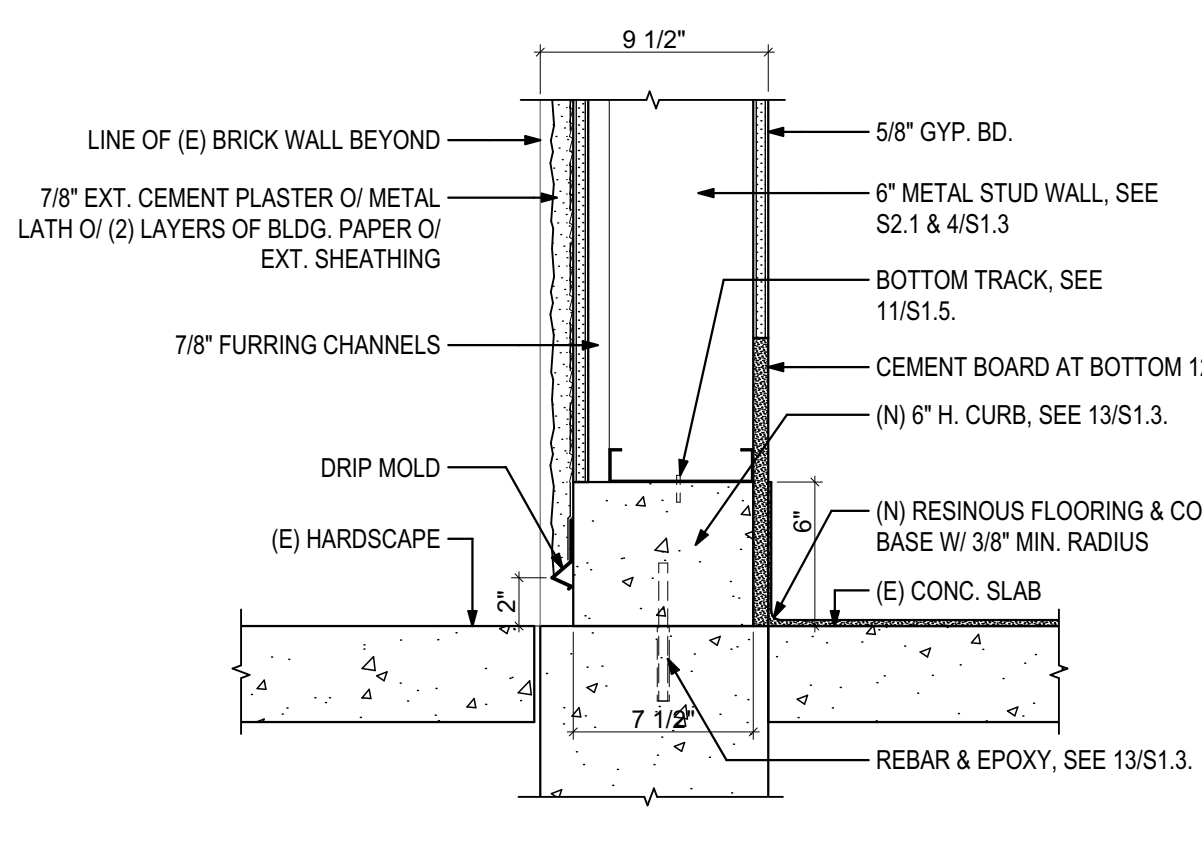
TYPICAL DOOR SIGN MOUNTING
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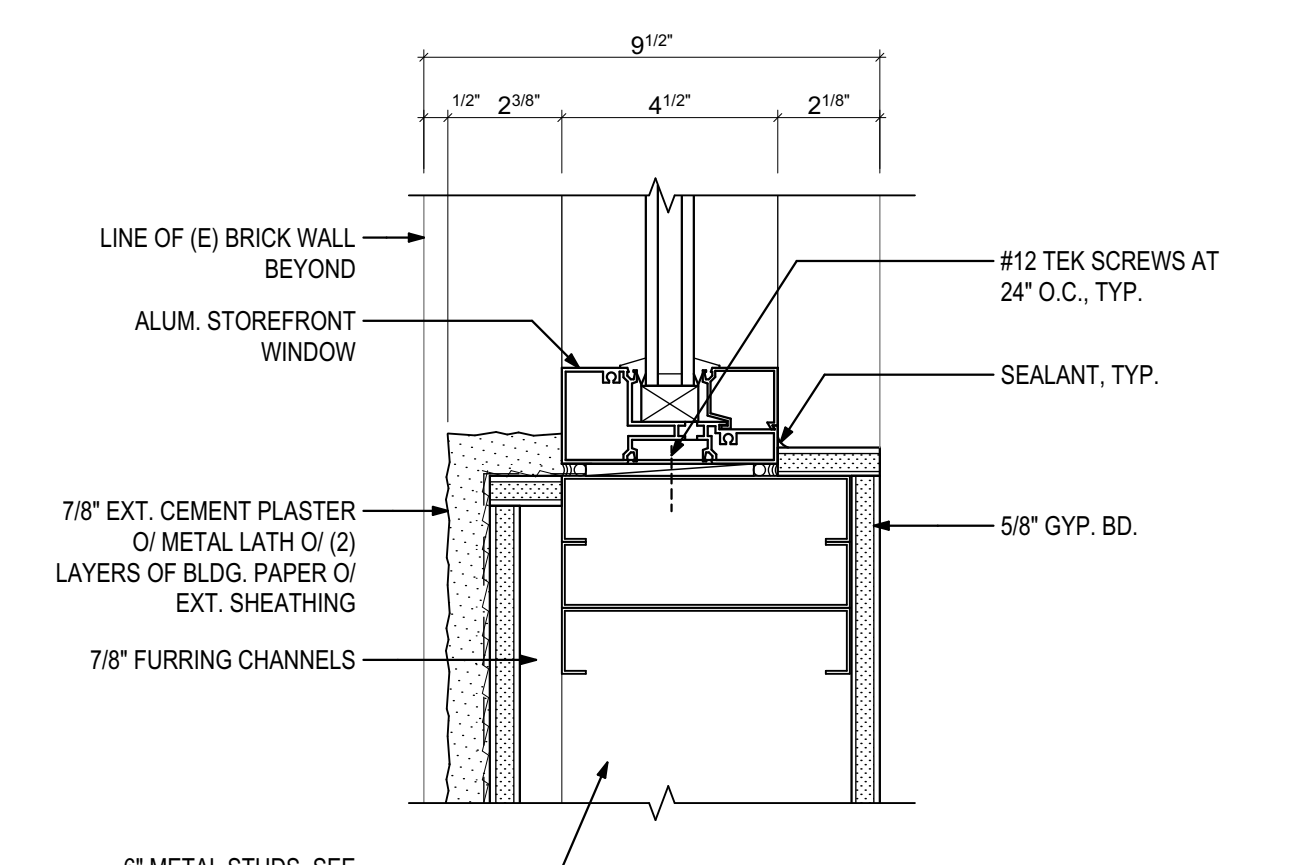
CONC. SLAB AT EXISTING SLAB
SCALE: 1 1/2\"/>

16



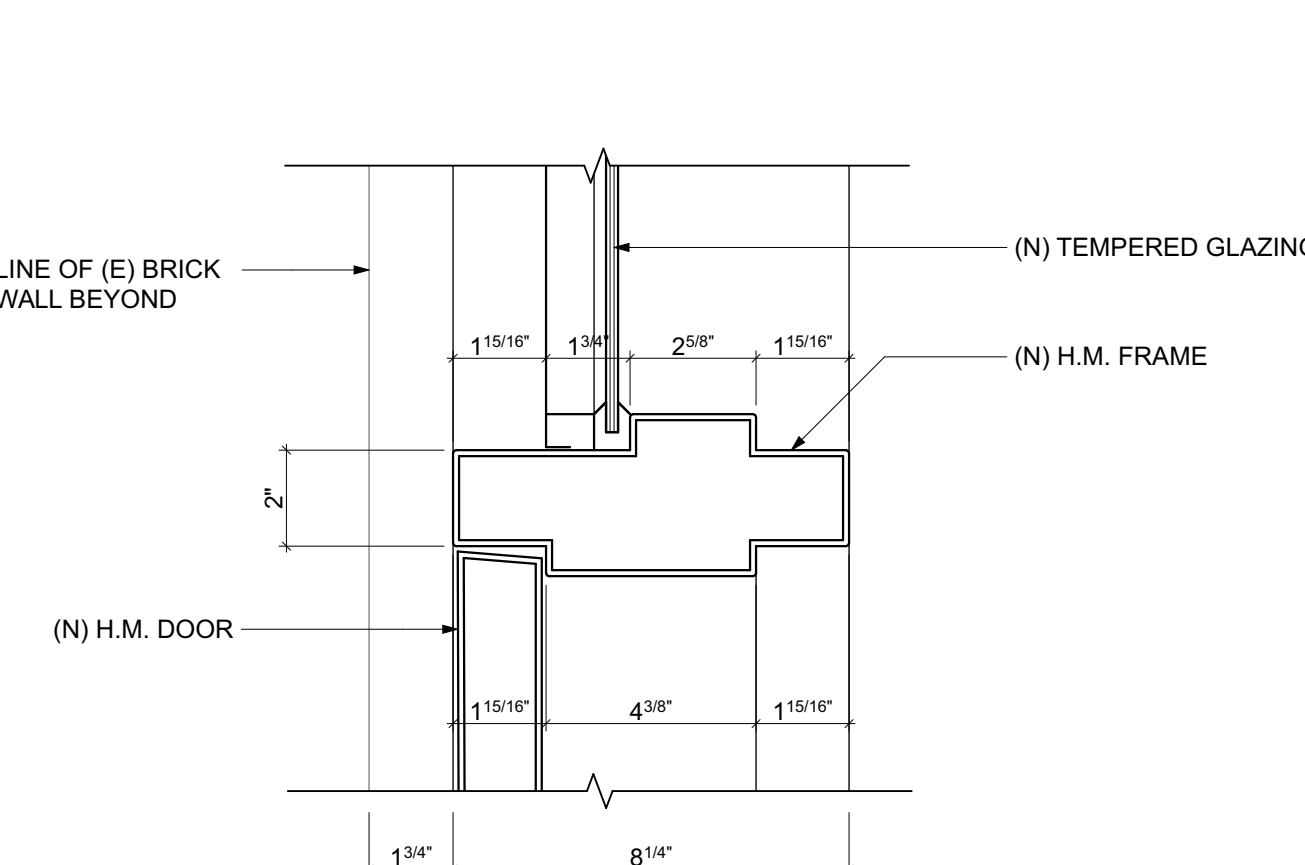
BOTTOM OF WALL AT NEW CURB
SCALE: 1 1/2\"/>

12



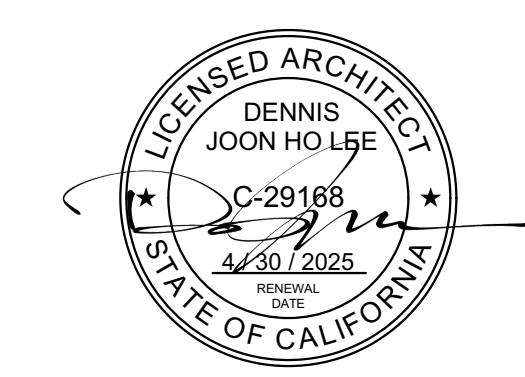
ALUM. WINDOW SILL
SCALE: 3\"/>

8



TRANSOM WINDOW / DOOR
SCALE: 3\"/>

4



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BLANDFORD ES KITCHEN MODERNIZATION

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REVISIONS

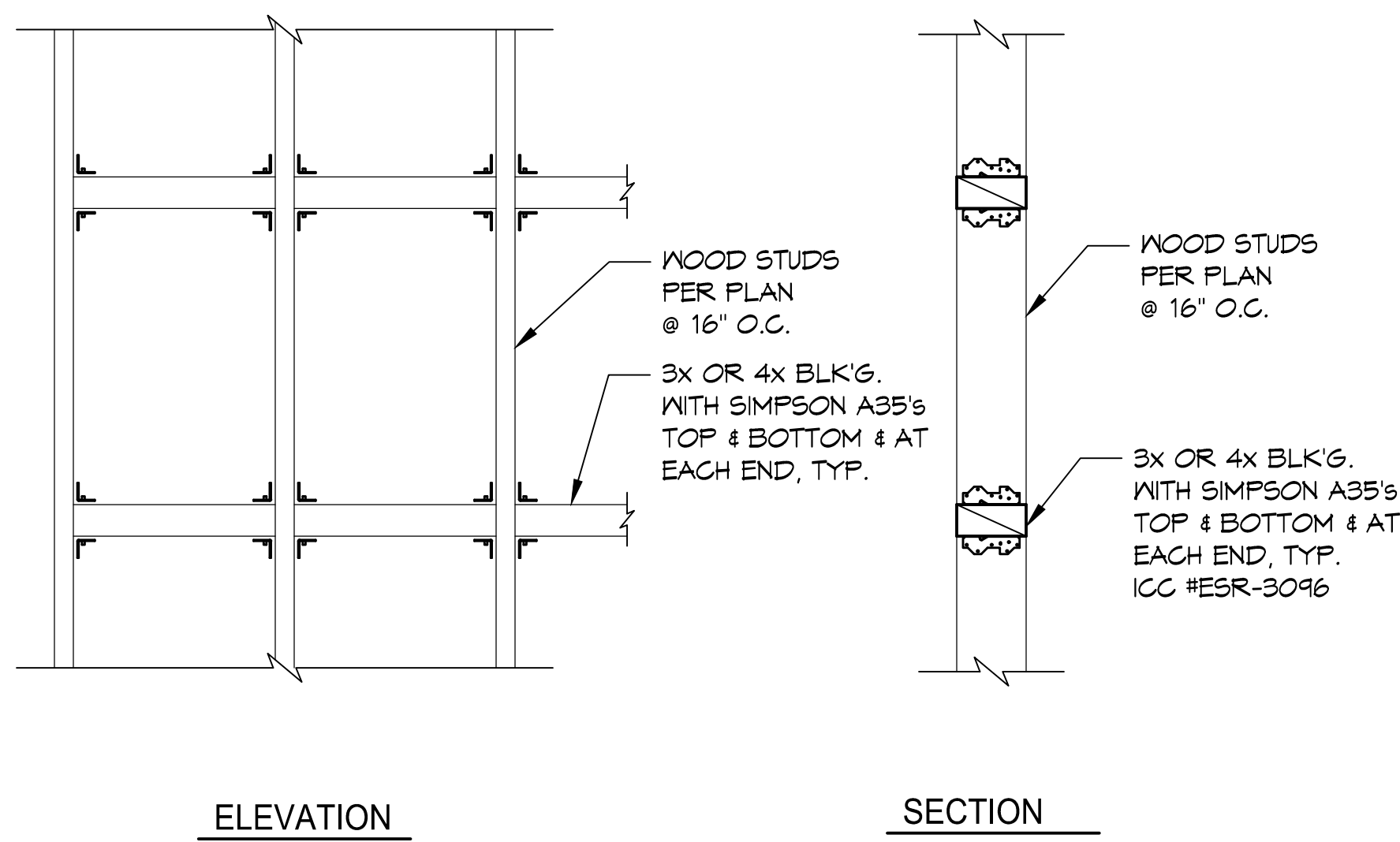
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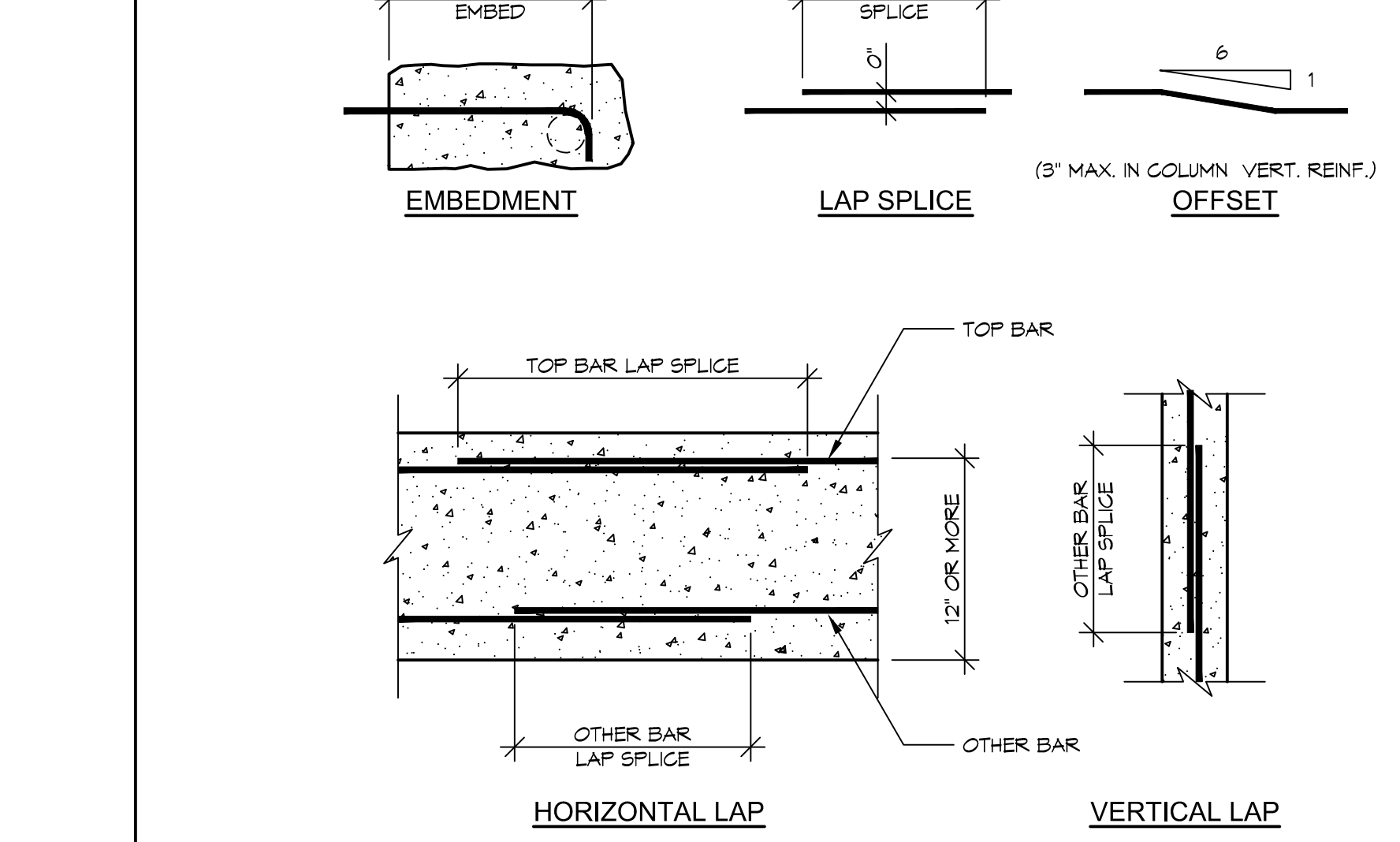
DETAILS

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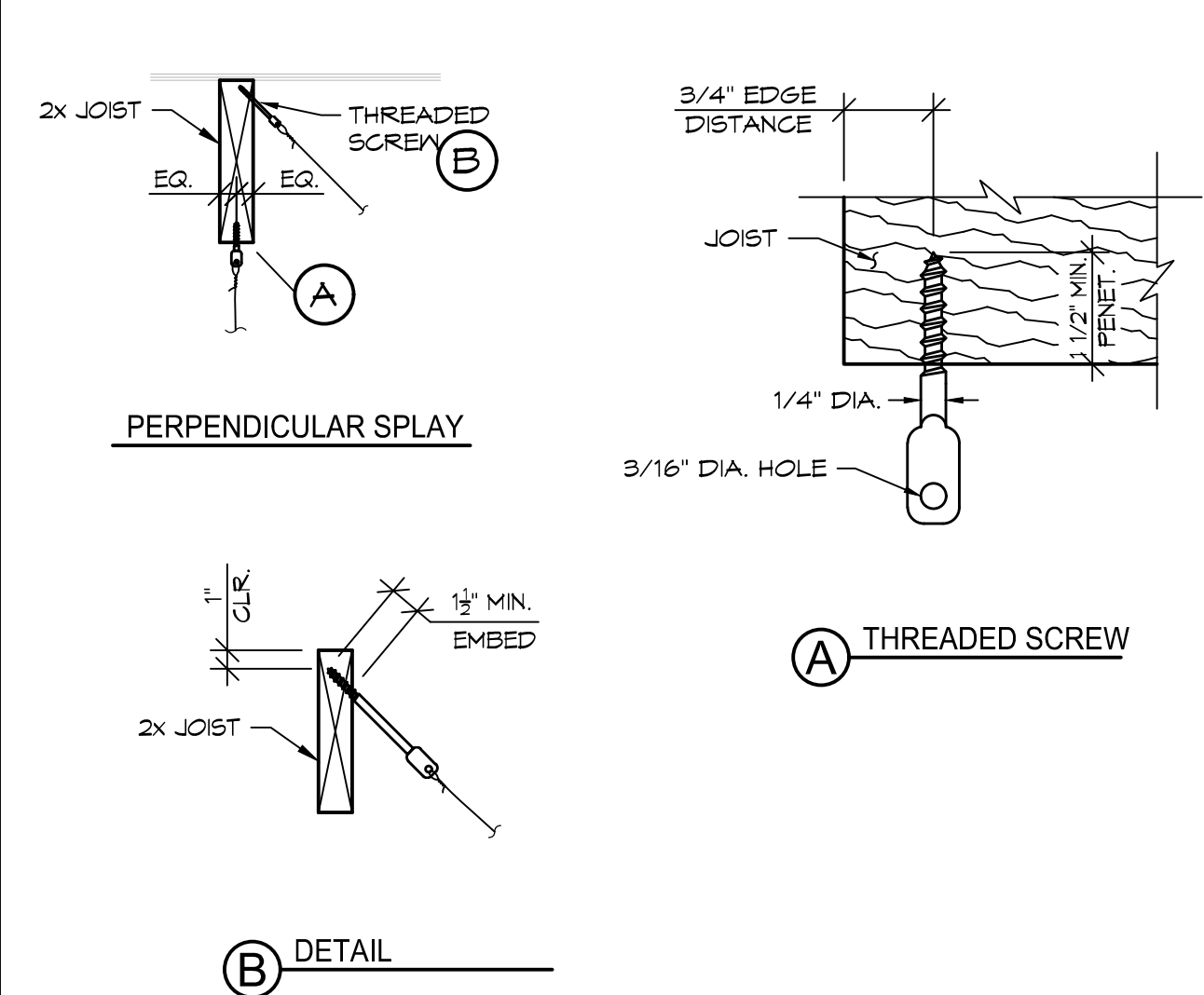
BLANDFORD ES KITCHEN MODERNIZATION - 23 - Blandford ES Kitchen Mod - Transoms - April 2, 2024 - 2:55 PM



TYPICAL WOOD BACKING DETAIL



TYPICAL REINFORCEMENT EMBED, LAP SPLICE AND OFFSET



CEILING WIRE ATTACHMENT

GENERAL NOTES:

- VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- COORDINATE STRUCTURAL DETAILS & DIMENSIONS WITH RELATED REQUIREMENTS ON OTHER DRAWINGS.
- THE ARCHITECT WILL INTERPRET THE INTENT OF THE DOCUMENTS IN CASE OF POSSIBLE CONFLICT OR DISCREPANCY BETWEEN STRUCTURAL AND OTHER DISCIPLINES.
- SHEETS & DETAILS NOTED AS "TYPICAL" OR "TYP." APPLY IN ALL CASES WHETHER OR NOT SPECIFICALLY REFERENCED.
- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF CALIFORNIA BUILDING CODE, 2022 EDITION.
- THE DEPTH, EXTENT, AND LOCATION OF ALL FLOOR DEPRESSIONS, ELEVATED AREAS, OR OTHER IRREGULARITIES SHALL BE COORDINATED WITH ARCHITECTURAL OR APPLICABLE DRAWINGS. THE STRUCTURAL DRAWINGS DO NOT NECESSARILY INDICATE ALL OF THESE ITEMS.
- STRUCTURAL PLANS INDICATE ONLY THE APPROXIMATE LOCATION OF MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT, AS WELL AS RELATED AUXILIARY FRAMING, ISOLATOR NECESSARY TO SUPPORT SUCH GEAR. THE FINAL POSITIONING OF THESE ITEMS IS DEPENDENT UPON THE EQUIPMENT SELECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK BETWEEN SUBCONTRACTORS AND CRAFTS IN THIS REGARD, AND PROVIDING NECESSARY DIMENSIONS IN A TIMELY MANNER TO ALL PARTIES AND DETAILERS INVOLVED.
- FOUNDATION DESIGN IS BASED ON CODE MINIMUM ALLOWABLE BEARING PRESSURE OF 1500 PSF AND LATERAL PRESSURE OF 100 PSF/FT. PER 2022 CBC, TABLE 1806A.2.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH NEAR OR EXISTING ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE APPROVAL OF THE ARCHITECT/ENGINEER.
- EPOXY SHEAR DOVELS IN SITE PLATWORK AND OTHER NON-STRUCTURAL CONCRETE SHALL BE EXEMPT FROM REQUIREMENTS FOR STRUCTURAL TESTS AND INSPECTIONS.

MATERIAL REQUIREMENTS:

CONCRETE: (CAST IN PLACE) $F_c = 3000$ PSI AT 28 DAYS NORMAL WEIGHT AGGREGATES TYPE II F_w/C RATIO = 0.45 MAX. FOR SLABS 0.50 FOR OTHER CONCRETE.

REINFORCING STEEL: ASTM A 615 GRADE 40 FOR #3; GRADE 60 FOR ALL OTHER SIZES

BOLTS: ASTM A307

ANCHOR BOLTS: ASTM A307 F1954 GRADE B36

PLYWOOD: U.S. PRODUCT STD. 1-1/4" STRUCTURAL 1 RATED SHEATHING, EXPOSURE 1

SAWN TIMBER: DOUGLAS FIR U.S.N. 1. JOISTS, RAFTERS, POSTS, BEAMS, STUDS, AND HEADERS: No. 1 2. PLATES, BLOCKS, LIGHT FRAMING AND MISC.: No. 2

NAILS: COMMON NAILS ANS/ASME STD. 518.6.1

WOOD SCREWS: SIMPSON CATALOG NO. C-2023

WOOD CONNECTIONS: ASTM A-36, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

MISC. STEEL: ASTM A653 GRADE 50 FOR 16 GAGE AND HEAVIER; A653 GRADE 50 FOR 18 GAGE AND LIGHTER.

LIGHT GAUGE STEEL: ASTM A653 GRADE 50 FOR 16 GAGE AND HEAVIER; A653 GRADE 50 FOR 18 GAGE AND LIGHTER.

STRUCTURAL DESIGN CRITERIA:

EXPANSION ANCHORS

FOR INSTALLATION INTO 2000 PSI CONCRETE. ALL EXPANSION ANCHORS MUST BE TESTED FOR THE VALUES BELOW. TORQUE VALUES FROM ICC-ESR# 4266.

DIAM.	TORQUE TEST VALUE
3/8"	30 FT-LB
1/2"	50 FT-LB
5/8"	40 FT-LB
3/4"	110 FT-LB

DESIGN LOADS: ROOF LL: 20.0 PSF, TYP. (REDUCIBLE)

WIND DESIGN DATA:

WIND CRITERIA: RISK CATEGORY = III BASIC WIND SPEED = 102 mph EXPOSURE = C SITE CLASS = D

EARTHQUAKE DESIGN DATA:

SEISMIC CRITERIA: SITE CLASS = D SEISMIC DESIGN CATEGORY = D $S_s = 1.87g$ $S_1 = 0.65g$ $S_{MS} = 2.44g$ $S_{M1} = N/A$ $S_{M2} = 1.44g$ $S_{M3} = N/A$ SEISMIC IMPORTANCE FACTOR, $I_e = 1.25$

DSA APPROVAL STAMP

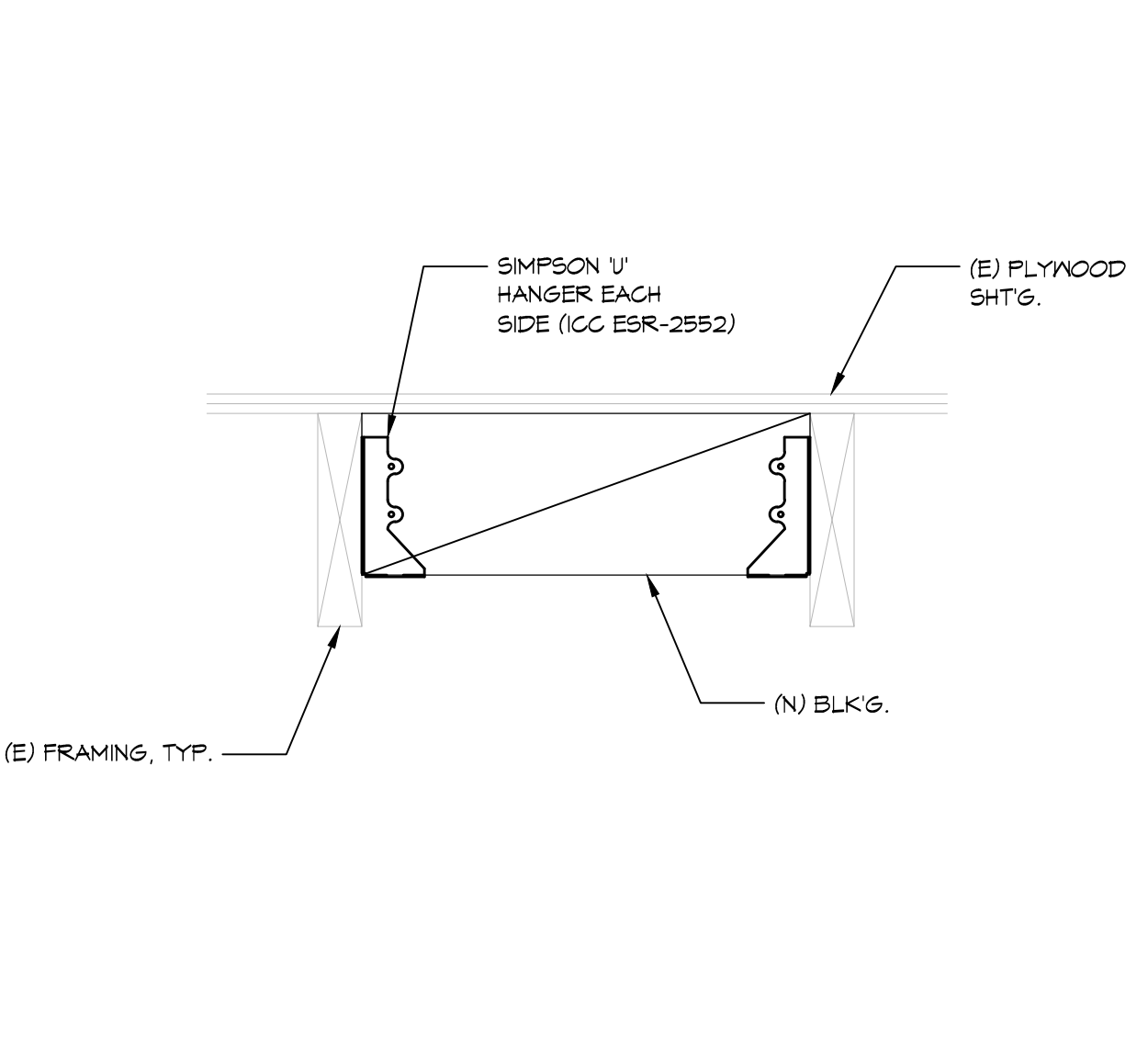
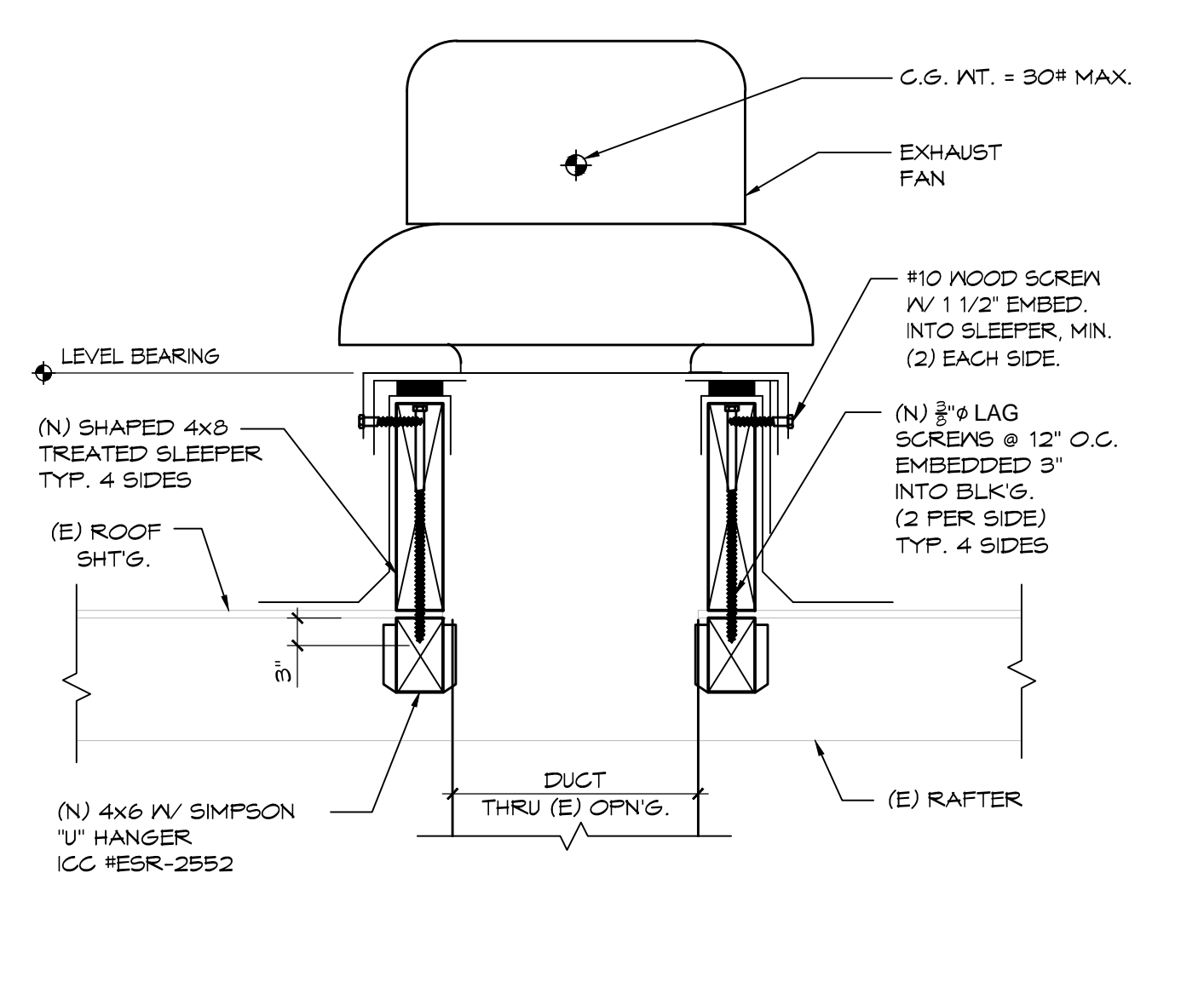
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124069 INC.
REVIEWED FOR
SS FLS ACS
DATE: 05/24/2024

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HOHBACH-LEWIN, INC.
STRUCTURAL ENGINEERS
511 Main Street
South Pasadena, CA 91030
(626) 441-1211

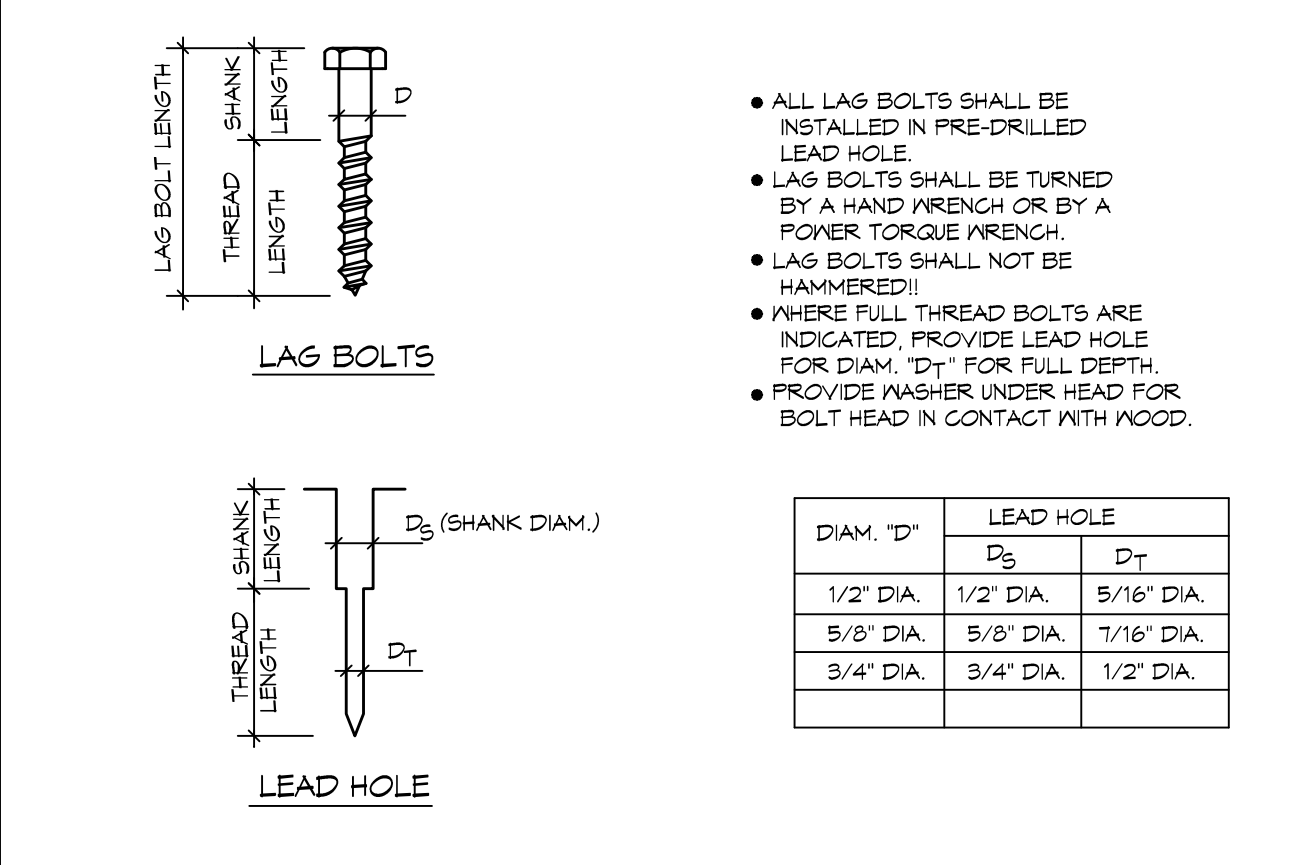
PROFESSIONAL SEAL
DENNIS J. LEE
No. 293168
Exp. 03-31-2025
STATE OF CALIFORNIA

REGISTERED ARCHITECT
DENNIS J. LEE
No. C-293168
Exp. 03/31/2025
STATE OF CALIFORNIA



EXHAUST FAN ANCHORAGE

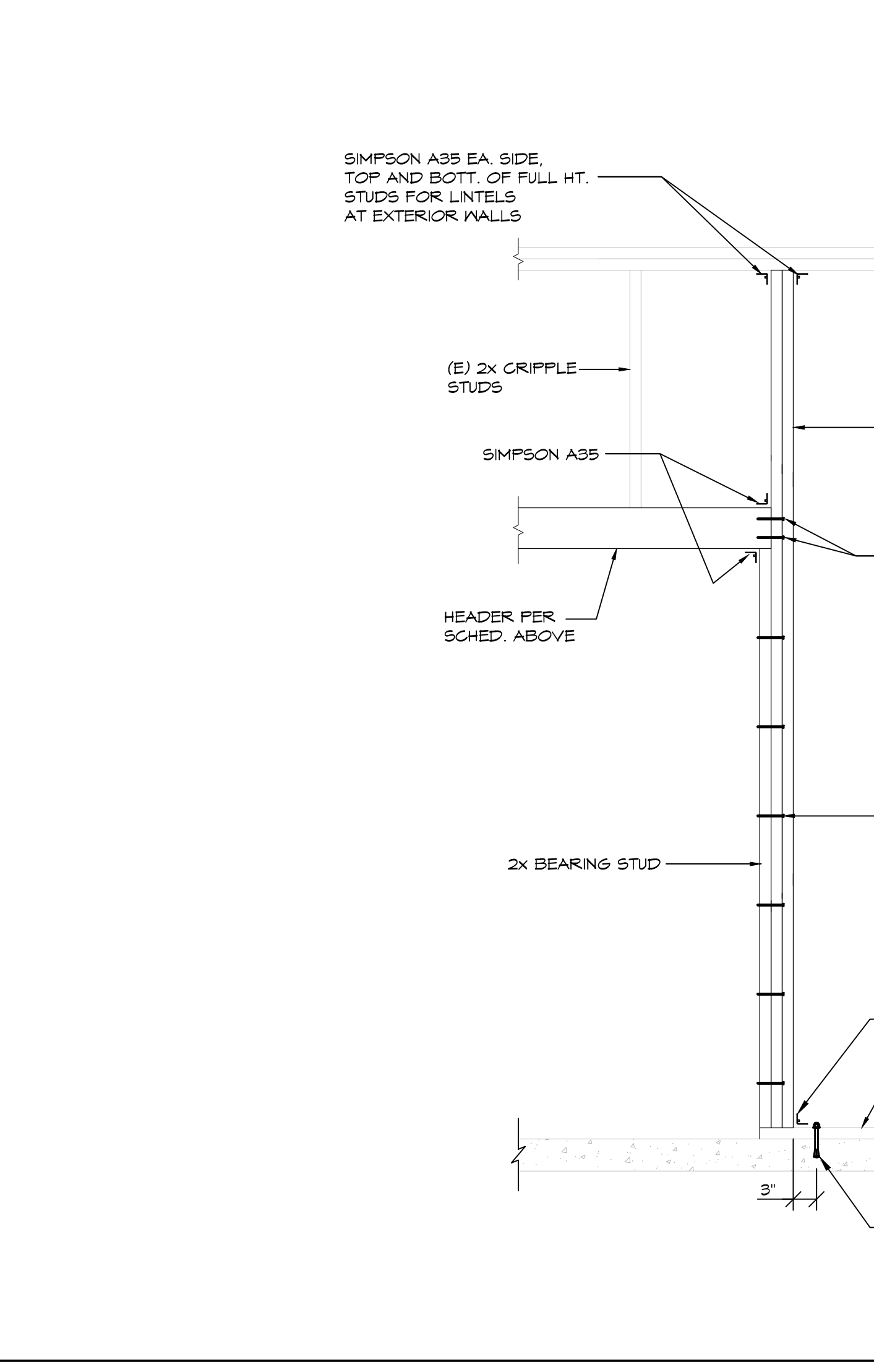
WOOD BLOCKING DETAIL



LAG BOLT INSTALLATION

LINTEL OPENING

MAXIMUM ROUGH OPENING	LINTEL SIZE		KING STUD	
	4" WALL	6" WALL	4" EXT.	6" EXT.
UP TO 4'-0"	4x4	6x4	(2) 2x4	(2) 2x6
4'-1" TO 6'-0"	4x6	6x6	(2) 2x4	(2) 2x6
6'-1" TO 8'-0"	4x8	6x8	4x4	(2) 2x6
8'-1" TO 10'-0"	4x10	6x10	-	4x6
10'-1" TO 12'-0"	4x12	6x12	-	6x6



OPENING IN EXISTING NON-BEARING STUD WALL DETAIL

CONCRETE "HIT-HY 200 V3" (ICC #ESR-486B)

ROD SIZE	BAR SIZE	DRILL BIT DIAMETER	MINIMUM DEPTH	PULL TEST
1/2"	#3	3/4"	3"	4400#
5/8"	#4	5/8"	4"	5500#
3/4"	#5	3/4"	5"	6600#

MASONRY "HIT-HY 210" (ICC #ESR-4143)

ROD SIZE	BAR SIZE	DRILL BIT DIAMETER	MINIMUM DEPTH	PULL TEST
1/2"	#3	3/4"	3 1/2"	1800#
5/8"	#4	5/8"	4 1/2"	2100#
3/4"	#5	3/4"	5 1/2"	2600#

EPOXY GROUT DETAIL

GENERAL NOTES AND MATERIAL REQUIREMENTS

MATERIALS

CONCRETE

EARTH

CONTINUOUS WOOD MEMBER

WOOD BLOCKING

MECH. EQUIPMENT #

MAX. OP. WT. INCL. CURB

SYMBOLS

NUMBER REF. DETAIL OR SECTION SHEET REF.

FINISH ELEVATION

ABBREVIATIONS

ARCH'L. ARCHITECTURAL

BLK'G. BLOCKING

CONT. CONTINUOUS

CONG. CONCRETE

DR. DETAIL

DIM. DIMENSION

DWG. DRAWING

EA. EACH

FIN. FINISH

FLOOR FLOOR

FS. FAR SIDE

GA. GAGE

MAX. MAXIMUM

MECH. MECHANICAL

MIN. MINIMUM

NS. NEAR SIDE

O.C. ON CENTER

O.H. OPPOSITE HAND

OPNG. OPENING

SHTS. SHEATHING

SH. SIMILAR

SYMM. SYMMETRY

TYP. TYPICAL

W.P. WELDING POINT

UNLESS NOTED OTHERWISE

(E) INDICATES EXISTING CONSTRUCTION.

(N) INDICATES NEW CONSTRUCTION.

GENERAL NOTES AND MATERIAL REQUIREMENTS

REINFORCING BAR SPLICE SCHEDULE (INCHES)

BAR SIZE	BAR LOCATION	F_c (NORMAL WEIGHT CONCRETE), psi		
		2800	3000	3500
#3	TOP	20	20	20
	OTHER	16	16	16
#4	TOP	41	37	34
	OTHER	31	29	26
#5	TOP	51	46	43
	OTHER	39	36	33
#6	TOP	61	56	51
	OTHER	47	43	40
#7	TOP	69	62	56
	OTHER	53	49	45
#8	TOP	79	71	64
	OTHER	61	56	51
#9	TOP	114	104	96
	OTHER	85	80	74
#10	TOP	127	116	107
	OTHER	98	91	82
#11	TOP	138	127	119
	OTHER	107	98	91

NOTES:

- TOP REINFORCEMENT IS DEFINED AS HORIZONTAL REINFORCEMENT WHERE MORE THAN 12 IN. OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.
- ABOVE SCHEDULE IS BASED ON ACI 318 BUILDING CODE, 2019 EDITION.
- CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED SHALL NOT BE LESS THAN 2 BAR DIAMETER.
- CLEAR COVER SHALL NOT BE LESS THAN 1 BAR DIAMETER.

REBAR SPLICE (NORMAL WEIGHT CONCRETE)

GENERAL NOTES AND MATERIAL REQUIREMENTS

REBAR SPLICE (NORMAL WEIGHT CONCRETE)

STRUCTURAL GRAPHIC LEGEND

STRUCTURAL SHEET INDEX

S1.1 GENERAL NOTES AND TYPICAL DETAILS

S1.2 TYPICAL LIGHT GAUGE DETAILS

S1.3 SECTIONS AND DETAILS

S2.1 FOUNDATION AND ROOF FRAMING PLANS

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTED/REVISIONS:

NO.	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	9/19/2023
2	DESIGN DEVELOPMENT	12/4/2023

PROJECT NO: 202310

SCALE: AS SHOWN

DATE: 12/4/2023

DRAWN BY: HAV

CHECKED BY: CAC

SHEET TITLE:

GENERAL NOTES & TYPICAL DETAILS

ARCHITECT

CO-AR DESIGN, INC.
680 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186

Dennis J. Lee, NCARB dennis@coar-design.com

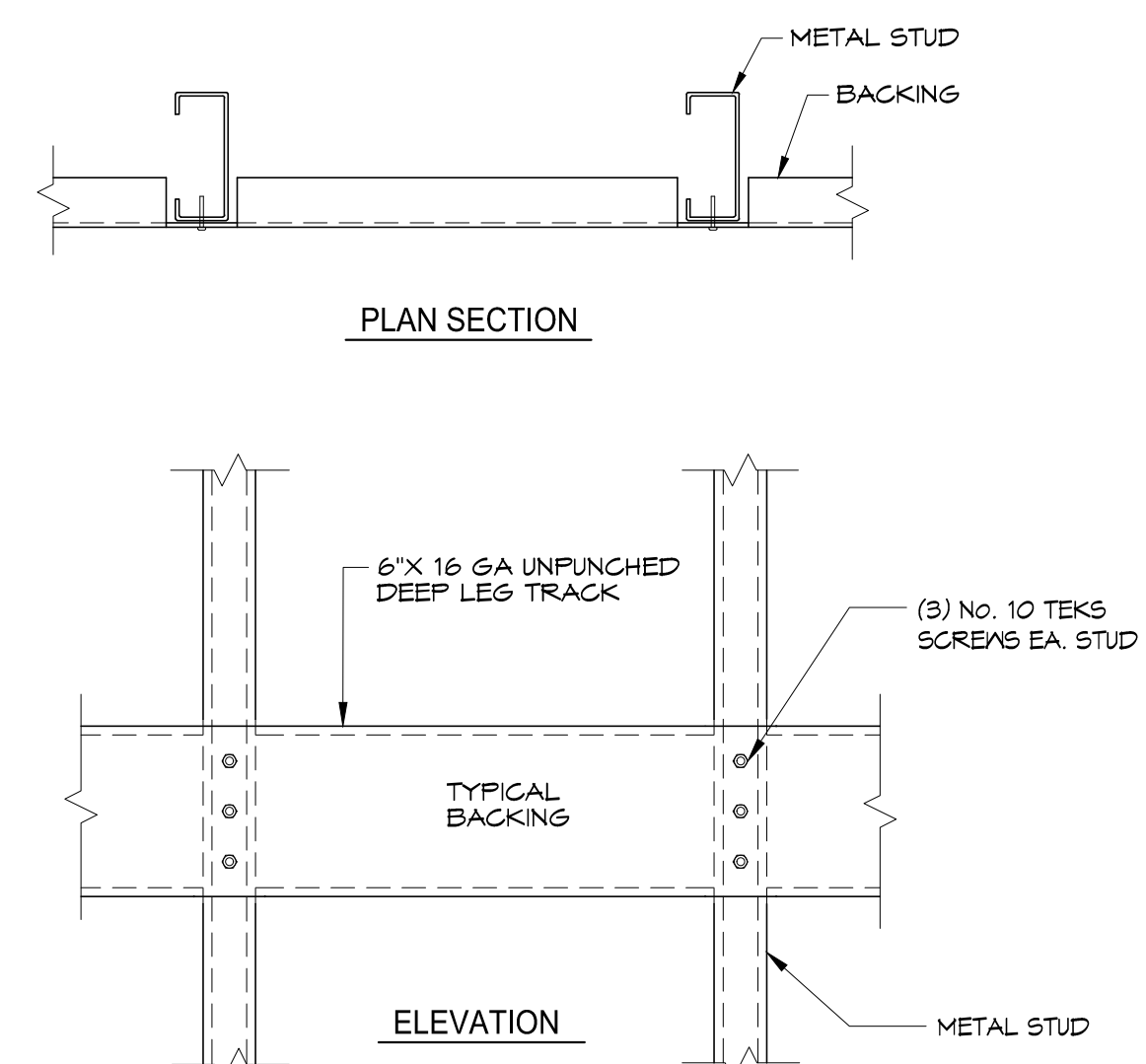
PROJECT

ROWLAND UNIFIED SCHOOL DISTRICT

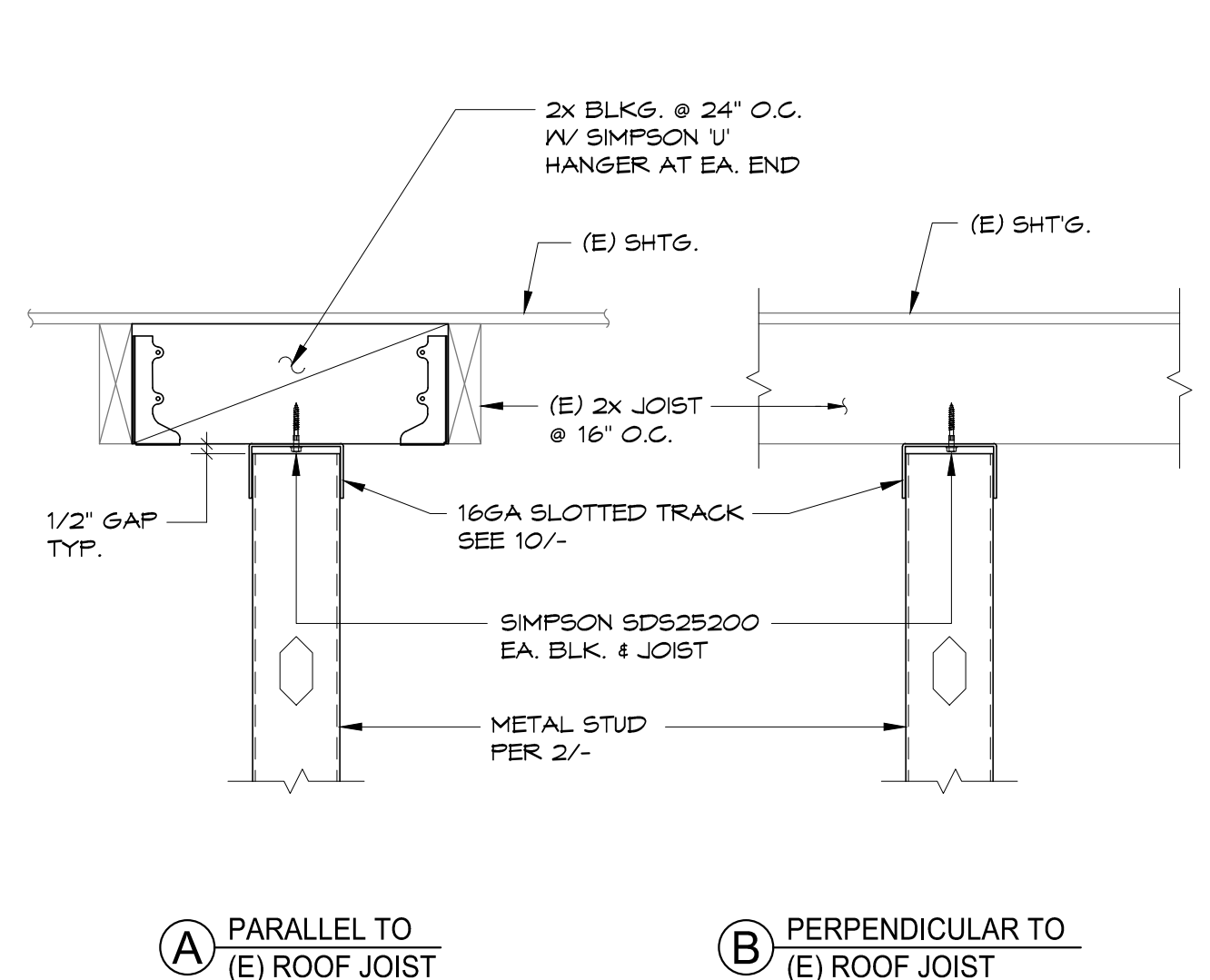
BLANDFORD ES KITCHEN MODERNIZATION

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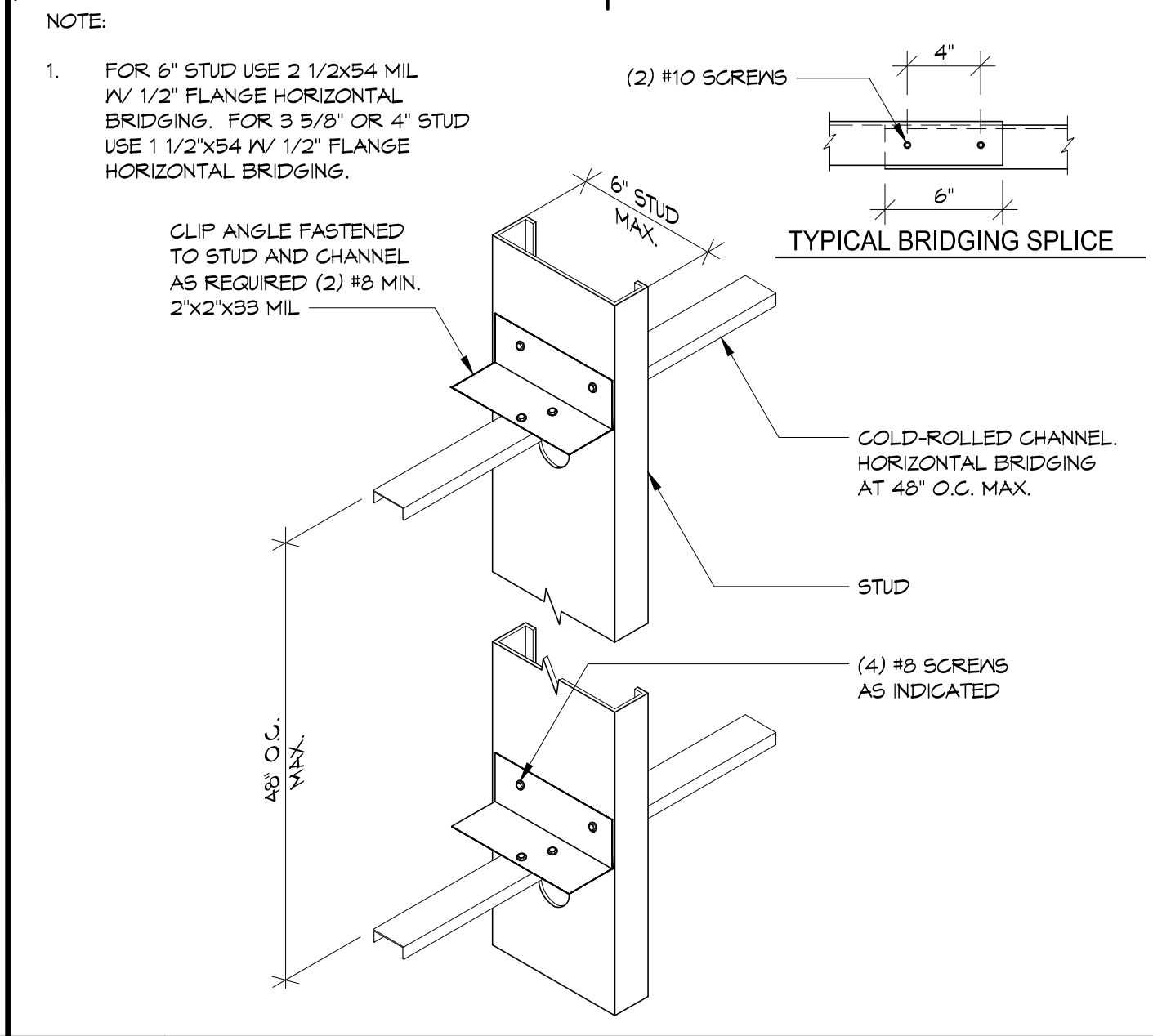
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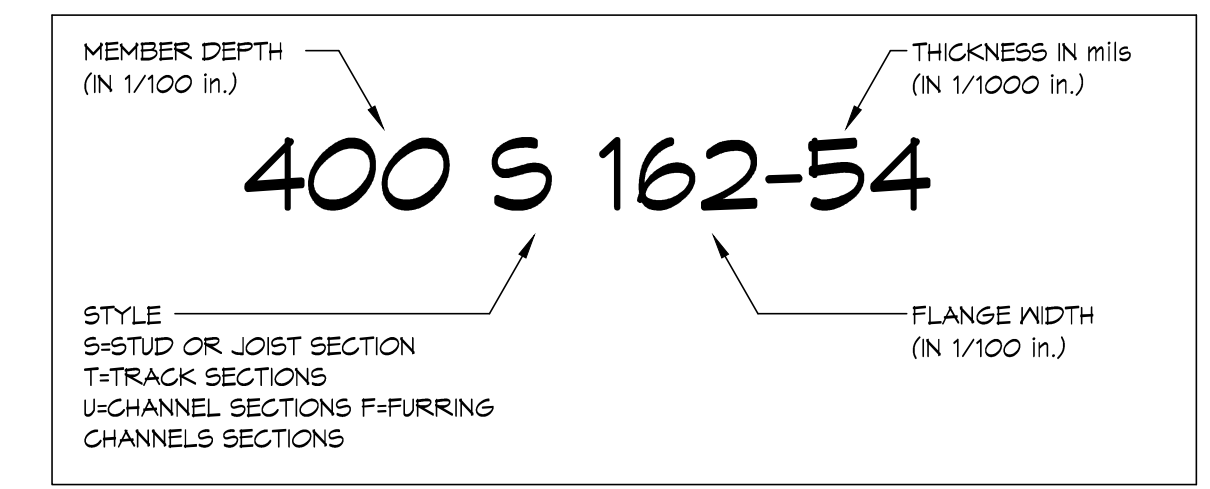
13 TYPICAL BACKING DETAIL



9 PARTITION ANCHORAGE TO (E) FRAMING

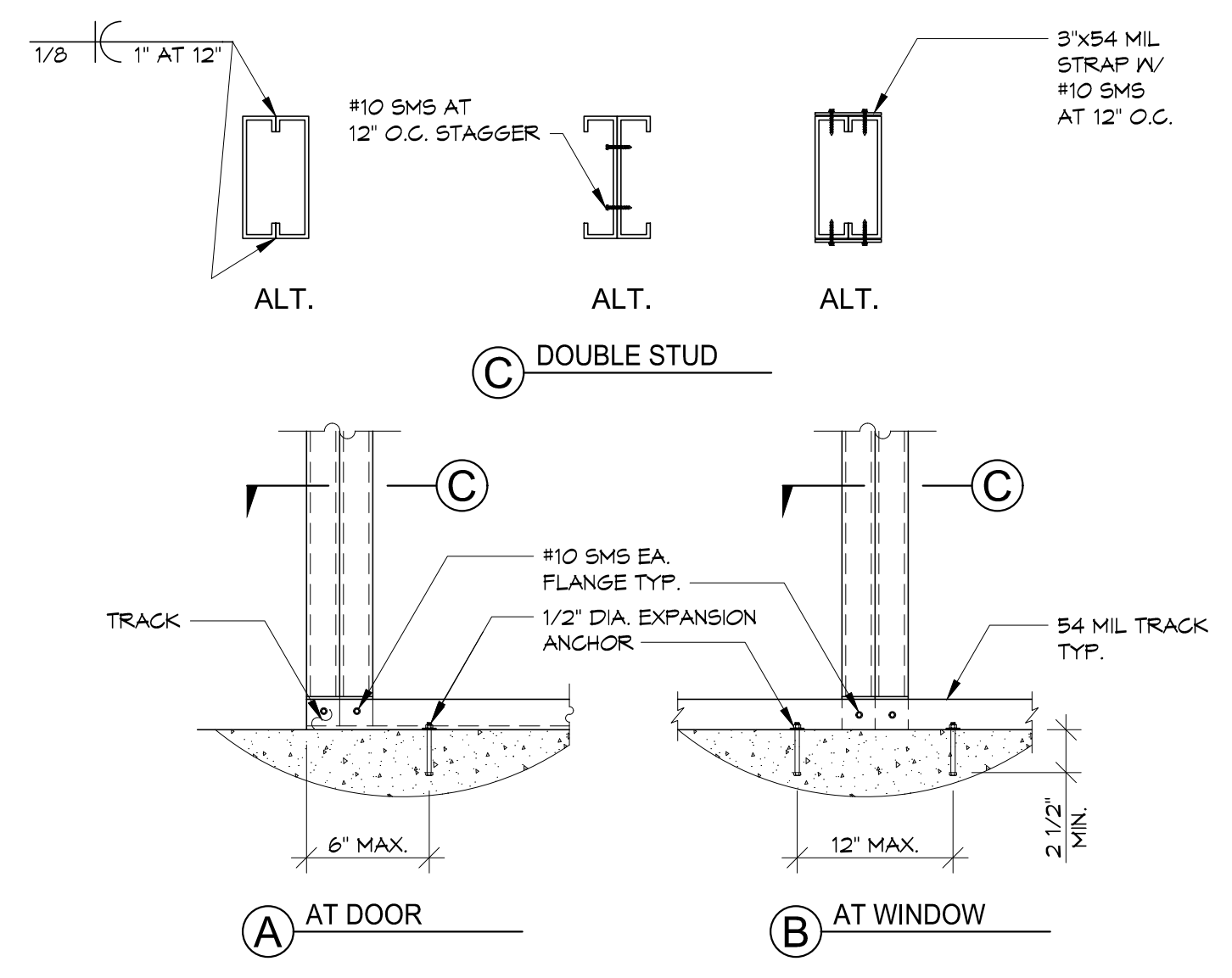


5 TYPICAL BRIDGING

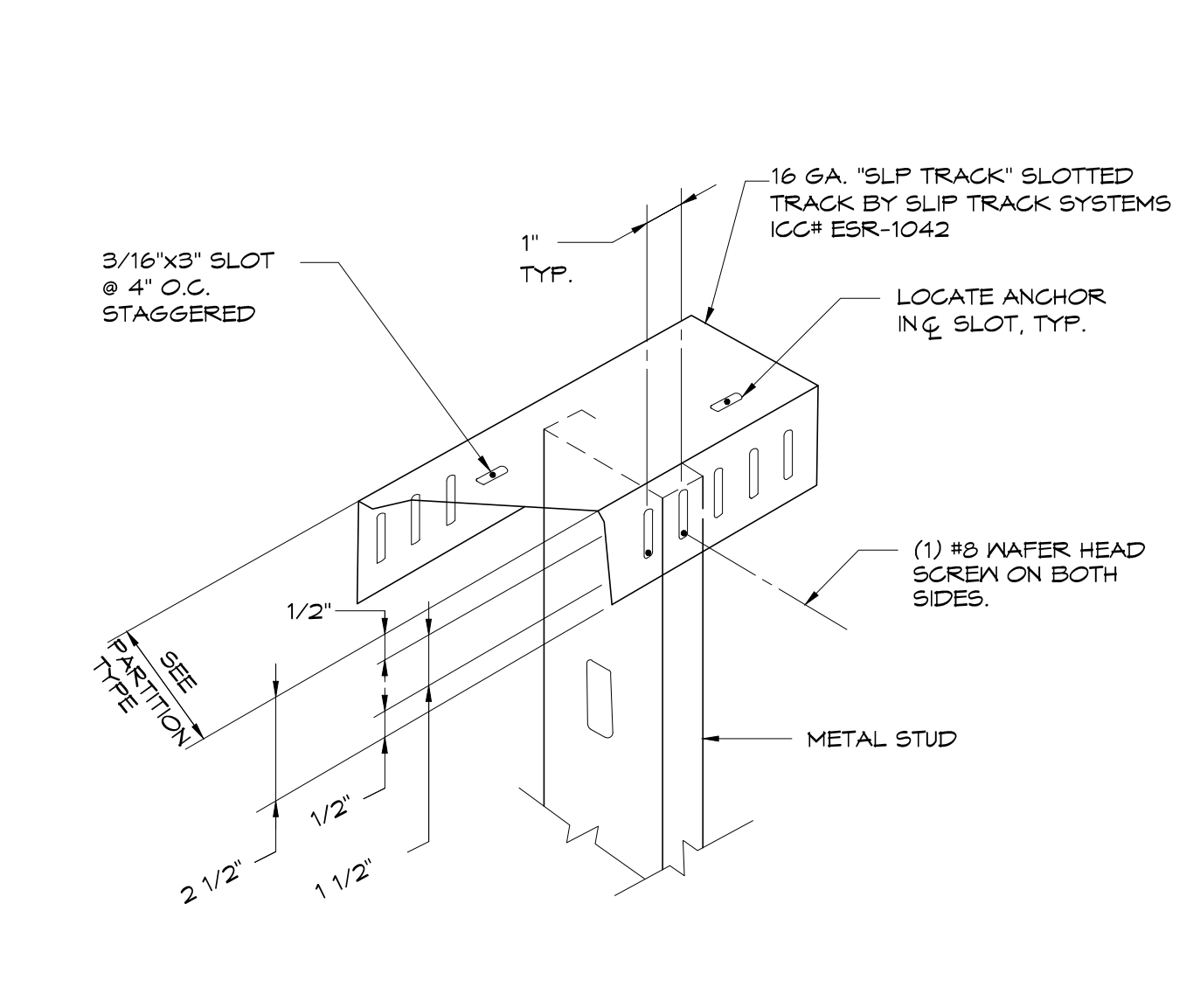


MINIMUM DELIVERABLE THICKNESS (MILS)	GAUGE	DESIGN THICKNESS (INCHES)
18	25	.0188
27	22	.0288
33	20	.0346
43	18	.0451
54	16	.0566
66	14	.0713
91	12	.1011

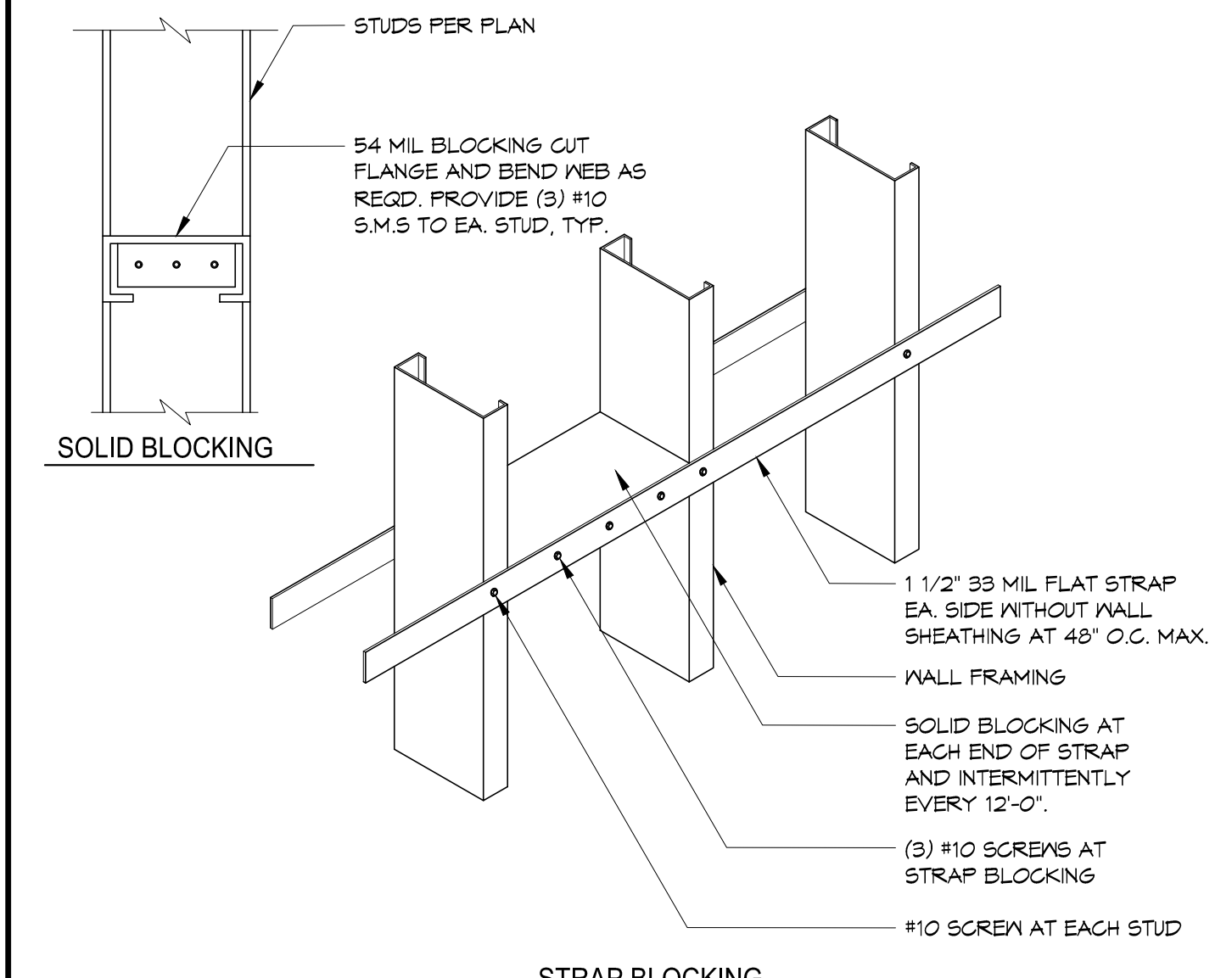
1 TYPICAL LIGHT GAUGE STUD DESIGNATIONS



14 TYPICAL DOUBLE STUD JAMB BASE SIMILAR AT TOP



10 SLOTTED TRACK DETAIL



6 TYPICAL STUD BLOCKING

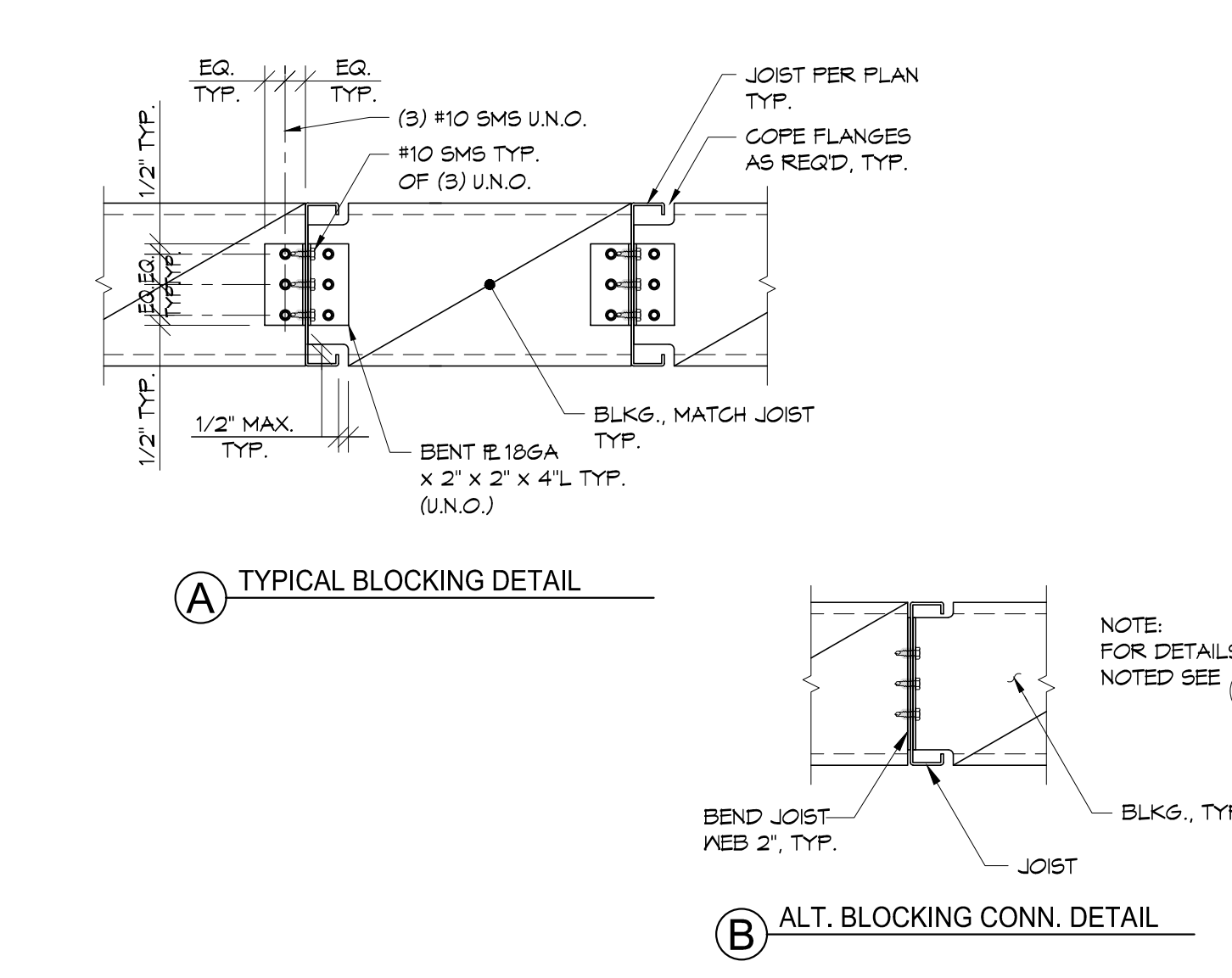
EXTERIOR WALL STUD - NON BEARING PARTITION

WALL HEIGHT	STUD SECTION	SPACINGS
≤ 16'	600S162-43	16\"/>
16'-20'	800S162-43	16\"/>
20'-24'	800S200-54	16\"/>

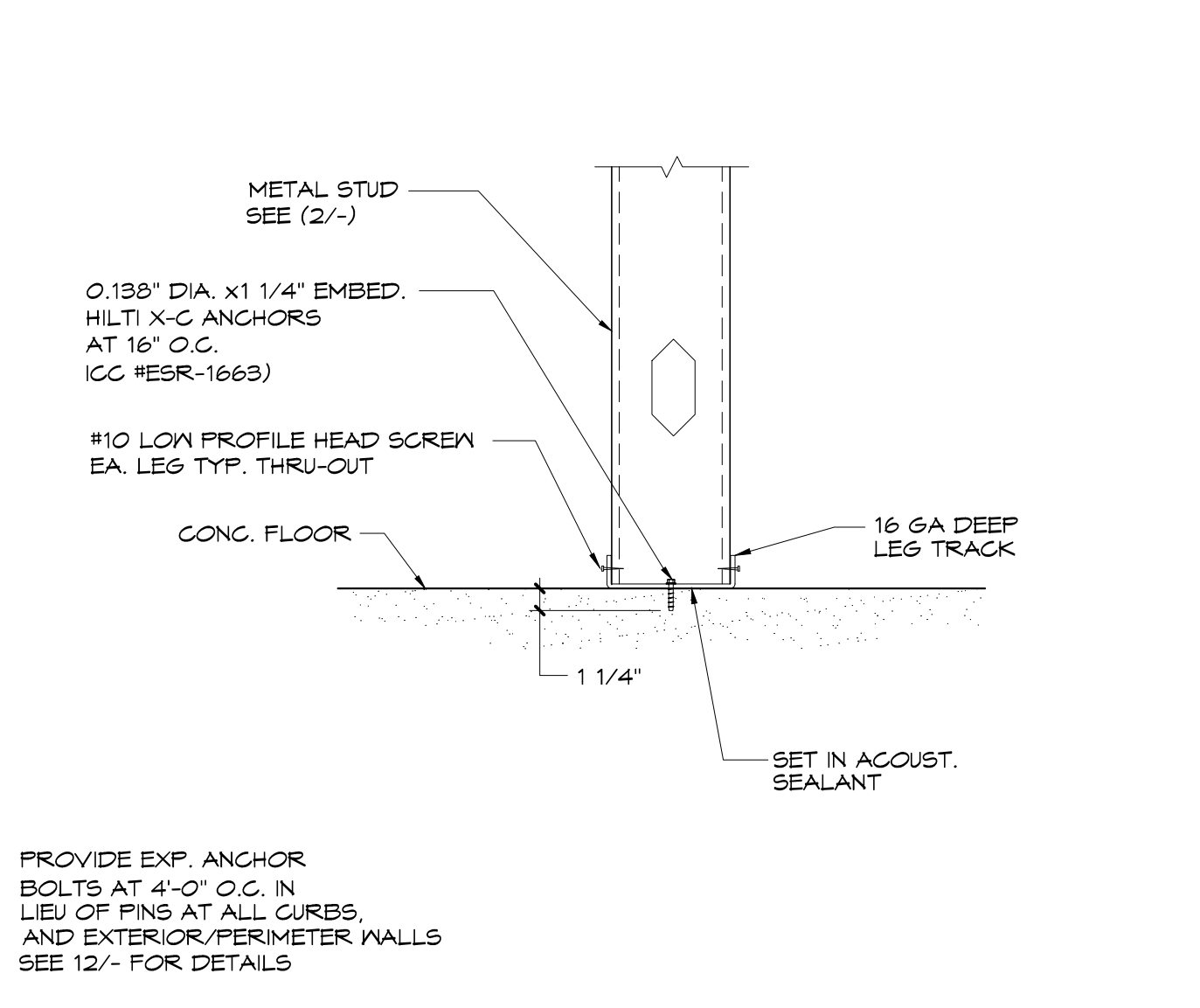
INTERIOR WALL STUD - NON BEARING PARTITION

WALL HEIGHT	STUD SECTION	SPACINGS
≤ 14'	350S162-33	16\"/>
≤ 18'	400S162-43	16\"/>
≤ 24'	600S162-43	16\"/>

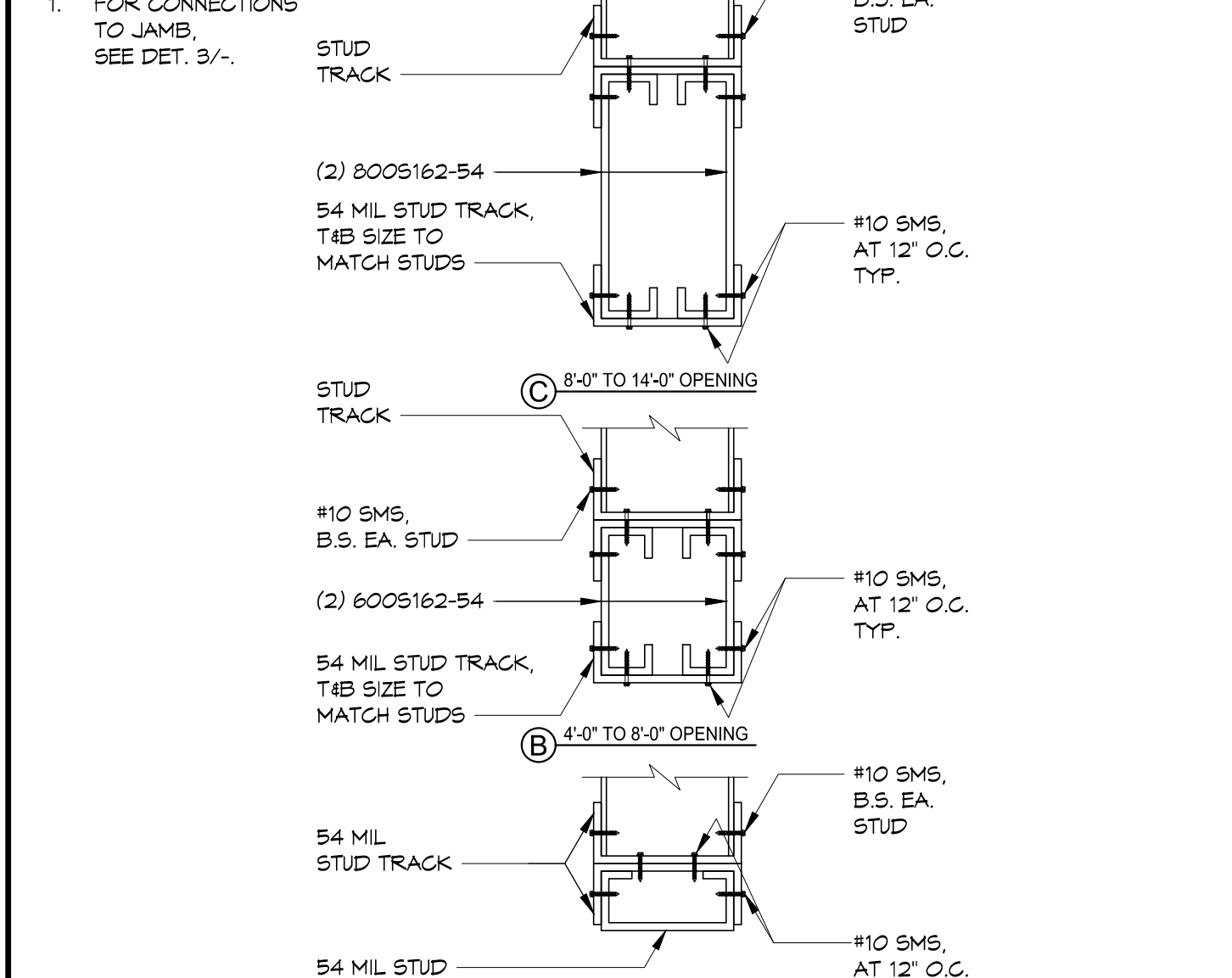
2 STUD SCHEDULE - NON BEARING



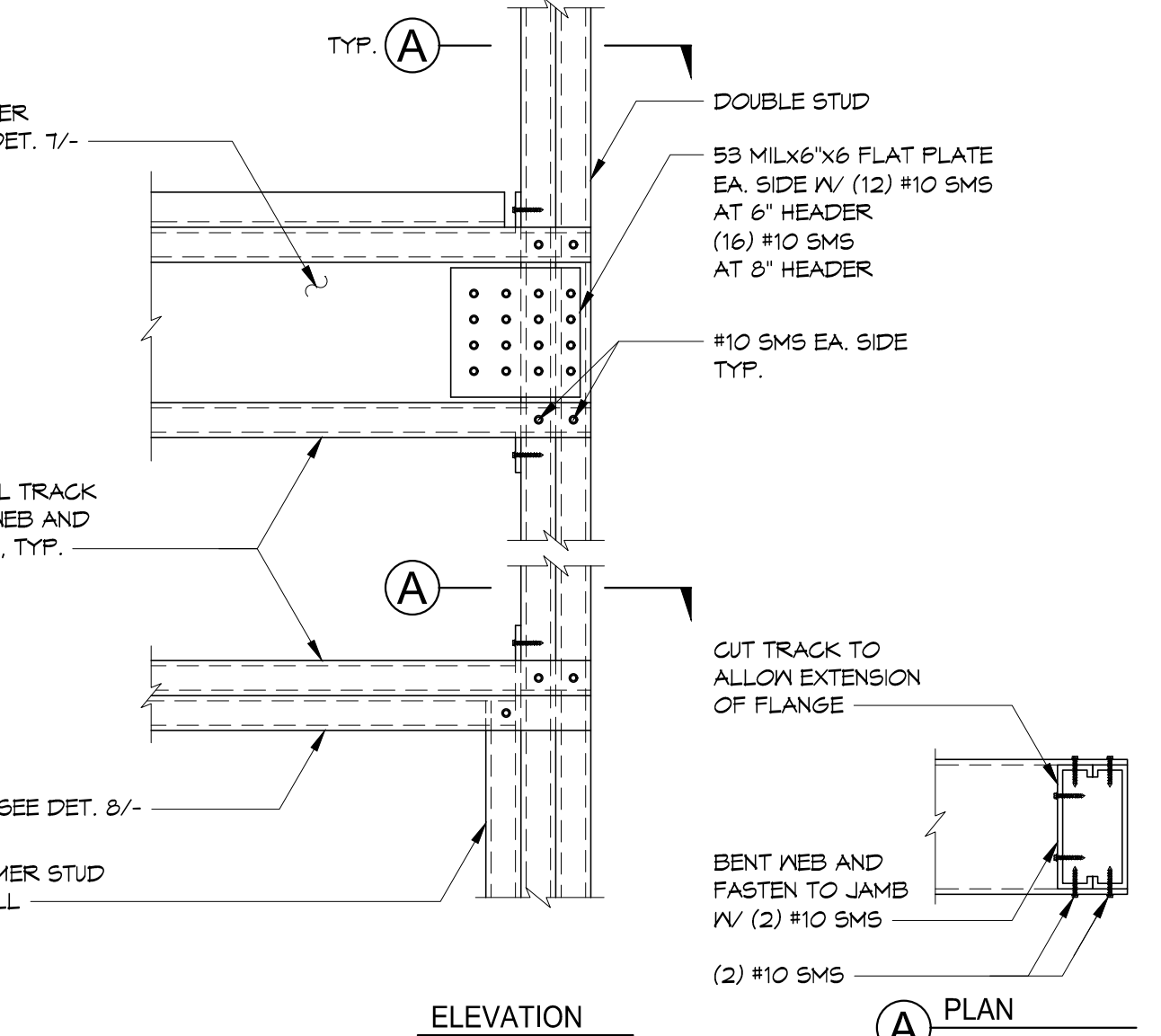
15 TYPICAL BLOCKING



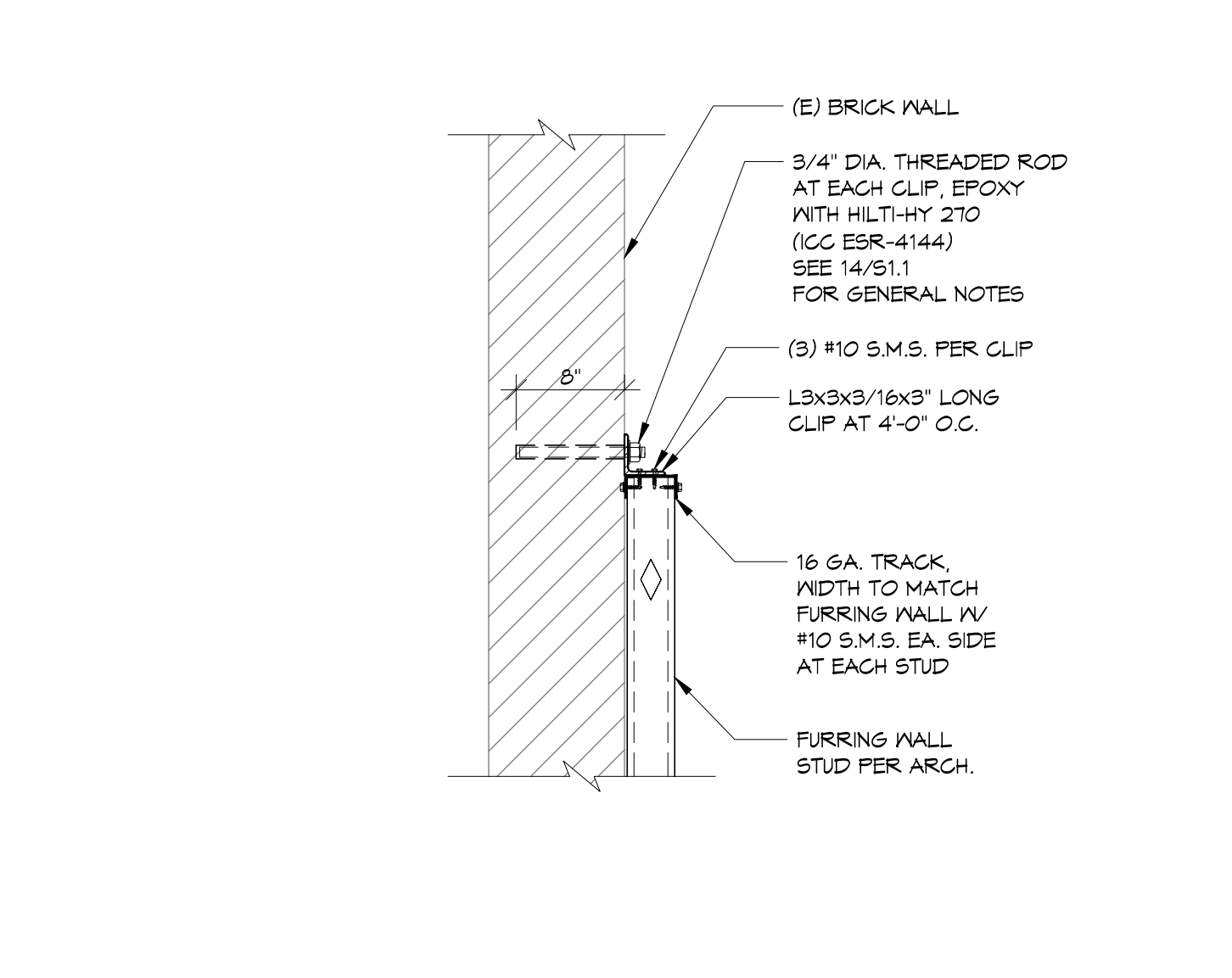
11 PARTITION ANCHORAGE



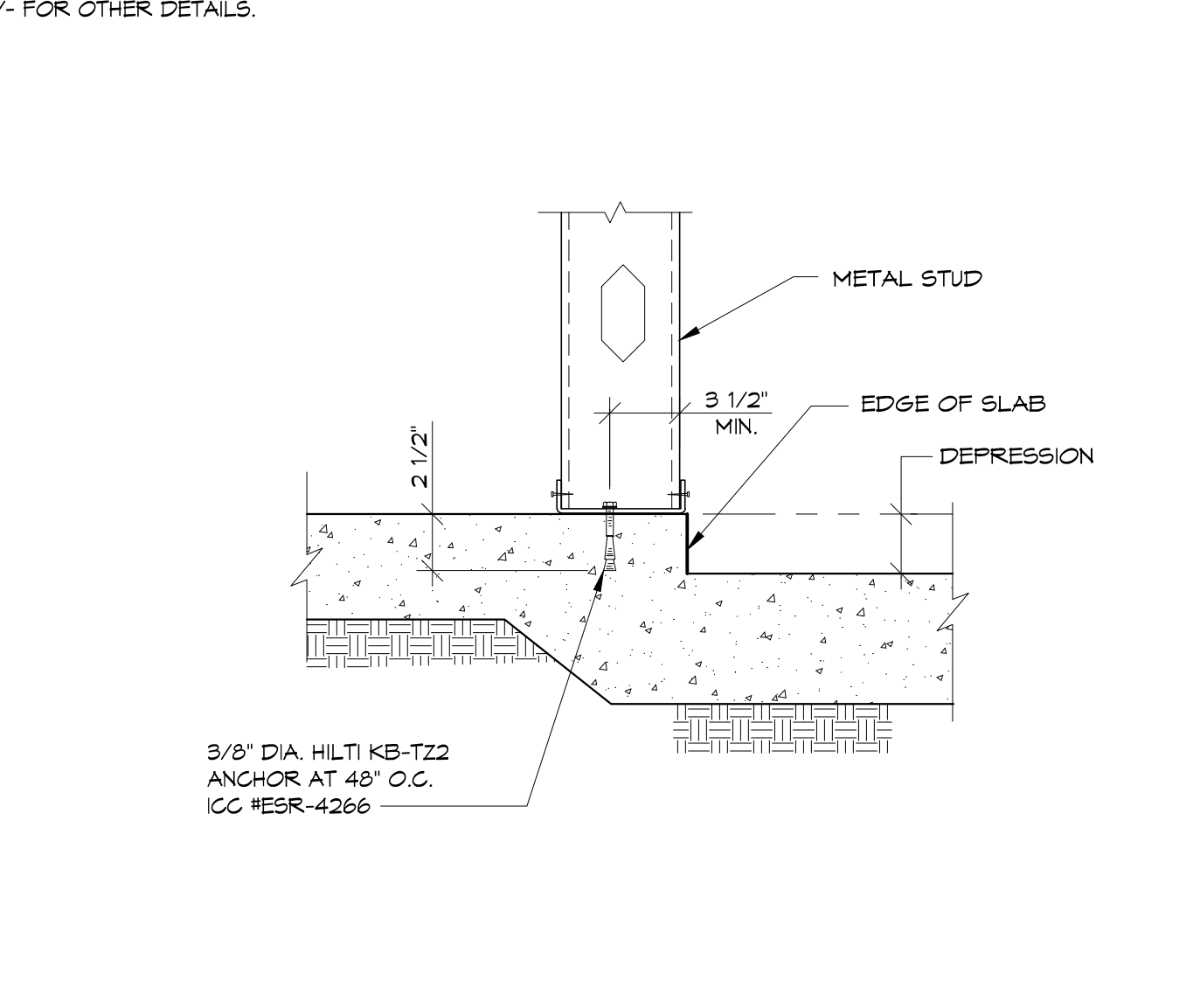
7 TYPICAL HEADER SCHEDULE



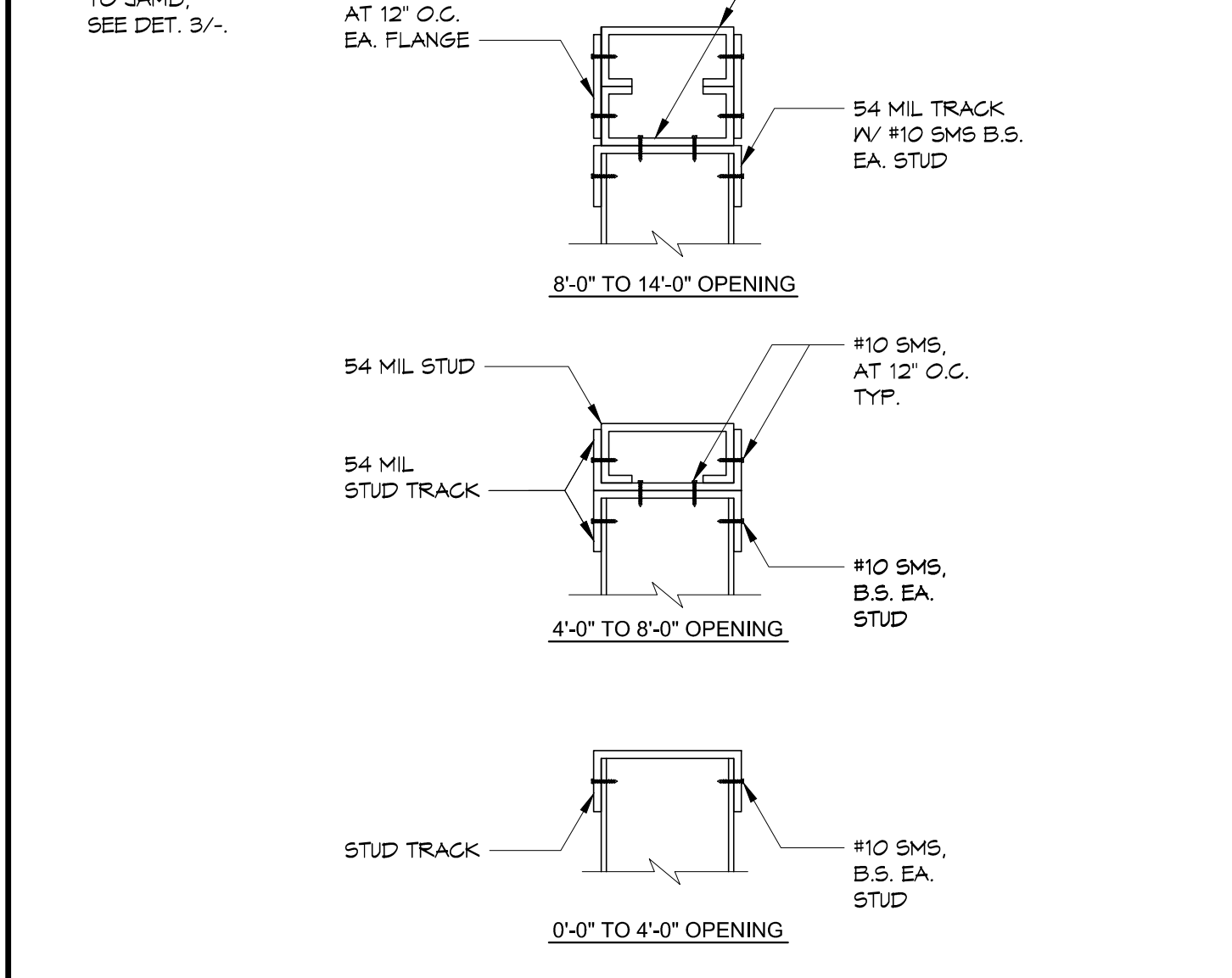
3 TYPICAL HEAD AND SILL DETAILS AT JAMB NON BEARING WALL



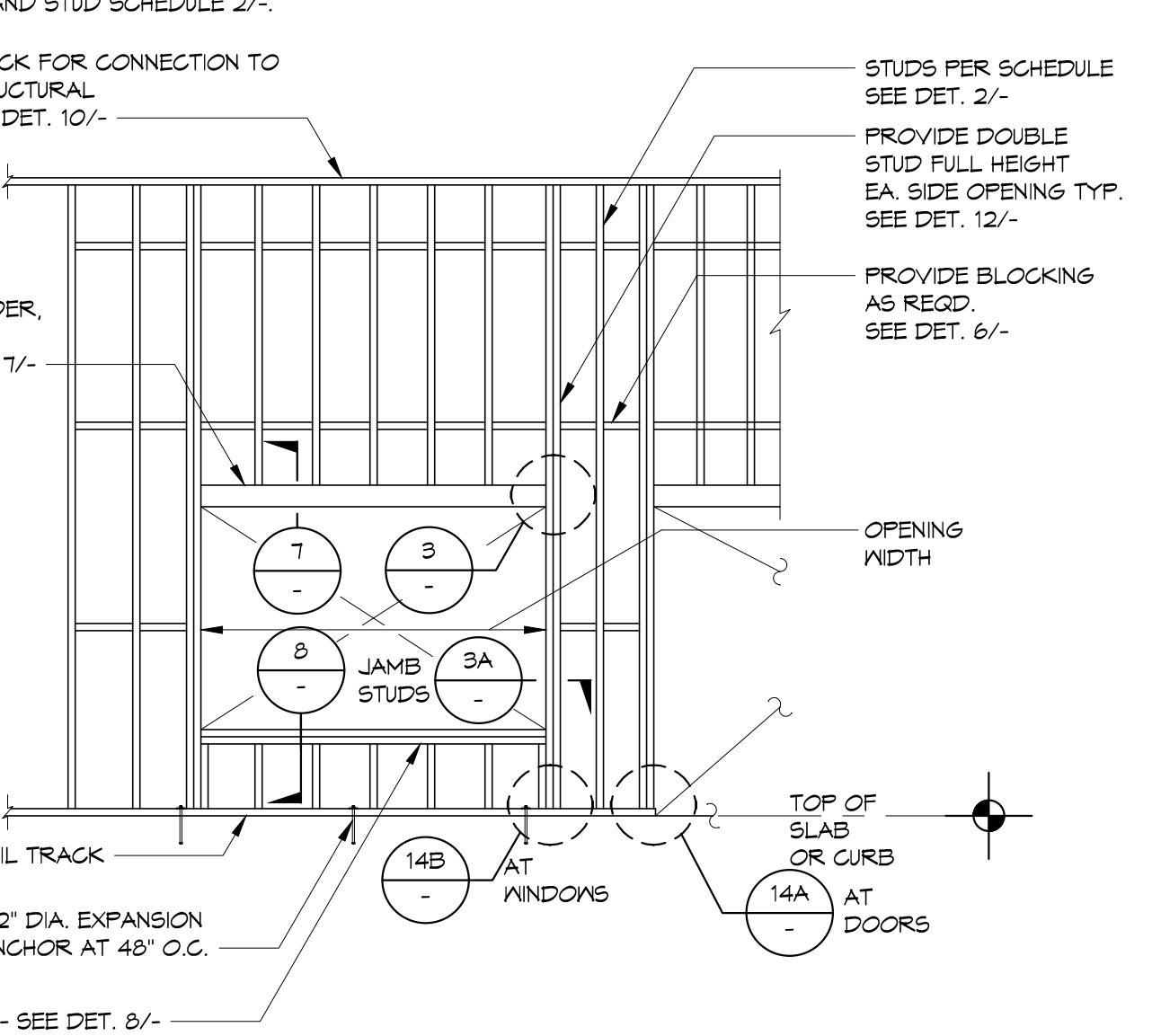
16 TOP OF FURRING WALL TO BRICK WALL DETAIL



12 PARTITION ANCH. AT DEPRESSION



8 TYPICAL SILL SCHEDULE



4 TYPICAL LIGHT GAUGE STUD WALL FRAMING - NON BEARING

HOBAACH-LEWIN, INC. ARCHITECTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124069 INC.
REVIEWED FOR
DATE: 05/24/2024

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PROFESSIONAL ARCHITECT
DENNIS J. LEE, NCCARB
Exp. 03-31-2025
STATE OF CALIFORNIA

HOBAACH-LEWIN, INC.
580 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186
DENNIS J. LEE, NCCARB
dennis@coar.design

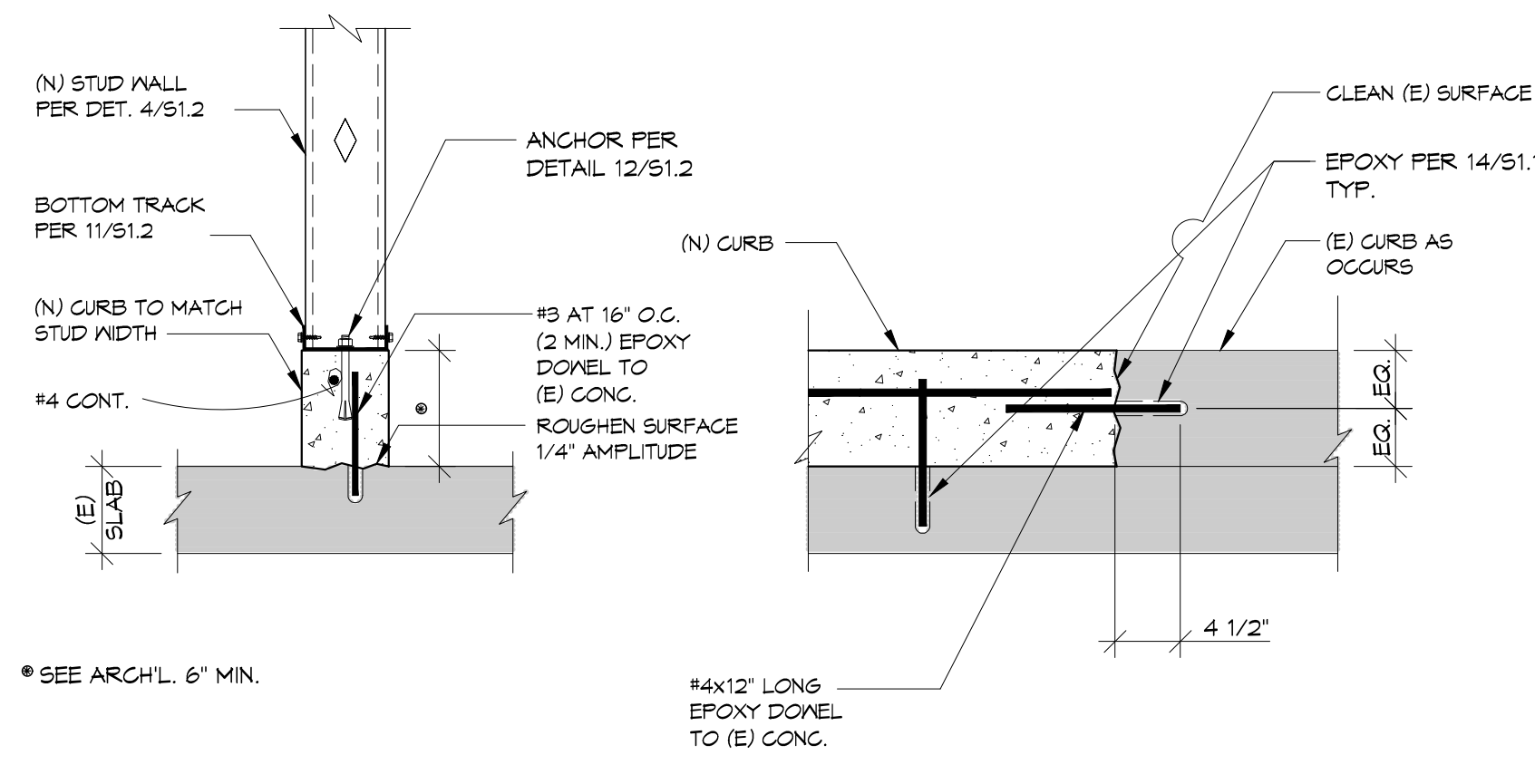
BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748

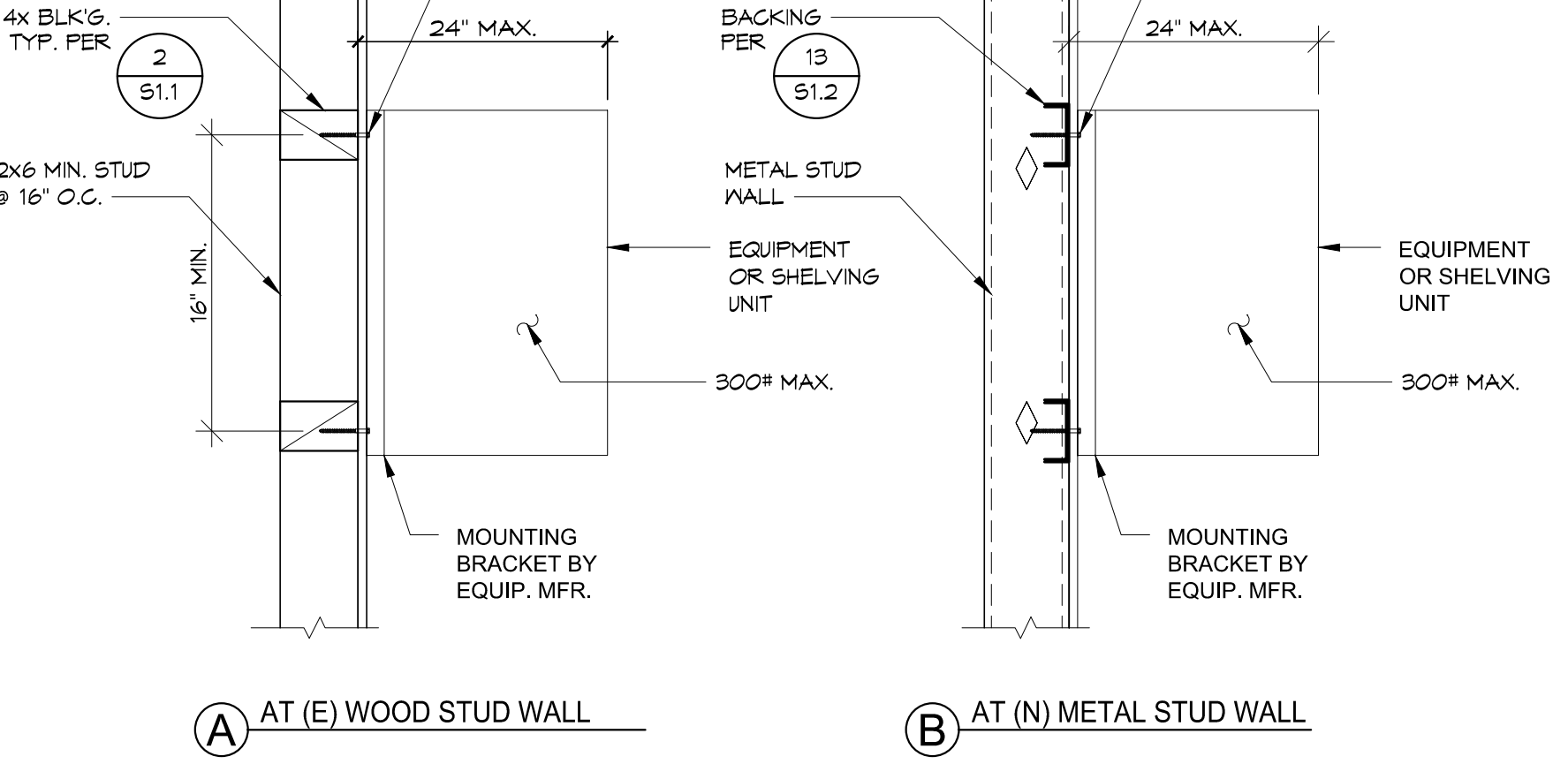
ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

PROJECT NO: 202310
SCALE: AS SHOWN
DATE: 12/4/2023
DRAWN BY: HAV
CHECKED BY: CAC
SHEET TITLE: TYPICAL LIGHT GAUGE STUD WALL FRAMING - NON BEARING

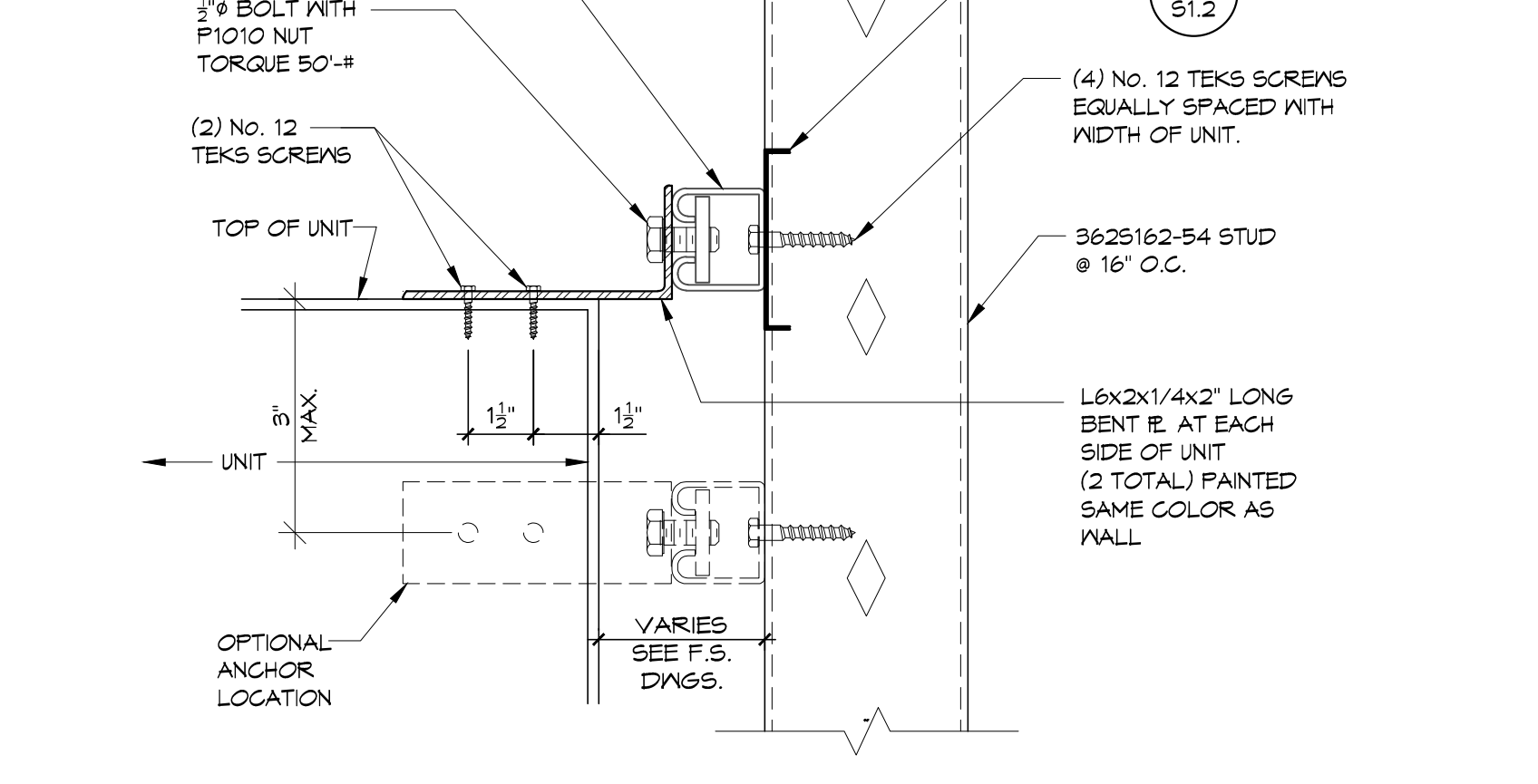
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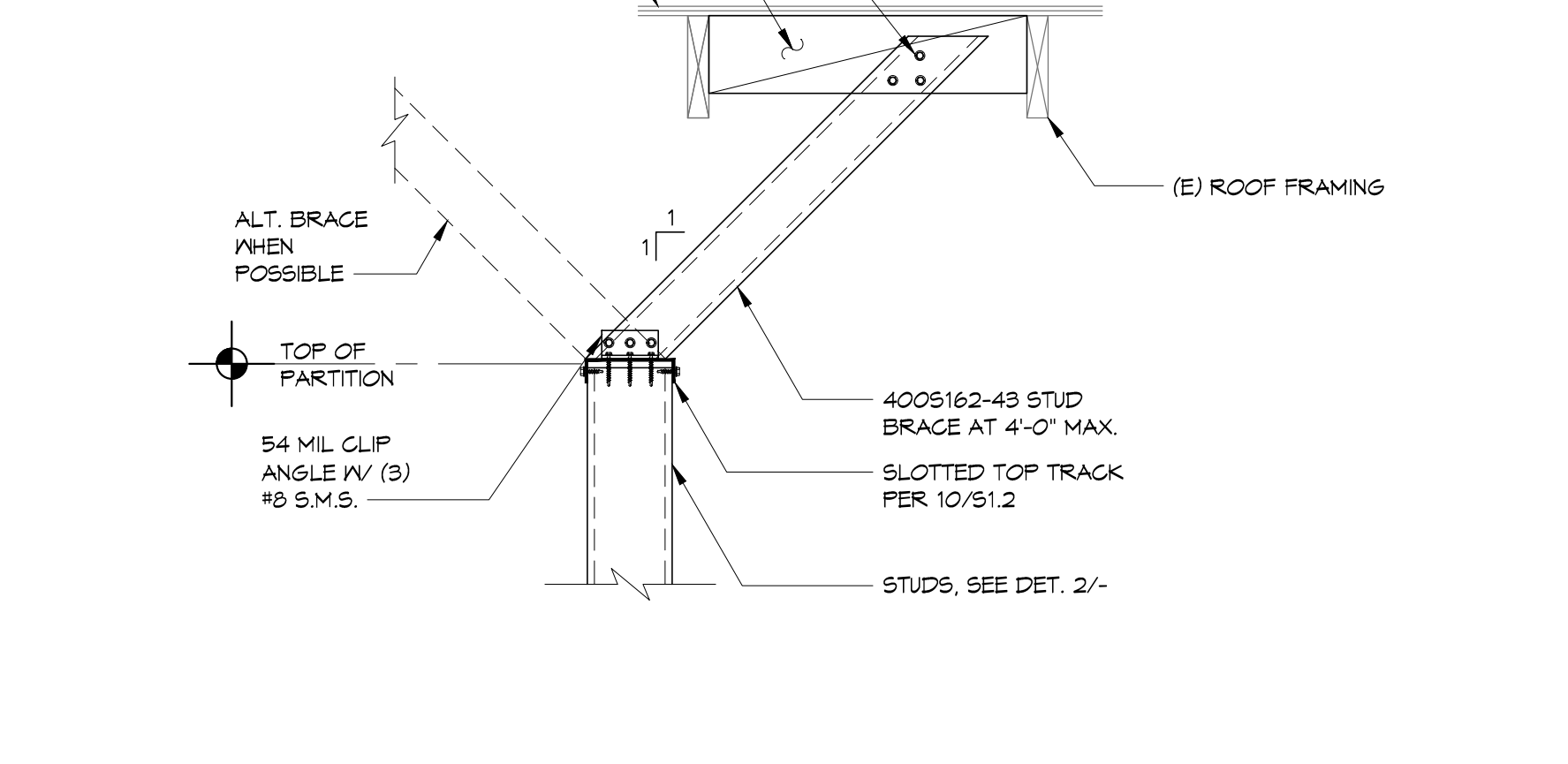
13 (N) CURB AT (E) SLAB



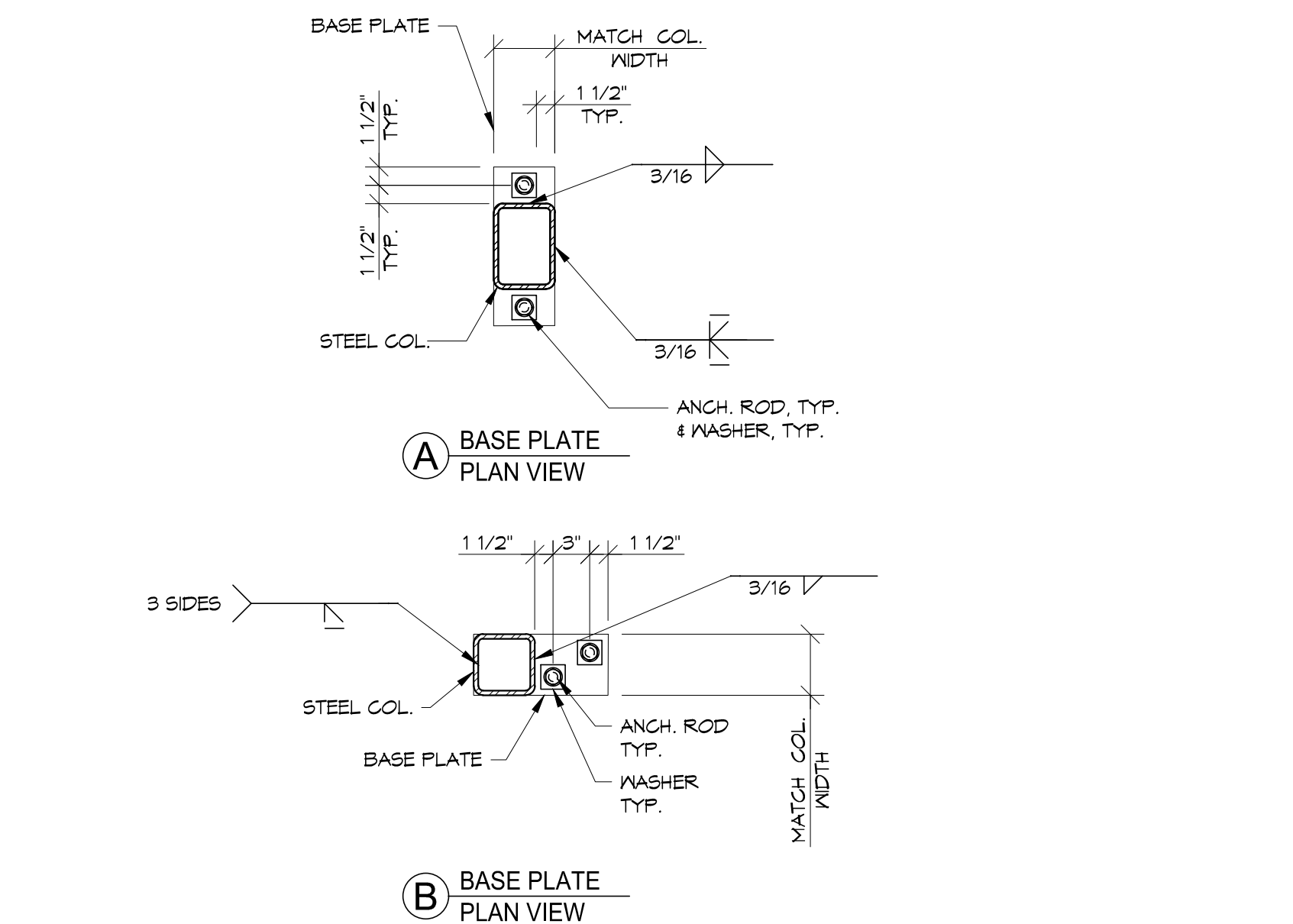
9 TYP. WALL HUNG EQUIPMENT ANCHORAGE



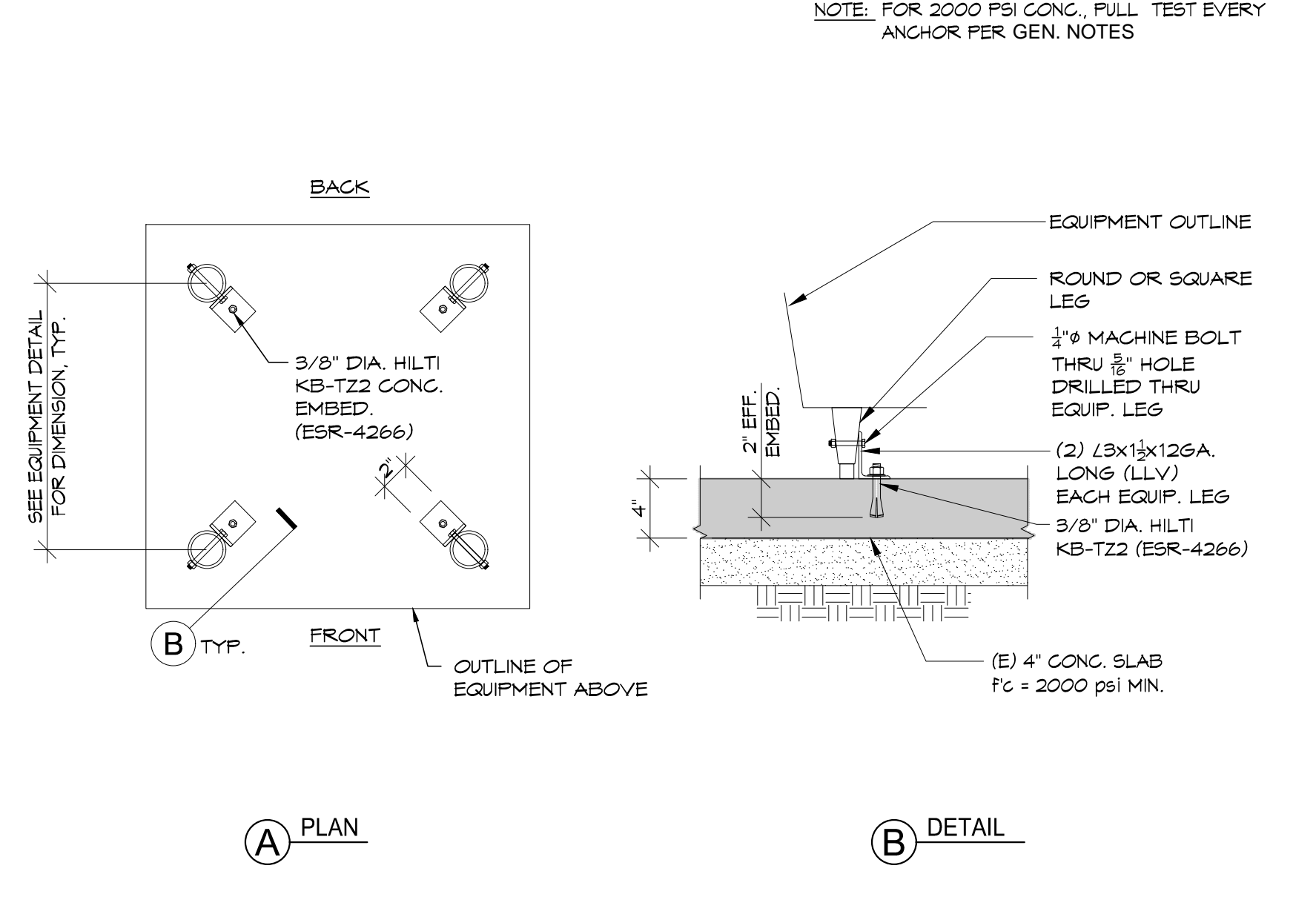
5 TYP. WALL BRACED EQUIPMENT ANCHOR



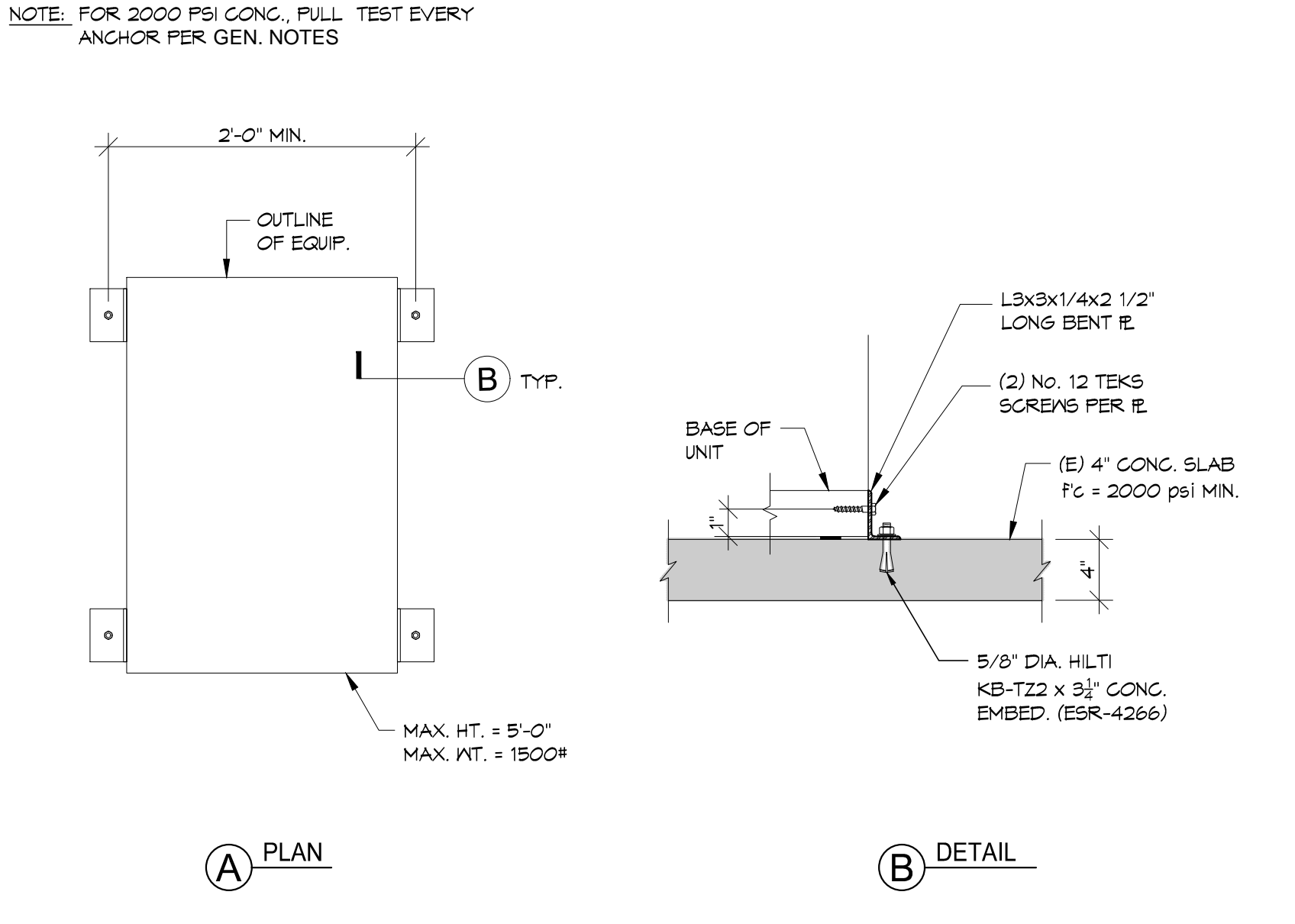
1 TYPICAL TOP OF INTERIOR WALL BRACING



14 BASE PLATE PLAN VIEW DETAILS



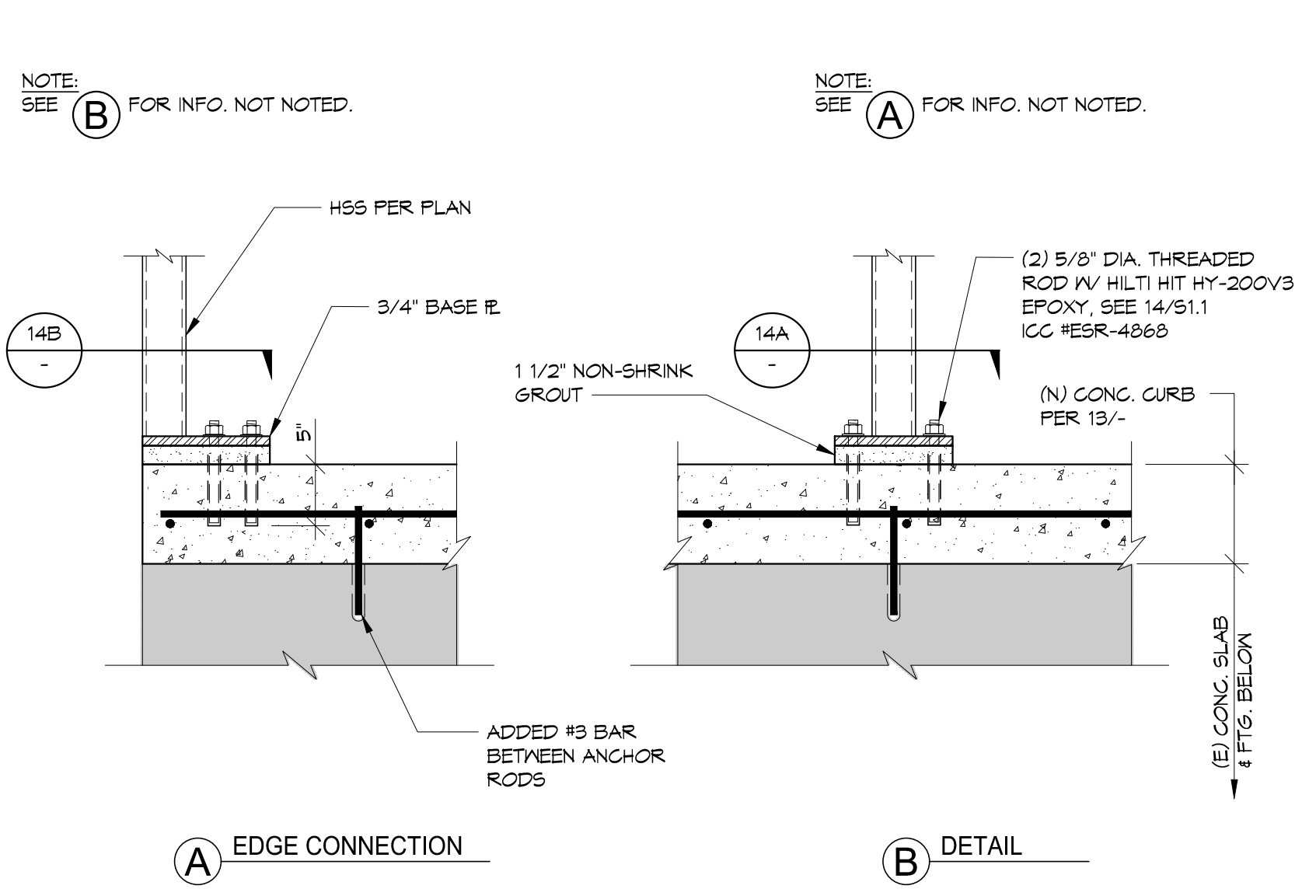
10 TYP. LEG MOUNTED EQUIP. ANCHORAGE DETAIL



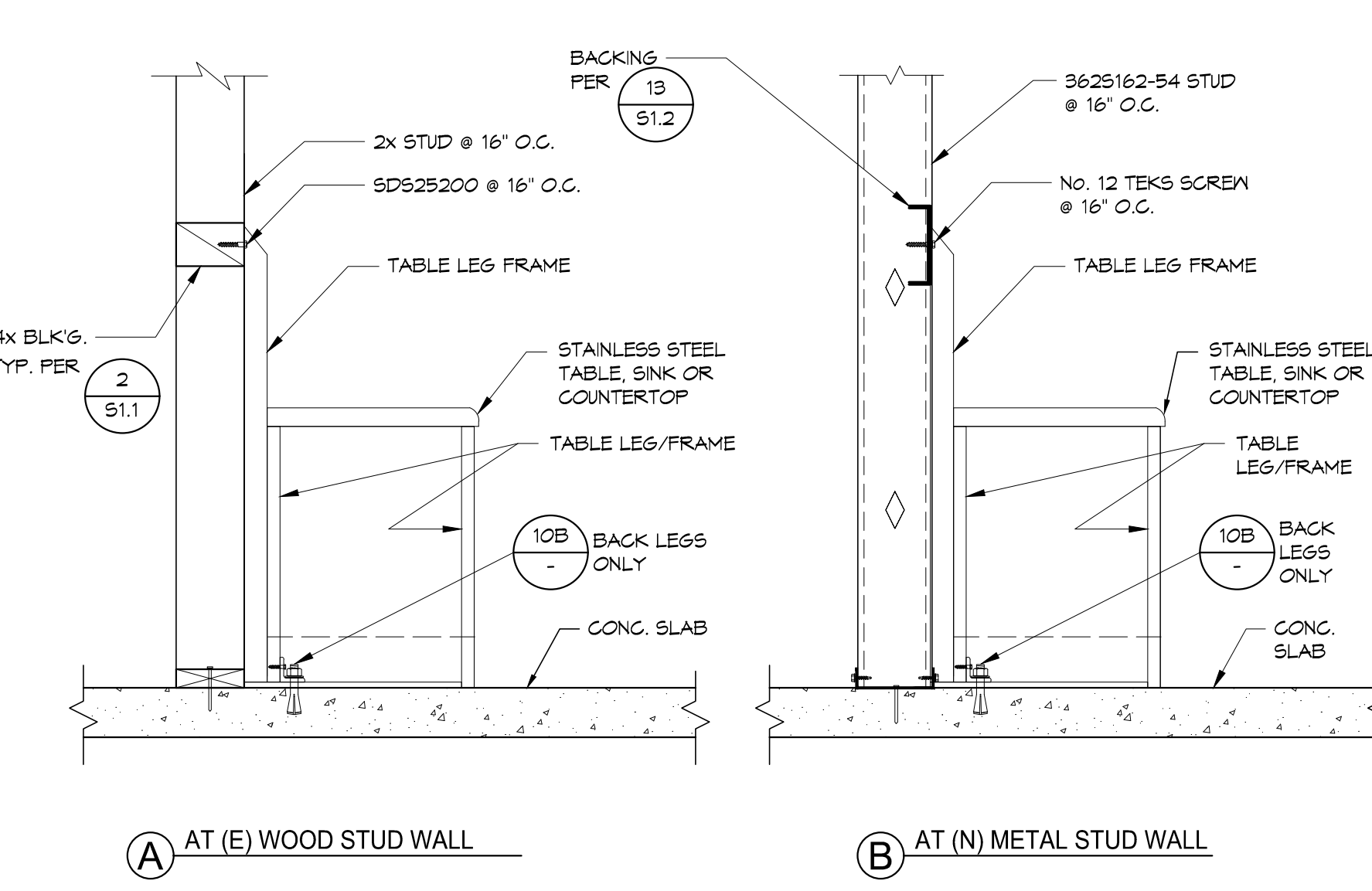
6 FLOOR MOUNTED EQUIPMENT ANCHORAGE



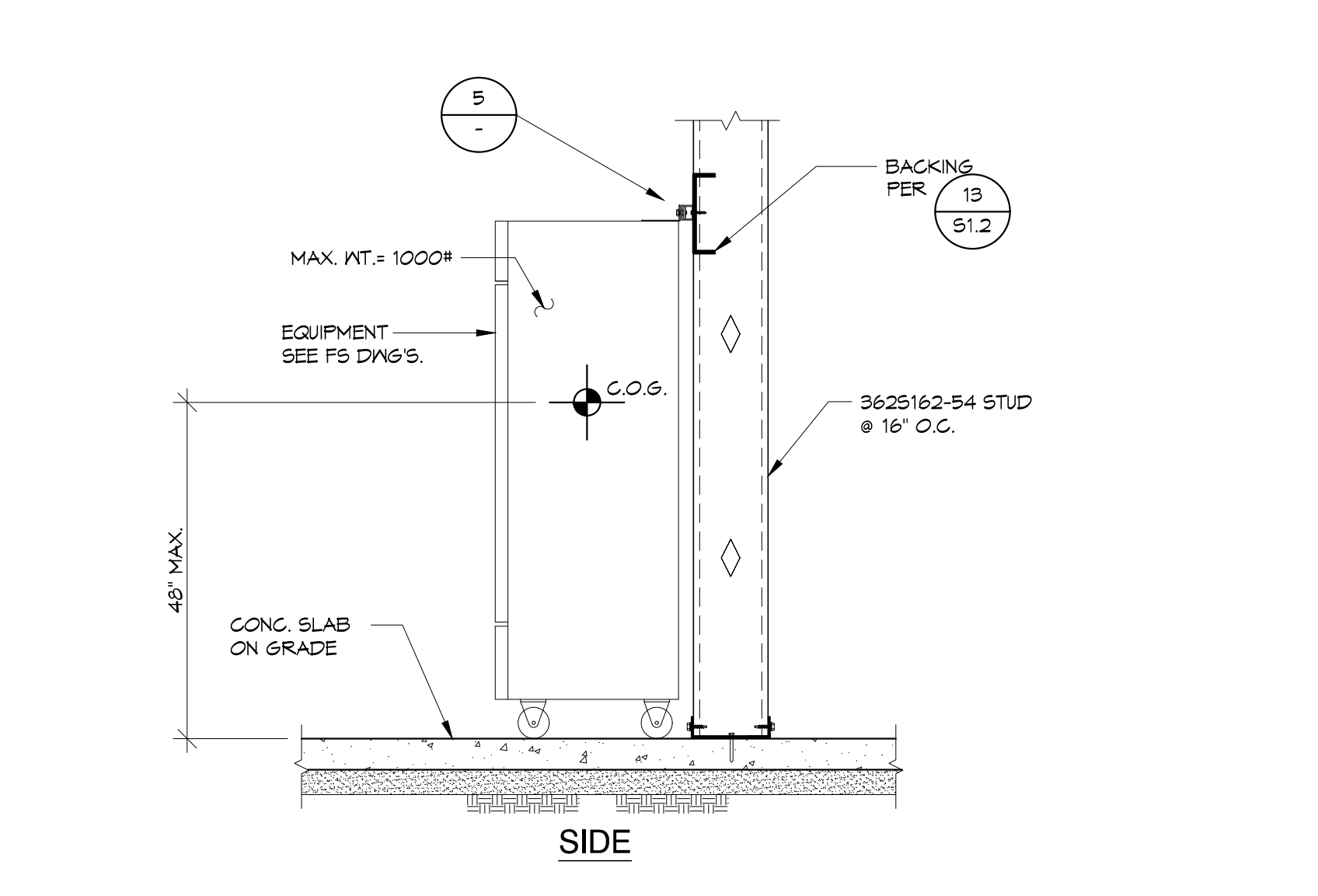
4 WALL SECTION



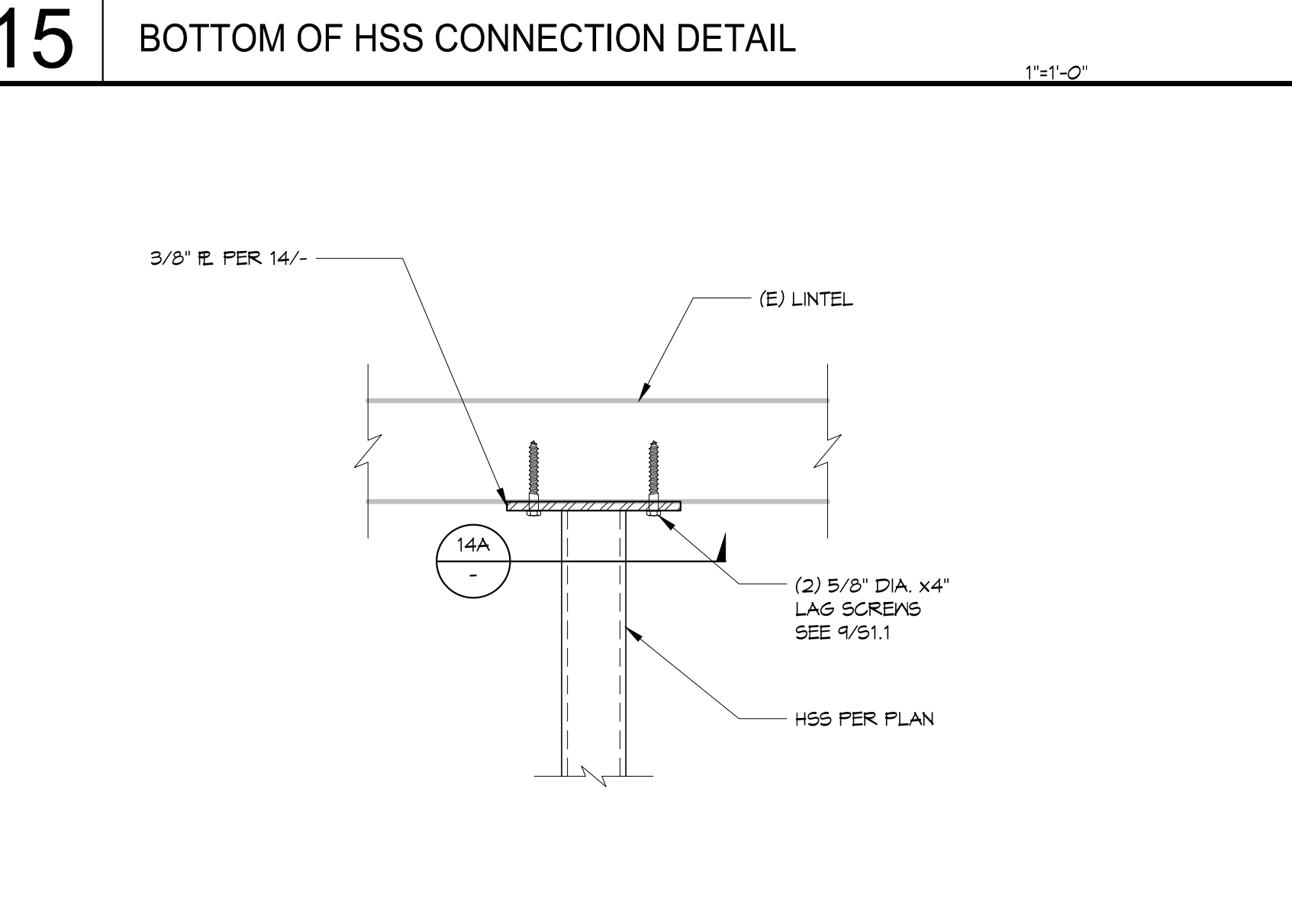
15 BOTTOM OF HSS CONNECTION DETAIL



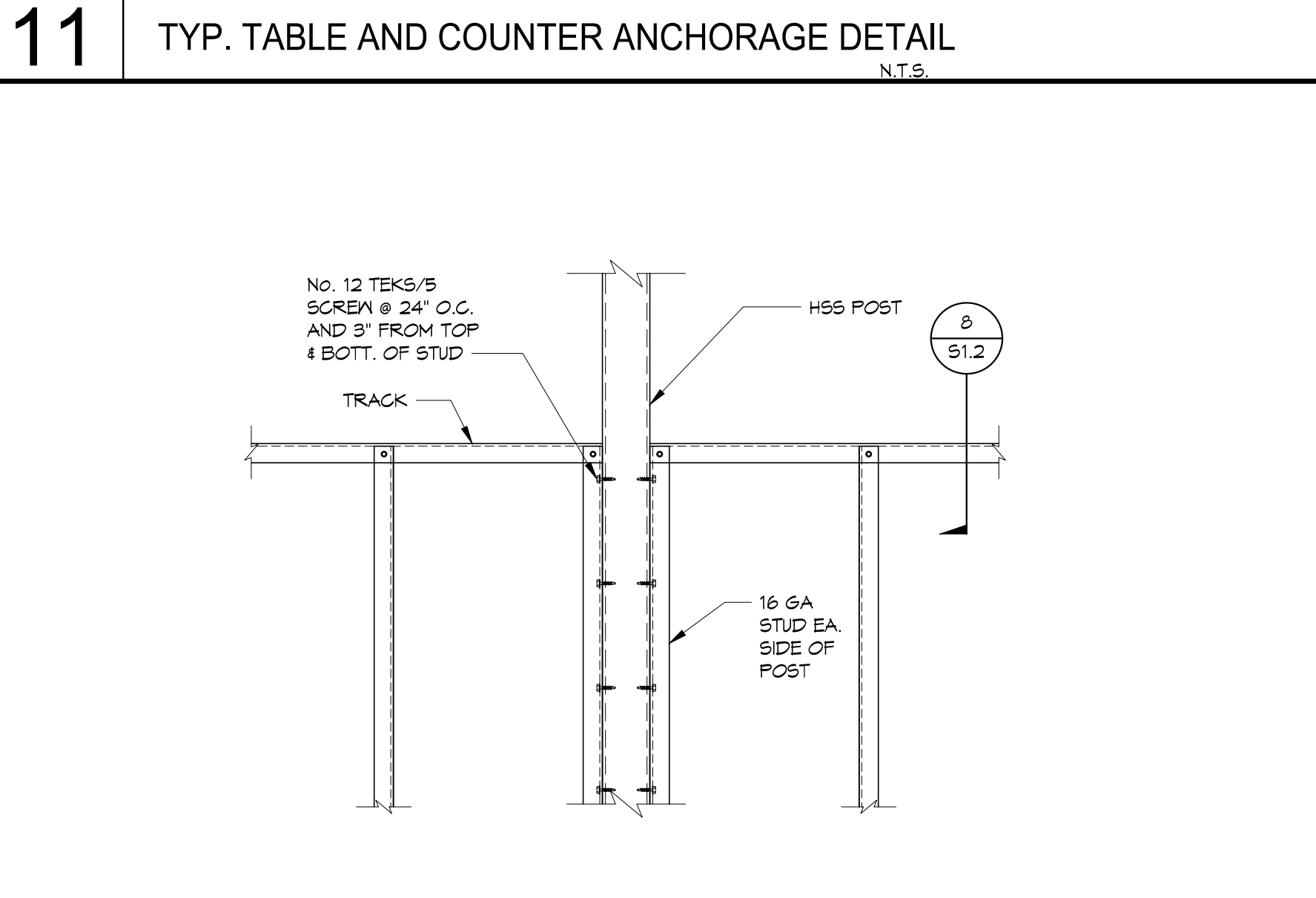
11 TYP. TABLE AND COUNTER ANCHORAGE DETAIL



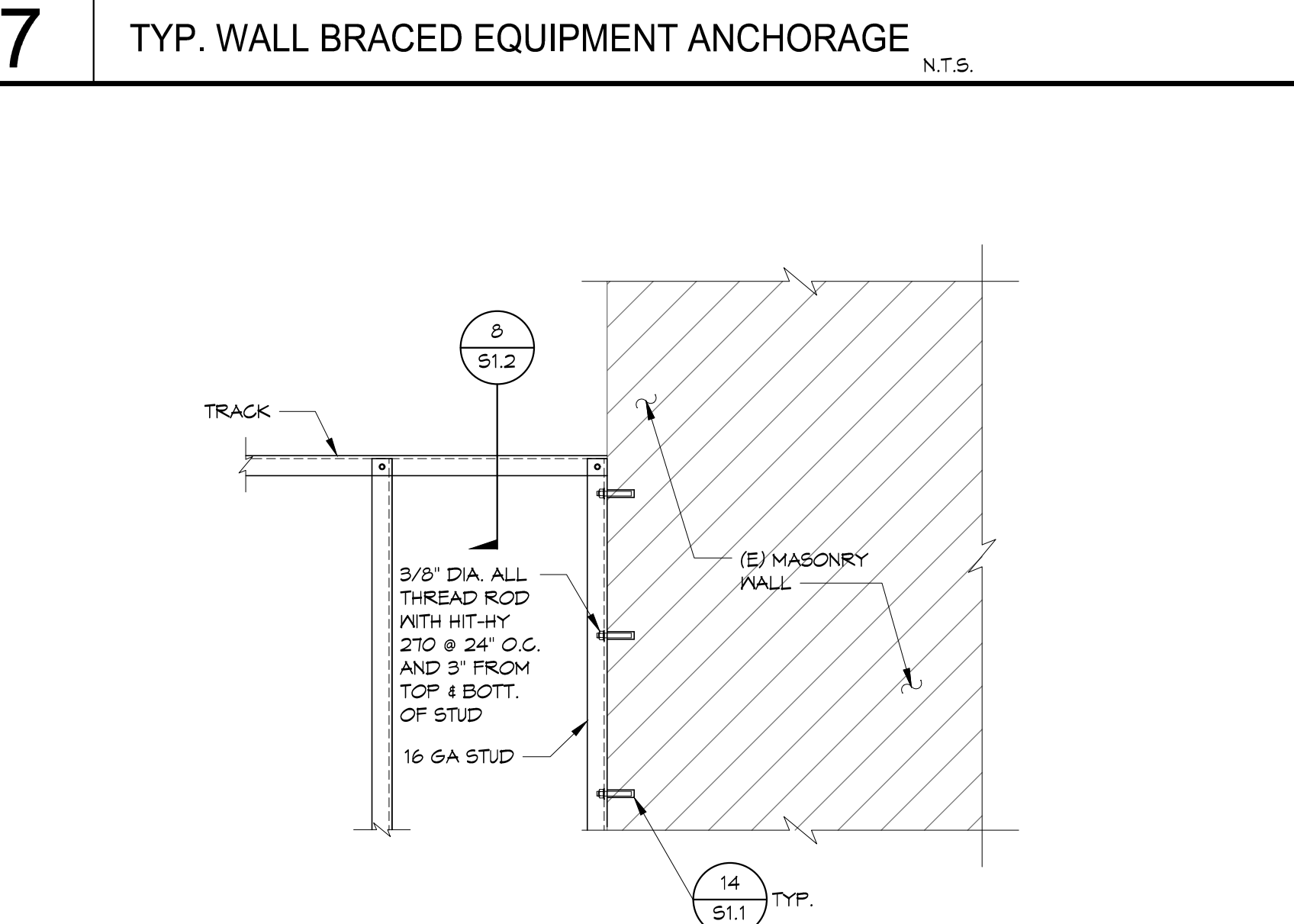
7 TYP. WALL BRACED EQUIPMENT ANCHORAGE



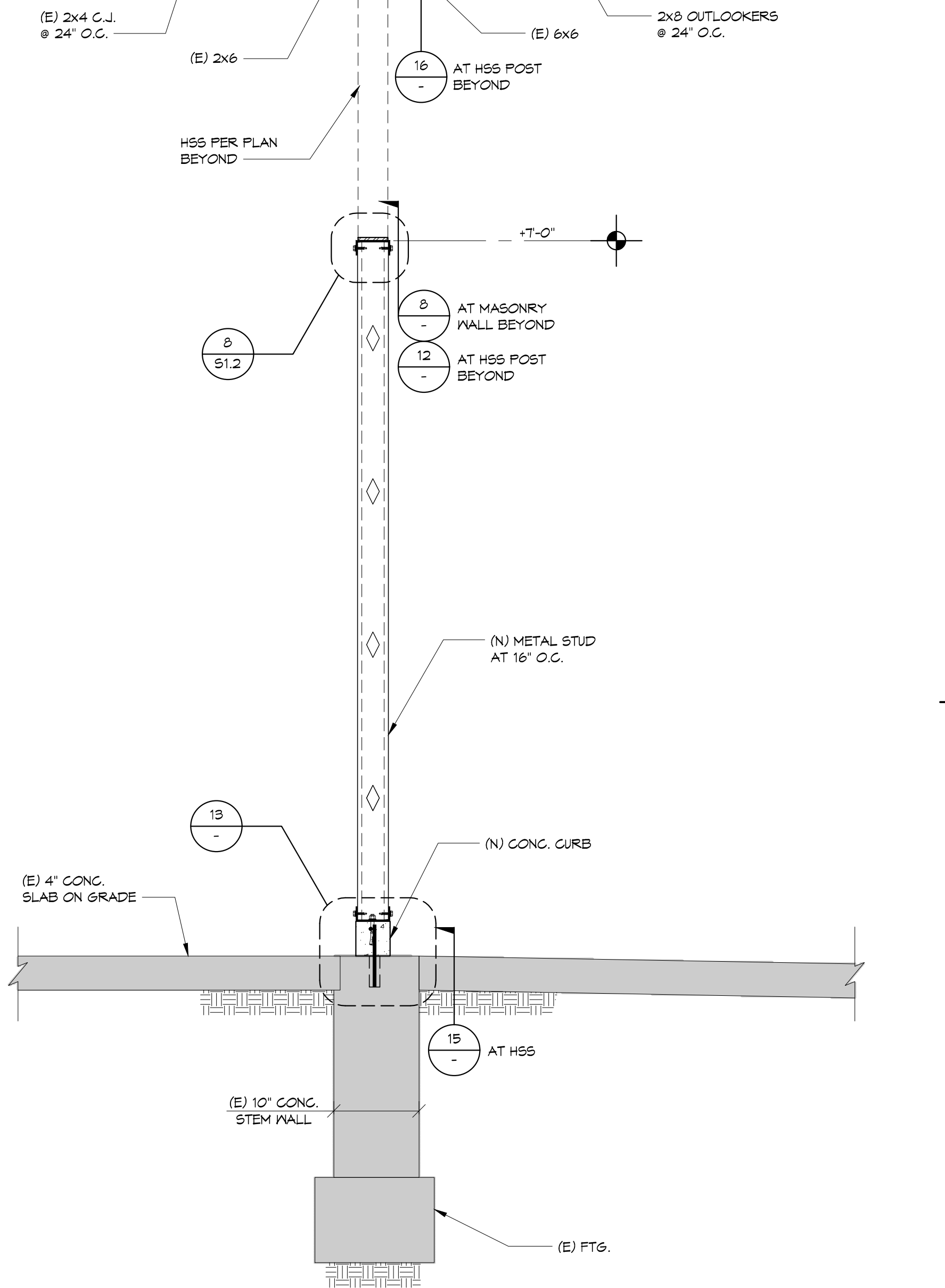
16 TOP HSS CONNECTION DETAIL



12 TRACK TO HSS POST



8 TRACK TO MASONRY WALL



3 WALL SECTION

APPROVAL STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124069 INC.
REVIEWED FOR
SS FLS ACS
DATE: 05/24/2024

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HOHBACH-LEWIN, INC.
511 Mission Street
South Pasadena, CA 91030
(626) 441-1211

PROFESSIONAL SEAL
Dennis J. Lee, P.E.
Exp. 03-31-2025
STRUCTURAL ENGINEER
STATE OF CALIFORNIA

ARCHITECT

CO-AR DESIGN, INC.
580 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186
Dennis J. Lee, NCARB dennis@coar-design.com

PROJECT

ROWLAND UNIFIED SCHOOL DISTRICT

BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

PROJECT NO: 202310
SCALE: AS SHOWN
DATE: 12/4/2023
DRAWN BY: HAV
CHECKED BY: CAC
SHEET TITLE: SECTIONS AND DETAILS

SUBMITTED REVISIONS:

1	SCHEMATIC DESIGN	9/19/2023
2	DESIGN DEVELOPMENT	12/4/2023

PROJECT NO: 202310
SCALE: AS SHOWN
DATE: 12/4/2023
DRAWN BY: HAV
CHECKED BY: CAC
SHEET TITLE: SECTIONS AND DETAILS

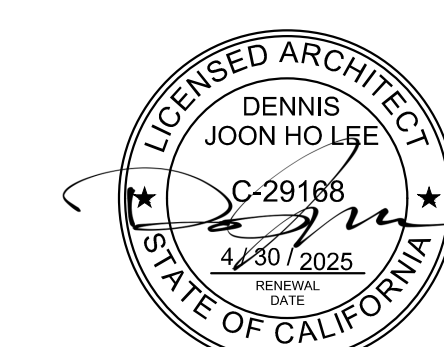
SHEET NO: **S1.3**

HOHBACH-LEWIN #17565

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NOTES:
HOHACH-LEWIN, INC.
 STATE OF CALIFORNIA REGISTERED ARCHITECTS
 511 Mission Street
 South Pasadena, CA 91030
 (626) 441-1211



ARCHITECT:
CO-AR DESIGN, INC.
 580 Brea Canyon Road, Suite 178
 Diamond Bar, California 91789
 Office: 909-598-0186
 Dennis J. Lee, NCARB dennis@coar-design.com



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
 ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
 1830 NOGALES STREET
 ROWLAND HEIGHTS, CA 91748

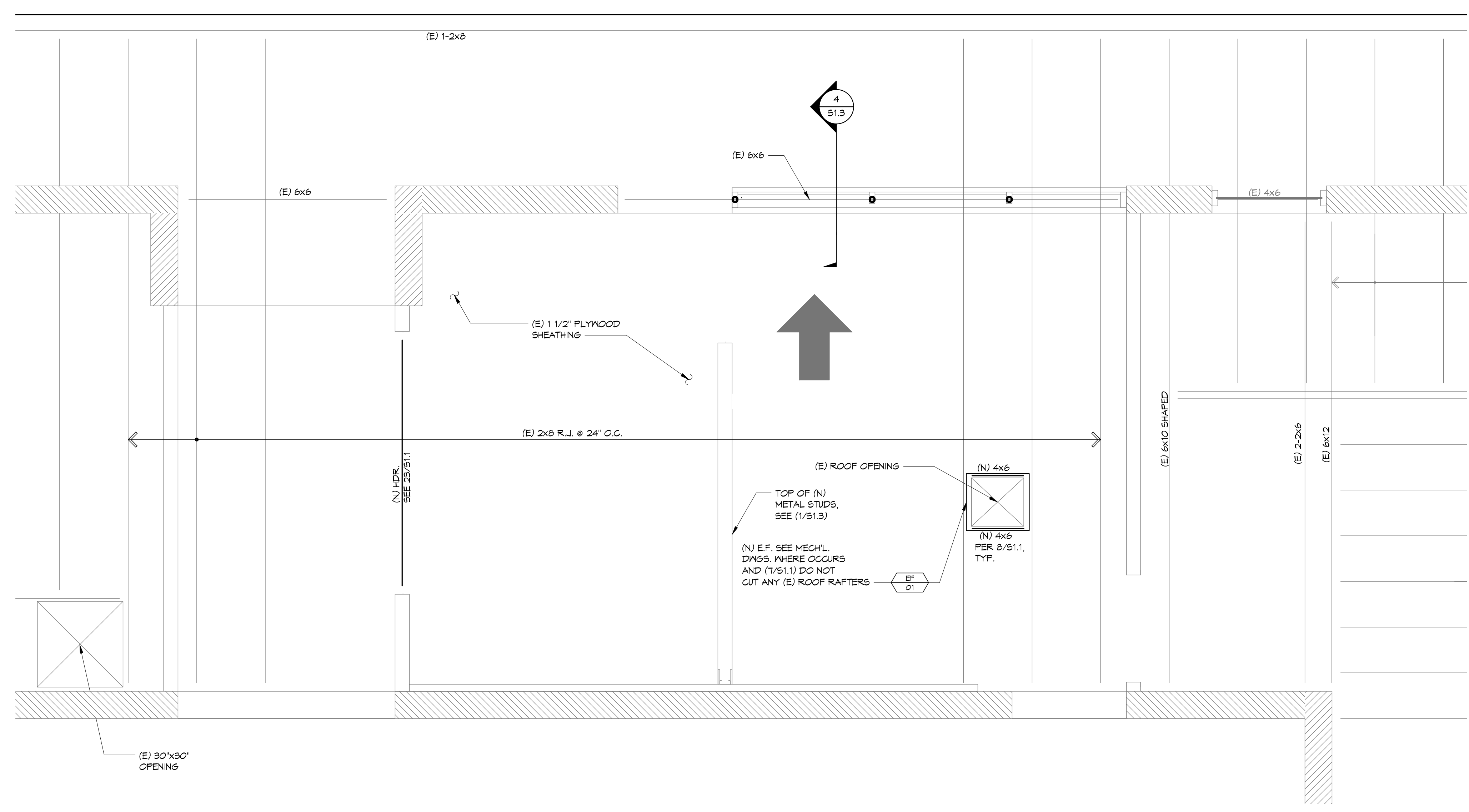
SUBMITTED REVISIONS:

1	SCHEMATIC DESIGN	9/19/2023
2	DESIGN DEVELOPMENT	12/6/2023

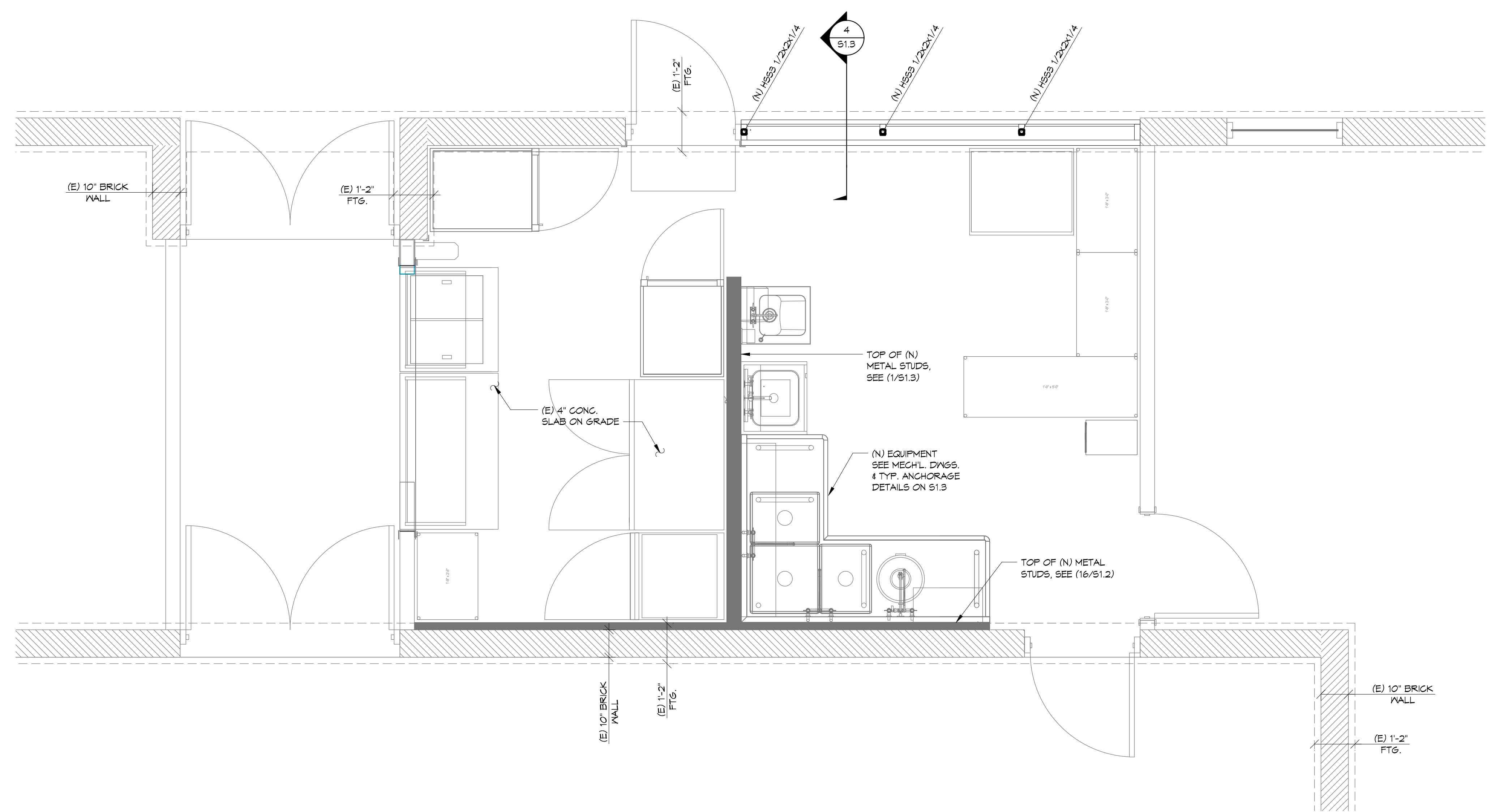
PROJECT NO: 202310
 SCALE: AS SHOWN
 DATE: 12/6/2023
 DRAWN BY: HAV
 CHECKED BY: CAC
 SHEET TITLE:

FOUNDATION AND ROOF FRAMING PLAN

SHEET NO:



ROOF FRAMING PLAN
 1/2"=1'-0" N



FOUNDATION PLAN
 1/2"=1'-0" N

202310-11-10-04 11:28:52 AM 11/28/2023 11:28:52 AM 11/28/2023 11:28:52 AM

GENERAL NOTES

- 1. CONTRACTOR SHALL VISIT JOB SITE TO VERIFY FIELD CONDITION AGAINST CONSTRUCTION PLAN AND SPECIFICATION...
2. SUBMISSION OF A CONTRACT SHALL BE CONSTRUCTED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTION OF THE EXISTING BUILDING...
3. BY ENTERING CONTACT OF CONSTRUCTION, WHETHER IT IS SHOWN OR NOT SHOWN ON THIS PLAN, CONTRACTOR IS FULLY RESPONSIBLE TO COMPLETE WORK WITH MEETING ALL APPLICABLE CODES, LAWS, AND REGULATIONS...

HVAC GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS.
2. ALL NEW DUCT SHALL BE SUPPORTED PER THE MINIMUM REQUIREMENT OF LATEST SMACMA GUIDELINE, AND SHALL BE BRACED AND GUYED TO PREVENT LATERAL OR HORIZONTAL SWING...
3. CONTRACTOR IS DIRECTED TO VISIT SITE AND BE FULLY COGNIZANT OF ALL CONDITIONS PRIOR TO PROPOSAL...

HVAC GENERAL NOTES CONTINUES

- 14. CONTRACTOR SHALL GUARANTEE THAT THE WORK DONE UNDER THIS SPECIFICATION WILL BE FREE FROM FAULTY MATERIALS OR WORKMANSHIP AND HEREBY AGREES, UPON RECEIVING NOTIFICATION FROM THE OWNER, AND TO ITS ENTIRE SATISFACTION, ALL DEFECTS, DAMAGES OR IMPERFECTIONS APPEARING IN SAID WORK WITHIN A PERIOD OF ONE (1) YEAR FROM DATE OF FILING NOTICE OF COMPLETIONS.
15. ALL SUPPLY AIR DUCTWORK WITHIN UN-CONDITIONAL SPACE SHALL BE EXTERNALLY OR INTERNALLY INSULATED WITH MINIMUM R-8 INSULATION.
16. RESTORE ALL DAMAGE AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.

APPLICABLE CODE

2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE CODE
2022 NFPA 13
ALL AMENDMENTS AND SUPPLEMENTS TO ABOVE CODES
ALL CITY OF ROWLAND HEIGHTS ORDINANCES AND AMENDMENTS TO ABOVE CODES, REGULATIONS OF DIVISION OF THE STATE ARCHITECT AND STANDARDS OF ROWLAND HEIGHTS UNIFIED SCHOOL DISTRICT

SCOPE OF WORK

- FURNISH AND INSTALL NEW EXHAUST FAN AND ASSOCIATED EXHAUST DUCT SYSTEM WITH ALL COMPONENTS REQUIRED FOR PROPER SYSTEM FUNCTIONALITY.
MODIFY AND ADD NEW SUPPLY AIR DUCT TO (E)AC SYSTEM FOR PROVISION OF CONDITIONED AIR IN WORK SCOPE AREA.
PROVIDE PRE-CONSTRUCTION AND POST-CONSTRUCTION AIR BALANCING TO (E)MODIFIED AC DUCT SYSTEM AND NEW DUCT SYSTEM.
PROVIDE START-UP AND SCHEDULING TO MODIFIED AC SYSTEM.

DRAWING INDEX

Table with 3 columns: Code (M-0.1, M-0.2, M-0.3), Description (MECHANICAL NOTES, LEGENDS, INDEX, CODE AND SCOPE OF WORK AND ABBREVIATION), and Details (MECHANICAL CALCULATIONS AND SCHEDULES, MECHANICAL DETAILS, MECHANICAL REFLECTED CEILING PLAN-DEMO, MECHANICAL REFLECTED CEILING PLAN-NEW, MECHANICAL ROOF PLAN)

LEGENDS, SYMBOLS AND ABBREVIATIONS

Table with 3 columns: SYMBOL, DESCRIPTION, and ABBREV. Includes symbols for supply, exhaust, return, registers, diffusers, ducts, elbows, and damper types.

Table with 3 columns: SYMBOL, ABBREV., and DESCRIPTION. Lists abbreviations for digital thermostats, diffusers, registers, dampers, elbows, access panels, smoke detectors, pressure sensors, draft dampers, clean outs, pipe downs, pipe ups, reducers, refrigerant pipes, and fire smoke dampers.

LEGENDS, SYMBOLS AND ABBREVIATIONS CONTINUES

Table with 4 columns: ABBR., DESCRIPTION, ABBR., DESCRIPTION. Lists abbreviations for air conditioning, building basement, ceiling diffusers, existing exhaust air, demolition, fresh air, floor from, grease exhaust, insulation space, outside air, return air, supply air, shut-off valve, transfer air, up through roof, and vent through roof.

MECHANICAL SEISMIC ANCHORAGE BRACING AND SUPPORT NOTES

MEP EQUIPMENT ANCHOORAGE NOTE

ALL MECHANICAL 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 DESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 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. PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CORD.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRAVERSE AND LONGITUDINAL DIRECTIONS:

- 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.

THE ACHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. 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

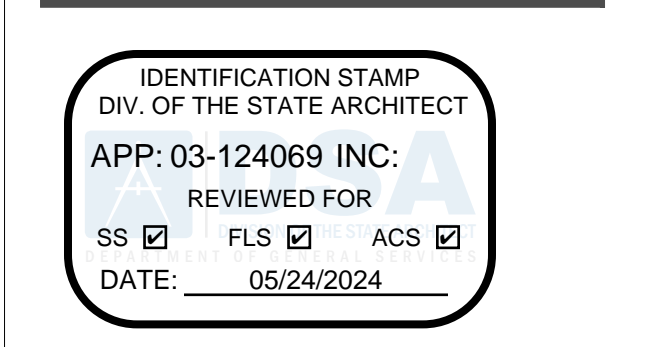
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

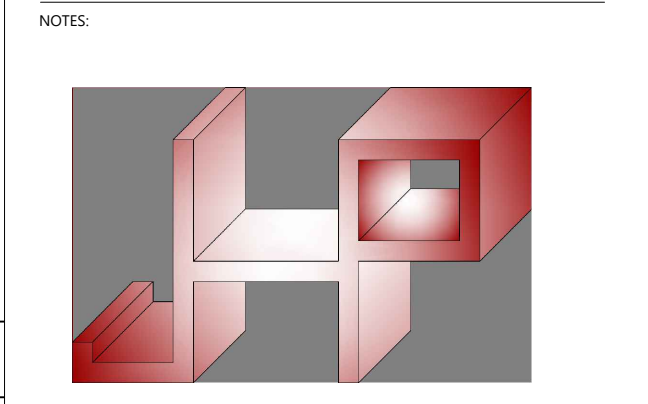
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

- MP MD PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #

DSA APPROVAL STAMP



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JHP Engineering and Design Services Inc.
3119 Central Parkway, Dublin, CA 94568
TEL: 510-788-6029
CELL: 510-468-9813
FAX: 510-788-6039

- 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. PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CORD.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRAVERSE AND LONGITUDINAL DIRECTIONS:

- 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.

THE ACHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. 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 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #

ARCHITECT



Dennis J. Lee, NCARB dennis@coar.design.com

PROJECT



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748
CLIENT

ROWLAND UNIFIED SCHOOL DISTRICT
1830 INGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTAL REVISIONS

Table with 2 columns: Revision number and date. Includes revisions for Schematic Design, Design Development, DSA Submittal, and DSA PC Revision.

PROJECT NO: 23071
SCALE: AS SHOWN
DATE: 12/4/2023
DRAWN BY: CY / CL
CHECKED BY: JP

MECHANICAL NOTES, LEGENDS, INDEX, CODE AND SCOPE OF WORK AND ABBREVIATION

MECHANICAL NOTES, LEGENDS, INDEX, CODE AND SCOPE OF WORK AND ABBREVIATION
SHEET NO:

M-0.1

BlMcbaurd COARS CONZ-23 - BlMcbaurd Basic for ArchHead 27/02/2023 15:30:50 Blandford Kitchen Mod - Monday, December 4, 2023 4:31 PM

MIN. OSA AND EXHAUST VENTILATION CALCULATIONS															
AREA DESIGNATION	OCCUPANCY CLASSIFICATIONS	OCCUPANT DENSITY (PPL/1000 FT ²)	AREA (A _z -FT ²)	NO. OF OCC. (P _z)	PPL OSA RATE (R _p -CFM/PPL)	AREA OSA RATE (R _A -CFM/FT ²)	MIN. REQ'D OSA (V _{oz} -CFM)	DISTRIBUTION EFFECTIVENESS (E _z)	FINAL REQ'D OSA RATE (V _{oz} -CFM)	EXHAUST RATE (CFM/FT ²)	REQUIRE EXHAUST AIRFLOW (CFM)	MIN. OSA RATE BASED ON TABLE 120.1-A 2022 ENERGY CODE (CFM/SQ.FT)	MIN. REQ'D AIRFLOW PER TABLE 120.1-A 2022 ENERGY CODE (CFM)	PROVIDED EXHAUST AIRFLOW (CFM)	PROVIDE OSA (CFM)
KITCHEN 06	KITCHEN COMMERCIAL	20	290	6	7.5	0.12	80	1.0	80	0.70	203	0.15	44	-400	80
TOTAL														-400	80

* MIN. OSA VENTILATION IS CALCULATED BASED ON 2022 CMC.
A. SECTION 403.2.1 : $V_{oz} = R_p \times P_z + R_A \times A_z$
B. SECTION 403.2.3 : $V_{oz} = V_{oz} \times E_z$
C. TABLE 402.1 AND TABLE 403.2.2
D. TABLE 403.7

EXHAUST FAN SCHEDULE													
TAG	AREA SERVED	MAKE/MODEL	CFM	ESP	FRPM	ELECTRICAL						WEIGHT (LBS)	REMARK
						VOLTS	Ø	BHP	ENCLOSURE	FLA	HP/WATT		
EF-01	KITCHEN ROOM	PANASONIC / G-095-VG	400	0.4	1,643	115	1	0.12	TEFC	3.8	¼ /--	29	1,2,3,4

REMARK:
1. PROVIDE FAN WITH FACTORY INSTALLED OR FIELD INSTALLED BACK-DRAFT DAMPER AT INLET OF FAN.
2. ELECTRICAL TO PROVIDE AND INSTALL DISCONNECT SWITCH.
3. EXHAUST FAN SHALL BE CONTROLLED BY TIME CLOCK FOR CONTINUOUSLY OPERATION DURING OPERATING HOURS.
4. INSTALL FAN WITH FACTORY ROOF CURB PREPARED BY GC.

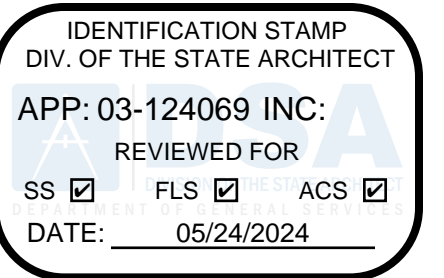
DIFFUSER AND GRILLE SCHEDULE						
TAG	LOCATION	TYPE	BRAND / MODEL	MODULE SIZE	NECK SIZE	REMARK
A	SEE PLAN	CEILING SUPPLY DIFFUSER	TITUS / PCS	24X24	SEE PLAN	1,2,3,4
B	SEE PLAN	CEILING RETURN/ EXHAUST GRILLE	TITUS / PAR	24X24	SEE PLAN	1,2

REMARK:
1. CONTRACTOR TO VERIFY EXACT BORDER TYPE WITH ACTUAL CEILING CONSTRUCTION PRIOR TO ORDER.
2. PROVIDE FACTORY OPPOSED-BLADES DAMPER FOR BALANCING WHERE ACCESS OF MANUAL DAMPER CANNOT BE OBTAINED.
3. CONFIRM WITH ARCHITECT FOR FINISH AND COLOR PRIOR TO PLACE ORDER.
4. PROVIDE TAP BOX ON TOP OF DIFFUSER/PLENUM FOR DUCT CONNECTION.

DUCT INSULATION SCHEDULE					
ITEM	LOCATION	INSULATION TYPE	MIN. R-VALUE	MIN. THICKNESS	REMARK
SUPPLY AIR DUCT/PLENUM	EXTERIOR AND UNCONDITIONAL SPACE	FIBERGLASS	R-8	3"	1,2
SUPPLY AIR DUCT/PLENUM	INDIRECT CONDITIONAL SPACE	FIBERGLASS	R-4.2	1.5"	1,2

REMARKS:
1. ALL INSULATION OR ACCOUSTICAL LINING SHALL HAVE SMOKE SPREAD INDEX LESS THAN 50 AND FLAME SPREAD INDEX LESS THAN 25.
2. ALL EXTERIOR DUCTWORK AND PLENUMS SHALL BE INTERNALLY INSULATED.

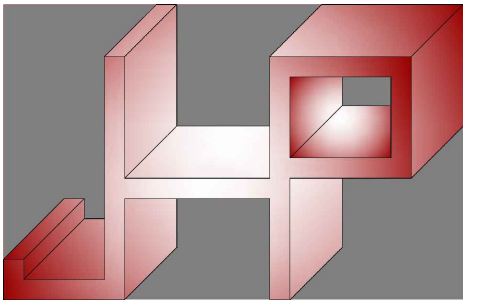
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NOTES:



JHP Engineering and Design Services Inc.

ADR: 3119 Central Parkway, Dublin, CA 94568
TEL: 510-788-6039
CELL: 510-468-0613
FAX: 510-788-6039



ARCHITECT

CO-AR DESIGN, INC.
680 Bras Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186

Dennis J. Lee, NCARB dennisj@coar-design.com

PROJECT:



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748

CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

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3	DSA SUBMITTAL	02/26/2024
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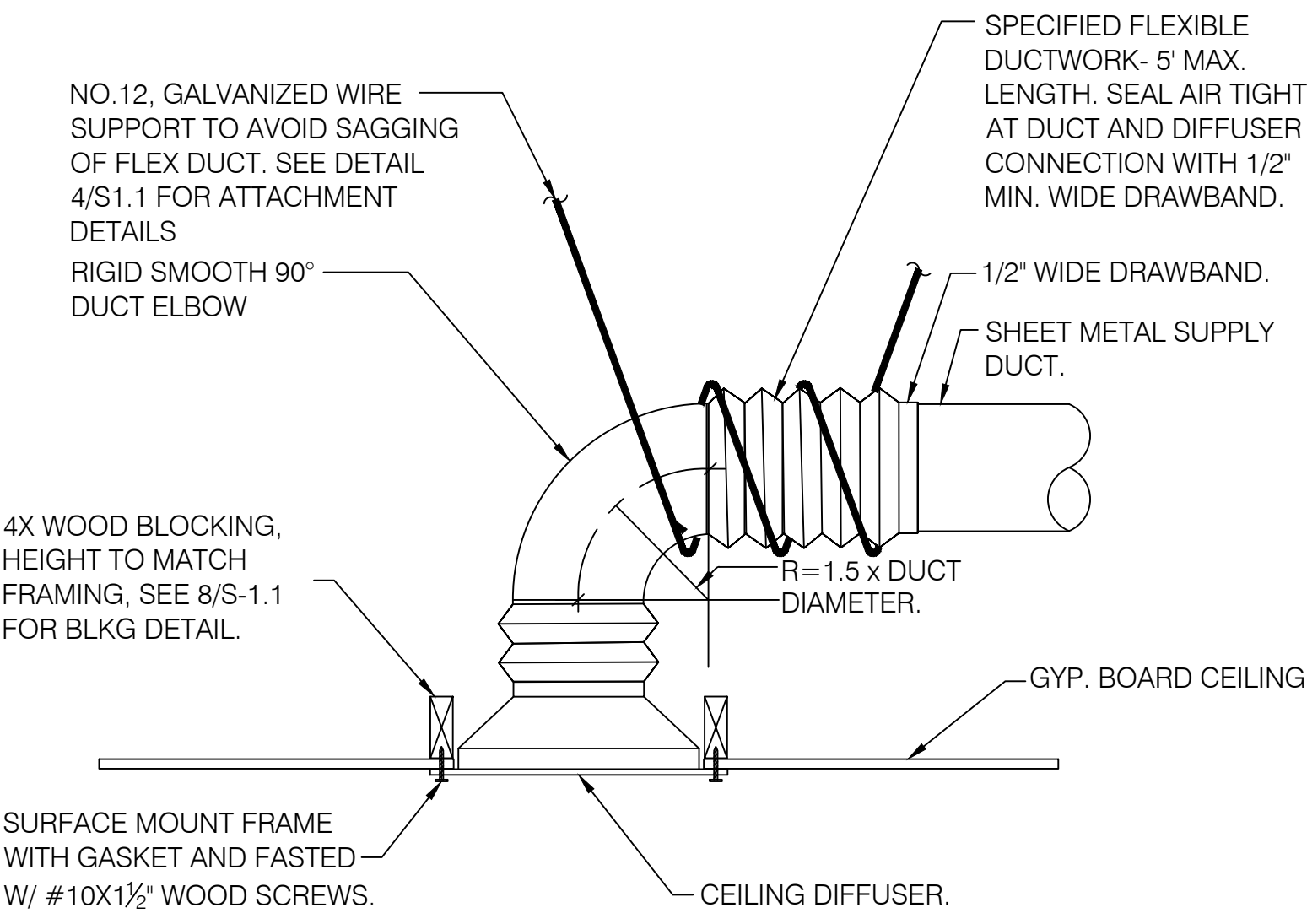
PROJECT NO: 23071
SCALE: AS SHOWN
DATE: 12/4/2023
DRAWN BY: CY / CL
CHECKED BY: JP

SHEET TITLE:

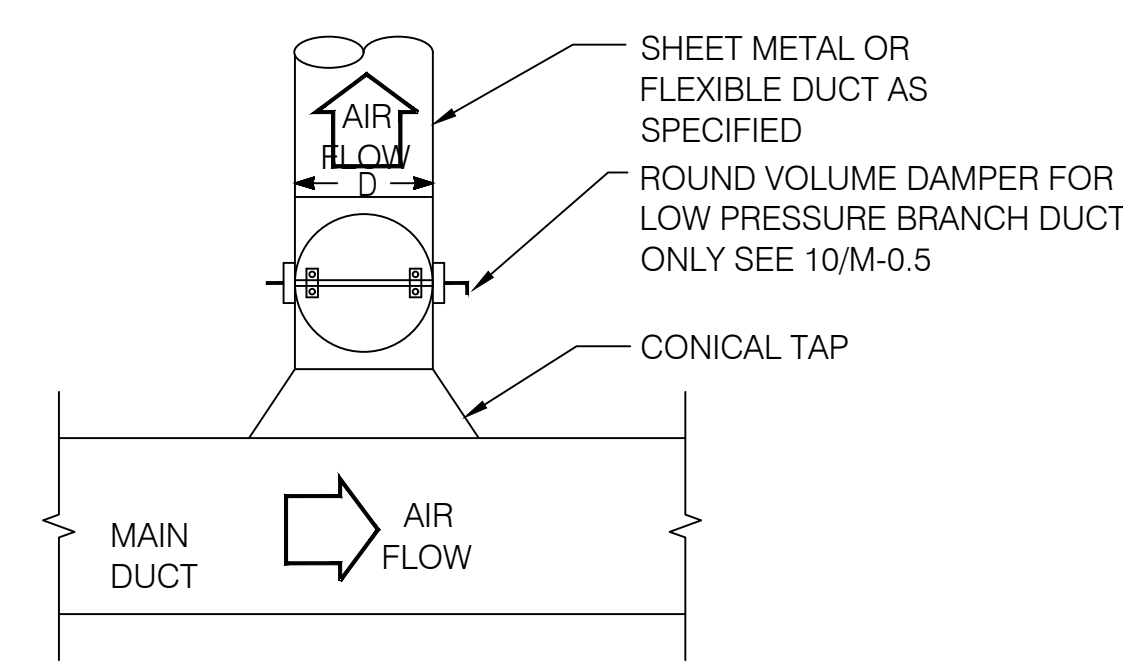
MECHANICAL CALCULATIONS AND SCHEDULES

SHEET NO:

M-0.2

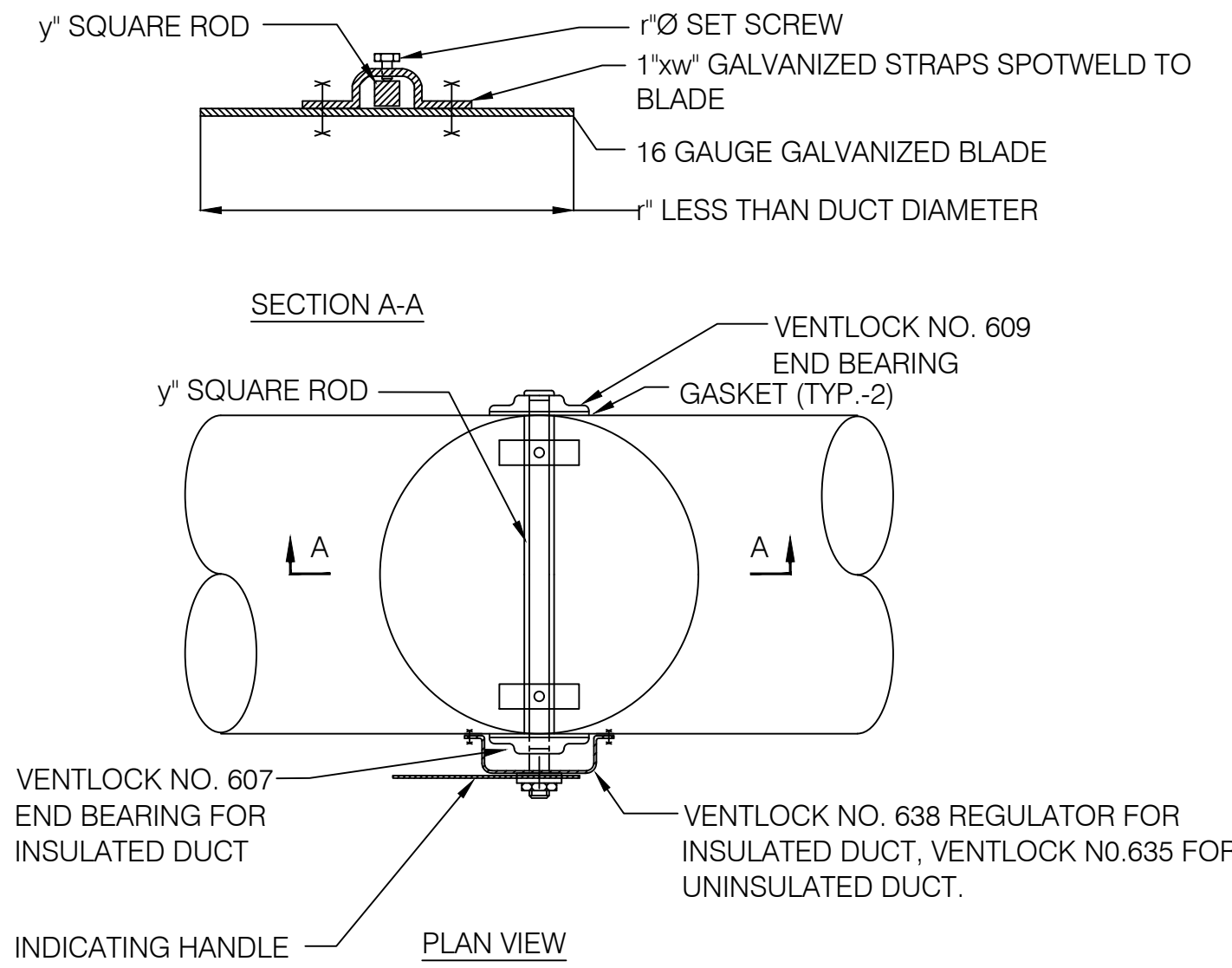


1 CEILING DIFFUSER DETAIL
SCALE: N.T.S.

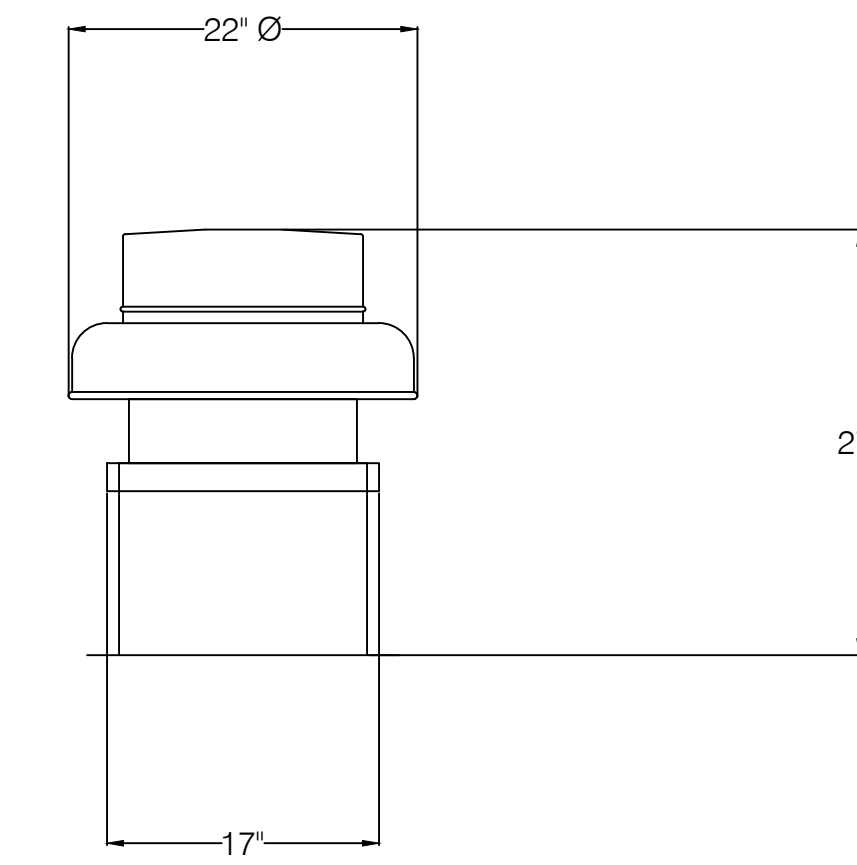


- NOTES:
1. USE FOR SYMBOL WHERE BRANCH DUCT AIR QUANTITY IS LESS THAN 25% OF THE TOTAL AIR FLOW.
 2. DEPTH OF MAIN DUCT MUST BE 2" LARGER THAN CONICAL DIAMETER.

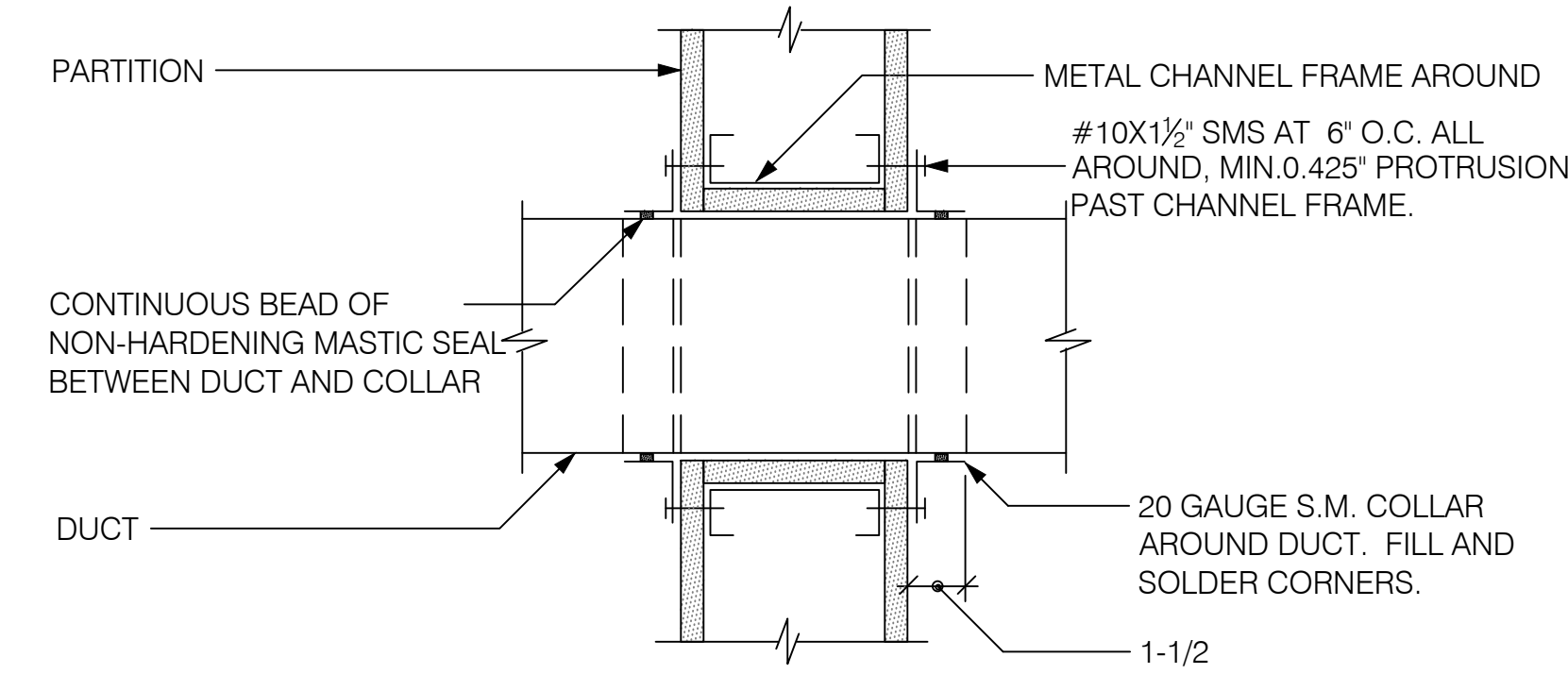
2 CIRCULAR DUCT CONICAL TAP WITH VOLUME DAMPER
SCALE: N.T.S.



3 ROUND VOLUME DAMPER UP TO 14" DIAMETER, LOW PRESSURE
SCALE: N.T.S.

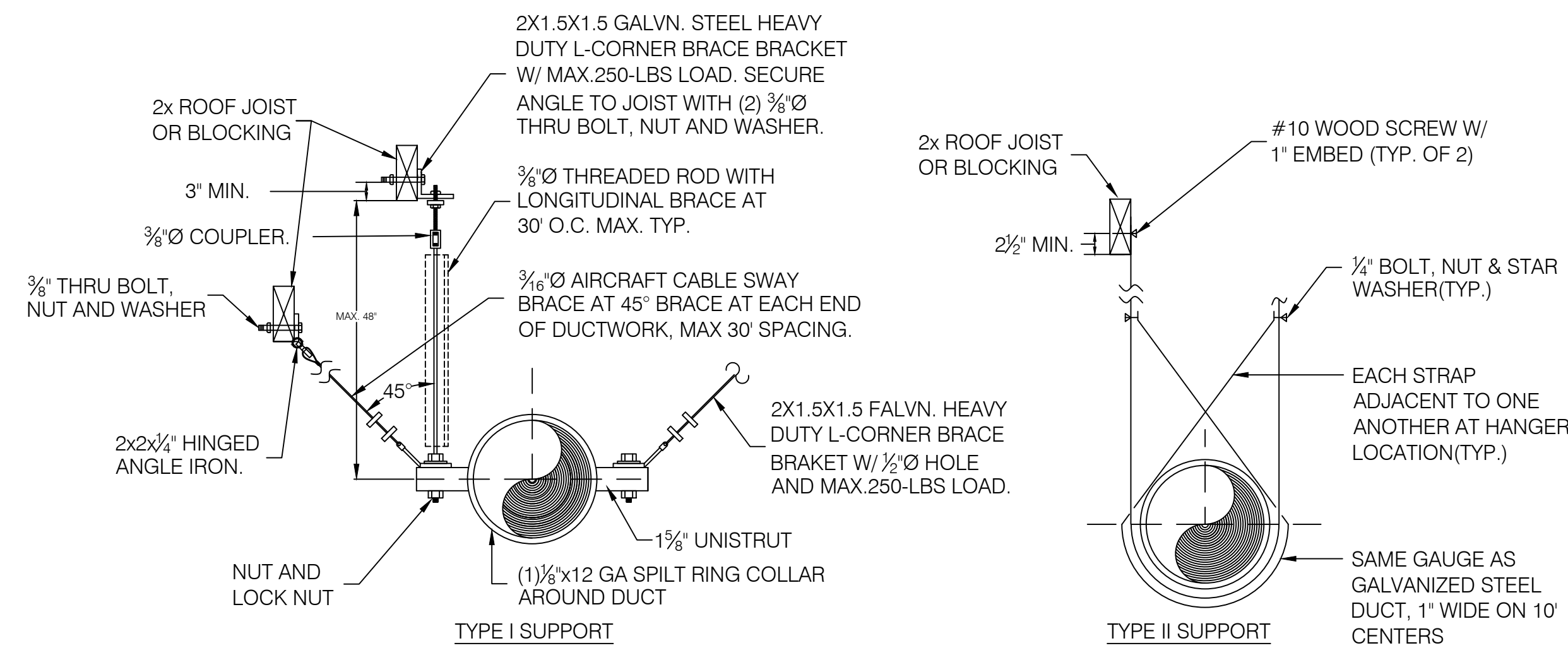


4 EF-01 DETAILS
SCALE: N.T.S.



- NOTE: DETAIL SIMILAR FOR ALL CONCEALED AND EXPOSED DUCTS THRU FULL HEIGHT NON-RATED PARTITION. MAX. DUCT SIZE SHALL NO EXCEED 12-INCH IN EITHER DIMENSION AND PENETRATION SHALL NOT DAMAGE (E)WALL STUDS.

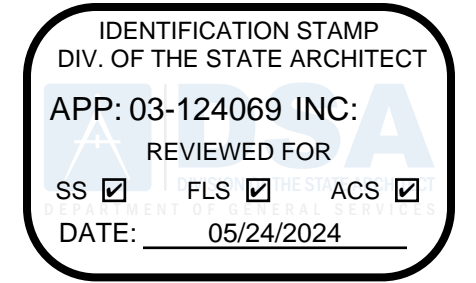
5 DUCT THROUGH FULL HEIGHT NON-RATED PARTITION
SCALE: N.T.S.



- NOTES:
1. APPLY TYPE I DUCT SUPPORT AT EACH END OF SUPPLY AIR MAIN.
 2. APPLY TYPE II DUCT SUPPORT AT 10' INTERVAL.
 3. HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THAN 1/2" WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER RECOMMENDED MATERIALS AND AT INTERVAL NO GREATER THAN 4FT. PERMISSIBLE SAG IS MAX. 1/2" PER FOOT OF SPACING BETWEEN SUPPORTS.

6 DUCT SUPPORT DETAIL
SCALE: N.T.S.

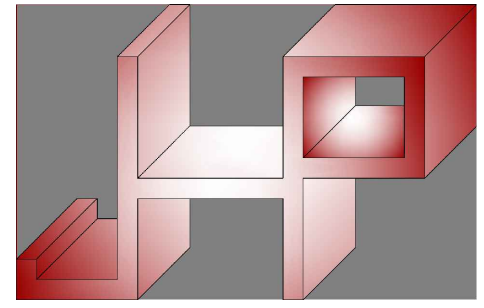
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ADR: 3119 Central Parkway, Dublin, CA 94568
TEL: 510-788-6029
CELL: 510-458-0913
FAX: 510-788-6039



ARCHITECT:
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680 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186

Dennis J. Lee, NCARB dennis@coar.design



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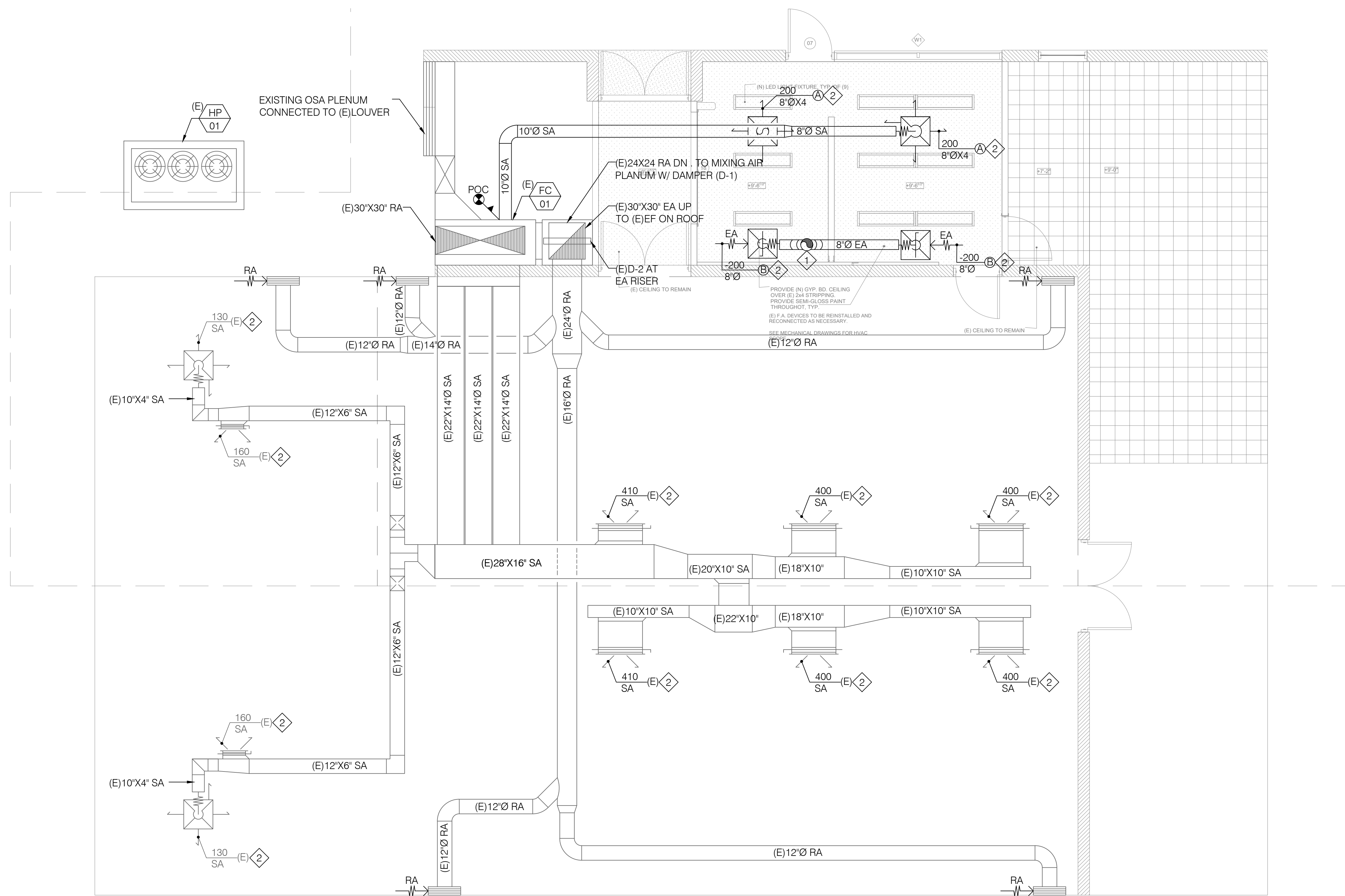
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DRAWN BY: CY / CL
CHECKED BY: JP

MECHANICAL DETAILS

SHEET NO:

M-0.3



2 MECHANICAL REFLECTED CEILING PLAN - NEW
SCALE: 1/4" = 1'-0"

- SHEET NOTES:
- 1 14" Ø EA UP TO ROOF W/ 45° ELBOW AT BRANCH DUCT TAKE-OFF.
 - 2 REBALANCE (E) AC SYSTEM PER NEW AIRFLOW RATE ON PLAN. TYPICAL.

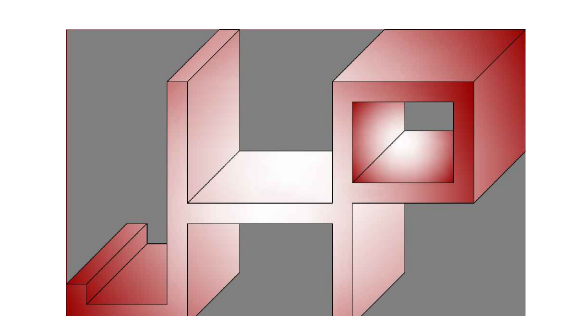
DSA APPROVAL STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-124069 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 05/24/2024

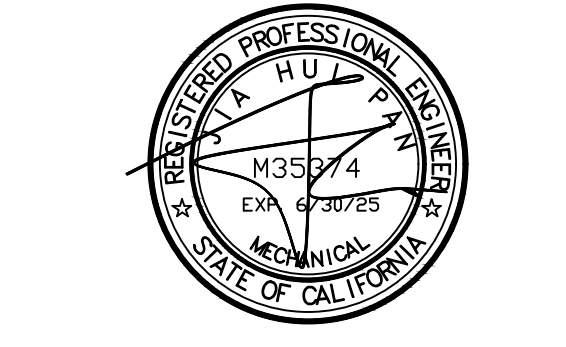
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ADR: 3119 Central Parkway,
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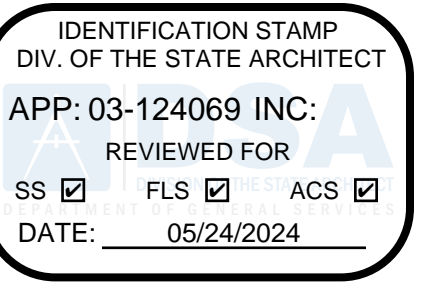
MECHANICAL REFLECTED CEILING PLAN - NEW

SHEET NO:
M-1.1

SHEET NOTES:

- 1 DEMOLISH AND REMOVE EXISTING ROOF MOUNTED EXHAUST FAN. COORDINATE WITH GC FOR PREPARATION ROOF CURB FOR INSTALLATION OF NEW EXHAUST FAN. SEE DWG.2 FOR DETAILS.

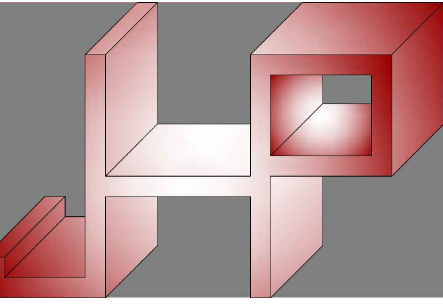
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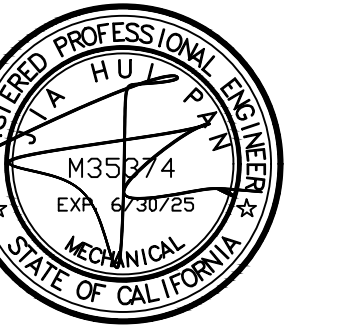
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1 MECHANICAL ROOF PLAN-DEMO
 SCALE: 1/4" = 1'-0"

SHEET NOTES:

- 1 ROOF MOUNTED EXHAUST FAN W/ FACTORY ROOF CURB. SEE DWG.7/S-1.1 FOR ROOF OPENING DETAIL, AND SEE EQUIPMENT SCHEDULE FOR DETAILED REQUIREMENTS.
- 2 DISCHARGE OF ENVIRONMENTAL EXHAUST SHALL BE 3-FEET AWAY FROM PROPERTY LINE AND 10-FEET AWAY FROM OUTSIDE AIR INTAKE, AND 3- FEET AWAY FROM BL. OPENING.



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 Diamond Bar, California 91789
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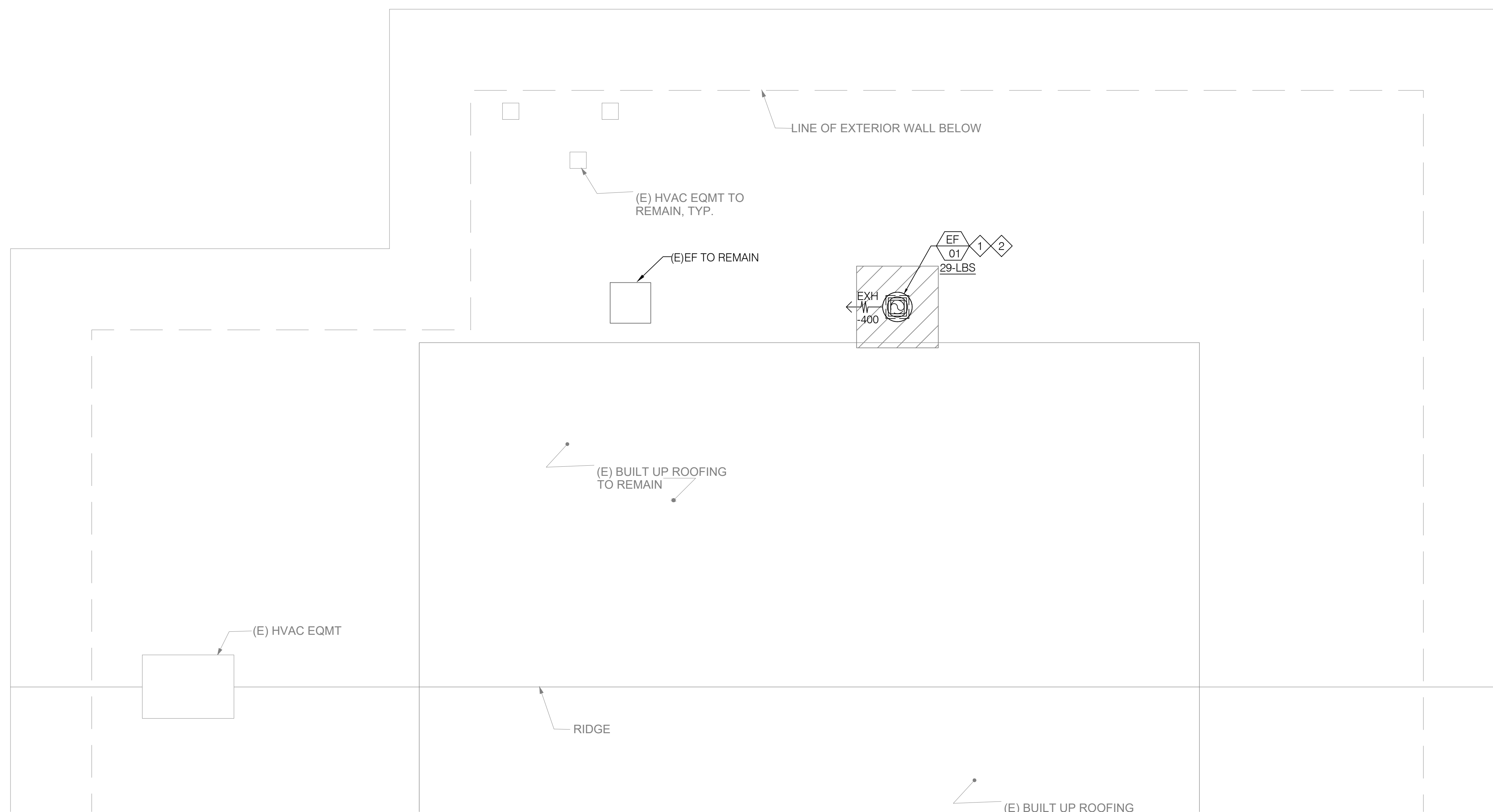
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SHEET TITLE:

MECHANICAL ROOF PLAN

SHEET NO.:

M-2.0



2 MECHANICAL ROOF PLAN-NEW
 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. CONTRACTOR SHALL VISIT JOB SITE TO VERIFY FIELD CONDITION AGAINST CONSTRUCTION PLAN AND SPECIFICATION...
2. SUBMISSION OF A CONTRACT SHALL BE CONSTRUCTED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTION OF THE EXISTING BUILDING...
3. BY ENTERING CONTACT OF CONSTRUCTION, WHETHER IT IS SHOWN OR NOT SHOWN ON THIS PLAN, CONTRACTOR IS FULLY RESPONSIBLE TO COMPLETE WORK WITH MEETING ALL APPLICABLE CODES...

PLUMBING GENERAL NOTES

- 1. PROVIDE ISOLATED COUPLINGS AND/OR UNIONS AT POINTS OF CONNECTION BETWEEN COPPER, STEEL AND BRASS PIPING.
2. ALL WATER PIPING SYSTEMS AND DRAINAGE PIPING SYSTEMS, INCLUDING SUPPLY, WASTE AND DRAIN SHALL BE INSTALLED WITH VIBRATION ISOLATORS AND SHALL BE ISOLATED FROM ANY STRUCTURAL MEMBERS...

PLUMBING GENERAL NOTES

- 10. CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES AND TRIM AS SHOWN ON THE ARCHITECTURAL PLANS. ROUGH-IN FOR ALL FIXTURES SHALL BE EXACTLY TO MEASUREMENTS FURNISHED BY FIXTURE MANUFACTURER.
11. KEEP ROUGH-IN CUTS WITHIN THE PLATE LINES AND DO NOT CUT COMPLETELY THROUGH PLATES IN SOUND-RATED WALLS.
12. PIPE LINES SHALL BE INSTALLED FREE FROM TRAPS AND AIR POCKETS AND TRUE TO LINE AND GRADE WITH SUITABLE SUPPORTS PROPERLY SPACED.

- 24. USE TEST PRESSURE OF 50 PSIG. DO NOT TEST UNTIL EVERY JOINT HAS SET AND COOLED AT LEAST 8 HOURS AT TEMPERATURES ABOVE 50 DEGREES F.
25. PLUMBING FIXTURE CONNECTION SIZE: SEE PLAN.
26. ALL HOT WATER PIPE SHALL BE INSULATED WITH INSULATION PER 2022 TITLE 24 STANDARD.

PLUMBING GENERAL NOTES

- 37. ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
38. ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
39. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 120°F.

DRAWING INDEX

Table with 2 columns: Drawing ID (P-0.1 to P-2.0) and Description (PLUMBING GENERAL NOTES, CALCULATIONS, DEMOLITION PLAN, ROOF PLAN)

SCOPE OF WORK

- 1. DEMOLISH AND REMOVE EXISTING PLUMBING FIXTURES WITH ALL ASSOCIATED PIPING AND COMPONENTS BACK TO MAIN AND SEAL WATERTIGHT.
2. INSTALL NEW PLUMBING FIXTURES PER PLAN AND SCHEDULE.
3. INSTALL NEW DOMESTIC WATER PIPING SYSTEM TO NEW PLUMBING FIXTURES WITH RE-CONNECTING BACK TO EXISTING HOT/COLD WATER MAIN.

APPLICABLE CODE

2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA GREEN BUILDING CODE
2022 NFPA 13
ALL AMENDMENTS AND SUPPLEMENTS TO ABOVE CODES

PLUMBING SEISMIC ANCHORAGE BRACING AND SUPPORT NOTES

MEP EQUIPMENT ANCHORAGE NOTE

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 DESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. 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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. 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 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).

MP O MD P PP E O - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP O MD P PP E O - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #

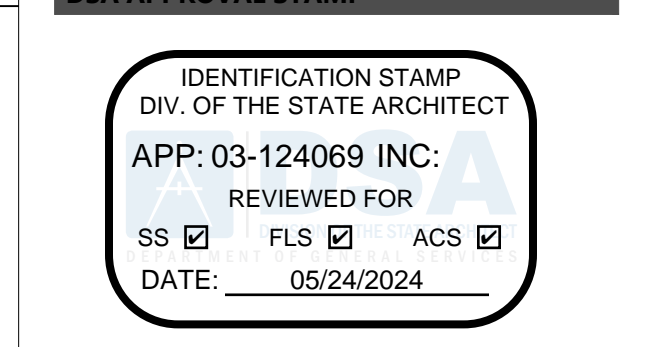
LEGENDS, SYMBOLS AND ABBREVIATIONS

Table with 3 columns: SYMBOL, ABBREV., DESCRIPTION. Includes symbols for equipment type, connection points, clean out, pipe down, pipe up, flow direction, trap primer, shut-off valve, check valve, gas cock, floor drain, pipe reducer, wall clean-out, floor clean-out, strainer, balancing valve, natural gas pressure regulator.

Table with 3 columns: ABBR., DESCRIPTION, ABBR., DESCRIPTION. Includes symbols for pipe to be removed, existing pipe to remain, natural gas, hot water supply, cold water supply, filter water, sanitary waste, grease waste, vent pipe, condensate drain, condenser water supply, condenser water return.

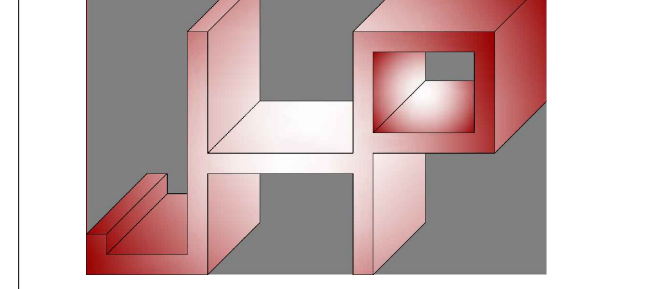
Table with 4 columns: ABBR., DESCRIPTION, ABBR., DESCRIPTION. Includes symbols for above finished floor, below grade building basement, cap for future ceiling, exhaust air, down, fresh air, floor from, grease exhaust, kitchen exhaust air, in ceiling space, insulation, make-up air, not in contract, outside air, point of connection, return air, supply air, see architectural drawing, sidewall return register, up through roof, underground/below grade, vent through roof.

DSA APPROVAL STAMP



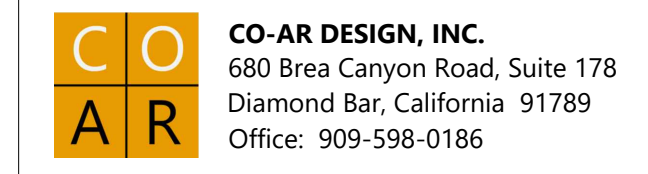
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ARCHITECT



Dennis J. Lee, NCBAR dennisj@coar-design.com

PROJECT



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

Table with 2 columns: SUBMITTAL REVISIONS, DATE. Includes Schematic Design, Design Development, DSA Submittal, DSA PC Revision.

PROJECT NO: 23071 SCALE: AS SHOWN DATE: 12/4/2023 DRAWN BY: CY / CL CHECKED BY: JP

PLUMBING GENERAL NOTES, SCOPE OF WORK, CODE, INDEX AND STATEMENT

SHEET NO.

P-0.1

BlMdbod - COAR - CONE - 23 - BlMdbod Basic for Arch/Lead 12/20/23 10:49:50 Blandford Kitchen Mod. Monday, December 4, 2023, 4:51 PM

PLUMBING EQUIPMENT SCHEDULES, CALCULATION, AND TABLES

PLUMBING FIXTURE SCHEDULE*

TAG	FIXTURE	MAX WATER USAGE	DESCRIPTION
FD-1	FLOOR DRAIN	N/A	ZURN/ZN-415-B. CAST IRON BODY, NO HUB WITH SEEPAGE PAN AND FLAT, ROUND NICKEL BRONZE STRAINERS NOT LESS THAN 5/8" DIAMETER FOR 2"Ø OUTLET BODIES, 7/8" FOR 3"Ø OUTLET BODIES AND 8/8" FOR 4"Ø OUTLET BODIES, WITH MAXIMUM OF 1/2" SQUARE HOLES OR SLOTS NOT LARGER THAN 1/2"Ø BY 1 1/2"Ø.
FS-2	FLOOR SINK	N/A	ZURN/Z1901 OR ZN-1900, 6"Ø TO 8"Ø DEEP, SQUARE CAST IRON ACID-RESISTANT ENAMEL, BOTTOM ALUMINUM DOME STRAINER WITH NICKEL BRONZE RIM AND GRATE TOP.
A11	HAND SINK	0.5-GPM	SEE EQUIPMENT SCHEDULE ON ARCHITECTURAL PLAN FOR FIXTURE DETAILS.
A14	MOP SINK	1.28-GPM	SEE EQUIPMENT SCHEDULE ON ARCHITECTURAL PLAN FOR FIXTURE DETAILS.
A18	3-COMP SINK	1.5-GPM	SEE EQUIPMENT SCHEDULE ON ARCHITECTURAL PLAN FOR FIXTURE DETAILS.

* ALL PLUMBING FIXTURES AND FITTING SHALL MEET THE STANDARDS REFERENCED IN TABLE 604.1 AND TABLE 701.2 OF 2022 CALIFORNIA PLUMBING CODE. ALSO SEE DIV. 23 SEC. 22-1000 FOR DETAILED SPECIFICATIONS

HOT WATER HEATER - 01 (WH-01) SIZING

APPENDIX E
HOT WATER DEMANDS

FIXTURES	NO. OF UNITS	X	GPH	=	TOTAL GPH
(E) LAVATORY	2	X	5.0	=	10.0
(E) #KS KITCHEN SINK	1	X	5.0	=	5.0
#A11 HAND SINK	1	X	5.0	=	5.0
#A14 MOP SINK	1	X	25.0	=	25.0
#A18 3-COMP-SINK	1	X	45.0	=	45.0
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
TOTAL		X		=	85

I. Calculating the BTU (British Thermal Units) for kitchen gas water heater:
 85 GPH x 80 degrees rise x 11" = 74,800 BTU < 199,999 BTU BY (E) WATER HEATER
 *8.33 lbs./gal. of water = 11.1 (rounded off = 11)
 0.75 (thermal efficiency of gas)
 The gas hot water heater with at least a rating of _____ BTU

II. Calculating the KW (kilowatt) requirement for kitchen electric water heater:
 Total GPH = _____ GPH = _____ KW
 gal/KWH
 *KW= GPH x °RISE x 0.33
 85 x 3412 BTU
 KW

Please make the necessary changes or alterations, as indicated above, for the minimum supply of hot water for the food establishment. The recovery rate of the properly sized water heater must meet the peak demands of the total GPH.

ENR 16-01 07-09-2010 22 PLAN CHECK GUIDE

ITEM	LOCATION	SPECIFICATIONS
DOMESTIC COLD WATER PIPE	ABOVE GRADE	TYPE L COPPER, PIPE SHALL CONFORM WITH ASTM-(B42, B43, B75, B88, B135, B251, B302, B447). PIPE FITTING SHALL CONFORM WITH ASTM-(B16.15, B16.18, B16.22, B16.26, B16.50, B16.51), ASSE 1061.
DOMESTIC COLD WATER PIPE	BELOW GRADE	TYPE K COPPER, PIPE SHALL CONFORM WITH ASTM-(B42, B43, B75, B88, B135, B251, B302, B447). PIPE FITTING SHALL CONFORM WITH ASTM-(B16.15, B16.18, B16.22, B16.26, B16.50, B16.51), ASSE 1061.
SANITARY WASTE AND VENT PIPE	ABOVE GRADE	CAST IRON NO-HUB, PIPE SHALL CONFORM WITH ASTM-D2661, ASTM D2680, PIPE FITTING SHALL CONFORM WITH ASTM D2661, ASTM D2680
SANITARY WASTE AND VENT PIPE	BELOW GRADE	CAST IRON NO-HUB, PIPE SHALL CONFORM WITH ASTM-D2661, ASTM D2680, PIPE FITTING SHALL CONFORM WITH ASTM D2661, ASTM D2680

* SCHEDULE SHOWN FOR QUICK REFERENCE ONLY. SEE COMPLETE MATERIAL SPECIFICATIONS ON PB-0.1.
 * MATERIALS FOR DRAINAGE PIPING SHALL BE IN ACCORDANCE WITH ONE OF THE REFERENCED STANDARDS IN TABLE 701.2. MATERIALS FOR BUILDING WATER PIPING AND BUILDING SUPPLY PIPING SHALL COMPLY WITH THE APPLICABLE STANDARD REFERENCED IN TABLE 604.1.
 * ALL METALLIC NATURAL GAS PIPE AND JOINTING SHALL COMPLY WITH STANDARDS LISTED UNDER CPC 1208.6.
 * FIXTURE UNIT COUNT AT EXISTING BATHROOM. N.I.C.

PLUMBING FIXTURE UNIT (FU) CALCULATION

TAG	FIXTURE	TYPE	WATER			SANITARY WASTE		
			QTY	EACH	TOTAL	QTY	EACH	TOTAL
FS	FLOOR SINK		--	N/A	--	1	4.0	4.0
FD	FLOOR DRAIN		--	N/A	--	2	2.0	4.0
TP	TRAP PRIMER		1	1.0	1.0	--	N/A	--
(E)KS	KITCHEN SINK		1	1.5	1.5	1	1.0	1.0
A11	HAND SINK		1	1.0	1.0	1	1.0	1.0
A14	MOP SINK		1	3.0	3.0	1	3.0	3.0
A18	3-COMP-SINK		1	4.0	4.0	1	**	--
A31	FOOD WASTE DISPOSER		1	1.0	1.0	1	**	--
TOTAL FU			10+(E)15"=25			13		

WATER SUPPLY SYSTEM:
 (PER 2022 CPC TABLE 610.4, 46-60 PSI)
 DISTANCE TO MOST REMOTE FIXTURE = 200 FT.
 MIN. REQUIRED SIZE OF WATER METER/MAIN: 1"Ø METER/ 1 1/4"Ø MAIN
 EXISTING METER AND COLD MAIN: (E) 1"Ø METER/ (E) 2"Ø MAIN

WASTE AND VENT SYSTEM:
 (PER 2022 CPC TABLE 703.2)
 MINIMUM REQUIRED SIZE OF WASTE MAIN: 3"Ø SW
 EXISTING BUILDING WASTE MAIN: 3"Ø SW
 PROVIDED PLUMBING WASTE MAIN: (E) 3"Ø SW
 MINIMUM REQUIRED SIZE OF VENT PIPE: (1) 3"Ø V.
 PROVIDED PLUMBING VENT: (1) 3"Ø V

MINIMUM PLUMBING FIXTURE BRANCH PIPE SIZE*

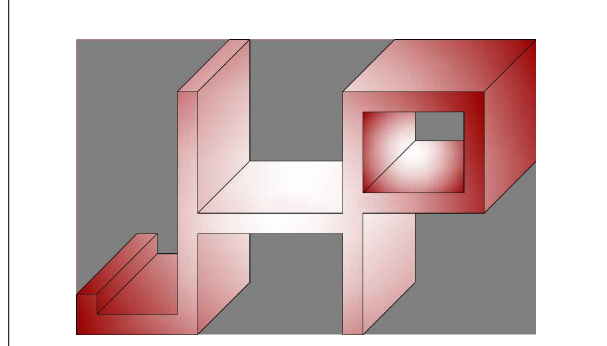
TAG	FIXTURE	WASTE	TRAP	VENT	CW	HW	REMARK
FD	FLOOR DRAIN	2"Ø	2"Ø	**	--	--	
FS	FLOOR DIAIN	3"Ø	2"Ø	**	--	--	
TP	TRAP PRIMER	--	--	**	1/2"Ø	--	①
A11	HAND SINK	2"Ø	1 1/2"Ø	1 1/2"Ø	1/2"Ø	1/2"Ø	①②
A14	MOP SINK	2"Ø	2"Ø	2"Ø	1/2"Ø	1/2"Ø	①③
A18-1	3-COMP-SINK	2"Ø	--	--	1/2"Ø	1/2"Ø	①④
A18-2					(2) 3/4"Ø	(2) 3/4"Ø	
A31	FOOD WASTE DISPOSER	2"Ø	--	--	1/2"Ø	--	①④

* PIPE SIZES SHOWN ARE NOT FIXTURE CONNECTION SIZE BUT BRANCH LINE SIZE. SEE FINAL PRODUCT MANUFACTURER RECOMMENDED PIPING CONNECTION SIZES PRIOR TO INSTALL. PROVIDE REDUCER BETWEEN BRANCH LINE AND CONNECTION AS REQUIRED.
 ** UNDERGROUND VENT PIPE AND TRAP ARM EXTENSION SHALL COMPLY WITH UPC TABLE 1002.2.
 REMARKS
 ① PROVIDE WATER HAMMER ARRESTER FOR EACH FIXTURE BANK AND MIN. 18" AIR CHAMBER AT EACH PLUMBING FIXTURE.
 ② PROVIDE THERMAL MIXING VALVE AND SET HOT WATER TEMPERATURE NO HIGHER THAN 110°F.
 ③ PROVIDE BACKFLOW PREVENTION DEVICE AT EQUIPMENT CONNECTION
 ④ DISCHARGE TO NEARBY FLOOR SINK WITH AIR GAP INDIRECTLY

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 ADR: 3119 Central Parkway, Dublin, CA 94568
 TEL: 510-788-6029
 CELL: 510-468-0613
 FAX: 510-788-6039



ARCHITECT
CO-AR DESIGN, INC.
 680 Brea Canyon Road, Suite 178
 Diamond Bar, California 91789
 Office: 909-598-0186
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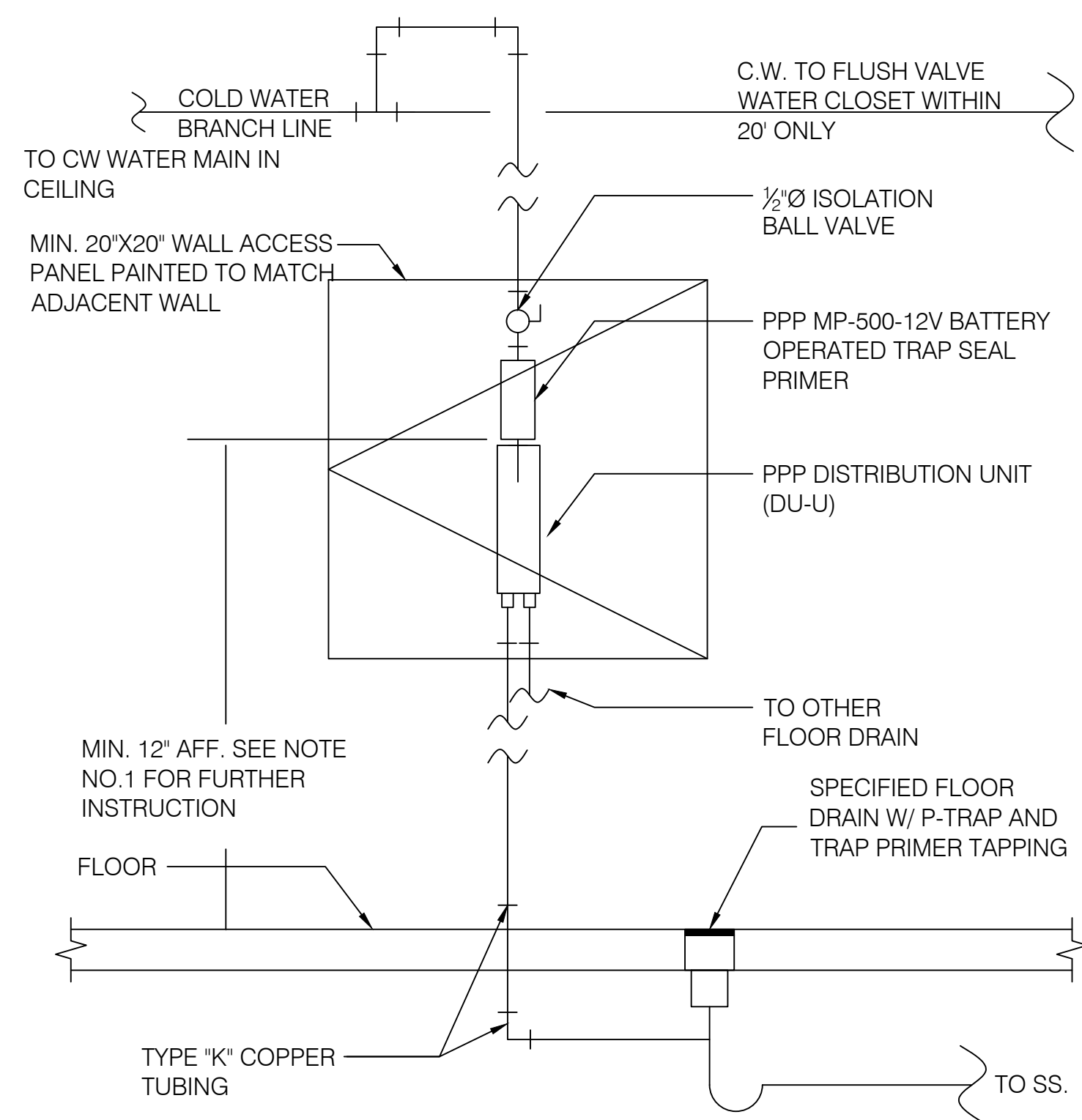
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 4. DSA PC REVISION 04/01/2024

PROJECT NO: 23071
 SCALE: AS SHOWN
 DATE: 12/4/2023
 DRAWN BY: CY / CL
 CHECKED BY: JP
 SHEET TITLE:

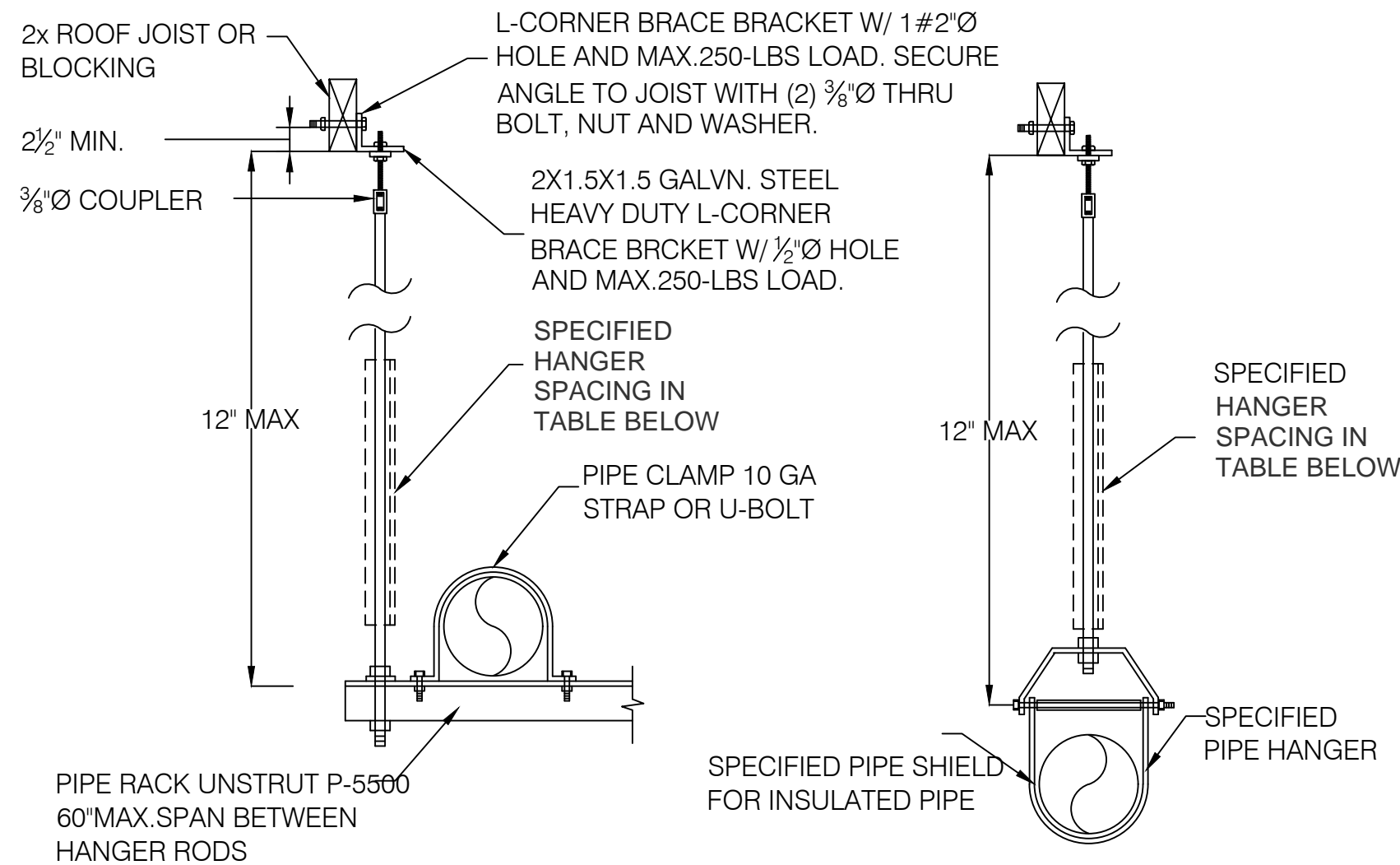
SCHEDULES, CALCULATIONS AND TABLES

SHEET NO:

P-0.2



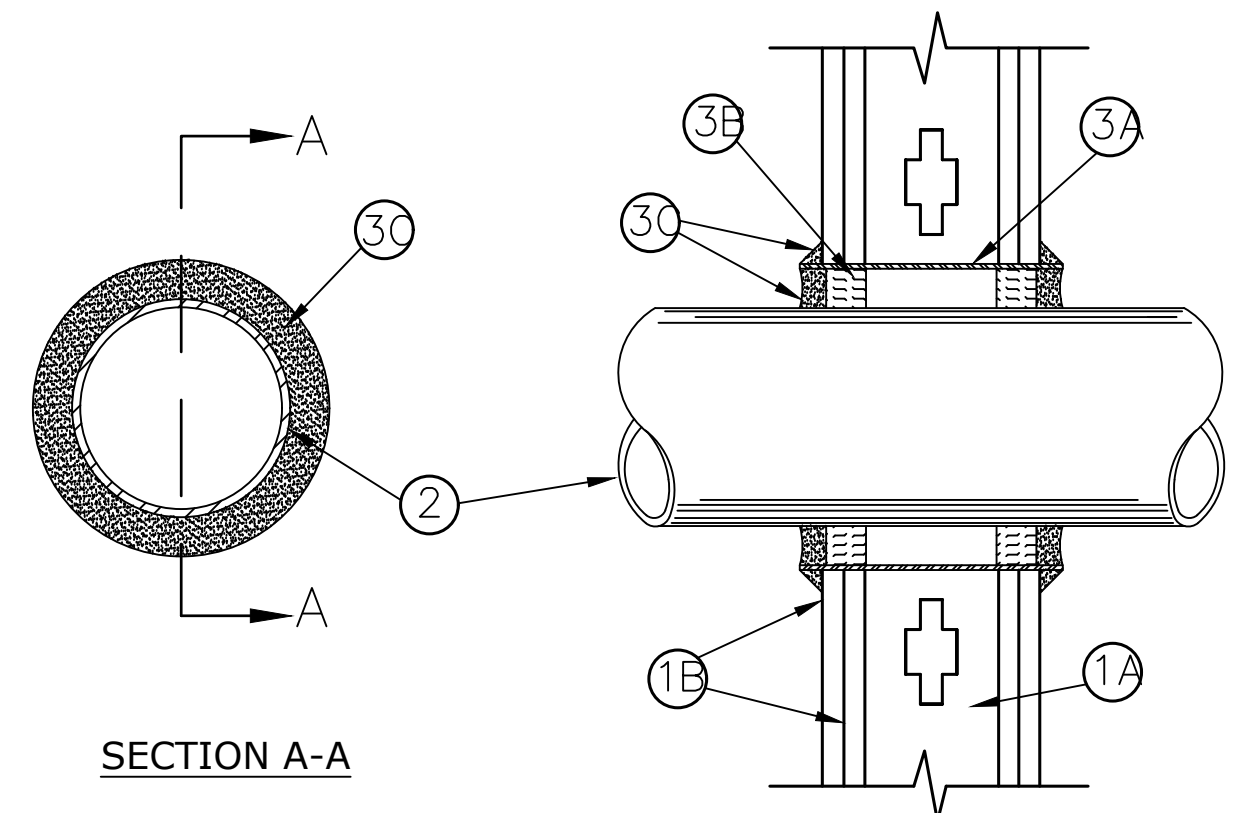
1 TRAP-PRIMER PIPING DETAIL
SCALE: N.T.S.



PIPE SIZE	HANGER ROD SIZE	MAX. WEIGHT PER HANGER LOAD	MAXIMUM PIPE SUPPORT SPACING
1/2"-1 1/2"	3/8"	100 LBS	6'-0"
2"-3"	1/2"	100 LBS	10'-0"

- NOTES:
- SUPPORT PIPES AT SPACING INDICATED IN TABLE ABOVE AND AT EACH CHANGE OF DIRECTION.
 - MULTIPLE PIPES MAY BE SUPPORTED ON A COMMON TRAPEZE. SIZE AND SPACING SHALL BE GOVERNED BY CUMULATIVE WEIGHT OF SUPPORTED PIPING.
 - ALL PIPE HANGER AND SUPPORT SHALL CONFORM TO 2022 CPC TABLE 313.6 AND 313.1

2 PIPE SUPPORT DETAIL
SCALE: N.T.S.



SECTION A-A
SYSTEM NO. W-L-1003 SEPTEMBER 03, 2004
(FORMERLY SYSTEM NO. 147)
F RATINGS - 1 AND 2 HR (SEE ITEM 1) - T RATING - 0 HR

- WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-1/2 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
 - GYPSUM BOARD* - NOM 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 15 IN.
 THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN PIPES, CONDUITS OR TUBING AND THE STEEL SLEEVE (ITEM 3A) SHALL BE MIN OF 0 IN. (POINT CONTACT) TO MAX 2-3/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - CONDUIT - NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
 - COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS.
 - STEEL SLEEVE - CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.019 IN. THICK (NO. 28 GAUGE) GALV SHEET STEEL AND HAVING A MIN 2 IN. LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS 1 TO 4 IN. SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROXIMATELY 1/2 TO 2 IN. BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM WALLBOARD LAYERS.
 - PACKING MATERIAL - MIN 1 IN. THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WALL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MIN 1/2 IN. FROM END OF STEEL SLEEVE (FLUSH WITH OR RECESSED INTO GYPSUM WALLBOARD SURFACE) ON BOTH SIDES OF WALL ASSEMBLY.
 - PACKING MATERIAL - (NOT SHOWN) - AS AN ALTERNATE TO ITEM B. NOM 1 IN. THICK POLYETHYLENE BACKER ROD MAY BE USED. THE BACKER ROD IS TO BE RECESSED WITHIN THE STEEL SLEEVE A MIN OF 1 IN. FROM EACH SURFACE OF WALL.
 - FILL VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - WHEN MINERAL WOOL BATT INSULATION IS USED, APPLIED TO FILL THE STEEL SLEEVE TO A MIN DEPTH OF 1/2 IN. ON BOTH SIDES OF WALL ASSEMBLY. WHEN BACKER ROD IS USED, A MIN THICKNESS OF 1 IN. OF CP-25WB+ CAULK IS REQUIRED FLUSH WITH SURFACE OF WALL. A NOM 1/4 IN. DIAM CONTINUOUS BEAD OF CAULK OR SEALANT SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE STEEL SLEEVE AT ITS EGRESS FROM THE GYPSUM WALLBOARD LAYERS ON BOTH SIDES OF THE WALL ASSEMBLY.

3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARKING

3 PIPE THRU RATED WALL DETAIL
SCALE: N.T.S.

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ADR: 3119 Central Parkway,
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TEL: 510-788-6029
CELL: 510-458-0913
FAX: 510-788-6039



ARCHITECT:

CO-AR DESIGN, INC.
680 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186

Dennis J. Lee, NCARB dennis@coar-design.com



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748
CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTALS/REVISIONS:

1. SCHEMATIC DESIGN	9/19/2023
2. DESIGN DEVELOPMENT	12/4/2023
3. DSA SUBMITTAL	02/26/2024
4. DSA PC REVISION	04/01/2024

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PLUMBING DETAILS

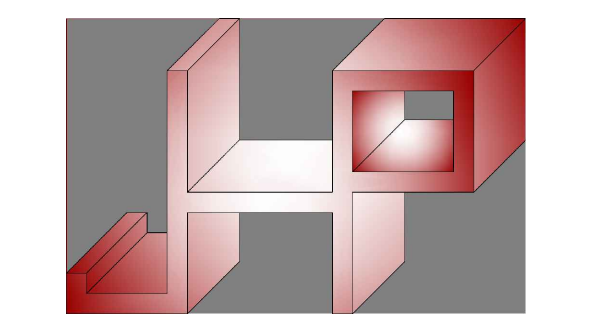
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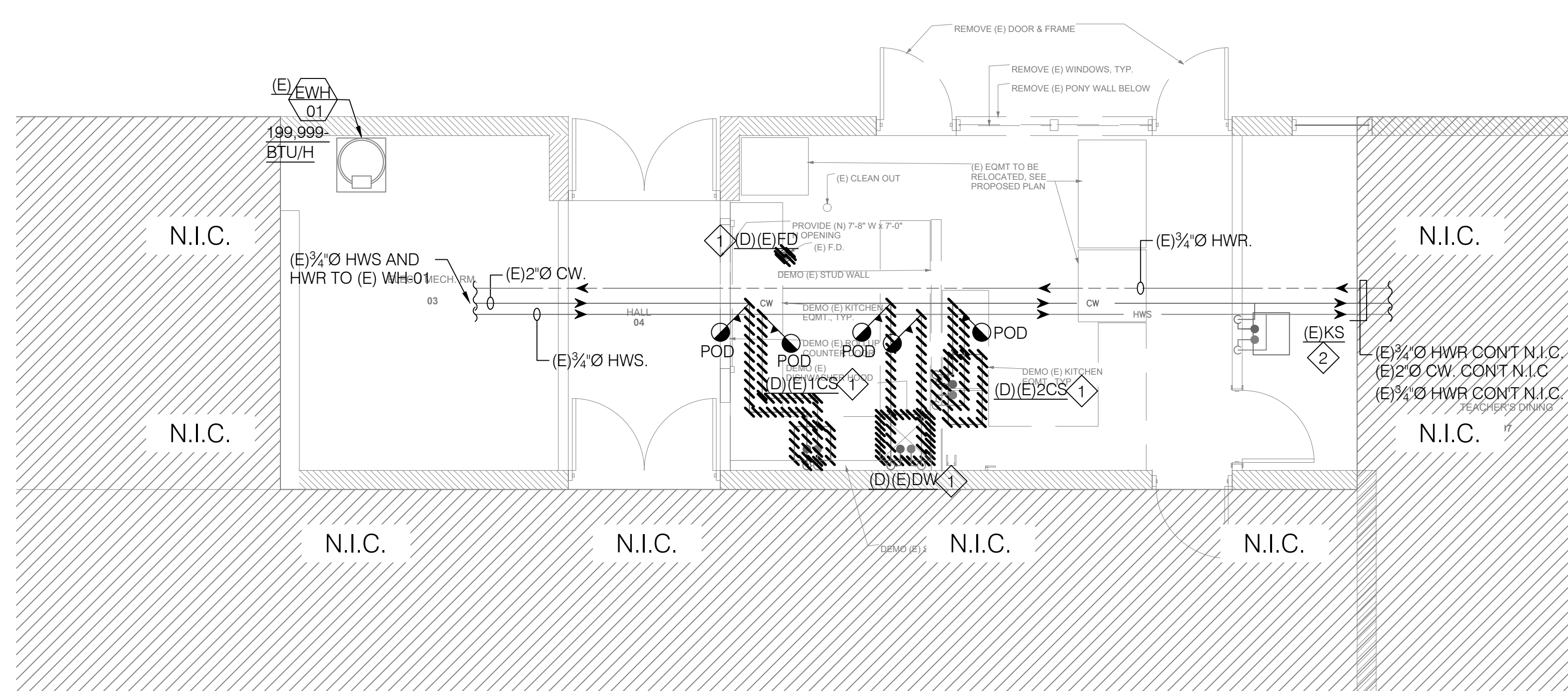
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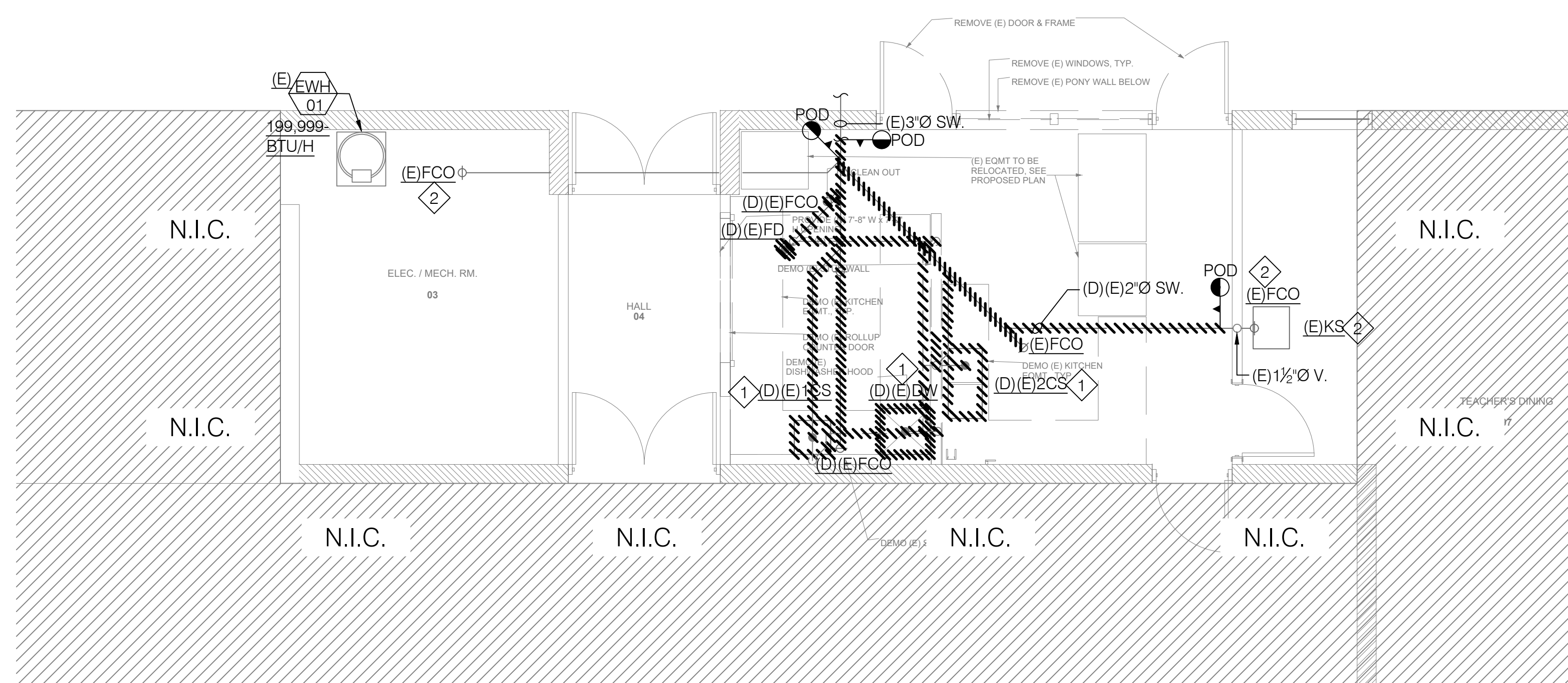
- 1 DEMOLISH(E) PLUMBING FIXTURES. CUT AND CAP CONNECTION BACK TO MAIN.
- 2 (E) PLUMBING FIXTURE TO REMAIN AND REUSE.



1 ENLARGED DOMESTIC WATER PIPING PLAN- DEMO
 SCALE: 3/16" = 1'-0"

SHEET NOTES:

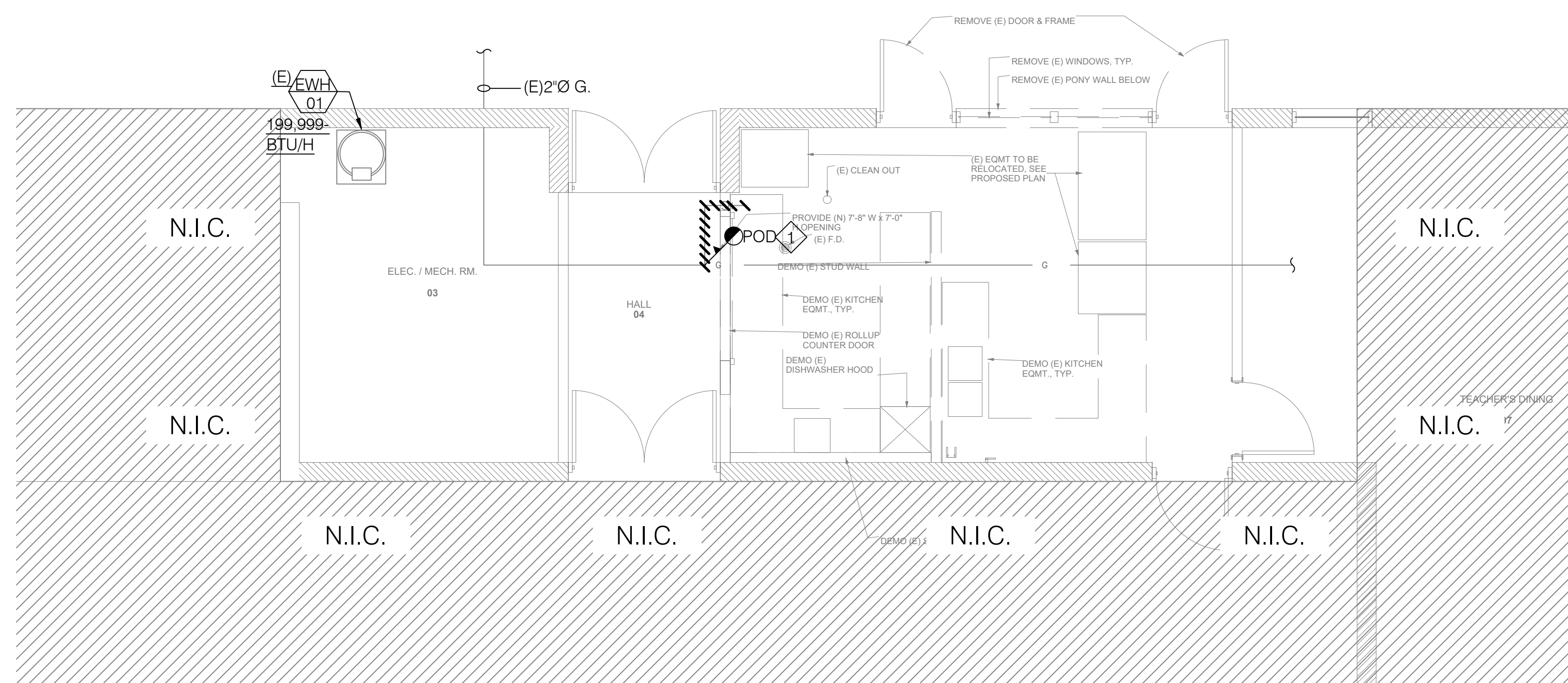
- 1 DEMOLISH(E) PLUMBING FIXTURES. CUT AND CAP CONNECTION BACK TO MAIN.
- 2 (E) PLUMBING FIXTURE TO REMAIN AND REUSE.



2 ENLARGED WASTE AND VENT PLAN- DEMO
 SCALE: 3/16" = 1'-0"

SHEET NOTES:

- 1 DEMOLISH(E) NATURE GAS LINE. CUT AND CAP CONNECTION BACK TO MAIN.



3 ENLARGED NATURE GAS PIPING PLAN- DEMO
 SCALE: 3/16" = 1'-0"



ARCHITECT:
CO-AR DESIGN, INC.
 680 Brea Canyon Road, Suite 178
 Diamond Bar, California 91789
 Office: 909-598-0186

Dennis J. Lee, NCARB dennisl@coar.design.com

PROJECT:



BLANDFORD ES KITCHEN MODERNIZATION

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 ROWLAND HEIGHTS, CA 91748
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ROWLAND UNIFIED SCHOOL DISTRICT
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 ROWLAND HEIGHTS, CA 91748

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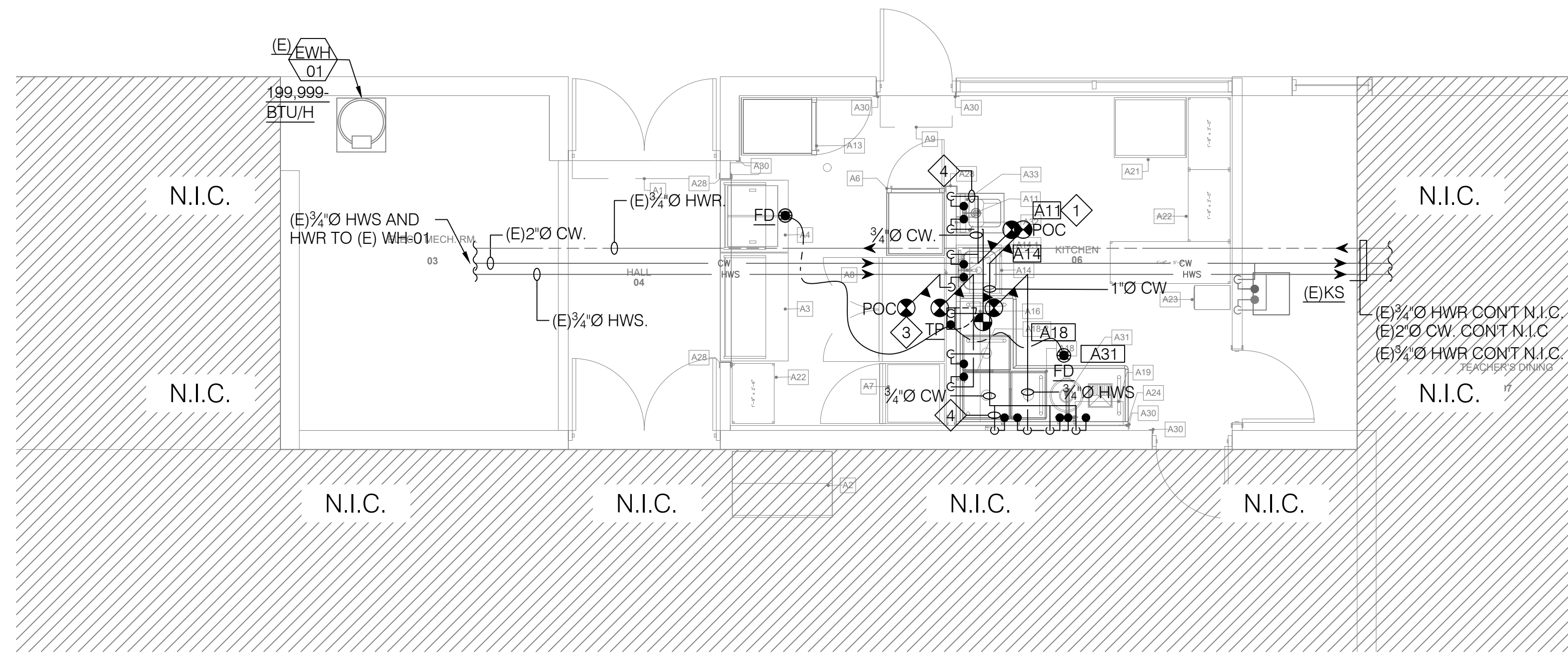
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4	DSA PC REVISION	04/01/2024

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 DRAWN BY: CY / CL
 CHECKED BY: JP

PLUMBING DEMOLITION PLAN

SHEET NO:

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1 ENLARGED DOMESTIC WATER PIPING PLAN- NEW
SCALE: 3/16" = 1'-0"

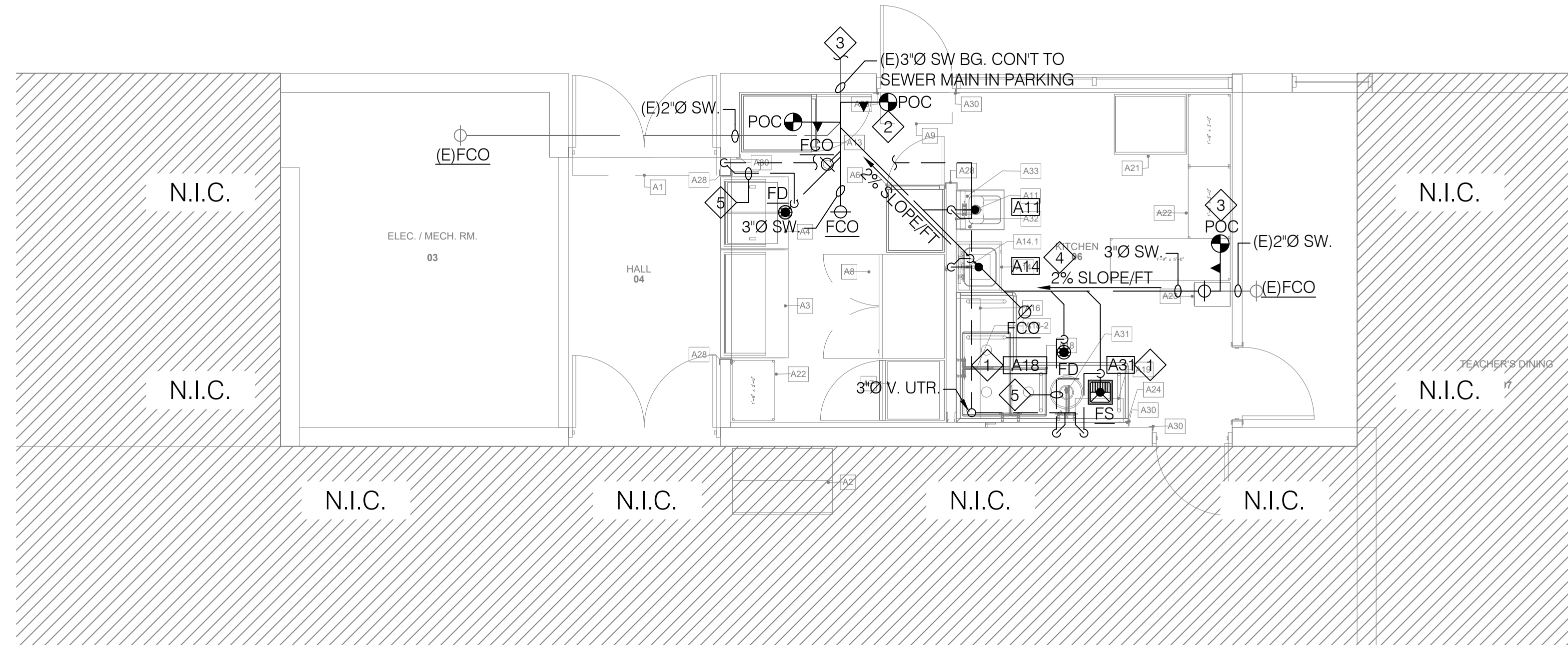
SHEET NOTES:

- 1 PROVIDE 1/2" CW/HWS CONNECTION TO NEW FIXTURE UNIT PER PLAN.
- 2 (E) PLUMBING FIXTURE TO REMAIN AND REUSE.
- 3 EXTEND (E) 1/2" CW/HWS TO (N) FIXTURE UNIT W/ (N) 1/2" CW/HWS PER PLAN.
- 4 PROVIDE DRAIN AND VENT PIPE PER SIZE SHOWN ON 'PLUMBING FIXTURE BRANCH PIPE SIZE TABLE' SHOWN ON PB-0.2, U.N.O. TYPICAL OF ALL.
- 5 EXISTING 199 MBTH/H INPUT 60-GAL CONDENSING TANK TYPE WATER HEATER TO REMAIN. N.I.C.

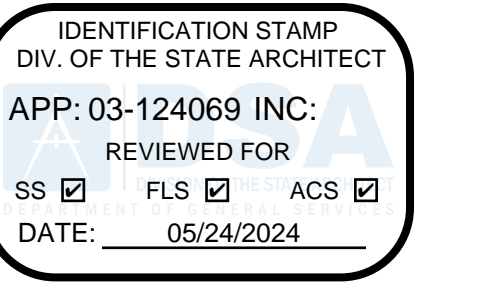
#	QTY	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NO. / SPEC.	FURNISH.	INSTALL.	ELECTRICAL					PLUMBING			GAS		WASTE	REMARKS	
							VOLT	PHASE	KW	AMP	HP	CONN.	R.I.H.	CW	HW	R.I.H.			SIZE
A1	1	AIR CURTAIN	MARS AIR SYSTEMS	LPV272-1U	G.C.	G.C.	115	1	0.3	2.6		DIRECT	84"						
A2	1	(E) MILK COOLER	EXISTING	EXISTING	OWNER	G.C.	115	1	0.35	3		PLUG	24"					1480 BTU/HR HEAT REMOVAL	
A3	1	(E) SERVING COUNTER	EXISTING	EXISTING	OWNER	G.C.													
A4	1	(E) HOT SERVING COUNTER MOBILE	EXISTING	EXISTING	OWNER	G.C.	120	1	1.2	10		PLUG	24"						
A6	1	(E) HOT CABINET	CRES COR	H137S203	OWNER	G.C.	120	1	1.5	12		PLUG	70"						
A7	1	(E) FREEZER, REACH-IN	EXISTING	EXISTING	OWNER	G.C.	115	1	0.87	7.6		PLUG	84"						
A8	1	(E) REFRIGERATOR, REACH-IN	EXISTING	EXISTING	OWNER	G.C.	115	1	0.79	6.9		PLUG	84"						
A9	1	AIR CURTAIN	MARS AIR SYSTEMS	NH236-1U	G.C.	G.C.	115	1	0.59	5.1		DIRECT							
A11	1	HAND SINK	ADVANCE TABCO	7-PS-25	G.C.	G.C.							1/2"	1/2"	18"			1 1/2"	
A13	1	RETHERM CABINET	CRES COR	RO-151-FUA-18DE	G.C.	G.C.	208	3	7.07	34		PLUG	70"					2"	
A14	1	MOP SINK CABINET	ADVANCE TABCO	9-OP-84	G.C.	G.C.													
A14.1	1	MOP SINK FAUCET	ADVANCE TABCO	K-240	G.C.	G.C.							1/2"	1/2"	36"				
A16	1	WALL SHELF, SINGLE	EAGLE GROUP	WS1260-16/3	G.C.	G.C.													
A18	1	3 COMP SINK 'L' SHAPE	CUSTOM FABRICATED	CUSTOM	G.C.	G.C.													
A18-1	1	PRE-RINSE FAUCET	T&S BRASS	B-0133-12-CR-B	G.C.	G.C.							1/2"	1/2"	18"				
A18-2	2	BIG-FLO MIXING FAUCET	T&S BRASS	B-0292	G.C.	G.C.							3/4"	3/4"	18"				
A19	1	WALL SHELF, SINGLE	EAGLE GROUP	WS1224-16/3	G.C.	G.C.													
A21	1	ACCESSIBLE WORK TABLE, MOBILE	EAGLE GROUP	T3036STE	G.C.	G.C.	120	1	1.2	10		PLUG	48"					(1) GFCI CONVENIENCE RECEPTACLE	
A22	4	DRY STORAGE SHELVING	METRO	METROMAX Q	G.C.	G.C.													
A23	1	(4) TIER LOCKER	OMCAN	13130	G.C.	G.C.													
A24	1	WALL FLASHING	ADVANCE TABCO	WF20	G.C.	G.C.													
A28	3	STAINLESS STEEL WALL END CAP	THE CORNER GUARD STORE	EC3P-SS4-1648-1.5-6	G.C.	G.C.													
A30	5	STAINLESS STEEL CORNER GUARD	ADVANCE TABCO	CG-84	G.C.	G.C.													
A31	1	FOOD WASTE DISPOSER	INSINKERATOR	SS-200	G.C.	G.C.	115	1	17.4	2	DIRECT	24"	1/2"	18"			1 1/2"		
A32	1	SOAP DISPENSER	DEB		OWNER	G.C.													
A33	1	PAPER TOWEL DISPENSER	TORK	772828	OWNER	G.C.													

SHEET NOTES:

- 1 CONTRACTOR SHALL PROVIDE DRAINAGE TO FIXTURE/EQUIPMENT AND INDIRECTLY DISCHARGE TO NEAR-BY FL. SINK AT 1" ABOVE FLOOD RIM.
- 2 (N) 3" SW CONNECT TO (E) 3" SW BY BASE BUILDING. CONTRACTOR IS RESPONSIBLE TO VERIFY EXACT LOCATION, SIZE, AND INVERT OF POC AND CONFIRM CONTRACTIBILITY OF PROPOSED PIPING LAYOUT PRIOR TO CONSTRUCT.
- 3 (E) 2" SW CONNECT TO (N) 3" SW.
- 4 ALL HORIZONTAL SANITARY WASTE AND VENT PIPES SHALL BE INSTALLED TO MAINTAIN A MINIMUM 1/8" PER-FOOT-DROP OR 2% SLOPED TOWARD DISCHARGE. TYPICAL OF ALL.
- 5 PROVIDE DRAIN AND VENT PIPE PER SIZE SHOWN ON 'PLUMBING FIXTURE BRANCH PIPE SIZE TABLE' SHOWN ON PB-0.2, U.N.O. TYPICAL OF ALL.

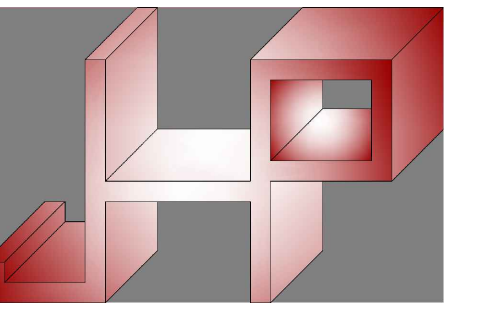


2 ENLARGED WASTE AND VENT PLAN- NEW
SCALE: 3/16" = 1'-0"



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NOTES



JHP Engineering and Design Services Inc.

ADR: 3119 Central Parkway, Dublin CA, 94568
TEL: 510-788-6029
CELL: 510-468-9013
FAX: 510-788-6039



ARCHITECT:

CO-AR DESIGN, INC.
680 Brea Canyon Road, Suite 178
Diamond Bar, California 91789
Office: 909-598-0186

Dennis J. Lee, NCARB dennisl@coar-design.com

PROJECT:



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748
CLIENT:

ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTALS REVISIONS	DATE
1. SCHEMATIC DESIGN	9/19/2023
2. DESIGN DEVELOPMENT	12/4/2023
3. DSA SUBMITTAL	02/26/2024
4. DSA PC REVISION	04/01/2024

PROJECT NO: 23071
SCALE: AS SHOWN
DATE: 12/4/2023
DRAWN BY: CY / CL
CHECKED BY: JP

PLUMBING PLAN-NEW

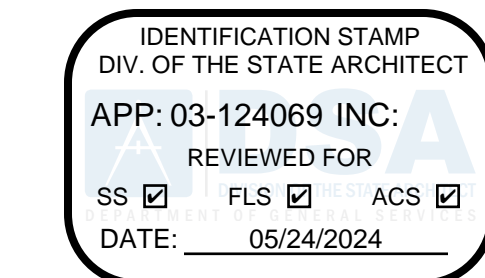
SHEET NO:

P-1.1

SHEET NOTES:

- 1 PLUMBING VENT SHALL TERMINATE AT MIN. 6' ABOVE FINISHED ROOF AND MAINTAIN MIN. 3-FEET FROM PROPERTY LINE AND 10-FEET FROM OUTSIDE AIR INTAKE. TYPICAL.

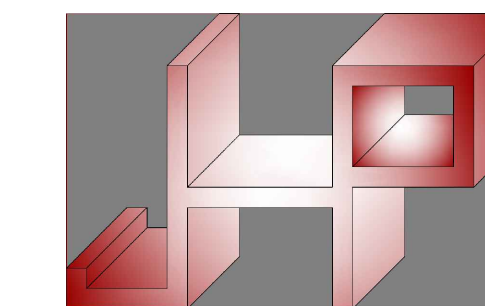
DSA APPROVAL STAMP



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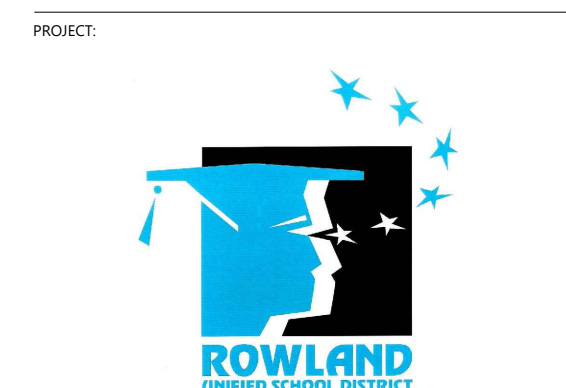
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ADR: 3119 Central Parkway, Dublin, CA 94568
 TEL: 510-788-6029
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CO-AR DESIGN, INC.
 680 Brea Canyon Road, Suite 178
 Diamond Bar, California 91789
 Office: 909-598-0186

Dennis J. Lee, NCARB dennisl@coar.design



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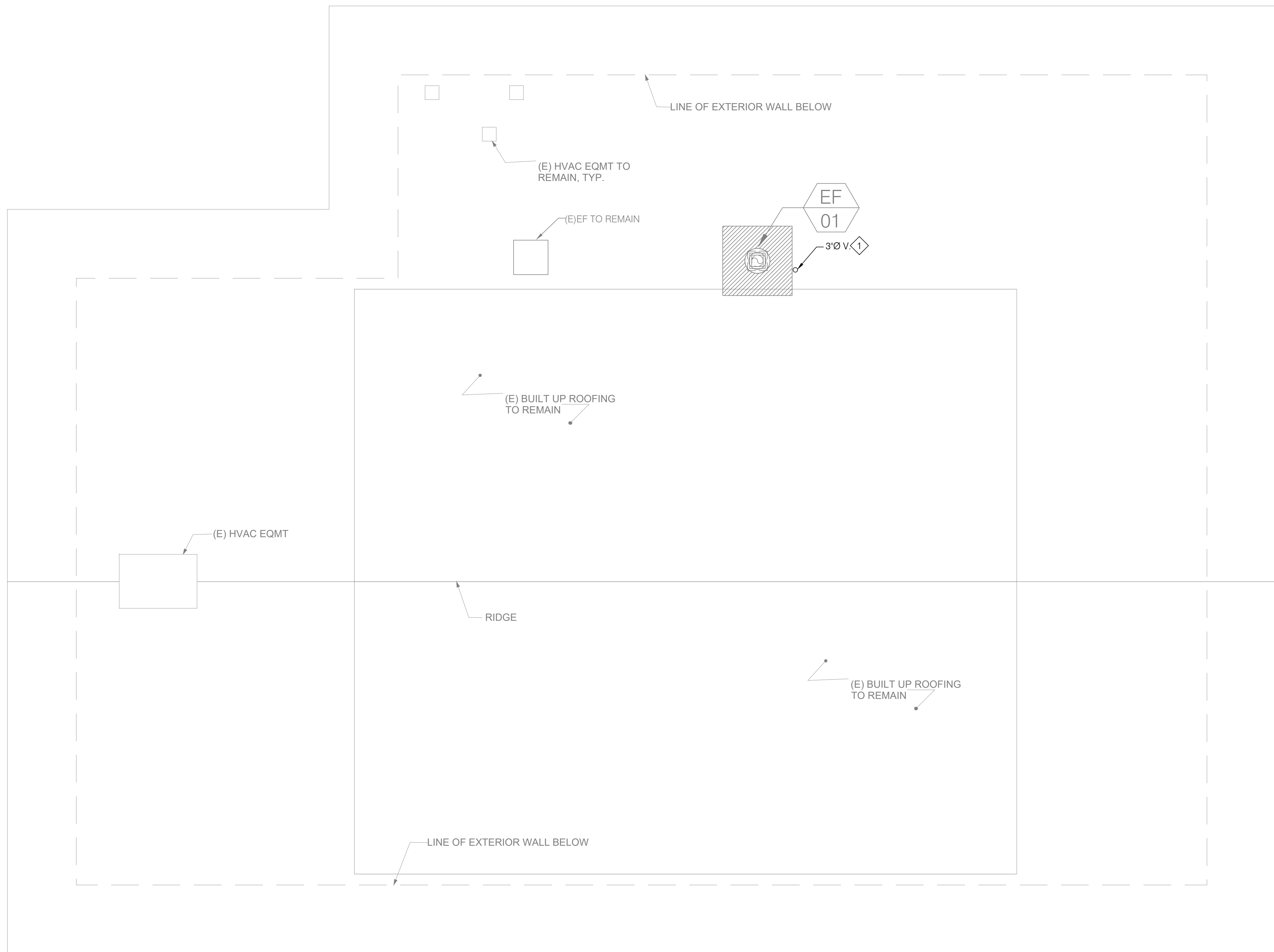
CLIENT:
 ROWLAND UNIFIED SCHOOL DISTRICT
 1830 NOGALES STREET
 ROWLAND HEIGHTS, CA 91748

SUBMITTALS/REVISIONS	DATE
1. SCHEMATIC DESIGN	9/19/2023
2. DESIGN DEVELOPMENT	12/4/2023
3. DSA SUBMITTAL	02/26/2024
4. DSA PC REVISION	04/01/2024

PROJECT NO: 23071
 SCALE: AS SHOWN
 DATE: 12/4/2023
 DRAWN BY: CY / CL
 CHECKED BY: JP

PLUMBING ROOF PLAN

SHEET NO:
P-2.0



1 PLUMBING ROOF PLAN
 SCALE: 1/4" = 1'-0"

B:\McCloud_Co-AR-COM-23 - BIM\McCloud Base for Arch\2023\15-6650-Blandford Kitchen Mod Monday, December 4, 2023 4:31 PM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124069 INC.
REVIEWED FOR
DATE: 05/24/2024

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NOTES:

ELECTRICAL SYMBOLS

- A LED LIGHTING FIXTURE "TYPE A".
- AE LED LIGHTING FIXTURE "TYPE AE", SAME AS "TYPE A" EXCEPT WITH EMERGENCY BATTERY PACK.
- A PANEL DESIGNATION, LETTER IDENTIFIES THE PANEL.
- ⊕ DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5-15R. +18" A.F.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- ⊕⊕ GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5-15R. +18" UNLESS OTHERWISE NOTED. +42" NEAR SINK.
- ⊕ SINGLE GANG RECEPTACLE 250V, 50 AMP., NEMA 6-50R.
- ⊕ JUNCTION BOX: MOUNT +18" UNLESS NOTED OTHERWISE.
- ⊕ JUNCTION BOX: MOUNTED IN ATTIC SPACE OR UNDER CANOPY.
- DATA/TELEPHONE OUTLET, FLUSH AS BOX WITH 3/4" CONDUIT TO CEILING SPACE. PROVIDE CAT-6a JACK WITH CAT-6a CABLE TO IDF RACK.
- POWER PACK, "HLIGHT #nP160".
- 0-10V DIMMER SWITCH, "HLIGHT #nPDM2PDX".
- CORNER WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 1/2", CAT-5 LIGHTING CONTROL CABLE.
- 2#16 TSP DIMMING CONTROL CABLE.
- HOMERUN TO PANEL "A", CIRCUITS 1, 3, 5.
- CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS.
- CONDUIT: IN OR BELOW FLOOR OR BELOW GRADE.
- 3/4", 2#12 & 1#12 GND. 3/4", 3#12 & 1#12 GND. 3/4", 4#12, 1#12 GND.
- 3/4", 5#12 & 1#12 GND. 1", 6#12 & 1#12 GND. 1", 8#12 & 1#12 GND.
- 3/4", 2#6 & 1#8 GND.
- LIGHTING PANEL.
- HORSEPOWER RATED, DISCONNECT SWITCH WITHOUT THERMAL OVERLOAD PROTECTION.
- DEMOLISH EXISTING DEVICE.
- REINSTALL EXISTING DEVICE.
- EXISTING TO REMAIN.
- NEW.
- CONDUIT ONLY WITH #12 PULL WIRE.
- UNLESS OTHERWISE NOTED.
- TYPICAL.
- ABOVE FINISHED FLOOR.
- WEATHERPROOF.
- EXISTING CLOCK.
- EXISTING PA SPEAKER.
- EXISTING SECURITY MOTION SENSOR.

CABLE TYPE

"D" CABLE - 4 PAIR #24 UTP CATEGORY 6a CABLE AS MANUFACTURED BY COMSCOPE.

COMPUTER DATA/TELEPHONE/CABLE & WIRING

- 1D- 3/4" CONDUIT WITH ONE "D" CABLE.
- 2D- 3/4" CONDUIT WITH TWO "D" CABLES.

GENERAL NOTES

- 1) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE(S), OR ANY RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF SCHOOL DISTRICT ARCHITECT/ENGINEER OF RECORD PRIOR TO COMMENCING ANY WORK.
- 2) SPECIFIC COMPONENTS ON CATALOG CUT SHEETS MUST BE HIGHLIGHTED, OR IDENTIFIED.
- 3) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUITY OF THE EXISTING FIRE ALARM SYSTEM, CENTRAL STATION REPORTING SYSTEM, SMOKE MANAGEMENT SYSTEM, AND ANY OTHER LIFE SAFETY EQUIPMENT EXISTING AT THE SITE AND AFFECTED BY HIS WORK ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE WATCH PER CFC 801.7 AND DSA IR F-2 FOR SYSTEMS THAT ARE MADE INACTIVE OR OTHERWISE COMPROMISED AS A RESULT OF THE WORK PERFORMED BY THAT CONTRACTOR.
- 4) CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK.
- 5) ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.
- 6) ALL EXISTING MATERIALS REMOVED FROM BUILDINGS SHALL BE REMOVED FROM SITE AS DIRECTED BY THE DISTRICT ELECTRICAL INSPECTOR.
- 7) WHERE EXISTING STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- 8) THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED. THE DISTRICT PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIEDLY, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.
- 9) IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.
- 10) REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
- 11) EXISTING FIRE ALARM SYSTEM AND SECURITY SYSTEM MUST REMAIN IN OPERATION UNTIL CONSTRUCTION IS COMPLETE, APPROVED AND OPERATIONAL.
- 12) QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF AUXILIARY SYSTEM (FA, TEL, SECURITY) SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN. PROVIDE ALL SPARE WIRES BETWEEN DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT.
- 13) IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED BUILDINGS.
- 14) ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
- 15) ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
- 16) COORDINATION:
A. THE GENERAL CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON ELECTRICAL. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE BID TIME, OR BEFORE PROCEEDING WITH THE WORK.
B. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
C. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL, COMMUNICATION AND SECURITY REQUIREMENTS BEFORE CONSTRUCTION BEGINS.
- 17) ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE CONSTRUCTION BEGINS.
- 18) THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "EXISTING" OR AS "PROVIDED BY OTHERS".
- 19) IF USE OF WIREMOLD IS DESIRED, CONTRACTOR SHALL OBTAIN A LETTER FROM AOR AUTHORIZING USE OF WIREMOLD PRIOR TO INSTALLATION.
- 20) DRAWINGS ARE BASED ON AVAILABLE AS-BUILT PLANS AND FIELD OBSERVATIONS. NOTIFY THE AUTHORIZED OWNER REPRESENTATIVE (AOR) IMMEDIATELY WHENEVER (E) CONDITIONS ENCOUNTERED DEVIATE FROM THESE DRAWINGS AND EXISTING EQUIPMENT MUST BE RELOCATED DUE TO NEW CONSTRUCTION EFFORTS.
- 21) PROVIDE GROUND BUSHING ON NEW AND EXISTING PULLBOXES.
- 22) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES AND ALL OTHER LOW VOLTAGE/SIGNAL SYSTEMS.
- 23) ANY DAMAGE CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL COST TO THE OWNER. ALL ITEMS MOVED OR TEMPORARILY DISASSEMBLED SHALL BE REPLACED OR REASSEMBLED TO AT LEAST THE CONDITION LIKE QUALITY PRIOR TO REMOVAL OR DISASSEMBLY.
- 24) PROVIDE ACCESS PANEL FOR EACH HEAT DETECTOR IN ATTIC SPACE EXCEPT CEILING WITH SUSPENDED T-BAR CEILING.
- 25) THE COLOR CODE FOR WIRE INSULATION IN THE LOW VOLTAGE SPECIFICATIONS SHOULD BE FOLLOWED.
- 26) SEAL ALL SPACE AROUND CONDUIT PENETRATION THROUGH FIRE RATED WALL WITH A UL LISTED FIRE BARRIER COMPOUND 3"CM CAULKING OR EQUAL.

LOCATION		WATTAGE			LTG	REC	MS	CIR	BKR	BKR	CIR	MIS	REC	LTG	WATTAGE			LOCATION
PH - A	PH - B	PH - C	PH - A	PH - B											PH - C			
(E) LTG, TEACH LOUNGE	800							1	20-1					9	270			LTG, KITCHEN
(E) LTG, RESTROOM	600							3	20-1									SPARE
(E) REC, TEACH LOUNGE		720						5	20-1							900		(E) REC, TEACH LOUNGE
(E) REC, MICROWAVE	1200						1	7	20-1							900		(E) REC, TEACH LOUNGE
(E) REC, MICROWAVE		1200					1	9	20-1							800		(E) HOT FOOD CART
(E) BOILER CONTROL		600					1	11	20-1							800		...
(E) WET FP	500						1	13	20-1						700			(E) LIGHTING
SPARE								15	20-1							1000		(E) HOT FOOD CART
SPARE								17	20-1							500		(E) VENT
(E) SCE	800						1	19	20-1						500			(E) VENT
(E) SCE		600					1	21	20-1							312		AIR CURTAIN, HALLWAY
(E) WALL PANEL RECEPTACLE, MULTI-PURPOSE	400		1000				2	25	20-1								612	AIR CURTAIN, KITCHEN
REC, SERVING COUNTER		1200					1	27	20-1									(E) FIRE ALARM
REC, HOT CABINET			1500				1	29	20-1							2088		GARBAGE DISPOSER
REC, REACH-IN REFRIGERATOR	912						1	31	20-1							4000		REC, REFRIG. CABINET
REC, REACH-IN FREEZER		828					1	33	20-1									SPARE
SPARE								35	20-1									SPARE
SPARE								37	15-2									SPARE
(E) CAMERA, LTG		200					1	41	20-1									SPARE
PH - A = 11682 VA										PH - B = 8628 VA								PH - C = 10832 VA
TOTAL CONNECTED LOAD:	31142									86.51								
LOAD:	270 VA	3	125%	= 337.5 VA						VA	OR							
FDL:	30872 VA			337.5 VA (LCL)	=	31210 VA				OR								

3 - PROVIDE NEW CIRCUIT BREAKER WITH MOUNTING ACCESSORY, RATINGS AND NUMBER POLE AS INDICATED, MATCH EXISTING TYPE AND A.I.C. RATINGS.
* - USE GFI TYPE CIRCUIT BREAKER.

CODES, STANDARDS & GUIDES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2023

2022 California Administrative Code (CAC), Part 1, Title 24 CCR
 2022 California Building Code (CBC), Part 2, Title 24 CCR
 2021 International Building Code, Vol. 1 & 2, and 2022 California amendments
 2022 California Electrical Code (CEC), Part 3, Title 24 CCR
 2020 National Electrical Code and 2019 California Amendments
 2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
 2021 IAPMO Uniform Mechanical Code and 2022 California amendments
 2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
 2021 IAPMO Uniform Plumbing Code and 2022 California amendments
 2022 California Energy Code (CEC), Part 6, Title 24 CCR
 2022 California Fire Code (CFC), Part 9, Title 24 CCR
 2021 International Fire Code and 2022 California Amendments
 2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
 2021 International Existing Building Code and 2022 California Amendments
 2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
 2022 California Referenced Standards Code, Part 12, Title 24 CCR
 Title 19 CCR, Public Safety, State Fire Marshal Regulations
 2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch. 35)
 Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2022 Edition
 NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended).....2019 Edition
 NFPA 17 - Standard for Dry Chemical Extinguishing Systems.....2021 Edition
 NFPA 17A - Standard for Wet Chemical Extinguishing Systems.....2021 Edition
 NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.....2019 Edition
 NFPA 22 - Standard for Water Tanks for Private Fire Protection.....2019 Edition
 NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended).....2019 Edition
 NFPA 72 - National Fire Alarm and Signaling Code (CA amended).....2022 Edition
 NFPA 80 - Standard for Fire Doors and Other Opening Protectives.....2019 Edition
 NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended).....2018 Edition
 UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment.....2018 Edition
 UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.....2003 Edition
 UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.....1999 Edition
 UL 1971 - Standard for Signaling Devices for the Hearing Impaired.....2002 (R2010)
 ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.....2017 Edition

For a complete list of applicable NFPA standards refer to 2022 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 16, & 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.

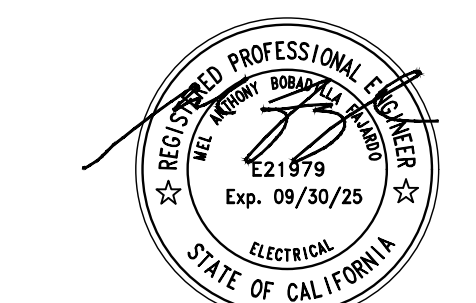
"PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING 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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL. RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.



PACIFIC ENGINEERS GROUP
 Consulting Electrical Engineers
 1106 W. Magnolia Blvd., Suite A
 Burbank, CA 91506
 (818) 859-7081 Y23-401

ARCHITECT:

CO-AR DESIGN, INC.
 580 Brea Canyon Road, Suite 178
 Diamond Bar, California 91789
 Office: 909-598-0186

Dennis J. Lee, NCARB dennisj@coar.design.com

PROJECT:



BLANDFORD ES KITCHEN
 MODERNIZATION

2601 BLANDFORD DRIVE
 ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT
 1830 NOGALES STREET
 ROWLAND HEIGHTS, CA 91748

CLIENT:

SUBMITTAL REVISIONS:
 1. SCHEMATIC DESIGN 9/19/2023
 2. DESIGN DEVELOPMENT 12/16/2023

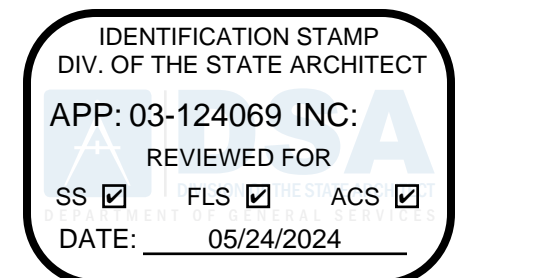
PROJECT NO: 202319
 SCALE: AS SHOWN
 DATE: 12/16/2023
 DRAWN BY: HY
 CHECKED BY: AJ

SHEET TITLE:

ELECTRICAL SYMBOL LIST,
 NOTES, DETAIL & PANEL
 SCHEDULE

SHEET NO:

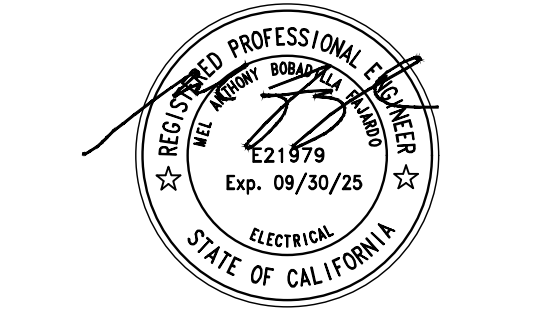
E-1.1



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NOTES:



PACIFIC ENGINEERS GROUP Consulting Electrical Engineers 1106 W. Magnolia Blvd., Suite A Burbank, CA 91506 (818) 859-7081 Y23-401

ARCHITECT:

CO-AR DESIGN, INC. 580 Brea Canyon Road, Suite 178 Diamond Bar, California 91789 Office: 909-598-0186

Dennis J. Lee, NCCARB dennis@coar.design.com

PROJECT:



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE ROWLAND HEIGHTS, CA 91748

ROWLAND UNIFIED SCHOOL DISTRICT 1830 NOGALES STREET ROWLAND HEIGHTS, CA 91748

SUBMITTAL REVISIONS: 1 SCHEMATIC DESIGN 9/19/2023 2 DESIGN DEVELOPMENT 12/6/2023

PROJECT NO: 202310 SCALE: AS SHOWN DATE: 12/4/2023 DRAWN BY: HY CHECKED BY: AJ SHEET TITLE: TITLE 24 - INDOOR

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION INDOOR LIGHTING CERTIFICATE OF COMPLIANCE NRCC-LTI-E (Page 3 of 7) Project Name: Y23-224 Blandford ES Kitchen Report Page: (Page 3 of 7) Project Address: 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 Date Prepared: 2024-01-05T11:36:56-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table I. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector
AE	SURFACE MOUNT 1X4	No	NA	21	Mfr. Spec	9	No	189	Pass Fail
Total Designed Watts: CONDITIONED SPACES								189	

²FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

³Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls		
01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel	See Area/Space Level Controls	Pass Fail

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 168551-0124-0002 Schema Version: rev 20220101 Report Generated: 2024-01-05 08:37:00

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION INDOOR LIGHTING CERTIFICATE OF COMPLIANCE NRCC-LTI-E (Page 2 of 7) Project Name: Y23-224 Blandford ES Kitchen Report Page: (Page 2 of 7) Project Address: 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 Date Prepared: 2024-01-05T11:36:56-05:00

C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)				Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)	Compliance Results			
	01	02	03	04			05	06	07
Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)25 / 170.2(e)4w (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)	
(See Table I)	(See Table I)	(See Table J)	(See Table K)	= 268.85 ≥	(See Table F)	(See Table P)	= 189	COMPLIES	
Conditioned	268.85			=	≥		=	COMPLIES	
Unconditioned				=	≥		=	COMPLIES	

Controls Compliance (See Table H for Details) COMPLIES

Rated Power Reduction Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION INDOOR LIGHTING CERTIFICATE OF COMPLIANCE NRCC-LTI-E (Page 6 of 7) Project Name: Y23-224 Blandford ES Kitchen Report Page: (Page 6 of 7) Project Address: 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 Date Prepared: 2024-01-05T11:36:56-05:00

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project.

T. DWELLING UNIT LIGHTING This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title

NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html Form/Title Systems/Spaces To Be Field Verified

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. KITCHEN

Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 168551-0124-0002 Schema Version: rev 20220101 Report Generated: 2024-01-05 08:37:00

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION INDOOR LIGHTING CERTIFICATE OF COMPLIANCE NRCC-LTI-E (Page 4 of 7) Project Name: Y23-224 Blandford ES Kitchen Report Page: (Page 4 of 7) Project Address: 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 Date Prepared: 2024-01-05T11:36:56-05:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs) Area Level Controls

04	05	06	07	08	09	10	11	12		
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector	Pass	Fail
KITCHEN	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No		<input type="checkbox"/>	<input type="checkbox"/>
Plan Sheet Showing Daylit Zones:										

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(e) are being used.

Conditioned Spaces					
01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category PAF
KITCHEN	Kitchen/ Food Preparation	0.95	283	268.85	No No
TOTALS:			283	268.85	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This section does not apply to this project.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION INDOOR LIGHTING CERTIFICATE OF COMPLIANCE NRCC-LTI-E (Page 7 of 7) Project Name: Y23-224 Blandford ES Kitchen Report Page: (Page 7 of 7) Project Address: 2601 BLANDFORD DRIVE, ROWLAND HEIGHTS, CA 91748 Date Prepared: 2024-01-05T11:36:56-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Pacific Engineering Documentation Author Signature: [Signature]

Company: Pacific Engineering Group Signature Date: 01-05-2024

Address: 1106 W. MAGNOLIA BLVD, SUITE A CEA/ HERS Certification Identification (if applicable):

City/State/Zip: BURBANK, CA 91506 Phone: 818-842-7285

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the law of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- 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)
- 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.
- 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.
- 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: MEL ANTHONY FAJARDO Responsible Designer Signature: [Signature]

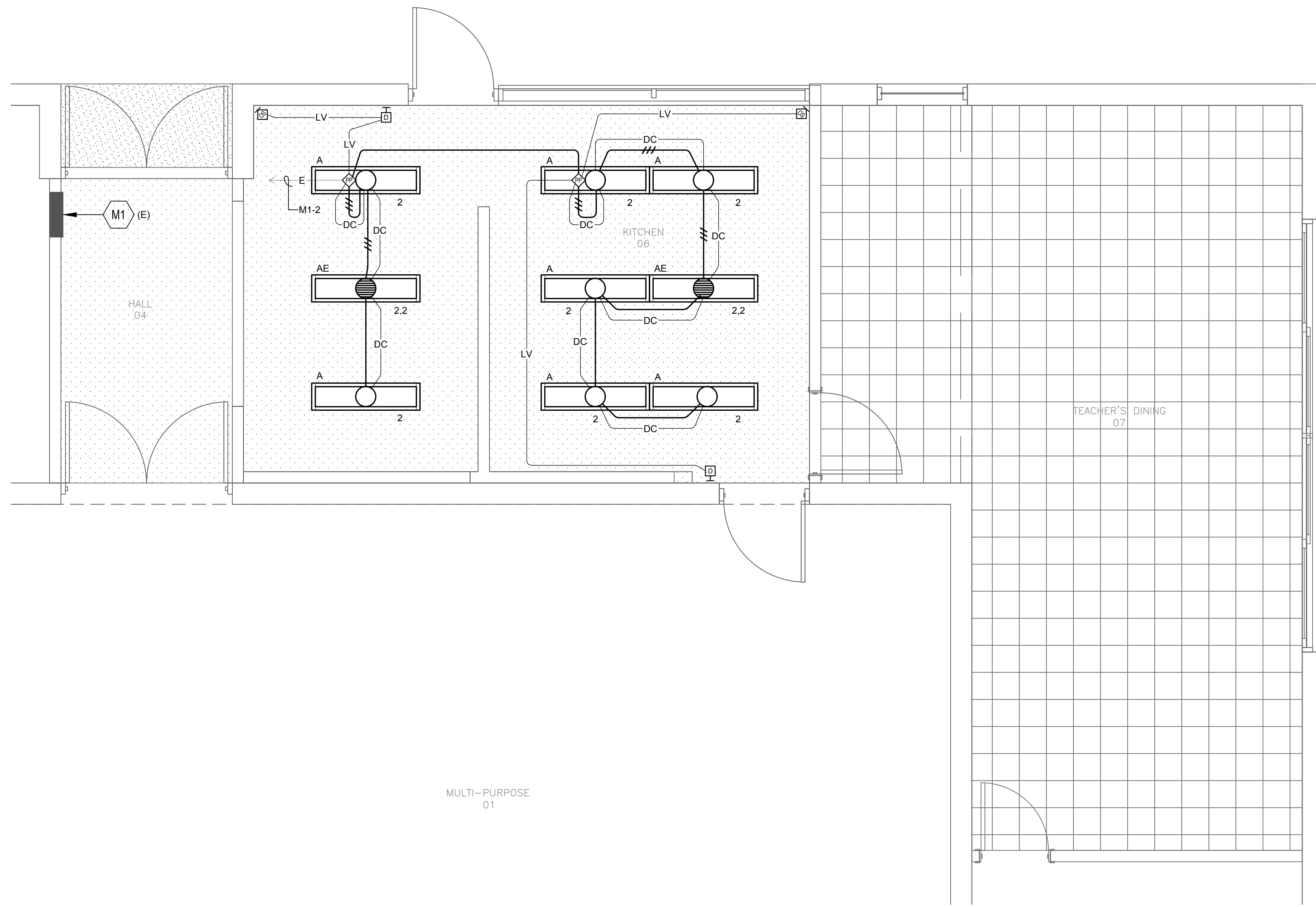
Company: Pacific Engineering Group Date Signed: 01-05-2024

Address: 1106 W. MAGNOLIA BLVD, SUITE A License: E21979

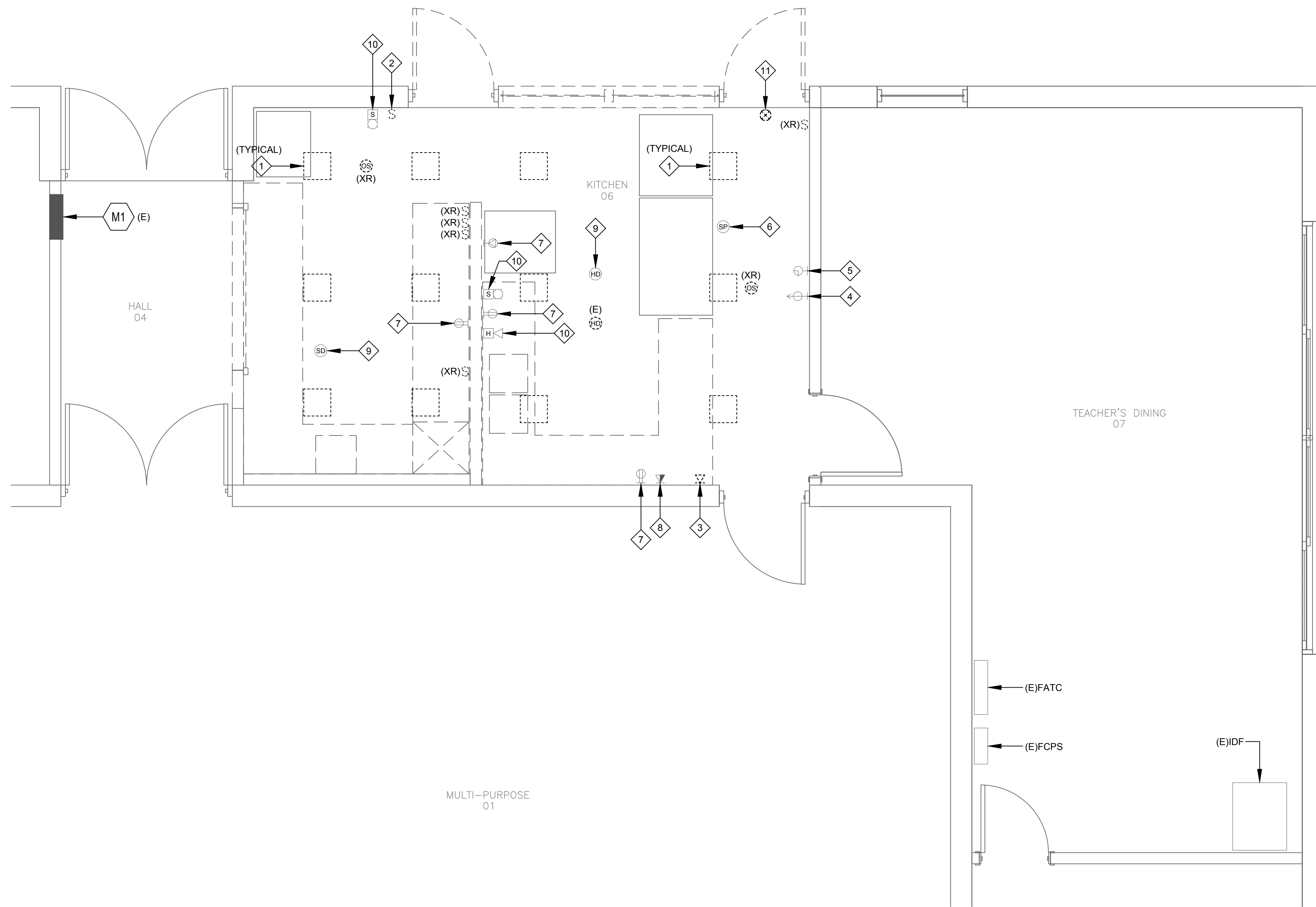
City/State/Zip: BURBANK, CA 91506 Phone: 818-842-7285

Generated Date/Time: Documentation Software: Energy Code Ace

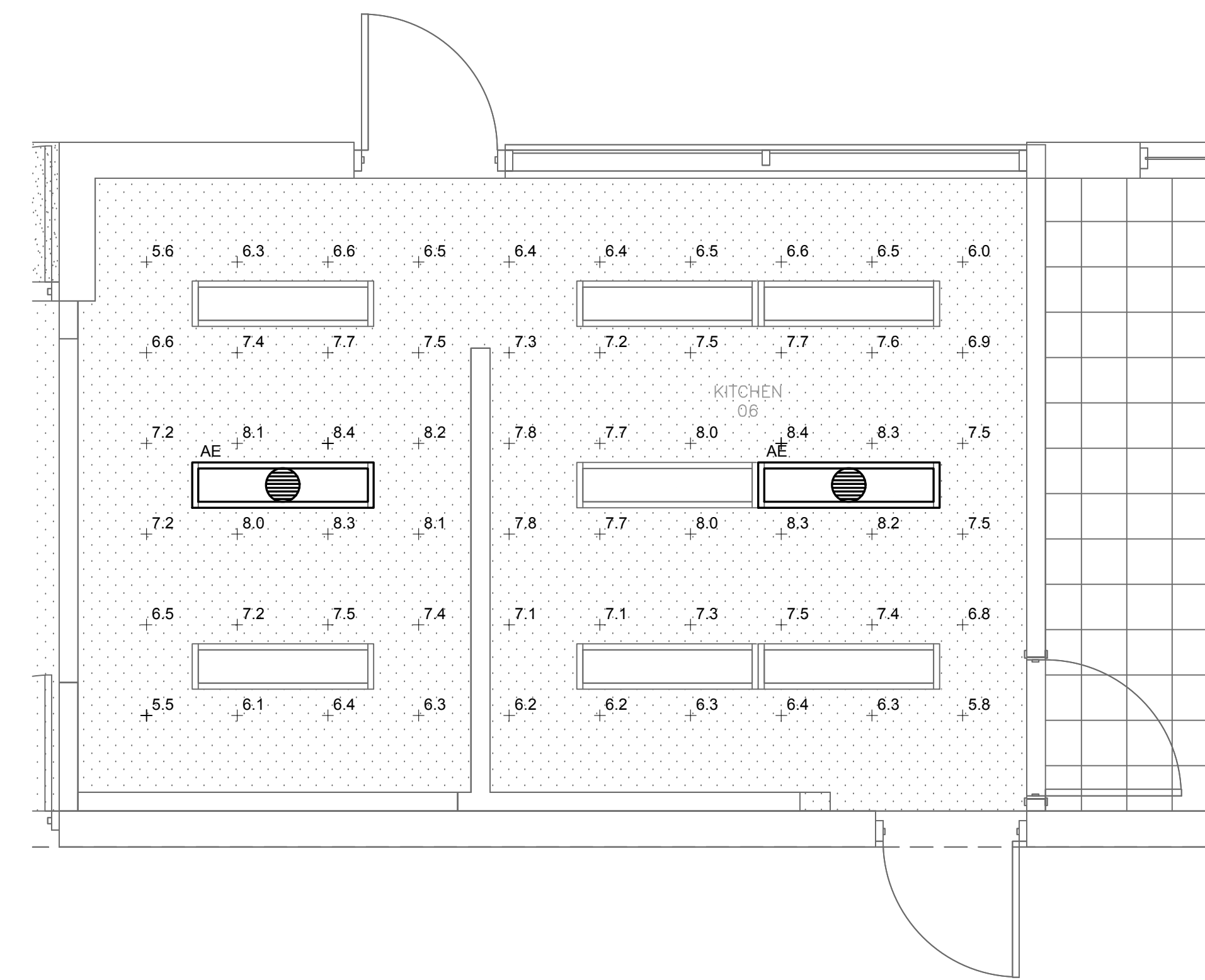
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 168551-0124-0002 Schema Version: rev 20220101 Report Generated: 2024-01-05 08:37:00



LIGHTING PLAN
SCALE: 3/8" = 1'-0" **2**



DEMOLITION PLAN
SCALE: 3/8" = 1'-0" **1**



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
KITCHEN	+	7.1 fc	8.4 fc	5.5 fc	1.5:1	1.3:1

Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
A			2	Lithonia Lighting	CPANL 1x4 24/33/44LM 40K - 24LM	CPANL Switchable Lumen LED Flat Panel, 1x4, 24/33/44LM, 4000 K CCT, - 24LM	1	2442	0.7	19.46	

EMERGENCY PHOTOMETRIC PLAN
SCALE: 3/8" = 1'-0" **3**

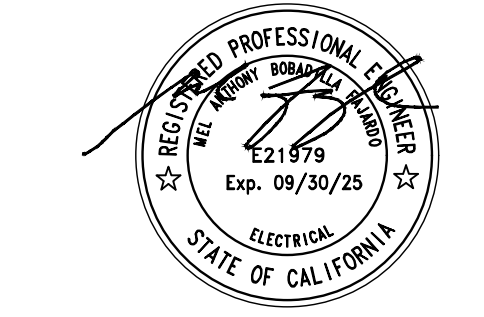
- DEMOLITION KEYED NOTES**
- DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES INCLUDING OCCUPANCY SENSOR AND WIRING. PROTECT IN PLACE EXISTING WIRES, CONDUIT AND J-BOXES IN CEILING SPACE AND BE REUSE. DO NOT DISCONNECT CONTINUITY TO REMAINING LIGHTING FIXTURES. SEE NEW LIGHTING PLAN ON THIS SHEET.
 - DISCONNECT, REMOVE AND REPLACE EXISTING LIGHT SWITCH INCLUDING WIRES. EXISTING FLUSH BOX AND CONDUIT TO REMAIN AND BE REUSED.
 - DISCONNECT AND REMOVE TELEPHONE OUTLET INCLUDING CABLE BACK TO TERMINAL CABINET.
 - CAREFULLY DISCONNECT, REMOVE AND REINSTALL EXISTING INTRUSION DETECTION. PROTECT IN PLACE EXISTING CABLE AND BE REUSE.
 - CAREFULLY DISCONNECT, REMOVE AND REINSTALL EXISTING CLOCK. PROTECT IN PLACE WIRES AND CONDUIT AND BE REUSE.
 - CAREFULLY DISCONNECT, REMOVE AND REINSTALL EXISTING CEILING MOUNT PA SPEAKER. PROTECT IN PLACE EXISTING WIRES BE REUSE.
 - DISCONNECT AND REMOVE RECEPTACLE OUTLETS INCLUDING WIRES AND CONDUIT BACK TO SERVING PANELBOARD, CUT AND CAP CONDUIT AND ABANDON IN PLACE.
 - CAREFULLY DISCONNECT, REMOVE AND REINSTALL DUAL TELEPHONE AND DATA OUTLETS INCLUDING RACEWAY AND CABLES.
 - CAREFULLY DISCONNECT, REMOVE AND REINSTALL SMOKE AND HEAT DETECTORS TO NEW CEILING. PROTECT IN PLACE WIRES AND CONDUIT AND BE REUSE.
 - CAREFULLY DISCONNECT, REMOVE AND REINSTALL FIRE ALARM STROBE AND HORN. PROTECT IN PLACE WIRES AND CONDUIT AND BE REUSE.
 - DISCONNECT AND REMOVE EXISTING EXIT SIGN INCLUDING ASSOCIATED WIRES AND CONDUIT.

SEA APPROVAL STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124069 INC:
REVIEWED FOR
SS FLS ACS
DATE: 05/24/2024

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BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
ROWLAND HEIGHTS, CA 91748
CLIENT:
ROWLAND UNIFIED SCHOOL DISTRICT
1830 NOGALES STREET
ROWLAND HEIGHTS, CA 91748

SUBMITTAL REVISIONS:
1 SCHEMATIC DESIGN 9/19/2023
2 DESIGN DEVELOPMENT 12/16/2023

PROJECT NO: 202310
SCALE: AS SHOWN
DATE: 12/16/2023
DRAWN BY: HY
CHECKED BY: AJ

DEMOLITION, LIGHTING & PHOTOMETRIC PLANS

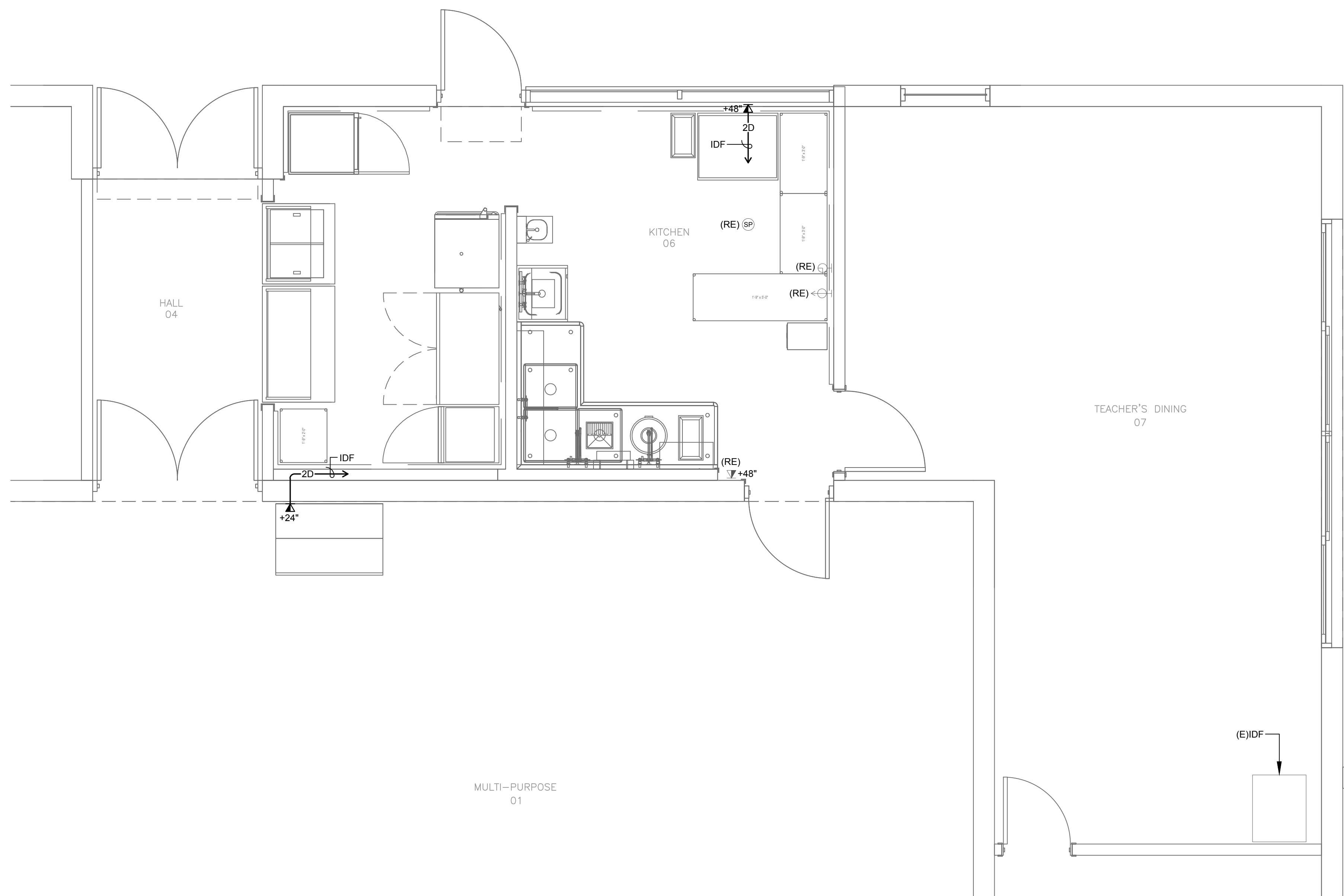
SHEET NO: E-2.1

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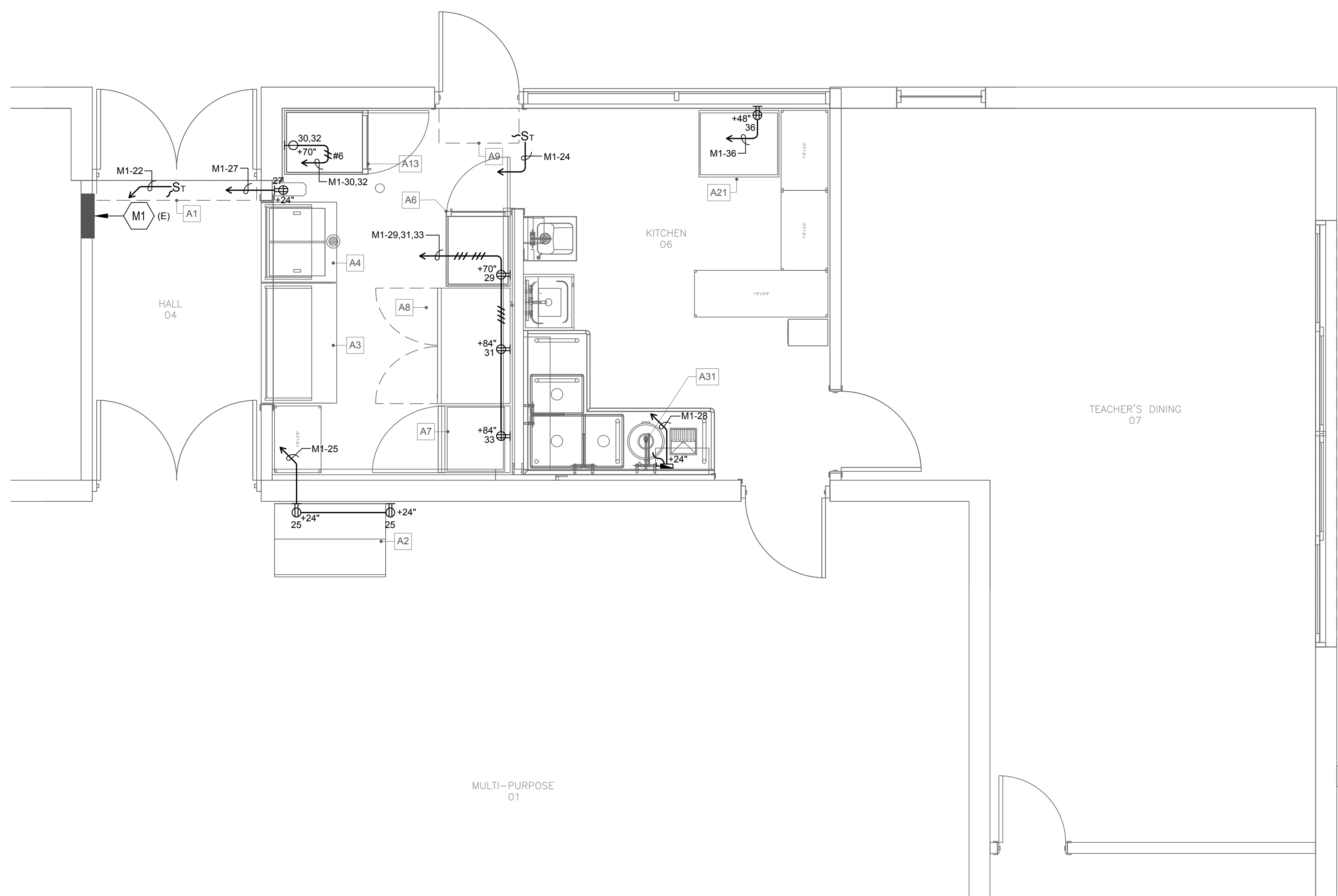
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NOTES:



SIGNAL PLAN
 SCALE: 3/8" = 1'-0" **2**



POWER PLAN
 SCALE: 3/8" = 1'-0" **1**

#	QTY	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NO. / SPEC.	FURNISH...	INSTALL.	ELECTRICAL					PLUMBING			GAS		WASTE	REMARKS	
							VOLT	PHASE	KW	AMP	HP	CONN.	R.L.H.	CW	HW	R.L.H.			SIZE
A1	1	AIR CURTAIN	MARS AIR SYSTEMS	LPV272-1U	G.C.	G.C.	115	1	0.3	2.6		DIRECT	84"						
A2	1	(E) MILK COOLER	EXISTING	EXISTING	OWNER	G.C.	115	1	0.35	3		PLUG	24"						1480 BTUHR HEAT REMOVAL
A3	1	(E) SERVING COUNTER	EXISTING	EXISTING	OWNER	G.C.													
A4	1	(E) HOT SERVING COUNTER MOBILE	EXISTING	EXISTING	OWNER	G.C.	120	1	1.2	10		PLUG	24"						
A6	1	(E) HOT CABINET	CRES COR	H1378203	OWNER	G.C.	120	1	1.5	12		PLUG	70"						
A7	1	(E) FREEZER, REACH-IN	EXISTING	EXISTING	OWNER	G.C.	115	1	0.87	7.6		PLUG	84"						
A8	1	(E) REFRIGERATOR, REACH-IN	EXISTING	EXISTING	OWNER	G.C.	115	1	0.79	6.9		PLUG	84"						
A9	1	AIR CURTAIN	MARS AIR SYSTEMS	NH236-1U	G.C.	G.C.	115	1	0.59	5.1		DIRECT							
A11	1	HAND SINK	ADVANCE TABCO	7-PS-25	G.C.	G.C.							1/2"	1/2"	18"				1 1/2"
A13	1	REHEM CABINET	CRES COR	RO-151-FLA-18DE	G.C.	G.C.	208	1	8	34		PLUG	70"						
A14	1	MOP SINK CABINET	ADVANCE TABCO	9-OP-84	G.C.	G.C.													
A14.1	1	MOP SINK FAUCET	ADVANCE TABCO	K-240	G.C.	G.C.							1/2"	1/2"	36"				2"
A16	1	WALL SHELF, SINGLE	EAGLE GROUP	WS1260-16/3	G.C.	G.C.													
A18	1	3 COMP SINK 'L' SHAPE	CUSTOM FABRICATED	CUSTOM	G.C.	G.C.													
A18-1	1	PRE-RINSE FAUCET	T&S BRASS	B-0133-12-CR-B	G.C.	G.C.							1/2"	1/2"	18"				
A18-2	2	BIG-FLO MIXING FAUCET	T&S BRASS	B-0292	G.C.	G.C.							3/4"	3/4"	18"				
A19	1	WALL SHELF, SINGLE	EAGLE GROUP	WS1224-16/3	G.C.	G.C.													
A21	1	ACCESSIBLE WORK TABLE, MOBILE	EAGLE GROUP	T3038STE	G.C.	G.C.	120	1	1.2	10		PLUG	48"						(1) GFICI CONVENIENCE RECEPTION
A22	4	DRY STORAGE SHELVING	METRO	METROMAX Q	G.C.	G.C.													
A23	1	(4) TIER LOCKER	OMCAN	13130	G.C.	G.C.													
A24	1	WALL FLASHING	ADVANCE TABCO	WF20	G.C.	G.C.													
A28	3	STAINLESS STEEL WALL END CAP	THE CORNER GUARD STORE	EC3P-S84-1648-1.5-6	G.C.	G.C.													
A30	5	STAINLESS STEEL CORNER GUARD	ADVANCE TABCO	CG-84	G.C.	G.C.													
A31	1	FOOD WASTE DISPOSER	INSINKERATOR	SS-200	G.C.	G.C.	115	1		17.4	2	DIRECT	24"	1/2"	18"				1 1/2"
A32	1	SOAP DISPENSER	DEB		OWNER	G.C.													
A33	1	PAPER TOWEL DISPENSER	TORK	772828	OWNER	G.C.													

ARCHITECT:
CO-AR CO-AR DESIGN, INC.
 580 Brea Canyon Road, Suite 178
 Diamond Bar, California 91789
 Office: 909-598-0186
 Dennis J. Lee, NCARB dennis@coar-design.com



BLANDFORD ES KITCHEN MODERNIZATION

2601 BLANDFORD DRIVE
 ROWLAND HEIGHTS, CA 91748
 CLIENT:
 ROWLAND UNIFIED SCHOOL DISTRICT
 1830 NOGALES STREET
 ROWLAND HEIGHTS, CA 91748

SUBMITTAL REVISIONS:
 1. SCHEMATIC DESIGN 9/19/2023
 2. DESIGN DEVELOPMENT 12/4/2023

PROJECT NO: 202310
 SCALE: AS SHOWN
 DATE: 12/4/2023
 DRAWN BY: HY
 CHECKED BY: AJ

SHEET TITLE:
POWER & SIGNAL PLANS

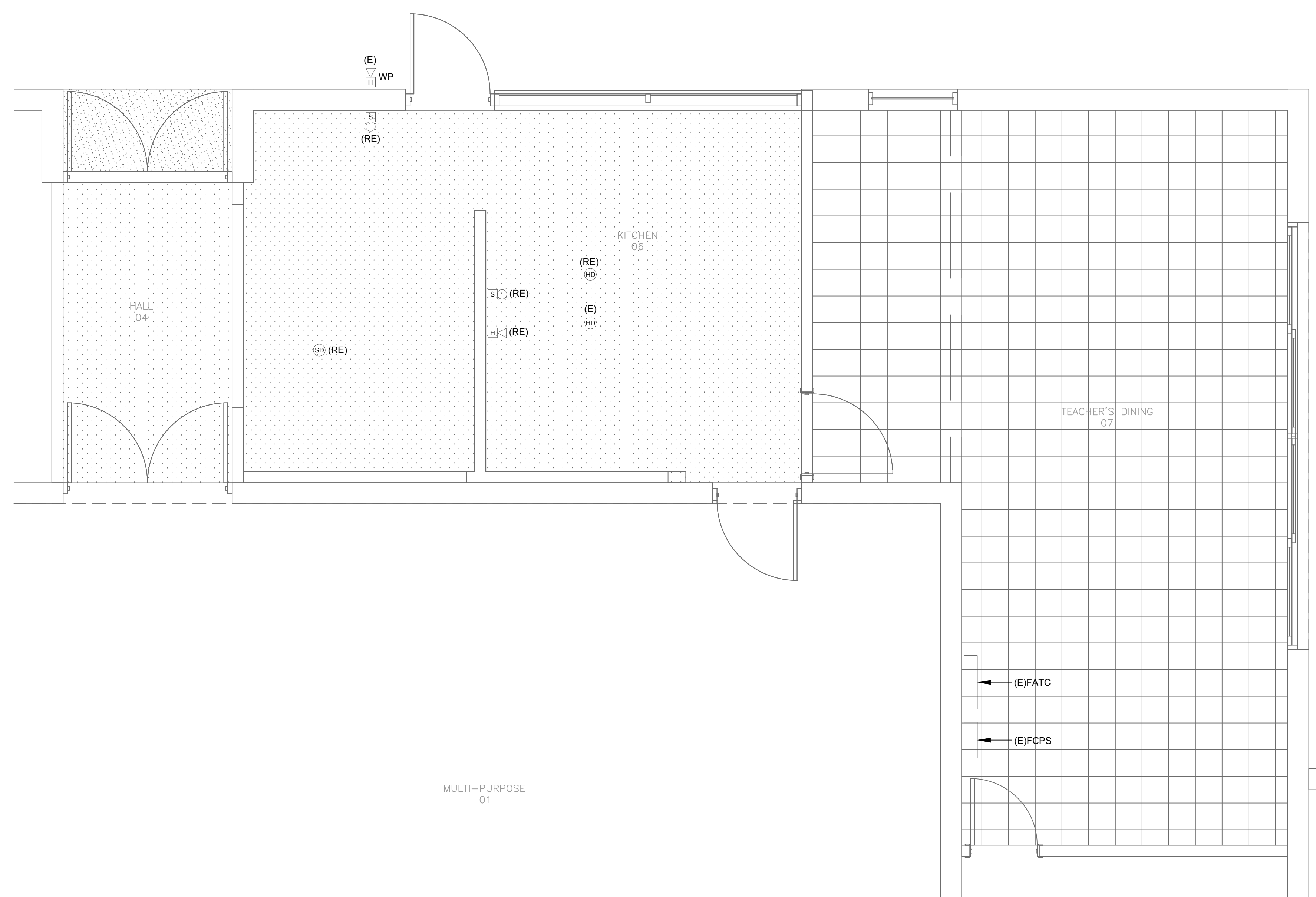
SHEET NO:

B:\Microsoft Office\COMF-23 - Blandford Es Kitchen Mod - Monday, December 4, 2023, 4:17 PM

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-124069 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 05/24/2024

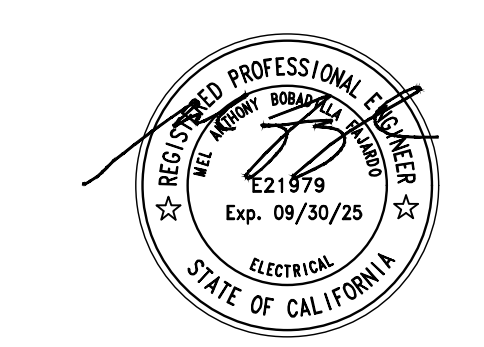
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 NOTES:



- SYMBOL & LEGEND**
- Ⓢ - EXISTING SMOKE DETECTOR, PHOTOELECTRIC TYPE "NOTIFIER #SP-851", CSFM 7272-0028.0206.
 - HD - EXISTING HEAT DETECTOR, "NOTIFIER #FST-851", CSFM 7272-0028.0196.
 - WP >H - EXISTING EXTERIOR HORN, "SYSTEM SENSOR #HRK", CSFM 7135-1653.0189.
 - Ⓢ - EXISTING FIRE ALARM STROBE, "SYSTEM SENSOR #SR", CSFM 7125-1653.0189.
 - >H - EXISTING INTERIOR HORN, "SYSTEM SENSOR #HR", CSFM 7135-1653.0189.
 - FACP - EXISTING FIRE ALARM CONTROL PANEL, "NOTIFIER #NFS2-640", CSFM 7165-0028.0243. A#03-114852 (ADMIN BUILDING).
 - FCPS - EXISTING FIRE ALARM POWER SUPPLY, "NOTIFIER #FCPS-2450", CSFM 7315-0028.0225. A#03-114852.

FIRE ALARM PLAN
 SCALE: 3/8" = 1'-0" **1**



PACIFIC ENGINEERS GROUP
 Consulting Electrical Engineers
 1106 W. Magnolia Blvd., Suite A
 Burbank, CA 91506
 (818) 859-7081 Y23-401

CO-AR DESIGN, INC.
 580 Brea Canyon Road, Suite 178
 Diamond Bar, California 91789
 Office: 909-598-0186

Dennis J. Lee, NCARB dennis@coar-design.com



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FIRE ALARM PLAN

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FA-1.1