

WESTMINSTER SCHOOL DISTRICT

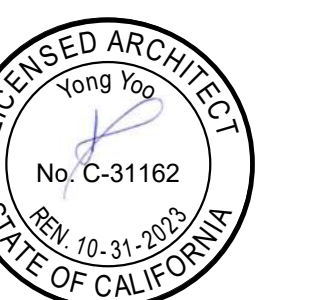
SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

DSA SUBMITTAL

12-29-2022



SCHMITT E.S. HVAC
UPGRADE &
MODERNIZATION
7200 Trask Ave
Westminster, CA 92683
DSA SUBMITTAL



OWNER

WESTMINSTER SCHOOL DISTRICT
CONTACT: Brian Johnson
14121 Cedarwood Avenue
Westminster, CA 92683
714-894-7311 P Ext. 1121
bkjohnson@wsdk8.us

ARCHITECT

PBK Architects
CONTACT: Laura Mclucas
2400 E. Katella Ave.
#910, Anaheim, CA 92806
949-548-5000
Laura.mclucas@pbk.com

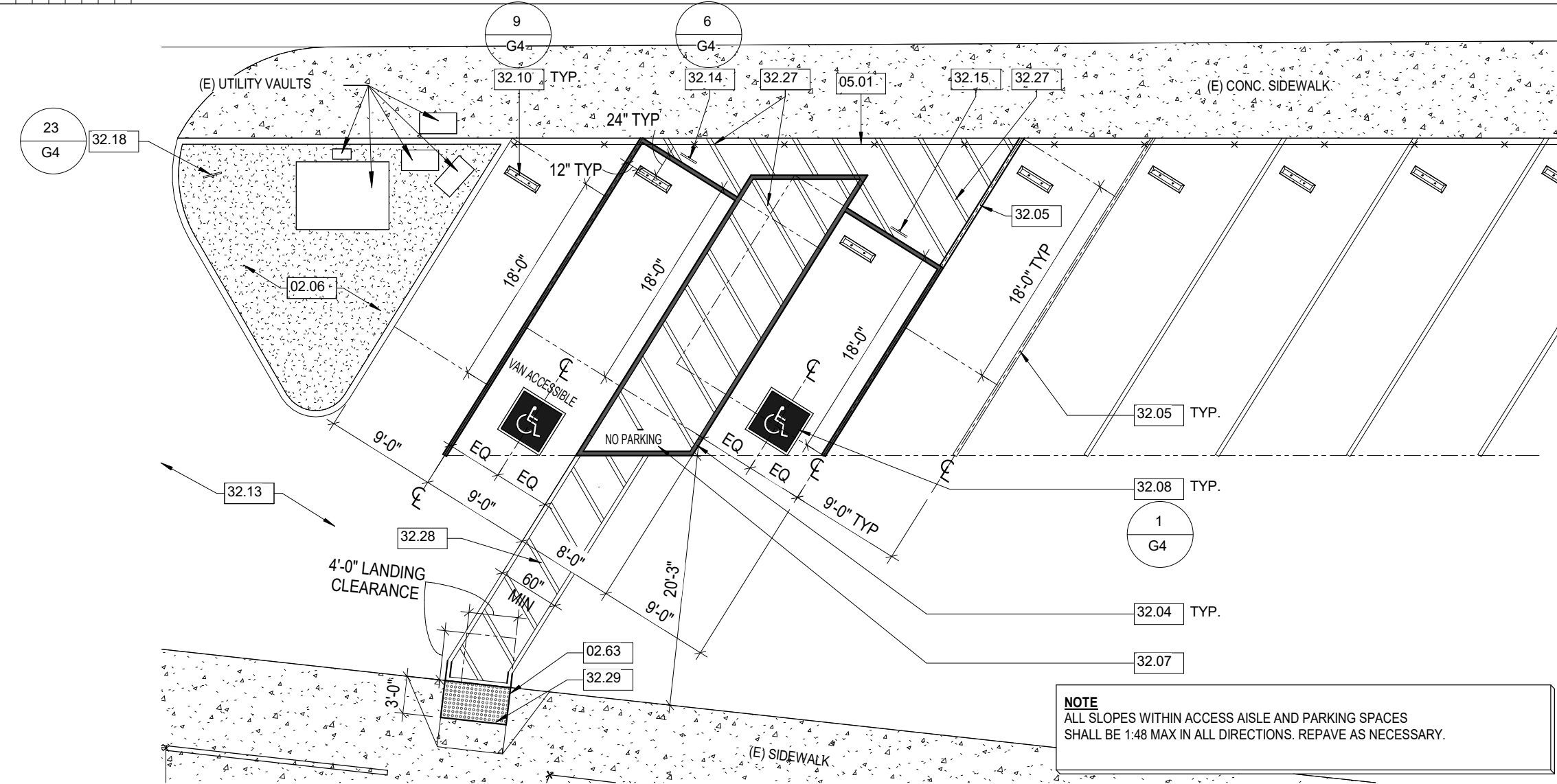
MEP ENGINEER

LEAF Engineers
CONTACT: Ronald De La Cruz
8163 Rochester Ave. #100
Rancho Cucamonga, CA 91730
909-390-3111 P
ronald.delacruz@leafengineers.com

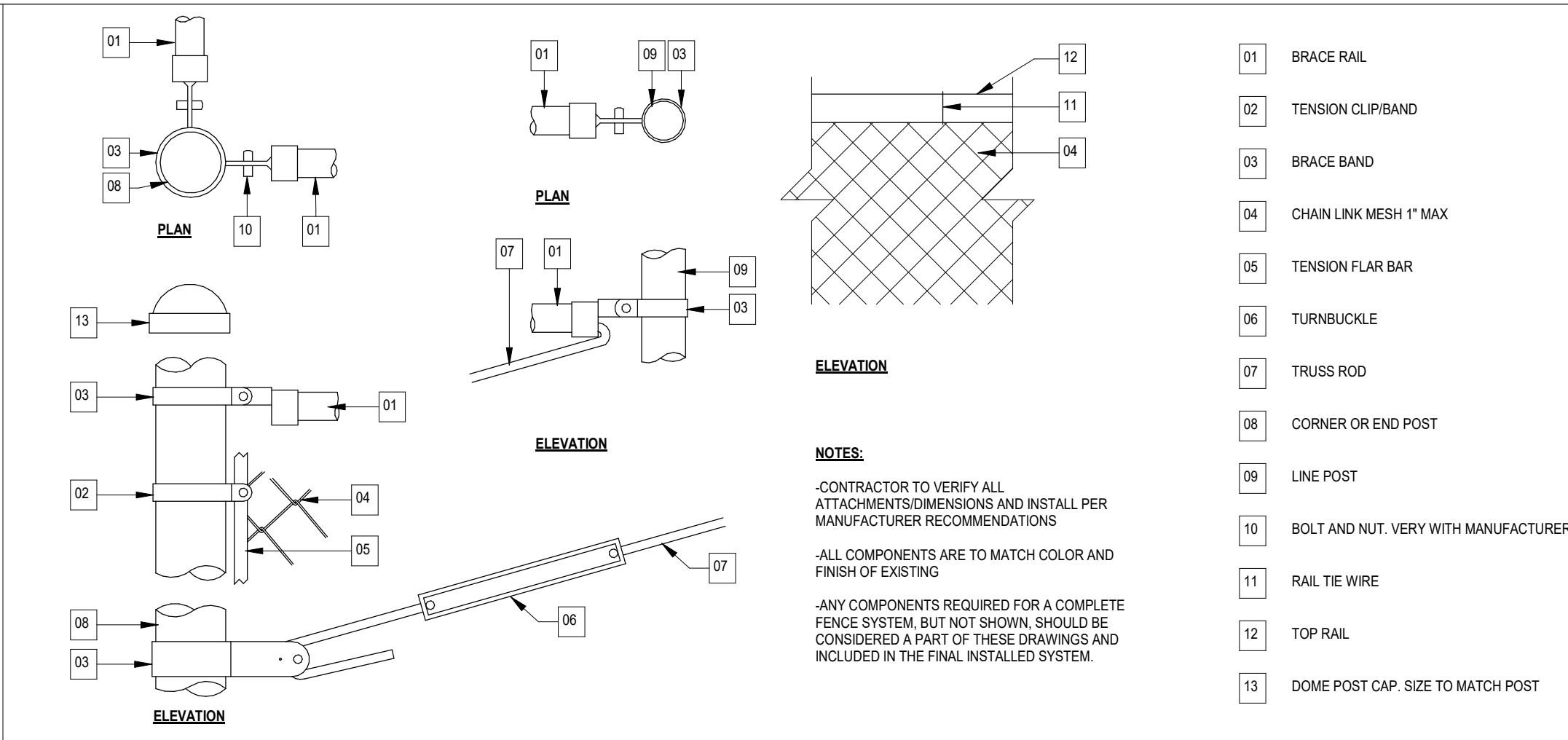
STRUCTURAL

**NIC STRUCTURAL
ENGINEERING CONSULTANTS**
CONTACT: Touraj Eimani
23 Corporate Plaza Dr., Suite 150
Newport Beach, CA 92660
949-629-2529 P
teimani@nic-eng.com

30 PARKING LOT 1 - ENLARGED PARKING PLAN
3/32" = 1'-0"



28 CHAIN LINK CONNECTIONS
1 1/2" = 1'-0"



PARKING CALCULATION

(E) PARKING LOT 1 (A#107099):	
STANDARD STALLS	10
STANDARD ACCESSIBLE STALLS	2
VAN ACCESSIBLE STALLS	1
TOTAL PLOT STALLS	13
(E) PARKING LOT 2 (A#04-114892):	
STANDARD STALLS	100
STANDARD ACCESSIBLE STALLS	4
VAN ACCESSIBLE STALLS	2
TOTAL PLOT STALLS	106
TOTAL STALLS ON SITE	119

PATH OF TRAVEL

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 NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE 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 NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANT WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBILITY LEGEND

- (N) PATH OF TRAVEL
- (E) PATH OF TRAVEL PER #04-107165
- - - - (E) PATH OF TRAVEL PER #04-110234
- (E) PATH OF TRAVEL PER #04-114892
- PROPERTY LINE
- (E) BUILDING TO BE MODERNIZED
- (E) BUILDING WITH ROOF & FIRE ALARM SCOPE ONLY
- (E) BUILDING N.I.C. - NO SCOPE OF WORK
- AREA OF (N) ASPHALT SLURRY COAT
- ACCESSIBLE RESTROOM TO BE PROVIDED AS PART OF THE CONTRACT
- RR = GENDER NEUTRAL TOILET
- B = BOYS
- G = GIRLS
- S = STAFF
- 0.0% SLOPE IN DIRECTION OF TRAVEL
- 0.0% (E) SLOPES PER SMART LEVEL, VERIFIED IN FIELD.
- NOTE: SLOPE MEASUREMENTS SPACED 10'-0" O.C. MAX. TYP.
- CROSS SLOPE

ACCESSIBILITY KEYED NOTES

- 02.00 (E) TURF TO REMAIN
- 02.01 (E) CONCRETE TO REMAIN
- 02.03 (E) 6'-0" GALV. STEEL CHAIN LINK FENCE TO REMAIN
- 02.06 (E) ASPHALT TO REMAIN, PROTECT IN PLACE
- 02.10 (E) TOW AWAY SIGN A# 04-107165
- 02.19 (E) DRINKING FOUNTAIN TO REMAIN
- 02.49 (E) METAL FENCE AND POSTS TO REMAIN, PROTECT IN PLACE.
- 02.63 (E) CURB RAMP TO REMAIN, SEE A#100879
- 02.64 (E) FIRE ACCESS GATE TO REMAIN, SEE A#14357
- 02.65 (E) CMU WALL TO REMAIN
- 02.66 (E) DRINKING FOUNTAIN W/ BOTTLE FILLER TO REMAIN, PROTECT IN PLACE.
- 02.67 (E) ORNAMENTAL METAL GATE TO REMAIN
- 02.70 (E) "DO NOT ENTER" SIGNAGE PER DETAIL 25/G2.1
- 05.01 (N) 3'-0" HEIGHT CHAIN LINK FENCE. REFER TO 28/G2, 22A21/G4
- 22.01 (N) ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILLER & FURRED WALL, SEE DETAIL 18/C4
- 32.01 6'-0" HIGH GALV. STEEL CHAIN LINK GATE W/ PANIC HARDWARE, PER DETAIL 20/G4
- 32.04 4" WIDE BLUE STRIPING
- 32.05 4" WIDE WHITE STRIPING
- 32.07 "NO PARKING" - 12" HIGH MIN. LETTERS, WHITE PAINT, NO DIAGONAL STRIPING THROUGH TEXT, TYP.
- 32.08 INTERNATIONAL SYMBOL OF ACCESSIBILITY PER DETAIL 1/G4
- 32.10 CONCRETE WHEELSTOP PER DETAIL 30/G4
- 32.13 (N) ASPHALT SLURRY COAT
- 32.14 (N) VAN ACCESSIBLE PARKING SIGN PER DETAIL 6/G4
- 32.15 (N) ACCESSIBLE PARKING SIGN PER DETAIL 6/G4
- 32.18 (N) TOW AWAY SIGNAGE PER DETAIL 23/G4
- 32.26 (N) 2" WIDE (MIN) WHITE PAINTED STRIPING
- 32.27 (N) 4" WIDE PAINTED WHITE HATCH LINES AT 36" OC
- 32.28 (N) 4" WIDE PAINTED WHITE BORDER & HATCH LINES AT 36" OC
- 32.29 (N) TRUNCATED DOMES SIMILAR TO DETAIL 21/G2.1, GRIND (E) CONCRETE FOR NEW FLUSH TRANSITION CONCRETE DOME MAT.

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR NEW PAVING AREAS AND DETAILS.

DSA CERTIFICATION LIST

1. THE FOLLOWING PROJECT... A# 04-114892 CLOSED WITH DSA CERTIFICATION ON 2/24/2017
2. THE FOLLOWING PROJECT... A# 04-110234 CLOSED WITH DSA CERTIFICATION ON 7/25/2011
3. THE FOLLOWING PROJECT... A# 04-107165 CLOSED WITH DSA CERTIFICATION ON 7/17/2013
4. THE FOLLOWING PROJECT... A# 04-103994 CLOSED WITH DSA CERTIFICATION ON 11/12/2006
5. THE FOLLOWING PROJECT... A# 04-100879 CLOSED WITH DSA CERTIFICATION ON 12/17/2008
6. THE FOLLOWING PROJECT... A# 04-100561 CLOSED WITH DSA CERTIFICATION ON 7/17/2013
7. THE FOLLOWING PROJECT... A# 66162 CLOSED WITH DSA CERTIFICATION ON 8/16/2009
8. THE FOLLOWING PROJECT... A# 65233 CLOSED WITH DSA CERTIFICATION ON 2/22/2010
9. THE FOLLOWING PROJECT... A# 25423 CLOSED WITH DSA CERTIFICATION ON 1/22/1965
10. THE FOLLOWING PROJECT... A# 14357 CLOSED WITH DSA CERTIFICATION ON 5/11/1956

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

ARCHITECT PBK Architects, Inc.
ANAHEIM
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
P 949-548-5000

PROJECT ADDRESS:
7200 Tress Ave
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL. NO. 04-121817 DSA FILE NO. 30-43

WESTMINSTER SCHOOL DISTRICT

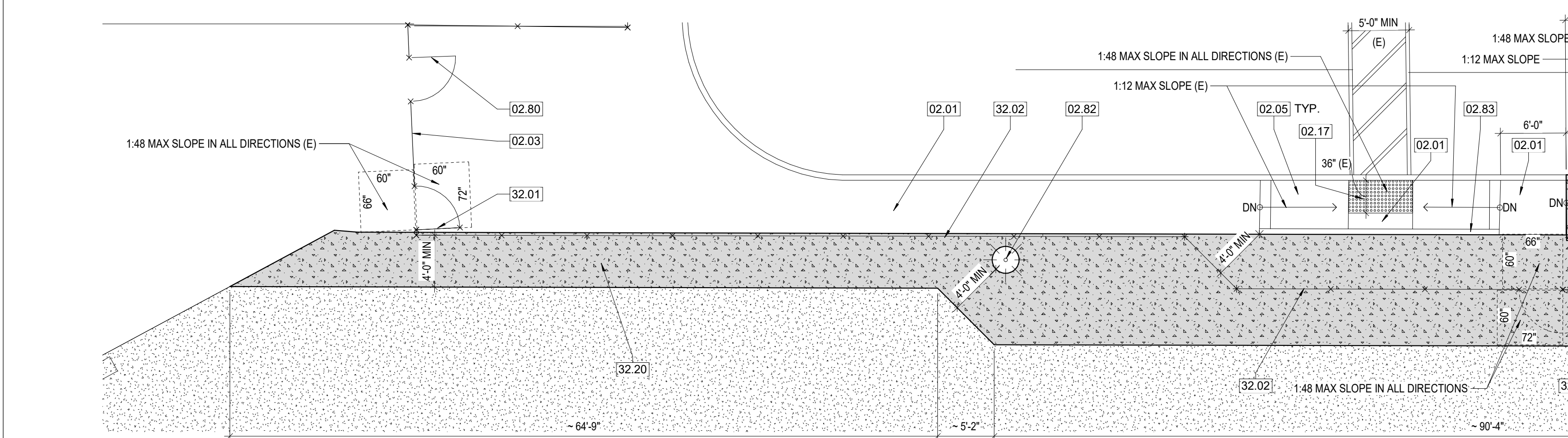
KEY PLAN
NORTH: PLAN

Consultant

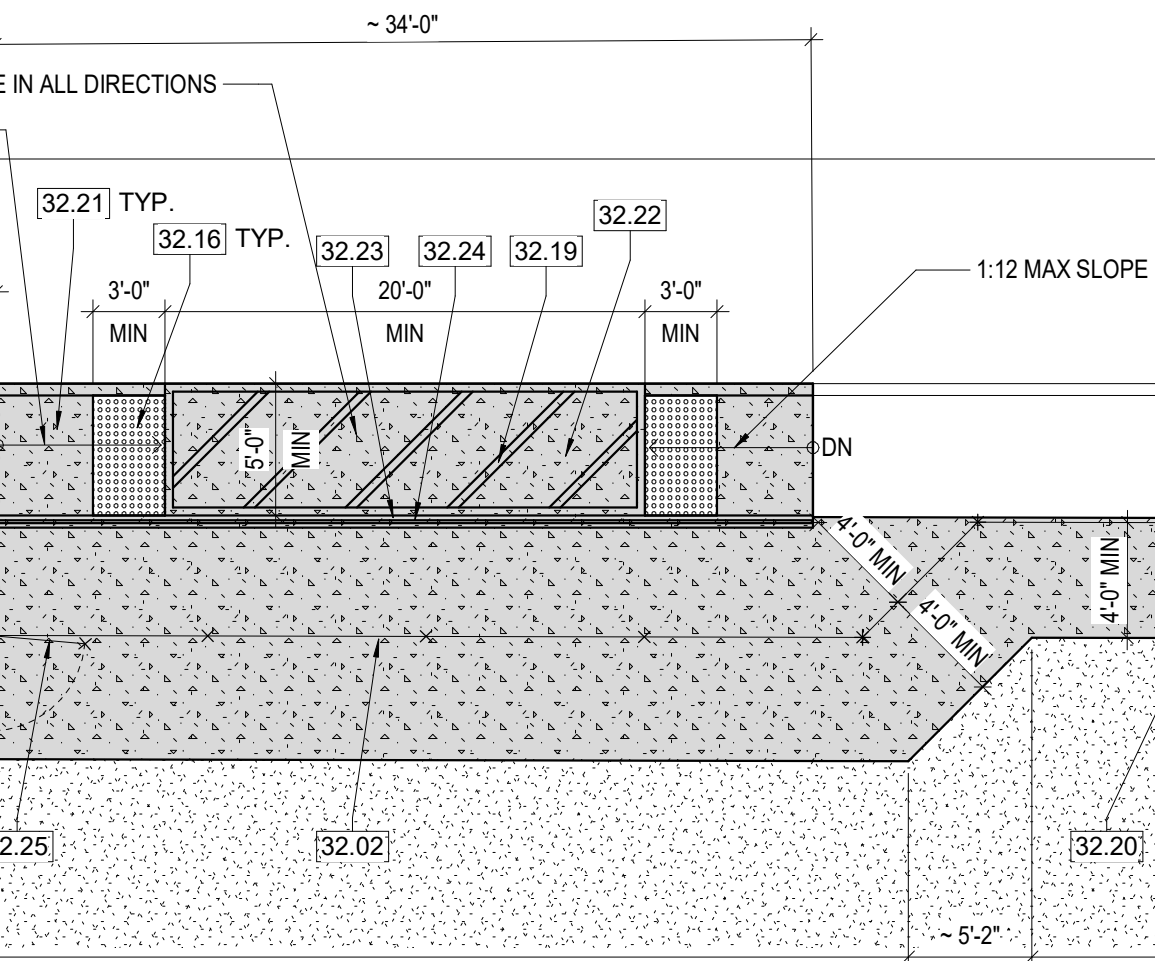
Architect
LICENSED ARCHITECT
Yong Yoo
No. C-31162
Exp. 10-31-2025
STATE OF CALIFORNIA

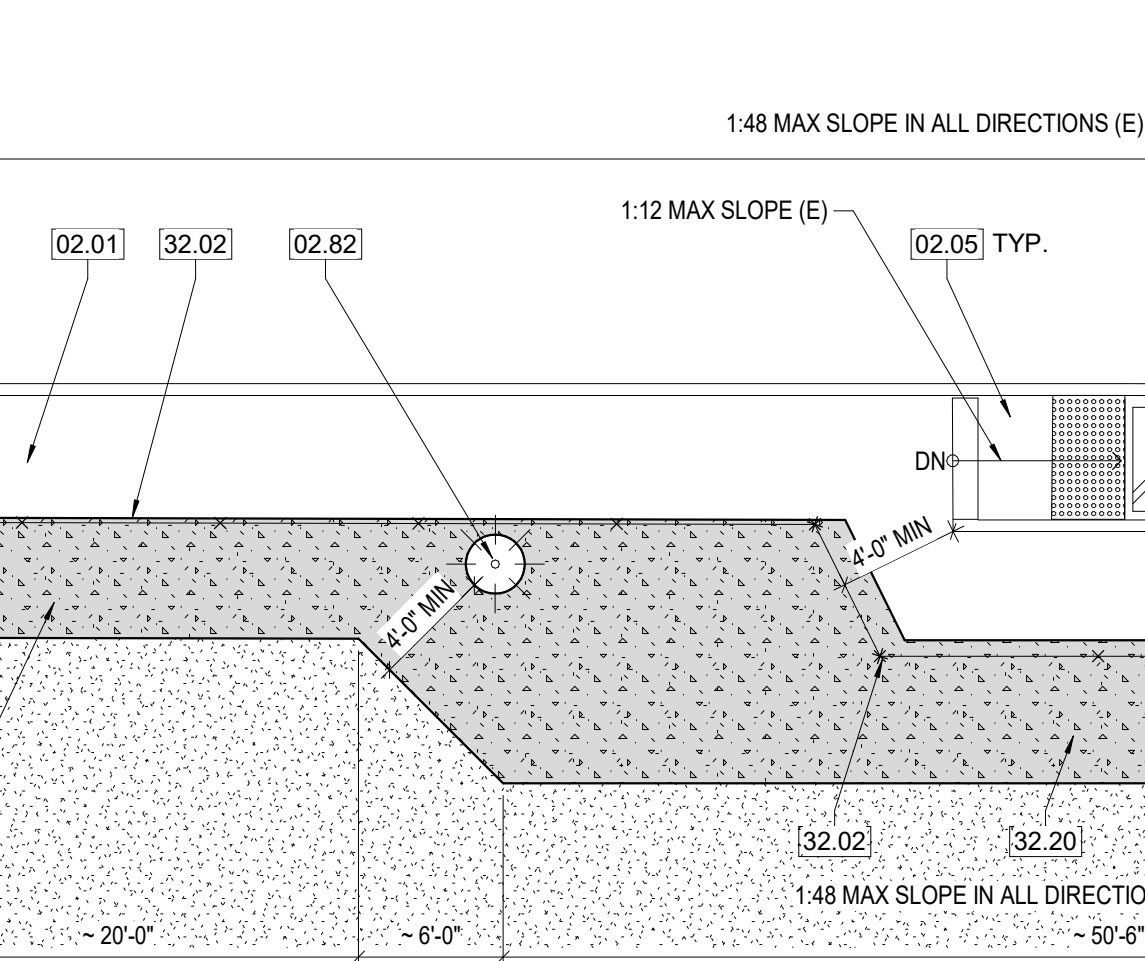
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220308
REVISIONS
No. Description Date
DS SUBMITTAL

ACCESSIBILITY SITE PLAN


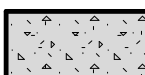


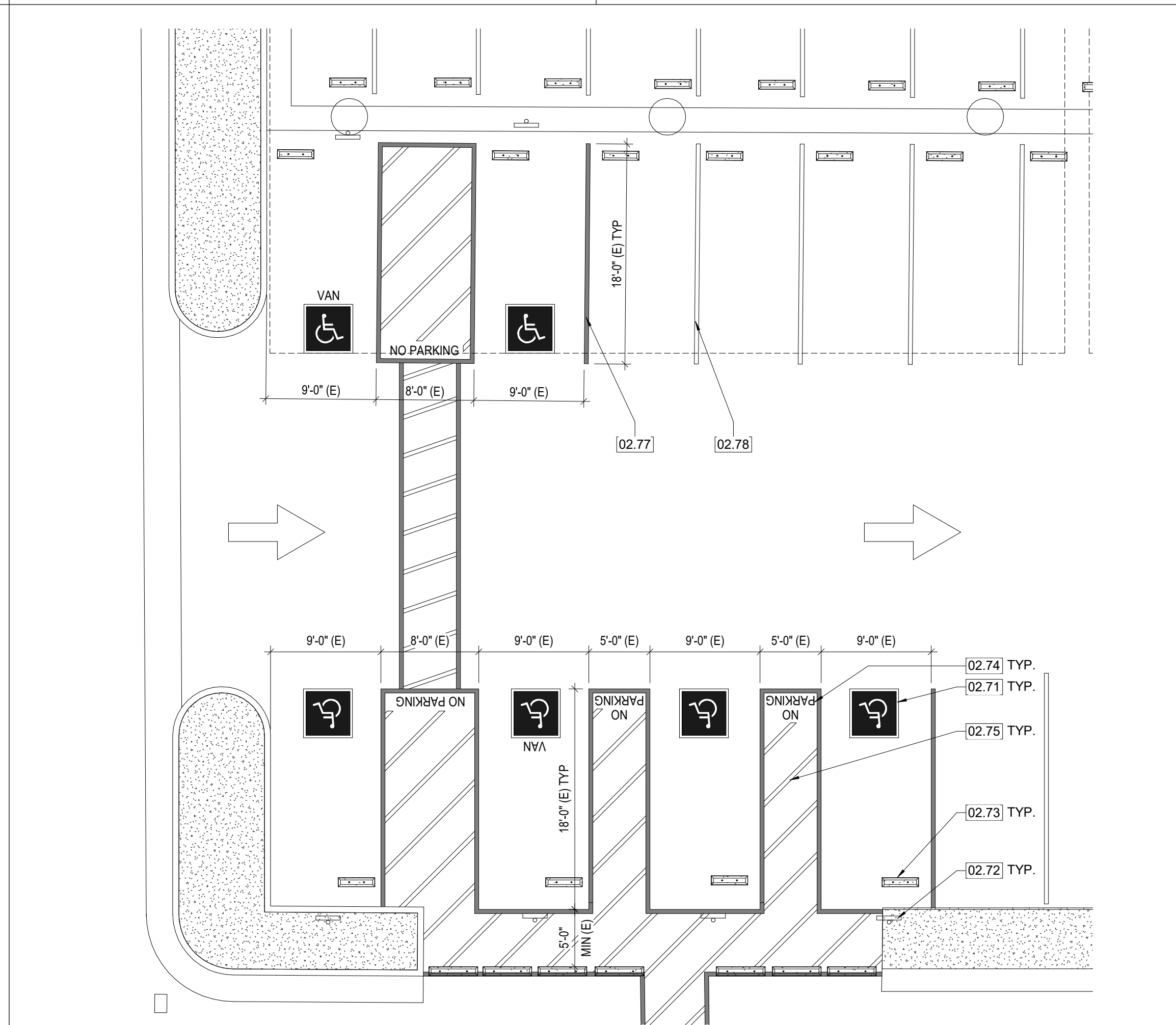
6	ENLARGED SITE PLAN - PASSENGER DROP-OFF & LOADING ZONES 1/8" = 1'-0"
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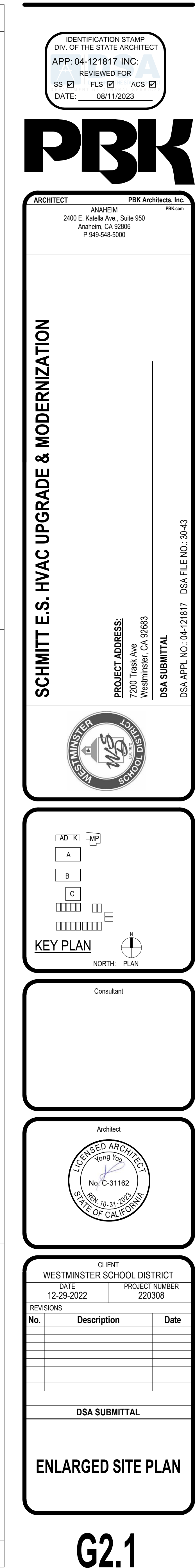


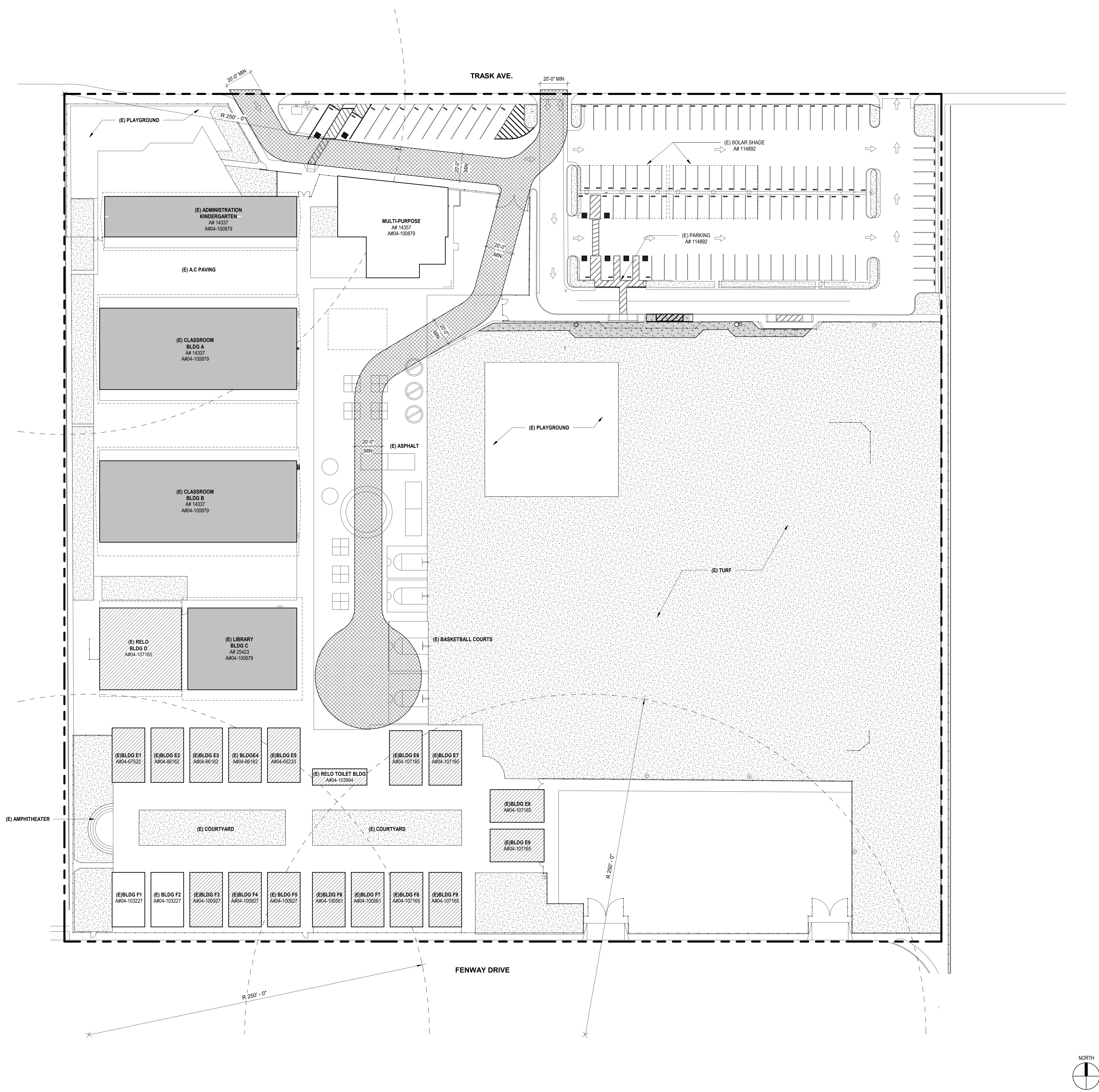
ACCESSIBILITY LEGEND

	PROPERTY LINE
	AREA OF (N) CONCRETE WALKWAY. SEE DETAIL CIVIL PLAN DETAIL.
	<div>1 C3.00</div>



8 ENLARGED ACCESSIBLE PARKING PLAN - LOT 2 (FOR REFERENCE ONLY) A#04-114892
1/8" = 1'-0"





FIRE ACCESS LEGEND / CODE INFORMATION

- PROPERTY LINE
- (E) BUILDING TO BE MODERNIZED
- (E) BUILDING WITH ROOF & FIRE ALARM SCOPE ONLY
- (E) BUILDING N.I.C., NO SCOPE OF WORK
- (E) FIRE ACCESS LANE (AF 04-107165)

IDENTIFICATION STAMP
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REVIEWED FOR
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DATE: 08/11/2023

PBK
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ANAHEIM 2400 E. Katella Ave., Suite 950
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KEY PLAN
NORTH: PLAN

Consultant

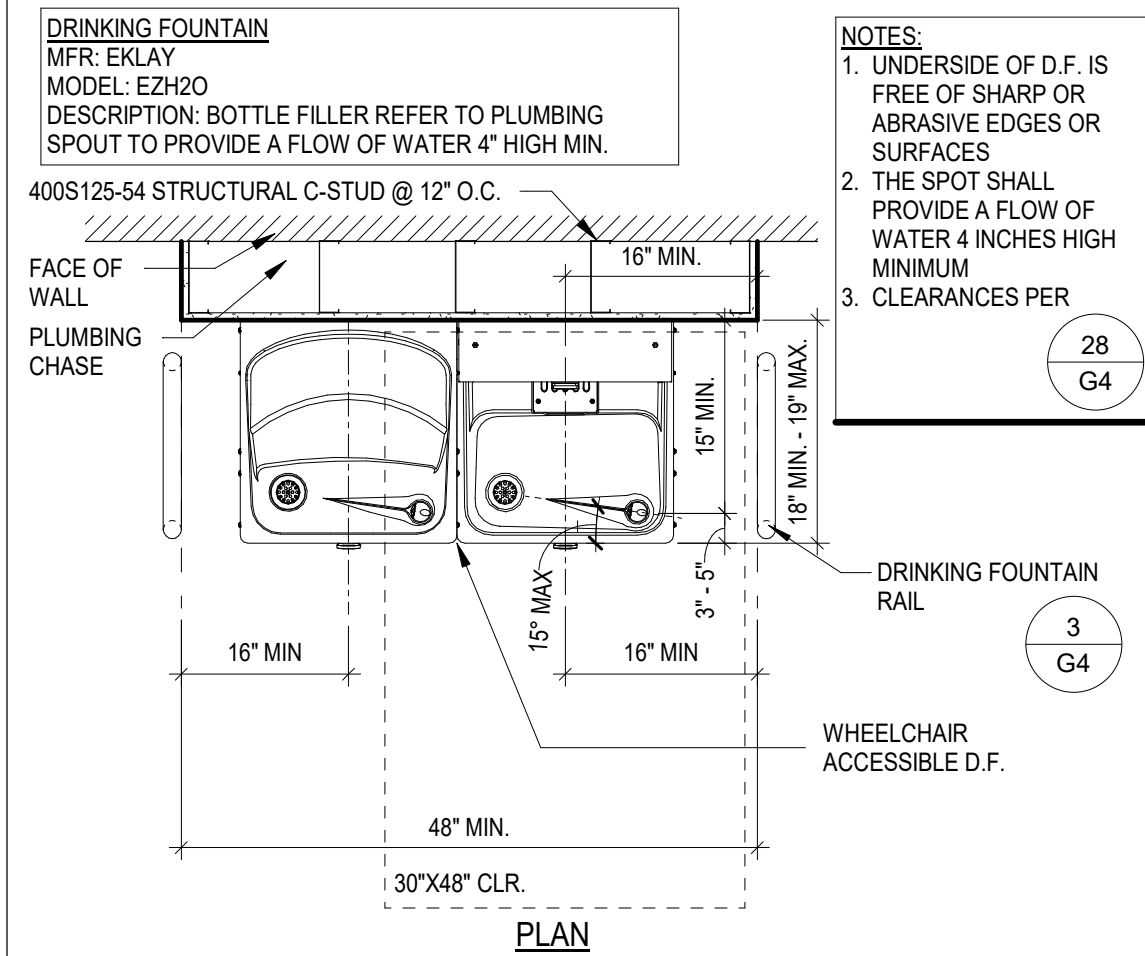
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Exp. 10-31-2023
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CLIENT
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DATE 12-29-2022 PROJECT NUMBER 220308
REVISIONS

No.	Description	Date

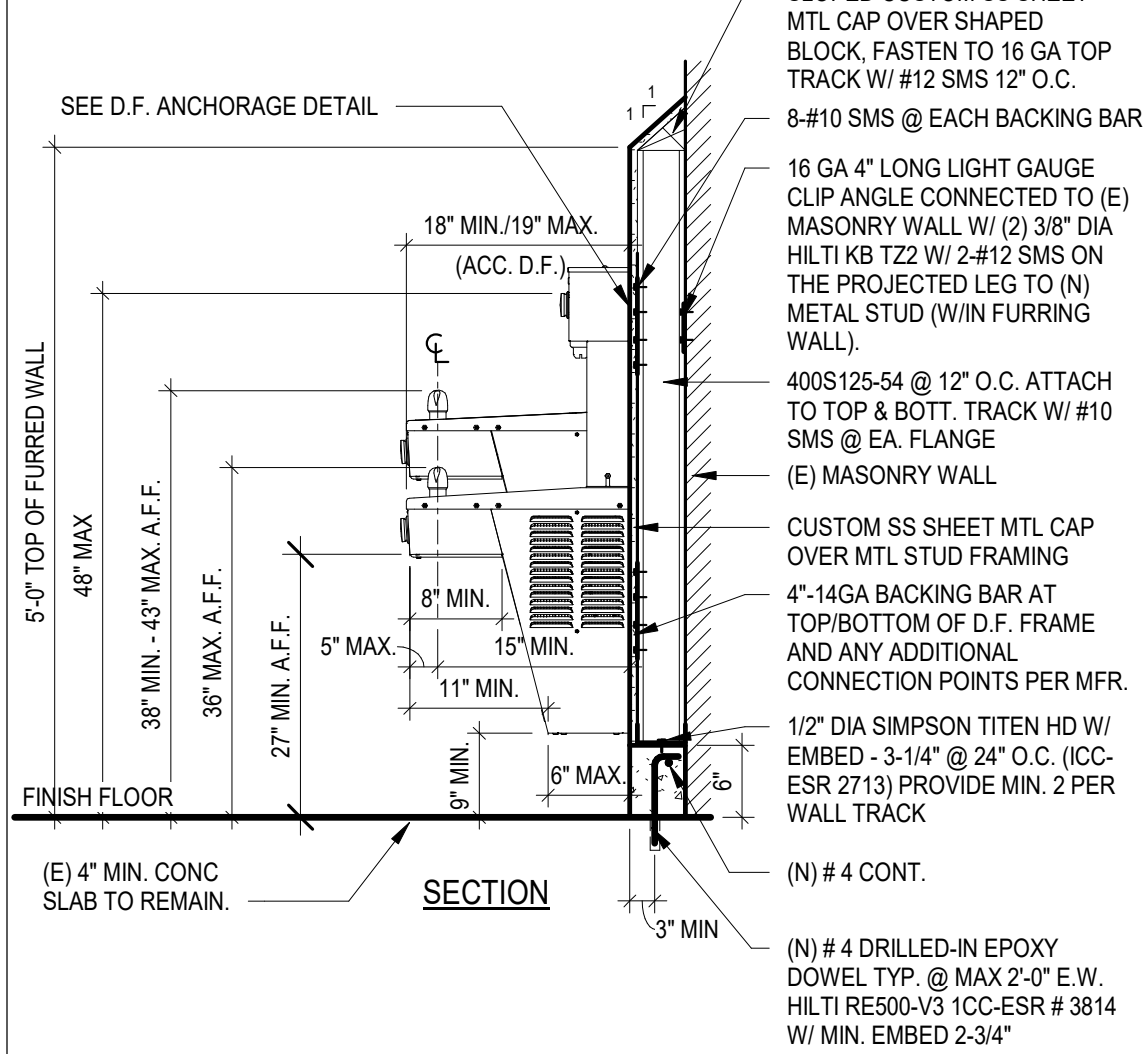
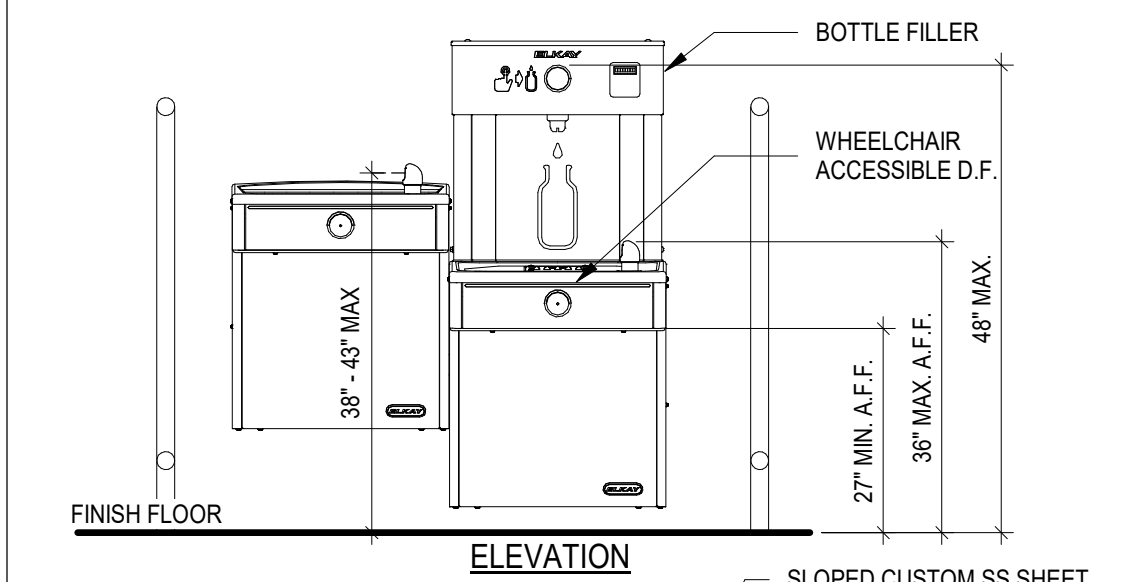
DSA SUBMITTAL
FIRE ACCESS SITE PLAN

G3

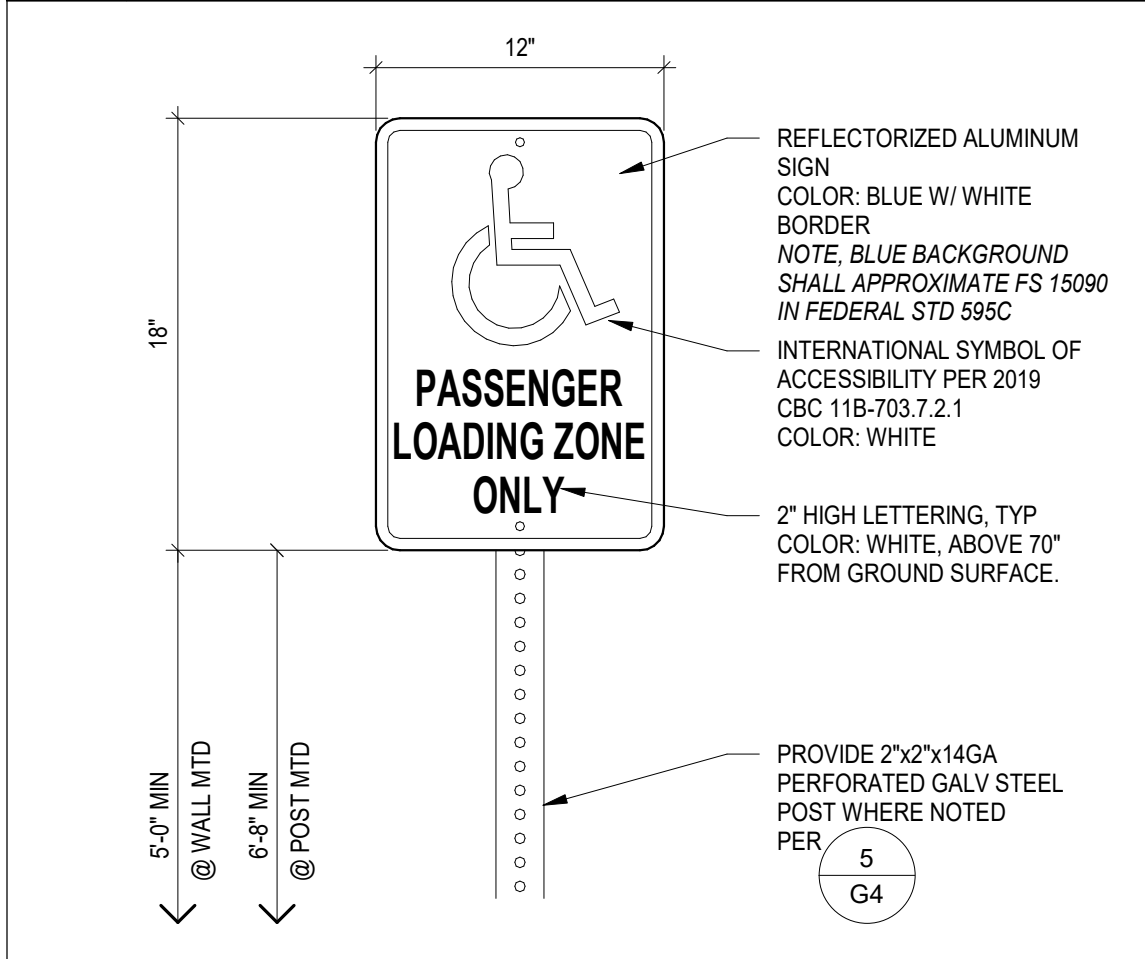


NOTES:

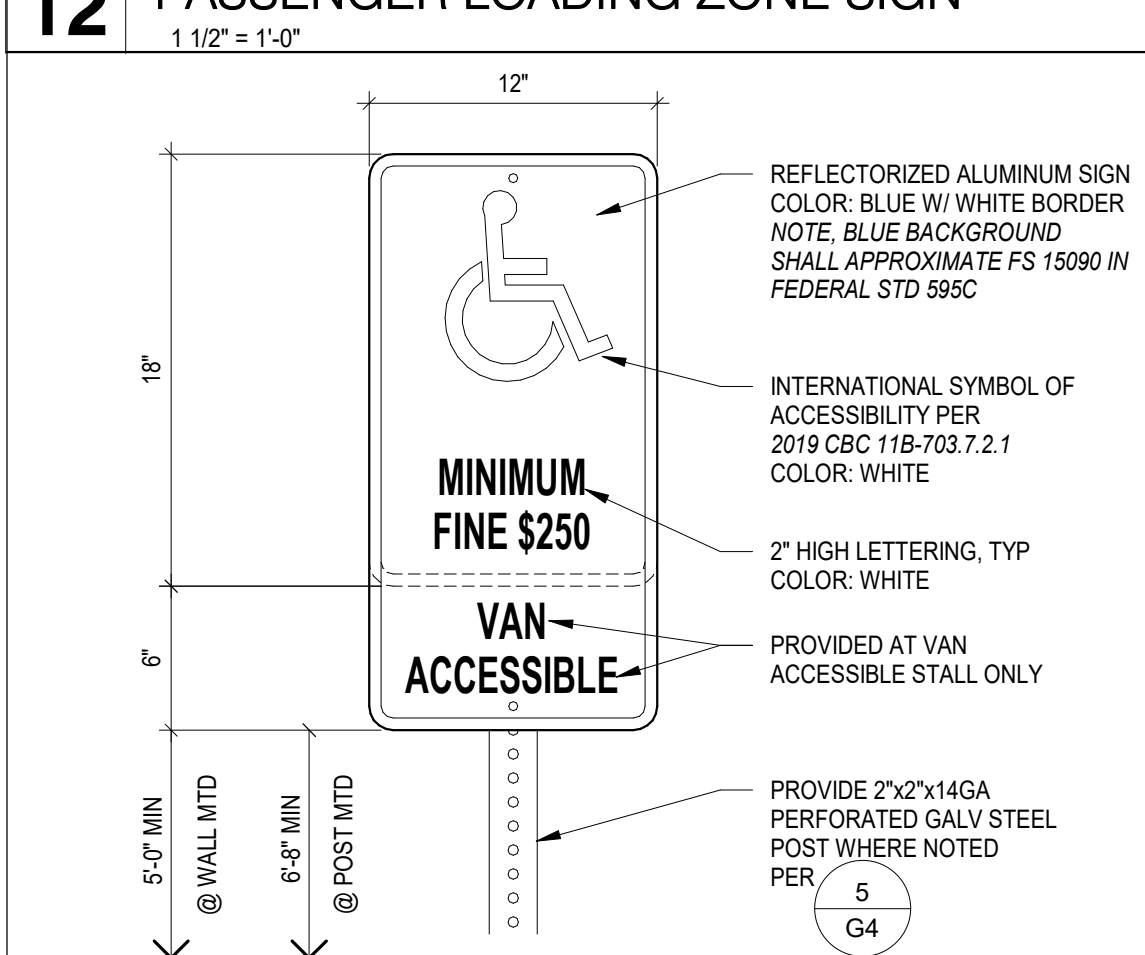
1. 11B-002.6 WATER FLOW THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.



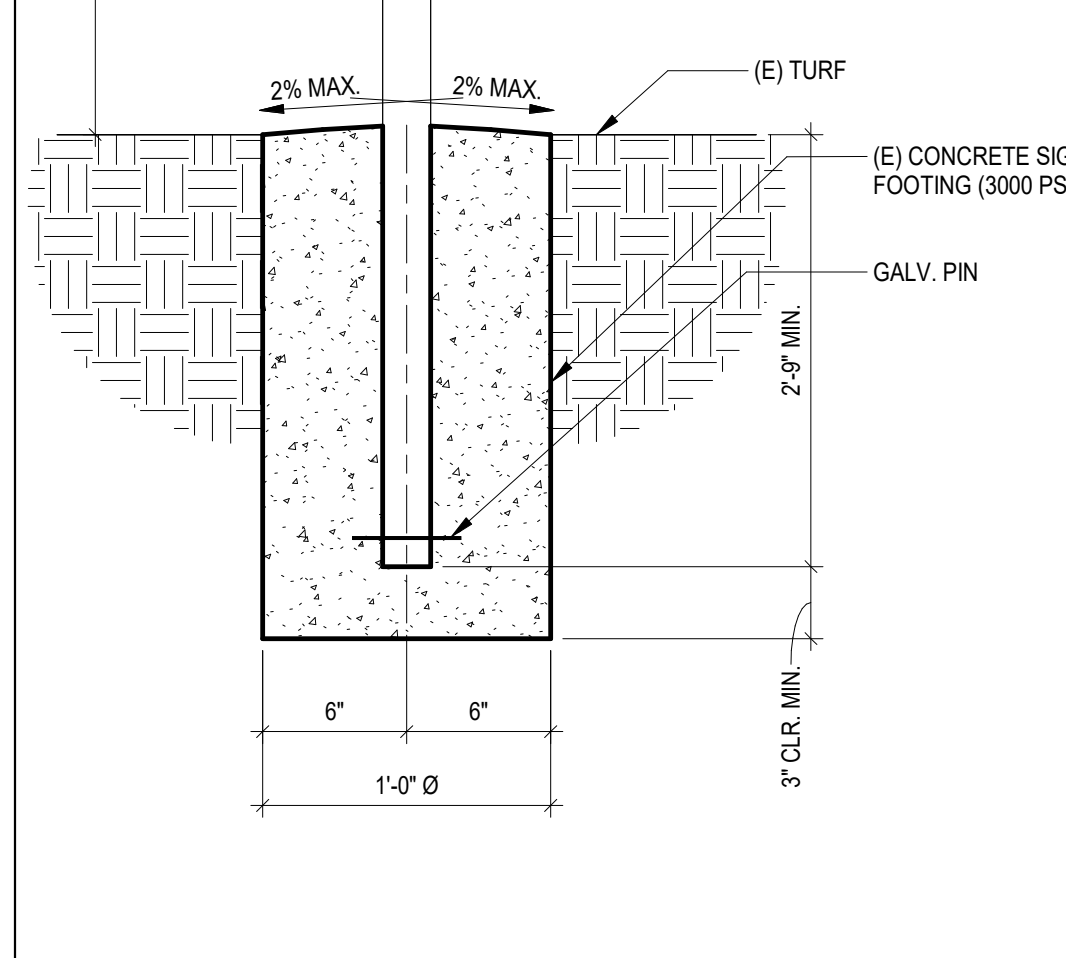
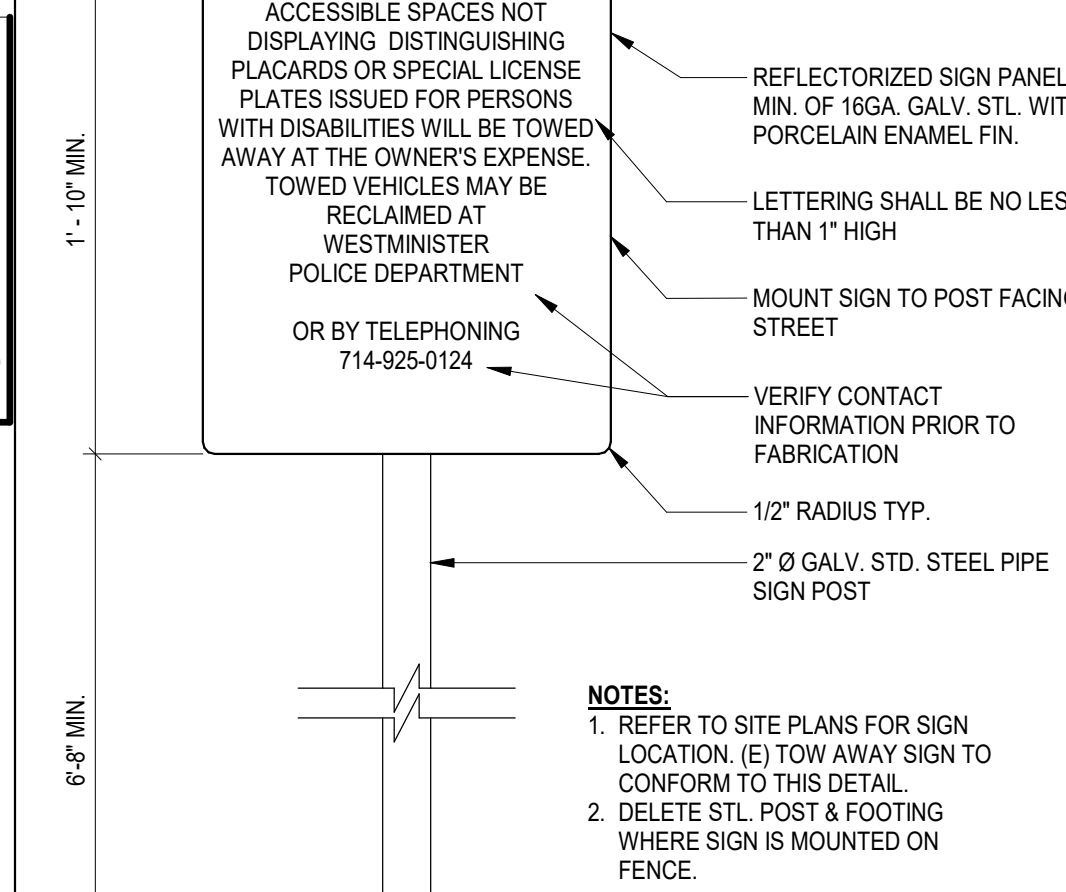
18 ACCESSIBLE DRINKING FOUNTAIN
3/4" = 1'-0"



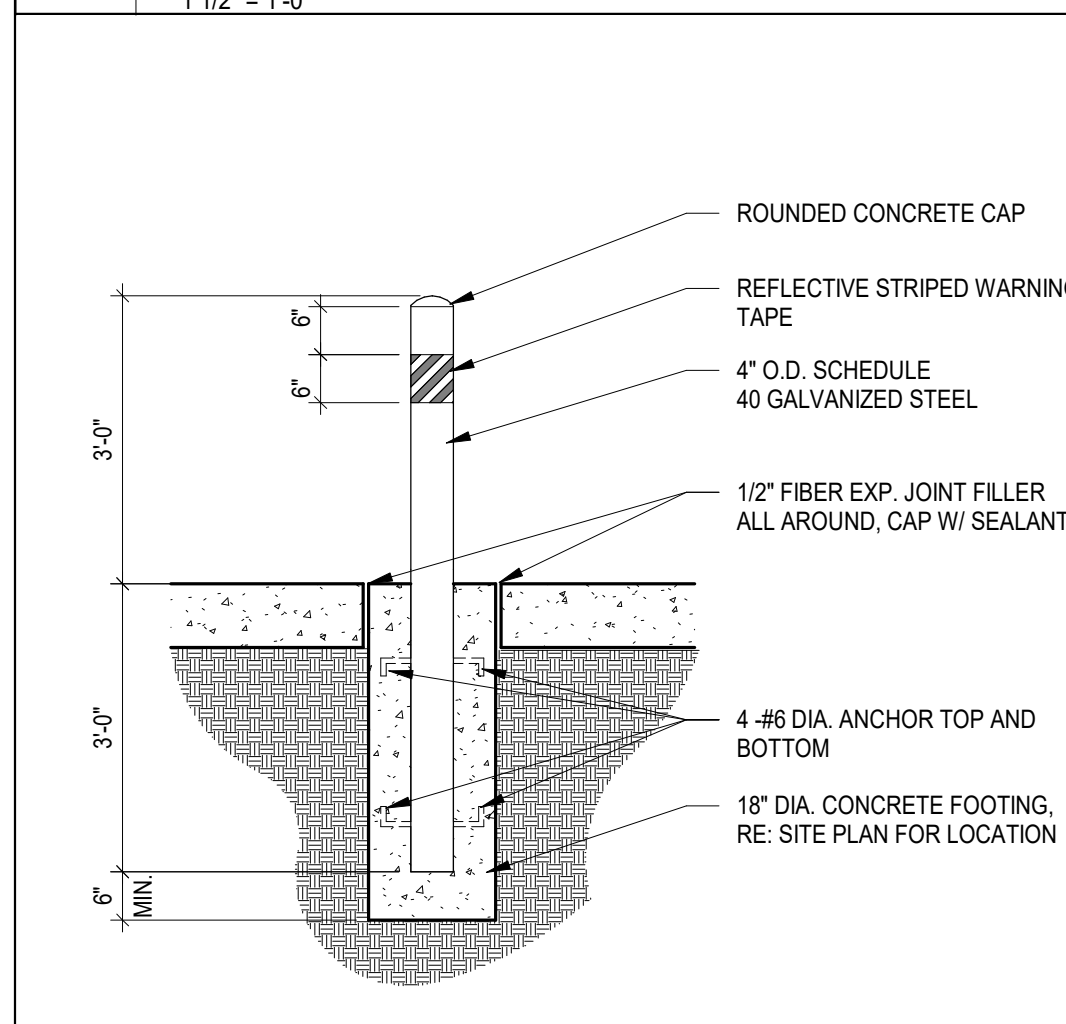
12 PASSENGER LOADING ZONE SIGN
1 1/2" = 1'-0"



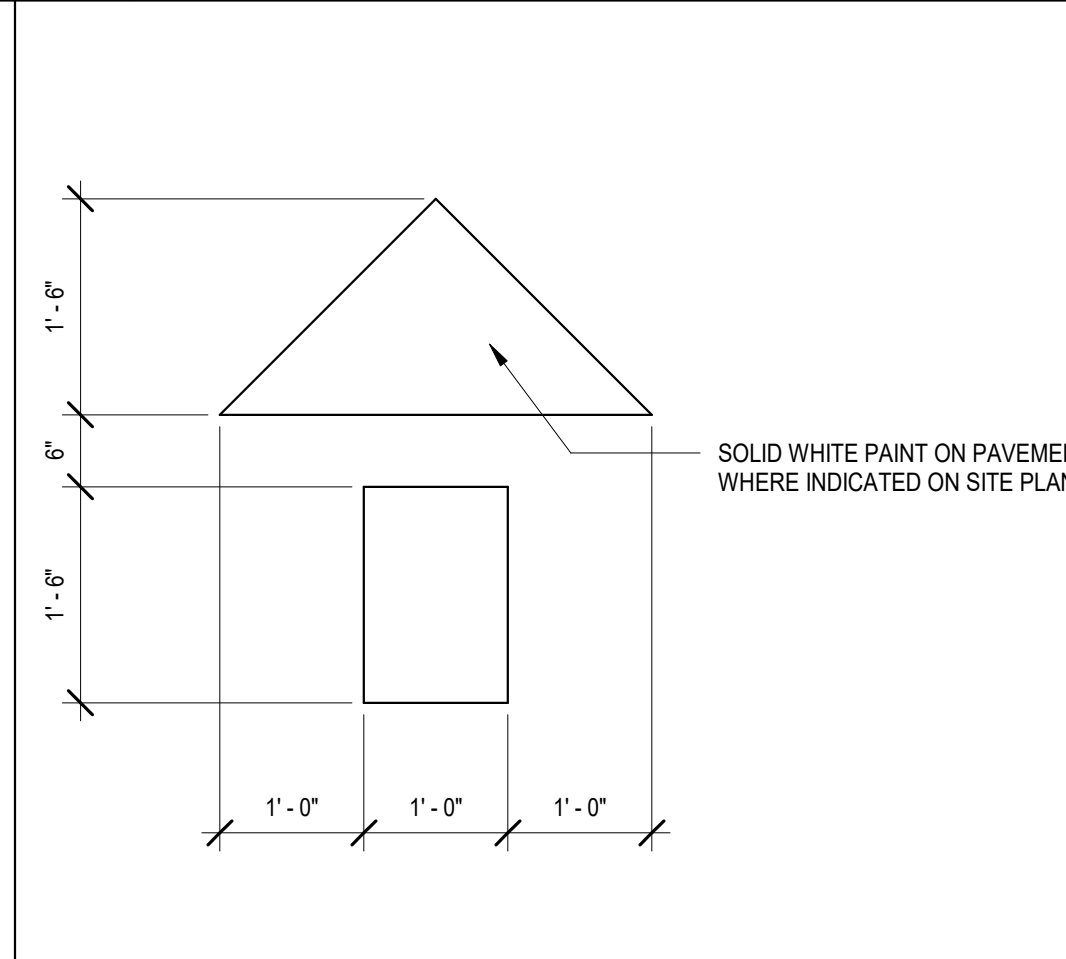
6 ACCESSIBLE PARKING SIGN
1 1/2" = 1'-0"



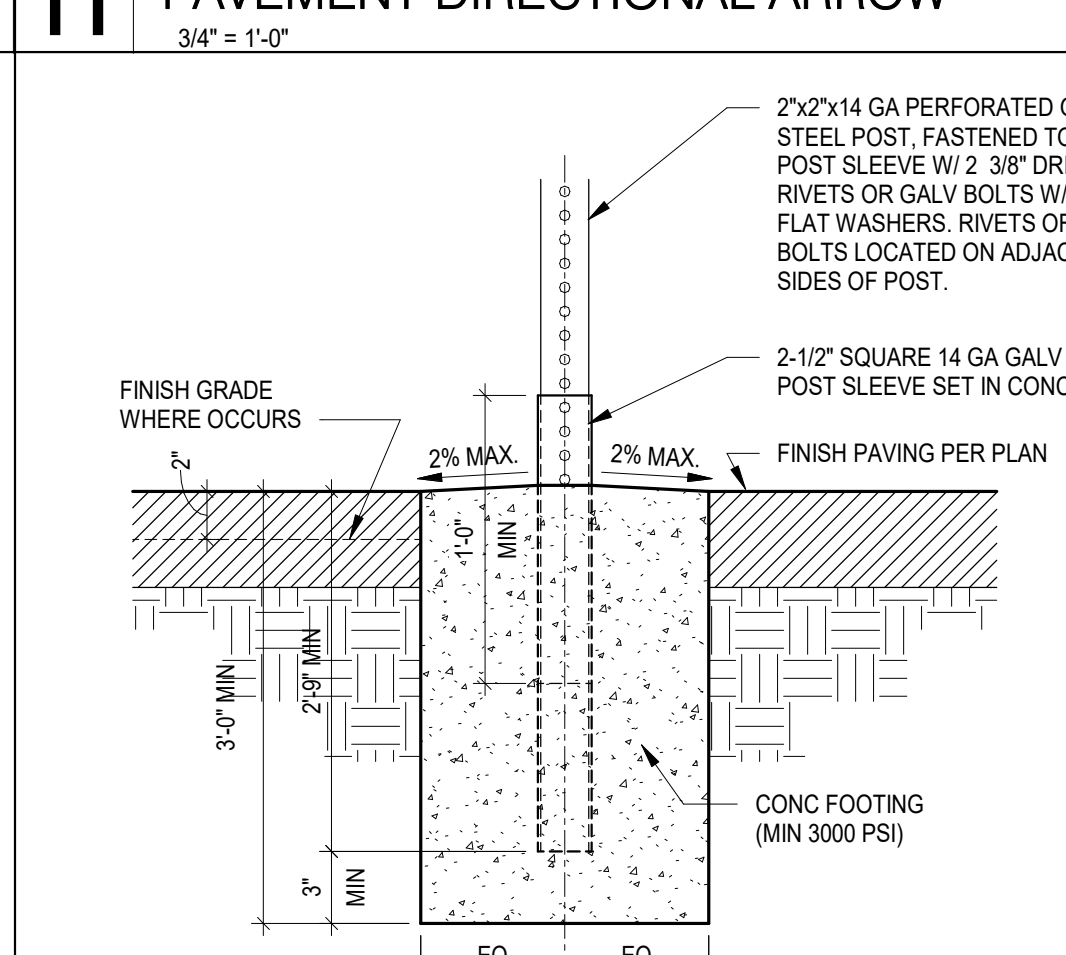
23 TOW AWAY SIGN
1 1/2" = 1'-0"



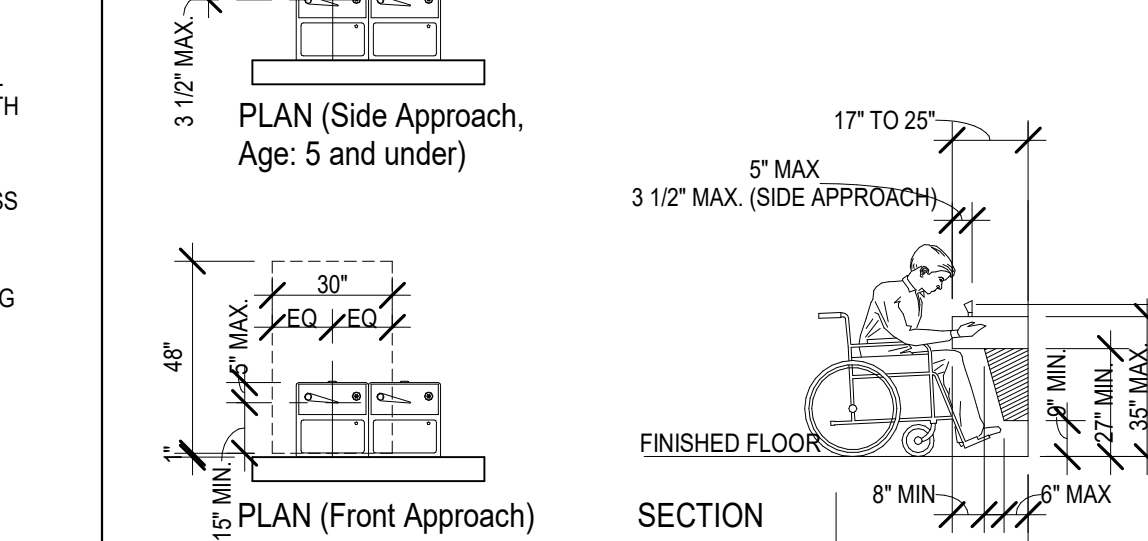
17 GUARD POST/ BOLLARD
1/2" = 1'-0"



11 PAVEMENT DIRECTIONAL ARROW
3/4" = 1'-0"



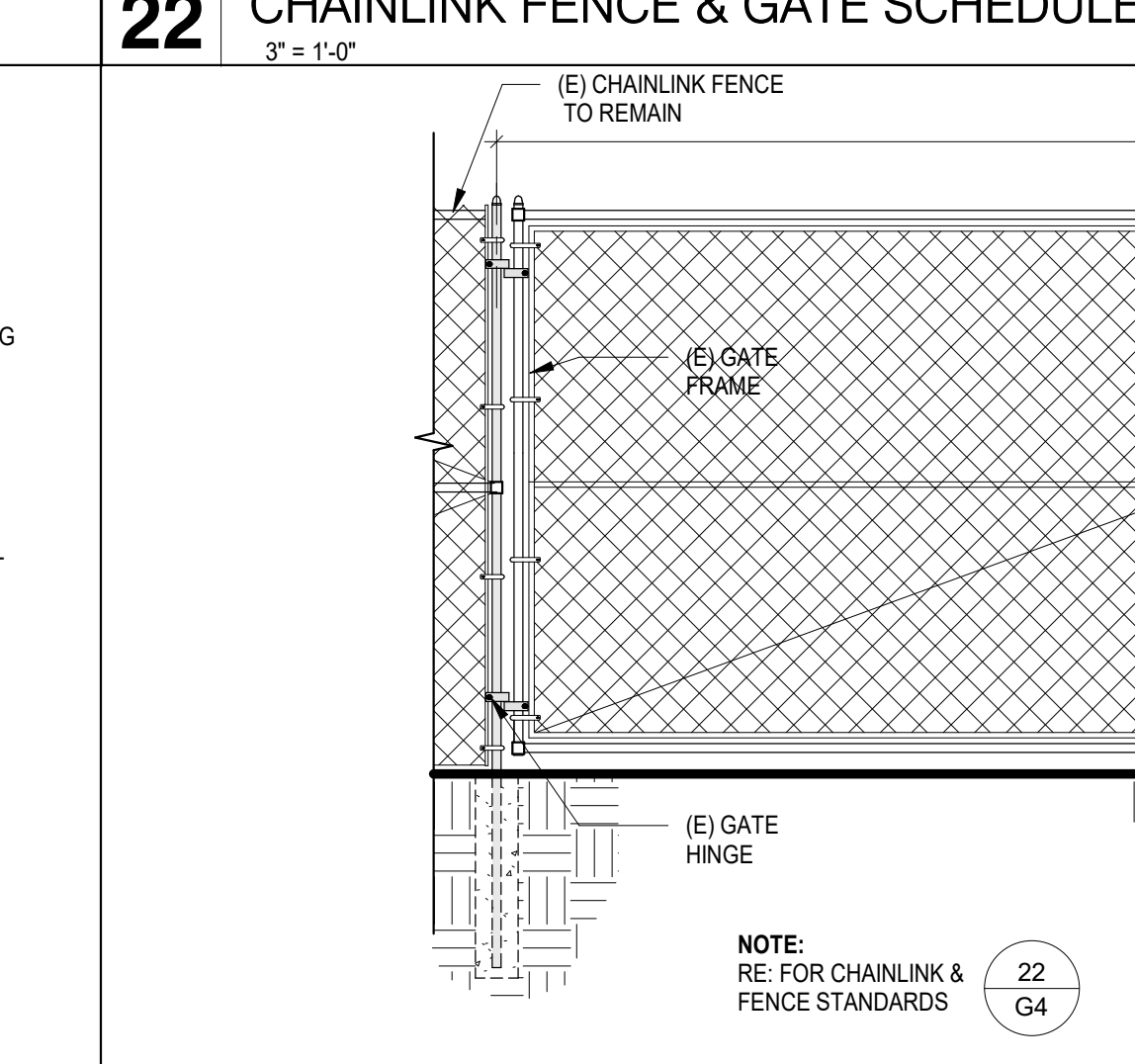
5 SIGN POST DETAIL
1 1/2" = 1'-0"



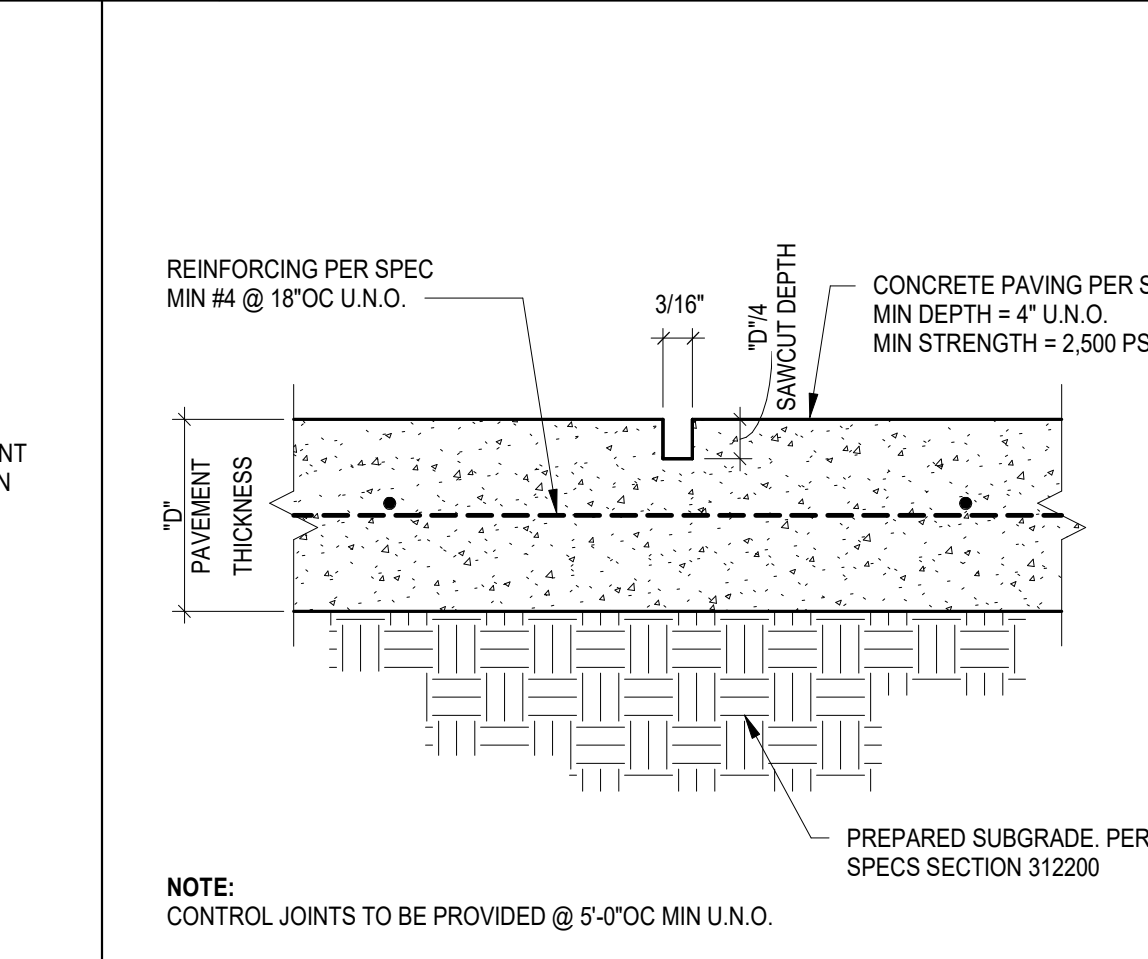
27 CHAINLINK GATE W/ PANIC HARDWARE
1/4" = 1'-0"

Item	Height	Nominal Pipe Size (Inches)	Outside Diameter (Inches)	Weight (pounds per foot)	Conc Footings (rc=3000 psi min Diameter (Inches) Depth (Inches)
Top Rail, Brace Rails and Transom Rails	Up to 10'-0"	1-1/4	1.660	2.27	N/A
	Up to 1'-10"	1-1/2	1.900	2.72	N/A
Line Posts	Up to 6'-0"	2	2.375	2.65	12
	6'-1" to 8'-0"	2	2.375	2.65	12
	8'-1" to 10'-0"	2-1/2	2.875	5.79	12
	10'-1" to 16'-0"	3	3.500	7.58	14
	Up to 8'-0"	2-1/2	2.875	5.79	12
Terminal, Corner, Angle & Pull Posts	8'-1" to 10'-0"	2-1/2	2.875	5.79	14
	10'-1" to 16'-0"	3	3.500	7.58	14
Pedestrian Gate Posts	Up to 8'-0"	2-1/2	2.875	5.79	14
Gate Frames	Up to 8'-0"	1-1/2	1.900	2.72	N/A
Driveway Double-Leaf Swing Gate Posts: Opening	Up to 17' - 3 1/2"	3-1/2	4.000	9.11	16
	17'-4" to 20' - 3 1/2"	3-1/2	4.000	9.11	16

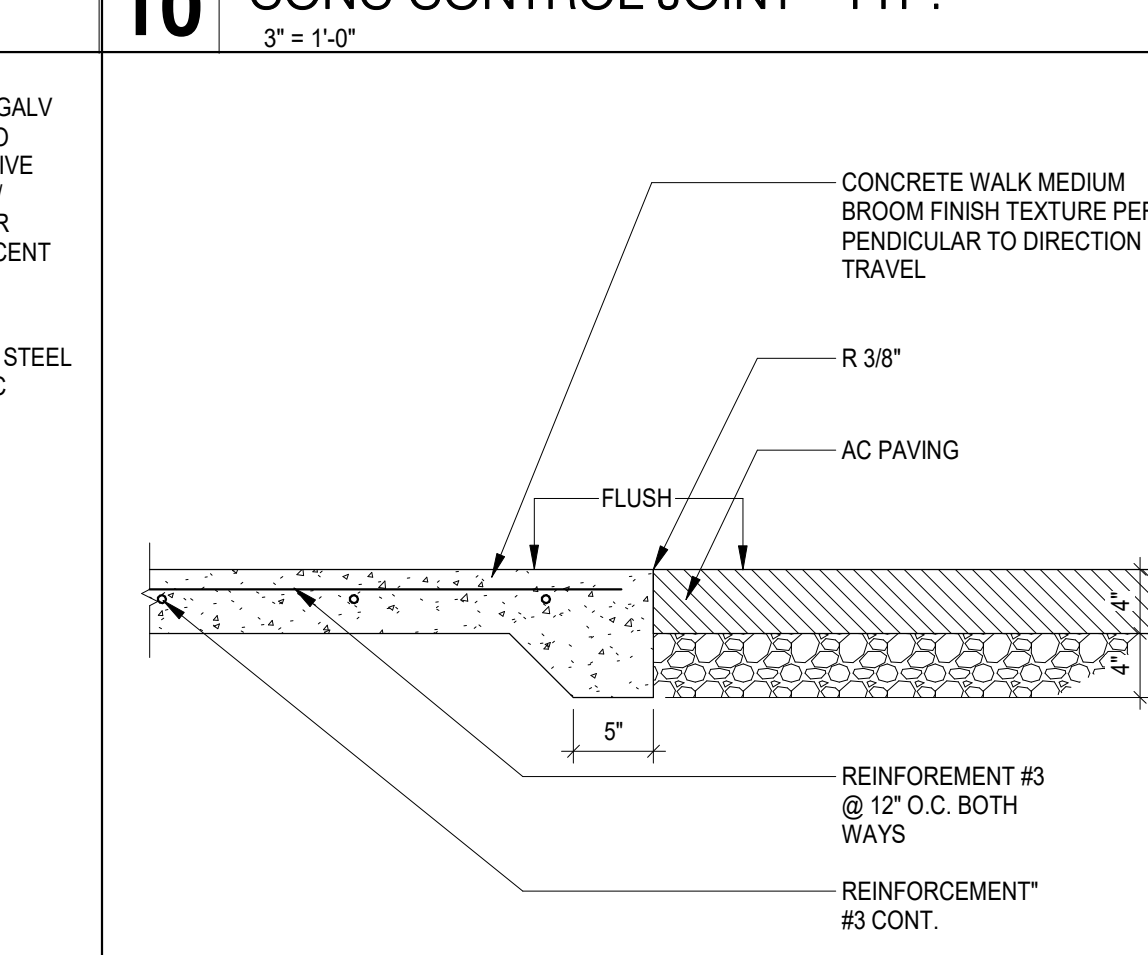
22 CHAINLINK FENCE & GATE SCHEDULE
3" = 1'-0"



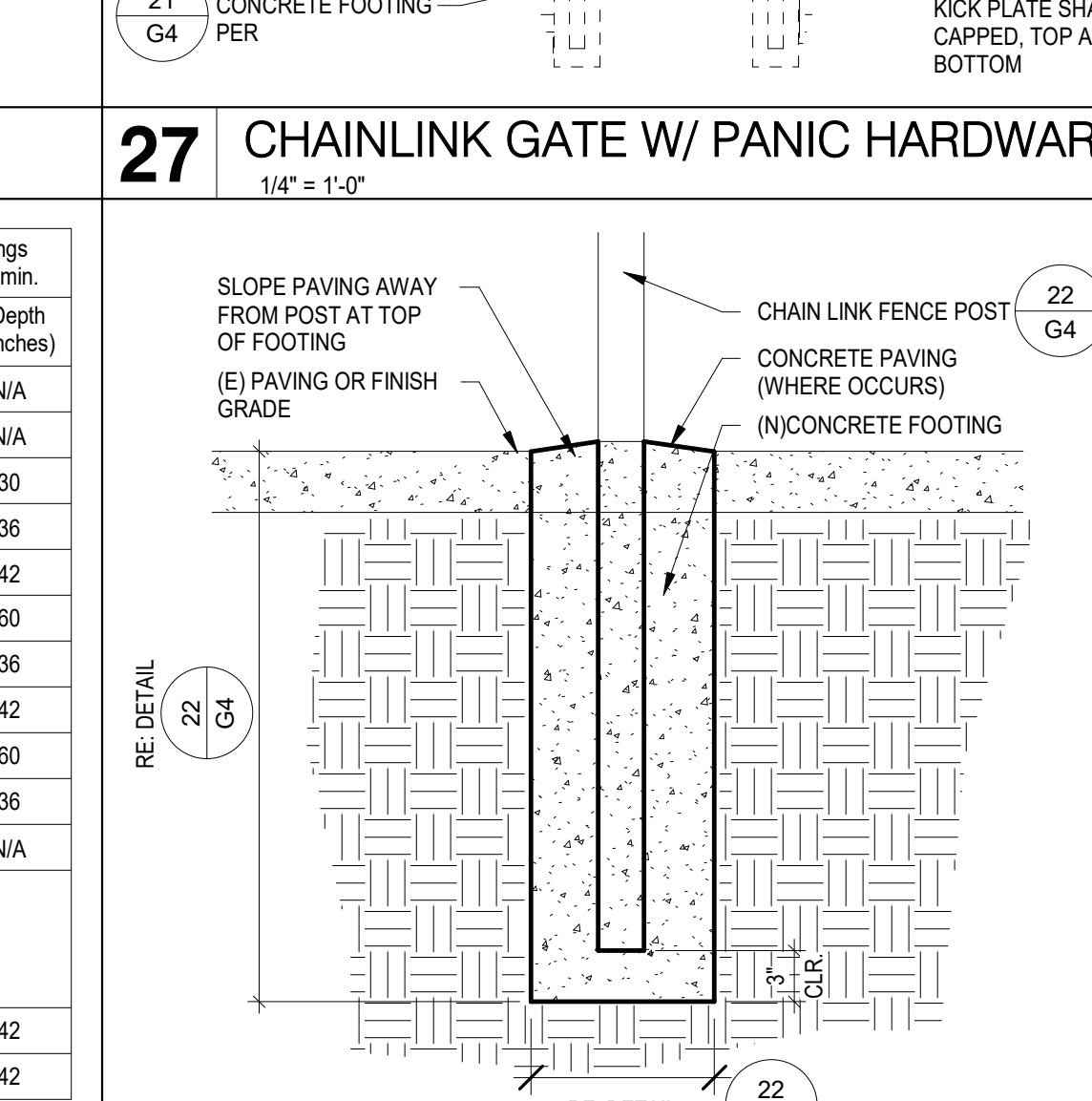
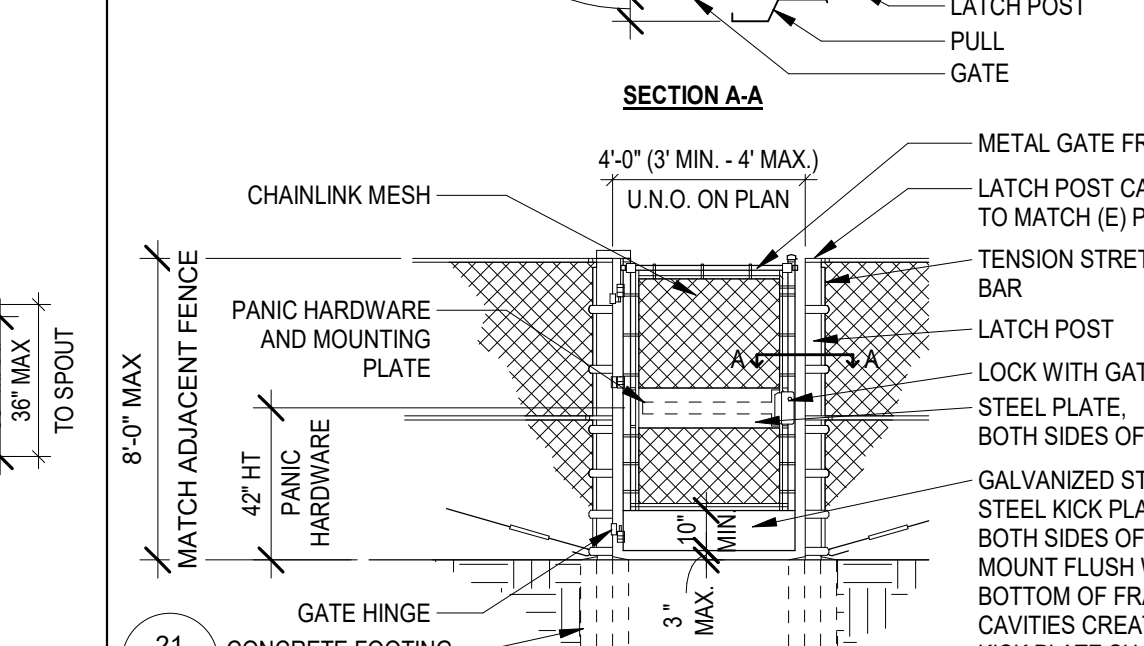
16 CHAINLINK VEHICLE ACCESS GATE
3/8" = 1'-0"



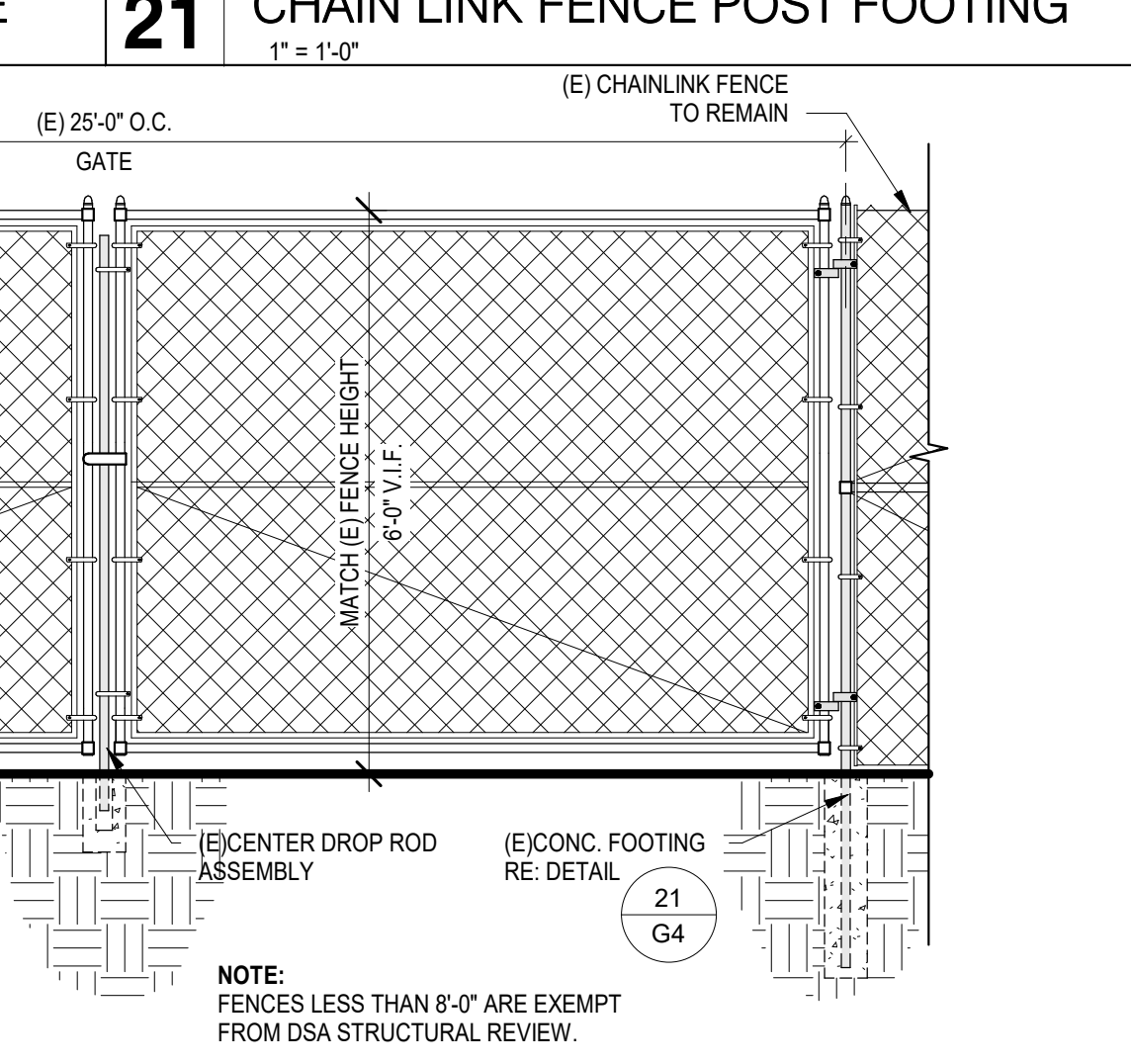
9 CONCRETE WHEEL STOP
1" = 1'-0"



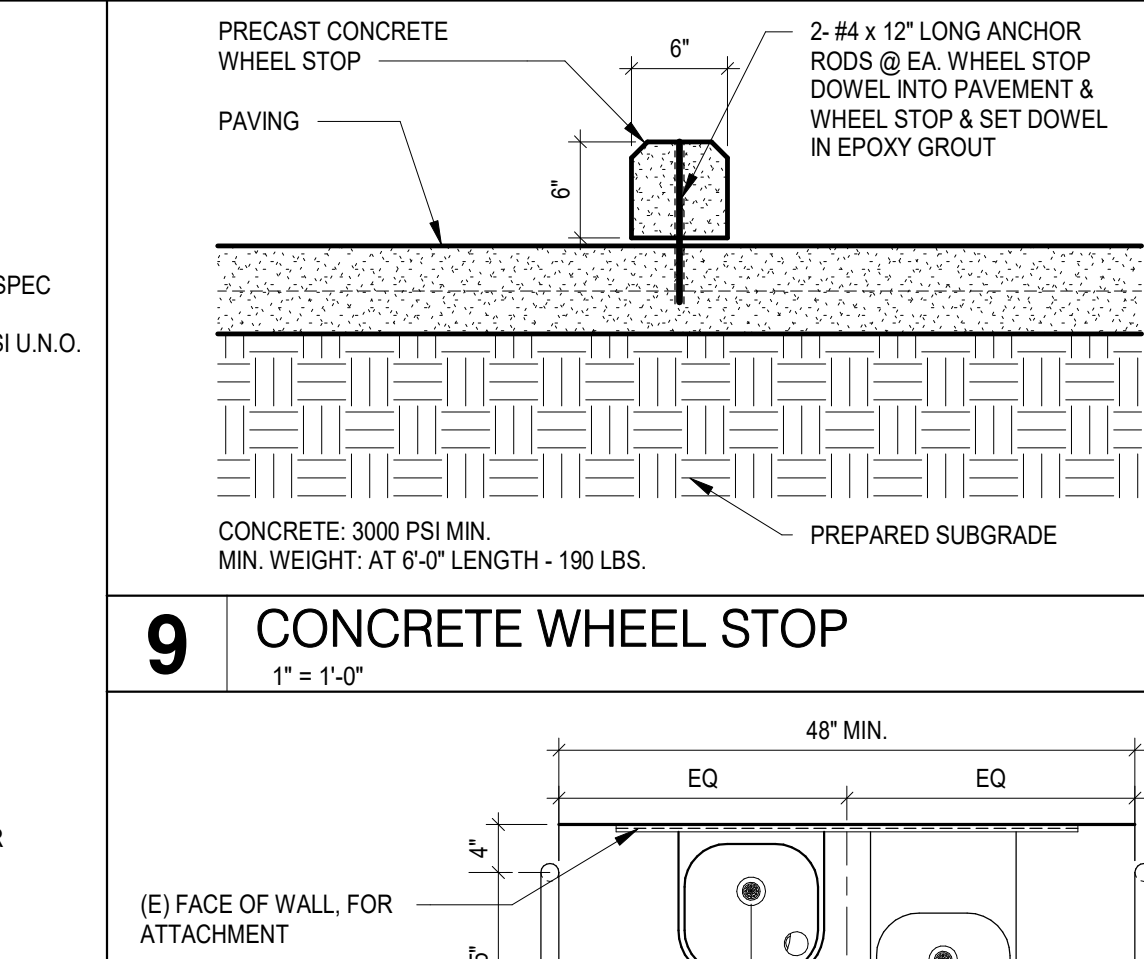
4 (E) CONC. SIDEWALK @ AC PAVING
1" = 1'-0"



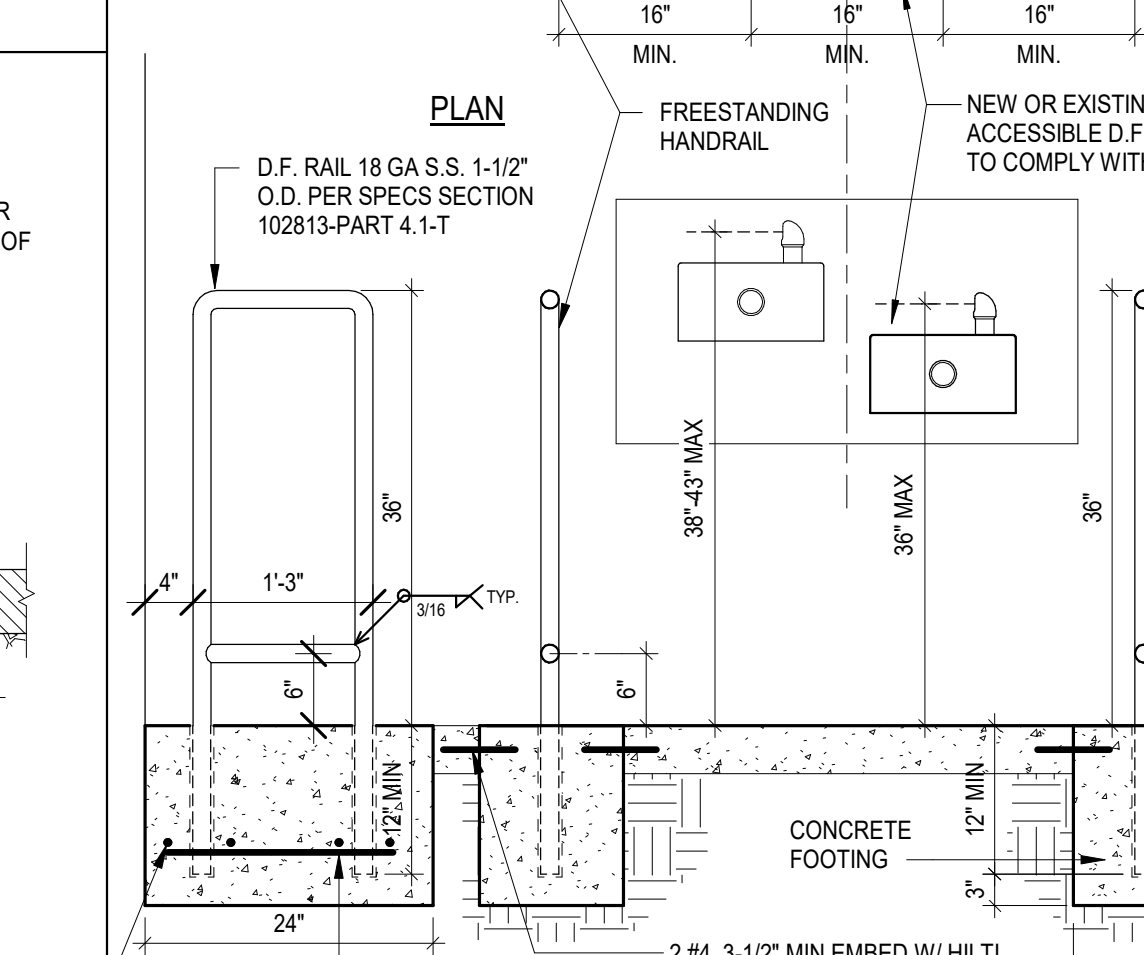
21 CHAIN LINK FENCE POST FOOTING
1" = 1'-0"



21 CHAIN LINK FENCE POST FOOTING
1" = 1'-0"

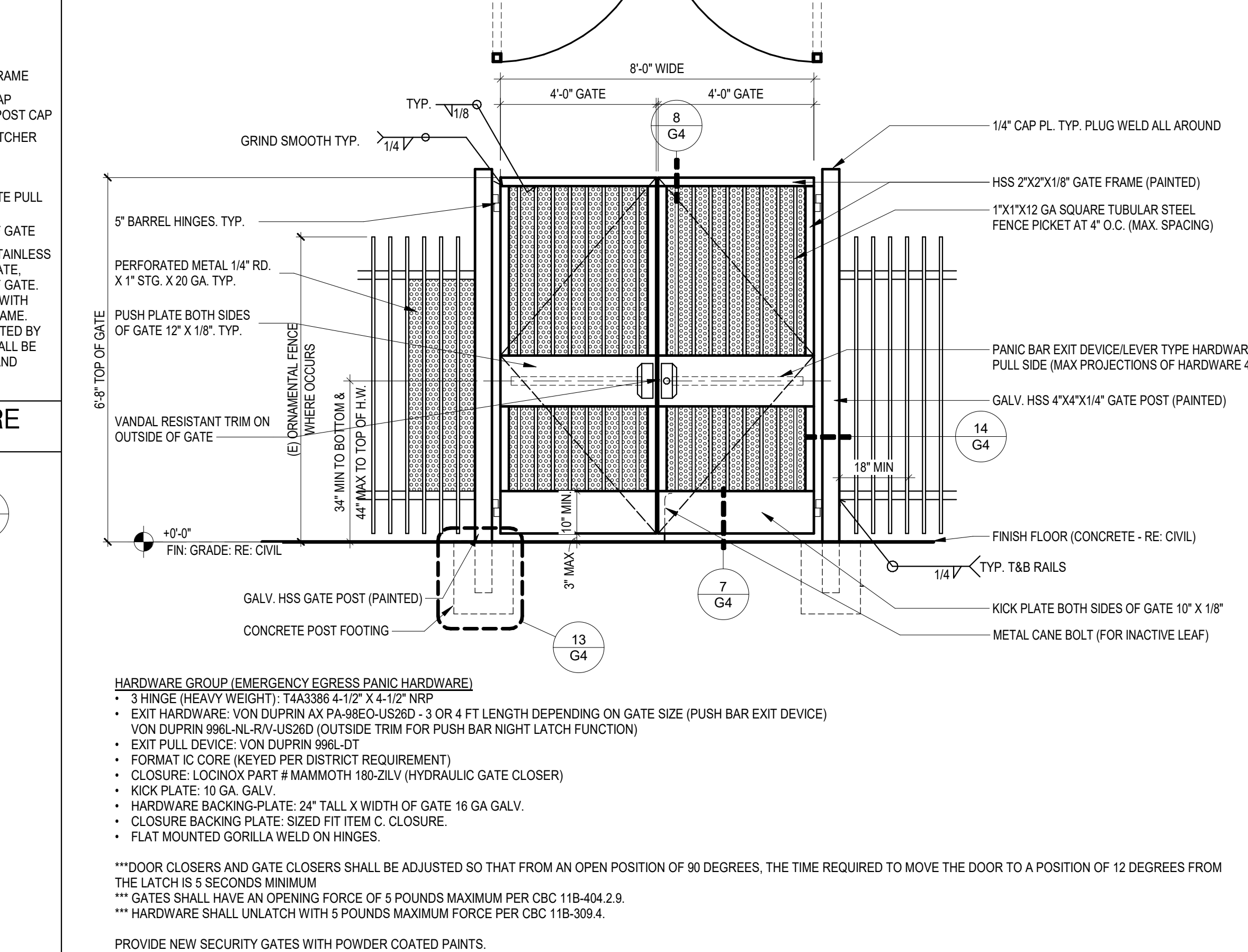


14 HM GATE JAMB DETAIL
3" = 1'-0"

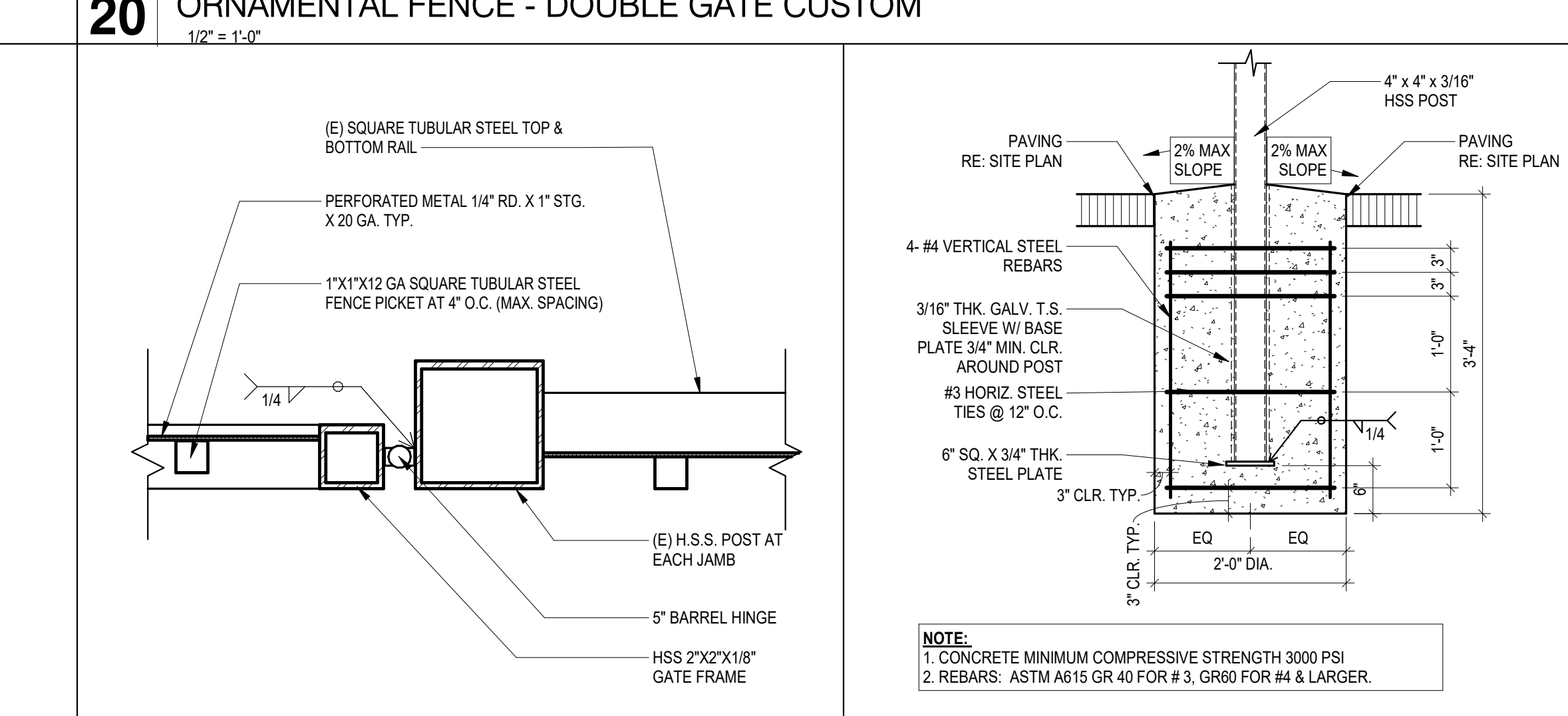


8 HM GATE HEAD DETAIL
3" = 1'-0"

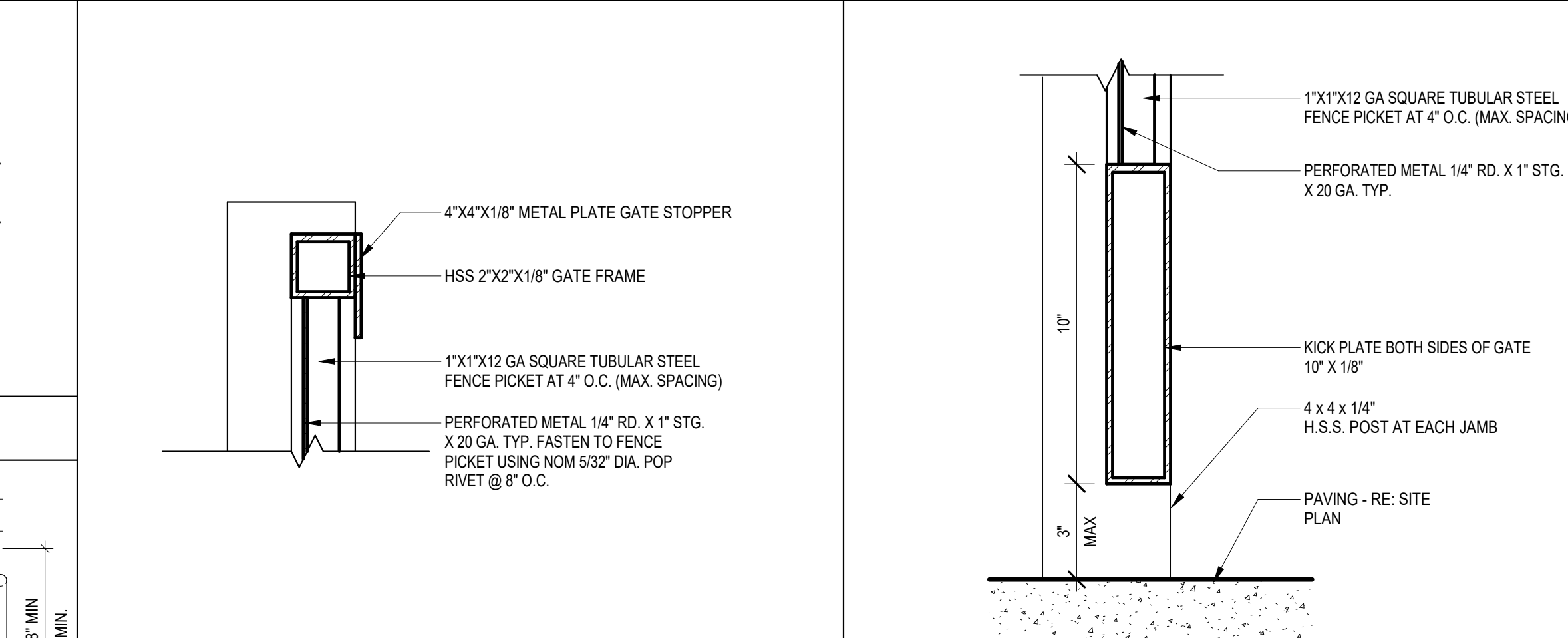
2 ACCESSIBLE PEDESTRIAN PATH
1/2" = 1'-0"



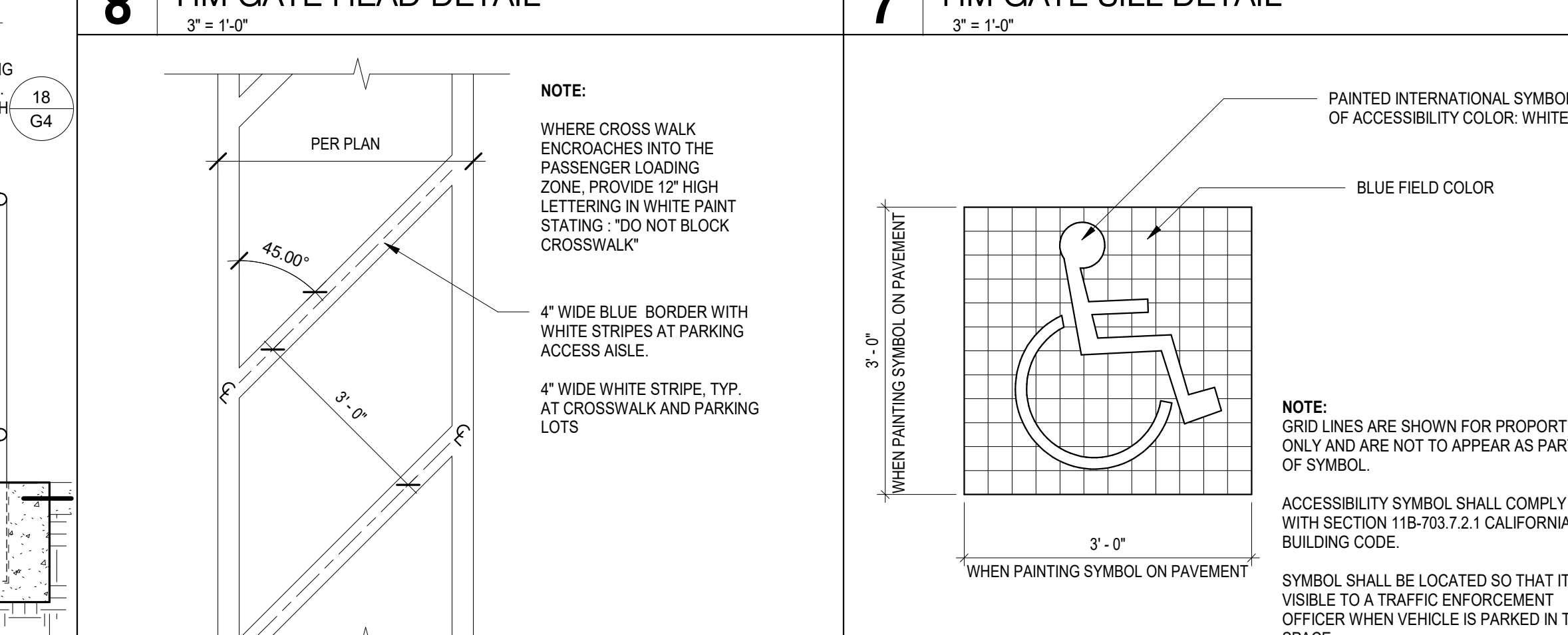
20 ORNAMENTAL FENCE - DOUBLE GATE CUSTOM
1/2" = 1'-0"



13 STEEL COLUMN AT METAL GATES
3/4" = 1'-0"



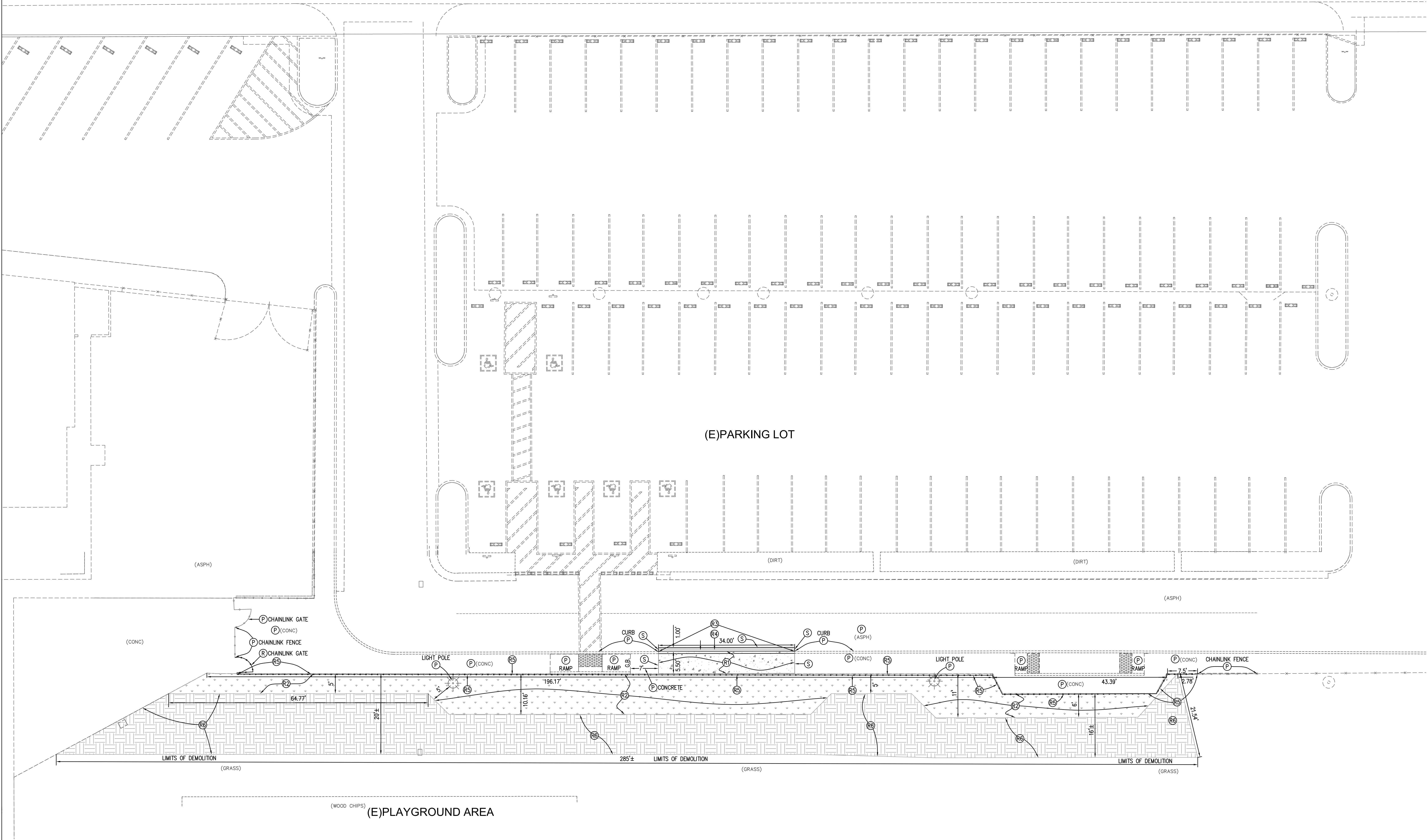
7 HM GATE SILL DETAIL
3" = 1'-0"



2 ACCESSIBLE PEDESTRIAN PATH
1/2" = 1'-0"

1 ACCESSIBLE PARKING SYMBOL
3/4" = 1'-0"

TRASK AVENUE



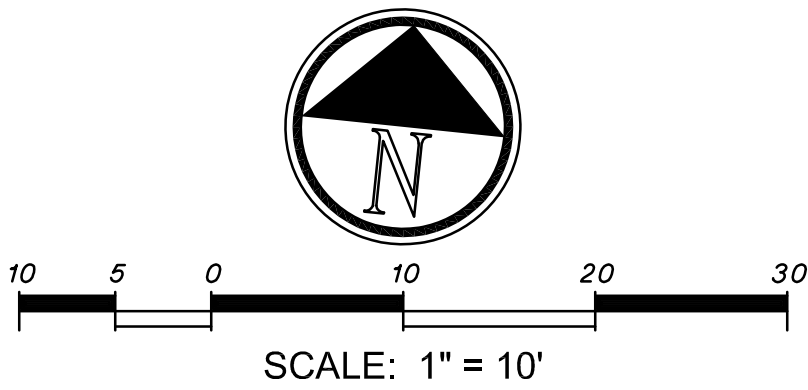
GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.

CONSTRUCTION STORM WATER NOTE:
GRADING WORK ASSOCIATED WITH THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF SOIL AND THUS SHALL NOT BE SUBJECT TO COMPLY WITH THE NPDES STORMWATER CONSTRUCTION GENERAL PERMIT 2009-0009-DWQ.

- DEMOLITION NOTES:
- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
 - (S) SAWCUT EXISTING PAVEMENT WITH CLEAN EDGE.
 - (R) REMOVE & DISPOSE OF EXISTING IMPROVEMENT.
 - (R1) REMOVE & DISPOSE OF EXISTING 4" THICK CONCRETE PAVEMENT & BASE MATERIAL.
 - (R2) CLEAR AND GRUB EXISTING TURF AND REMOVE IRRIGATION HEADS / PIPES. PREP SUBGRADE FOR NEW CONCRETE PER CONCRETE PAVEMENT DETAIL 1 ON C3.00.
 - (R3) REMOVE & DISPOSE OF EXISTING CONCRETE CURB.
 - (R4) SAWCUT ASPHALT PAVEMENT 12" OUTSIDE OF EXISTING CURB WITH CLEAN EDGE. REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT & BASE MATERIAL.
 - (R5) REMOVE & DISPOSE OF EXISTING CHAIN LINK FENCE, POSTS AND FOOTINGS.
 - (R6) CLEAR AND GRUB EXISTING TURF. ADJUST EXISTING IRRIGATION HEADS TO NEW CONTOURS SHOWN ON GRADING PLAN.

- HATCH LEGEND:
- [Hatched Box] = EXISTING ASPHALT PAVEMENT TO BE REMOVED
 - [Hatched Box] = EXISTING CONCRETE PAVEMENT TO BE REMOVED
 - [Hatched Box] = CLEAR AND GRUB TURF / PREP SUBGRADE FOR NEW CONCRETE (R2)
 - [Hatched Box] = CLEAR AND GRUB TURF (R6)



PLANS PREPARED BY:
FPL *FPL and Associates, Inc.*
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
Phone: 949-252-1688

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APP: 04-121817 INC:
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PBK

ARCHITECT PBK Architects, Inc.
ANAHEIM
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
P 949-548-5000

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

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7200 Trask Ave
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DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. 30-43



KEY PLAN

NORTH: PLAN

Consultant

Professional Engineer Seal for Westminister School District, State of California, License No. 34917, dated 09-20-23.

Architect

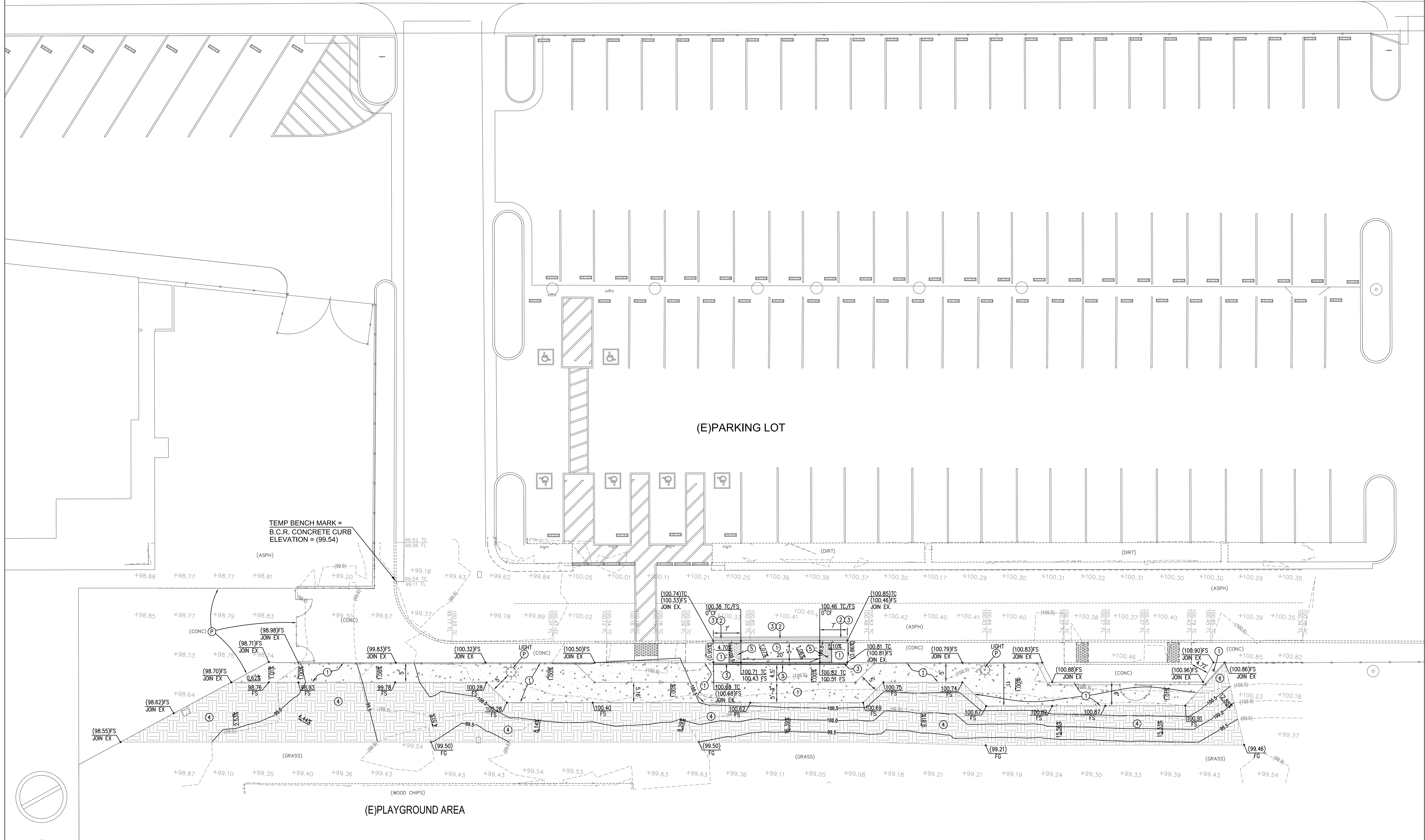
CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE		PROJECT NUMBER
05-11-2023		220308
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

DEMOLITION PLAN

C1.00

TRASK AVENUE



HORIZONTAL CONTROL

AN AUTOCAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.

CONSTRUCTION STORM WATER NOTE: GRADING WORK ASSOCIATED WITH THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF SOIL AND THUS SHALL NOT BE SUBJECT TO COMPLY WITH THE NPDES STORMWATER CONSTRUCTION GENERAL PERMIT 2009-0009-DWQ.

HATCH LEGEND:

- = NEW CONCRETE PAVEMENT ①
- = NEW ASPHALT PAVEMENT ②
- = CLEAR AND GRUB TURF ④

CONSTRUCTION NOTES:

- ② PROTECT EXISTING IMPROVEMENT IN PLACE.
- ③ REMOVE EXISTING IMPROVEMENT.
- ① CONSTRUCT CONCRETE PAVEMENT PER DETAIL 1/C3.00.
- ② CONSTRUCT 12" WIDE BY 3.0" THICK NEW ASPHALT PAVEMENT, CLASS AND GRADE SHALL BE TYPE III, C3, PG-64-10, PER S.S.F.M.C. SECTION 203-6.4.3. CONSTRUCT 3.0" OF CRUSHED AGGREGATE BASE UNDER ASPHALT, COMPACTED TO MINIMUM 95% RELATIVE DENSITY. NEW ASPHALT SHALL BE FLUSH WITH EXISTING ASPHALT. THE EXPOSED BOTTOM SOILS SHOULD THEN BE RIPPED AND SCARIFIED, AND MOISTURE CONDITIONED TO SEVERAL POINTS ABOVE OPTIMUM MOISTURE BEFORE BEING RECOMPACTED IN PLACE TO A COMPACTION OF 90 PERCENT OR GREATER OF THE LABORATORY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D 1557.
- ③ CONSTRUCT CONCRETE CURB PER DETAIL 3/C3.00 AND GRADES HEREON.
- ④ REGRADE EXISTING GROUND AND INSTALL NEW SOD, TO MATCH EXISTING TURF, ADJUST IRRIGATION HEADS AND PIPING AS NECESSARY.
- ⑤ CONSTRUCT TRUNCATED DOMES PER DETAIL 21/G2.1.



10 5 0 10 20 30
SCALE: 1" = 10'

PLANS PREPARED BY:
FPL *FPL and Associates, Inc.*
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
Phone: 949-252-1688

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

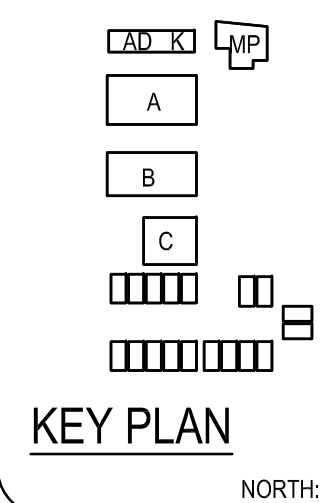
PBK

ARCHITECT PBK Architects, Inc.
ANAHEIM
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
P 949-549-5000

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
7200 Trask Ave
Westminster, CA 92683

DSA SUBMITTAL
DSA APL NO. 04-121817 DSA FILE NO. 30-43



Architect

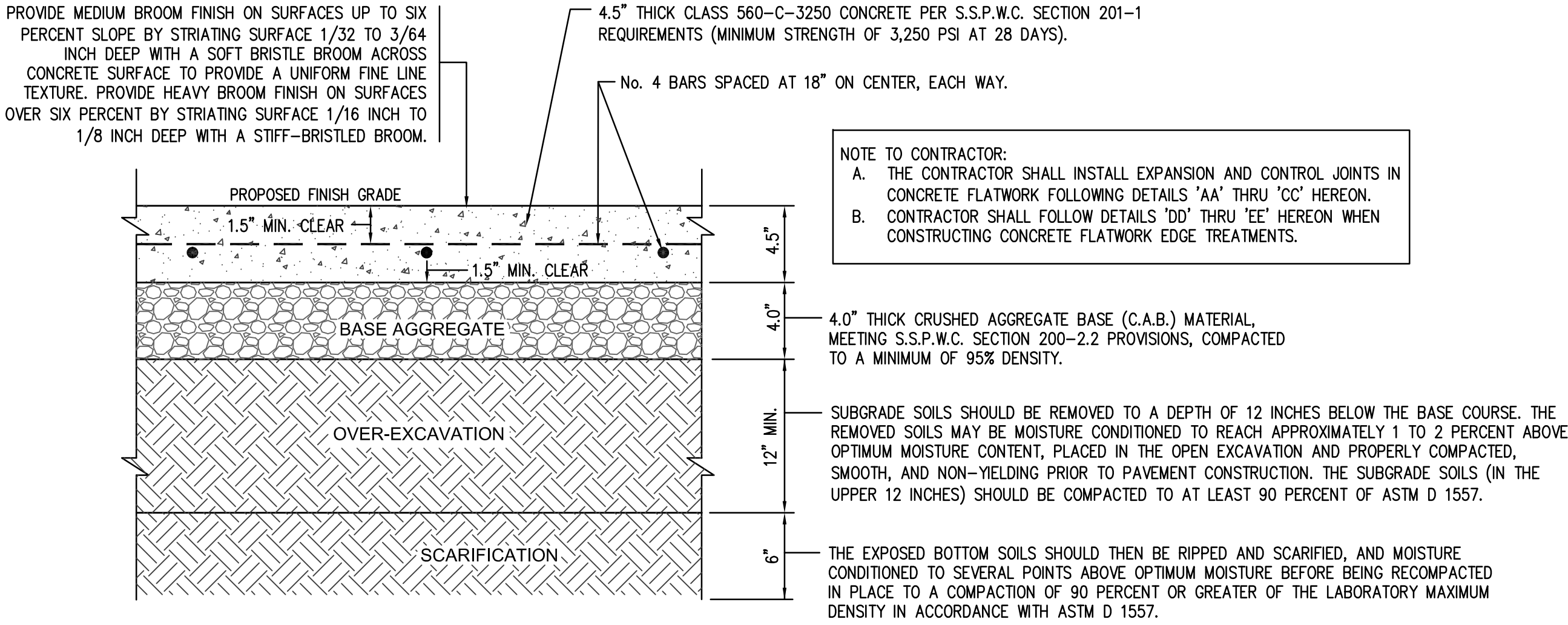
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GRADING PLAN

C2.00

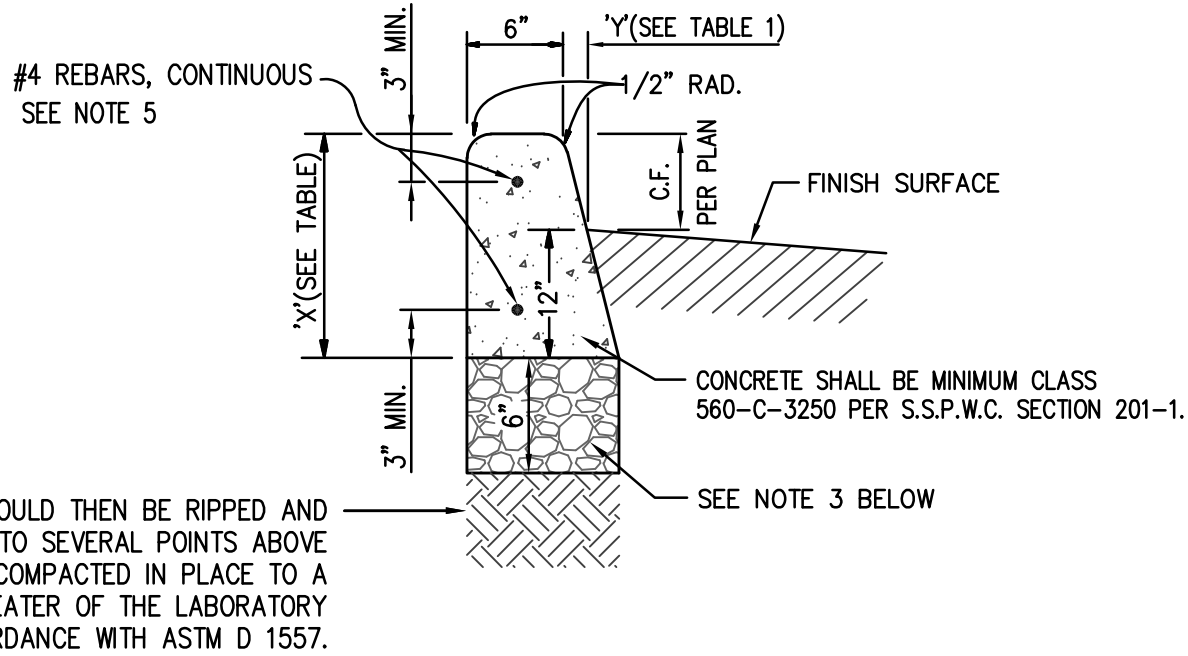


1 CONCRETE PAVEMENT DETAIL
NOT TO SCALE

FLOOD TEST NOTE:

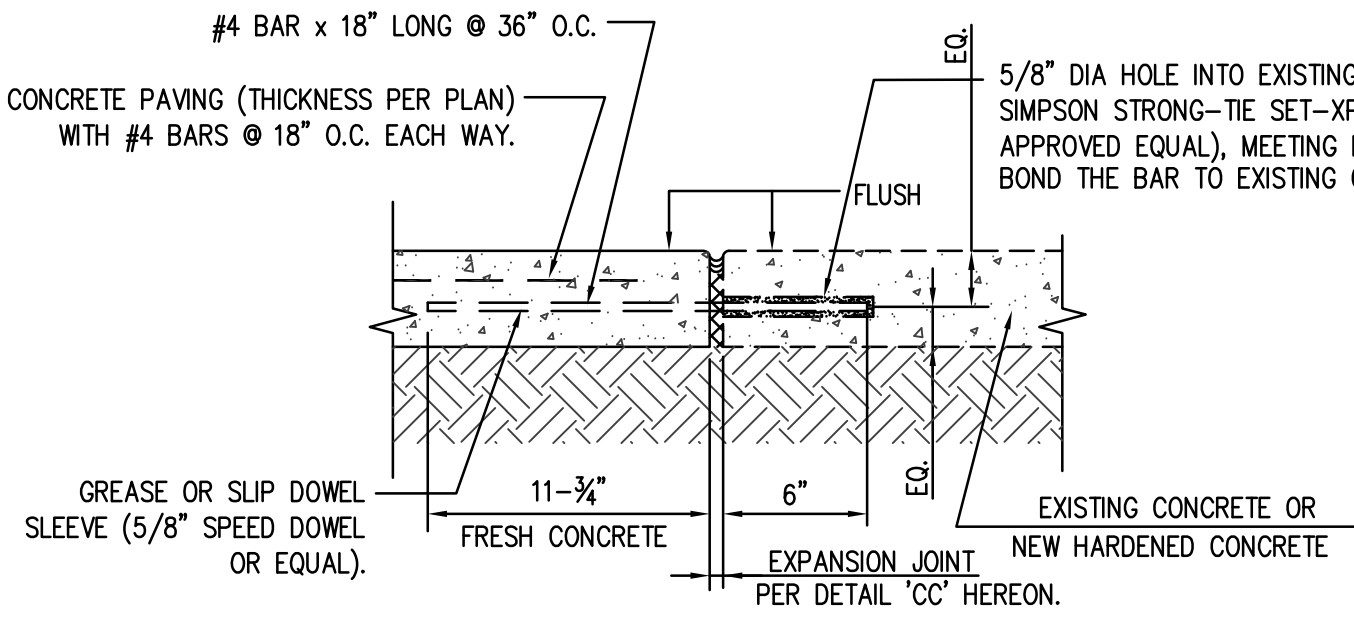
BEFORE ACCEPTANCE, ALL NEW CONCRETE PAVEMENT SHALL BE WATER TESTED TO ENSURE PROPER DRAINAGE AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL PROVIDE WATER FOR THIS PURPOSE. THE FLOODING SHALL BE DONE BY WATER TANK TRUCK. DEPRESSIONS WHERE THE WATER POUNDS TO A DEPTH OF MORE THAN 0.01 FOOT SHALL BE FILLED WITH TYPE E ASPHALT MIX OR THE SLOPE CORRECTED TO PROVIDE PROPER DRAINAGE. THE EDGES OF THE FILL SHALL BE FEATHERED AND SMOOTHED SO THAT THE JOINT BETWEEN THE FILL AND THE ORIGINAL SURFACE IS INVISIBLE. PRACTICAL FIELD MEASUREMENT: 0.01 FOOT = TWO QUARTERS STACKED. NO STANDING WATER SHALL REMAIN AFTER 60 MINUTES ON A 70 DEGREE F (OR WARMER) DAY.

CURB FACE	0"	2"	4"	5"	6"	8"
"X"	12"	14"	16"	17"	18"	20"
"Y"	0"	0.5"	1"	1.25"	1.5"	2"



3 CONCRETE CURB DETAIL
NOT TO SCALE

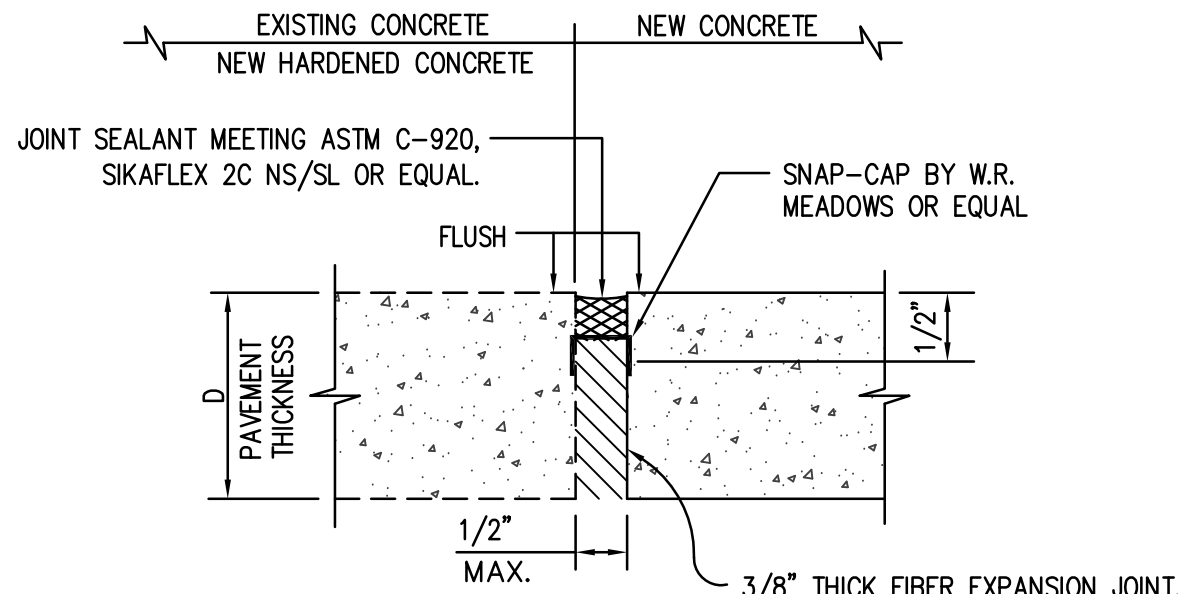
- CURB GENERAL NOTES:
- ALL EXPOSED EDGES SHALL HAVE A 1/2" RADIUS.
 - CONTROL JOINTS SHALL BE PLACED IN CURBING AT REGULAR INTERVALS OF 10'. EXPANSION JOINTS AT 30' INTERVALS, AND AT DRIVE APPROACHES, B.C.'S, E.C.'S, CROSS GUTTERS AND CATCH BASIN TRANSITIONS PER JOINT DETAILS HEREON.
 - A 6" THICK LAYER OF CRUSHED AGGREGATE BASE SHALL BE PLACED UNDER ALL CURB. MINIMUM COMPACTION OF 95% RELATIVE DENSITY UNLESS WAIVED BY CIVIL ENGINEER.
 - CONCRETE CURB SHALL BE MINIMUM CLASS 560-C-3250 PER S.S.P.W.C. SECTION 201-1.
 - PLACE NO. 4 REBARS 3" MINIMUM FROM TOP AND BOTTOM OF CURB.



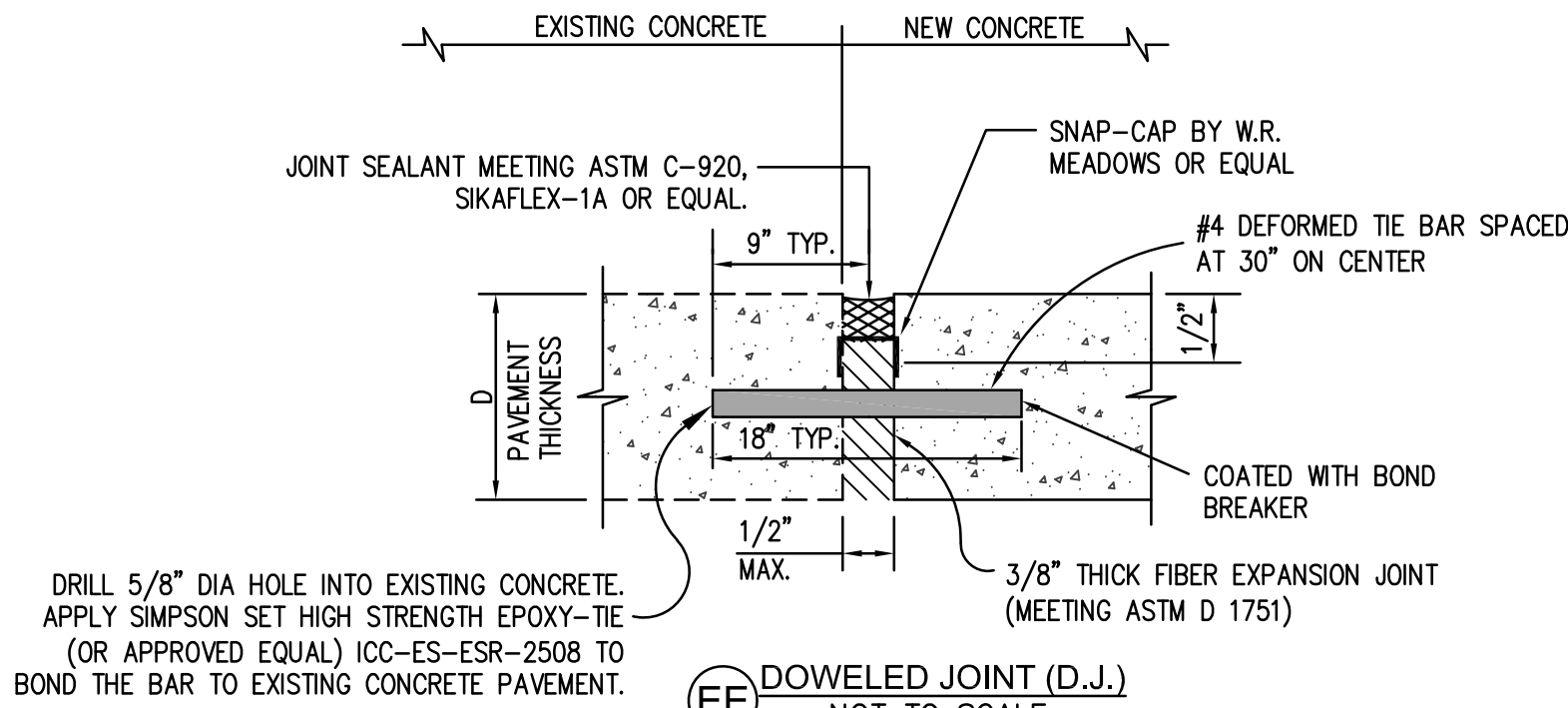
NOTE: 1. VERTICAL CHANGE IN ELEVATION ALONG ACCESSIBLE PATH OF TRAVEL CANNOT EXCEED 1/4" PER CBC 11B-303.2

2. LEVEL CHANGE BETWEEN 1/4"-1/2" MUST BE BEVELED AT 1:2 MAX PER CBC 11B-303.3

AA EXPANSION JOINT (E.J.) WITH REBAR
NOT TO SCALE



CC EXPANSION JOINT (E.J.)
NOT TO SCALE

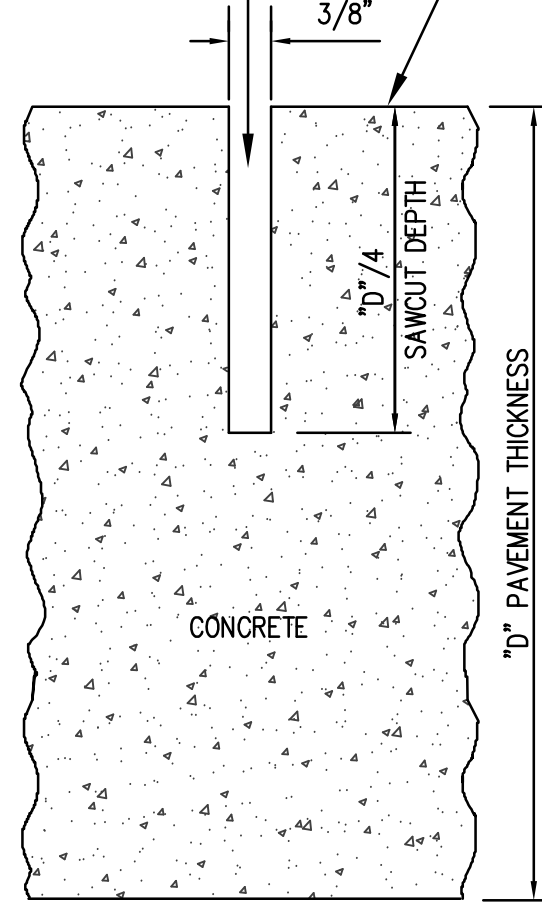


EE DOWELED JOINT (D.J.)
NOT TO SCALE

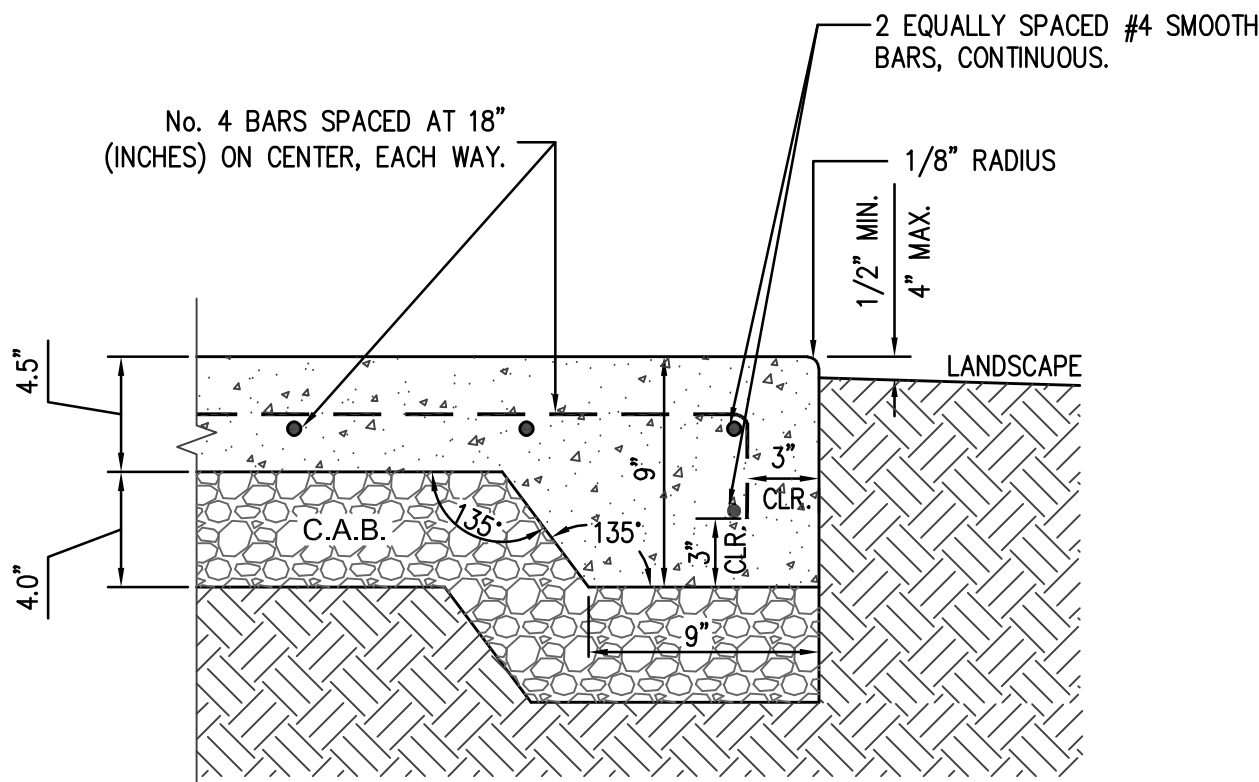
SPACING PER ARCHITECTURAL PLANS

SPACING PER ARCHITECTURAL PLANS

PAVEMENT SURFACE



BB CONTROL JOINT (C.J.)
NOT TO SCALE



DD EDGE OF CONCRETE SLAB DETAIL
WHERE CONCRETE MEETS SOFTSCAPE
NOT TO SCALE

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PBK

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ANAHEIM
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Anaheim, CA 92806
P 949-549-5000

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

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Westminster, CA 92683

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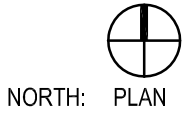
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KEY PLAN



NORTH: PLAN

Consultant



Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
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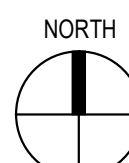
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DETAIL SHEET

PLANS PREPARED BY:

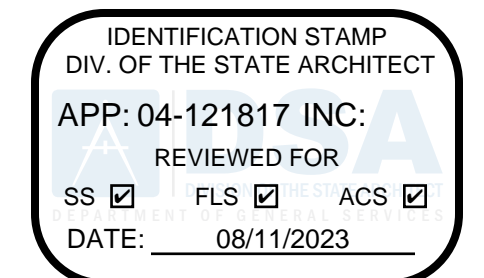
FPL FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
Phone: 949-252-1688

C3.00



NOTES: For a complete list of all applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code (CFC) Chapter 80. See California Building Code, Chapter 35, for State of California amendments to the NFPA Standards.

#	DESCRIPTION
02.01	(E) CONCRETE TO REMAIN
02.06	(E) ASPHALT TO REMAIN, PROTECT IN PLACE
02.63	(E) CURB RAMP TO REMAIN, SEE AF100879
02.84	(E) PAINTED STRIPING TO REMAIN
02.85	(E) BACKBOARD AND SUPPORT POSTS TO REMAIN
D1.05	REMOVE (E) PAINTED STRIPING AS INDICATED
D1.16	REMOVE (E) CONCRETE WHEEL STOP
D1.28	(E) ASPHALT AND PARKING STRIPING TO BE PREPARED FOR (N) ASPHALT SLURRY COAT
D1.29	(E) ACCESSIBLE PARKING SIGN TO BE REMOVED
D1.31	REMOVE (E) DOUBLE-LEAF ORNAMENTAL METAL GATES & PREPARE FOR (N) DOUBLE-LEAF ORNAMENTAL METAL GATES W/ PANIC HARDWARE PER ACCESSIBILITY SITE PLAN
D1.39	REMOVE (E) BACKBOARD AND SUPPORT POSTS, DISPOSE
D3.79	REMOVE (E) DRINKING FOUNTAINS, PREPARE FOR NEW DRINKING FOUNTAIN
D4.01	GRIND (E) CONCRETE FOR NEW FLUSH TRANSITION CONCRETE DOMATE MAT.



SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

7200 Trask Ave
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO.: 04-121817 DSA FILE NO.: 30-43



resultant

[illegible]

SA SUBMITTAL

SITE DEMOLITION PLAN

D0.1

0' 1'

SITE DEMOLITION KEYED NOTES

#	DESCRIPTION
02.03	(E) 6'-0" GALV. STEEL CHAIN LINK FENCE TO REMAIN
02.80	(E) CHAINLINK GATE TO REMAIN
D1.02	REMOVE (E) 6'-0" GALV. STEEL CHAIN LINK GATE AND REPLACE WITH (N) CHAINLINK GATE W/ PANIC HARDWARE PER ENLARGED SITE PLAN 18/02.1
D1.33	REMOVE (E) CONCRETE PAVING AS INDICATED
D1.36	REMOVE PORTION OF (E) CHAINLINK FENCE AS INDICATED
D1.37	REMOVE PORTION OF (E) TURF AS INDICATED, PREPARE FOR NEW CONCRETE PAVING PER CIVIL
D1.38	REMOVE (E) CHAINLINK GATE AND DISPOSE

SITE DEMOLITION LEGEND

- PROPERTY LINE
- AREA OF (E) TURF TO BE PREPARED FOR (N) CONCRETE PER CIVIL
- AREA OF (E) CONCRETE TO BE REMOVED, PREPARE FOR (N) CONCRETE PER CIVIL

NOTES: For a complete list of all applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code (CFC) Chapter 80. See California Building Code, Chapter 35, for State of California amendments to the NFPA Standards.

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AD K1 MP
A
B
C
KEY PLAN
NORTH: PLAN

Consultant

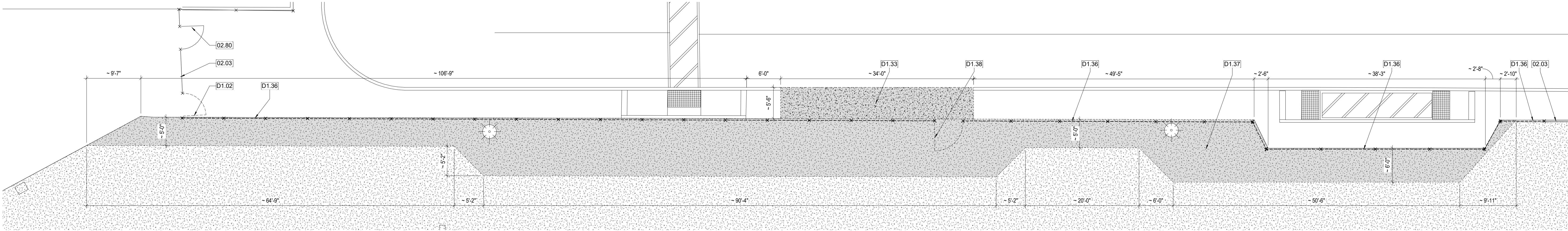
Architect
LICENSED ARCHITECT
Tong Yoo
No. C-31162
Exp. 10-31-2023
STATE OF CALIFORNIA

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WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-29-2022	220308	
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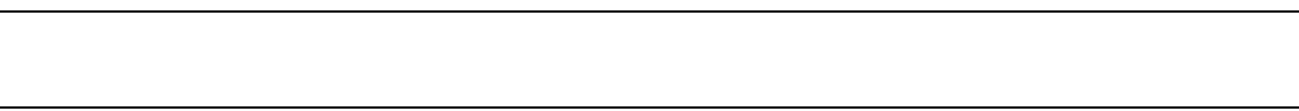
SITE DEMOLITION
PLANS

D0.2




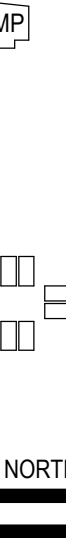

6 DROP-OFF ZONES - ENLARGED DEMOLITION PLAN

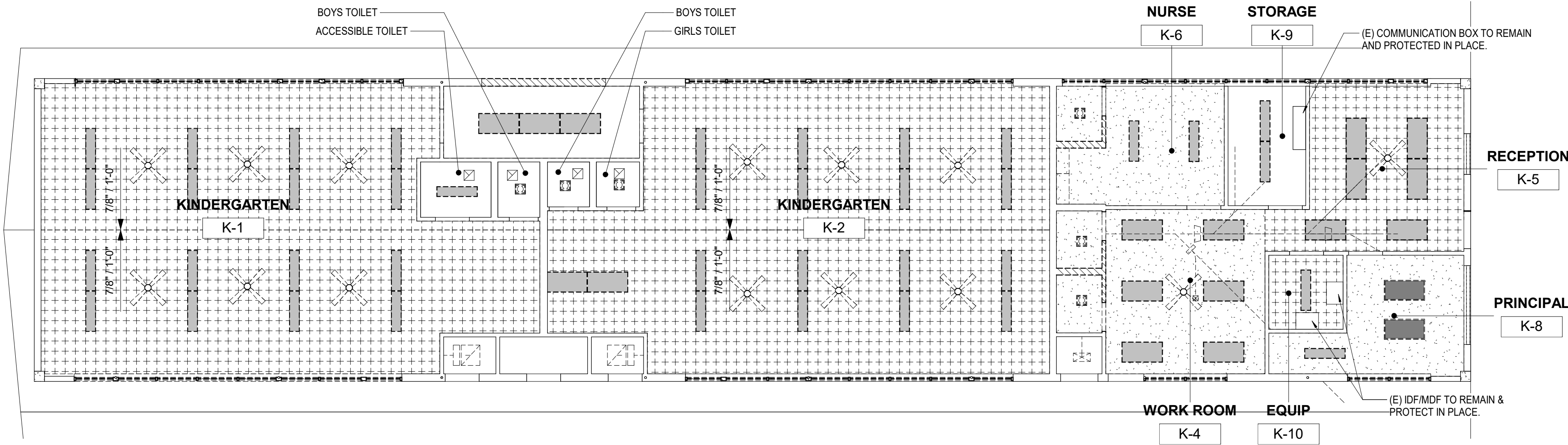
1/8" = 1'-0"



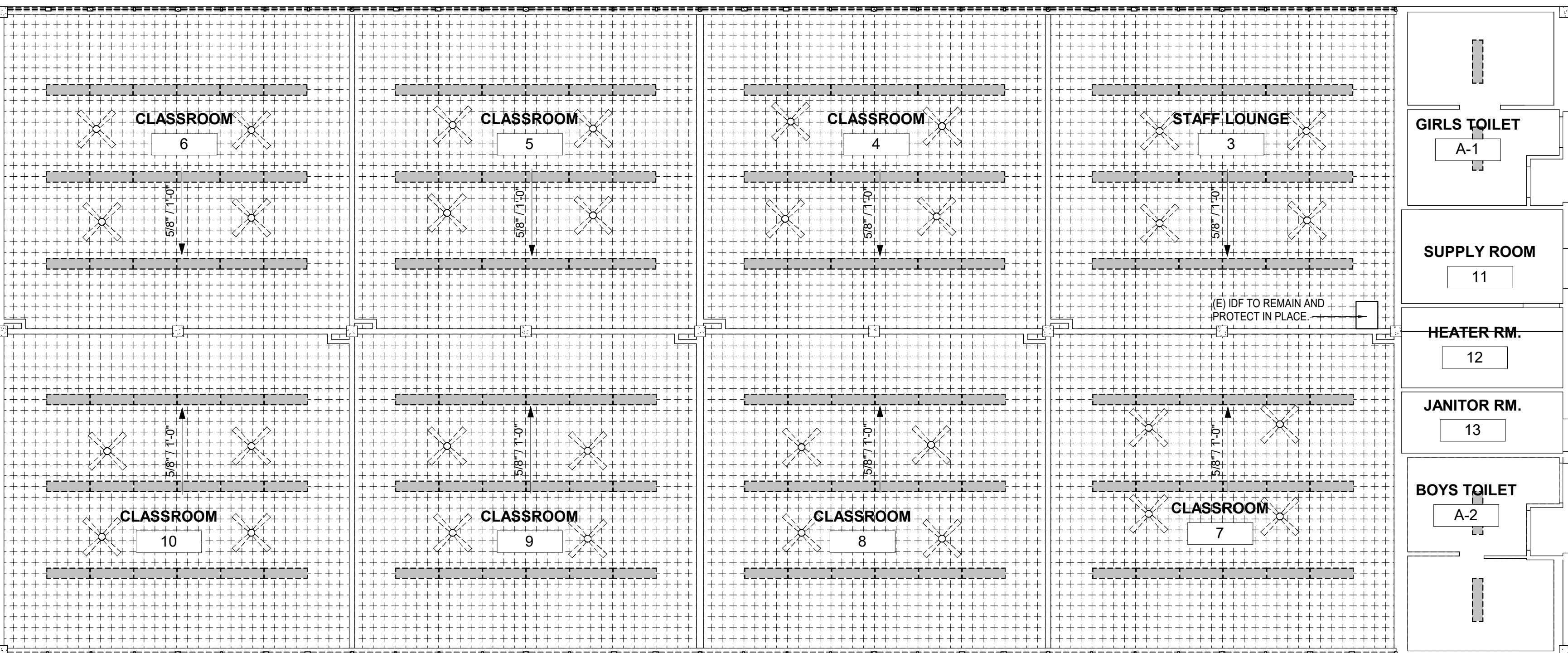
GENERAL DEMOLITION NOTES

- DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASES OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
- CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY FOR RESOLUTION OF ANY DISCREPANCIES.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING, PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL OBTAIN ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
- AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
- CONTRACTOR SHALL NOT SCALE DRAWINGS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING BUILDINGS AND REMAINING BUILDING ELEMENTS TO BE LEFT IN PLACE.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- CONTRACTOR IS TO REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
- CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- CONTRACTOR'S RESPONSIBILITY IS TO PROTECT EXISTING STRUCTURE SHALL BE EQUIVALENT TO REPAIR OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AND ADJACENT TRAFFIC FROM EXISTING STRUCTURES HAVING JURISDICTION.
- DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING OR ADJACENT TRAFFIC.
- WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR THE EXACT LOCATION OF ALL UTILITIES. CONTRACTOR SHALL IDENTIFY ALL UTILITIES IN AGREEMENT OF ANY DEMOLITION WORK. CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND GROUNDED. CONTRACTOR SHALL IDENTIFY THE REMAINING UTILITIES AND DETERMINE WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE THE REMAINING PORTION OF THE BUILDING REMAINS OPERATIONAL.
- CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
- CONTRACTOR SHALL IDENTIFY THE EXACT LOCATION OF ALL ASSOCIATED EXISTING VEGETATION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR REMOVAL OF BARK, MECHANICAL DAMAGE TO THE REMAINING VEGETATION, OR EXCAVATED MATERIAL WITHIN DRIP LINES.
- CONTRACTOR SHALL REGRADE AND HYDROLOGICAL AREAS AFFECTED BY DEMOLITION.
- CONTRACTOR SHALL REMOVE ALL ITEMS REMOVED AS PART OF THE SCOPE-OF-WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
- NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DESIGNATED FIRE-RATED, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED AND CLEAN CONDITION.
- ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH THE OWNER AS REQUIRED.
- REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY EXISTING CONSTRUCTION BE REMOVED TO THE EXTENT OF THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
- MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATED PENETRATIONS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED INTERFERENCE POINTING CONDITIONS.
- WHEN UNINTERRUPTED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
- REMOVE EXISTING ROOF AND FLOOR FINISHES TO BE INSTALLED BY THE OWNER AND NEW TECHNOLOGY WORK. SPlice NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE TO PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE SLAB AND EXISTING CONCRETE SLAB. COORDINATE WITH THE ARCHITECT FOR THE MINIMUM COVERAGE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
- EXISTING WALLS TO REMAIN TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
- ~~NEW WALLING TO BE CUT AT EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOT REMOVE EXISTING WALLS TO BE PATCHED AND FINISHED CONSTRUCTION ABOVE AS INDICATED. NOT USED OR NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION TO BE STRUCTURAL UNLESS OTHERWISE COORDINATED LOCATIONS OF ALL NEW WALLS TO BE PATCHED AND FINISHED SMOOTH.~~
- WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY COVERED, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT WALLS AND FINISHES.
- WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEET SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEET DRAWINGS.
- REFER TO MEET DRAWINGS FOR DEMOLITION OF MEET SYSTEMS. IDENTIFY WORK REQUIRED BY THE MEET SYSTEMS WHERE THE MEET SYSTEMS ARE TO BE REMOVED OR RELOCATED. REMOVE ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
- PANEL FLOORS, WALLS CEILING WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
- WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FINISHES.
- ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

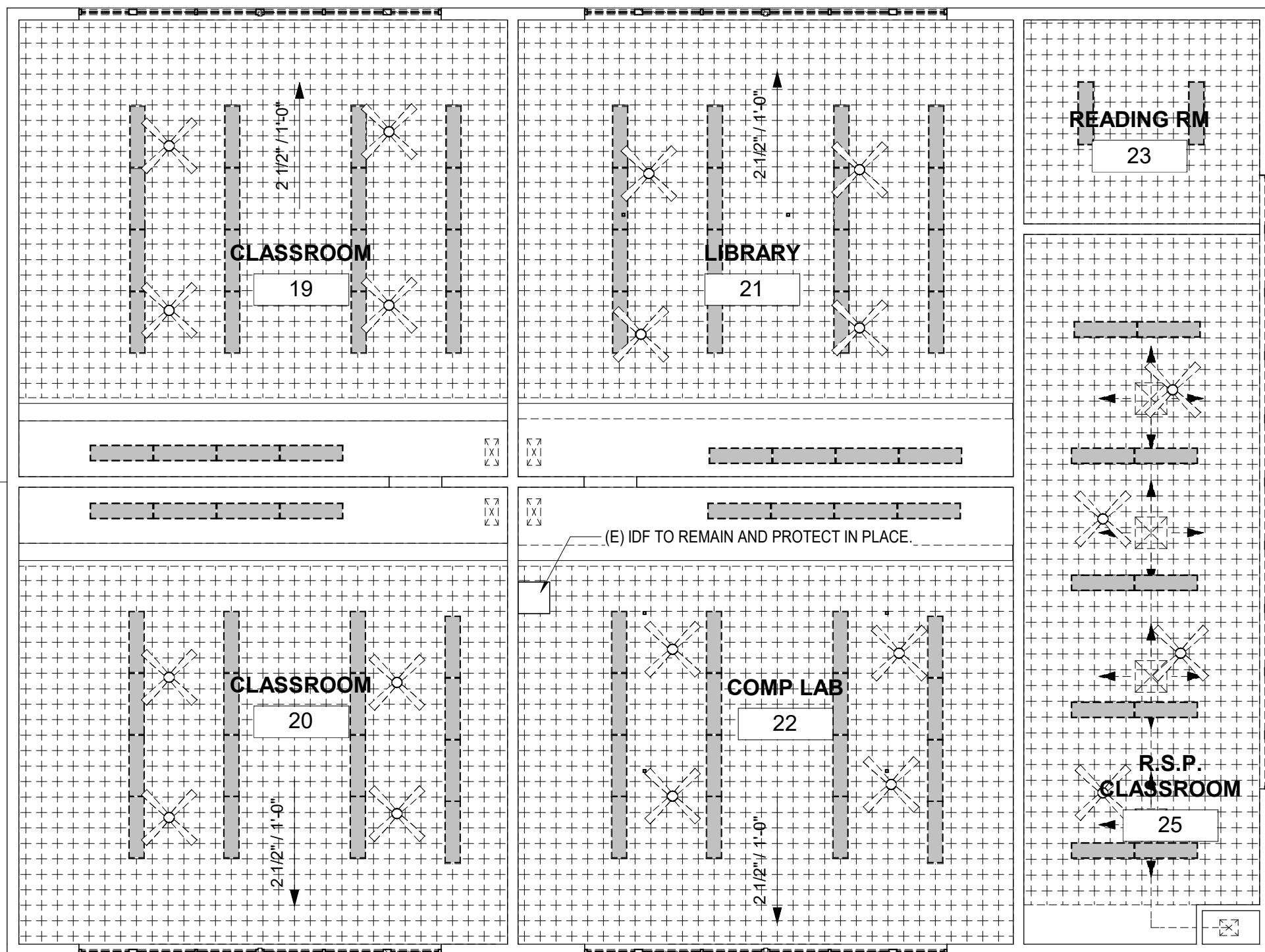
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DATE: 08/11/2023		
PBK		
ARCHITECT	PBK Architects, Inc. <small>PBK-Cert</small>	
ANAHEIM 2400 E. Katella Ave., Suite 950 Anaheim, CA 92806 P 949-546-9000		
<div style="float: left; width: 30%; transform: rotate(-90deg); transform-origin: left top; white-space: nowrap; font-weight: bold; font-size: 18pt;">SCHMITT E.S. HVAC UPGRADE & MODERNIZATION</div> <div style="clear: both;"></div> <div style="position: absolute; right: 50px; bottom: 50px; text-align: right; font-size: 12pt;">PROJECT ADDRESS: 7200 Trask Ave Westminster, CA 92683 DSA SUBMITTAL DSA APPL NO.: 04-121817 DSA FILE NO.: 30-43</div>		
 WESTMINSTER SCHOOL DISTRICT		
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Consultant		
Architect		
 Yong Yoo No. C-31162 Exp. 12-31-2020 STATE OF CALIFORNIA		
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DSA SUBMITTAL		
DEMO FLOOR PLANS ADMIN/KINDER, BLDG A,B&C		



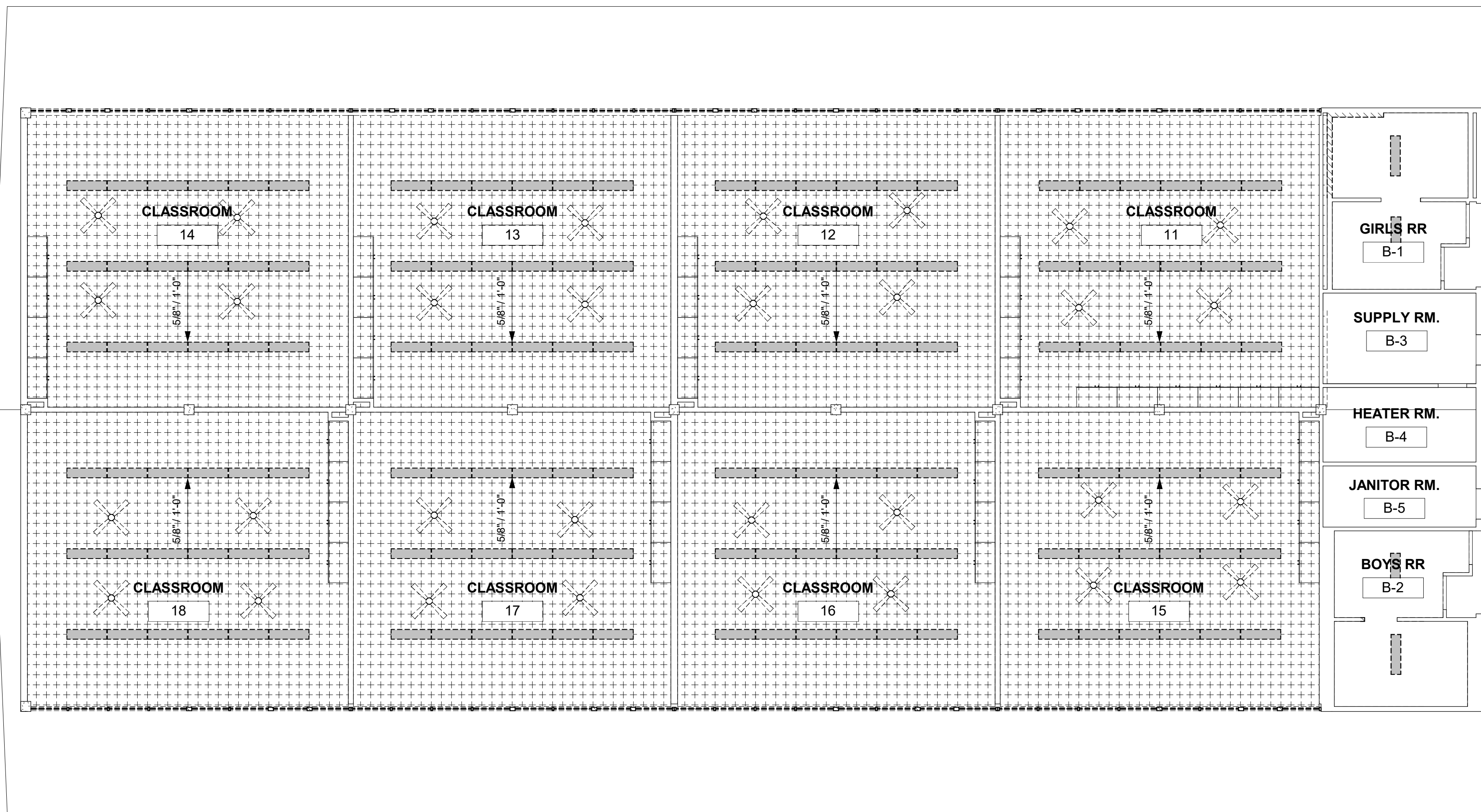
30 DEMO RCP - ADMIN KINDERGARTEN
1/8" = 1'-0"



18 DEMO RCP-BLDG A
1/8" = 1'-0"



6 DEMO RCP - BLDG C
1/8" = 1'-0"



4 DEMO RCP - BLDG B
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

- DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
- CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING. PRIOR TO COMMENCING WITH WORK.
- CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
- AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
- CONTRACTOR SHALL NOT SCALE DRAWINGS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
- CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
- CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MOOFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
- ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDINGS. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPILT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
- CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
- PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
- CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
- OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
- NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
- ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
- REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
- MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
- WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
- REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
- SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVICES FOR ALL SCOPE OF WORK PERTAINING TO NEW MECHANICAL, WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR BARRIER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
- EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH. THEN CEILING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS WHERE THE HEIGHT AND WIDTH INDICATED. NEW UNTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED. (NOT USED UNLESS OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION). MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS FOR ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
- WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
- WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
- REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
- PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
- WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
- ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

BUILDING MPE NOTES

- EXISTING GAS AND WATER PIPES: REMOVE AND REPLACE ANY RUSTED OR DETERIORATED PIPES, VALVES AND YARD BOXES TO REMAIN.
- RELOCATE / RE-ROUTE ANY ELECTRICAL CONDUITS AND LOW VOLTAGE RACEWAYS AND WIRING ABOVE & BELOW CEILING TO ACCOMMODATE NEW WORK.
- RELOCATE / RE-ROUTE ANY VENT PIPES INTERFERING WITH NEW WORK.
- REMOVE AND DISPOSE OLD CLOCK AND SPEAKERS NO LONGER IN USE.
- REMOVE AND DISPOSE ELECTRICAL CABLES AND DEVICES NOT IN USE.
- REMOVE AND DISPOSE FAU HEATING UNITS IN EACH ROOM AND ALL ASSOCIATED DUCTWORK, REGISTERS, CONDUITS AND WIRING.
- REMOVE PROJECTORS IN WORKROOM AND LIBRARY ROOMS RETURN TO DISTRICT.

DEMOLITION RCP LEGEND

- EXISTING CEILING TO REMAIN
 - EXISTING PLASTER (GYP.BD. CEILING & SUBSTRATE TO BE REMOVED AND DISPOSED).
 - EXISTING NON-BEARING WALL TO BE REMOVED
 - EXISTING 12"x12" GLUE UP / STAPLED ACOUSTIC TILE AND (E) SUBSTRATES TO BE REMOVED AND DISPOSED.
 - REMOVE AND DISPOSE (E) LIGHT FIXTURES AND WIRING. SEE ELECTRICAL DWGS.
 - MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS (REMOVE WHEN SHOWN DASHED)
 - (E) CEILING FAN AND ACCESSORIES TO BE REMOVED BY G.C. AND RETURNED TO THE DISTRICT.
 - (E) ACCESS PANEL TO BE REMOVED & DISPOSED, WHERE OCCURS.
- NOTE:
1. REMOVE & DISPOSE OF EXISTING ABOVE CEILING ROOF INSULATION, WHERE OCCURS.

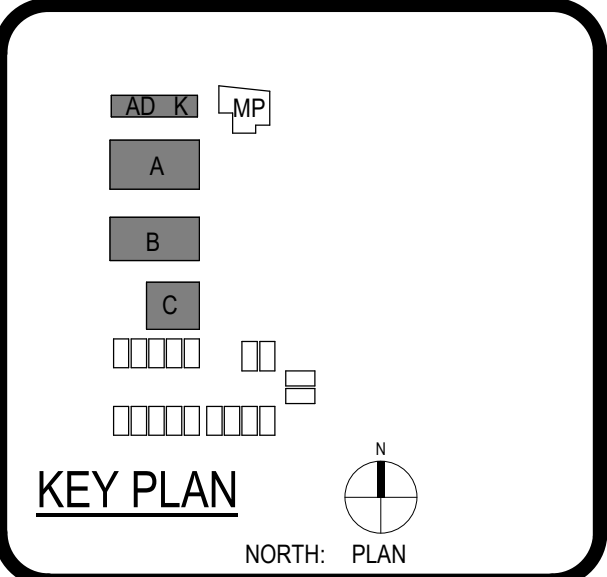
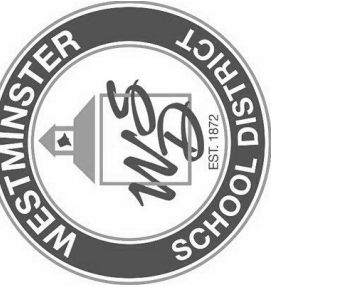
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DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PRK

ARCHITECT PRK Architects, Inc.
ANAHEIM
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. 30-43



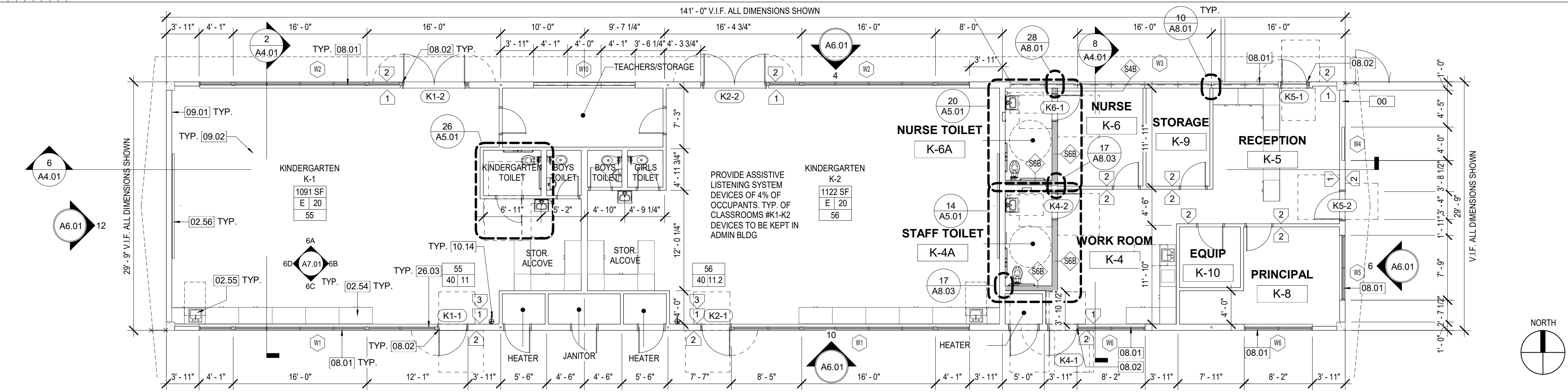
Consultant

Architect
LICENSED ARCHITECT
Long Yong
No. C-31162
Exp. 10-31-2023
STATE OF CALIFORNIA

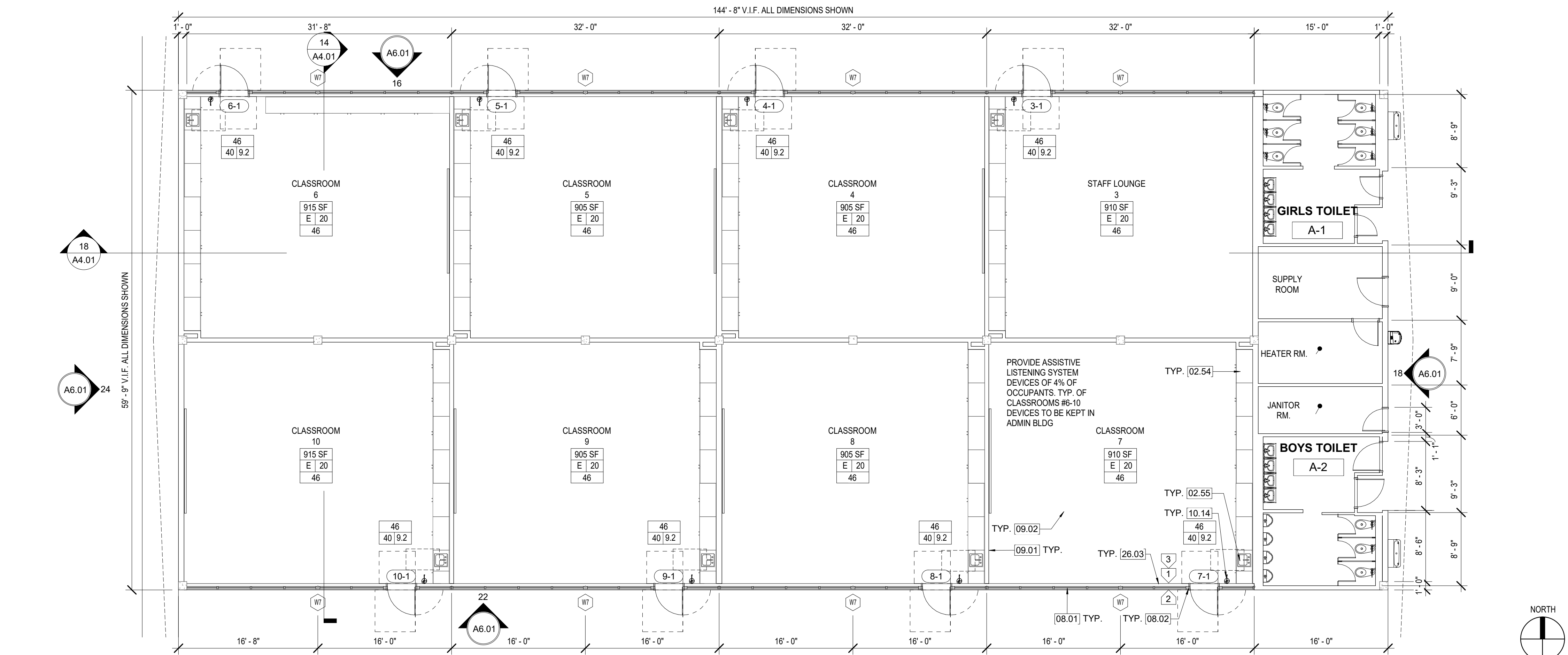
CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE		PROJECT NUMBER
12-29-2022		220308
REVISIONS		
No.	Description	Date

DSA SUBMITTAL
**DEMO REFLECTED
CEILING PLAN
ADMIN/KINDER, BLDG
A,B&C**

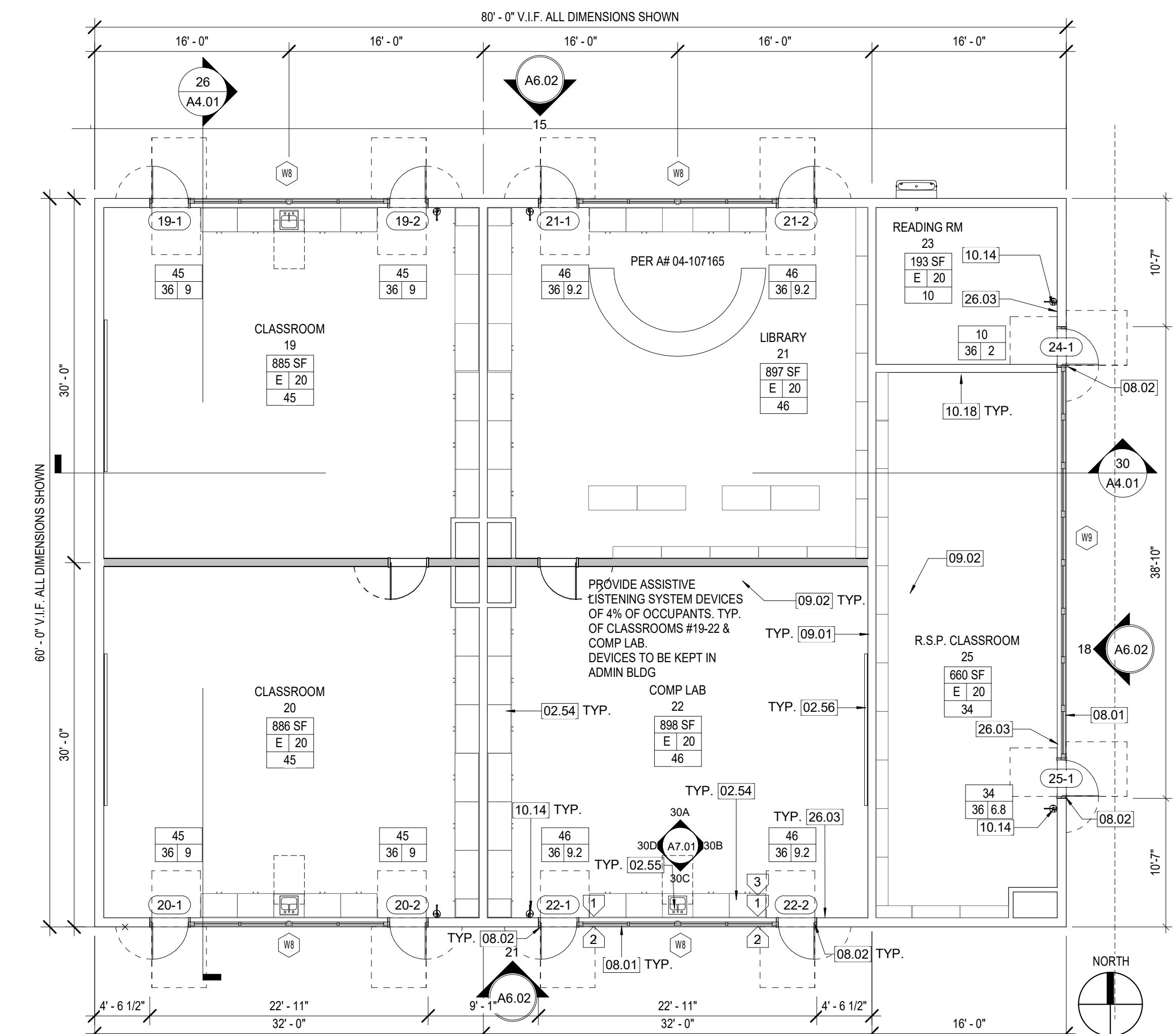
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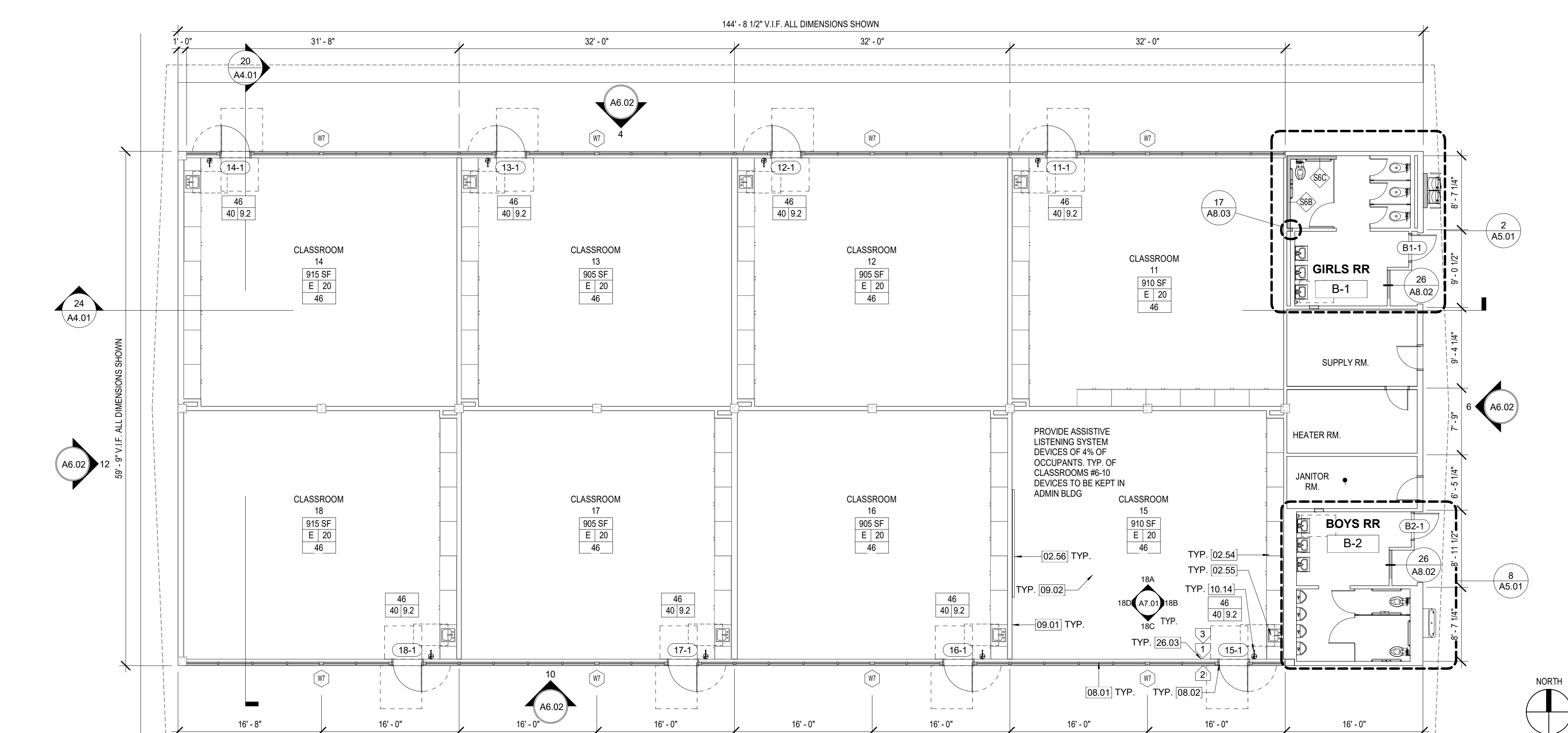
29 FLOOR PLAN - ADMIN / KINDERGARTEN
1/8" = 1'-0"



17 FLOOR PLAN BUILDING A - CLASSROOM
1/8" = 1'-0"



05 FLOOR PLAN - BUILDING C - LIBRARY / CLASSROOM
1/8" = 1'-0"



04 FLOOR PLAN - BUILDING B - CLASSROOM
1/8" = 1'-0"

CONSTRUCTION KEYED NOTES

- 00 (E) CASEWORK TO REMAIN, RE-PAINT & PROTECT IN PLACE. TO RE-PAINT (EXCEPT PLAINSTONE COUNTERTOPS)
- 02.54 (E) ACCESSIBLE SINK TO REMAIN. PROTECT IN PLACE
- 02.56 (E) MARKER/TACKBOARD TO BE REMOVED & REPLACED WITH NEW PER DETAIL 56/A8.02
- 08.01 (N) ALUMINUM FRAME & GLAZING WINDOW SYSTEM SEE WINDOWS FRAMING ELEVATION A8.01. PER ALUMINUM-FRAMED STOREFRONT & ALUMINUM WINDOWS & GLAZING SPEC SECTION 084113, ALUMINUM WINDOW SPECS SECTION 085100 & GLAZING SPEC SECTION 088000
- 08.02 (N) INTEGRAL ALUMINUM FRAME DOOR SYSTEM SEE FRAMING ELEVATION A8.01 & DOOR SCHEDULE. PER ALUMINUM-FRAMED STOREFRONT SPEC SECTION 084113, & DOOR SPEC SECTION IN DIV 5
- 09.01 (N) INTERIOR PAINT FINISH. SEE FINISH SCHEDULE
- 09.02 (N) FLOOR FINISH AND BASEBOARD, SEE FINISH SCHEDULE
- 10.14 (N) FIRE EXTINGUISHER, SURFACE MOUNTED TO (E) WALL. SEE DETAIL 18/A8.02
- 10.18 (N) TACKABLE SURFACE PER DETAIL 6/A8.02
- 26.03 NEW EXIT SIGN, PER ELEC DWGS. SEE DETAIL 16/A8.02

EXTERIOR & INTERIOR PAINT SCOPE OF WORK

1. CONTRACTOR SHALL PAINT ALL EXTERIOR AND INTERIOR SURFACES OF ALL BUILDINGS INCLUDING PORTABLES PER SPECIFICATION. THIS WORK INCLUDES ALL FLASHING, FASCIA, PLASTER, LOUVER, DRYWALL, DOORS AND FRAMES WITH THE EXCEPTION OF BRICK SURFACES. MINIMUM 2 COLORS TO BE SELECTED BY THE ARCHITECTS.
2. CONTRACTOR SHALL PAINT ALL COLUMN AND BEAMS OF SOLAR SHADE STRUCTURE PER SPECIFICATION, EXCEPT GALVANIZED AND SOLAR PANEL SURFACES. MINIMUM OF 2 COLORS TO BE SELECTED BY ARCHITECT.
3. GENERAL CONTRACTOR TO NOTIFY AND DOCUMENT ANY AREAS WITH DRYROT AND/OR TERMITE DAMAGE IN WRITTEN FORMAT PRIOR TO BID.

SIGNAGE LEGEND

ALL SIGNAGE IS (E) TO REMAIN, WHERE (E) SIGNAGE IS MISSING OR DAMAGED PROVIDE NEW SIGNAGE TO MATCH EXISTING PER DETAIL REFERENCES BELOW.

SIGNAGE TAG (E)

1. TACTILE EXIT SIGNAGE, SEE DETAIL 16 / A8.02 AND/OR SEE ELECTRICAL PLANS FOR ILLUMINATED EXIT REQUIREMENTS.
2. ROOM IDENTIFICATION SIGNAGE, SEE DETAIL 19 / A8.02 (VERIFY ROOM NAME & NUMBER w/ OWNER). WHERE TWO ROOMS ADJOIN ONE ANOTHER, PROVIDE SIGNAGE ON EACH SIDE OF THE WALL, TYP. ALL ROOMS
3. ASSISTIVE LISTENING SIGNAGE, SEE DETAIL 23 / A8.02

REMODEL PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW NON-BEARING WALL TO BE PROVIDED, AND SEE WALL PARTITIONS TAG FOR TOP & BOTTOM CONNECTION
- (X) (N) DOOR MARK
- (N) WINDOW LOCATION (N) WINDOW NUMBER REFER TO A8.10 FOR WINDOW FRAMES AND GLAZING TYPES
- (N) DOOR TO BE PROVIDED. REFER TO A8.01 FOR DOOR SCHEDULE AND TYPES
- (N) WINDOW (SEE WINDOW FRAMING ELEVATION ON SHEET A8.01)
- WALL PARTITIONS TAG
- LETTER INDICATES PARTITION TYPE, REF. DETAIL 1 A8.02 2 A8.02 3 A8.02
- # INDICATES CORE WIDTH
- LETTER INDICATES CORE TYPE (S=STUD)
- CLASSROOM 400
- ROOM NAME
- ROOM NUMBER
- ROOM AREA (SQ. FT.)
- OCCUPANT LOAD FACTOR
- ROOM OCCUPANT
- OCCUPANCY TYPE
- COMBINED EXIT LOAD
- REQUIRED CLEAR EXIT WIDTH (IN INCHES)
- PROVIDED CLEAR EXIT WIDTH (IN INCHES)
- NOTE: 1. ALL EXTERIOR CLASSROOM/ADMIN WINDOW FRAMES AND GLAZING TO BE REPLACED. PATCH AND REPAIR WALLS, AS NEEDED, FOLLOWING WINDOW INSTALLATION.
2. FIELD VERIFY ALL DIMENSIONS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PRBK

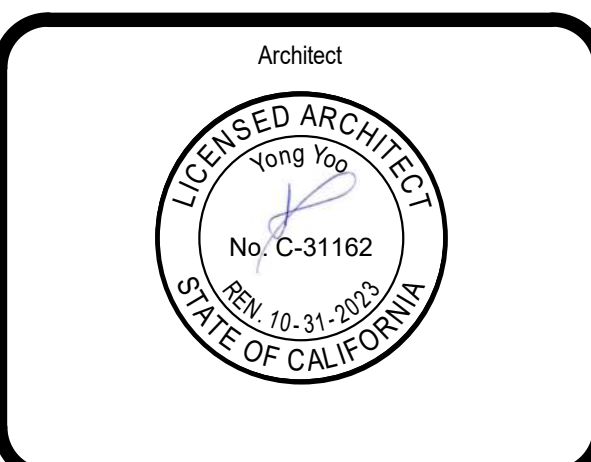
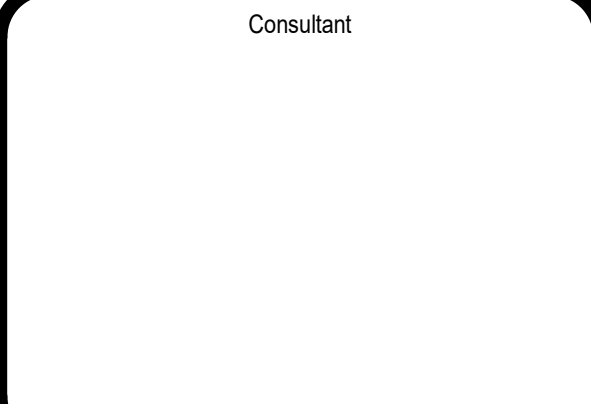
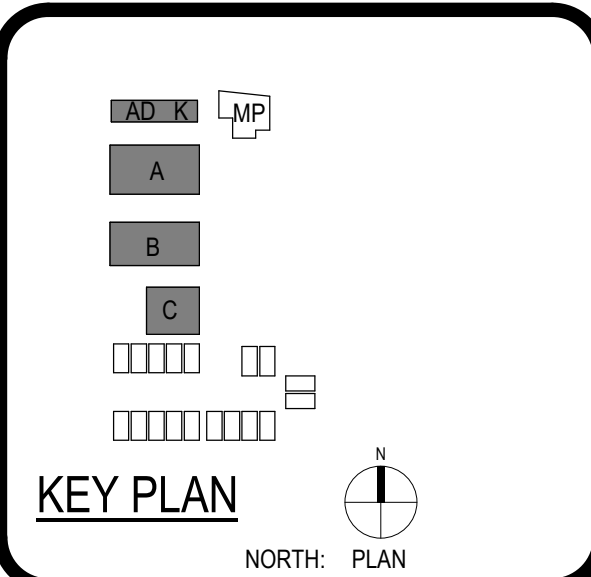
ARCHITECT PRBK Architects, Inc.
2400 E. Katella Ave., Suite 950
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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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DSA SUBMITTAL

DSA APPL. NO. 04-121817 DSA FILE NO. 30-43

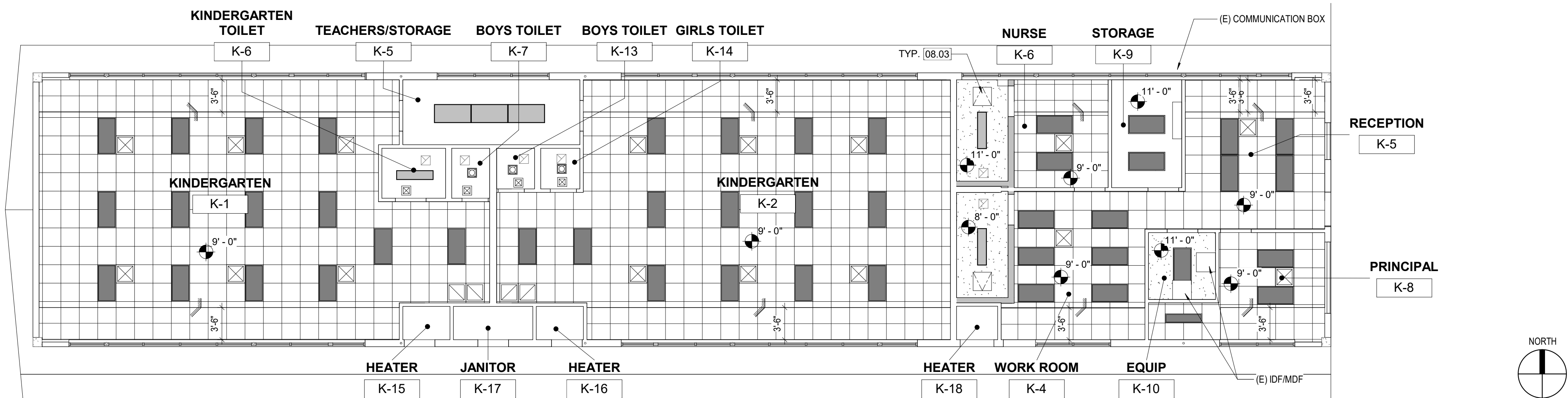


REVISIONS		
No.	Description	Date

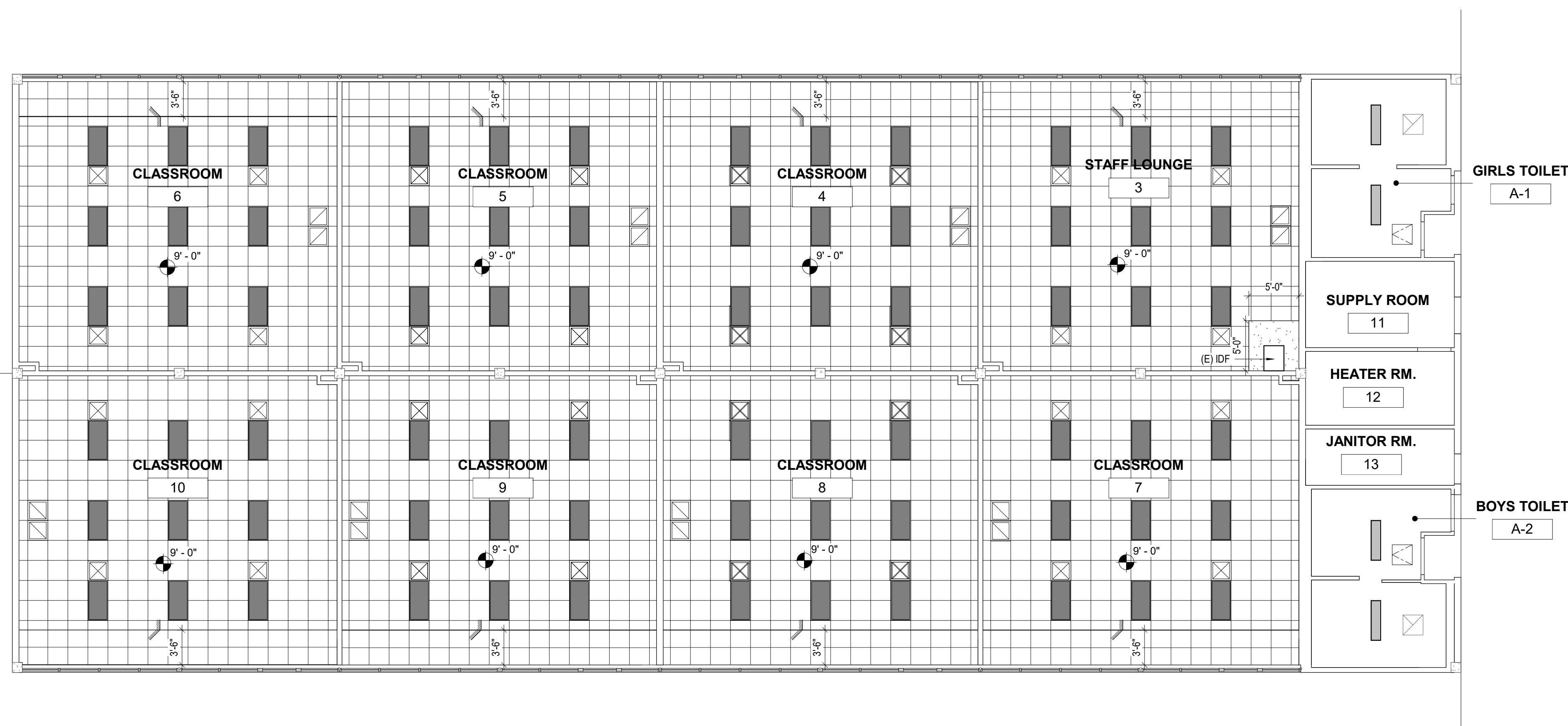
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FLOOR PLANS
ADMIN/KINDER, BLDG
A,B&C

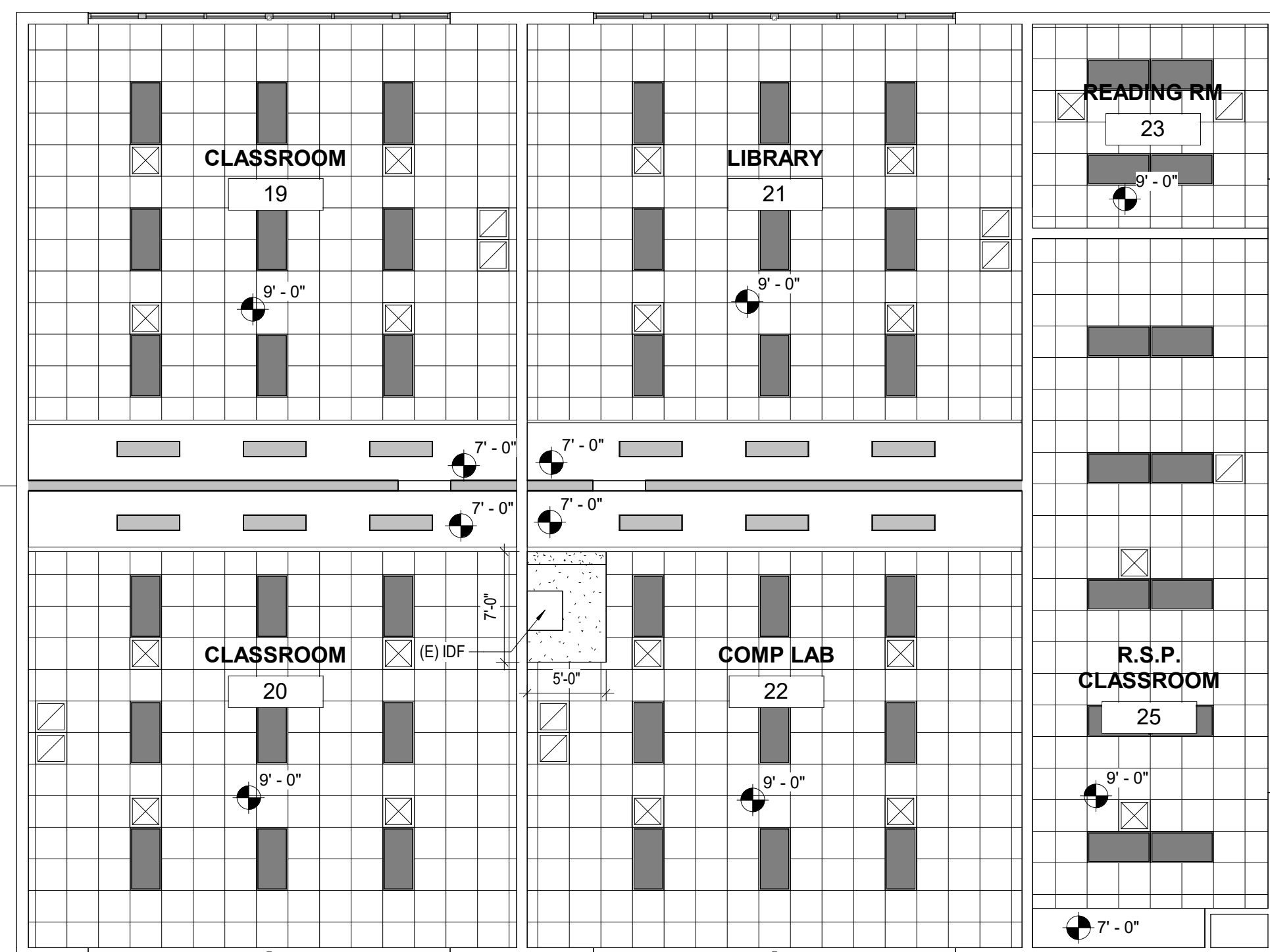
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29	RCP - ADMIN KINDERGARTEN 1/8" = 1'-0"
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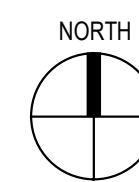
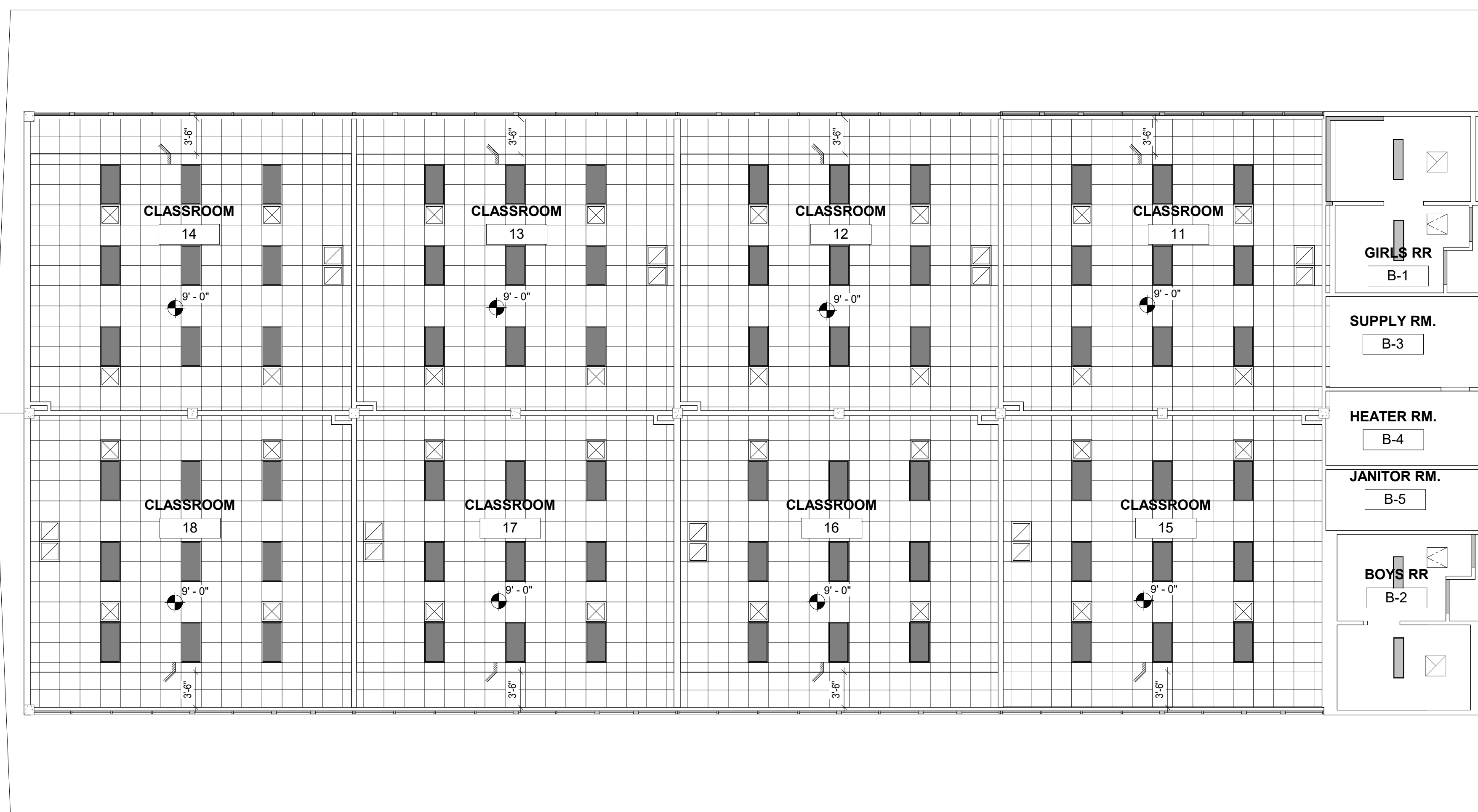
17	RCP-BLDG A 1/8" = 1'-0"
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06	RCP - BLDG C 1/8" = 1'-0"
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4	RCP - BLDG B 1/8" = 1'-0"
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-CONSTRUCTION KEYED NOTES

#	Description
08.03	(N) CEILING ACCESS PANEL, MIN. 22"X30" ROUGH FRAME OPENING, AS REQUIRED PER CODE, TO ACCESS HEAT DETECTOR AND RELATED MECH/ELEC SYSTEMS. MATCH CEILING FINISH

REFLECTED CEILING PLAN LEGEND

EXISTING PLASTER / GYP. BD. CEILING. RE-PAINT TO MATCH EXISTING.

NEW GYPSUM BOARD CEILING ATTACHED TO (E) CEILING JOIST.
SEE DETAIL. 5
A8.03

NEW 24" x 24" SUSPENDED ACOUSTIC CEILING TILE. SEE DETAIL. 7
A8.03

NEW LIGHT FIXTURE(S). SEE ELECTRICAL DRAWINGS.

MECHANICAL GRILLES. REFER TO MECHANICAL DRAWINGS AND STRUCTURAL DETAIL FOR HUNG UNITS.

10
M6.01 11
M6.01 19
M6.01 4
S03

ACCESS PANEL. SEE DETAIL. 4
A8.03

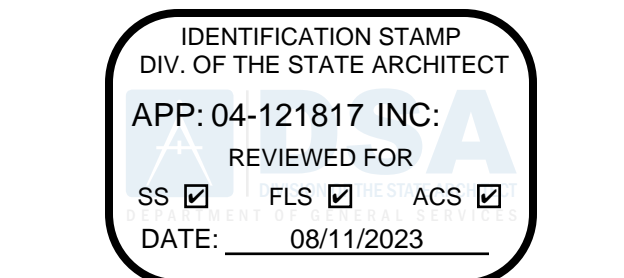
CEILING SLOPE TRANSITION.

CEILING HEIGHT

NOTE:
ALL (E) BLDGS ARE NON-SPRINKLERED

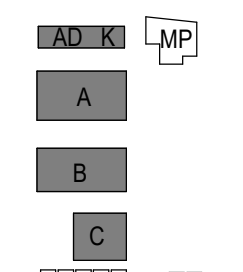
GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TYPES AND RATES.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT CODES FOR ALL MOUNTED AND WALL MOUNTED FIXTURES CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. ALL LIGHTING SHALL BE DESIGNED TO MEET ALL CODES AND STANDARDS.
6. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TESTED OR OTHERWISE FIRE RATED TO MEET ALL CODES AND STANDARDS.
7. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PARCH TO NOTATE ALL CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
9. EXISTING WALL AND CEILING TO REMAIN SHALL BE REFINISHED.
10. PROVIDE NEW CEILING ACCESS PANEL WHERE REQUIRED PER CODE.



SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

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KEY PLAN

NORTH: PLAN

Consul

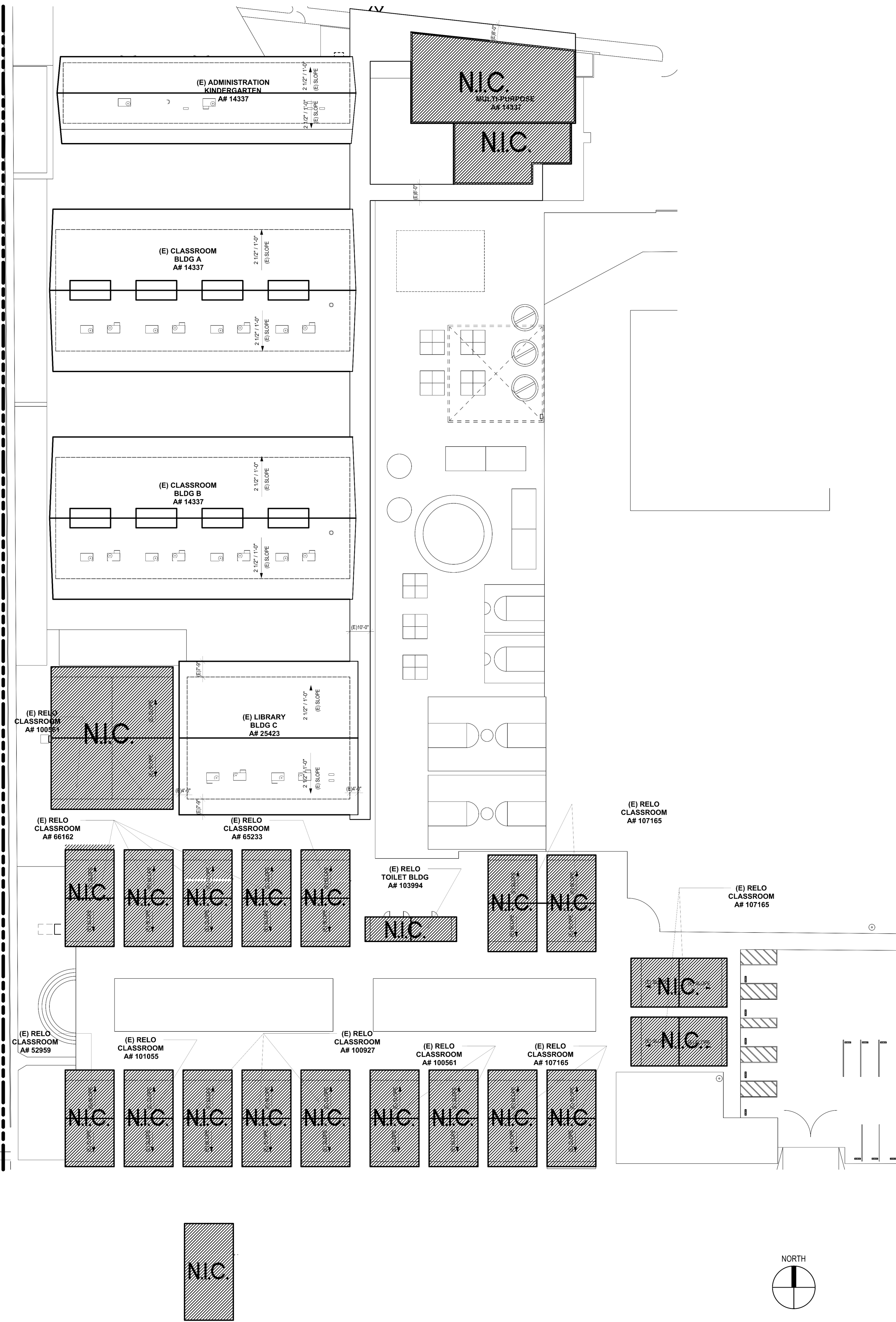
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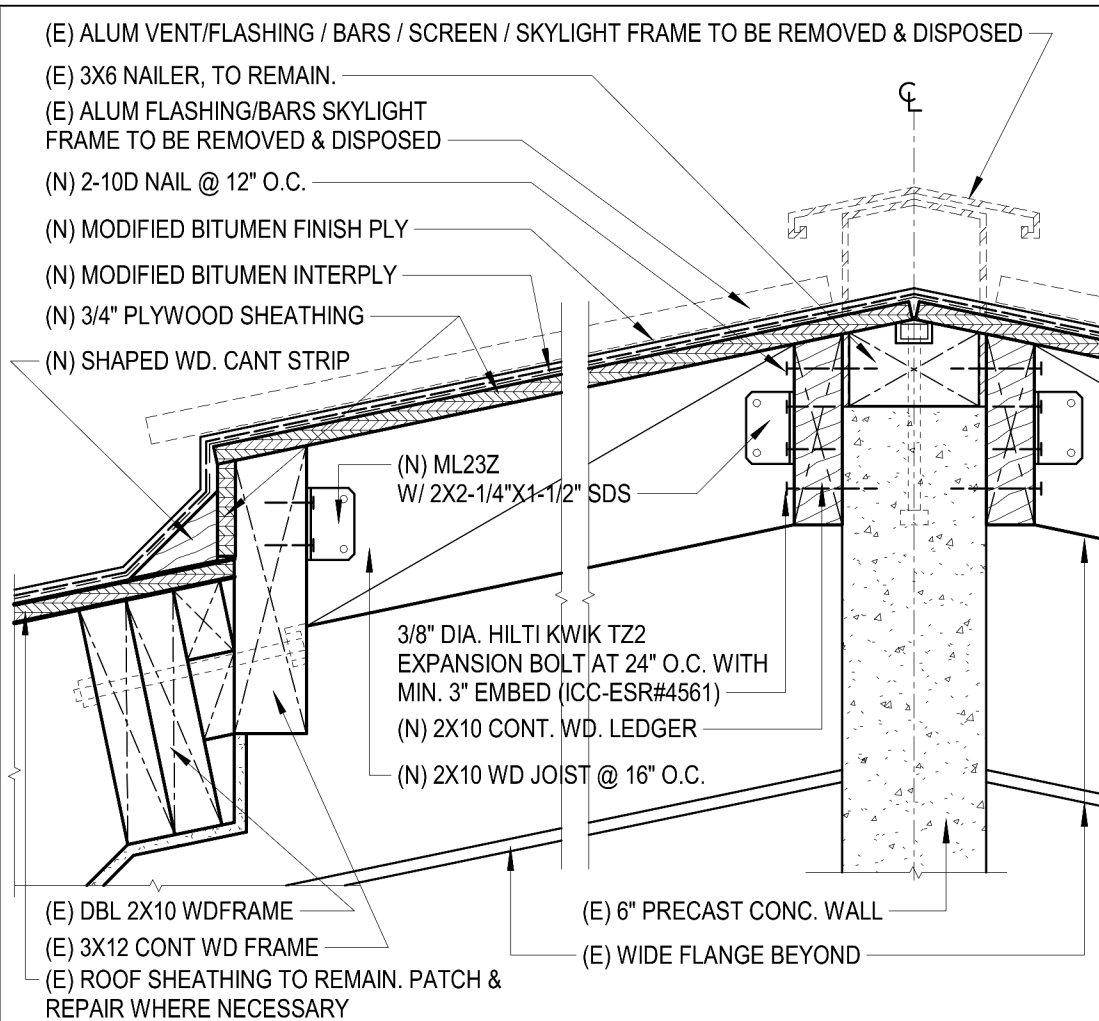
REFLECTED CEILING
PLANS ADMIN/KINDER,
BLDG A,B&C

A2.01

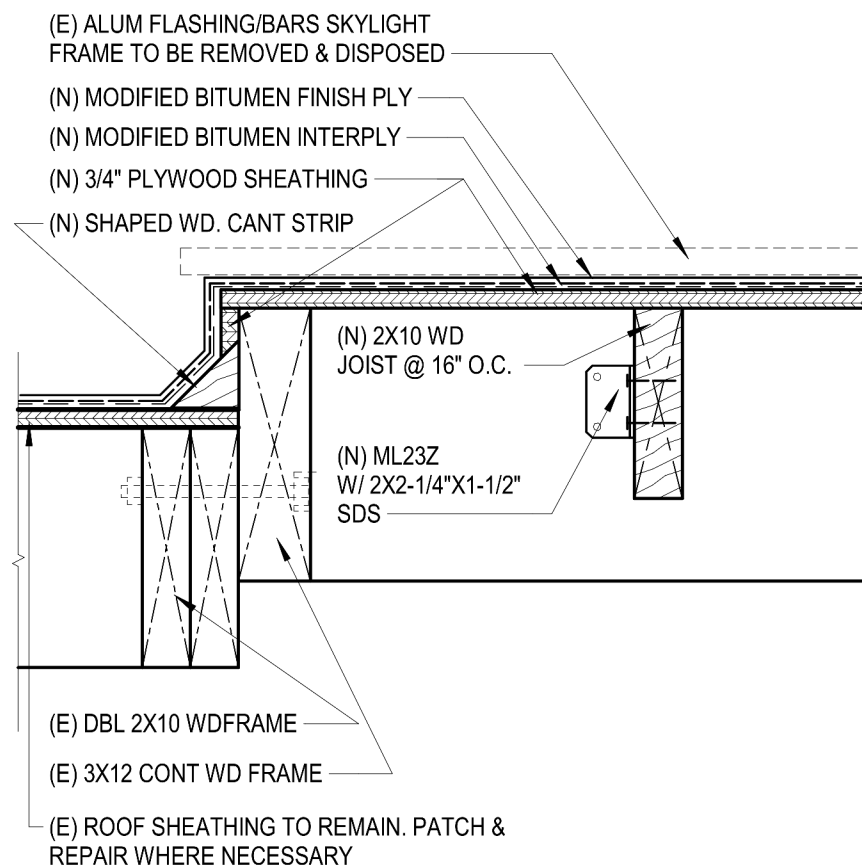
6 SITE PLAN
1/32" = 1'-0"



PARTIAL LIST OF APPLICABLE CODES		
2022 California Administrative Code (CAC)	(Part 1, Title 24, CCR)	
2019 California Building Code (CBC)	(Part 2, Title 24, CCR)	
(2015 International Building Code Volumes 1-2 and 2019 California Amendments)	(Part 3, Title 24, CCR)	
2019 California Electrical Code (CEC)	(Part 4, Title 24, CCR)	
(2014 National Electrical Code and 2019 California Amendments)		
2019 California Plumbing Code (CPC)	(Part 5, Title 24, CCR)	
(2015 Uniform Plumbing Code and 2019 California Amendments)		
2019 California Energy Code (CEC)	(Part 6, Title 24, CCR)	
2019 California Fire Code (CFC)	(Part 7, Title 24, CCR)	
(2015 International Fire Code and 2019 California Amendments)		
2019 California Green Building Standards Code (CAL Green)	(Part 11, Title 24, CCR)	
2019 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 2019 CBC Part 2, Ch 35)		
Note: CalOSHA Elevator Unit enforces CCR Title 6 and uses the 2004 ASME A17.1 by adoption		
PARTIAL LIST OF APPLICABLE STANDARDS		
NFPA 13 Automatic Fire Sprinkler Systems	(2016 Edition)	
NFPA 14 Standpipe and Hose Systems	(2016 Edition)	
NFPA 17 Dry Chemical Extinguishing Systems	(2017 Edition)	
NFPA 17a Wet Chemical Extinguishing Systems	(2016 Edition)	
NFPA 20 Stationary Pumps for Fire Protection	(2013 Edition)	
NFPA 22 Water Tanks for Private Fire Protection	(2016 Edition)	
NFPA 24 Standard for the Installation of Private Fire Service Mains & their Appurtenances (CA amended)	(2016 Edition)	
NFPA 25 Standard for Inspection, Testing and Maintenance of Water-Based Fire Protection Systems (CA amended)	(2013 Edition)	
NFPA 72 National Fire Alarm & Signaling Code (CA amended)	(2016 Edition)	
NFPA 80 Fire Doors and Other Opening Protective	(2016 Edition)	
NFPA 92 Standard for Smoke Control Systems	(2015 Edition)	
NFPA 253 Critical Radiant Flux of Floor Covering Systems	(2015 Edition)	
NFPA 2001 Clean Agent Fire Extinguishing Systems (CA amended)	(2015 Edition)	
ICC 300 ICC-300 Stos on Bleachers, Folding and Telescoping Seating and Grand stands	(2017 Edition)	
UL 300 Fire Testing of Fire Extinguishing Sys for Protection of Restaurant Cooking Areas	2005 (2021)	
UL 464 Audible Signal Appliances	(2003 Edition)	
UL 521 Heat Detectors for Fire Protective Signaling Systems	(1999 Edition)	



27 (E) SKYLIGHT INFILL DETAIL A
NTS



21 (E) SKYLIGHT INFILL DETAIL B
NTS

GENERAL
SHEET NUMBER
A3.01
A3.02
A3.03

SHEET NAMES
SITE PLAN
ENLARGED ROOF PLAN
DETAILS

15 SHEET INDEX

A. CONTRACTOR SHALL VISIT SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY SHALL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING THE SITE VISIT BY THE CONTRACTOR. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS & WARRANTY REQUIREMENTS.

B. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE DOCUMENTS ARE FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN & CONFIRM.

C. ALL NEW CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS.

D. REMOVE ALL ABANDONED EQUIP. IDENTIFIED ON ROOF TOP AND AS SHOWN ON DRAWINGS - (PATCH DECK) HOLES LESS THAN 10" WIDE - SCREW 22 GA. STAINLESS STEEL SHEET METAL TO EXISTING DECK HOLES GREATER THAN 10" WIDE - SCREW NEW METAL DECK (MATCH EXISTING) SPAN FROM JOIST TO JOIST.

E. ALL HVAC AND/OR DX UNITS, ELECTRICAL TRANSFORMERS, ROOF TOP EQUIPMENT, ETC. THAT ARE ON SLEEPERS SHALL BE DISCONNECTED/REMOVED, RAISED, & PLACED ON NEW CURBED PLATFORMS (RE: DETAIL), AND RECONNECTED/RE-INSTALLED. VERIFY ALL EXISTING CURB MOUNTED UNITS, EQUIPMENT, ETC. HAVE A MINIMUM 10" CURB HEIGHT (RAISED AS REQUIRED) - ALL DISCONNECTS AND RECONNECTS SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.

F. IF EXISTING ELECTRICAL/GAS/WATER/ETC. LINES ARE MODIFIED - ONLY LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL SHALL PERFORM THAT TYPE OF WORK. PERMITS AND INSPECTIONS REQUIRED - PROVIDE "MERCURY" GAS LINE TEST (COORDINATE OWNER/ARCHITECT WITNESS OF TEST), REPAIR ALL LEAKS AND RE-TEST

G. REPLACE AND RAISE (AS REQUIRED) ALL EXISTING EXPANSION JOINTS/AREA DIVIDERS/ CURB MOUNTED EQUIPMENT/ SKYLIGHTS A MIN. 10" ABOVE ROOF DECK. (UNLESS INDICATED OTHER WISE ON DRAWING.)

H. ENSURE ALL SOIL STACK FLASHING IS MIN. 10" ABOVE ROOF. COUPLE PVC PIPE ABOVE DECK, COUPLE CAST IRON PIPE UNDER DECK.

I. PROVIDE SHEET METAL HOODED (w/METAL FACE CLOSURE), WOOD CURB, BOX COVER AT ALL GAS LINE AND WATER LINE ROOF PENETRATIONS (RE: DETAILS). ENSURE LINES SLOPE AWAY FROM FACE COVER.

J. PROVIDE WALKWAY PROTECTION PADS (AS ACCEPTABLE TO MANUFACTURER-RE: SPECS.) AROUND ALL ROOF HATCHES, A/C UNITS, DOORS THAT OPEN ONTO ROOF, AND AT ALL ROOF TOP ACCESS LADDERS (TOP & BOTTOM)

K. ISOLATE ALL HEAT PIPES/FLUES AS RECOMMENDED & OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING-- (RE:DETAILS)

L. ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING WORK.

M. EXAMINE AND CLEAN EXISTING DRAIN LINES OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY.

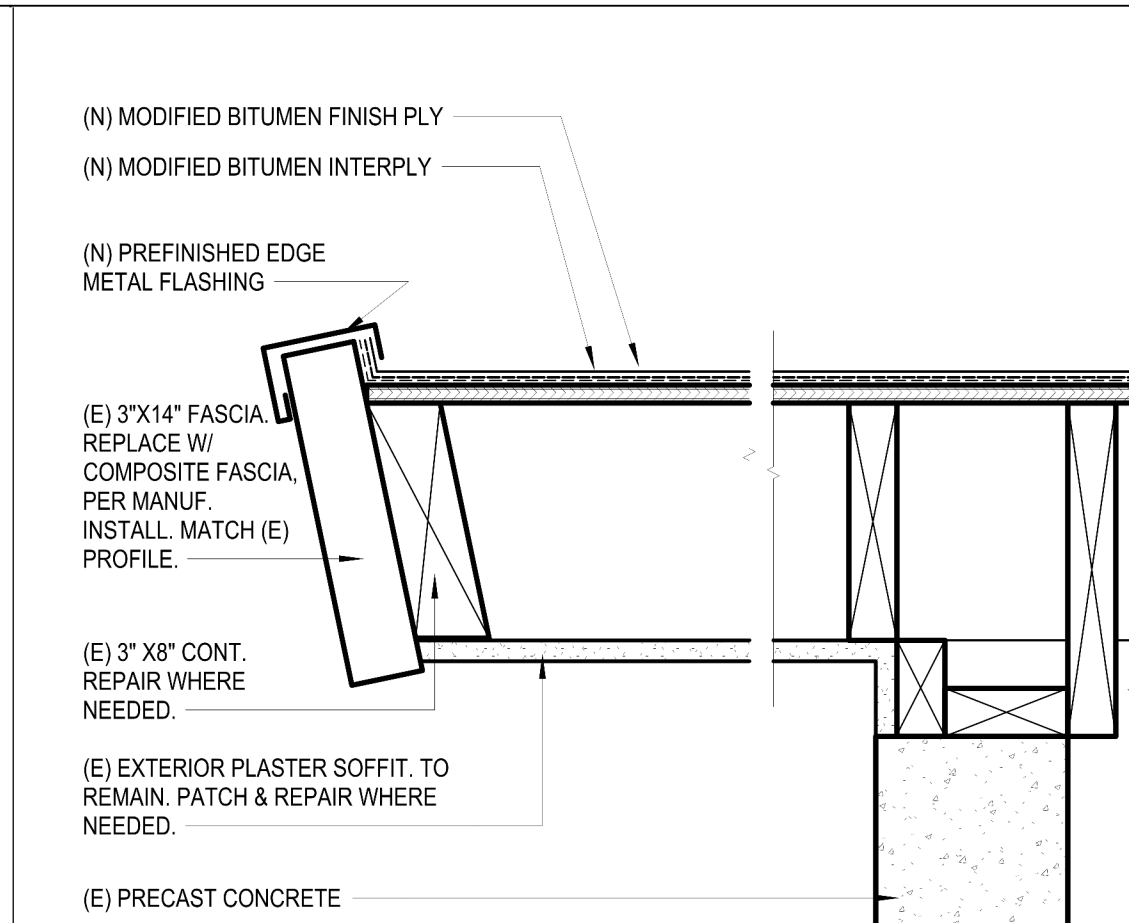
N. OWNER WILL VERIFY CORRECT OPERATION OF ALL ROOF TOP EQUIPMENT BEFORE AND AFTER PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL INOPERABLE EQUIPMENT PRIOR TO RELEASE OF RETAINAGE.

O. REPLACE ALL RUSTED/DETERIORATED EXISTING METAL VENT FLASHING AND FLUES.

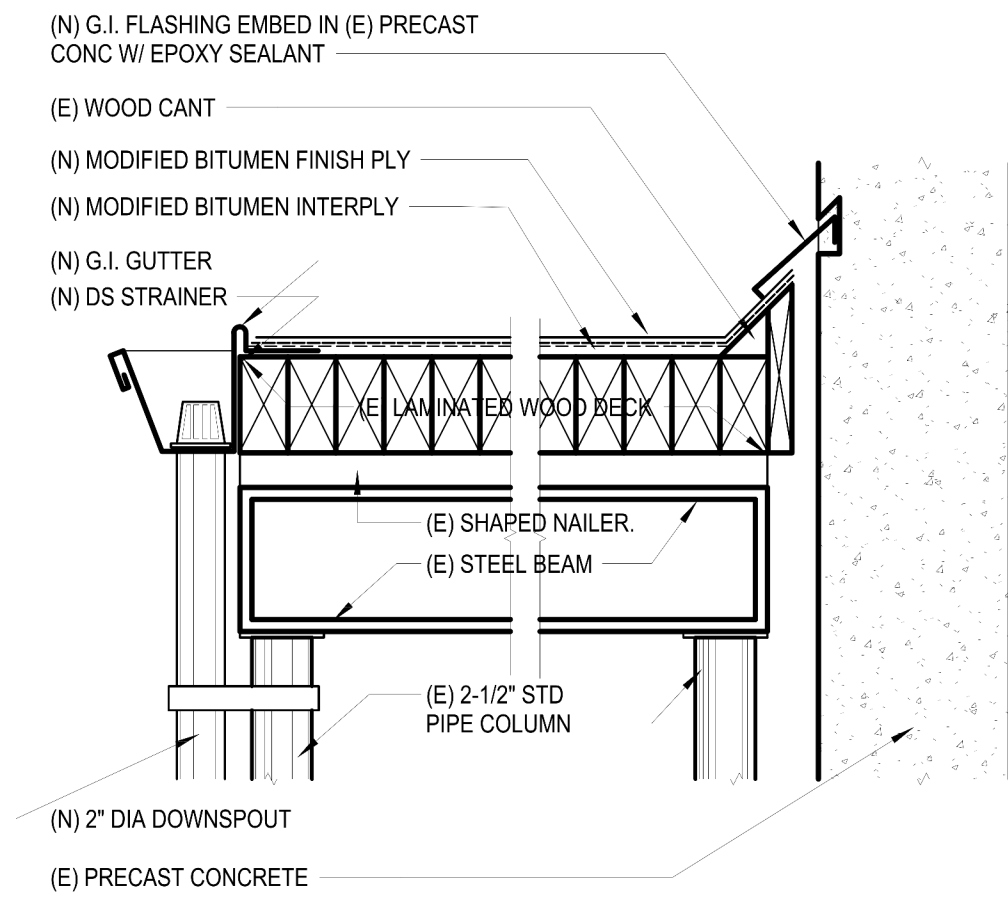
P. COORDINATE WALK OF ENTIRE ROOF (PRIOR TO STARTING) WITH ROOFING MANUFACTURER'S TECHNICAL REP. TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.

Q. PROVIDE ONE-WAY MOISTURE VENTS 1 PER 900 SF AT ALL LT. WT. OVER POUR AREAS

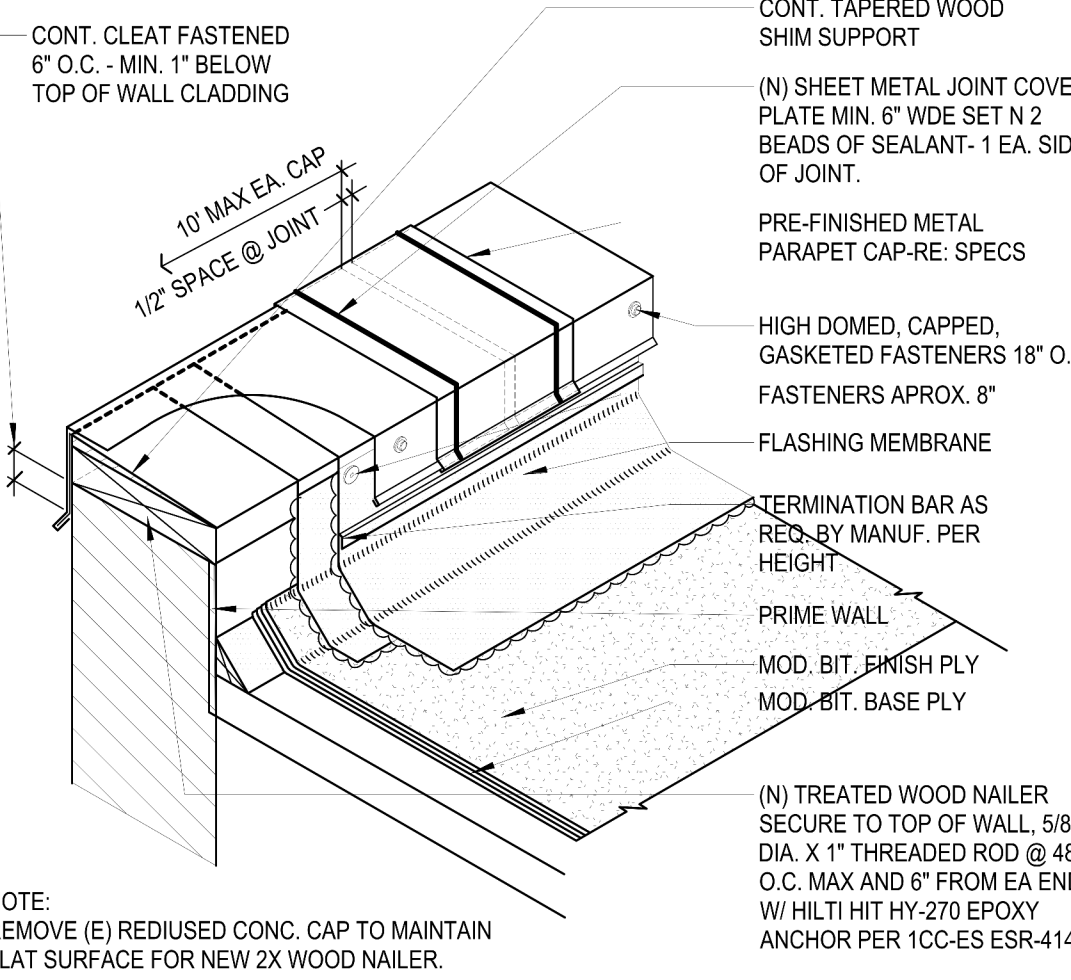
3 GENERAL NOTES



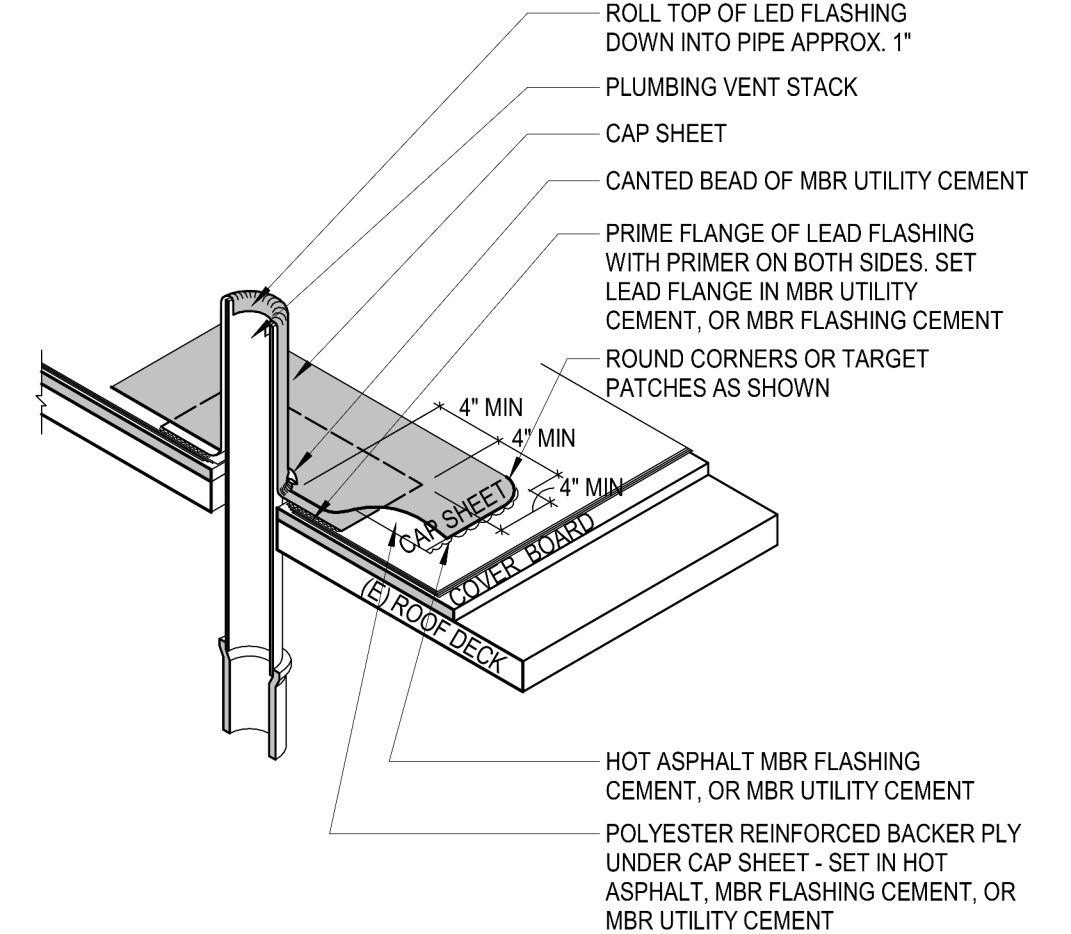
26 TYP. GABLE END DETAIL
NTS



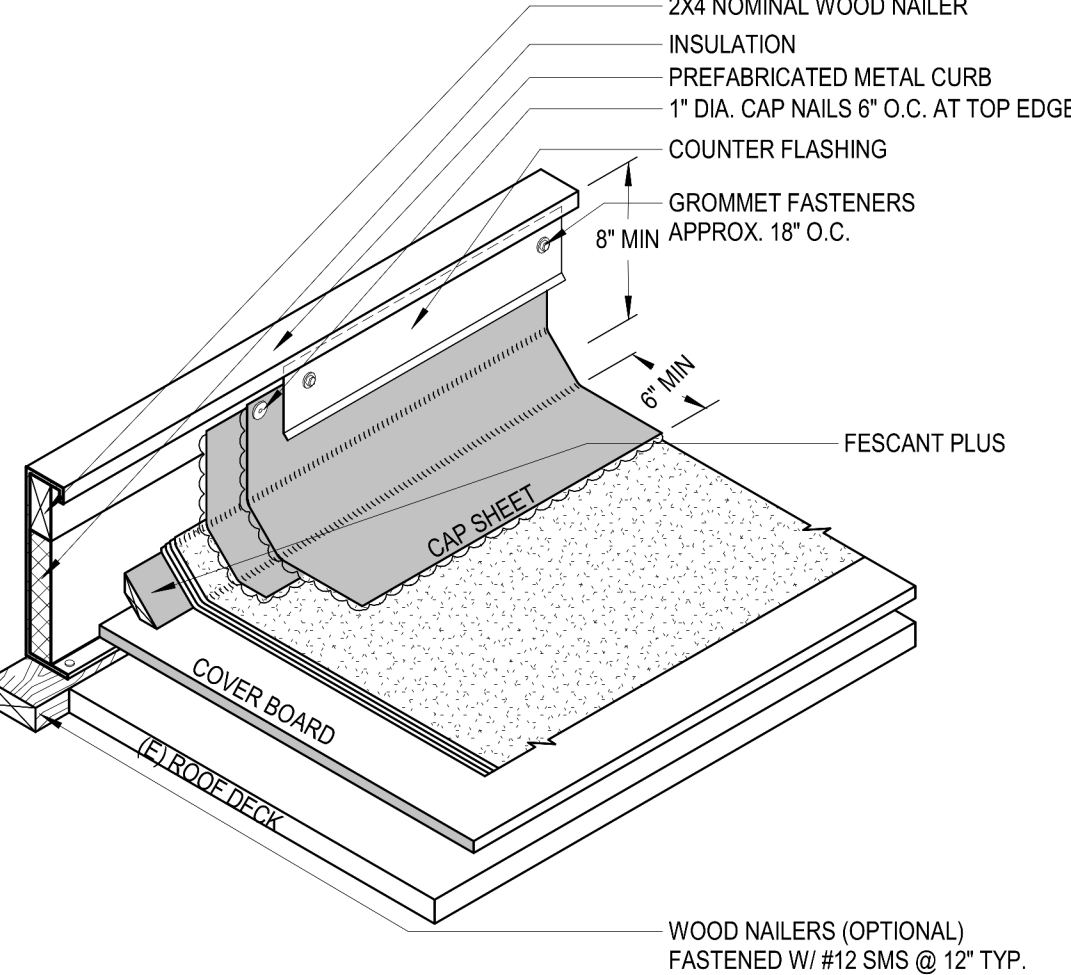
20 TYP. COVERED WALKWAY DETAIL
1 1/2\"/>



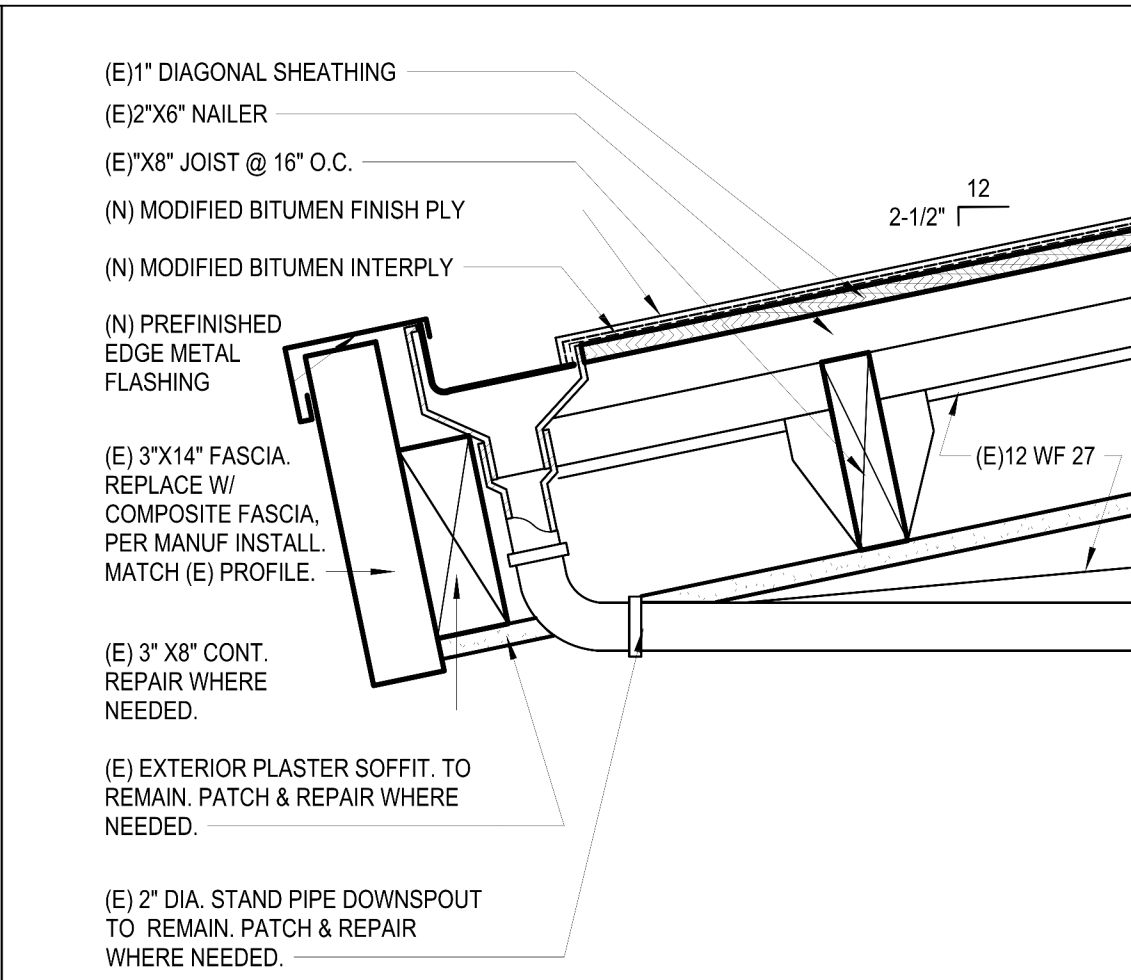
14 (N) PARAPET BASE & CAP
NTS



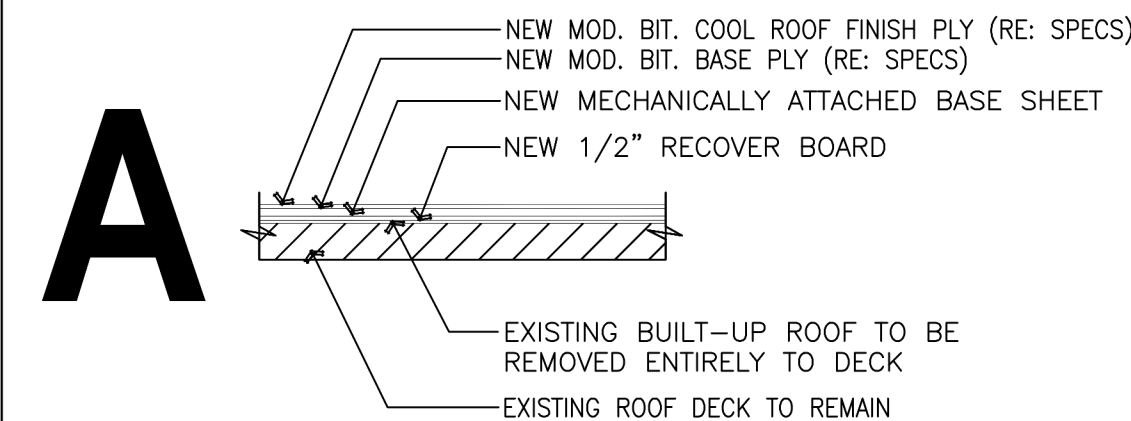
8 (N) PLUMBING VENT THRU ROOF
NTS



2 (N) PREFABRICATED CURB
NTS



25 TYP. EAVE DETAIL
NTS



19 NEW NOMENCLATURE
NTS

ROOF AREA	APPROX. SQ.FT.	EXISTING ROOF	NEW ROOF PER 19A3.01	REMARKS
#1 RELO CR A#62559	1140 SF	WD/SS-BUR-A	N/A	
#1 RELO CR A#65162	1140 SF	WD/SS-BUR-A	N/A	
#1 RELO CR A#100561	1140 SF	WD/SS-BUR-A	N/A	
#1 RELO CR A#100927	1140 SF	WD/SS-BUR-A	N/A	
#1 RELO CR A#101055	1140 SF	WD/SS-BUR-A	N/A	
#1 RELO CR A#107165	1140 SF	WD/SS-BUR-A	N/A	
#2 RELO CR A#65162	1140 SF	WD/SS-BUR-A	N/A	
#2 RELO CR A#100561	1140 SF	WD/SS-BUR-A	N/A	
#2 RELO CR A#100927	1140 SF	WD/SS-BUR-A	N/A	
#2 RELO CR A#107165	1140 SF	WD/SS-BUR-A	N/A	
#3 RELO CR A#65162	1140 SF	WD/SS-BUR-A	N/A	
#3 RELO CR A#100927	1140 SF	WD/SS-BUR-A	N/A	
#3 RELO CR A#107165	1132 SF	WD/SS-BUR-A	N/A	
#4 RELO CR A#107165	1132 SF	WD/SS-BUR-A	N/A	
#4 RELO CR A# 66162	1140 SF	WD/SS-BUR-A	N/A	
#5 RELO CR A#107165	1164 SF	WD/SS-BUR-A	N/A	
#6 RELO CR A#107165	1140 SF	WD/SS-BUR-A	N/A	
(E) RELO TOILET	540 SF	WD/SS-BUR-A	N/A	
ADMIN / KINDERGARTEN	5207 SF	WD/SS-BUR-A	A	
ADMIN UNDER OVERHANG	1023 SF	WD/SS-BUR-A	A	
BLDG A CLASSROOMS	12151 SF	WD/SS-BUR-A	A	
BLDG B CLASSROOMS	12151 SF	WD/SS-BUR-A	A	
BLDG C CLASSROOMS	6787 SF	WD/SS-BUR-A	A	
LIBRARY				
COVERED WALKWAY	5833 SF	WD/SS-BUR-A	A	
MPR	4830 SF	WD/SS-BUR-A	N/A	
RELO CR A#65233	1140 SF	WD/SS-BUR-A	N/A	
RELO CR A#100561	4200 SF	WD/SS-BUR-A	N/A	

13 EXISTING NOMENCLATURE

1 REMOVE AND PROPERLY DISPOSE OF EXISTING ROOFING (WEIGHING APPROXIMATELY 8 LBS/SF) INSULATION (RE: 30411) DOWN TO EXISTING ROOF DECK AT ROOF AREAS ADMIN, KINDERGARTEN, BLDG A B.C. MPR & ALL RELOCATABLES. PREPARE / REPAIR EXISTING VERTICAL FASCIA NAILER (INCLUDE 100 IN FT OF REPLACEMENT) FOR INSTALLATION OF NEW CLASS "A" ROOF SYSTEM. PREPARE / REPAIR EXISTING ROOF DECK WITH LINE AND MATERIAL AND ATTACHMENT. MECHANICALLY ATTACH NEW BASE SHEET, HEAT WELD MODIFIED BITUMEN BASE PLY ROOF MEMBRANE, ENSURE IS WATER TIGHT PRIOR TO

ASSOCIATED ROOF RELATED SHEET METAL, GUTTERS, DOWNSPOUTS, EDGE METALS AND TRIM. THE TOTAL WEIGHT OF THE NEW COMPLETED ROOF IS NOT TO EXCEED 5 LBS/SF.

2. PROVIDE R-30 BATT INSULATION UNDER ROOF DECK PER SPEC SECTION 07 21 00.

3. REPLACE OR REPAIR ALL EXISTING ROOF DAMAGE.

4. REPLACE EXISTING ROOF FASCIA WITH "TREX" COMPOSITE FASCIA, MATCH EXISTING FASCIA PROFILE.

5. ROOFING TO BE CLASS A ASSEMBLY.

7 SCOPE OF WORK

EXISTING AREAS TO REMAIN - NIC

NOTE:
SQUARE FOOTAGES SHOWN ARE FOR REFERENCE ONLY - (FIELD VERIFY) CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND FOR ENSURING NEW CONDITIONS ADHERE TO ALL LOCAL AND FEDERAL CODES ALONG WITH INDUSTRY STANDARD GUIDELINES AND REMAIN IN A WATERTIGHT CONDITION.

SEE SPECIFICATION DIVISION 7 FOR OTHER ROOF RELATED COMPONENTS.

ABBREVIATIONS:

WD: WOOD ROOF DECK
SS: SLIP SHEET

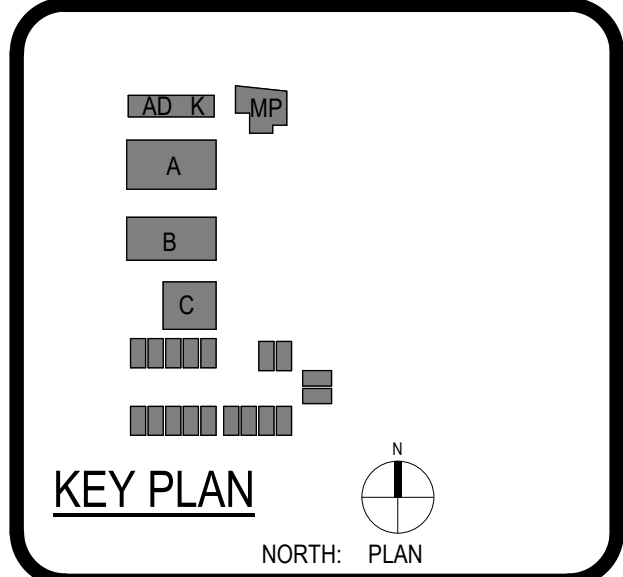
1 GENERAL LEGEND
NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

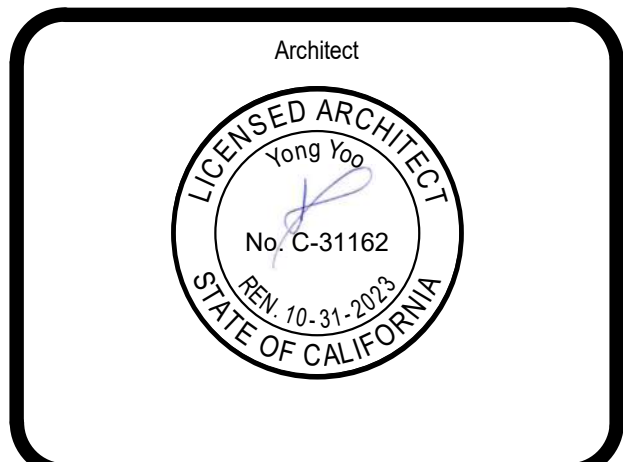
PRK

ARCHITECT
PRK Architects, Inc.
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
P 949-548-5000

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION



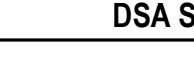
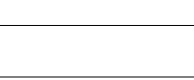
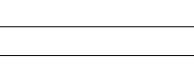
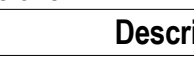
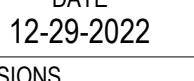
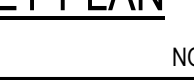
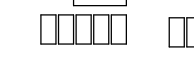
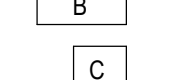
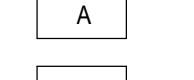
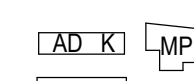
Consultant
BEAM
PROFESSIONALS



REVISIONS		
No.	Description	Date

OVERALL ROOF PLAN AND DETAIL






























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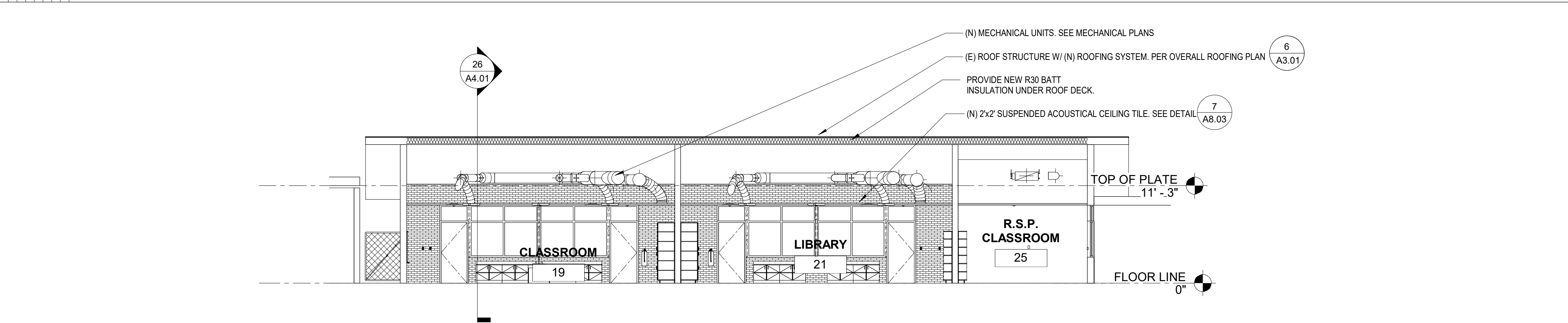
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- E. ALL HVAC AND/OR DX UNITS, ELECTRICAL TRANSFORMERS, ROOF TOP EQUIPMENT, ETC. THAT ARE ON SLEEPERS SHALL BE DISCONNECTED FROM ELECTRICAL SERVICE. REMOVE ALL CURBED PLATFORMS (RE: DETAIL) AND RECONNECTED RE-INSTALLED. VERIFY ALL EXISTING CURB MOUNTED UNITS, EQUIPMENT, ETC. HAVE A MINIMUM 10" CURB HEIGHT (RAISED AS REQUIRED) - ALL DISCONNECTS AND DISCONNECTS SHALL BE RE-TESTED TO MATCH ORIGINAL PERMITS AND INSURANCE REQUIREMENTS. PROVIDE "MERCURY" GAS LINE TEST (COORDINATE OWNER/ARCHITECT WITNESS OF TEST), REPAIR ALL LEAKS AND RE-TEST.
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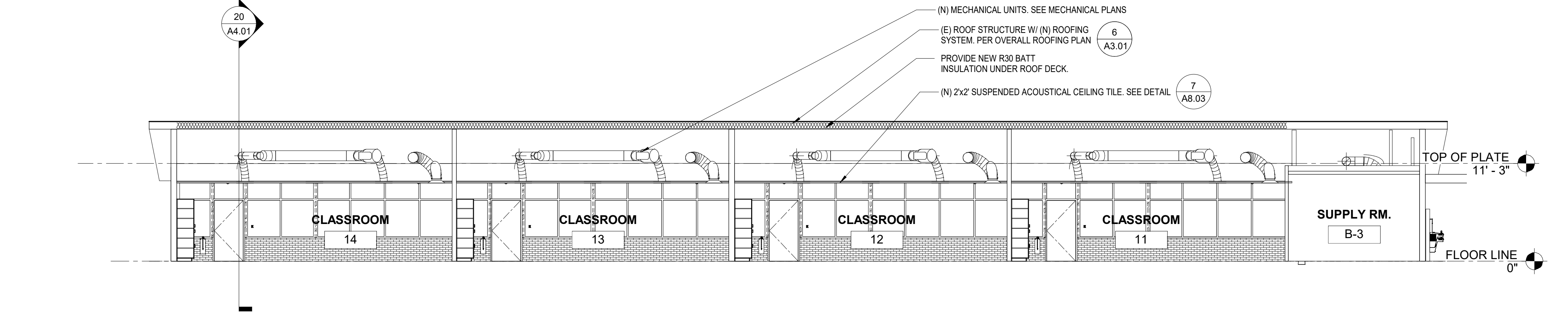
7	GENERAL NOTES
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- | | | | | | |
|---|--------------------------------------|---|------------------|---|---|
| # | PLUMBING VENT |  | GOOSE NECK VENT |  | PIPE BOX |
| ⊙ | FLANGE VENT |  | CURB MOUNTED A/C | | |
| # | PITCH PAN |  | SPLASH BLOCK |  | RIDGE LINE |
|  | NEW ROOF DRAIN |  | SPLASH PAN |  | EXISTING AREAS TO REMAIN – NIC |
| + | EXIST. ROOF DRAIN |  | A/C ON POSTS | | |
| OF | OVERFLOW DRAIN |  | ROOF HATCH |  | NEW TAPERED INSULATION / CRICK |
| | WALL DRAIN |  | SKYLIGHT | A1 | ROOF AREA DESIGNATION |
|  | CURB MOUNTED VENT |  | ANTENNA | | |
| | |  | SATELLITE DISH |  | TAPERED LIGHTWEIGHT CONCRETE |
|  | ABANDONED CURB TO BE REMOVED/PATCHED |  | SCUPPER | | |
| / | GUY WIRE |  | GUTTER |  | SCREEN WALL |
| ⊙ | POWER VENT |  | DOWNSPOUT | | |
| ⊙ | HEATER VENT |  | WALL LADDER |  | DESIGNATES EXTENT OF WORK IDENTIFIED BY KEYED NOTES |
| ⊙ | BOILER VENT |  | SWING LADDER |  | EXPANSION JOINT |
| ⊙ | TURBINE VENT |  | GAS LINE |  | CONDENSATE LINE |
| A | ABANDON EQUIP. |  | ELEC. LINE |  | WATER LINE |

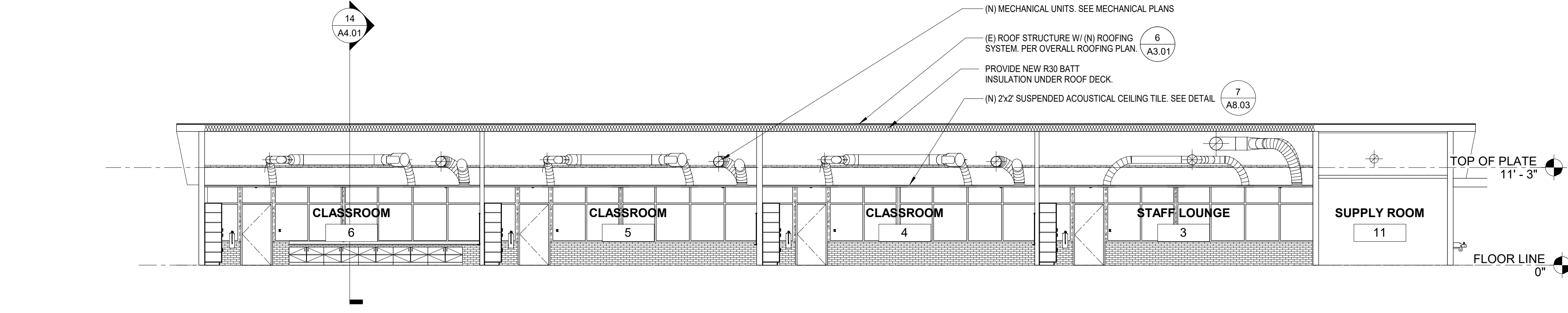
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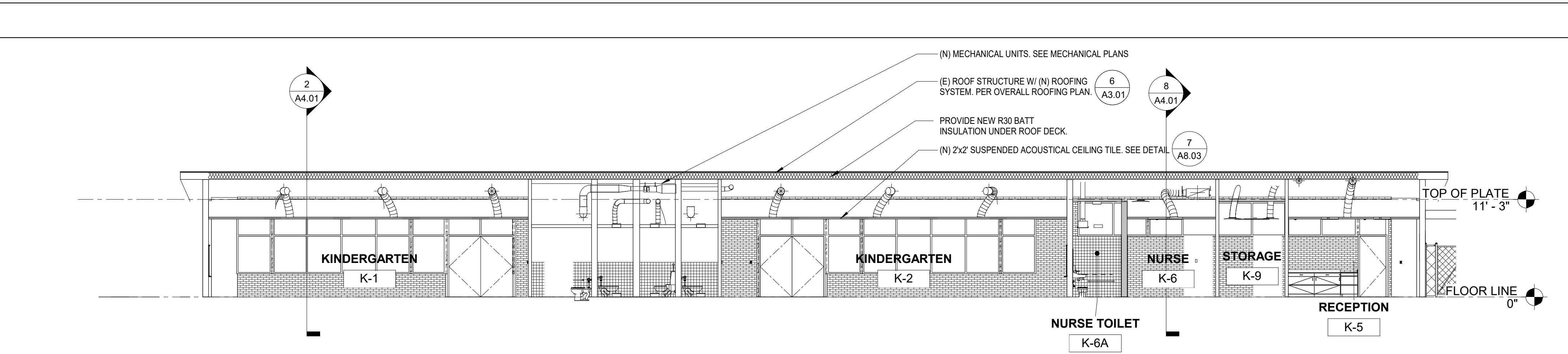
30 BLDG C - SECTION B
1/8" = 1'-0"



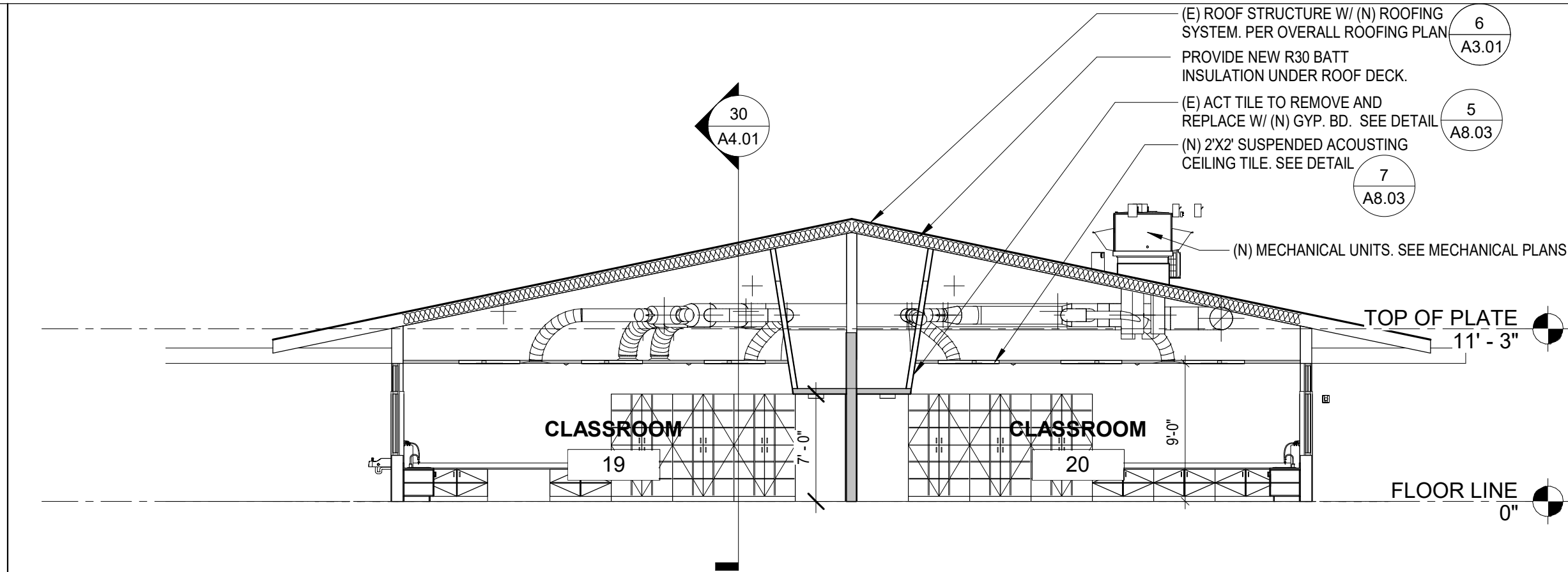
24 BLDG B - SECTION B
1/8" = 1'-0"



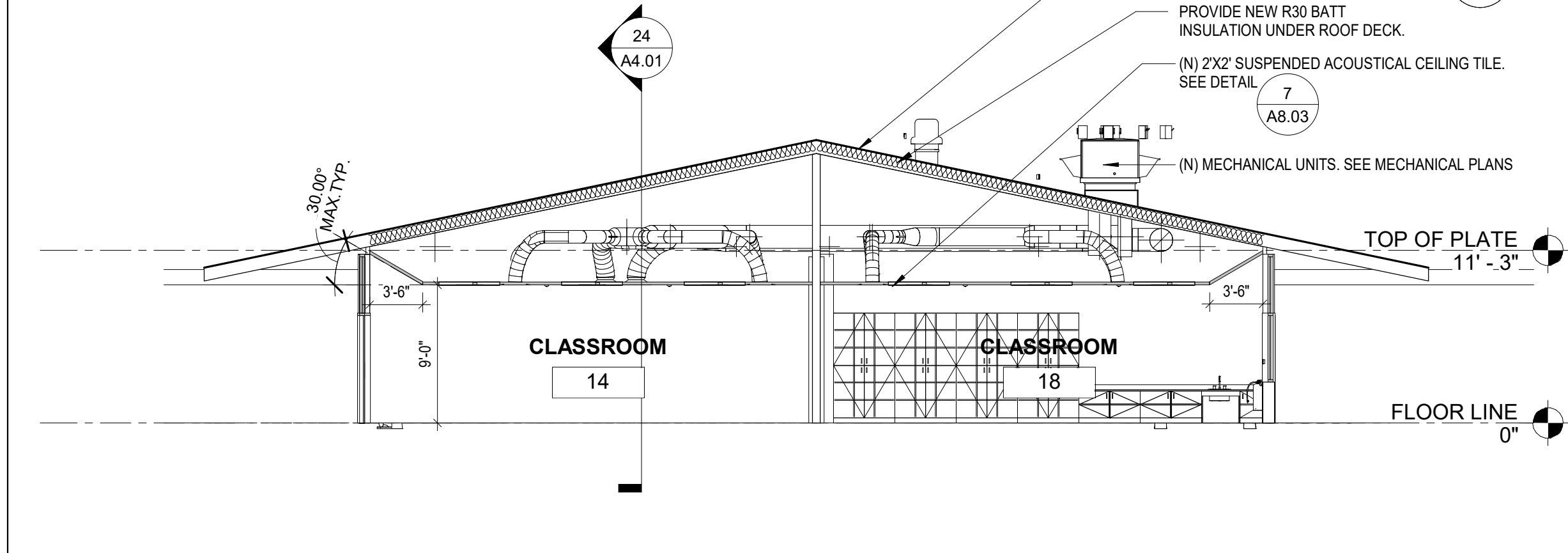
18 BLDG A - SECTION B
1/8" = 1'-0"



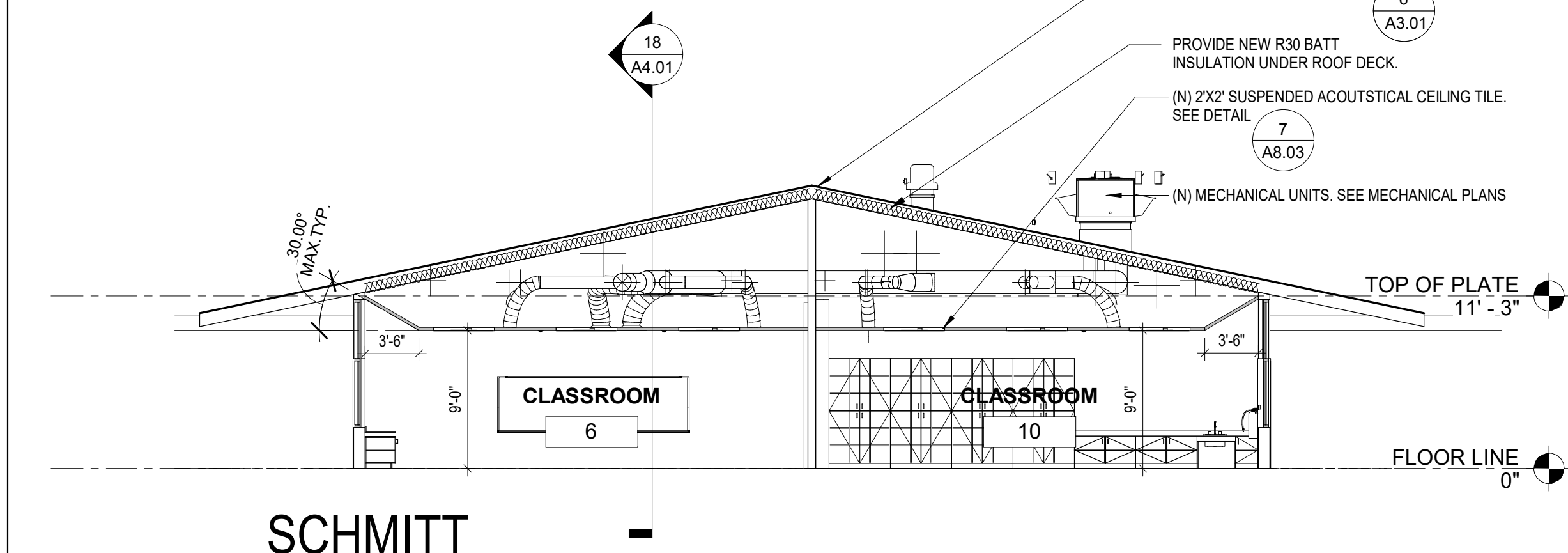
6 BLDG ADMIN / KINDER - SECTION B
1/8" = 1'-0"



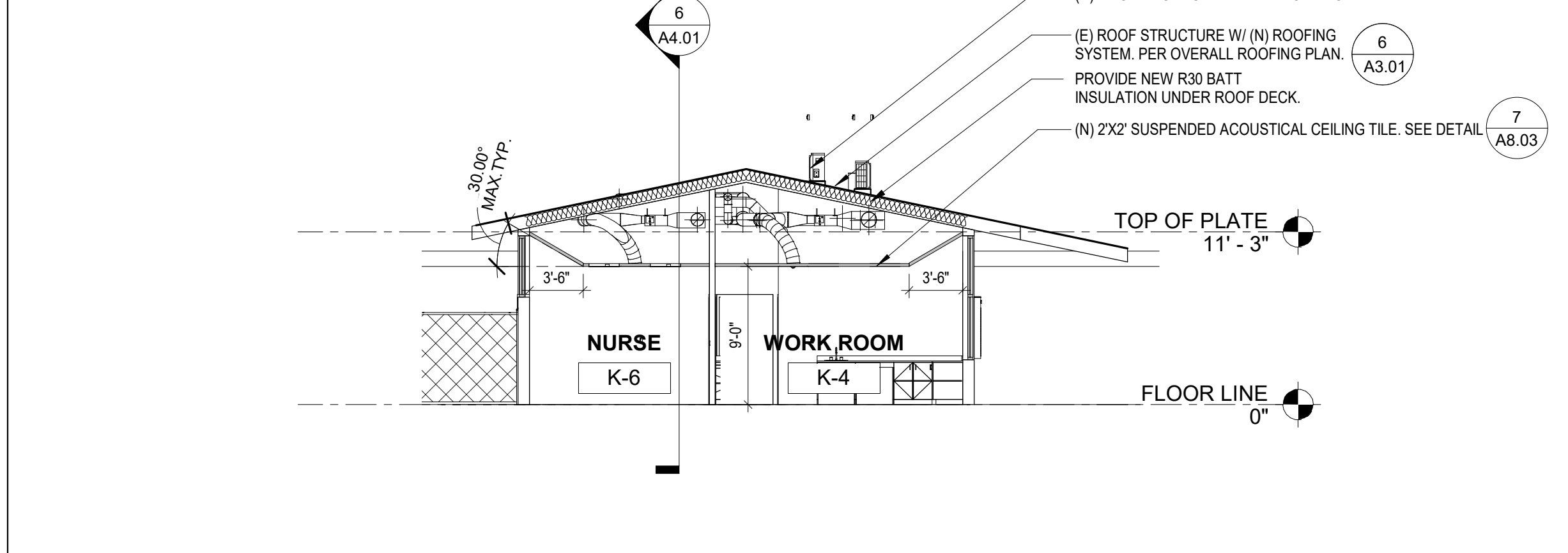
26 BLDG C - SECTION A
1/8" = 1'-0"



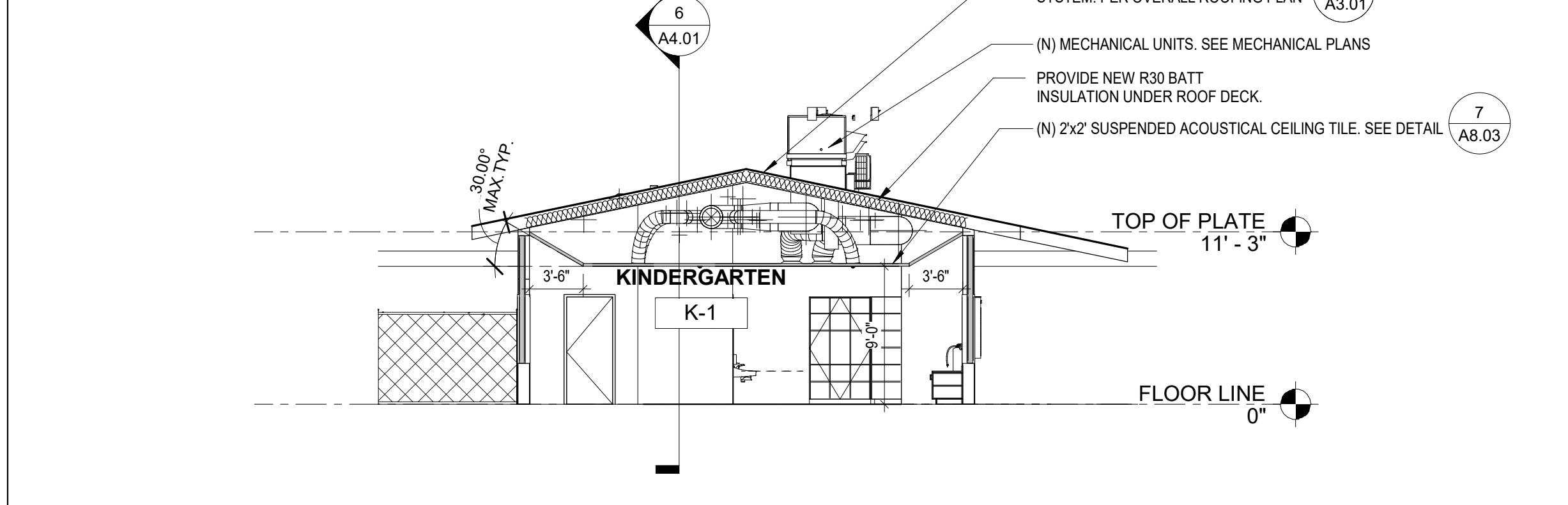
20 BLDG B - SECTION A
1/8" = 1'-0"



14 BLDG A - SECTION A
1/8" = 1'-0"



8 BLDG ADMIN - SECTION A
1/8" = 1'-0"



2 BLDG KINDER - SECTION A
1/8" = 1'-0"

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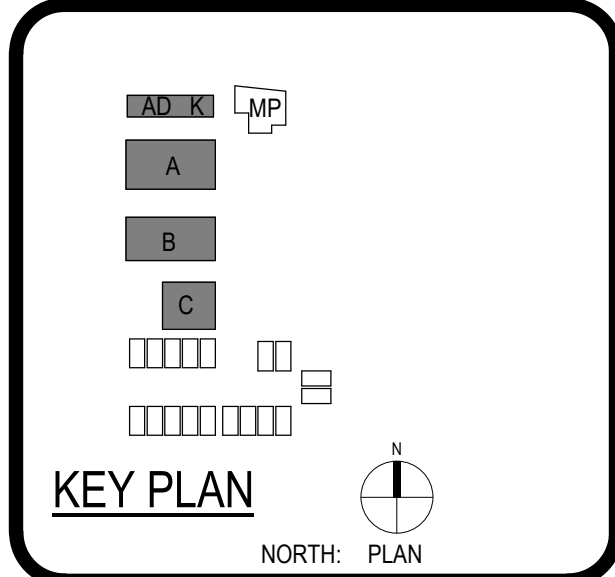
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ANAHEIM
2400 E. Katella Ave., Suite 950
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P 949-548-5000
PRK.com

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
7200 Tress Ave
Westminster, CA 92683

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DSA APPL NO. 04-121817 DSA FILE NO. 30-43



Consultant

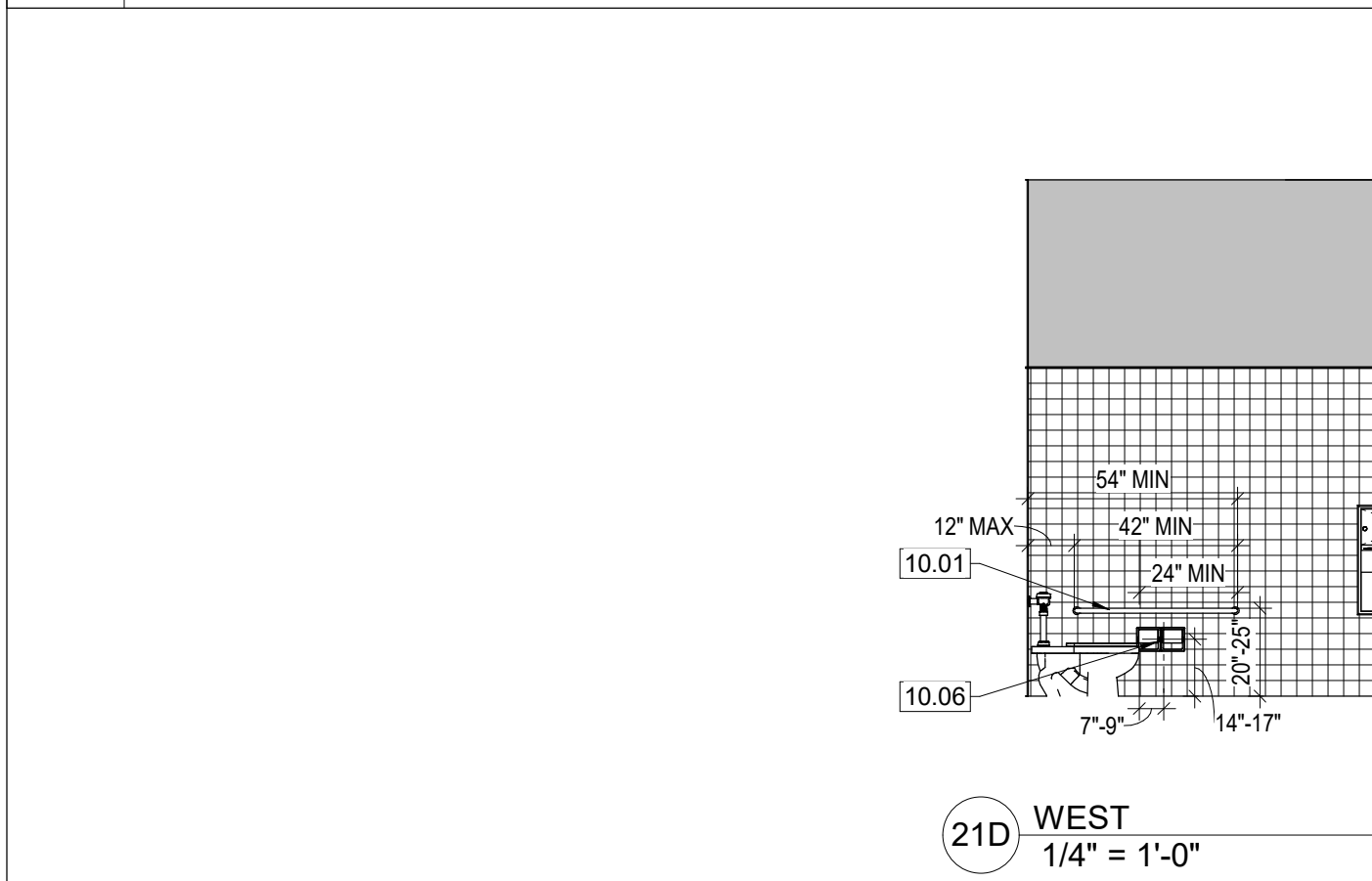
Architect
LONG YONG
No. C-31162
Exp. 10-31-2023
STATE OF CALIFORNIA

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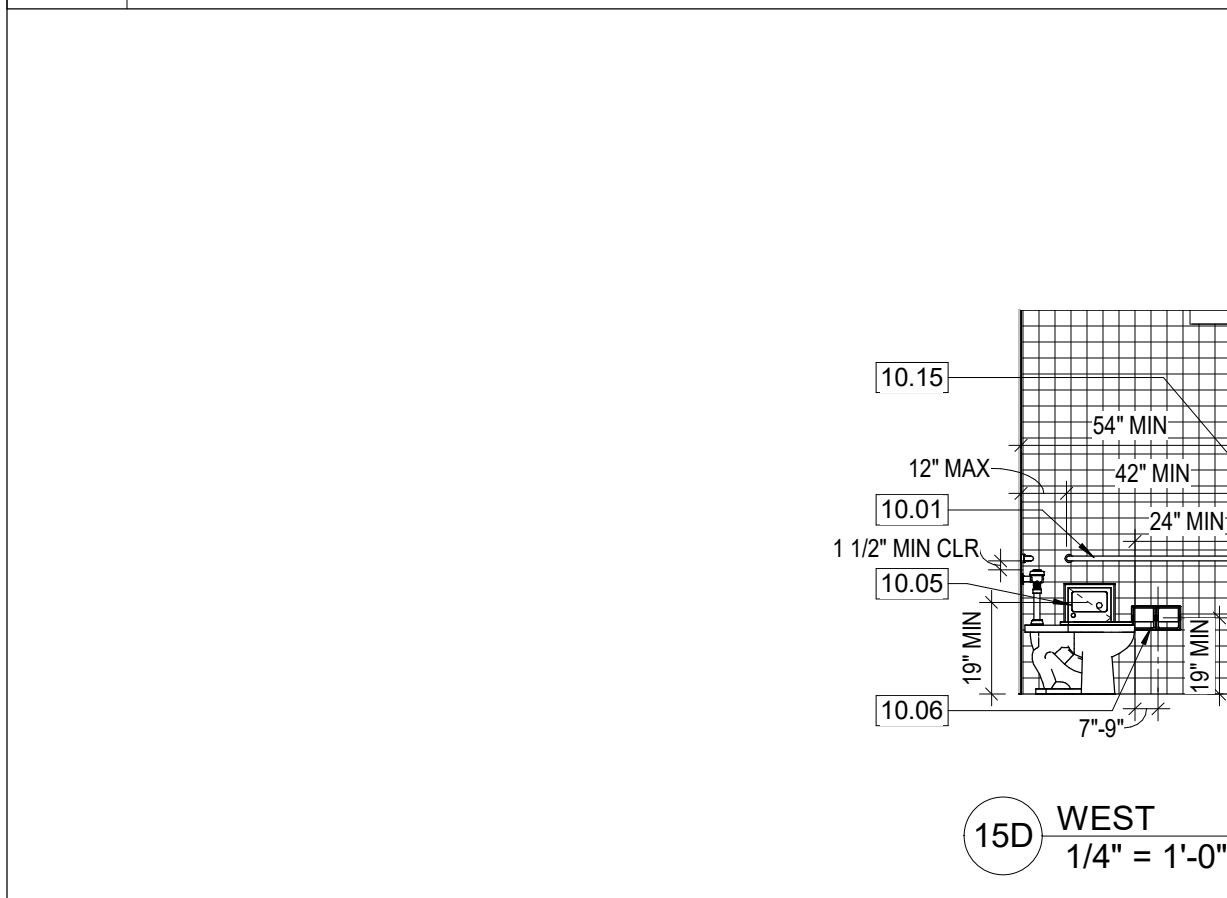
DSA SUBMITTAL
BUILDING SECTIONS

A4.01

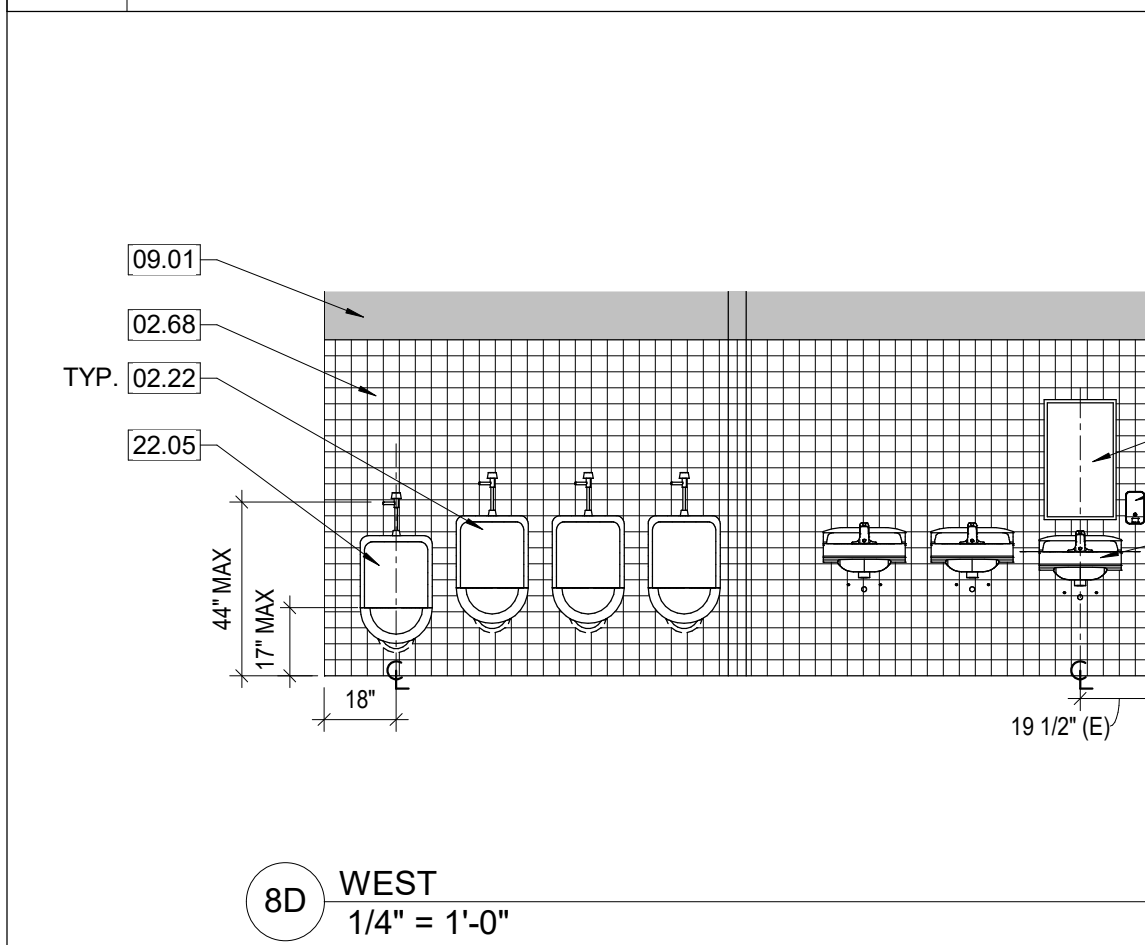
30 ELEVATIONS - K-6 KINDERGARTEN TOILET (AGES 5-8)



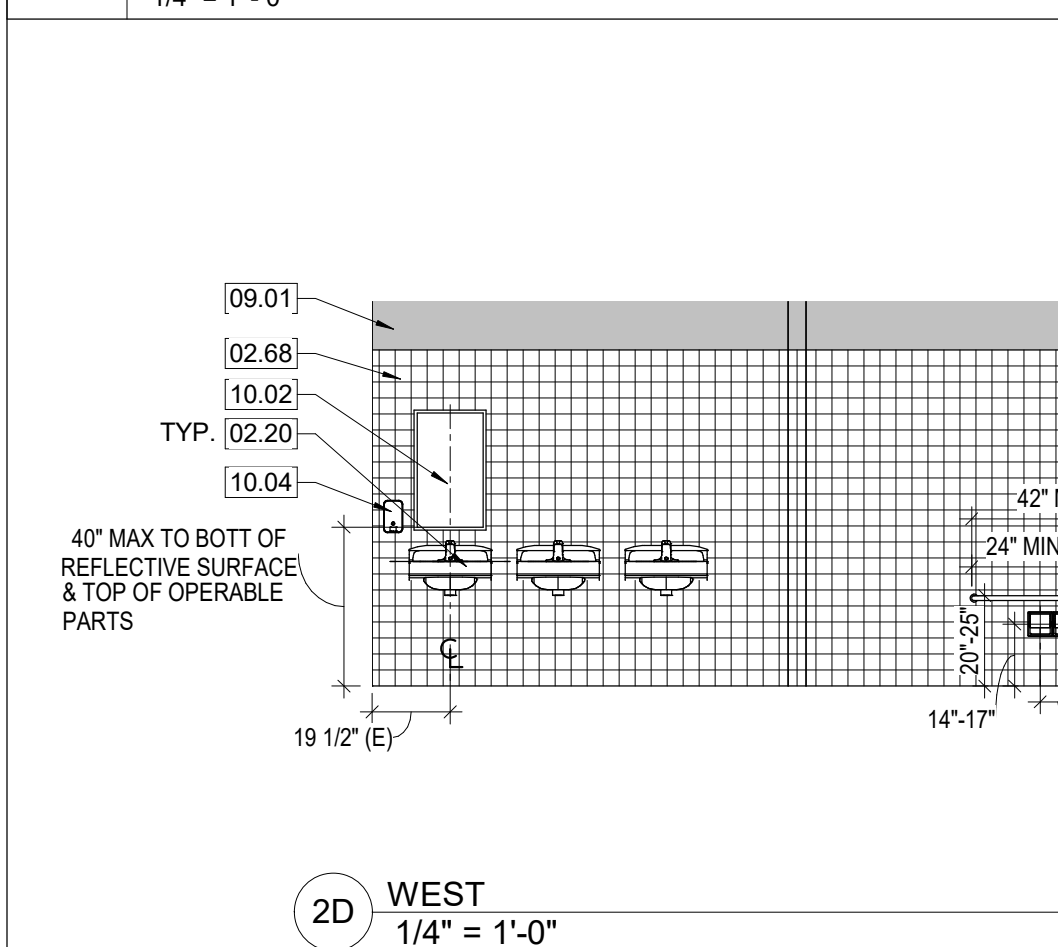
24 ELEVATIONS - K-6A NURSE TOILET (AGES 5-8)



18 ELEVATIONS - K-4A STAFF TOILET (ADULT)



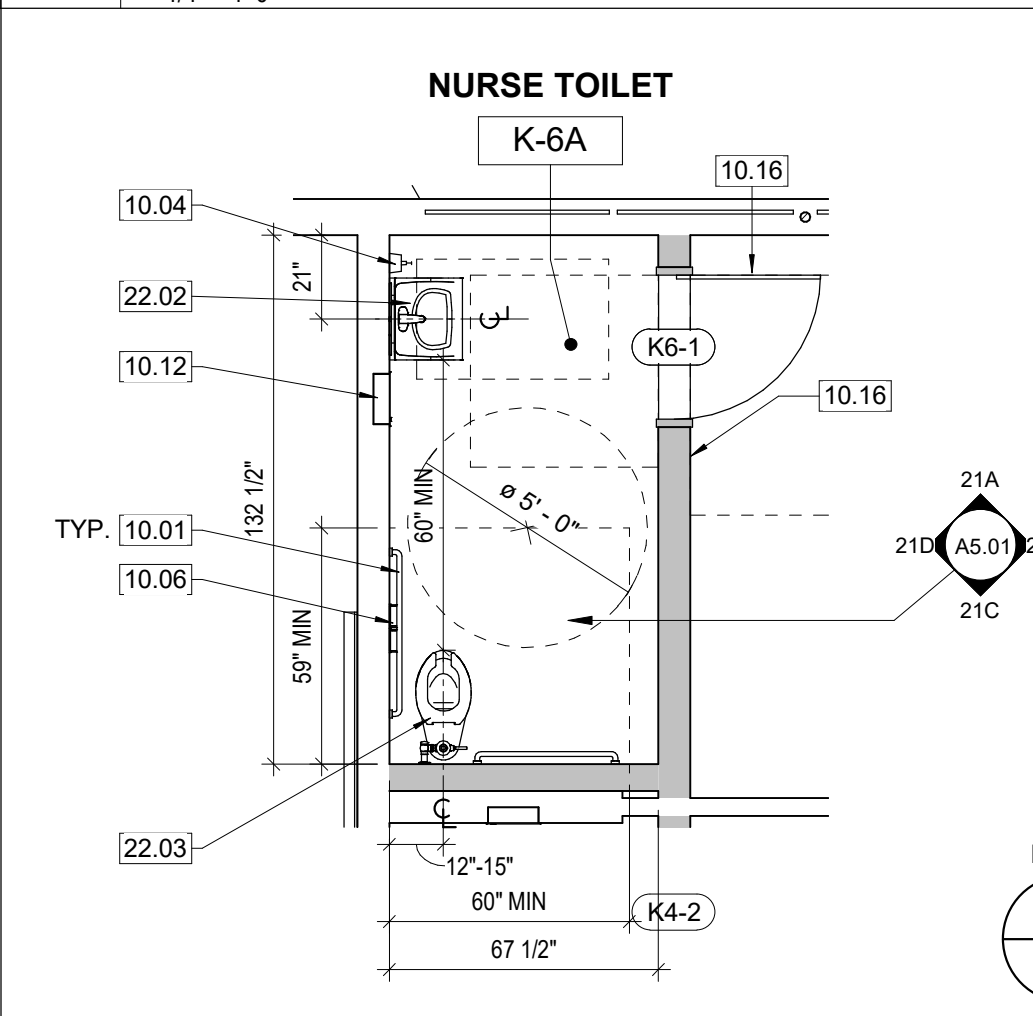
12 ELEVATIONS - B-2 BOYS RR (AGES 5-8)



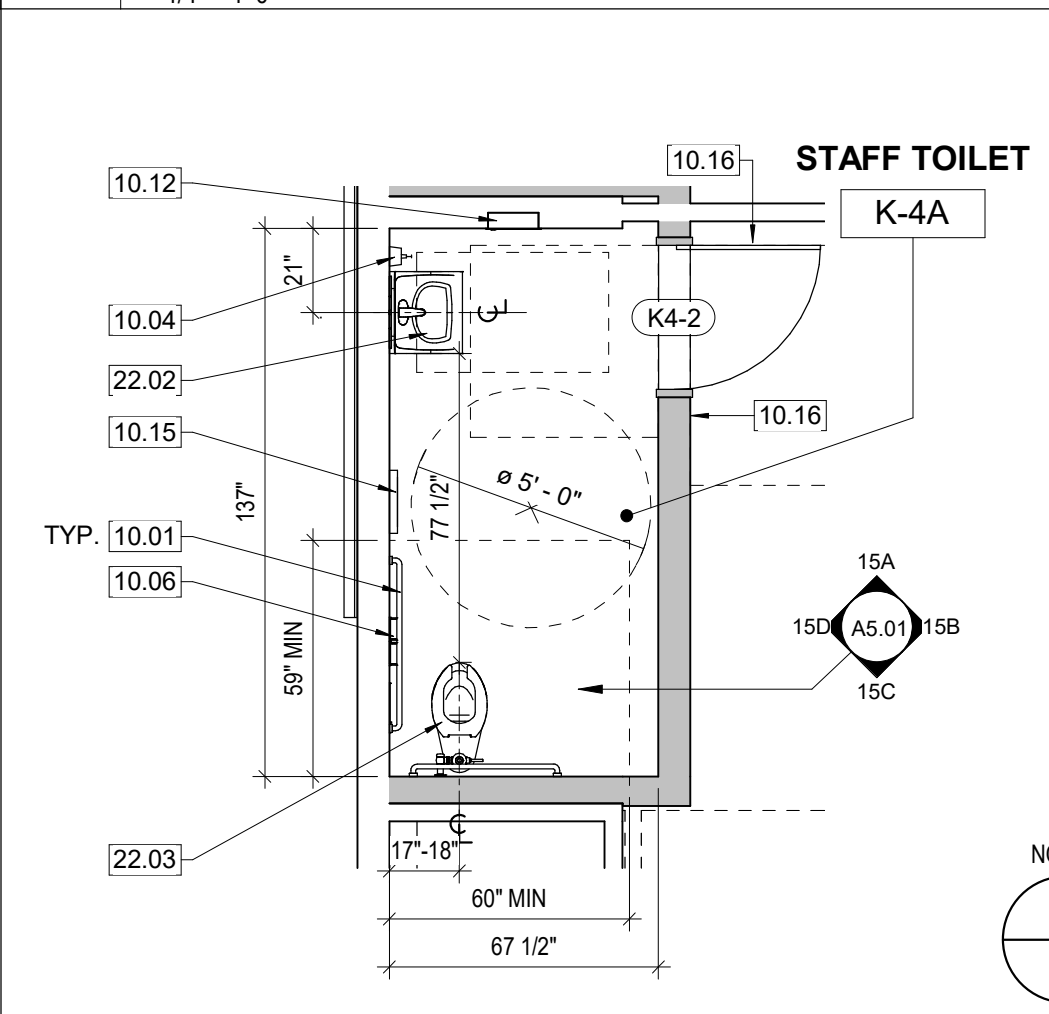
6 ELEVATIONS - B-1 GIRLS RR (AGES 5-8)



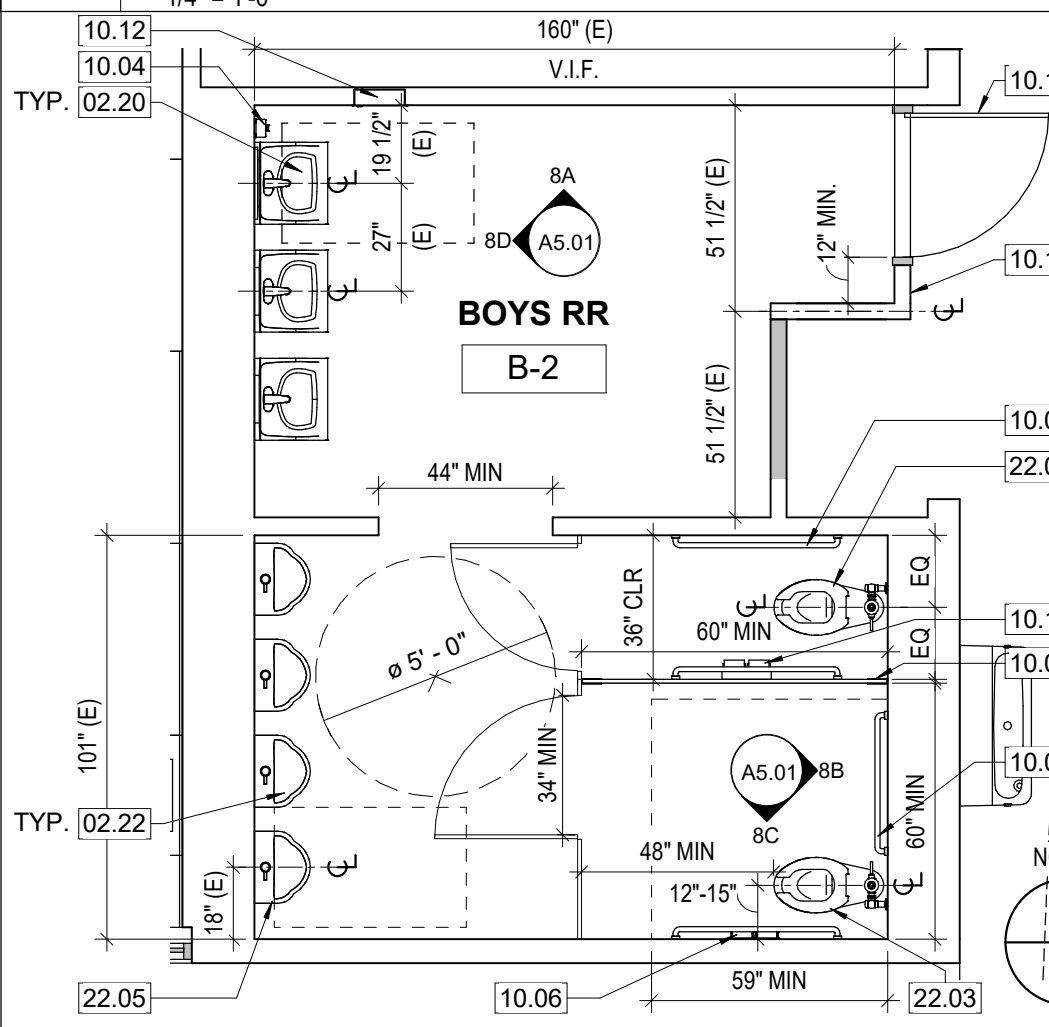
26 PLAN - K-6 KINDER TOILET (AGES 5-8)



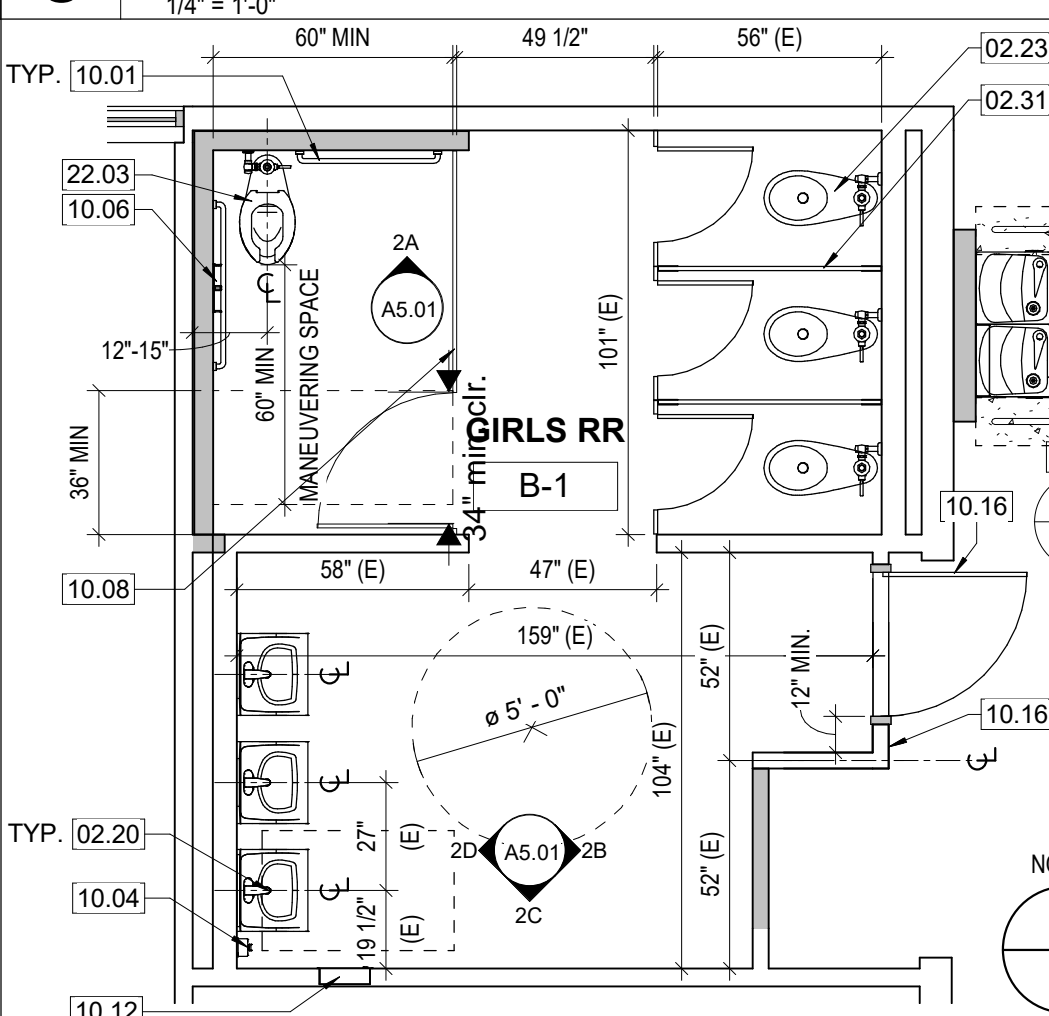
20 PLAN - K-6A NURSE TOILET (AGES 5-8)



14 PLAN - K-4A STAFF TOILET (ADULT)



8 PLAN - B-2 BOYS RR (AGES 5-8)



2 PLAN - B-1 GIRLS RR (AGES 5-8)



CONSTRUCTION KEYED NOTES

- 02.20 (E) LAVATORY TO REMAIN
- 02.21 (E) SOAP DISPENSER TO REMAIN
- 02.22 (E) URINAL TO REMAIN
- 02.23 (E) TOILET FIXTURE TO REMAIN
- 02.26 (E) MIRROR TO REMAIN
- 02.31 (E) FLOOR MOUNTED OVERHEAD BRACED SOLID PLASTIC TOILET PARTITION TO REMAIN
- 02.68 (E) CERAMIC TILE TO REMAIN, PROTECT IN PLACE
- 02.89 (E) WALL FINISH TO REMAIN, PROTECT IN PLACE
- 09.01 (N) INTERIOR PAINT FINISH, SEE FINISH SCHEDULE
- 09.03 (N) 4X4 CERAMIC TILE, PROVIDE GREENBOARD SUBSTRATE AT (E) BRICK SURFACES.
- 10.01 (N) WALL MOUNTED GRAB BAR, MOUNT PER DETAIL 27/A8.02
- 10.02 (N) WALL MOUNTED MIRROR
- 10.04 (N) WALL MOUNTED HAND SOAP DISPENSER
- 10.05 (N) RECESSED SANITARY NAPKIN DISPOSAL
- 10.06 (N) SEMI-RECESSED TOILET PAPER DISPENSER, 4" MAX PROTRUSION
- 10.08 (N) SOLID PLASTIC TOILET PARTITION, FOR MOUNTING SEE DETL. 12/A8.03
- 10.12 (N) COMBO PAPER TOWEL DISPENSER & WASTE RECEPTACLE, 4" MAX PROTRUSION
- 10.13 (N) SURFACE MOUNT TOILET PAPER DISPENSER, 4" MAX PROTRUSION
- 10.15 (N) TOILET SEAT COVER DISPENSER, 4" MAX PROTRUSION
- 10.16 TACTILE RESTROOM DOOR & WALL SIGN, REF DETAIL 24/A8.02
- 22.01 (N) ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILLER & FURRED WALL. SEE DETAIL 19/C4
- 22.02 (N) WALL MOUNTED LAVATORY, BACKING SUPPORT PER DETL 6/A8.03
- 22.03 (N) ACCESSIBLE FLOOR MOUNTED WATER CLOSET
- 22.05 (N) WALL MOUNTED URINAL, BACKING SUPPORT PER DETL 6/A8.03

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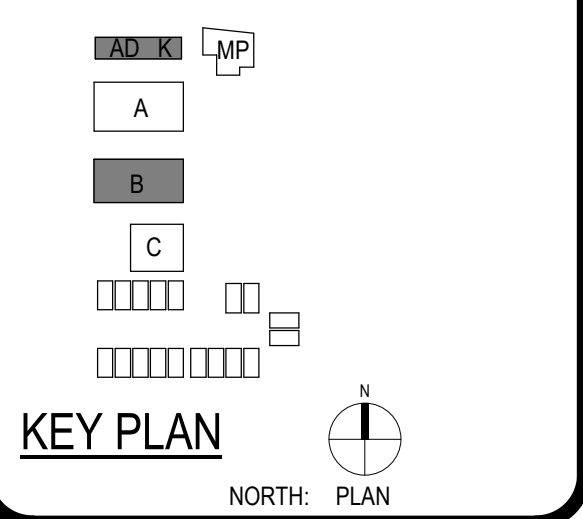
ARCHITECT PRK Architects, Inc.
2400 E. Katella Ave., Suite 950
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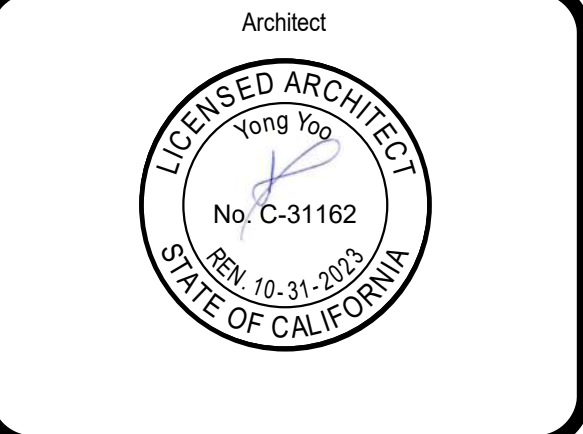
PROJECT ADDRESS:
7200 Tress Ave
Westminster, CA 92683

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DSA APPL NO. 04-121817 DSA FILE NO. 30-43



Consultant



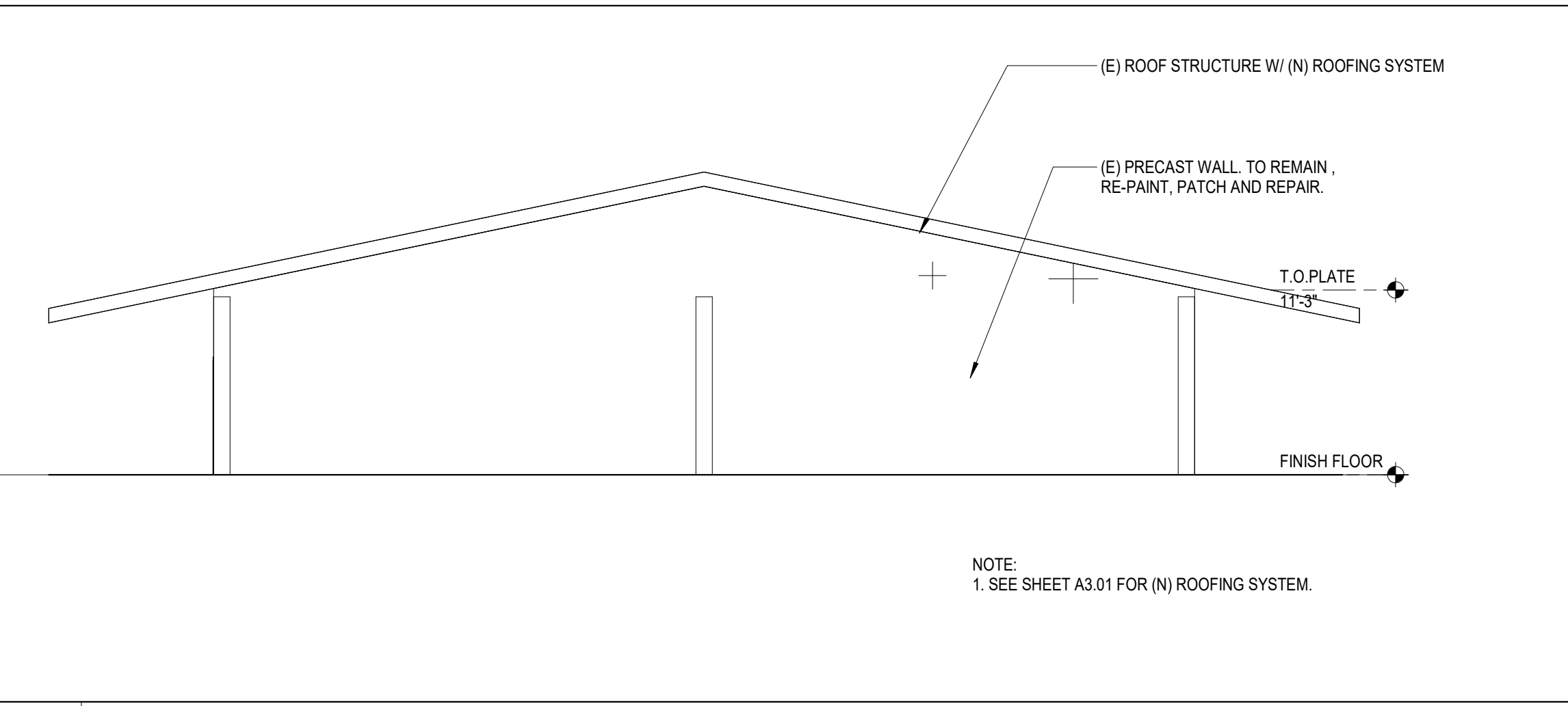
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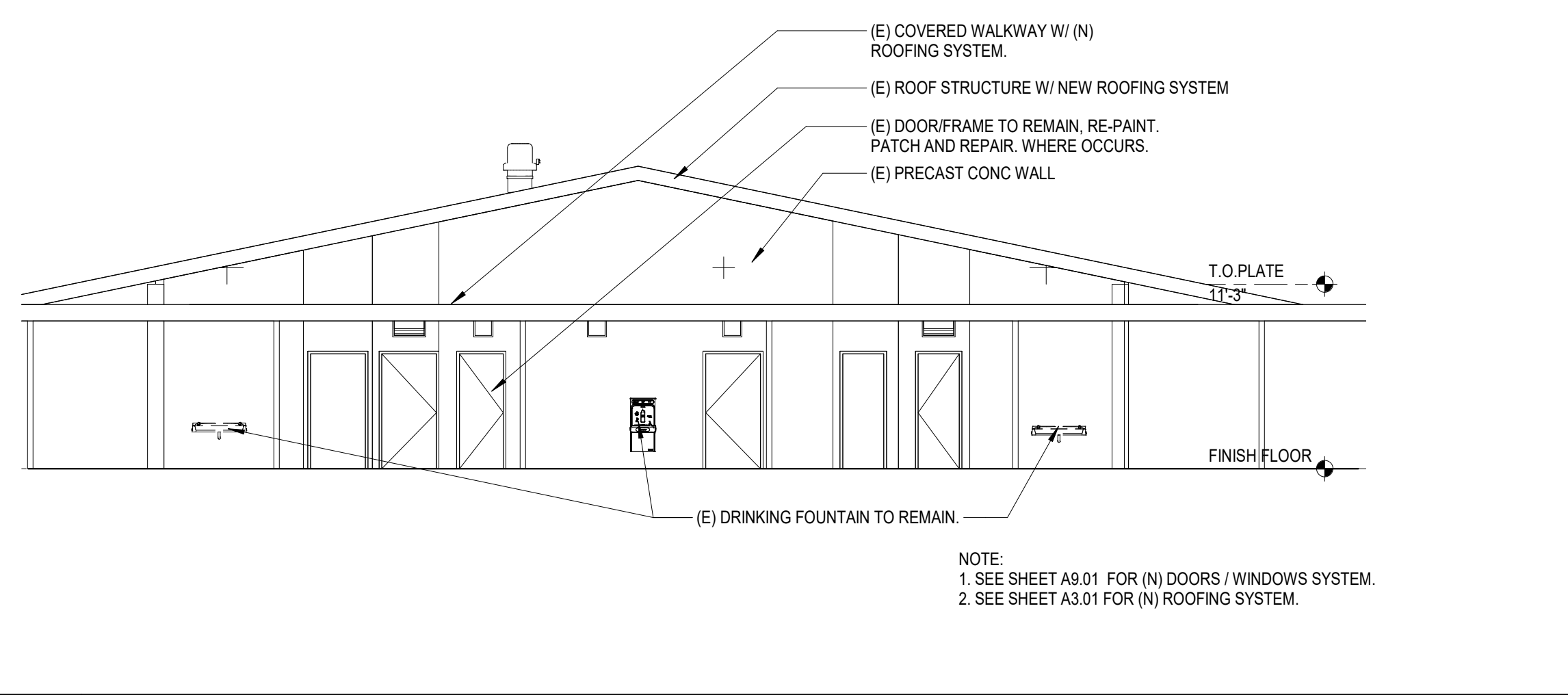
ENLARGED RESTROOM
PLANS & INTERIOR
ELEVATIONS

A5.01

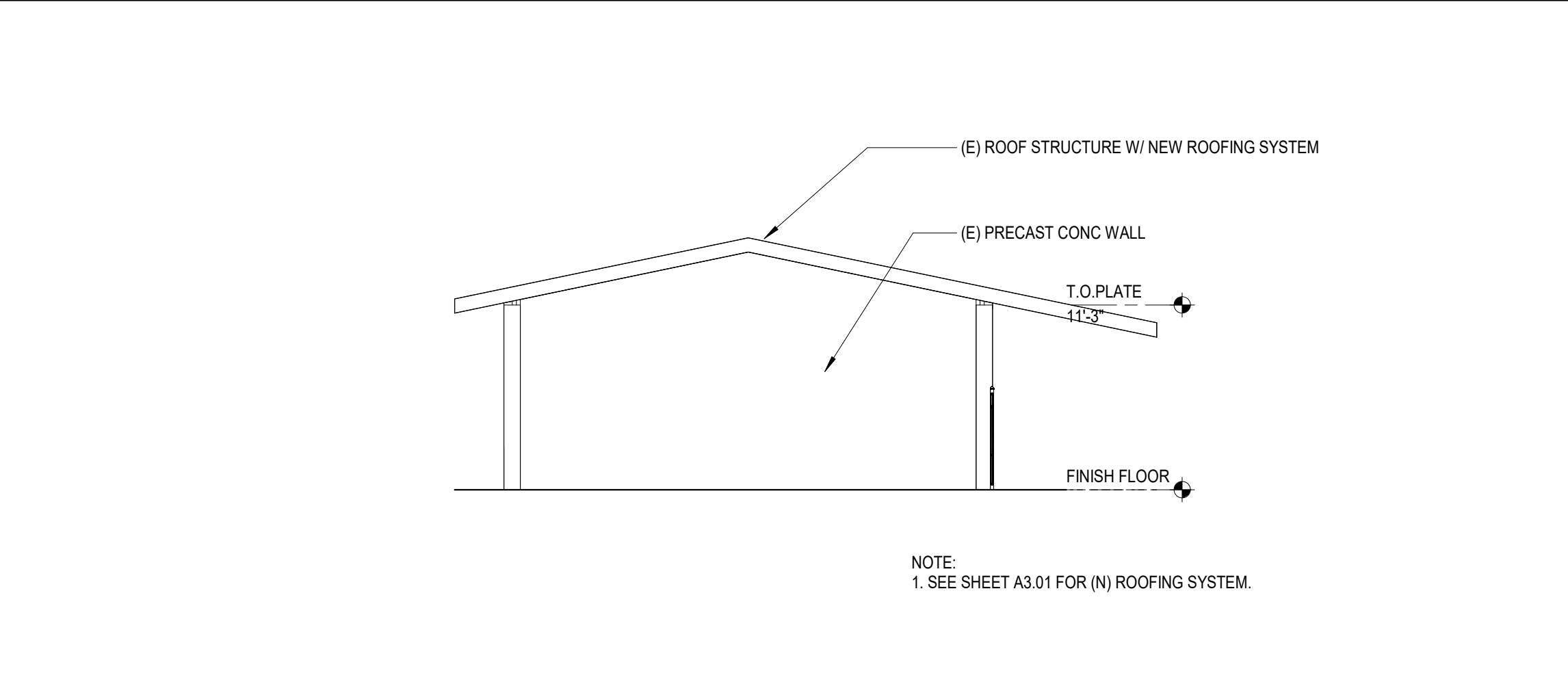
0' 1'



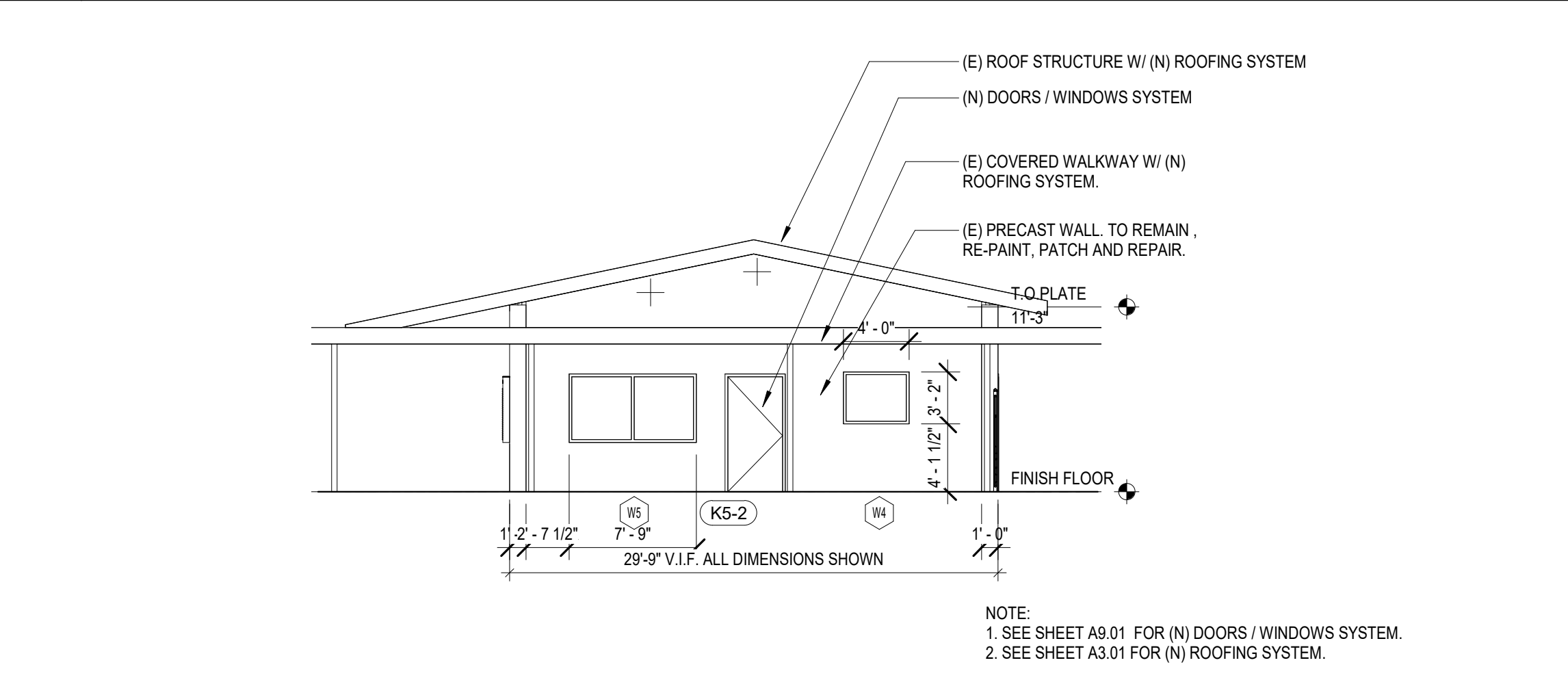
24 BLDG A WEST ELEVATION
1/8" = 1'-0"



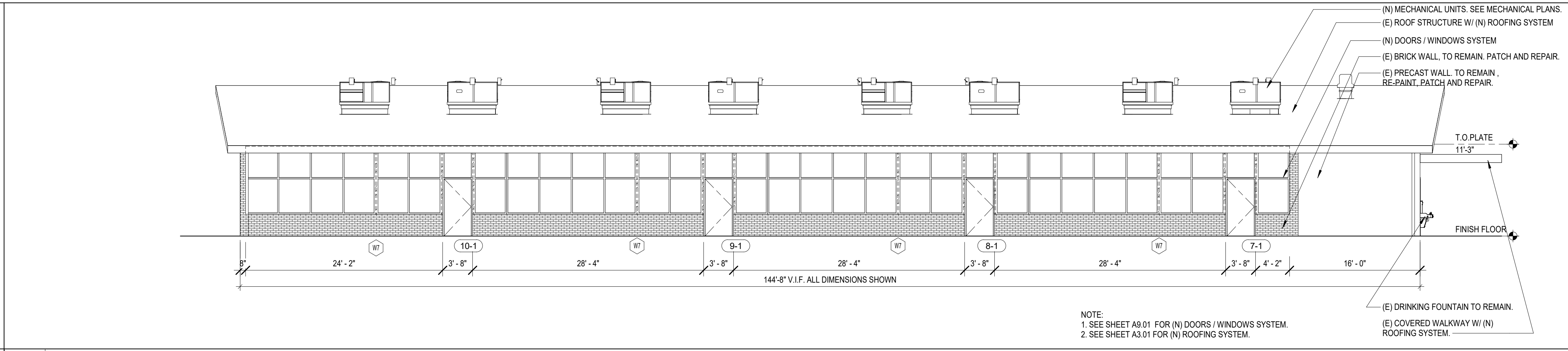
18 BLDG A EAST ELEVATION
1/8" = 1'-0"



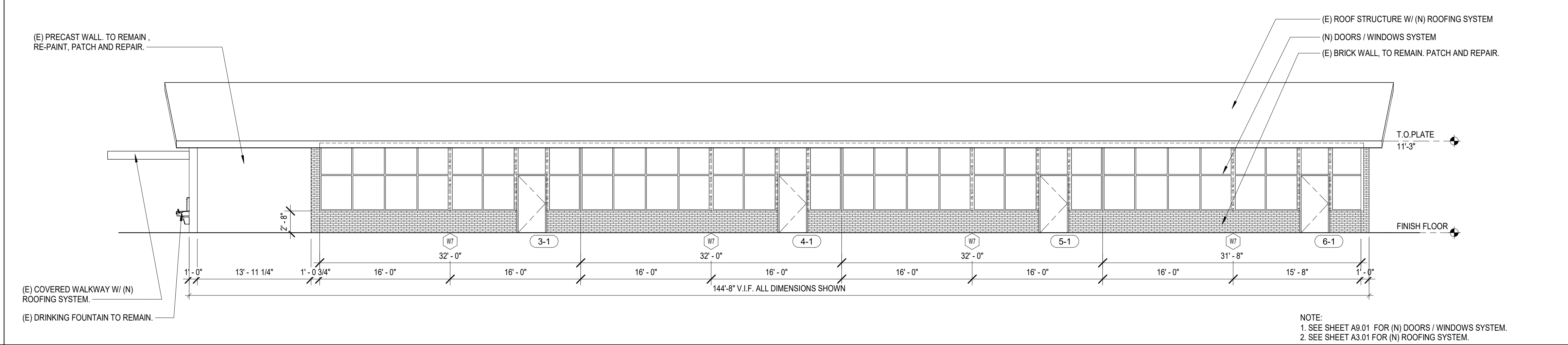
12 BLDG ADMIN WEST ELEVATION
1/8" = 1'-0"



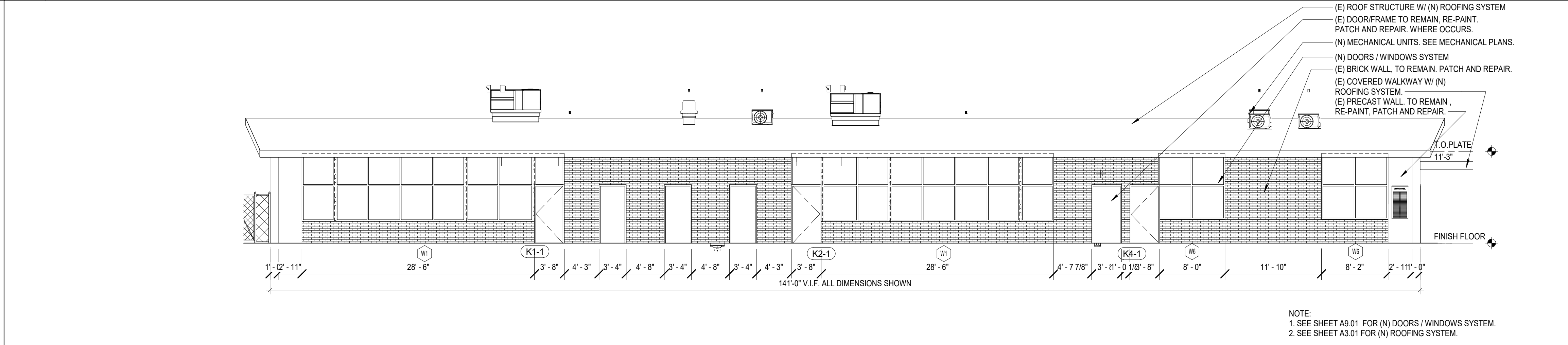
6 BLDG ADMIN EAST ELEVATION
1/8" = 1'-0"



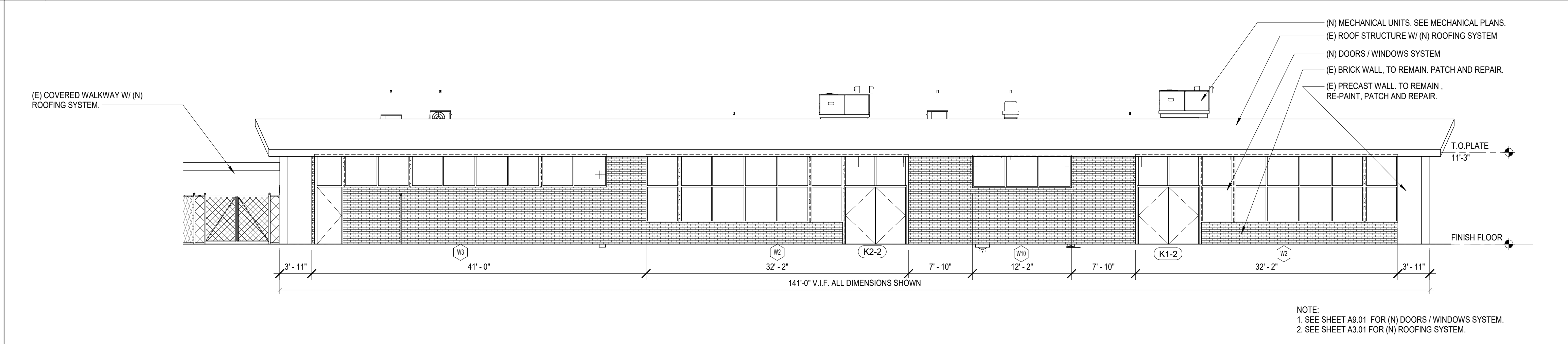
22 BLDG A SOUTH ELEVATION
1/8" = 1'-0"



16 BLDG A NORTH ELEVATION
1/8" = 1'-0"



10 BLDG ADMIN/KINDERGARTEN SOUTH ELEVATION
1/8" = 1'-0"



4 BLDG ADMIN/KINDERGARTEN NORTH ELEVATION
1/8" = 1'-0"

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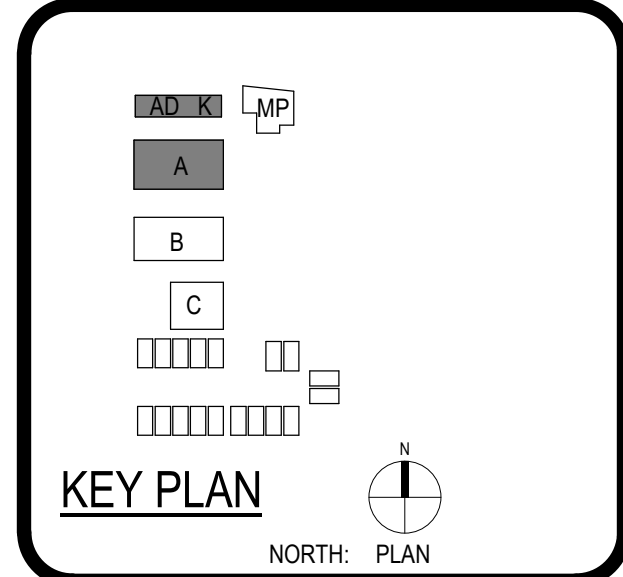
ARCHITECT PBK Architects, Inc.
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2400 E. Katella Ave., Suite 950
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P 949-548-5000

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PROJECT ADDRESS:
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Consultant

Architect
Yong Yoo
No. C-31162
RECEIVED 10-31-2023
STATE OF CALIFORNIA

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EXTERIOR ELEVATIONS

A6.01

0' 1'

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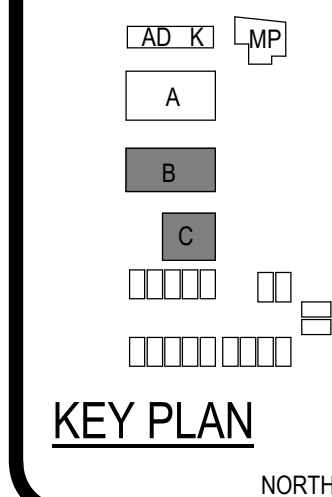
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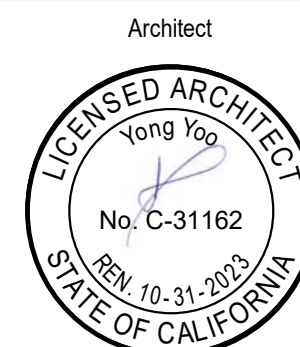
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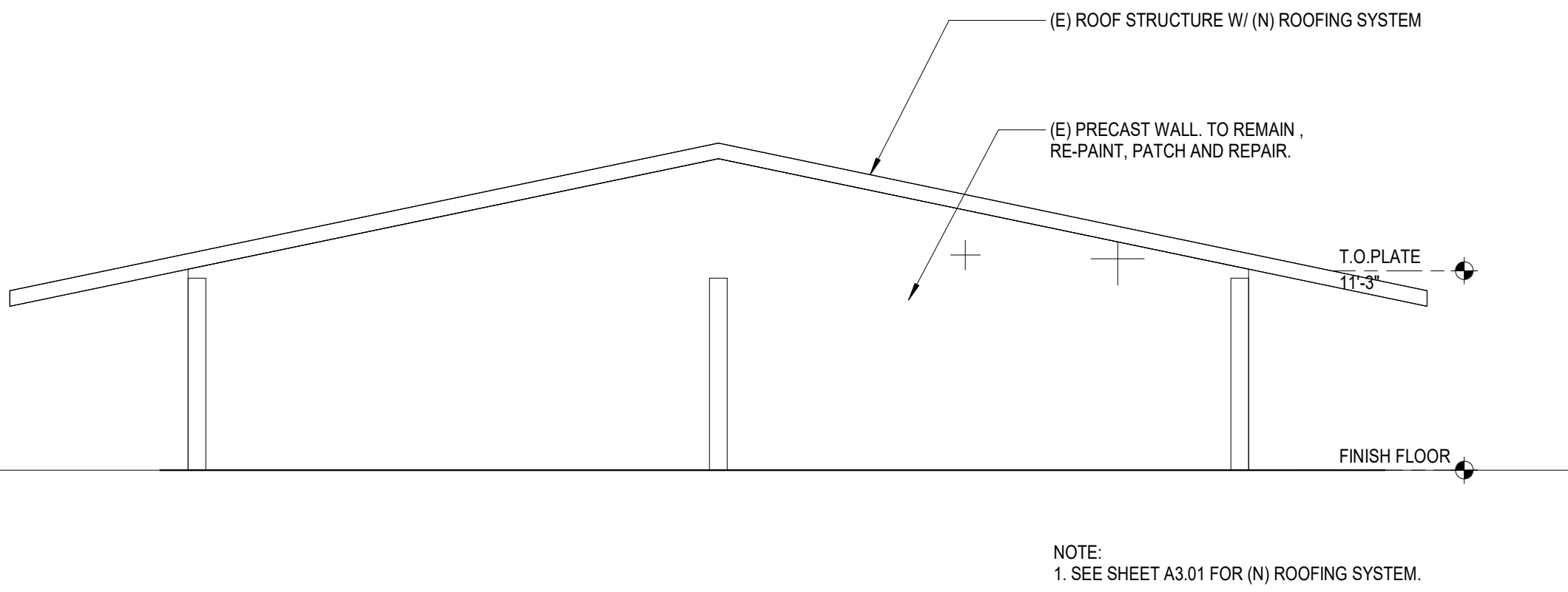
CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-29-2022	220308	
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

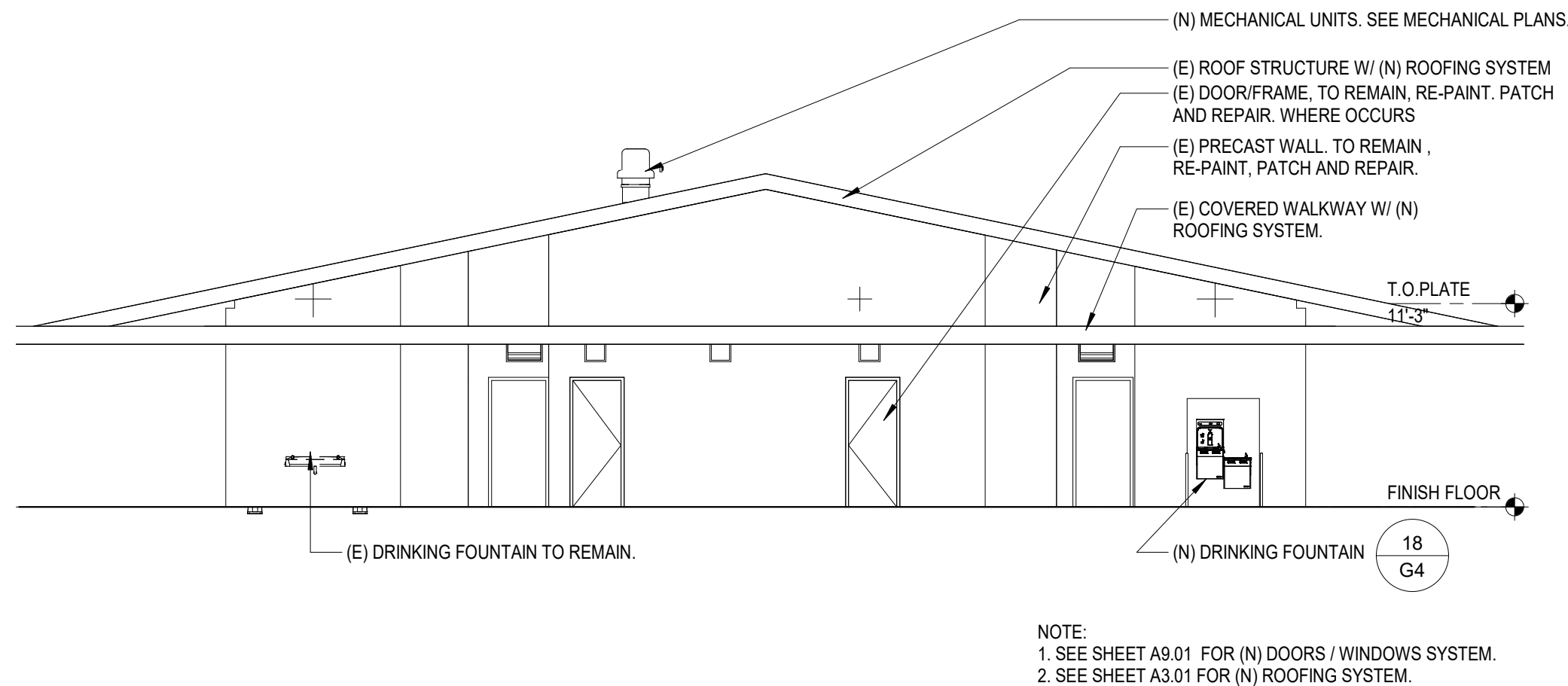
EXTERIOR ELEVATIONS

A6.02

18 BLDG C EAST ELEVATION
1/8" = 1'-0"

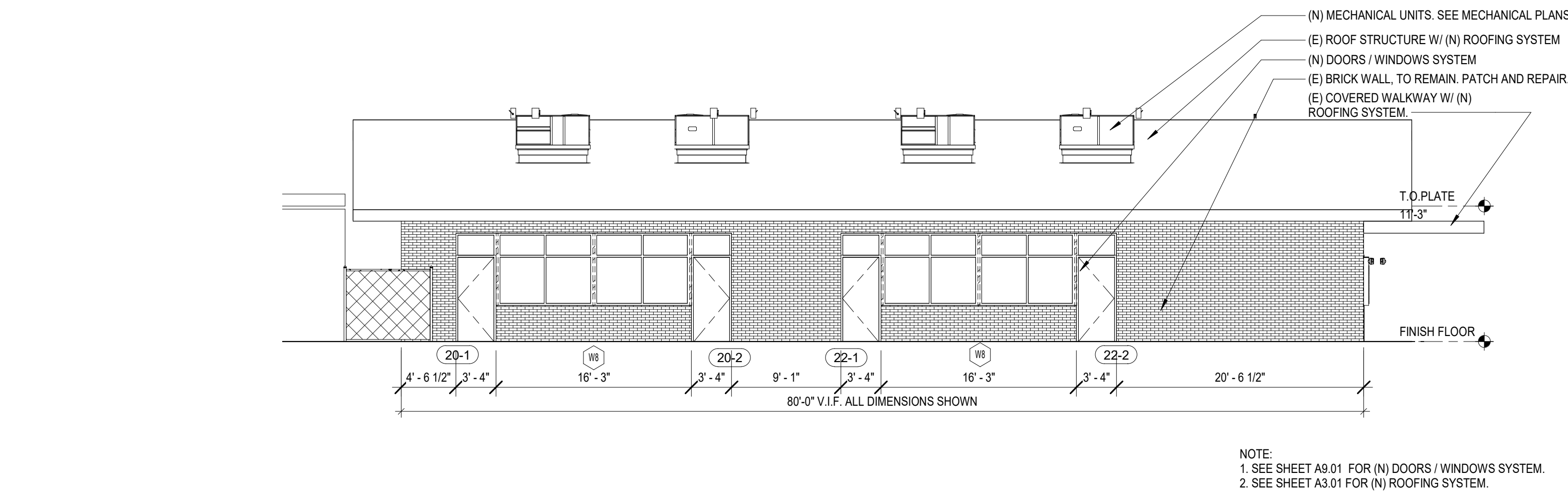


12 BLDG B WEST ELEVATION
1/8" = 1'-0"

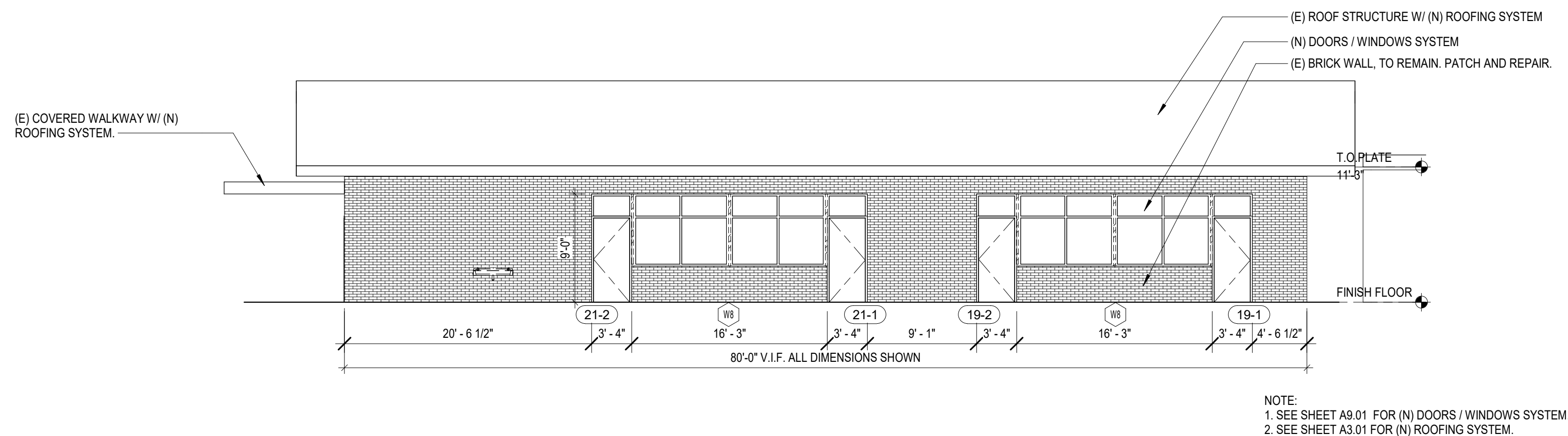


6 BLDG B EAST ELEVATION
1/8" = 1'-0"

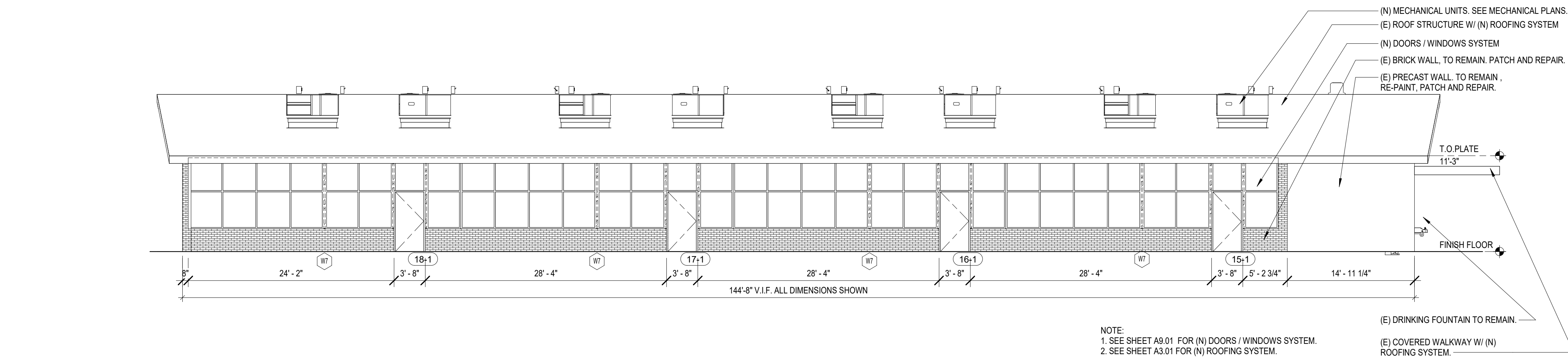
21 BLDG C SOUTH ELEVATION
1/8" = 1'-0"



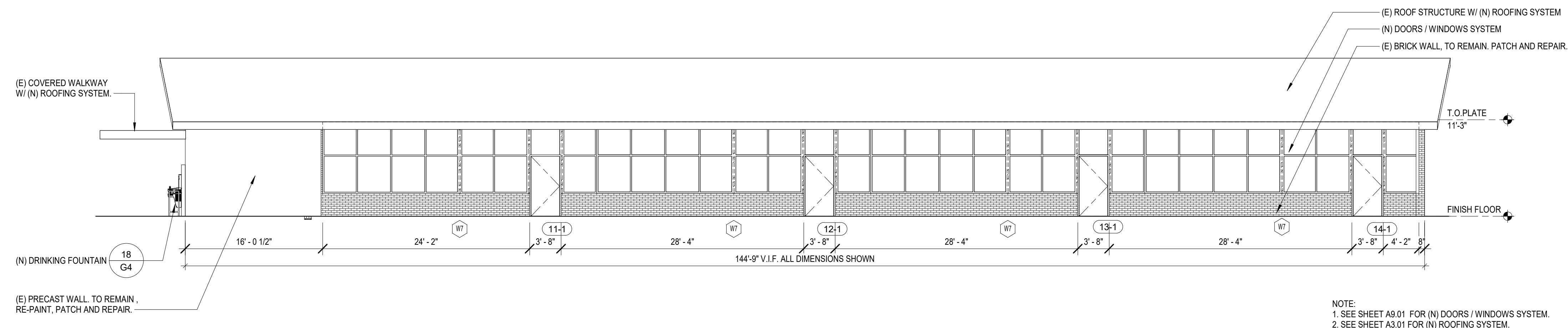
15 BLDG C NORTH ELEVATION
1/8" = 1'-0"

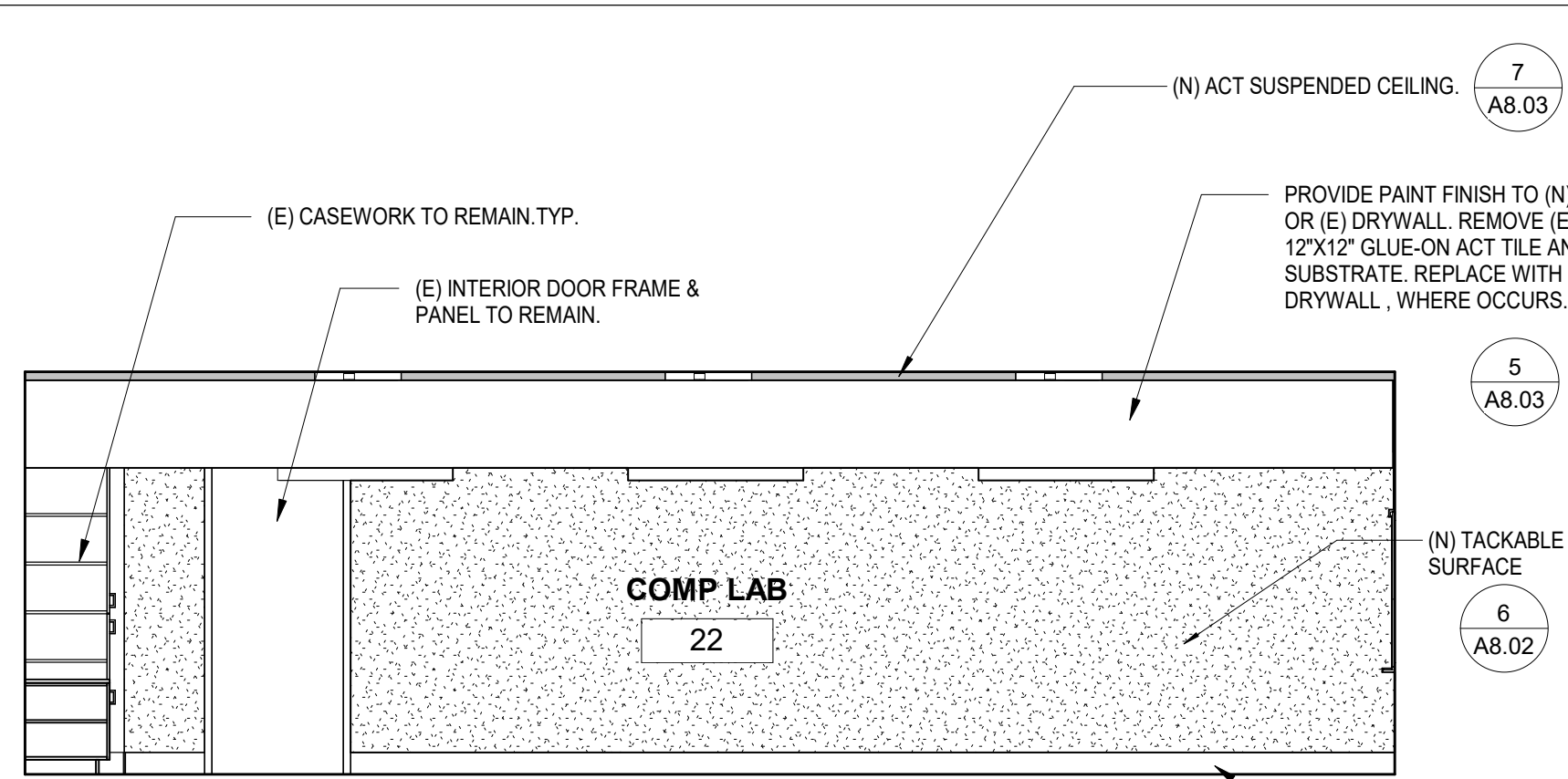
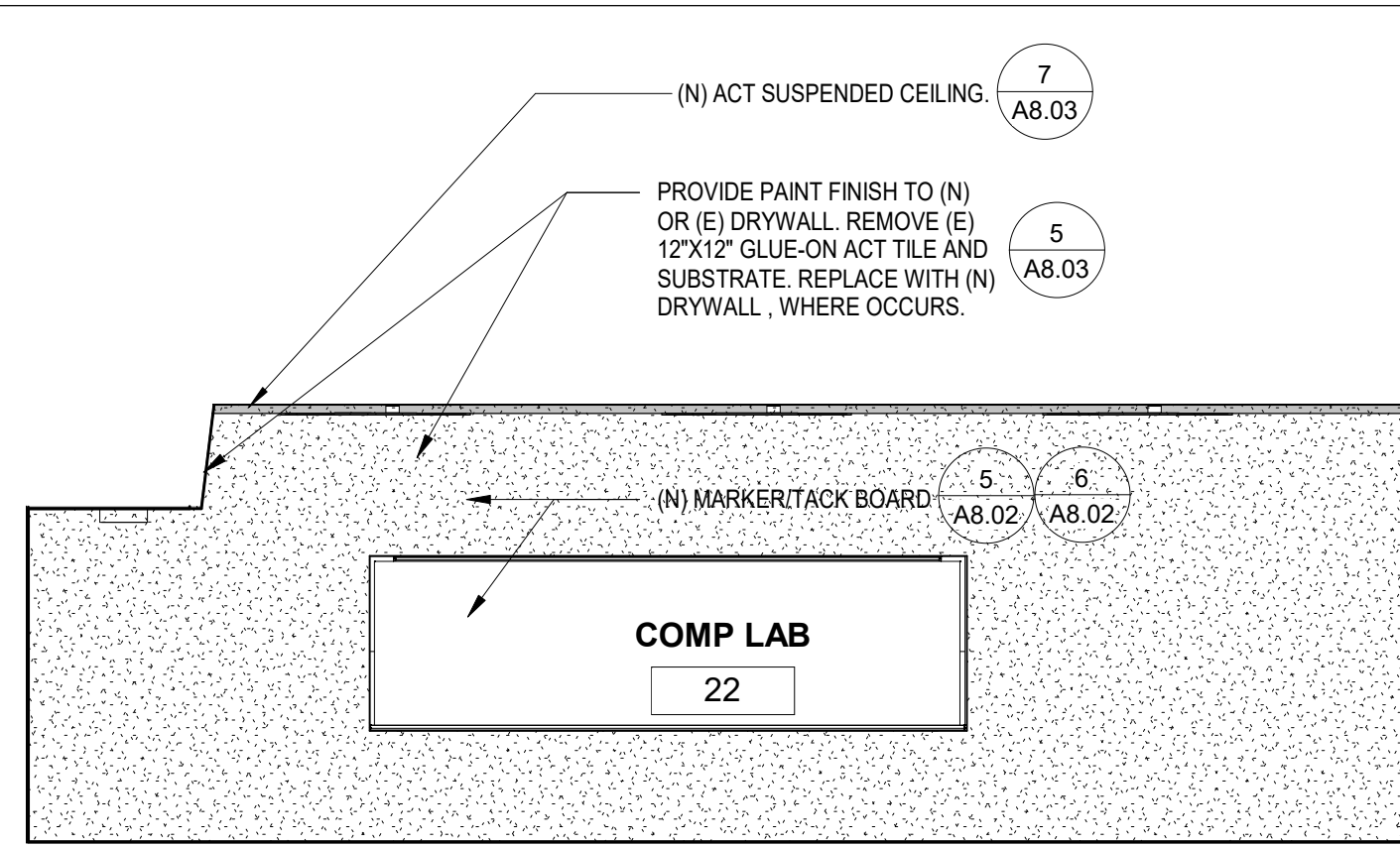
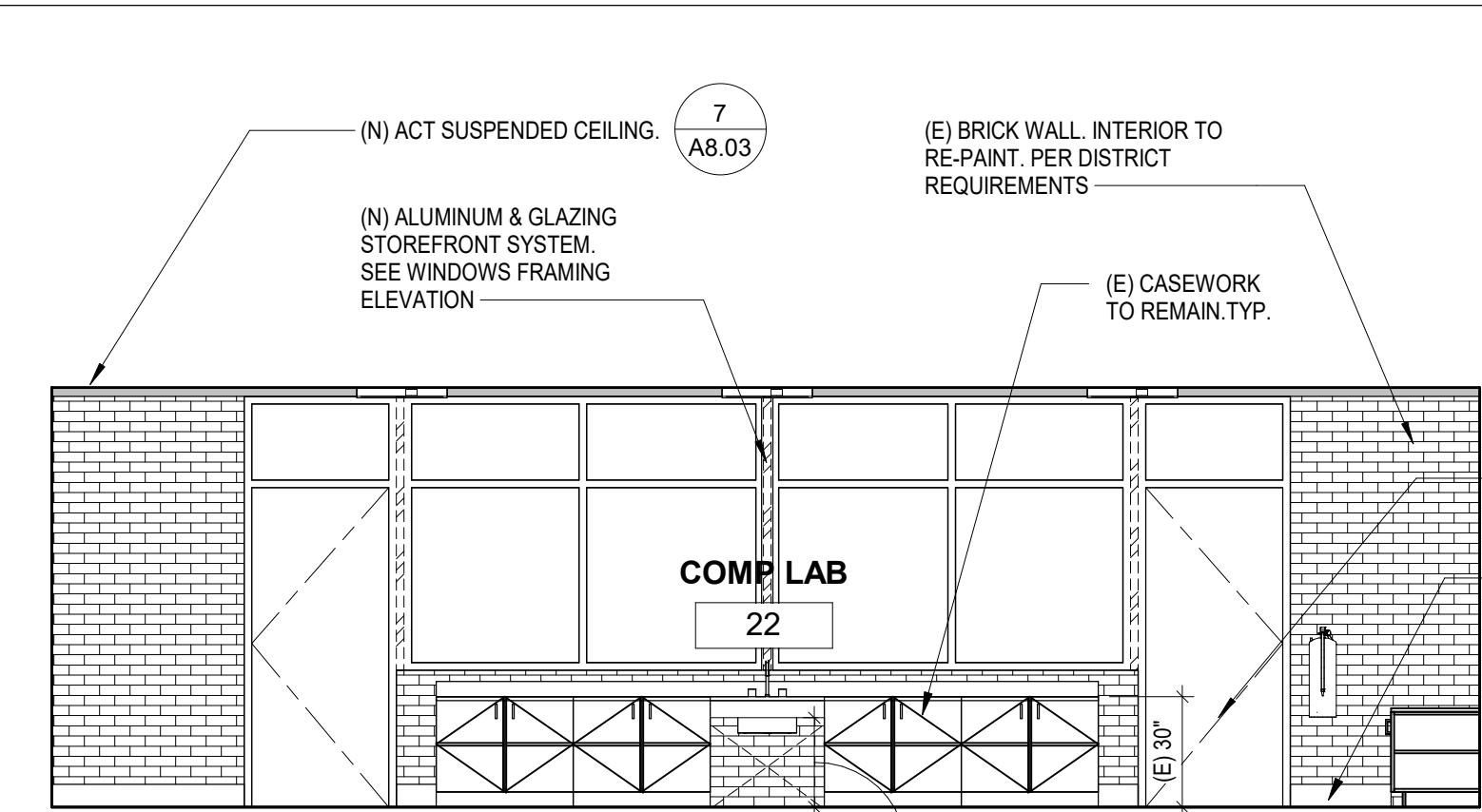
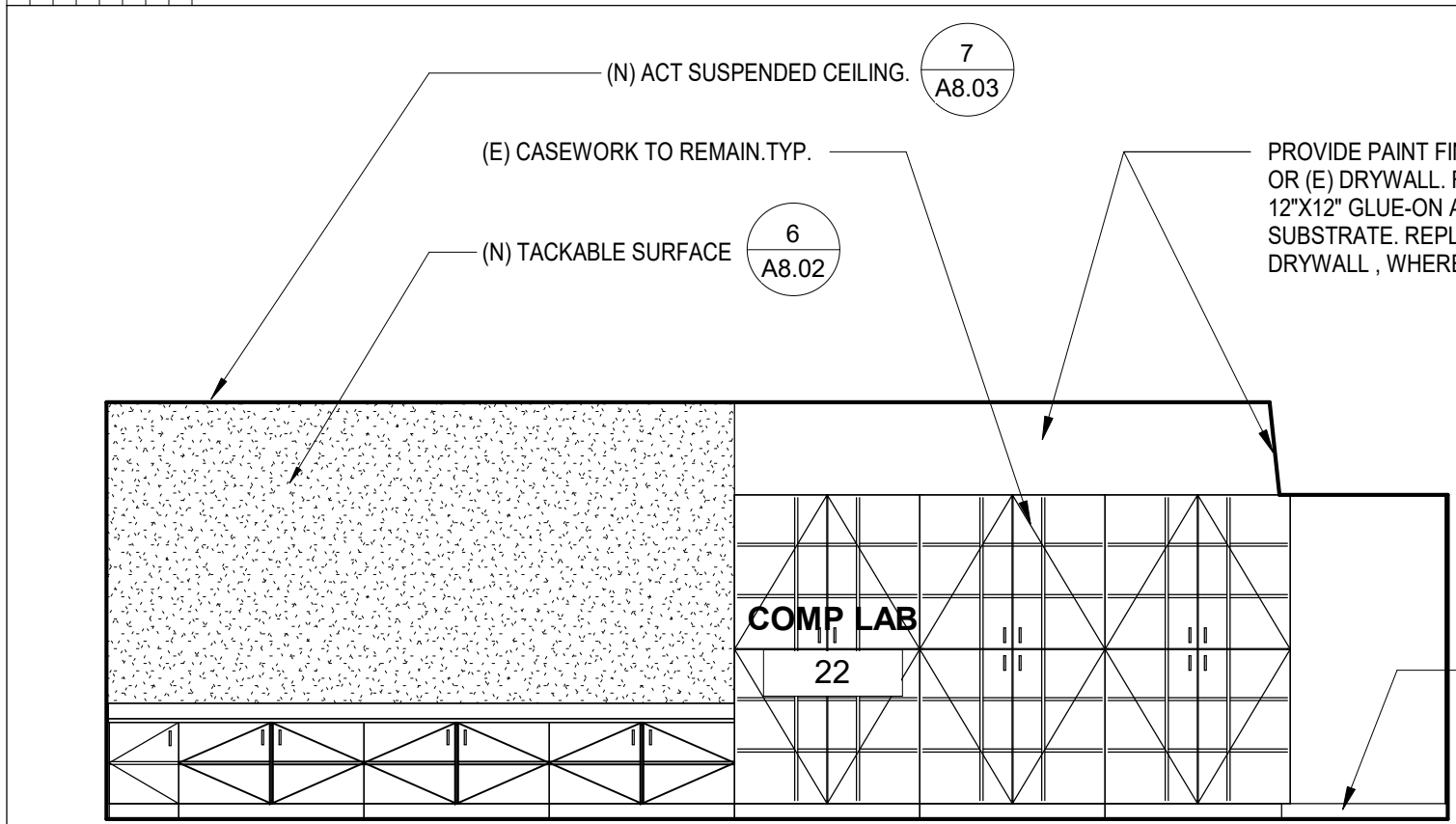


10 BLDG B SOUTH ELEVATION
1/8" = 1'-0"

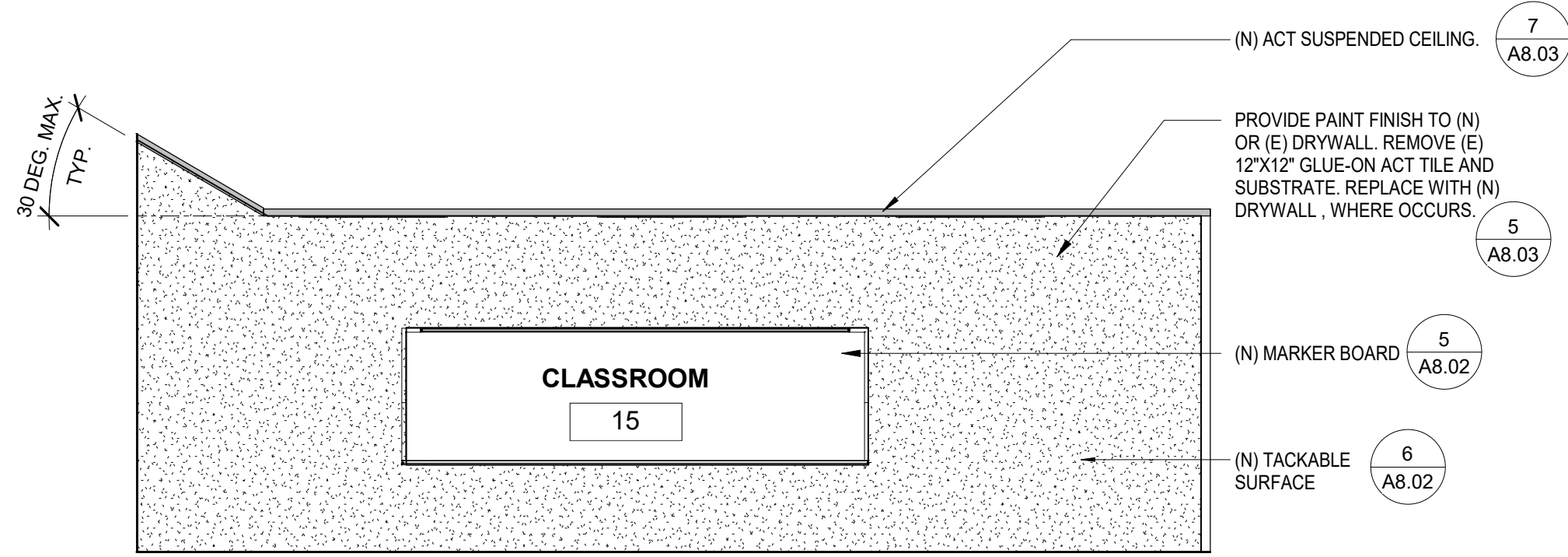


4 BLDG B NORTH ELEVATION
1/8" = 1'-0"

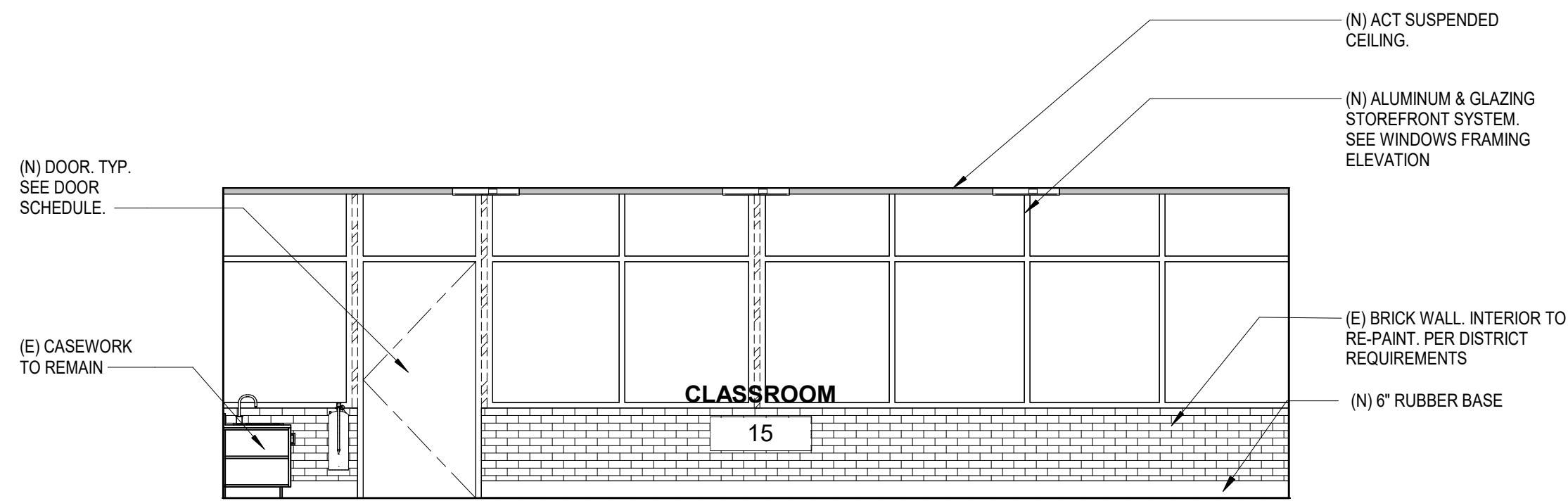




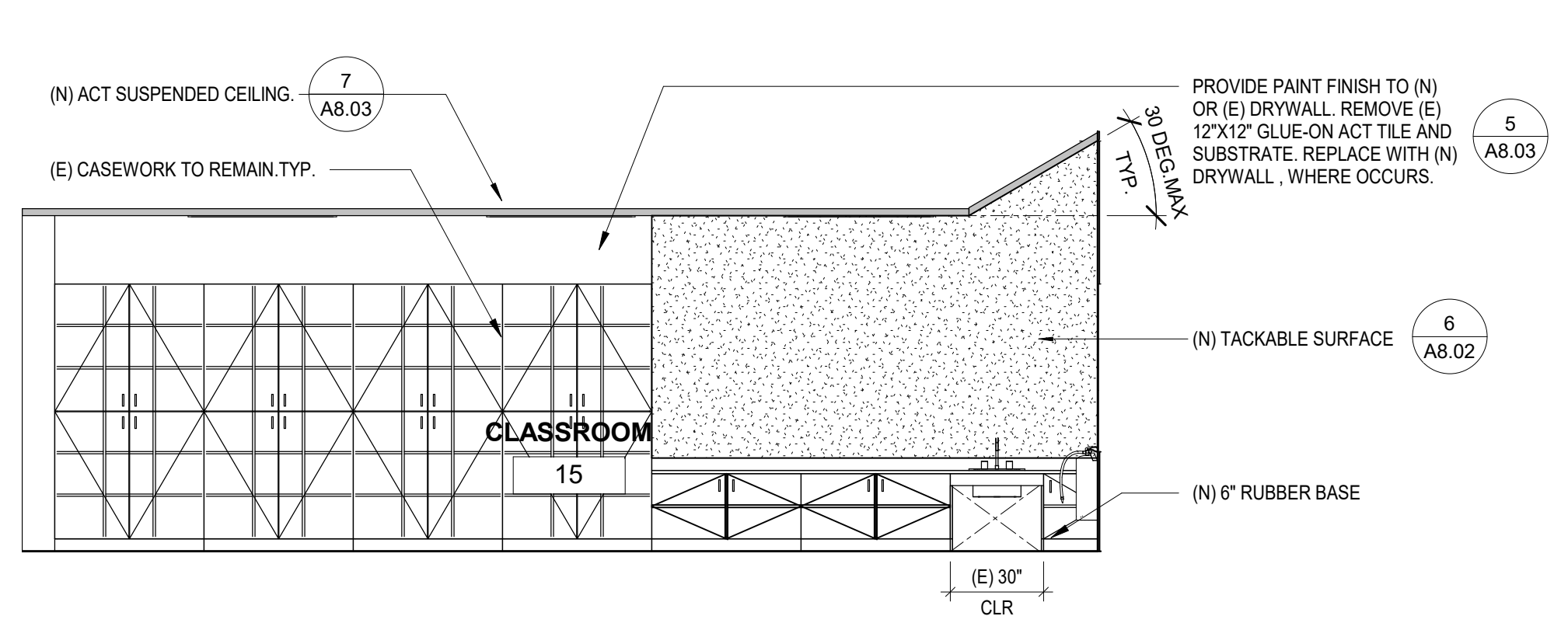
30 TYPICAL CLASSROOM AT BUILDING C - INTERIOR ELEVATIONS (AGES 5-8)
1/4" = 1'-0"



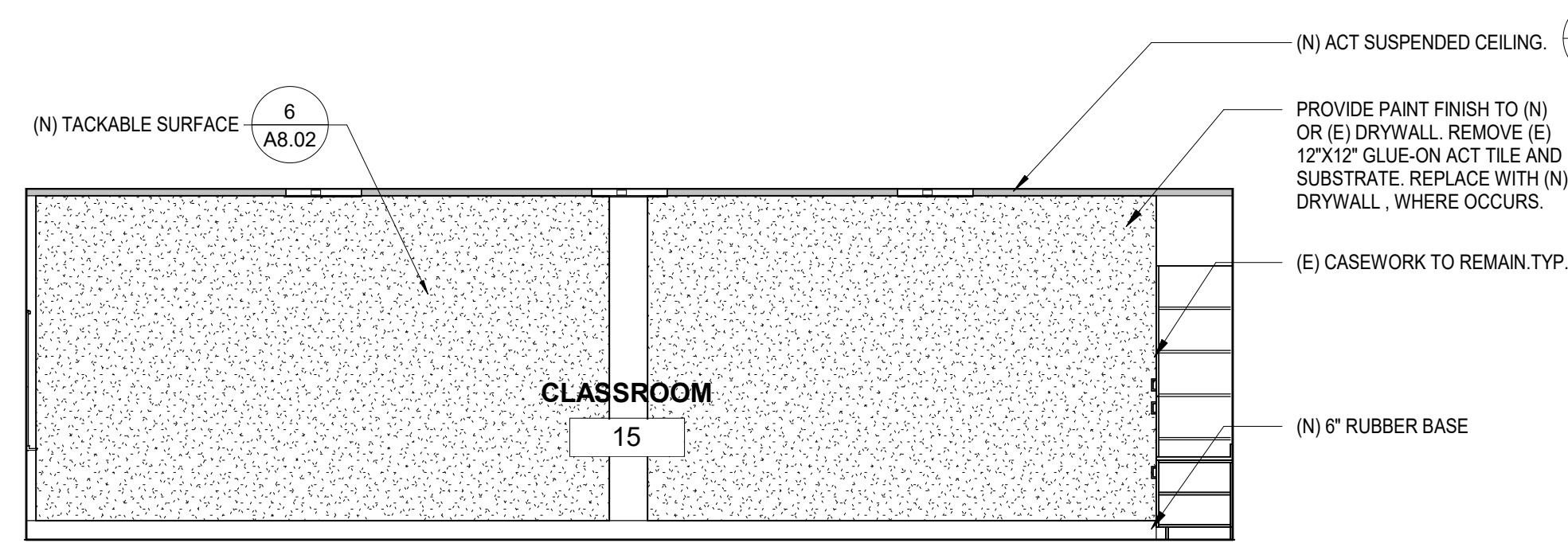
18D TYP. CLASSROOM - WEST INTERIOR ELEVATION
1/4" = 1'-0"



18C TYP. CLASSROOM - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"

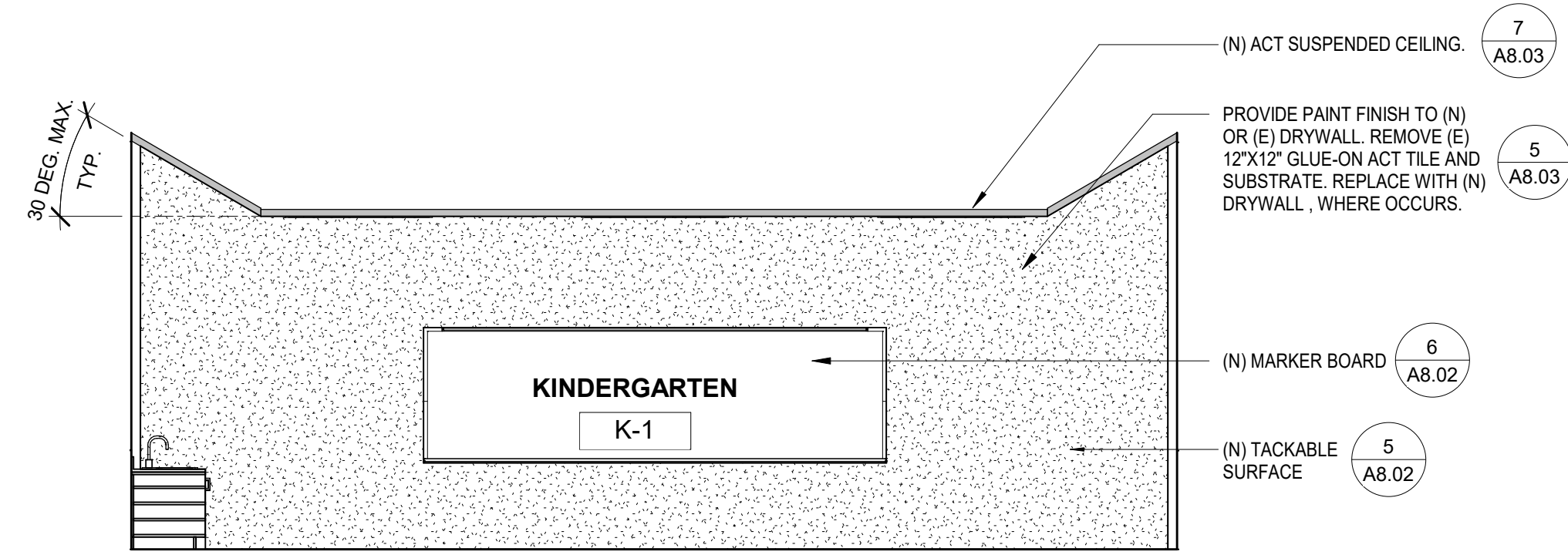


18B TYP. CLASSROOM - EAST INTERIOR ELEVATION
1/4" = 1'-0"

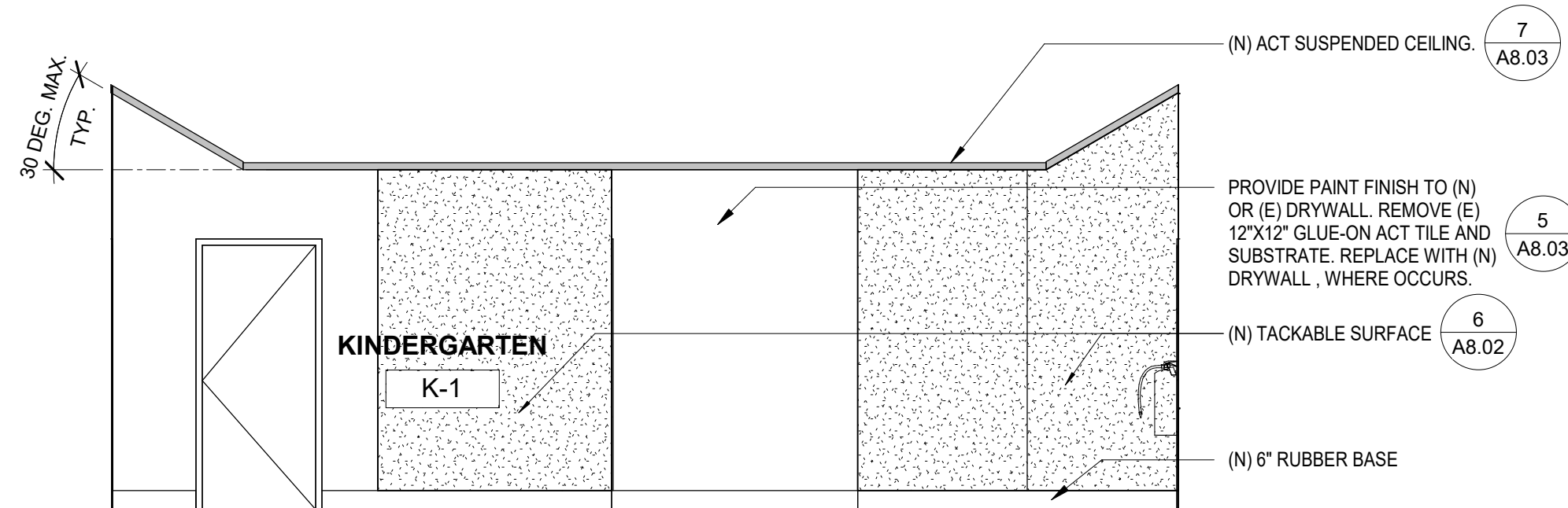


18A TYP. CLASSROOM - NORTH INTERIOR ELEVATION
1/4" = 1'-0"

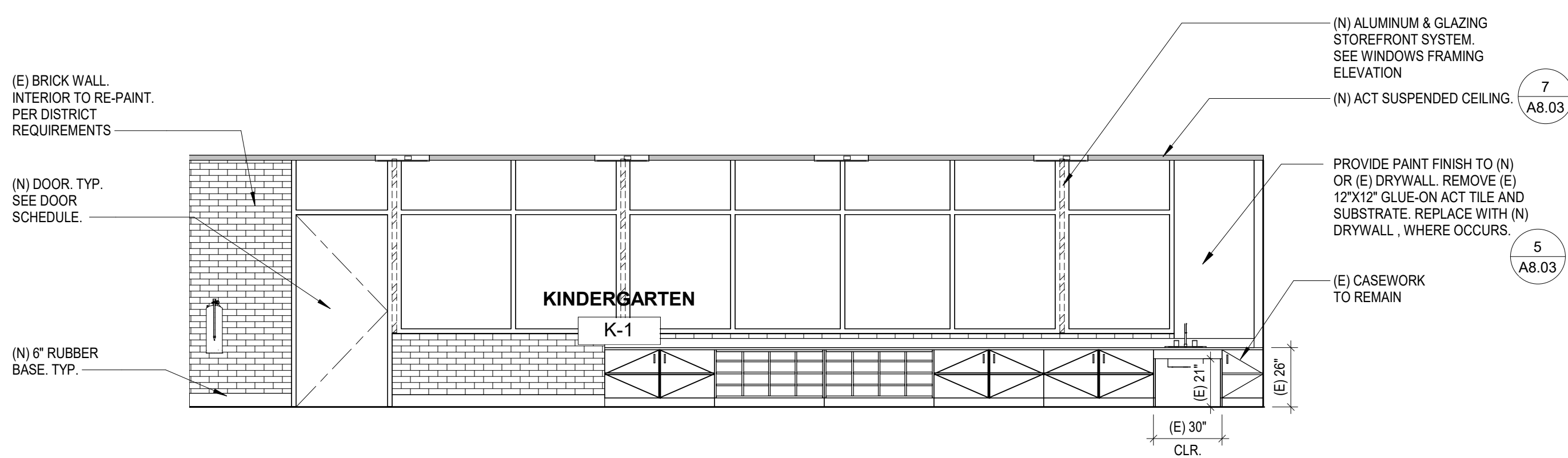
18 TYPICAL CLASSROOM AT BLDG A & B - INTERIOR ELEVATIONS (AGES 5-8)
1/4" = 1'-0"



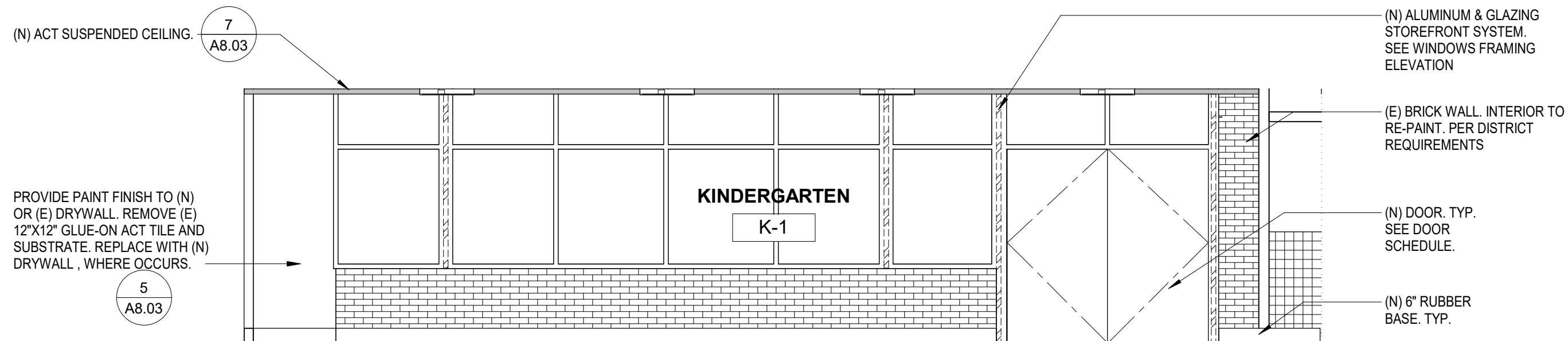
6D K1 - WEST INTERIOR ELEVATION
1/4" = 1'-0"



6B K1 - EAST INTERIOR ELEVATION
1/4" = 1'-0"



6C K1 - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



6A K1 - NORTH INTERIOR ELEVATION
1/4" = 1'-0"

6 KINDERGARTEN K1&K2 - TYP. INTERIOR ELEVATIONS
1/4" = 1'-0"

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PRK

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DSA SUBMITTAL

DSA APPL NO. 04-121817 DSA FILE NO. 30-43



AD K MP

A

B

C

REVISIONS

KEY PLAN

NORTH: PLAN

Consultant



REVISIONS		
No.	Description	Date

DSA SUBMITTAL

INTERIOR ELEVATIONS

A7.01



SCHMITT E.S. HVAC UPGRADE & MODERNIZATION



Consultant

[illegible]

DOORS, WINDOW
FRAME DETAILS

A8.01

18 WALL MOUNT FIRE EXTINGUISHER
1 1/2" = 1'-0"

CHARACTER REQUIREMENTS:

A. CHARACTER REQUIREMENTS FOR ALL SIGNS PER 2019 CBC 11B-703:

- 3 CHARACTERS SHALL BE UPPERCASE
- CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
- CHARACTER SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
- SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.
- TEXT SHALL BE IN HORIZONTAL FORM.
- CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND CONTRAST WITH ONE ANOTHER.

B. RAISED CHARACTER REQUIREMENTS FOR SIGNS WITH BRAILLE PER 2019 CBC 11B-703.2:

- RAISED CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH A ABOVE
- RAISED CHARACTERS SHALL BE 1/32 INCH MIN ABOVE BACKGROUND.
- RAISED CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/32 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
- STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
- CHARACTER SPACING BETWEEN INDIVIDUAL RAISED LETTERS SHALL BE 1/8 INCH MINIMUM AND FOUR (4) TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.

C. VISUAL CHARACTER REQUIREMENTS FOR SIGNS WITHOUT BRAILLE PER 2019 CBC 11B-703.5:

- VISUAL CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH A ABOVE
- MINIMUM CHARACTER HEIGHT SHALL CONFORM TO 2019 CBC TABLE 11B-703.5.5 BUT IN NO CASE SHALL BE LESS THAN 5/8 INCH.
- HEIGHT FROM FINISH FLOOR SHALL BE NO LESS THAN 40 INCHES.
- STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
- SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.
- SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135% MIN. AND 170% MAX. OF THE CHARACTER HEIGHT.

CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS

CHARACTER WIDTH (UPPERCASE LETTER "O")	CHARACTER HEIGHT (UPPERCASE LETTER "I")
1:1 MAX 110%	3:20 MAX 15%
3:5 MIN 60%	1:5 MAX 20%
1:1 MIN 10%	1:10 MIN 10%

12 CHARACTER REQ. FOR SIGNAGE
1" = 1'-0"

CEILING HEIGHT (TRANSOM WINDOW SILL)

(N) / (E) WOOD STUD WALL

(N) / (E) 5/8" GYP BOARD

ADHESIVELY SECURED, PER MANUFACTURERS DETAIL

VINYL FABRIC COVER 1/4" CORK BOARD

FLOOR LEVEL

TACKBOARD ON GYP BD WOOD FRAMING WALL

CEILING HEIGHT (TRANSOM WINDOW SILL)

(E) BRICK WALL

ADHESIVELY SECURED, PER MANUFACTURERS DETAIL

VINYL FABRIC COVER 1/4" CORK BOARD

FLOOR LEVEL

TACKBOARD ON (E) BRICK WALL

6 TACKBOARD DETAIL
3" = 1'-0"

5 MARKERBOARD DETAIL
3" = 1'-0"

4 ROOM IDENTIFICATION SIGN MOUNTING
3" = 1'-0"

11 BRAILLE STANDARDS FOR SIGNAGE
6" = 1'-0"

17 OCCUPANT LOAD SIGN
3" = 1'-0"

16 TACTILE EXIT SIGNS
3" = 1'-0"

29 ACCESSIBLE ROUTE SIGN
6" = 1'-0"

28 RESTROOM SIGNAGE
1/2" = 1'-0"

27 GRAB BAR MOUNT
3" = 1'-0"

26 DOOR INFILL DETAIL
1/2" = 1'-0"

21 TYPICAL TILE WALL BASE
6" = 1'-0"

20 TOP CONNECTION - PERPENDICULAR
1 1/2" = 1'-0"

19 ROOM IDENTIFICATION SIGNAGE
1 1/2" = 1'-0"

14 TOP CONNECTION - PARALLEL
1 1/2" = 1'-0"

13 (N) WALL TO (E) BRICK WALL
3" = 1'-0"

25 ACCESSIBLE
6" = 1'-0"

24 RESTROOM DOOR & WALL SIGNS
1 1/2" = 1'-0"

23 ASSISTIVE LISTENING SIGNAGE
3" = 1'-0"

22 TYP. ROOM ID SIGN
6" = 1'-0"

21 TYPICAL TILE WALL BASE
6" = 1'-0"

20 TOP CONNECTION - PERPENDICULAR
1 1/2" = 1'-0"

19 ROOM IDENTIFICATION SIGNAGE
1 1/2" = 1'-0"

18 WALL MOUNT FIRE EXTINGUISHER
1 1/2" = 1'-0"

17 OCCUPANT LOAD SIGN
3" = 1'-0"

16 TACTILE EXIT SIGNS
3" = 1'-0"

15 TILE FINISH ELEVATION
1/2" = 1'-0"

14 TOP CONNECTION - PARALLEL
1 1/2" = 1'-0"

13 (N) WALL TO (E) BRICK WALL
3" = 1'-0"

12 CHARACTER REQ. FOR SIGNAGE
1" = 1'-0"

11 BRAILLE STANDARDS FOR SIGNAGE
6" = 1'-0"

10 ACCESSIBLE ROUTE SIGN
6" = 1'-0"

9 MARKERBOARD DETAIL
3" = 1'-0"

8 ROOM IDENTIFICATION SIGN MOUNTING
3" = 1'-0"

7 C- PARTITION TYPE (WALL FURRING)
3" = 1'-0"

6 B- PARTITION TYPE
3" = 1'-0"

5 A- PARTITION TYPE
3" = 1'-0"



AD K1 MP

A

B

C

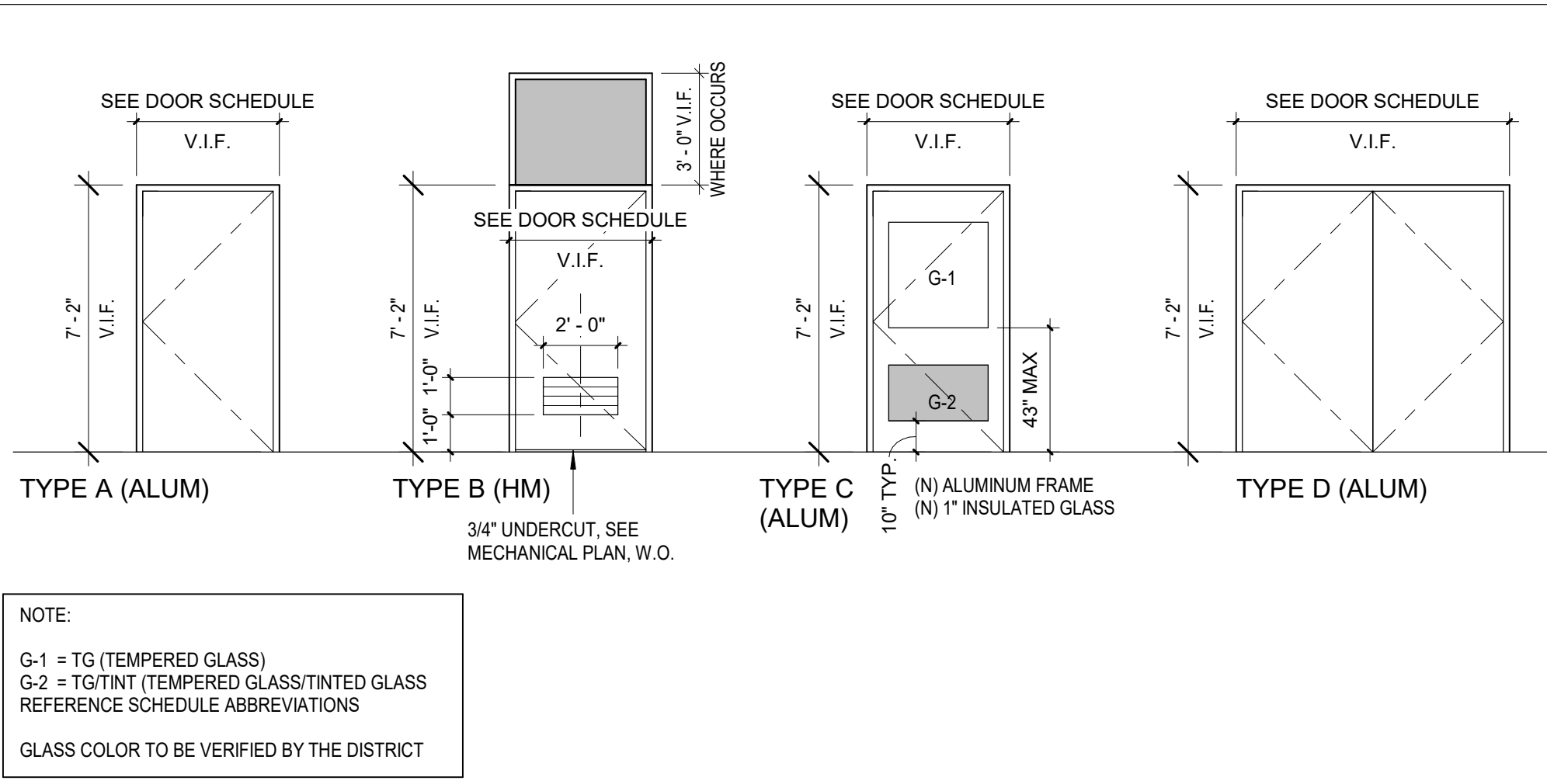
KEY PLAN

NORTH: PLAN

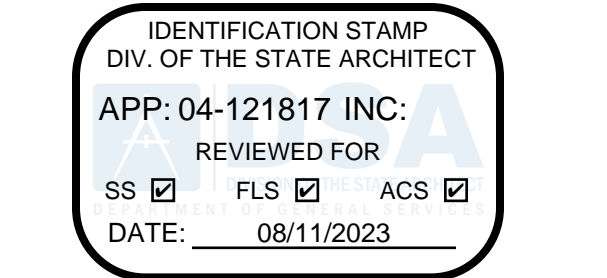
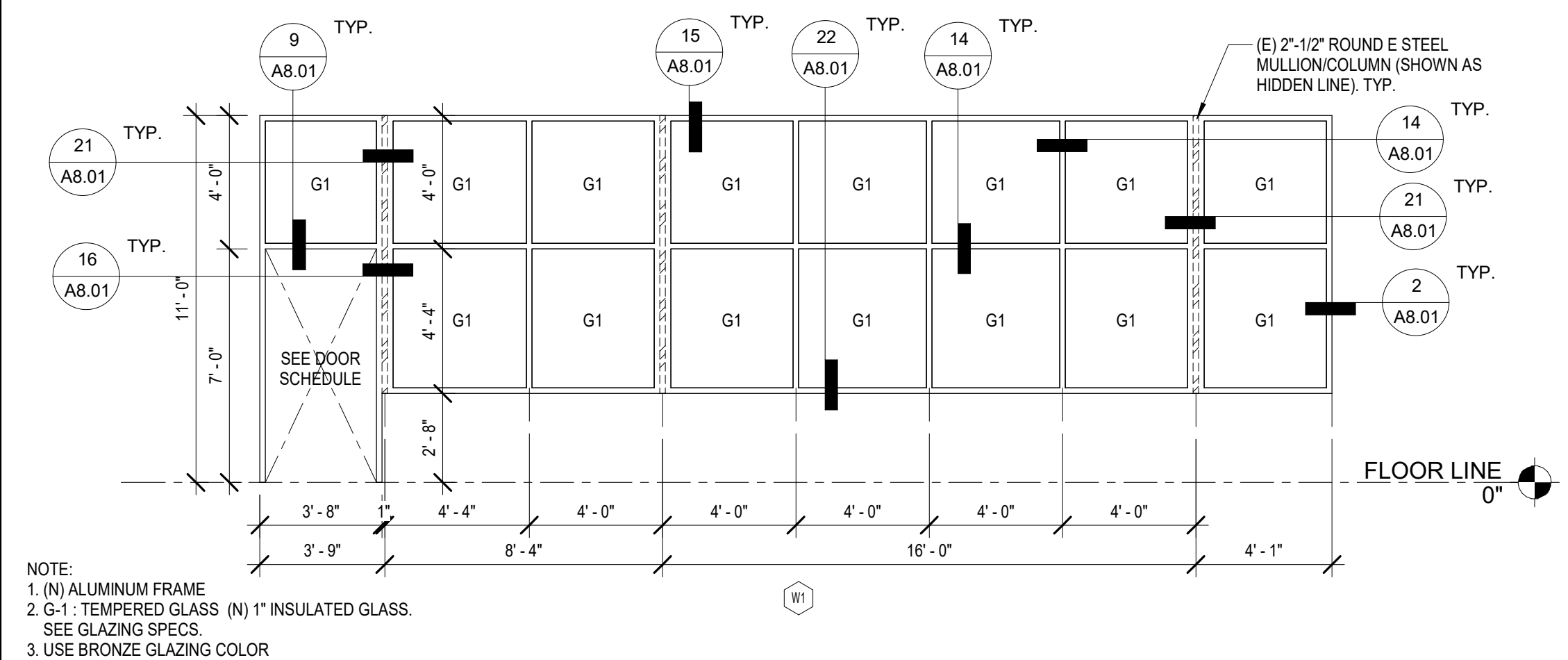
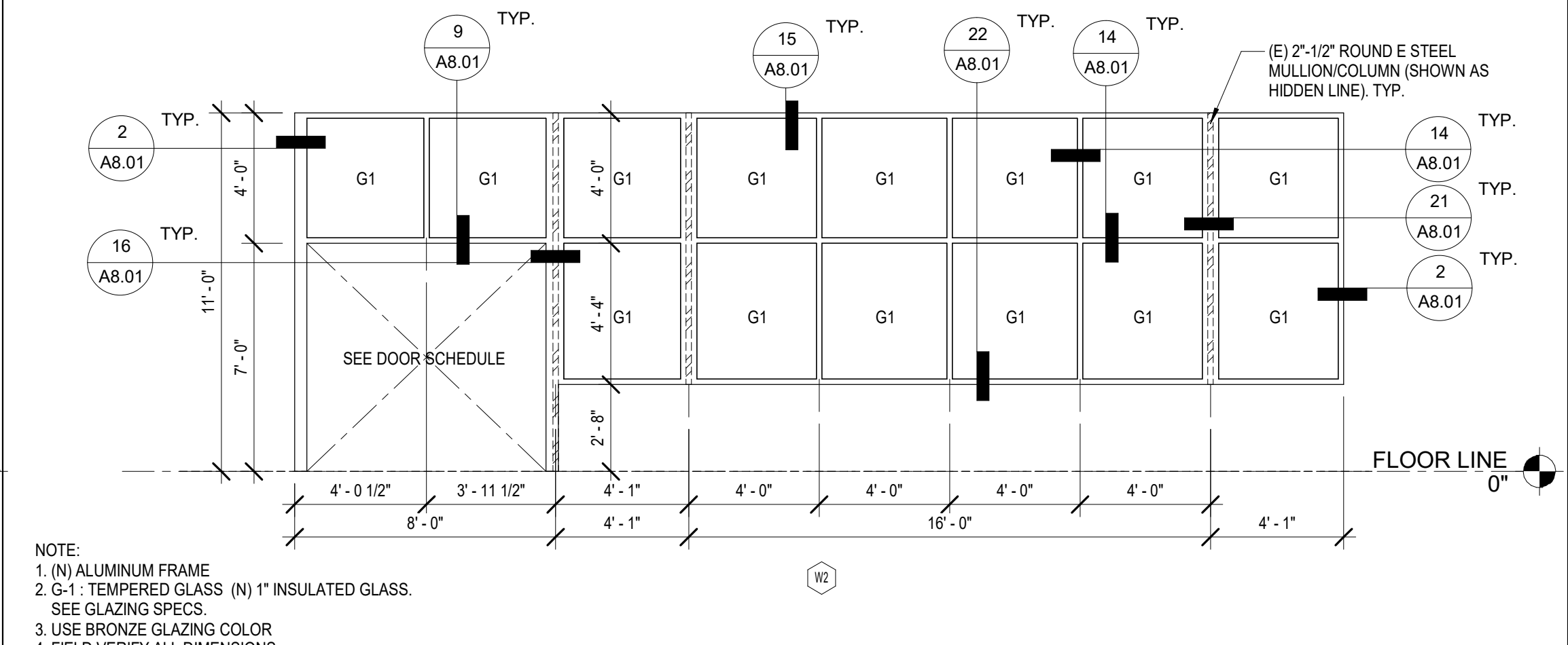
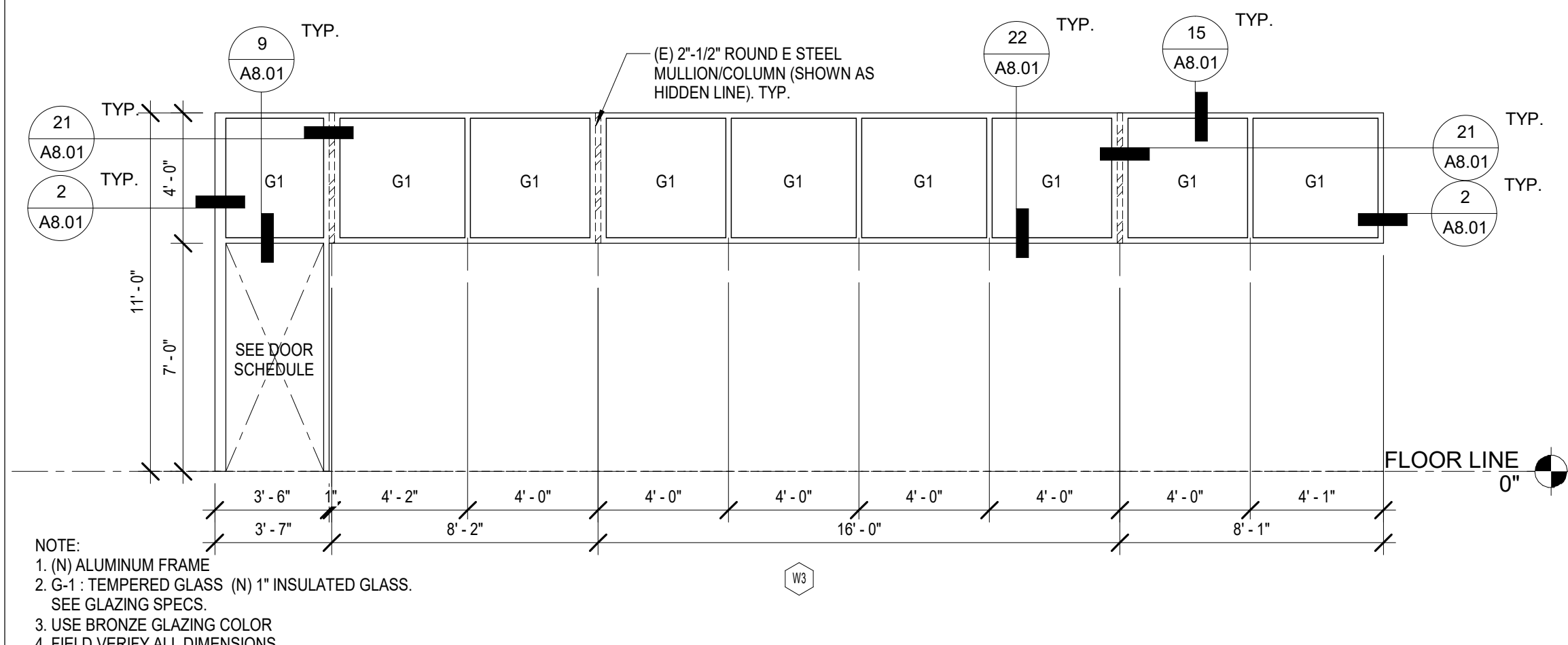
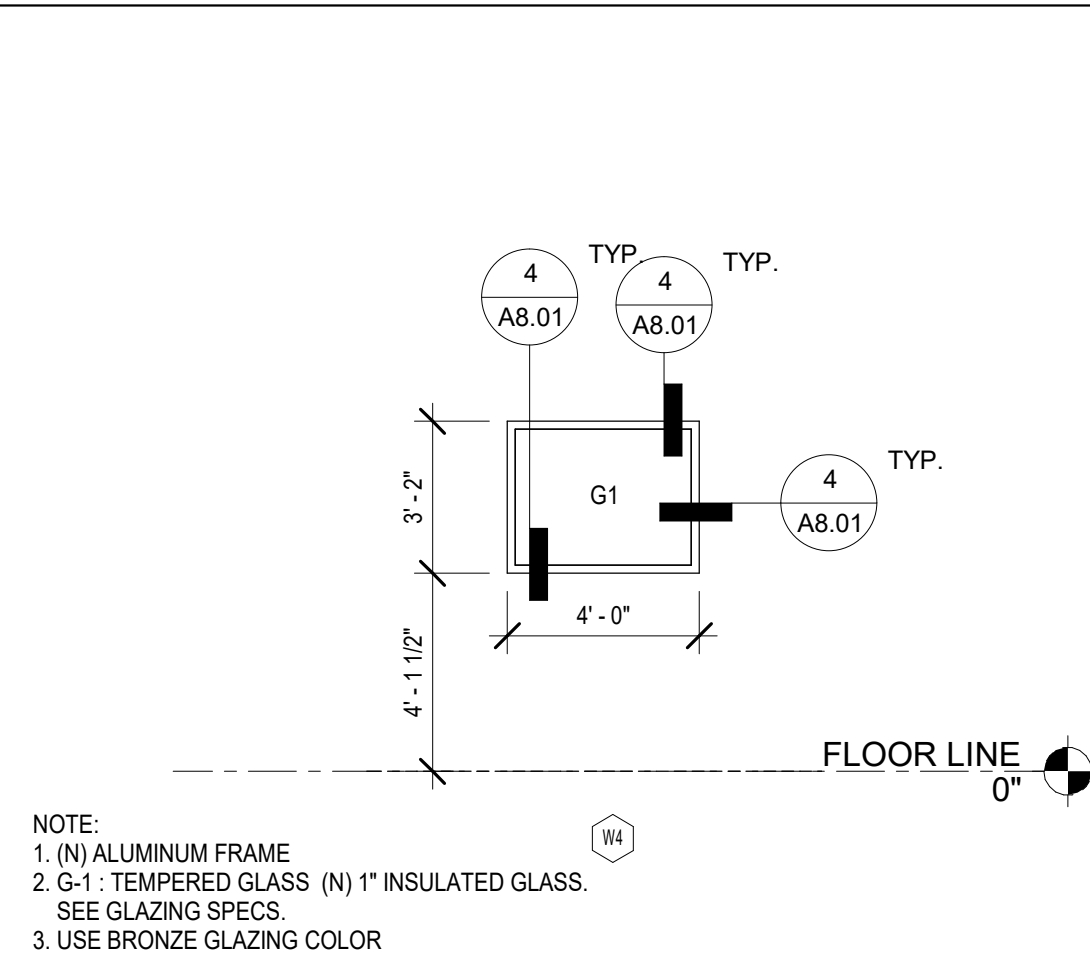
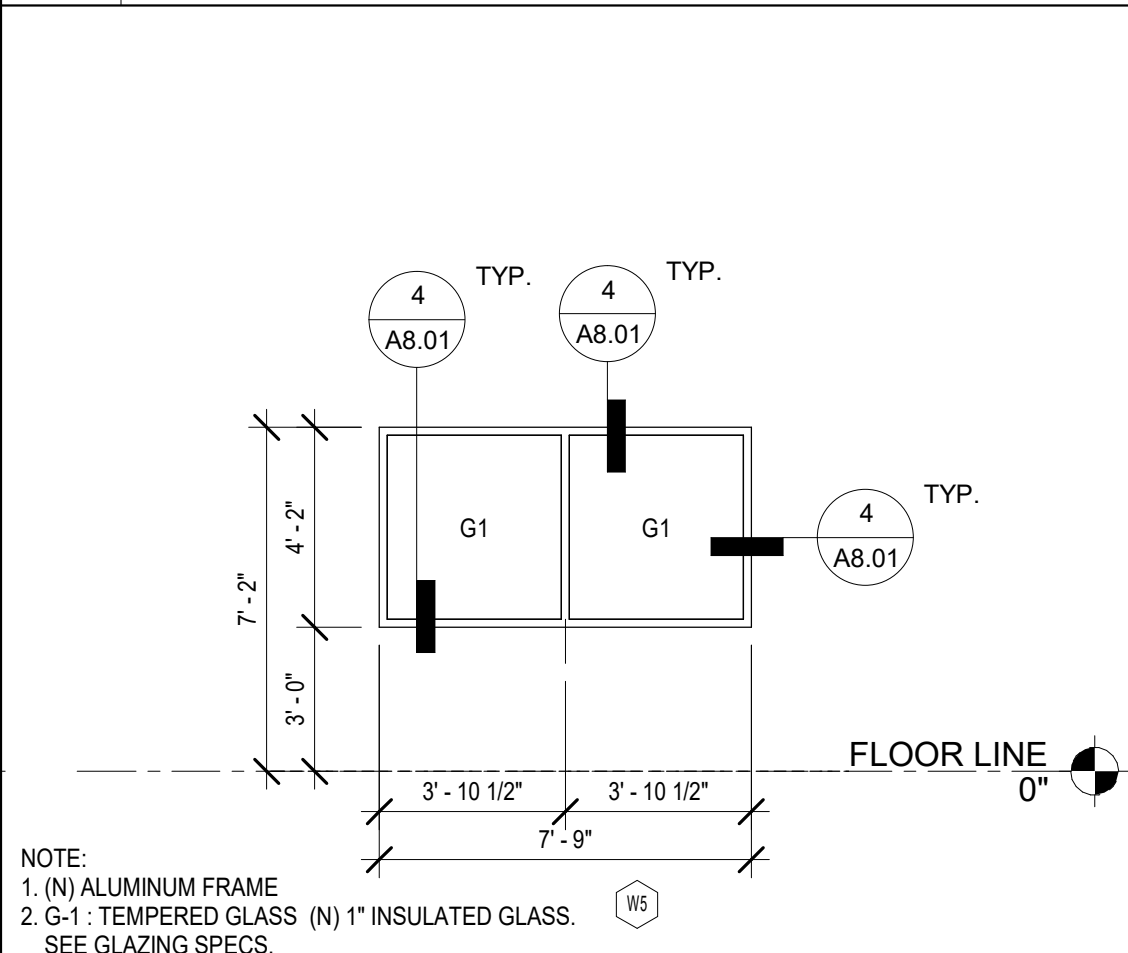
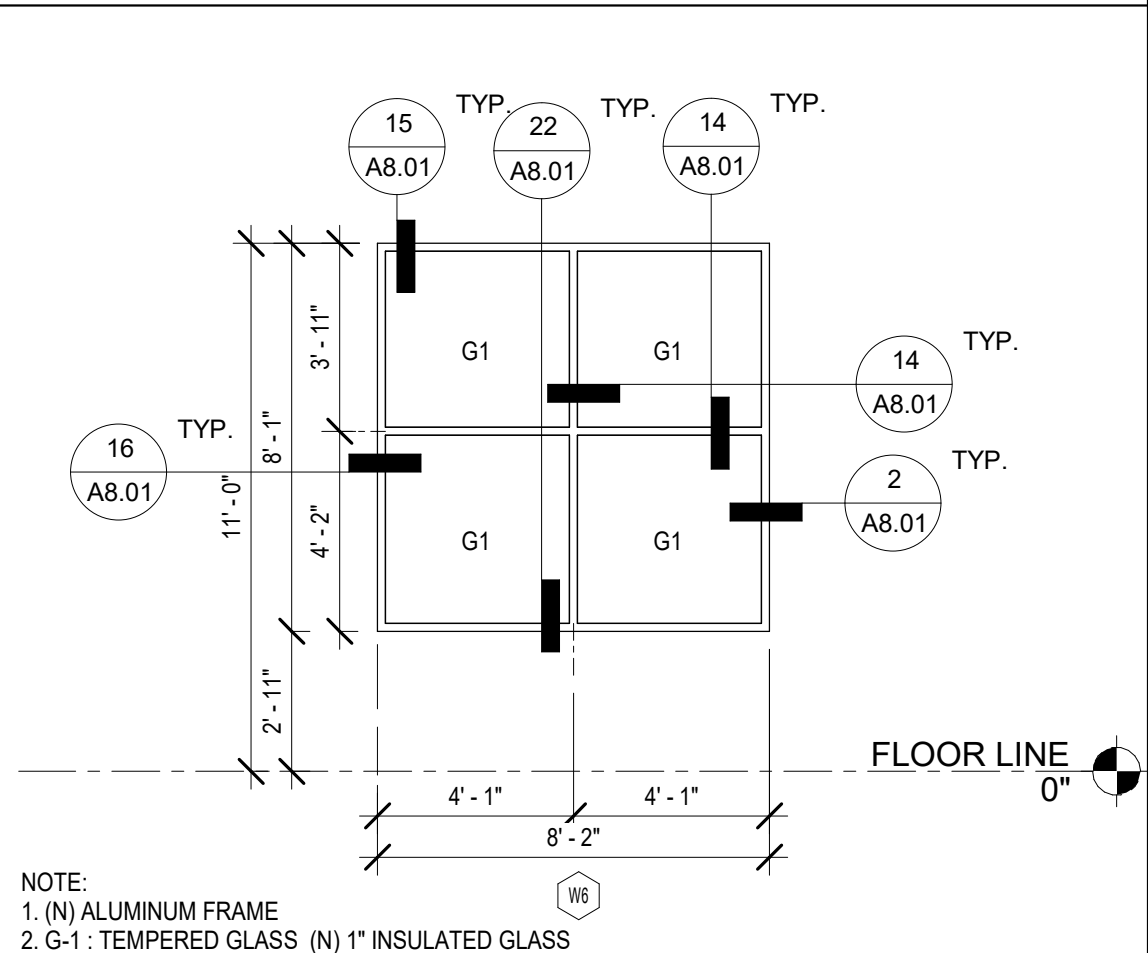
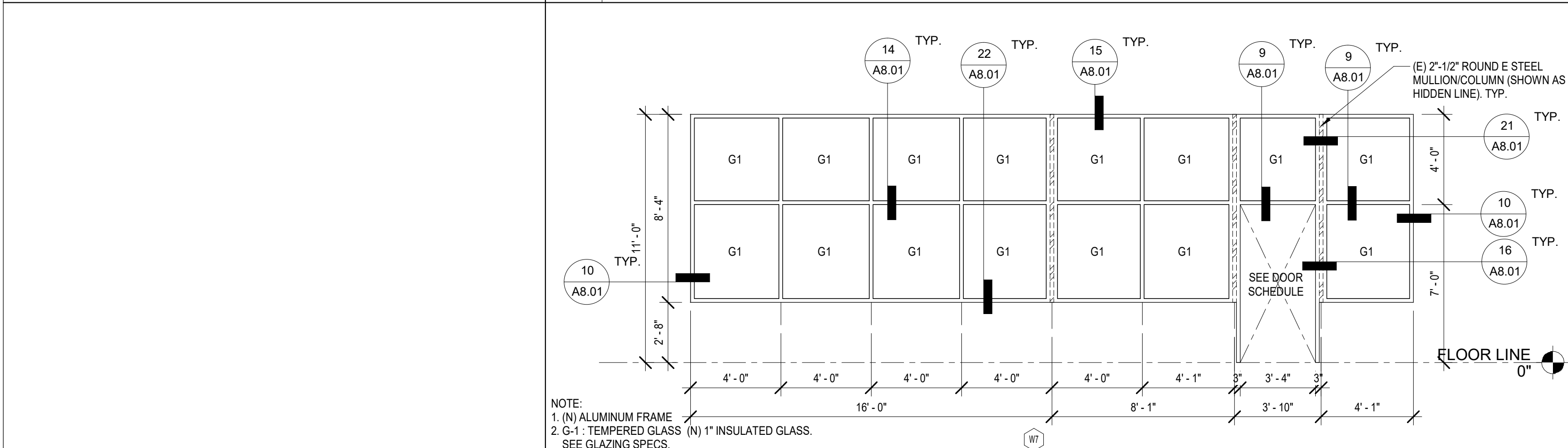
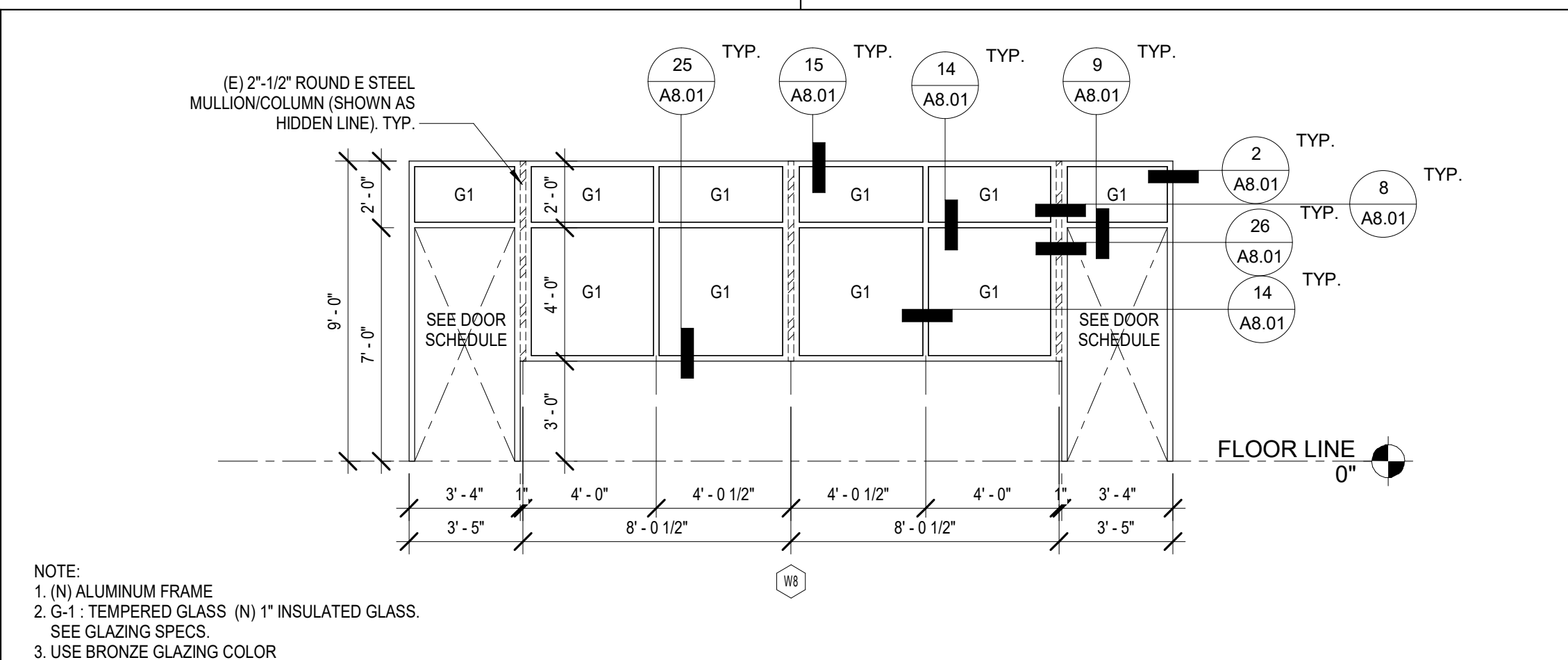
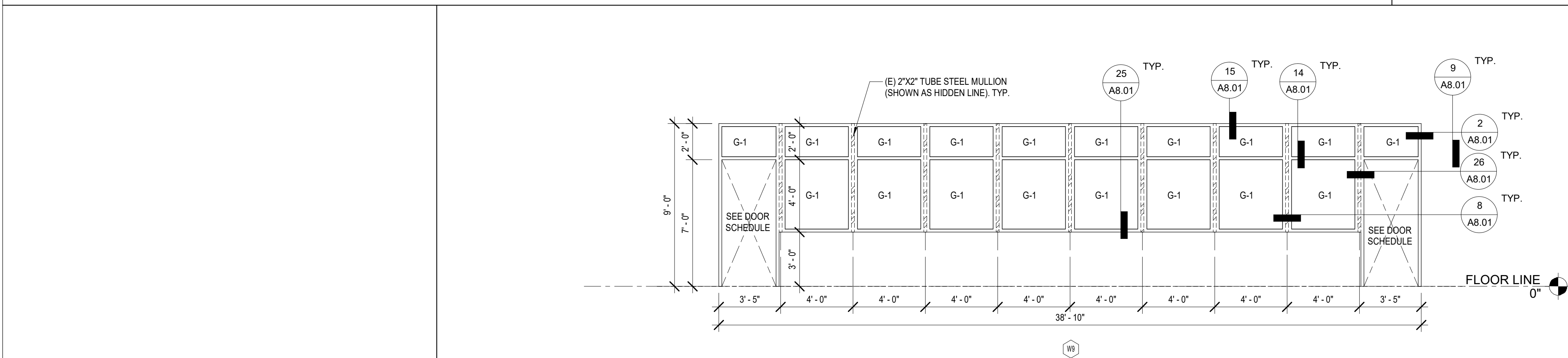
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DOOR SCHEDULE																			
MARK	ROOM NAME	Plan Area	Pair/Single	DOOR		MATL	FINISH	TYPE	FRAME		DETAILS				HARDWARE	FIRE RATING	PANIC HARDWARE	Security Hardware	REMARKS
				WIDTH	HEIGHT				MATL	FINISH	SILL	JAMB	HEAD						
3-1	STAFF LOUNGE	BLDG A	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
4-1	CLASSROOM 4	BLDG A	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
5-1	CLASSROOM 5	BLDG A	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
6-1	CLASSROOM 6	BLDG A	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
7-1	CLASSROOM 7	BLDG A	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
8-1	CLASSROOM 8	BLDG A	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
9-1	CLASSROOM 9	BLDG A	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
10-1	CLASSROOM 10	BLDG A	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
11-1	CLASSROOM 11	BLDG B	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
12-1	CLASSROOM 12	BLDG B	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
13-1	CLASSROOM 13	BLDG B	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
14-1	CLASSROOM 14	BLDG B	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
15-1	CLASSROOM 15	BLDG B	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
16-1	CLASSROOM 16	BLDG B	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
17-1	CLASSROOM 17	BLDG B	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
18-1	CLASSROOM 18	BLDG B	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
19-1	CLASSROOM 19	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		Yes	Yes		
19-2	CLASSROOM 19	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		No	Yes		
20-1	CLASSROOM 20	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		Yes	Yes		
20-2	CLASSROOM 20	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		No	Yes		
21-1	LIBRARY	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		Yes	Yes		
21-2	LIBRARY	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		No	Yes		
22-1	COMP LAB	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		Yes	Yes		
22-2	COMP LAB	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		No	Yes		
24-1	READING	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		Yes	Yes		
25-1	R.S.P. CLASSROOM	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	20&26/16.01	9/16.01	1		Yes	Yes		
B1-1	GIRLS RESTROOM	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	B	HM	PTD	20/16.01	27/16.01	27/16.01	3		No	No	NO CLOSER	
B2-1	BOYS RESTROOM	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	B	HM	PTD	20/16.01	27/16.01	27/16.01	3		No	No	NO CLOSER	
K1-1	KINDERGARTEN K-1	ADMIN / KINDERGARTEN	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
K1-2	KINDERGARTEN K-1	ADMIN / KINDERGARTEN	PAIR	7'-4"	7'-0"	WOOD	PTD	D	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	4		No	Yes		
K2-1	KINDERGARTEN K-2	ADMIN / KINDERGARTEN	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
K2-2	KINDERGARTEN K-2	ADMIN / KINDERGARTEN	PAIR	7'-4"	7'-0"	WOOD	PTD	D	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	4		No	Yes		
K4-1	WORKROOM K-4	ADMIN / KINDERGARTEN	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
K4-2	UNISEX RR 1	ADMIN / KINDERGARTEN	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	HM	PTD	19/16.01	13/16.01	13/16.01	2		No	No		
K5-1	RECEPTION K-5	ADMIN / KINDERGARTEN	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	1		Yes	Yes		
K5-2	RECEPTION K-5	ADMIN / KINDERGARTEN	SINGLE	3'-4"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/16.01	16&20/16.01	9/16.01	3		No	Yes		
K6-1	UNISEX RR 2	ADMIN / KINDERGARTEN	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	HM	PTD	19/16.01	13/16.01	13/16.01	2		No	No		

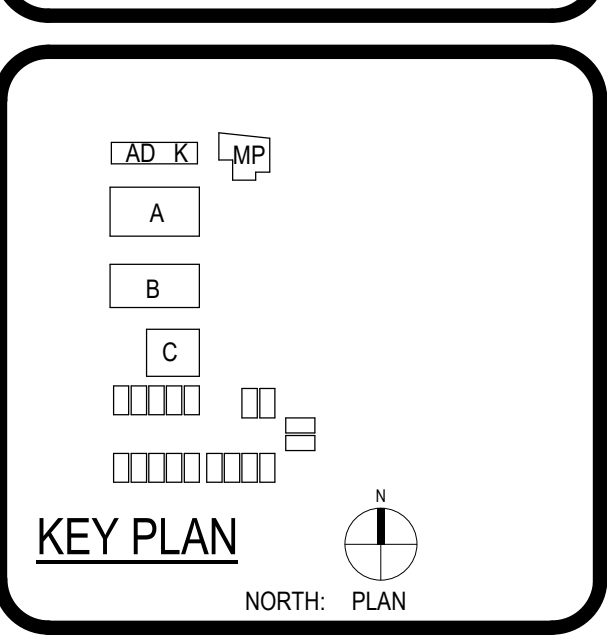


DOOR & WINDOW SCHEDULE ABBREVIATIONS	
ALUM	ALUMINUM
FF	FACTORY FINISH
HM	HOLLOW METAL
NA	NOT APPLICABLE
PTD	PAINT
ST	STAIN
WD	WOOD

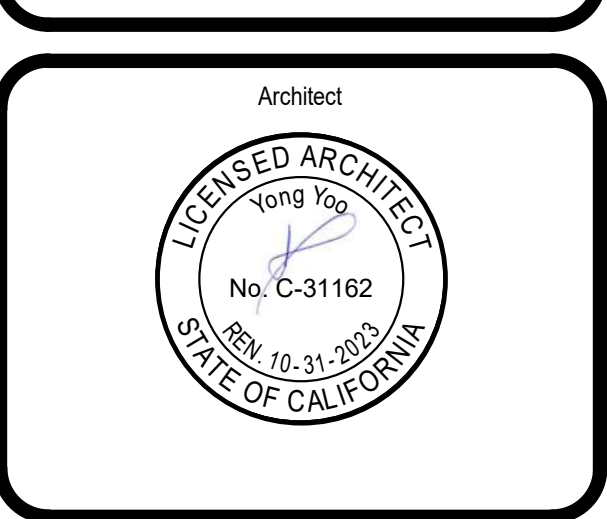


ARCHITECT
ANAHEIM
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
P 949-548-5000
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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION



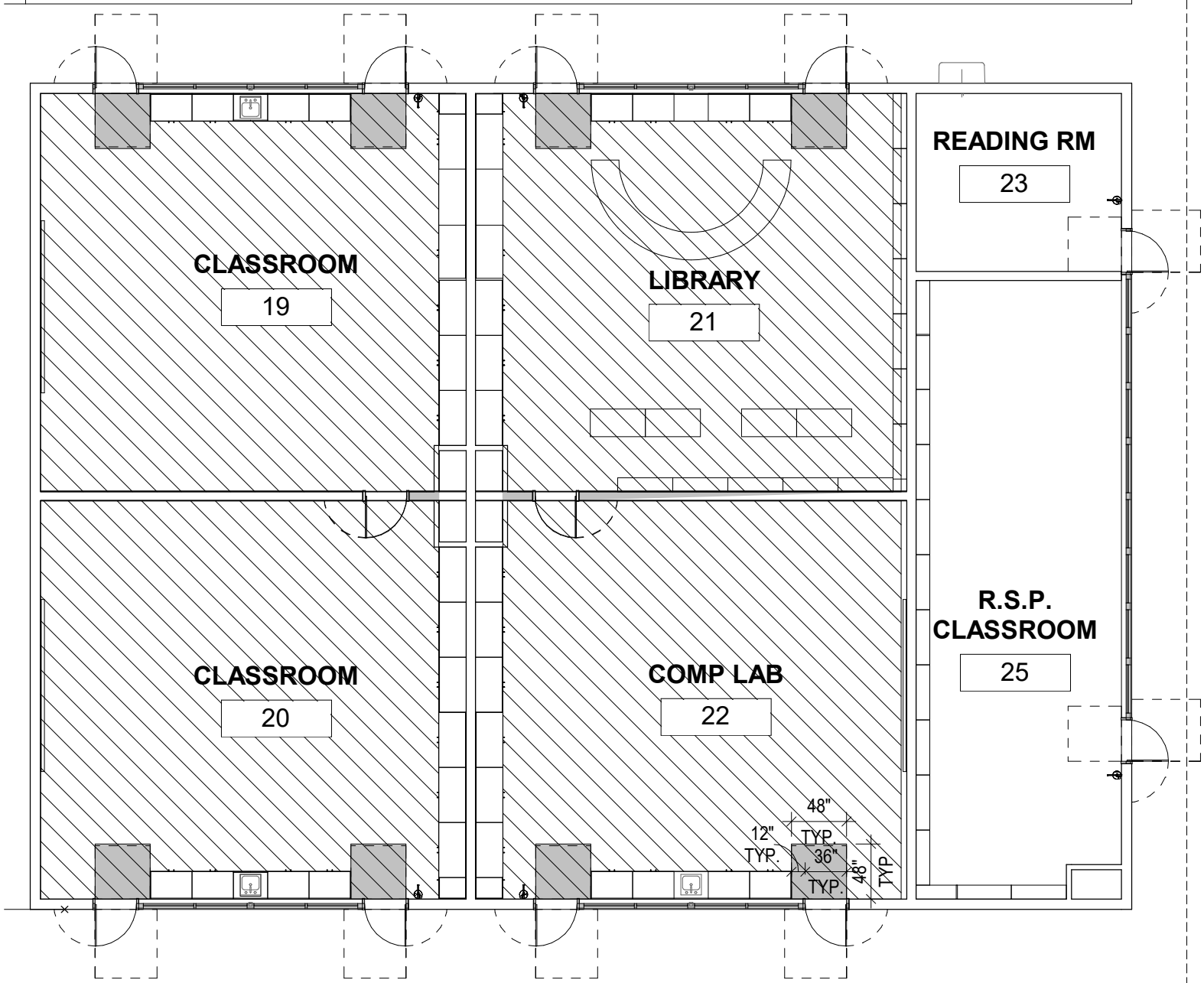
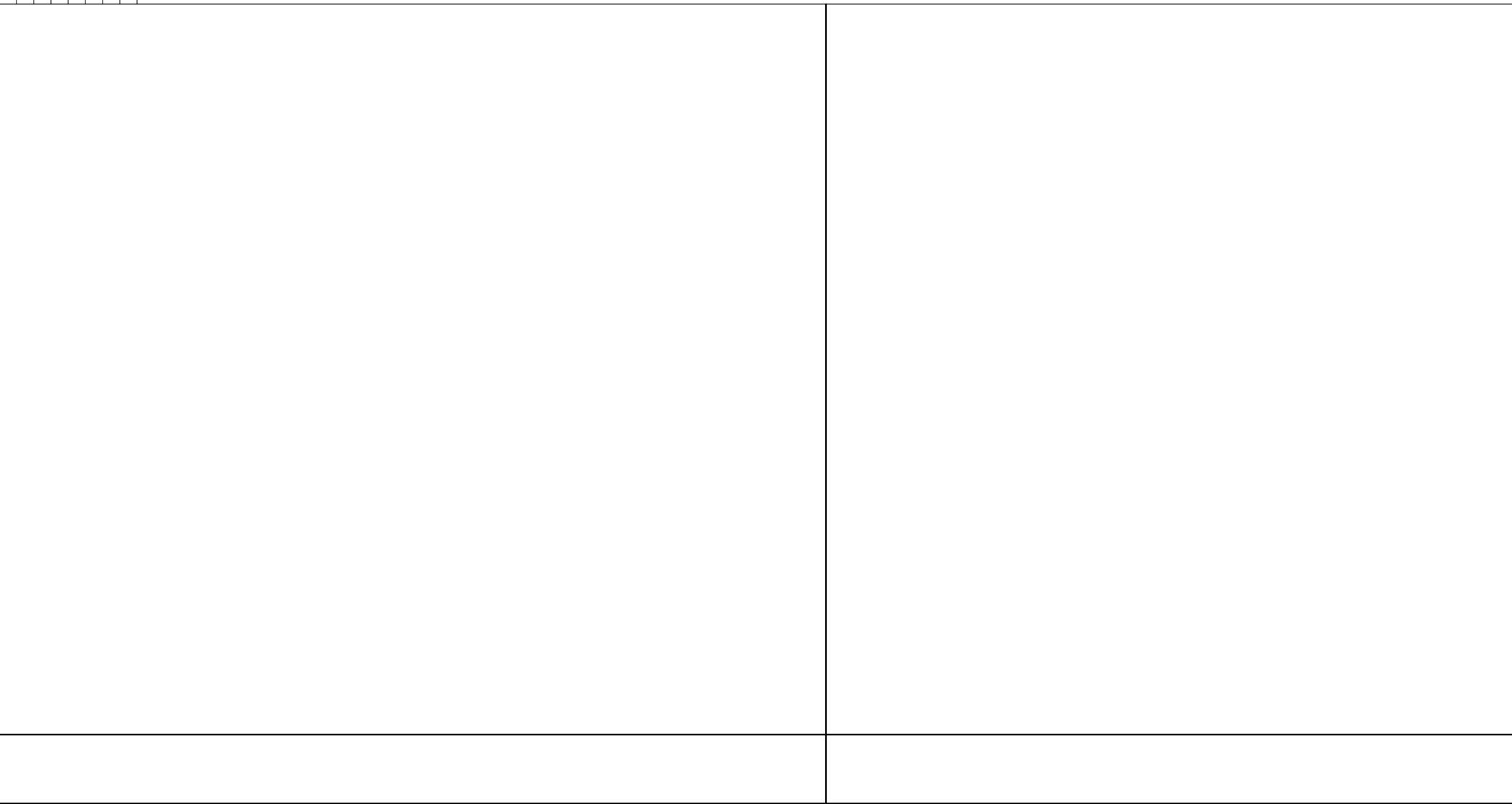
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REVISIONS		
No.	Description	Date

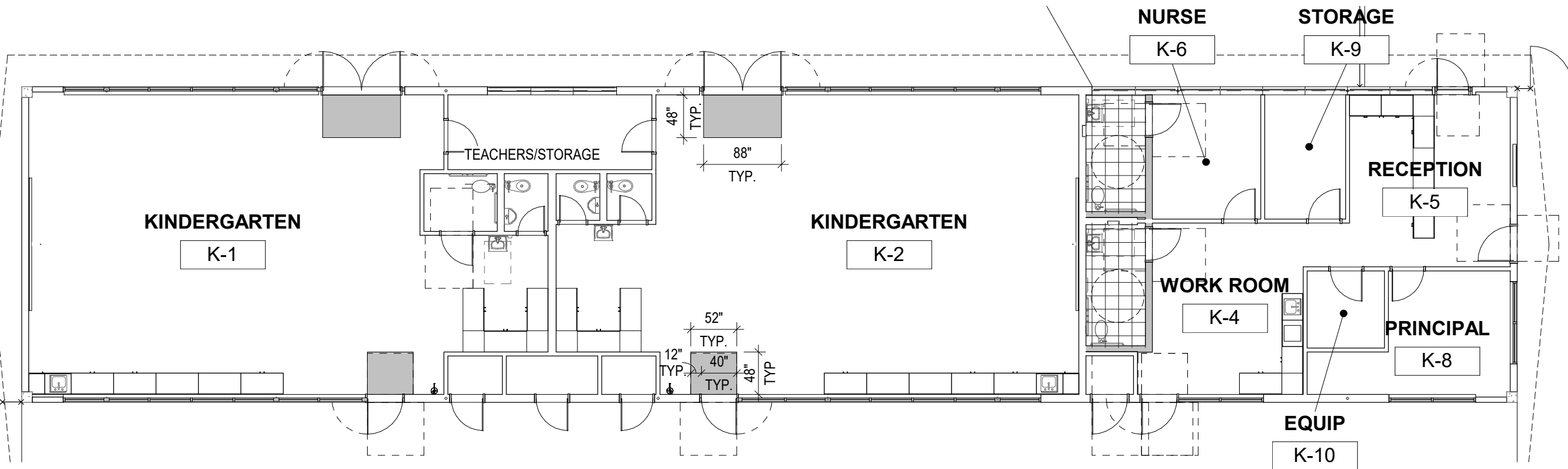
DOORS SCHEDULE & WINDOWS FRAMING ELEVATION

A9.01

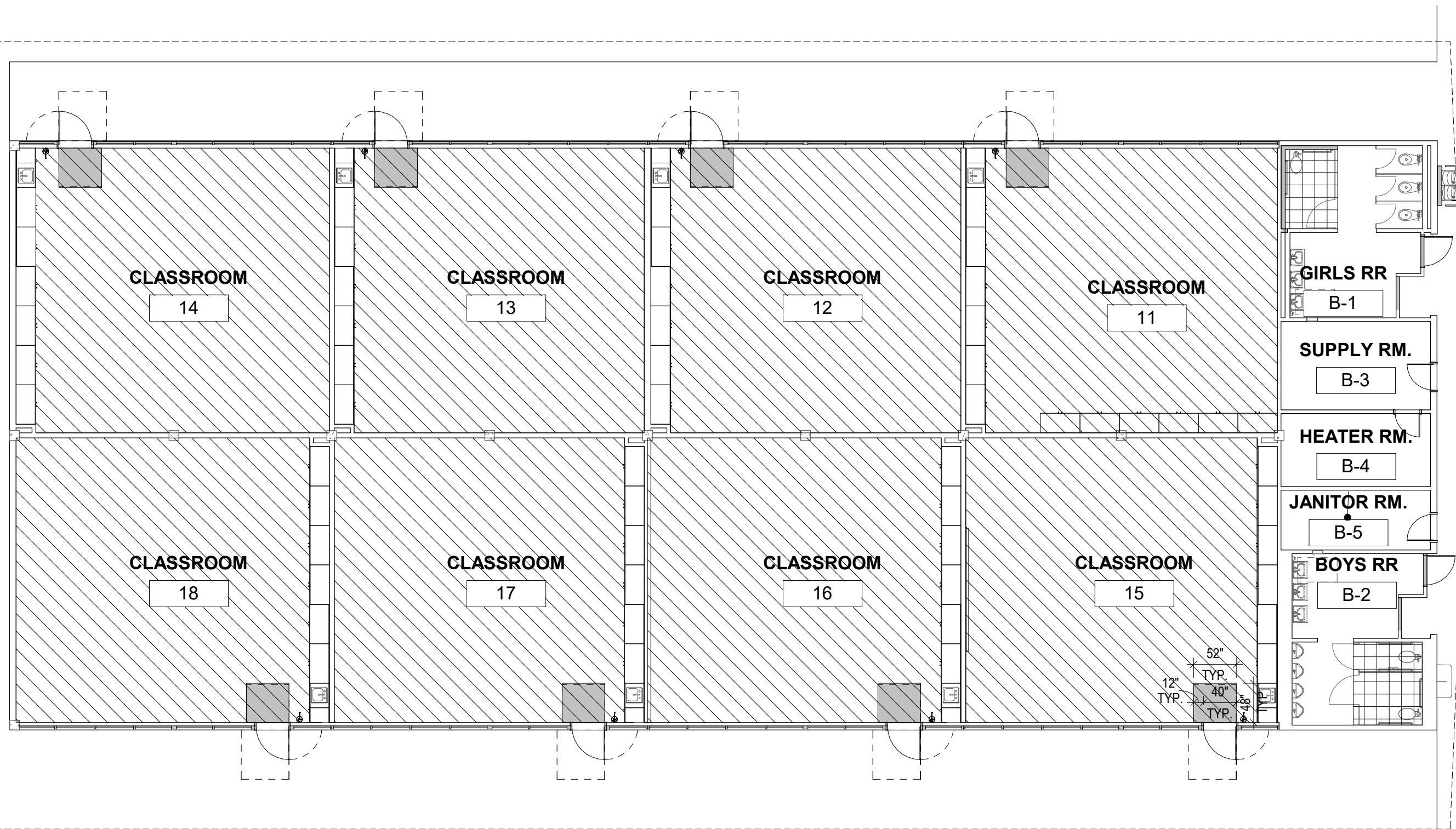


18 FINISH FLOOR PLAN - BUILDING C - LIBRARY / CLASSROOM
3/32" = 1'-0"

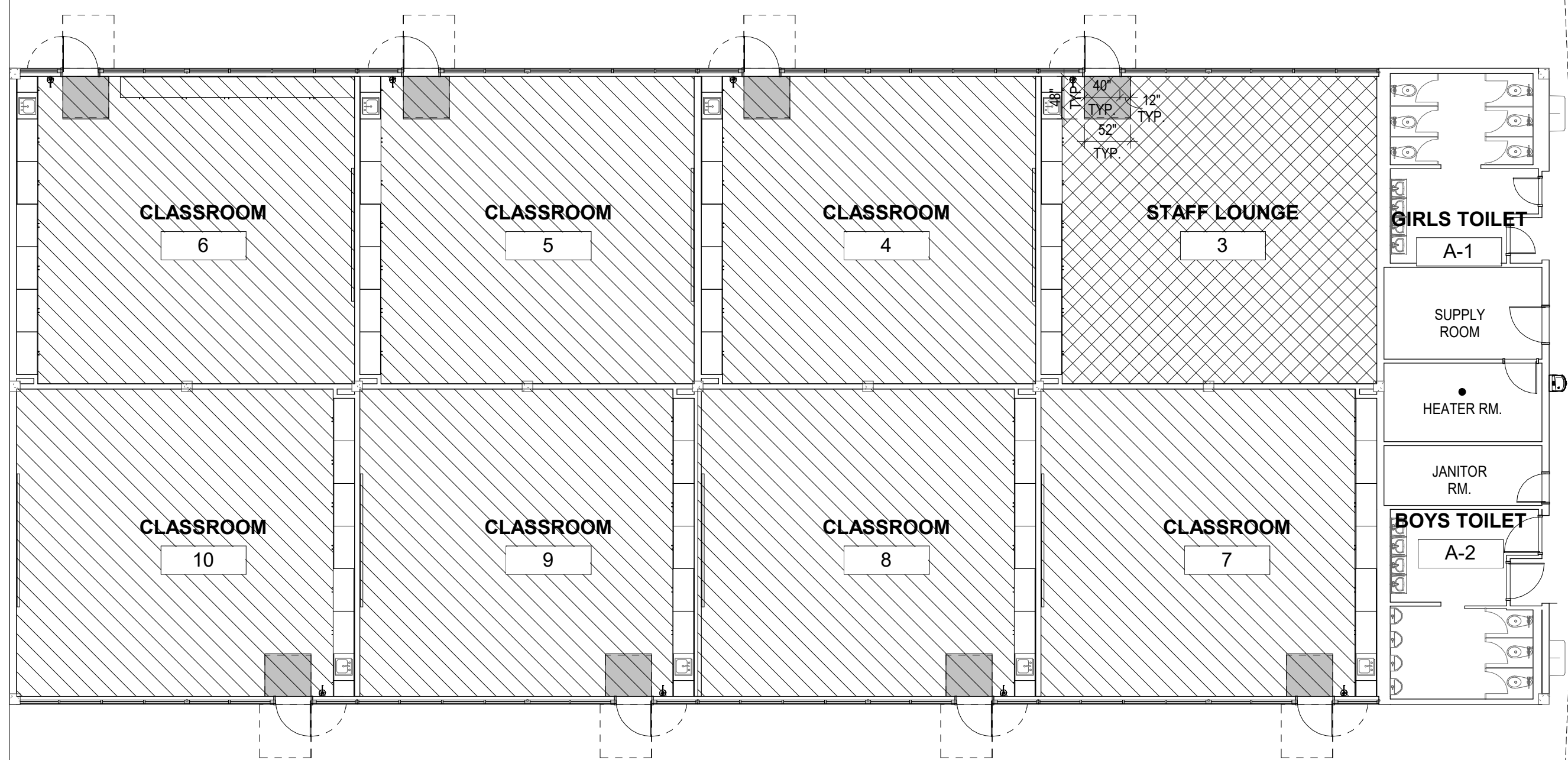
FINISH SCHEDULE													
ROOM NUMBER	ROOM NAME	(E) FLOOR MATERIAL	FLOOR		BASE		NORTH WALL		EAST WALL		SOUTH WALL		CEILING
			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL FINISH
3	STAFF LOUNGE	VCT	VCT1	RB	RB1	(E) BRCK	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	ACP1
4	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	P1	(E) GYP	TS1	(E) GYP	TS1	ACP
5	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	P1	(E) GYP	TS1	(E) GYP	TS1	ACP
6	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	P1	(E) GYP	TS1	(E) GYP	TS1	ACP
7	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
8	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
9	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
10	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
11	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	P1	(E) GYP	TS1	(E) GYP	TS1	ACP
12	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	P1	(E) GYP	TS1	(E) GYP	TS1	ACP
13	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	P1	(E) GYP	TS1	(E) GYP	TS1	ACP
14	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	P1	(E) GYP	TS1	(E) CONC	P1 & TS1	ACP
15	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
16	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
17	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
18	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
19	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRCK	P1	(E) GYP	P1 & TS1	(E) GYP	TS1	ACP
20	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	TS1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
21	LIBRARY	CPT	CPT	CPT2	RB	RB1	(E) BRCK	P1	(E) GYP	P1	(E) GYP	P1	ACP
22	COMP LAB	CPT	CPT	CPT2	RB	RB1	(E) GYP	TS1	(E) GYP	TS1	(E) GYP	P1	ACP
23	READING RM	CPT	CPT	CPT2	RB	RB1	(E) BRCK	P1	(E) BRCK	P1	(E) BRCK	P1	ACP
24	READING	CPT	CPT	CPT2	RB	RB1	(E) GYP	P1	(E) BRCK	P1	(E) GYP	P1	ACP
25	R.S.P. CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1 & TS1	(E) BRCK	P1	(E) BRCK	P1	ACP
26	READING	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) BRCK	P1	(E) BRCK	P1	ACP
A-1	GIRLS TOILET	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP P1
A-2	BOYS TOILET	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP P1
B-1	GIRLS RR	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP P1
B-2	BOYS RR	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP P1
K-1	KINDERGARTEN	CPT/VCT	CPT/VCT	CPT1/VCT1	RB	RB1	(E) BRCK	P1	(E) GYP	P1 & TS1	(E) BRCK	P1	ACP
K-1A	KG TOILET 1	CT	CT	CT1	CT	CT1	CT	CT1	CT	CT1	CT	CT1	GYP P1
K-1B	KG TOILET 2	CT	CT	CT1	CT	CT1	CT	CT1	CT	CT1	CT	CT1	GYP P1
K-2	KINDERGARTEN	CPT/VCT	CPT/VCT	CPT1/VCT1	RB	RB1	(E) BRCK	P1	(E) GYP	TS1	(E) BRCK	P1	ACP
K-2A	KG TOILET 3	CT	CT	CT1	CT	CT1	CT	CT1	CT	CT1	CT	CT1	GYP P1
K-2B	KG TOILET 4	CT	CT	CT1	CT	CT1	CT	CT1	CT	CT1	CT	CT1	GYP P1
K-3	KG TOILET 2	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP
K-4	KG TOILET 3	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP
K-4	WORK ROOM	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) BRCK	P1	ACP
K-4A	STAFF TOILET	CT	CT	CT1	CT	CT1	CT	CT1	CT	CT1	CT	CT1	GYP P1
K-5	RECEPTION	VCT	VCT	VCT1	RB	RB1	(E) BRCK	P1	(E) BRCK	P1	(E) GYP	P1	ACP
K-6	NURSE	VCT	VCT	VCT1	RB	RB1	(E) BRCK	P1	(E) GYP	P1	(E) GYP	P1	ACP
K-6A	NURSE TOILET	CT	CT	CT1	CT	CT1	(E) BRCK / GYP / CT	(E) BRCK / P1 / CT1	(N) GYP / CT	P1 / CT1	(N) GYP / CT	P1 / CT1	GYP P1
K-8	PRINCIPAL	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) BRCK	P1	ACP
K-9	STORAGE	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP
K-10	EQUIP	VCT	VCT	VCT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP



16 FINISH FLOOR PLAN - ADMIN / KINDERGARTEN
3/32" = 1'-0"



6 FINISH FLOOR PLAN - BUILDING B - CLASSROOM
3/32" = 1'-0"



3 FINISH FLOOR PLAN BUILDING A - CLASSROOM
3/32" = 1'-0"

GENERAL FINISH LEGEND NOTES

- ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
- REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
- PANT ALL EXPOSED STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS, ETC. TO MATCH ADJACENT SURFACES.
- PANT ALL NON-FACTORY FINISHED EXPOSED METAL.
- REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
- ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
- PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
- PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL U.N.O.
- REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
- ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE U.N.O.
- ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
- PANT ALL HOLLOW METAL DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.
- REMOVE EXISTING PAINT AT EXISTING BRICK WALL. PREPARE BRICK WALL SMOOTH TO RECEIVE NEW PAINT FINISH, WHERE OCCURS.
- RE-PANT ALL EXISTING CASEWORK (EXCLUDE PLAINSTONE COUNTERTOPS).
- PROVIDE APPROPRIATE PREPARATION, CLEANING AND BASE MATERIAL TO EXISTING INTERIOR SURFACES TO RECEIVE NEW FINISHES PER FINISH SPECS.
- PROVIDE APPROPRIATE PREPARATION, CLEANING AND BASE MATERIAL TO EXISTING BRICK WALL BEFORE RECEIVING NEW FINISH MATERIAL, PER FINISH SPECIFICATION.
- PROVIDE CONSISTENT FLAT SURFACE USING GEMENT FLOAT AND APPROPRIATE BASE MATERIAL AT EXISTING BRICK WALL TO RECEIVE NEW TILE FINISH, PER FINISH SPECIFICATIONS.

FINISH FLOOR MATERIALS LEGEND

- (E) FLOOR FINISHES TO REMAIN
- CPT-1, CARPET FLOORING TYPE 1
RE: FINISH SCHEDULE
- VCT-1, VINYL COMPOSITION TILE
RE: FINISH SCHEDULE
- CT-1 CERAMIC TILE FLOORING
RE: FINISH SCHEDULE
- WALK-OFF MAT, RE: FLOOR FINISH PLAN & DETL 15/AX4.1
48" DEPTH, 12" EXTEND ON PUSH SIDE, UNLESS SHOWN
AS FLUSH TO DOOR WIDTH OR EDGE OF WALL

MATERIAL FINISH ABBREVIATIONS

- ACP1 2'X2' ACOUSTICAL CEILING PANEL, SEE SPECIFICATIONS
- CPT1 CARPET TYPE 1, SEE SPECIFICATIONS
- CT1 CERAMIC TILE 1, SEE SPECIFICATIONS
- CTB1 CERAMIC TILE BASE 1, SEE SPECIFICATIONS
- VCT1 VINYL COMPOSITE TILE 1, SEE SPECIFICATIONS
- P1 PAINT TO BE SELECTED BY OWNER, SEE SPECIFICATIONS
- RB1 RUBBER BASE, SEE SPECIFICATIONS
- (E) FINISH TO REMAIN
- MF MANUFACTURERS FINISH, SEE SPECIFICATIONS
- TS1 TACKABLE SURFACE, SEE SPECIFICATIONS

MATERIAL ABBREVIATIONS

- ACP ACOUSTIC CEILING PANEL
- CONC CONCRETE
- CPT CARPET
- CT CERAMIC TILE
- CTB CERAMIC TILE BASE
- GUT GLUE UP TILE
- GYP GYPSUM BOARD
- P PAINT
- RB RUBBER BASE
- VCT VINYL COMPOSITE TILE
- (E) FINISH TO REMAIN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

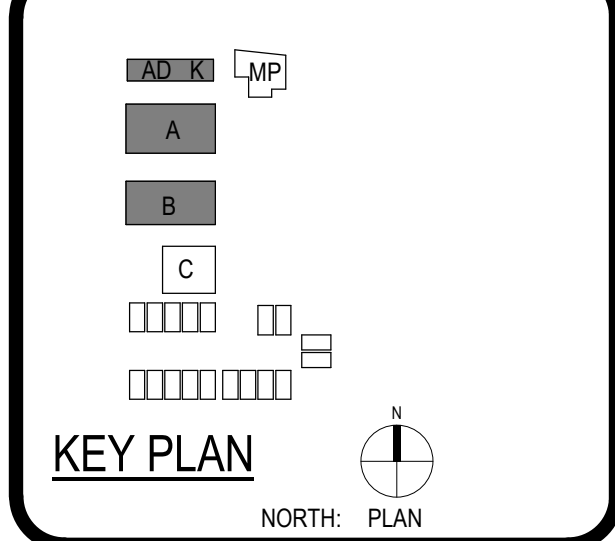
PRBK

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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. 30-43



Consultant



REVISIONS		
No.	Description	Date

DSA SUBMITTAL

FINISH PLANS &
SCHEDULE

A10.01

1. ALL WORK SHALL COMPLY WITH TITLE 24 CALIFORNIA BUILDING CODE, 2019 EDITION.
2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE EOR, THE ARCHITECT AND THE OWNER REPRESENTATIVE. PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER.
3. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE EOR AND THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL DIMENSIONS AND THE SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, THE OWNER SHALL BE NOTIFIED FOR CLARIFICATION.
5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
6. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE SCALE OVER SMALL.
7. TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION UNLESS SPECIFICALLY DETAILED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK & PER TYP DETAILS.
8. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THESE DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE CITY OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE ABOVE.
9. FOR TRENCHES OR EXCAVATIONS (5) FIVE FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, THE CONTRACTOR IS TO OBTAIN THE NECESSARY PERMIT FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY, PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
10. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER AND OWNER.
11. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE UNIVERSITY REPRESENTATIVE OR ENGINEER SO THAT PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER AND OWNER.
12. IN CASE OF DISCREPANCIES BETWEEN NOTES ON THIS SHEET & PROJECT SPECIFICATIONS, THE PROVIDED NOTES SHALL TAKE PRECEDENCE OVER SPECS.
13. CUTTING, BORING, SAW CUTTING OR DRILLING INTO (E) OR (NEW) STRUCTURAL ELEMENTS SHALL BE SPECIFICALLY DETAILED OR OTHERWISE APPROVED BY STRUCTURAL EOR.

QUALITY ASSURANCE PROGRAM

A) STRUCTURAL TESTS AND SPECIAL INSPECTION PROGRAM.

PER SECTION 4-335 OF CALIFORNIA ADMINISTRATION CODE, THE ARCHITECT OR REGISTERED ENGINEER IN GENERAL RESPONSIBLE CHARGE OF THE PROJECT, OR WITHIN THEIR DELEGATED PORTION OF THE WORK, SHALL ESTABLISH THE EXTENT OF THE STRUCTURAL TESTS AND SPECIAL INSPECTION PROGRAM CONSISTENT WITH THE NEEDS OF THE PROJECT, AND SIGN DSA-103.

THE ARCHITECT OR REGISTERED ENGINEER SHALL RECEIVE VERIFIED REPORTS FROM THE PROJECT INSPECTOR, SPECIAL INSPECTION, TESTING FACILITY, THE GEOTECHNICAL ENGINEER, CONTRACTORS AND THE OTHER ARCHITECTS AND ENGINEERS ARE SUBMITTED AS REQUIRED. THE RESPONSIBLE PARTY SHALL NOTIFY DSA AS TO THE DISPOSITION OF MATERIALS NOTED ON LABORATORY TESTING, AND/ OR SPECIAL INSPECTION, REPORTS AS NOT CONFORMING TO THE DSA APPROVED DOCUMENTS.

B) STRUCTURAL OBSERVATION

PERIODIC STRUCTURAL OBSERVATION SHALL BE CONDUCTED, PER SECTION 1710 OF THE CALIFORNIA BUILDING CODE AND SECTION 4-341(F) OF THE CALIFORNIA ADMINISTRATION CODE, TO ASSURE CONFORMANCE WITH THE DESIGN INTENT AND THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE REQUIREMENT ANS/OR RESPONSIBILITY FOR THE INSPECTION BY IOR.

A REGISTERED PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF THE PROJECT, INCLUDING LICENSED ARCHITECT OR STRUCTURAL ENGINEER, SHALL OBSERVE HIS/HER PORTION OF WORK DURING THE CONSTRUCTION OF THE PROJECT.

OBSERVATION SHOULD INCLUDE VISITS TO THE PROJECT SITE BY THE ARCHITECT AND/OR ENGINEER OR THEIR QUALIFIED REPRESENTATIVES IN COORDINATION WITH THE DISTRICT AND DSA. PRIOR NOTIFICATION SHALL BE MADE TO REQUEST THE REQUIRED OBSERVATIONS. ELUQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERING MATERIAL TO FACILITATE OBSERVATION.

STRUCTURAL OBSERVATIONS MAY CONSIST OF VISUAL OBSERVATION OF MAJOR STRUCTURAL MEMBERS, AND THEIR IMMEDIATE CONNECTIONS, AT SIGNIFICANT CONSTRUCTION STAGES. THE FREQUENCY OF SUCH OBSERVATION SHALL BE COORDINATED WITH THE DISTRICT ENGINEER OR ASSIGNED IOR PER SECTION 4-336.

AT THE COMPLETION OF THE PROJECT, A FINAL VERIFIED REPORT (DSA-6) MUST BE SUBMITTED WHICH SHOWS THAT THE STRUCTURAL SYSTEM IS COMPLETE AND GENERALLY CONFORMS TO THE APPROVED PLANS AND SPECIFICATIONS.

DEMOLITION

1. REFER TO MECH. SHEETS FOR DEMOLITION NOTES. SEE DEMOLITION PLANS ON SHEET MD2 SERIES
2. ALL (E) UTILITIES, DUCTS, CONDUITS, PIPES, SIGNS, JOINTS, ELEC PANELS & BOXES, DOOR, WINDOW, CHAIN FRAME CEILINGS & OTHER ARCH'L TREATMENTS SHALL BE REMOVED TEMPORARILY AS NEEDED & REINSTALLED TO IT'S ORIGINAL CONDITION & IN AGREEMENT WITH CODE STANDARDS. SUPPORTS & BRACES FOR DUCT WORK SHALL BE IN ACCORDANCE WITH SMACNA GUIDELINES.
3. DEMOLITION WORK SHALL BE FULLY COORDINATED WITH THE DISTRICT & DSA 'S REPRESENTATIVES FOR SEQUENCE AND TIME FRAME.
4. CONTRACTOR TO PROVIDE TEMP. SHORING, AS REQUIRED.
5. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

1. ALL CEMENT SHALL CONFORM AT ASTM C-150, TYPE II OR V
2. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33.
3. AGGREGATE GRADATION FOR CONCRETE SHALL CONFORM TO ASTM C-33 AND CBC 2019. AGGREGATE FOR ELEMENT WITH 4 HOURS RATING SHALL BE SILICEOUS.
4. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY STRENGTH:
 - ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.
 - CAST IN DRILLED HOLE PILES - 4000 PSI.
 - CONCRETE SLAB ON GRADE/HOUSEKEEPING PAD - 3000 PSI.
 - EXTERIOR CONCRETE WALKS, CURBS, ETC. AND MISC. CONCRETE - 2500 PSI STONE.
5. LIGHTWEIGHT CONCRETE . (NOT APPLICABLE)
6. CONCRETE DESIGN MIXES SHALL CONFORM TO THE STANDARD SPECIFICATIONS. MIX DESIGNS SHALL BE SIGNED BY A CALIFORNIA LICENSED ENGINEER & SUBMITTED FOR REVIEW & APPROVAL. SUPPORTING DATA SHALL BE PROVIDED PER CBC 1903A. THE TEST DATA SHALL BE REPORTED BY AN INDEPENDENT TESTING AGENCY.
7. PLACING OF ALL CONCRETE SHALL BE INSPECTED BY THE JOB INSPECTOR. TO VERIFY THAT REINFORCING STEEL IS SECURELY SUPPORTED IN PLACE DURING THE POUR. CONTRACTOR TO PROVIDE NECESSARY MEASURE TO PROTECT REINFORCING AND TENDONS DURING PLACEMENT USING TIES AND SUPPORTS. USE TREMPY FOR PLACEMENT OF CONCRETE FOR POURS DEEPER THAN 6'-0". USE OF BUCKET OR DROPPING IS NOT ALLOWED TO AVOID SEGREGATION.
8. LOCATION OF CONSTRUCTION JOINTS OR POUR JOINTS SHALL BE AS SHOWN ON PLANS OR AS APPROVED BY THE ENGINEER OR THE ARCHITECT PRIOR TO POURING CONCRETE. SEE NOTE 19 BELOW.
9. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS ONLY SHALL BE USED TO SUPPORT REINFORCING OFF GRADE.
10. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR THEY MAY BE STRIPPED AFTER 3 DAYS AND THEN COVERED WITH BURLAP WHICH SHALL BE KEPT WET FOR AN ADDITIONAL 7 DAYS. IN LIEU OF BURLAP, CURING COMPOUNDS MAY BE USED IF APPROVED BY THE STRUCTURAL ENGINEER. FORMS FOR CONCRETE COLUMNS SHALL BE LEFT IN PLACE FOR 3 DAYS. IF STRIPPED EARLY, THEN SHALL BE COVERED FOR ANOTHER 3 DAYS. OR BE PROTECTED BY CURRING COMPOUNDS CONTRACTOR SELECTS TO DEViate FROM THESE INSTRUCTIONS. ALL CRACKS AND OTHER DEFECTS SHALL BE REPAIRED PER EOR RECOMMENDATIONS AT CONTRACTORS EXPENSE.
11. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS.
12. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
13. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL COMPLY WITH CBC SECTION TABLE 1808A.8.2
14. ALL CONCRETE SHALL BE VIBRATED IN PLACE DURING PLACING OF CONCRETE.
15. THE STRUCTURAL STEEL AND STEEL FORM WILL DEFLECT WHILE CONCRETE IS BEING PLACED ON IT. THIS WILL RESULT IN THE NEED TO ADJUST THE SCREEDS AFTER THE CONCRETE HAS BEEN PLACED TO PRODUCE A LEVEL CONCRETE SURFACE. ALSO, THERE WILL BE ADDITIONAL CONCRETE REQUIRED, WHICH IS TO BE ANTICIPATED, AND NO REQUEST FOR EXTRA COST WILL BE CONSIDERED.
16. NO STAKES, STEEL OR WOOD, SHALL BE PERMITTED IN ANY CONCRETE POUR. SUSPEND FORMS FROM ABOVE GRADE.
17. DRYPACK SHALL BE 1-3/4 1/2 PORTLAND CEMENT TO SAND WITH A MINIMUM 28 DAY STRENGTH OF 4500 PSI. OR SET GROUT BY AN APPROVED EOR.
18. NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 7000 PSI.
19. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO MIN "4" TO EXPOSE CLEAN, SOLIDLY EMBEDDED AGGREGATE. PER TYP. DETAILS PROVIDED IN THIS SET, CONSTRUCTION JOINTS SHALL BE PROVIDED TO LIMIT SHRINKAGE CRACKS. A MAX DISTANCE OF 50 FEET SHALL BE CONSIDERED IF NO CONSTRUCTION JOINTS IS CALLED ON PLANS. THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S APPROVAL OF CONSTRUCTION & CONTROL JOINT LOCATION IN SLABS, WALLS AND BEAMS.
20. TEMPERATURE AND SHRINKAGE REINFORCEMENT: SHALL HAVE A LAP OF THIRTY (30) BAR DIAMETERS, BUT NOT LESS THAN 18 IN. AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN FIVE (5) FEET APART.
21. REBAR GRADES: **ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:**
 - ALL SIZES NOT SUBJECT TO WELDING.....GRADE 60.ALL REINFORCING BARS TO BE WELDED SHOULD CONFORM TO ASTM A706.
22. TYP. REBAR COVER: MINIMUM REBAR COVER FOR REINFORCED CONCRETE SHALL BE AS SHOWN IN THIS TABLE:
23. MAX W/C RATIO = 0.45

EXPOSURE CONDITION	COVER	TOLERANCE (+)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	3/8 INCH
EXPOSED TO EARTH OR WEATHER:		
NO. 5 AND SMALLER BARS	1-1/2"	1/4 INCH
NO. 6 AND LARGER BARS	2"	1/4 INCH
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:		
ROOF SLAB	1"	1/8 INCH
STRUCTURAL SLABS & WALLS	1"	1/8 INCH
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS & SPIRALS)	1-1/2"	1/4 INCH
SLABS ON GRADE	1-1/2"	1/4 INCH

NON-SHRINK GROUT

"NON-SHRINK GROUT" SHALL BE DEFINED AS A HIGH-STRENGTH MORTAR OR GROUT WHICH DOES NOT SHRINK IN THE PLASTIC STATE, IS DIMENSIONALLY STABLE IN THE HARDENED STATE, AND BONDS PERMANENTLY TO CLEAN METAL SURFACES AND CONCRETE SUBSTRATE.

DRY PACK OR NON-SHRINK GROUT SHALL CONFORM TO THE ASTM C1107. SPECIFICATION FOR PACKAGED DRY (H OR ALKALI-CEMENT GROUT (NON-SHRINKABLE). NO SHRINKAGE, BEFORE HARDENING (0.00 SHRINKAGE WHEN TESTED IN ACCORDANCE WITH ASTM C827), IS ALLOWED

COMPRESSIVE STRENGTH, SHALL REACH THE FOLLOWING COMPRESSIVE STRENGTH

a. AT ONE DAY: 1000 PSI

b. AT THREE DAYS: 2500 PSI

c. AT SEVEN DAYS: 4000 PSI

d. AT 28 DAYS: 7000 PSI

A MANUFACTURER'S PRODUCT DATA SHALL BE SUBMITTED PRIOR TO THE INSTALLATION, SHOWING THE MATERIAL MEET SPECIFIED SHRINKAGE AND COMPRESSIVE STRENGTH REQUIREMENTS, ABOVE.

SHOP DRAWINGS:

1. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT, AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
2. SHOP DRAWINGS SHALL BE SUBMITTED BY CONTRACTOR TO ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL, AND IF REQUIRED TO THE BUILDING OFFICIALS FOR THEIR REVIEW AND APPROVAL, ALSO SEE SUBMITTALS AND DEFERRED APPROVAL.
3. A SET OF APPROVED SHOP DRAWINGS SHALL BE MAINTAINED @ THE JOB SITE & PRESENTED TO THE INSPECTOR PRIOR TO PLACEMENT OF THE REINFORCEMENT.

1. WELDING SHALL BE DONE IN CONFORMANCE WITH AWS-D1.1 & OTHER APPLICABLE CODES & STANDARDS USE ELECTRIC SHIELDED ARC PROCESS USING E-70XX ELECTRODES. ALL WELDS SHALL BE UNIFORM IN SIZE AND APPEARANCE, AND FREE OF PINHOLE, POROSITY, UNDERCUTTING, OR OTHER DEFECTS. ALL BUTT WELDS SHALL BE FULL PENETRATION.
2. WELDS SHALL BE DONE IN THE SHOP OF AN ICC OR ASCE APPROVED FABRICATOR UNLESS OTHERWISE NOTED ON PLANS. ALL FIELD WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS APPROVED BY THE BUILDING OFFICIAL.
3. CONTINUOUS INSPECTION BY AN APPROVED DEPUTY INSPECTOR IS REQUIRED FOR ALL ON SITE WELDING, U.N.O.
4. STRUCTURAL STEEL NOT ENCASED IN CONCRETE OR MASONRY SHALL BE SHOP PAINTED AS SPECIFIED. ANY ABRASIONS SHALL BE TOUCHED UP AFTER ERECTION.
5. FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START OF FABRICATION. FABRICATION SHALL CONFORM TO A.I.S.C. SPECIFICATION.
6. ALL FULL PENETRATION WELDS IN FIELD AND SHOP SHALL BE ULTRASONICALLY TESTED AND APPROVED.
7. CONTINUOUS INSPECTION IS REQUIRED FOR ALL HIGH STRENGTH BOLTING CONNECTIONS.
8. SPLICE MEMBERS ONLY WHERE INDICATED.
9. BOLT HOLES IN STEEL SHALL BE STANDARD HOLES, 1/16 INCH LARGER IN DIAMETER THAN NORMAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE. BOLT HOLES IN BASE PLATES MAY BE OVERSIZED PER AISC TABLE 14-2 IF WASHERS ARE PROVIDED IN ACCORDANCE WITH THIS TABLE.
10. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION AS INDICATED BELOW UNLESS NOTED OTHERWISE:
 - ALL WIDE FLANGE AND WT SHAPES A992, GRADE 50
 - STEEL ANGLES AND CHANNELS A36 U.N.O.
 - BEAM SHEAR PLATES, STIFFENER PLATES, ALL OTHER PLATES A572, GRADE 50 U.N.O.
 - MACHINE BOLTS USE ONLY WHERE INDICATED) A307
 - THREAD AND SMOOTH ROD F1554, GR50
 - NUTS FOR BOLTS AND MACHINE BOLTS A563
 - HARDENED WASHERS F436
 - UNHARDENED WASHERS F844
 - PLAIN WASHERS ANSI B18.22.1
 - STRUCTURAL TUBES A-500, GRADE C
 - STRUCTURAL PIPES A-53, TYPE E OR S, GRADE B
12. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIP ZINC GALVANIZED

WOOD FRAMING

1. ALL SAWN LUMBER SHALL BE DOUGLAS FIR OR WESTERN LARCH, U.N.O.
2. GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WWPA OR WCLIB). WOOD GRADES ARE TO BE AS FOLLOWS U.N.O.:
 - BEAMS LSL OR PRL OR GLB UNO
 - HEADERS SEE SCHEDULE (4/SDS-2)
 - POSTS AND TIMBERS NO.1
 - PLATES NO.2
 - STUDS @ NON-BEARING WALLS NO.2
 - STUDS @ BEARING/SheAR WALLS NO.2 U.N.O. SEE SCHEDULE (8/SDS.2)
 - RAFTERS AND ROOF JOISTS NO.2
 - FLOOR JOIST NO.1
 - SILL PLATES PRESSURE TREATED NO.1
 - FOR MOISTURE RESISTANCE (SEE NOTE #23.) NO.1
 - TJI PER PLAN OR EQ.
 - OPEN WEB TRUSSES PER PLAN & APPROVEDMANUF. ROOF TRUSSES PER PLAN & APPROVED MANUF.
3. WHERE WOOD IS IN CONTACT WITH CONCRETE OR MASONRY USE FOUNDATION REDWOOD OR DOUGLAS FIR PRESSURE TREATED FOR MOISTURE RESISTANCE. PRESSURE TREATED LUMBER SHALL BE REQUIRED FOR "CHEMICALLY THREATED SILLS".
4. PLYWOOD SHALL BE DOUGLAS FIR CONFORMING TO U.S. PRODUCT STANDARDS PS-1-83, WITH EXTERIOR GLUE AND SHALL BE GRADE MARKED BY APA. PLYWOOD AT EXPOSED EAVES SHALL BE EXPOSURE I GRADE PLYWOOD. PLYWOOD SHALL BE STRUCTURAL- I FOR FLOOR DIAPHRAGMS & SHEAR WALLS. OSB PANELS MAY BE USED IF HAVE EQUIVALENT PROPERTIES.
5. U.N.O. ALL DAMAGED OR DETERIORATED LUMBER SHALL BE REPLACED WITH EQUAL SECTION AND EQUAL OR BETTER GRADE AS SPECIFIED ON THESE DRAWINGS.
6. ALL BOLTS FOR WOOD CONNECTIONS SHALL BE A307, GRADE A. WHERE WOOD IS BOLTED TO STEEL, USE A LOCK WASHER UNDER THE NUT ON THE STEEL SIDE.
7. ALL BOLT HEADS AND NUTS THAT BEAR AGAINST THE FACE OF WOOD MEMBERS SHALL BE PROVIDED WITH METAL SQUARE WASHERS AS INDICATED ON PLANS.
8. ALL STUD WALLS SHALL HAVE FIRE BLOCKING AT 5'-0" O.C. MAXIMUM, VERTICAL UNLESS ALLOWED BY CODE.
9. BLOCKING SHALL BE INSTALLED AT THE TOP OF ALL BEARING AND SHEAR WALLS.
10. PROVIDE DOUBLE FLOOR JOISTS UNDER PARALLEL PARTITIONS.
11. PROVIDE 2X3 CROSS-BRIDGING OR 2X SOLID BLOCKING AT A MINIMUM OF 8'-0" O.C. FOR FLOOR JOISTS (CONTACT METAL BRIDGING OR EQUAL MAY BE USED).
12. HOLES AND NOTCHES IN STRUCTURAL MEMBERS FOR PIPES AND CONDUIT SHALL COMPLY WITH THE BUILDING CODE & PROVIDED TYP. DETAILS.
13. ALL BOLT HOLES SHALL BE DRILLED A MIN. OF 1/32" TO A MAX. OF 1/16" LARGER IN DIAMETER THAN THE NOMINAL SIZE OF BOLT USED.
14. EACH SHEET OF PLYWOOD SHALL HAVE 2' MIN. SHEET DIMENSION UNLESS ALL EDGES OF THE UNDERLIZED SHEETS ARE SUPPORTED BY FRAMING MEMBERS OR BLOCKING.
15. THREADED PORTION OF LAG SCREWS SHALL BE TURNED NOT DRIVEN INTO THE PRE-DRILLED HOLE.
16. ALL NAILS SHALL BE COMMON WIRE NAILS U.N.O.
17. IF GUN NAILING IS USED, REDUCE THE SPECIFIED NAIL SPACING BY 20% UNLESS THE HEADS DO NOT PENETRATE INTO THE SHTG.
18. ALL NAILS SHALL BE GALVANIZED WHERE EXPOSED TO WEATHER.
19. EXCEPT WHERE TOE NAIL IS REQUIRED, NAILS SHALL BE DRIVEN PERPENDICULAR. PRE-DRILL FOR ALL NAILS 20d OR LARGER.
20. TJI, PARALLAM, AND TIMBER STRANDS SHALL BE ICC APPROVED PER SPECIFICATIONS. ALSO SEE SPECIAL INSPECTION & SHOP DRAWING NOTES ON THIS SHEET.
21. USE SIMPSON OR OTHER EQUIVALENT ICC APPROVED HARDWARE FOR ALL CONNECTION PER PLAN NOTES AND SPECIFICATIONS.
22. ROOF TRUSSES SHALL BE DESIGNED & STAMPED BY MANUFACTURE'S ENGINEER. SHOP DRAWING SHALL BE PREPARED PER NOTES ON THIS SHEET.
23. FASTENERS AND ANCHOR BOLTS INSTALLED IN CHEMICALLY OR PRESSURE TREATED LUMBERS SHALL BE CORROSION RESISTANT USING HOT-DIPPED ZINC COATED GALVANIZED OR STAINLESS STEEL PER CBC SECTION 2304.3.
24. EDGE OF SHEATHING PLYWOOD PANELS SHALL BE BLOCKED OR T&G AS SPECIFIED ON PLANS.
25. PARTICLE PANELS (OSB) MAY BE USED IN LIEU OF PLYWOOD, IF IT IS PROVED TO BE EQUIVALENT TO CDX-STRUCT-I, AND MEETS UL-FIRE-RATED ASSEMBLY FOR THE FLOOR SYSTEM, AS SPECIFIED ON THE PROJECT REQUIREMENTS. PLYWOOD SHEATHING PANELS SHALL HAVE TONGUE & GROOVE EDGES FOR INTERLOCKING OR BE SUPPORTED BY 3X BLOCKING ALONG THE PANEL WITH SQUARE EDGES. PLACING DECK CLIPS FOR SUPPORT OF PANELS IS NOT ACCEPTABLE AS ALTERNATIVE SUPPORT METHODS ALONG FREE EDGES.

ANCHOR BOLTS SHALL BE ONE OF THE FOLLOWING ACCEPTABLE PRODUCTS, OR AN EQUIVALENT. NO DRILLED-IN ANCHOR IS ALLOWED IN POST TENSIONED SLABS TO AVOID DAMAGING/CUTTING TENDONS & REINFORCEMENT, UNLESS THE LOCATION IS CLEARED BY NONDESTRUCTIVE TESTING OF UNDERGROUND PENETRATING RADAROR X-RAY. (PACHOMETER READING IS NOT ACCEPTABLE)

- EXPANSION-TYPE ANCHORS
 - HILTI -T22 (ESR#4266) (FOR CONCRETE)
 - HILTI -T22 (ESR#4561) (FOR MASONRY) (FOR INSTALLATION SEE TABLE A)
- EPOXY/ADHESIVE ANCHORS
 - HILTI RES500-V3 ADHESIVE SYSTEM, ESR#3814 (FOR TEST FREQUENCY SEE NOTES BELOW AND FOR TESTING LOADS SEE TABLE B)
 - SIMPSON HY270 EPOXY ANCHORS (ICC-ESR # 4143) FOR USE IN BRICK
 - SCREW TYPE ANCHORS
 - SIMPSON TITEN HD (ESR#1056) (FOR MASONRY)

1. EQUIVALENT PRODUCTS, WITH VALID & CURRENT ICC REPORTS WHICH ALLOW APPLICATION FOR SEISMIC LOADING, ARE ACCEPTABLE.
2. FOR MIN. EMBEDMENT AND OTHER INFO., REFER TO DETAILS.
3. FOR REPRESSION AND INSTALLATION, REFER TO MANUFACTURES' RECOMMENDATIONS & NOTE/TABLES BELOW

POST-INSTALLED EXPANSIVE ANCHOR BOLTS

TABLE A		NOMINAL ANCHOR DIAMETER (IN.)											
SETTING INFORMATION	SYM.	UNIT	3/4	3/8	1/2	5/8	3/4						
NOMINAL BOLT DIAMETER	d _b	IN	3/4	3/8	1/2	5/8	3/4						
EFFECTIVE MIN. EMBEDMENT	n _e	IN	3	3	2	3	2	3	3	4	3	3	3
NOMINAL EMBEDMENT	n _m	IN	3	2	2	3	3	3	3	4	3	3	3
MIN. HOLE DEPTH	n _h	IN	2	2	2	3	2	3	3	3	4	3	3
INSTALLATION TORQUE F _{ts}	F _{ts}	FT-LB	4	30	50	40	110						
INSTALLATION TORQUE F _{tu}	F _{tu}	FT-LB	6	30	40	60	125						
FIXTURE HOLE DIAMETER	d _f	IN	5/16	7/16	9/16	11/16	13/16						

ADHESIVE ANCHOR BOLTS AND DOWELS:

1. MANUFACTURER'S FIELD REPRESENTATIVE SHALL PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK; INSTALLATION.
2. INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICAL ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 318.
3. EMBEDMENT DEPTH FOR ANCHORS AND DOWELS IS AS FOLLOWS, UNLESS OTHERWISE NOTED THE TESTING LABORATORY WILL PERFORM TENSION TESTS ON 25% OF ANCHORS AND DOWELS TO THE SPECIFIED TEST LOADS:

ROD DIA. OR BAR SIZE	EMBEDMENT	TEST LOAD	BASE MATERIAL
3/8"	4"	3,000#	CONCRETE
1/2"	5"	4,500#	CONCRETE
5/8"	6"	6,500#	CONCRETE
3/4"	7"	9,000#	CONCRETE
7/8"	9"	11,000#	CONCRETE
1"	11"	15,000#	CONCRETE
1-1/4"	14"	20,000#	CONCRETE
#3	5"	3,500#	CONCRETE
#4	6-1/2"	5,500#	CONCRETE
#5	8"	8,500#	CONCRETE
#6	10"	12,000#	CONCRETE
#7	12"	16,500#	CONCRETE
#8	14"	12,500#	CONCRETE
#9	16"	23,000#	CONCRETE
#10	19"	26,000#	CONCRETE

4. ANCHORS SHALL CONFIRM WITH ASTM A193 GRADE B7 THREADED RODS USING ASTM A 563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS U.N.O..
5. REPLACE ANCHORS AND DOWELS THAT FAIL DURING TESTING AND RETEST, IF MORE THAN 10% OF THE TESTED DOWELS AND ANCHORS FAIL TO ACHIEVE THE SPECIFIED TEST LOAD, TEST 100% OF THE DOWELS AND ANCHORS INSTALLED IN THE LAST 2 DAYS OF ANCHOR INSTALLATION.
6. CENTER BAR IN THE HOLE AND WEDGE TIGHT WITH WOODEN WEDGES TO HOLD IT IN PLACE UNTIL THE ADHESIVE SETS.
7. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
8. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLES ATTACHED WITH ADHESIVE ANCHORS.
9. BOLTS SET IN EXPOSED SURFACE SHALL BE STAINLESS STEEL OR CORROSION RESISTANT

10. TEST REQUIREMENT:
 - A. FREQUENCY 50% OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TESTED.
 - B. TEST LOADS: TEST LOADS SHALL BE TWICE THE MAXIMUM ALLOWABLE TENSION LOAD OR ONE AND A QUARTER (1½) TIMES THE MAXIMUM DESIGN STRENGTH OF ANCHORS AS PROVIDED IN THE APPROVED ICC REPORT. TENSION TEST LOAD NEED NOT EXCEED 80% OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT.
11. TEST LOADS FOR EPOXY ANCHOR IN BRICK USE SIMPSON HY 270 UP TO 1/2" DIA. USE 450 LBS. FOR TESTING LOAD. TEST 1 OUT OF 5. IN CASE OF FAILURE TEST ANOTHER 20% . 2 OUT OF 5.

SN1.....GENERAL NOTES
S1..... FLOOR/ROOF PLANS - BLDG A & B
S2..... FLOOR/ROOF PLANS - BLDG ADMIN
S3..... ROOF PLAN - BLDG C
SD1..... CONCRETE DETAILS
SD2..... RTU DETAILS
SD2A..... RTU DETAILS
SD3..... HUNG UNITS DETAILS

DESIGN LOADS:

LATITUDE: 33.765906" N
LONGITUDE: -118.003995" W

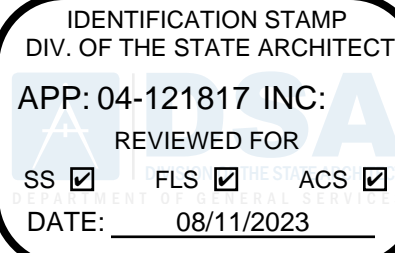
Ss = 1.413 Fa=1.2 Sds= 1.13
S1= 0.503 Fv=NA Sd1= N/A

SITE CLASS "DEFAULT"
SEISMIC DESIGN CATEGORY "D"
I = 1.25 RISK CATEGORY: III
e1=

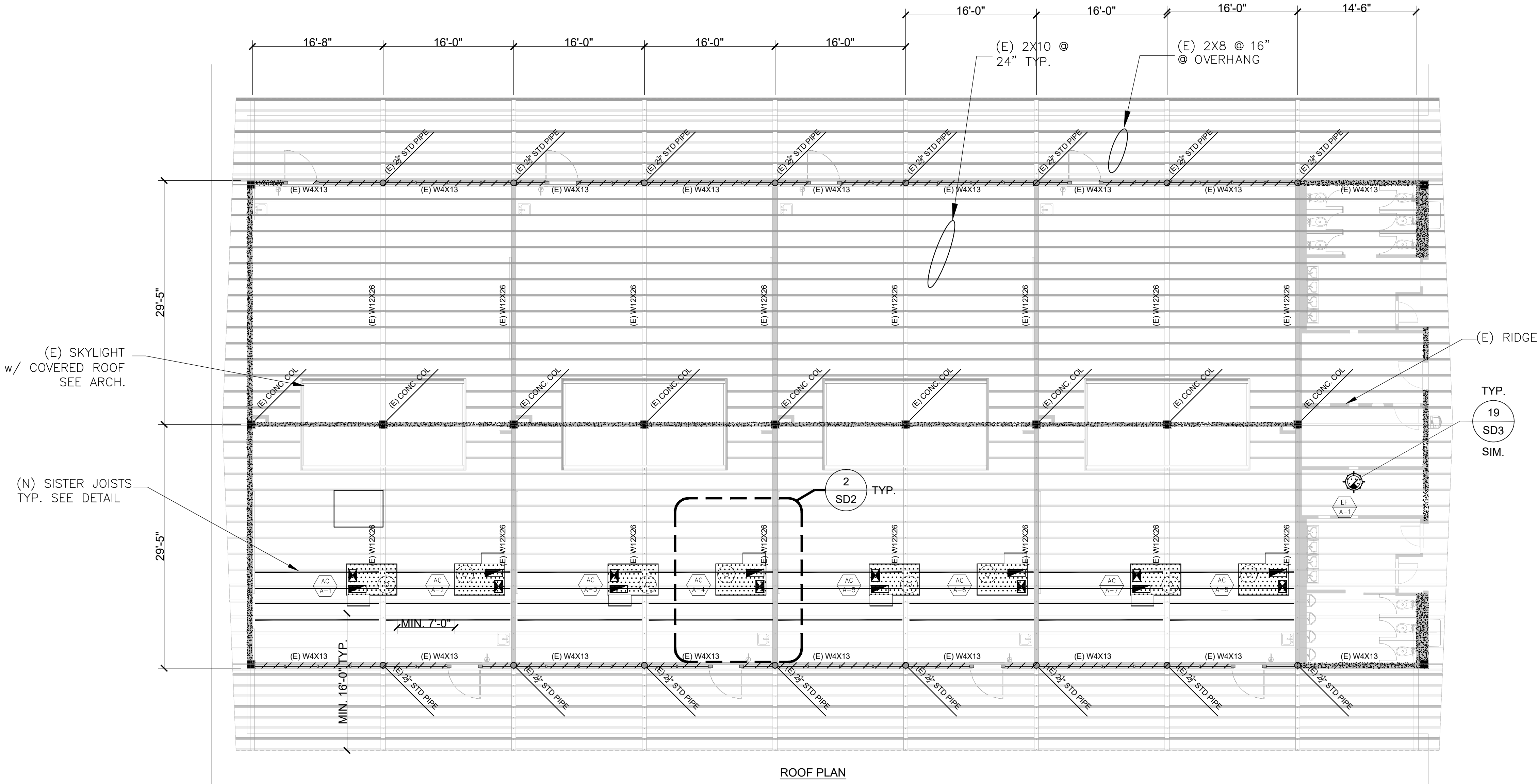
WIND CRITERIA:
BASIC WIND SPEED 101 MPH
EXPOSURE "C"
Iw = 1.00

STRUCTURAL ABBREVIATIONS

#	NUMBER OR POUNDS	FRMG.	FRAMING
CL	CENTER LINE	FLR.	FLOOR
BM.	BEAM	MTL	METAL
BEAM	BEAM	PL.	PLATE
DET.	DETAIL	REINF.	REINFORCING
CLR.	CLEAR	PLCS.	PLACES
CONT.	CONTINUOUS	P.H.	PENTHOUSE
CONC.	CONCRETE	O.C.	ON CENTER
COL.	COLUMN	NO.	NUMBER
BTWN.	BETWEEN	PSF	POUNDS PGR SQ.FT.
BOTT.	BOTTOM	N.T.S.	NOT TO SCALE
B.O.F.	BOTTOM OF FOOTING	N.I.C.	NOT IN CONTRACT
ANCH.	ANCHOR	SIMP.	SIMILAR
A.B.	ANCHOR BOLT	SEPN.	SEPARATION
DWG.	DRAWING	SECT.	SECTION
DIM.	DIMENSION	S.W.S.	SHEAR WALL
-3"	SLAB DEPRESSION	SCHL.	SCHEDULE
EA.	EACH	S.	FOOTING STEP
FIN.	FINISH	MIN.	MINIMUM
EXP.	EXPANSION	STL.	STEEL
EXIST.	EXISTING	THK.	THICK
ELECTL.	ELECTRICAL	STIFF.	STIFFENER
EL.	ELEVATION	T.O.W.	TOP OF WALL
E.W.	EACH WAY	T.O.S.	TOP OF STEEL
E.F.	EACH FACE	T.O.	TOP OF
EXTR.	EXTERIOR	DRAWINGS	
F.O.W.	FACE OF WALL	S.O.G.	SLAB ON GRADE
F.O.S.	FACE OF STUD	S.A.D.	SEE ARCHITECTURAL
F.O.C.	FACE OF CONCRETE	SYMM.	SYMMETRICAL
FDN.	FOUNDATION	SUPPT.	SUPPORT
ELEV.	ELEVATOR OR ELEVATION	STD.	STANDARD
GA.	GAUGE	SQ.	SQUARE
JT.	JOINT	V.O.S.	VERIFY ON SITE
INTR.	INTERIOR	V.O.J.	VERIFY ON JOB
MFR.	MANUFACTURER	TYP.	TYPICAL
B.	MECHANICAL	SPEC.	SPECIFICATION
MAX.	MAXIMUM	U.N.O.	UNLESS NOTED OTHERWISE
M.B.	MACHINE BOLT	DWL	DOWEL
LT.	WT. LIGHTWEIGHT	WT.	WITH
HORIZ.	HORIZONTAL	W/.	WEIGHT
H.S.B.	HIGH STRENGTH BOLT	WJ.	WALL JOINT
GR.	GRADE BEAM	VERT.	VERTICAL
FRT.	FIRE RETARDANT		



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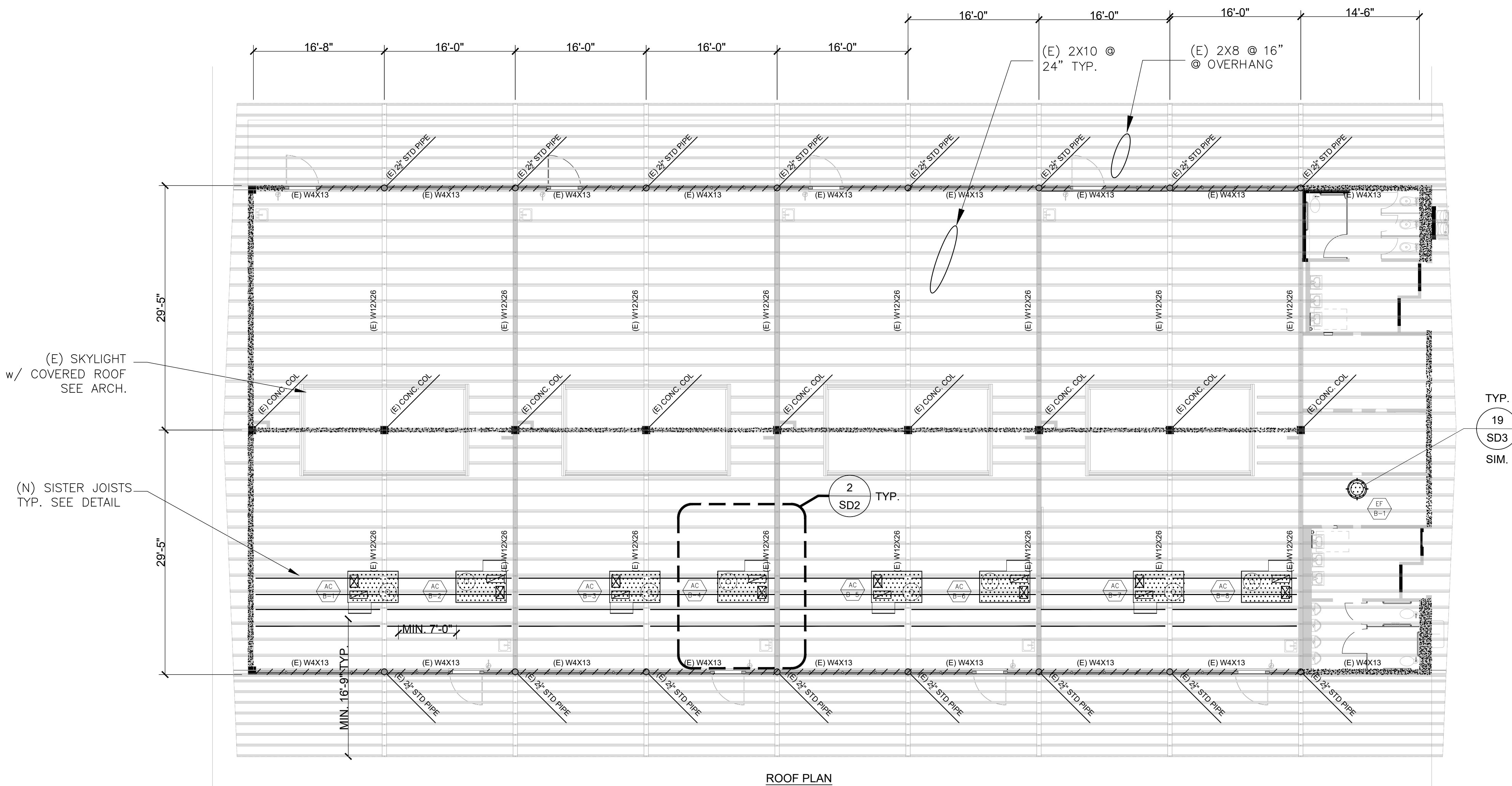


ROOF PLAN

FLOOR PLAN/ROOF PLAN - BLDG A

1/8" = 1'-0"

2



ROOF PLAN

FLOOR PLAN/ROOF PLAN - BLDG B

1/8" = 1'-0"

1

1. THE MAXIMUM OPERATIONAL WEIGHTS OF NEW UNITS ARE LISTED IN THE ANCHORAGE SCHEDULE IN DETAIL 18/SD2. EXACT SIZE AND WEIGHT OF UNITS MAY SLIGHTLY DIFFER FROM THE ONES SPECIFIED ON THESE DRAWINGS/SCHEDULE. SHOULD THE ACTUAL WEIGHT OF ANY UNITS EXCEED MORE THAN 10% OF THE LISTED WEIGHTS, IMMEDIATELY NOTIFY SE OR AND DSA DISTRICT ENGINEER FOR FURTHER INSTRUCTION.
2. THE OPERATABLE WEIGHT OF UNITS SHALL BE LESS OR EQUAL TO THE VALUES SHOWN. CONTRACTOR SHALL NOTIFY SEOR ABOUT HEAVIER UNITS. (MORE THAN 5% OF LISTED VALUES)
3. UNIT DIMENSION SHOWN HERE REPRESENT THE BEST ESTIMATE BASED ON THE AVAILABLE DATA.
4. MINOR ADJUSTMENTS IN UNIT POSITION WITH RESPECT TO EXISTING ROOF FRAMING MAY BE NECESSARY TO MISS CONFLICT, ALIGN NEW BLOCKINGS TO MATCH THE EXACT UNIT LOCATION/DIMENSIONS.
5. FINAL CONFIGURATION OF EACH UNIT, WITH RESPECT TO THE EXISTING ROOF FRAMING, SHALL BE FIELD VERIFY TO AVOID CONFLICT.
6. THE EXACT LOCATION AND SIZE OF MECH. UNIT SHALL BE VERIFIED BY VENDOR/INSTALLER IN COORDINATION WITH THE LATEST MECH. DRAWING/ CUT SHEETS.

- A. PRIOR TO DEMOLITION WORK, SEE GENERAL NOTES ON SN1. FOR EXACT EXTENT OF DEMOLITION WORK REFER TO THE ARCH. DWG/S.
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- D. IF EXISTING MEMBERS ARE SMALLER THAN WHAT IS SHOWN IN DRAWINGS AND CONSIDERED IN CALCULATIONS, PLEASE NOTICE SEOR FOR DETAIL OR FURTHER INFO

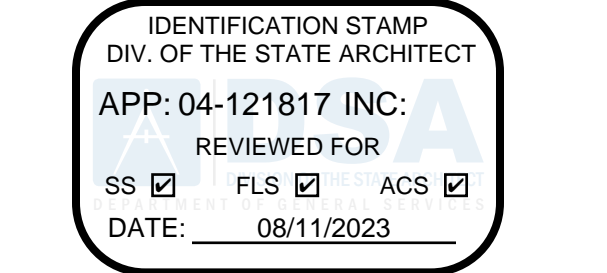
LEGEND

	(E) W12X @ 16'-0" o.c., V.O.S., PER PLAN SEE NOTE A-D
	(E) HEADER, V.O.S., PER PLAN, SEE NOTES A-D
	(E) ROOF FRAMING, PER PLAN, SEE NOTES A-D
	(E) STL POST, V.O.S.
	(N) MATCHING SISTER JOIST, PER PLAN FOR EXACT LOCATION, SEE DETAIL 2/SD2
	(N) CONG. SLAB-ON-GRADE
	(N) ROOFTOP UNIT, PER PLAN, SEE 2/SD2 SEE NOTE 1-7
	(N) SUSPENDED UNIT, PER PLAN, SEE 4/SD3 SEE NOTE 1-7
	(N) HVAC UNIT, PER MECH. PLANS SEE NOTE 1-7
	DUCT THROUGH ROOF PENETRATION PER MECH.

EQUIPMENT SCHEDULE (*)			
UNIT DESCRIPTION	(+)OVERALL WEIGHT(LBS)	DIMENSIONS	DETAIL REF.
AIR CONDITIONER (ON ROOF)			
EXHAUST FAN	58		

(*) SUBJECT TO CHANGE REFER TO LATEST MECHANICAL PACKAGE. SEE NOTES 1-7

(+) AC UNIT WEIGHT INCLUDES RTU SELF WEIGHT AND WEIGHT OF MECH. CURB

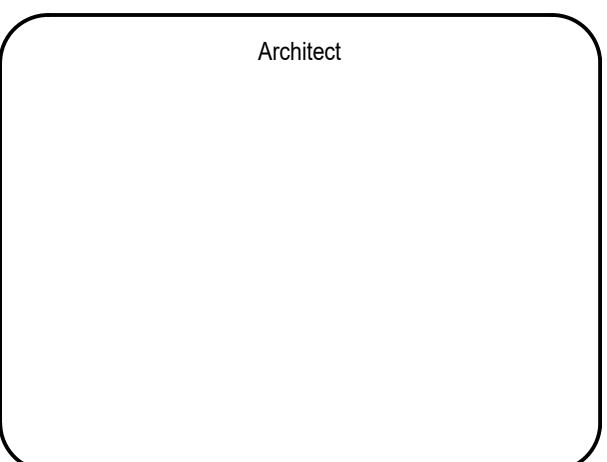
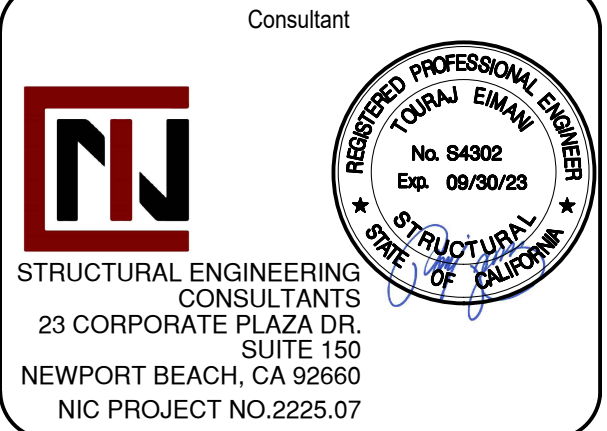
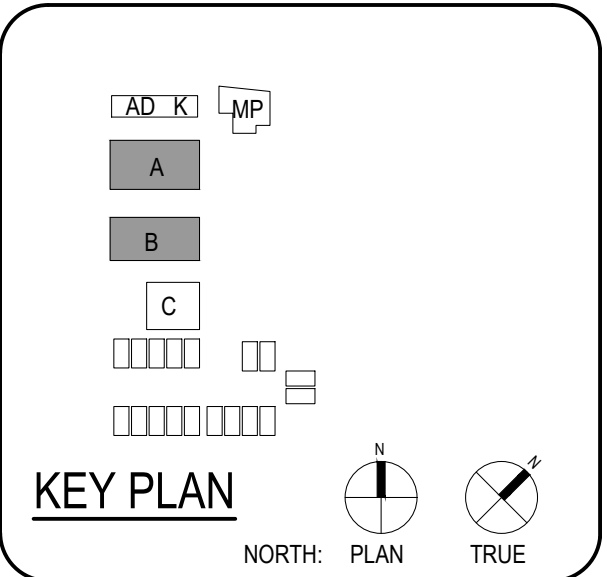


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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

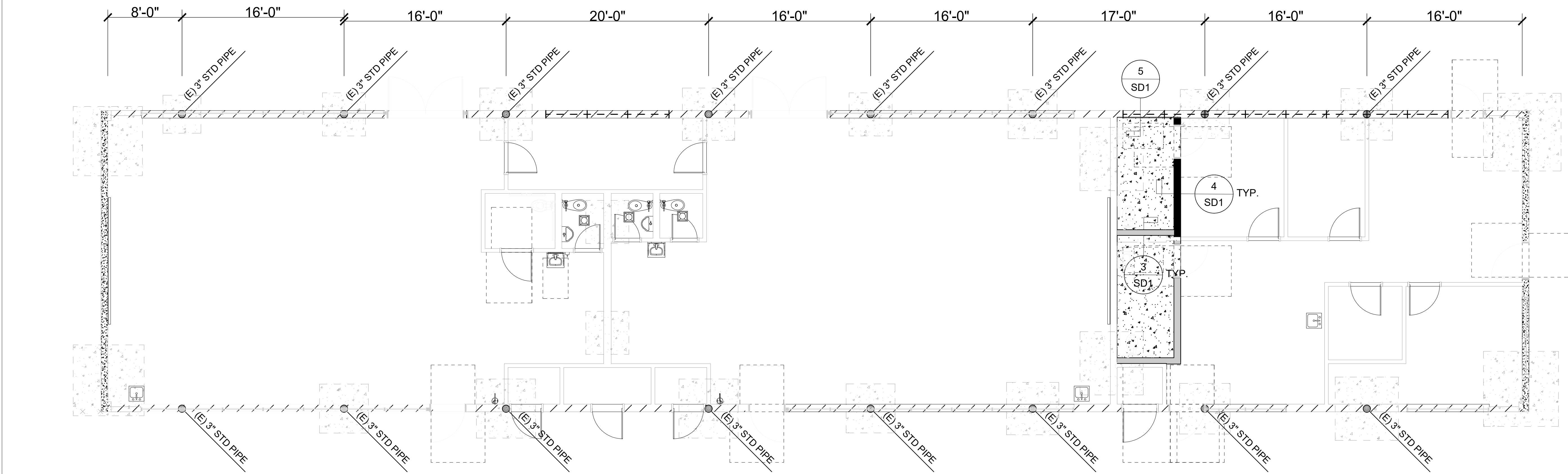
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DSA APPL NO. ##-#### DSA FILE NO. ##-##



REVISIONS		
No.	Description	Date

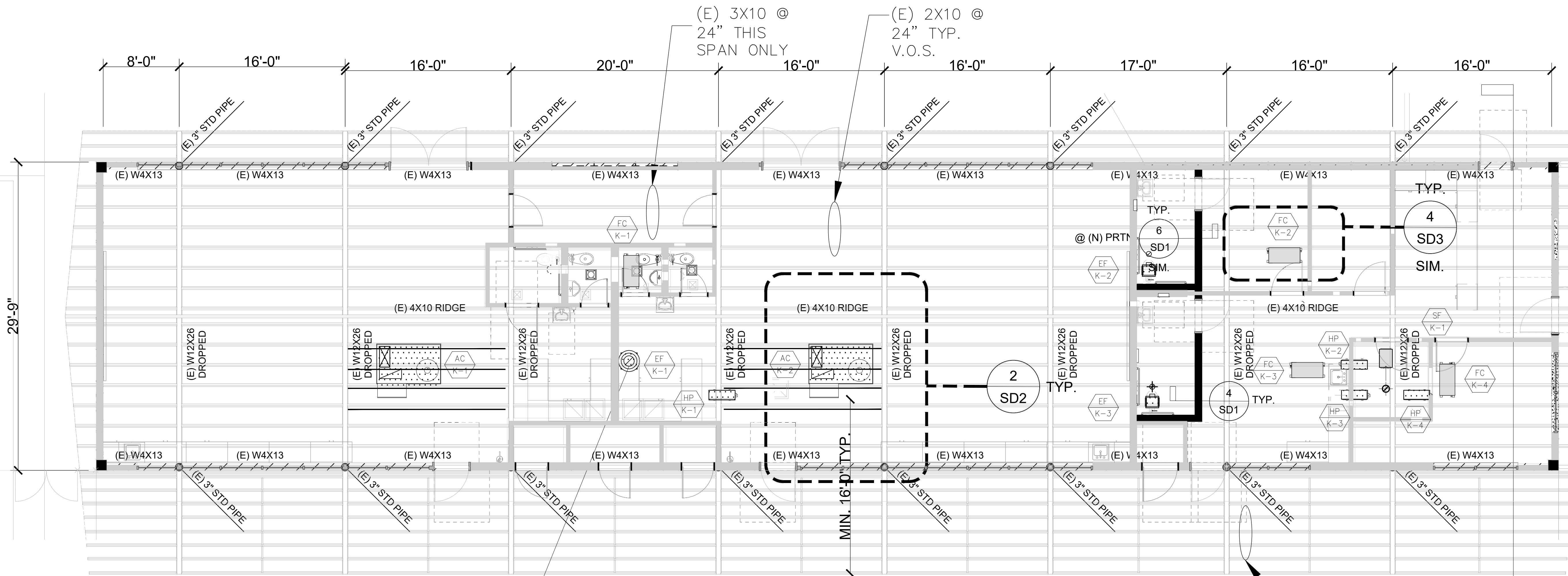
DSA SUBMITTAL
FLOOR/ROOF PLANS -
BLDG A & B



FLOOR PLAN

FLOOR PLAN - ADMIN. KINDERGARTEN
3/16" = 1'-0"

2



ROOF PLAN

ROOF PLAN - ADMIN. KINDERGARTEN
3/16" = 1'-0"

1

1. THE MAXIMUM OPERATIONAL WEIGHTS OF NEW UNITS ARE LISTED IN THE ANCHORAGE SCHEDULE IN DETAIL 18/SD2. EXACT SIZE AND WEIGHT OF UNITS MAY SLIGHTLY DIFFER FROM THE ONES SPECIFIED ON THESE DRAWINGS/SCHEDULE. SHOULD THE ACTUAL WEIGHT OF ANY UNITS EXCEED MORE THAN 10% OF THE LISTED WEIGHTS, IMMEDIATELY NOTIFY SE OR AND DSA DISTRICT ENGINEER FOR FURTHER INSTRUCTION.
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LEGEND

	(E) W12X @ 16'-0" o.c., V.O.S., PER PLAN SEE NOTE A-D
	(E) HEADER, V.O.S., PER PLAN, SEE NOTES A-D
	(E) ROOF FRAMING, PER PLAN, SEE NOTES A-D
	(E) STL POST, V.O.S.
	(N) MATCHING SISTER JOIST, PER PLAN FOR EXACT LOCATION, SEE DETAIL 2/SD2
	(N) CONC. SLAB-ON-GRADE
	(N) ROOFTOP UNIT, PER PLAN, SEE 2/SD2 SEE NOTE 1-7
	(N) SUSPENDED UNIT, PER PLAN, SEE 4/SD3 SEE NOTE 1-7
	(N) HVAC UNIT, PER MECH. PLANS SEE NOTE 1-7
	DUCT THROUGH ROOF PENETRATION PER MECH.

EQUIPMENT SCHEDULE (*)

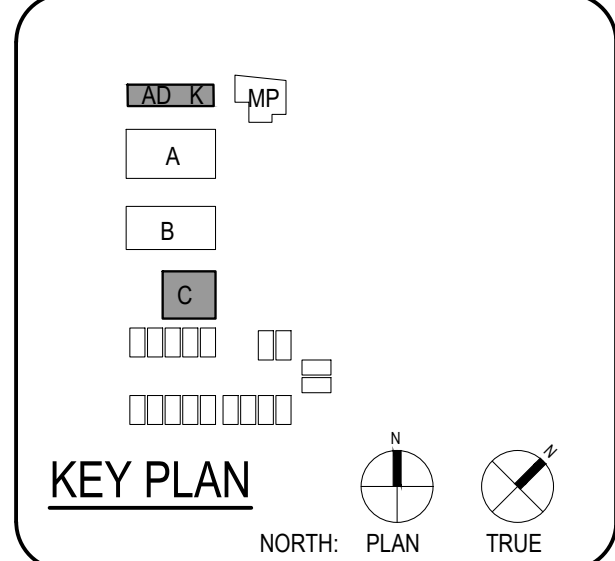
UNIT DESCRIPTION	(+) OVERALL WEIGHT(LBS)	DIMENSIONS	DETAIL REF.
AIR CONDITIONER (ON ROOF)	930	74"L x 44"W x 33"H	4/302
HEAT PUMP (ON ROOF)	75...101		4/302 SIM.
FAN COIL (SUSPENDED)	40...54		4/303
EXHAUST FAN	15...74		

(*) SUBJECT TO CHANGE REFER TO LATEST MECHANICAL PACKAGE. SEE NOTES 1-7

(+) AC UNIT WEIGHT INCLUDES RTU SELF WEIGHT AND WEIGHT OF MECH. CURB

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

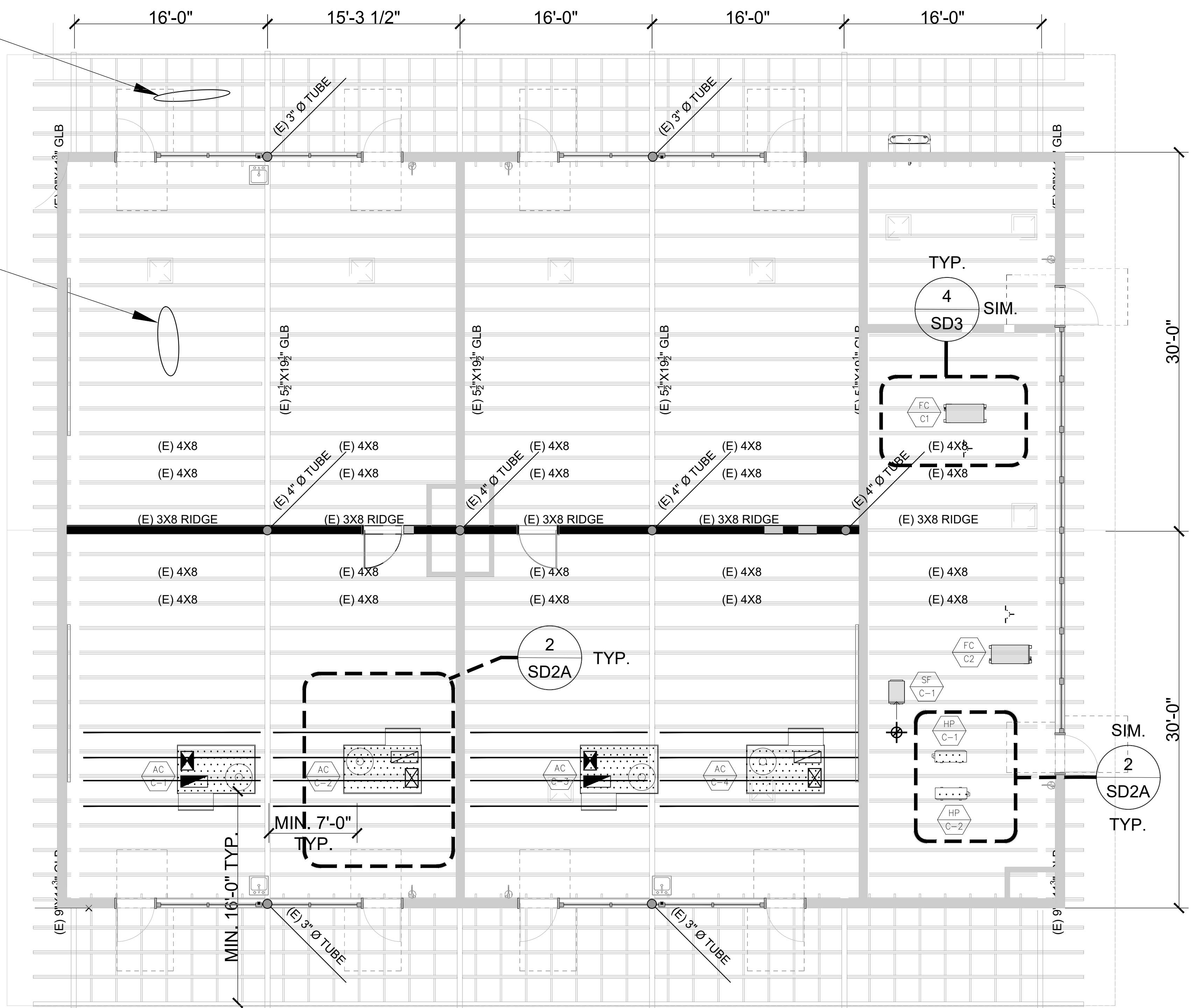
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DSA APPL. NO. ##-#### DSA FILE NO. ##-##



REVISIONS		
No.	Description	Date

(E) 2X4 @
24" TYP.

(E) 2X8 @
24" TYP.



1. THE MAXIMUM OPERATIONAL WEIGHTS OF NEW UNITS ARE LISTED IN THE ANCHORAGE SCHEDULE IN DETAIL 18/SD2A. EXACT SIZE AND WEIGHT OF UNITS MAY SLIGHTLY DIFFER FROM THE ONES SPECIFIED ON THESE DRAWINGS/SCHEDULE. SHOULD THE ACTUAL WEIGHT OF ANY UNITS EXCEED MORE THAN 10% OF THE LISTED WEIGHTS, IMMEDIATELY NOTIFY SE OR AND DSA DISTRICT ENGINEER FOR FURTHER INSTRUCTION.
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LEGEND	
	(E) GLB @ 16'-0" o.c., V.O.S., PER PLAN SEE NOTE A-D
	(E) HEADER, V.O.S., PER PLAN, SEE NOTES A-D
	(E) ROOF FRAMING, PER PLAN, SEE NOTES A-D
	(E) STL POST, V.O.S.
	(N) MATCHING SISTER JOIST, PER PLAN FOR EXACT LOCATION, SEE DETAIL 2/SD2
	(N) CONC. SLAB-ON-GRADE
	(N) ROOFTOP UNIT, PER PLAN, SEE 2/SD2A SEE NOTE 1-7
	(N) SUSPENDED UNIT, PER PLAN, SEE 4/SD3 SEE NOTE 1-7
	(N) HVAC UNIT, PER MECH. PLANS SEE NOTE 1-7
	DUCT THROUGH ROOF PENETRATION PER MECH.

EQUIPMENT SCHEDULE (*)			
UNIT DESCRIPTION	(+) OVERALL WEIGHT(LBS)	DIMENSIONS	DETAIL REF.
AIR CONDITIONER (ON ROOF)	762	74"L x 44"W x 33"H	4/SD2A
HEAT PUMP (ON ROOF)	75..135		4/SD2A SIM.
FAN COIL (SUSPENDED)	40...87		4/SD3

(*) SUBJECT TO CHANGE REFER TO LATEST MECHANICAL PACKAGE. SEE NOTES 1-7

(*) AC UNIT WEIGHT INCLUDES RTU SELF WEIGHT AND WEIGHT OF MECH. CURB

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK
ARCHITECT PBK Architects, Inc.
COSTA MESA
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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO. : ##-#### DSA FILE NO. : ##-##

Consultant
NE
STRUCTURAL ENGINEERING CONSULTANTS
23 CORPORATE PLAZA DR., SUITE 150
NEWPORT BEACH, CA 92660
NIC PROJECT NO.2225.07

Architect

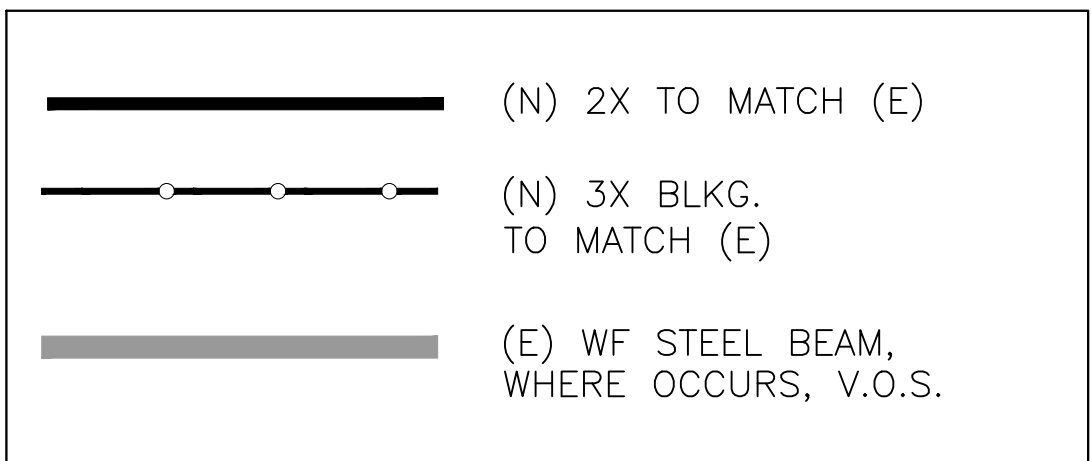
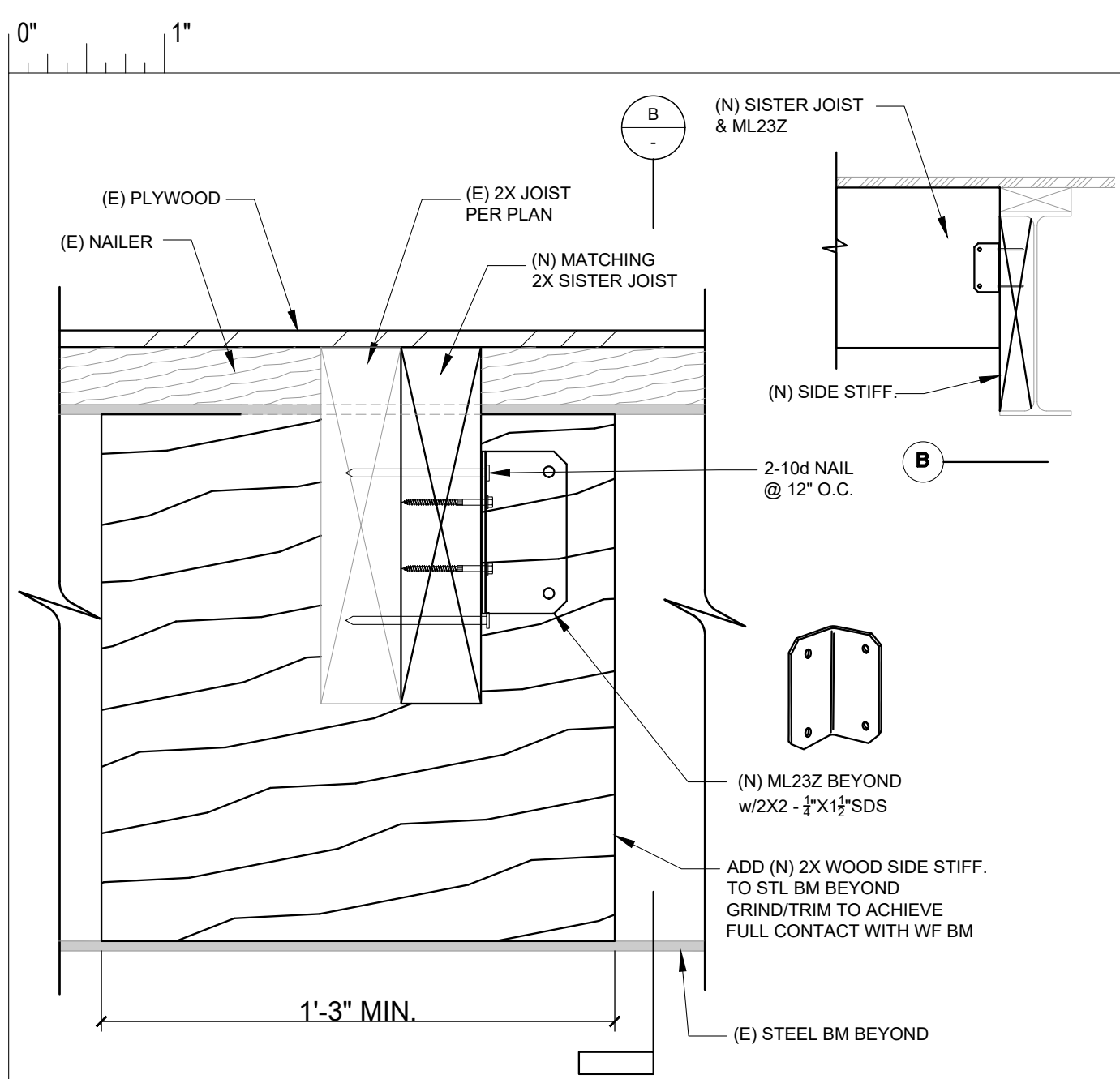
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE: PROJECT NUMBER: 000000

REVISIONS
No. Description Date

DSA SUBMITTAL

ROOF PLAN -
BLDG C

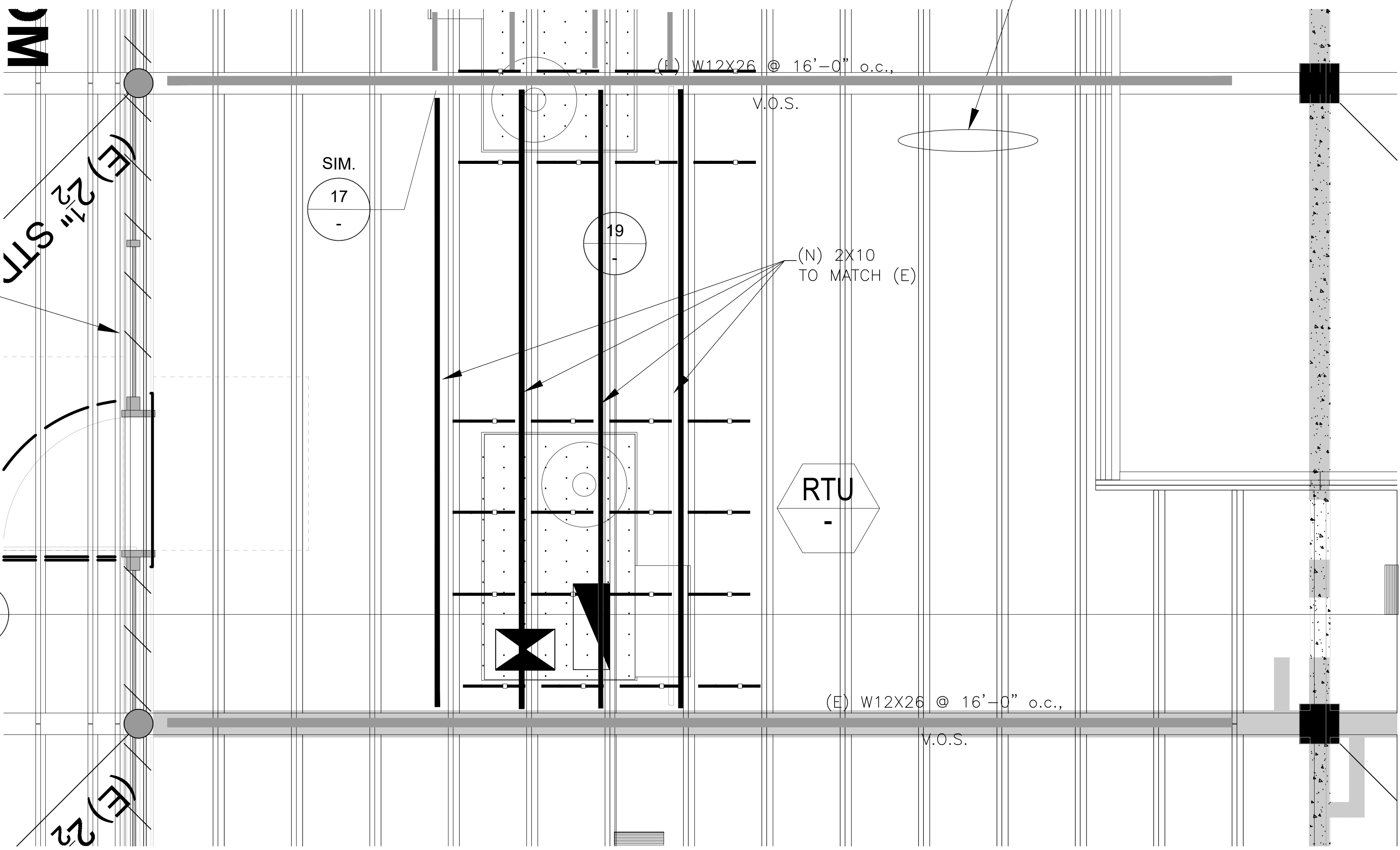
S3



(*)EXACT FRAMING CONFIGURATION AND SIZES MAY VARY ON DIFFERENT AREAS SEE CONFIG./OPTIONS BELOW

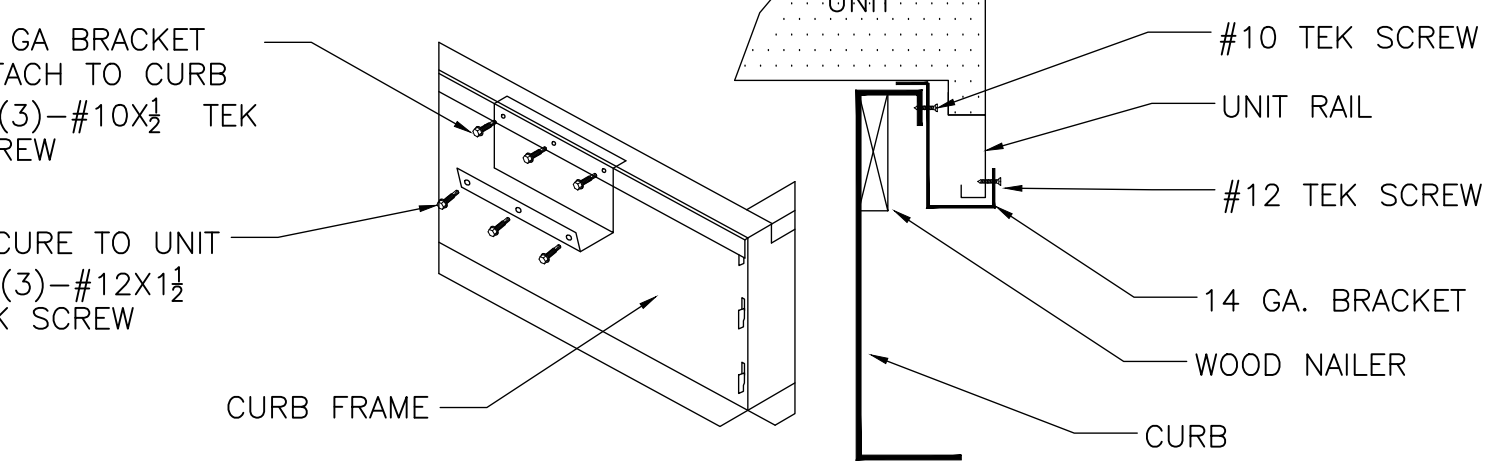
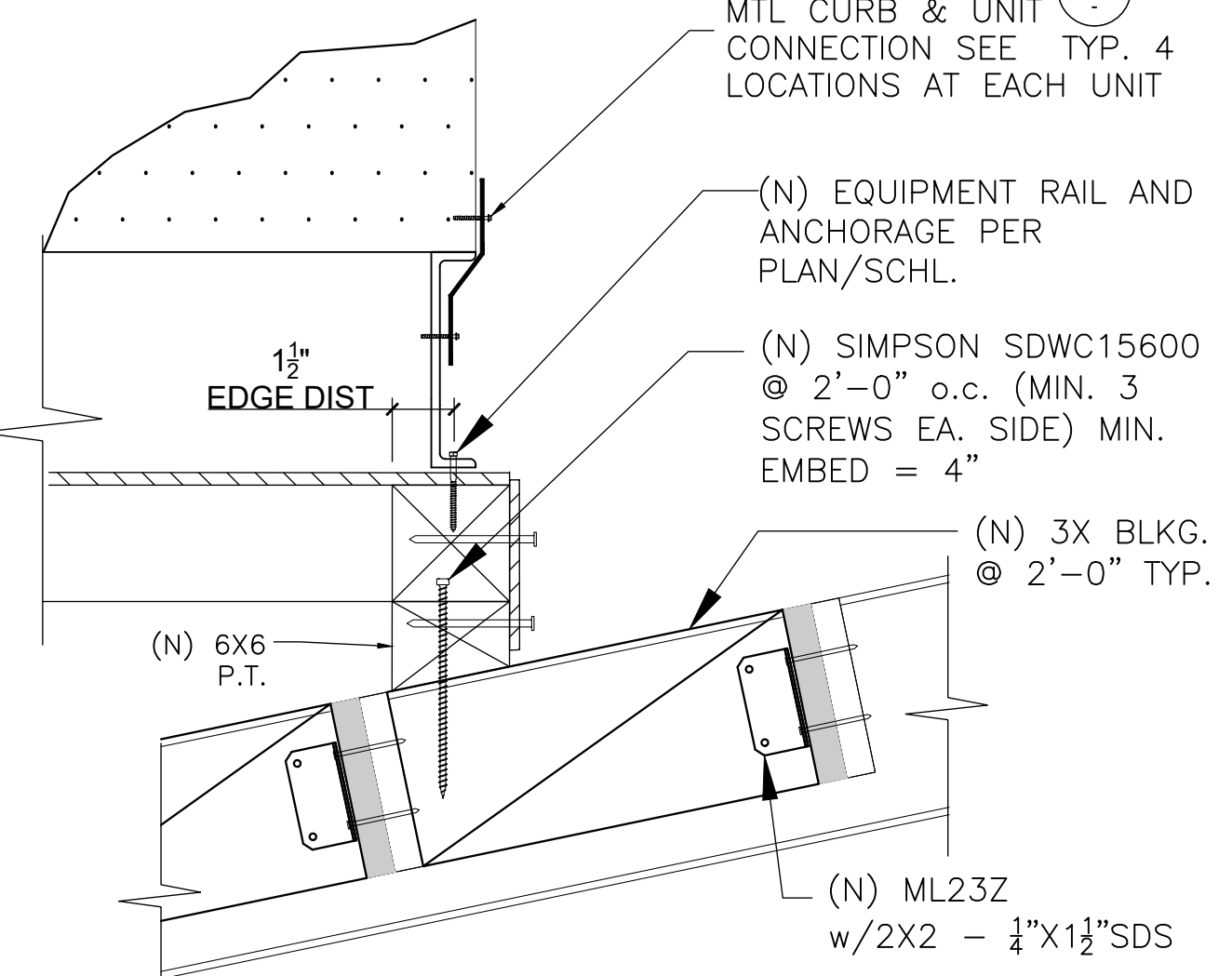
(**)FOR DIMENSION/LOCATION OF NEW UNITS, SEE NOTE 1-7 ON ROOF PLANS

(E) 9" BRICK WALL (V.O.S.)



REINFORCED SUBPURLIN @ ROOF 17

RTU ANCHORAGE SCHEDULE		
UNIT SYMBOL	MAX. WEIGHT	FASTENER
RTU	930 LB	(3)-3/8" LAG SCREW LONG SIDE (2)-3/8" LAG SCREW SHORT SIDE MIN PENETRATION = 3/4"

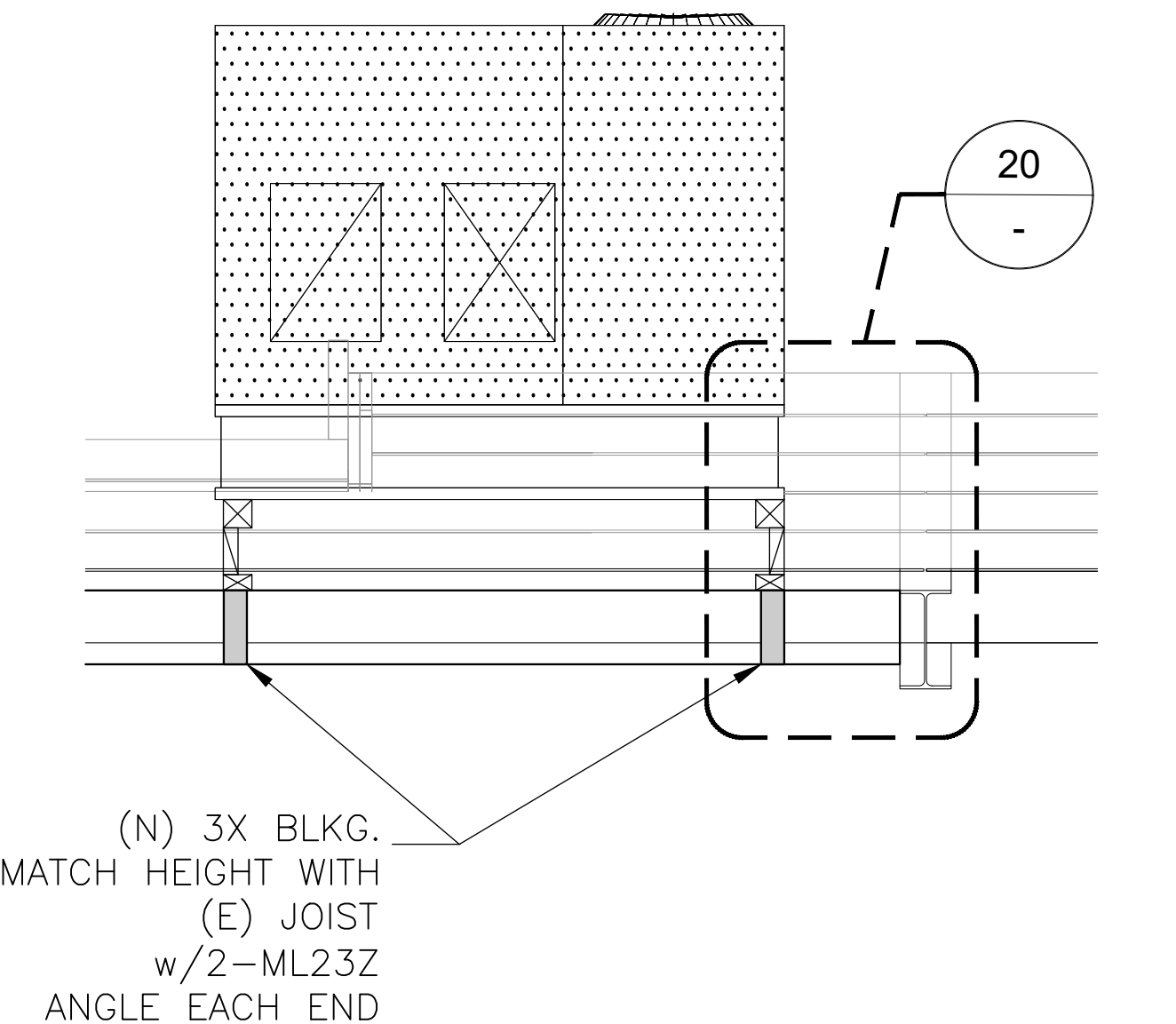


RTU TO CURB CONN. (TYP. TWO ON EA. SIDE)

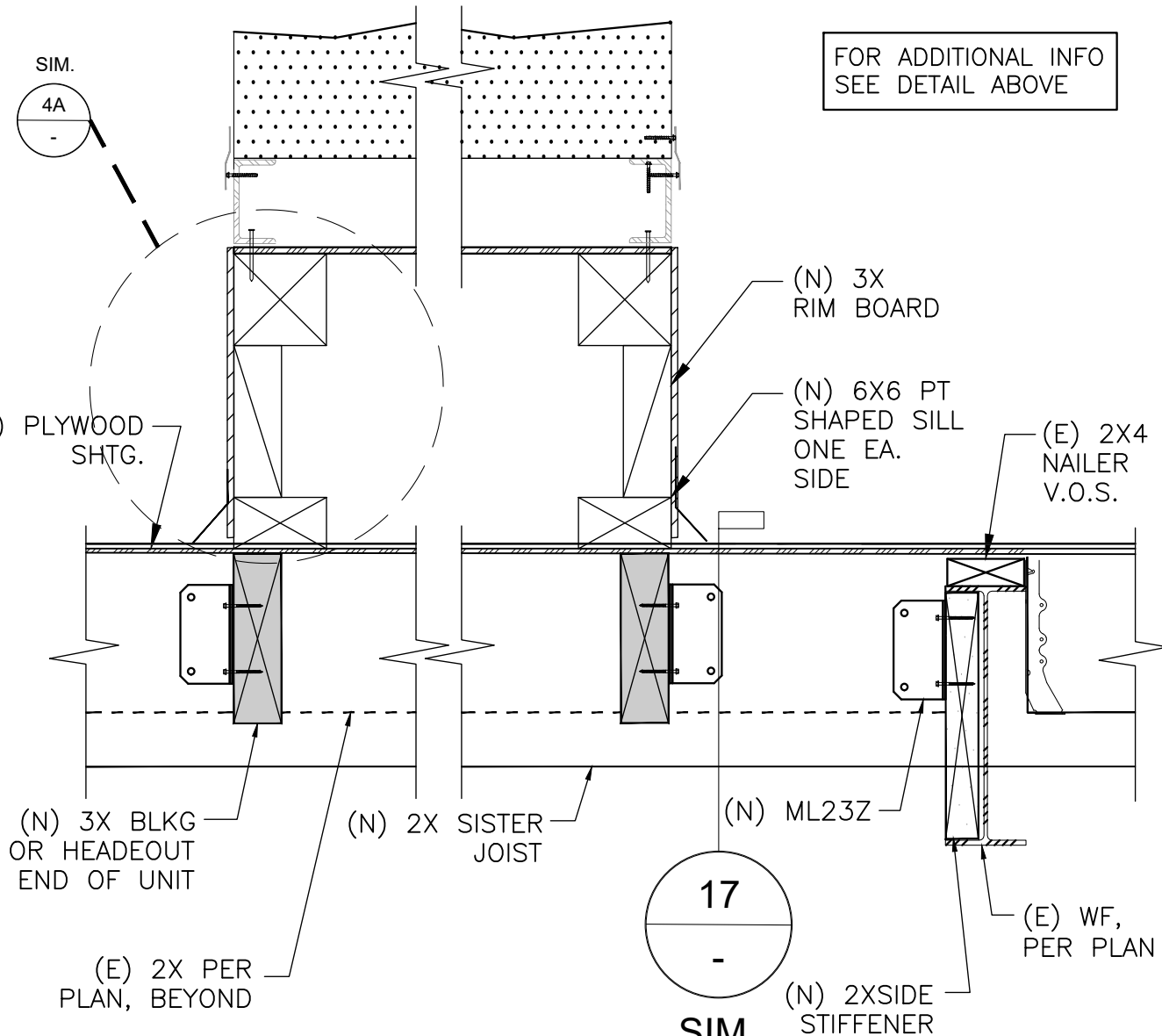
DETAIL 18

NEW MECH. UNIT @ CLASSROOM

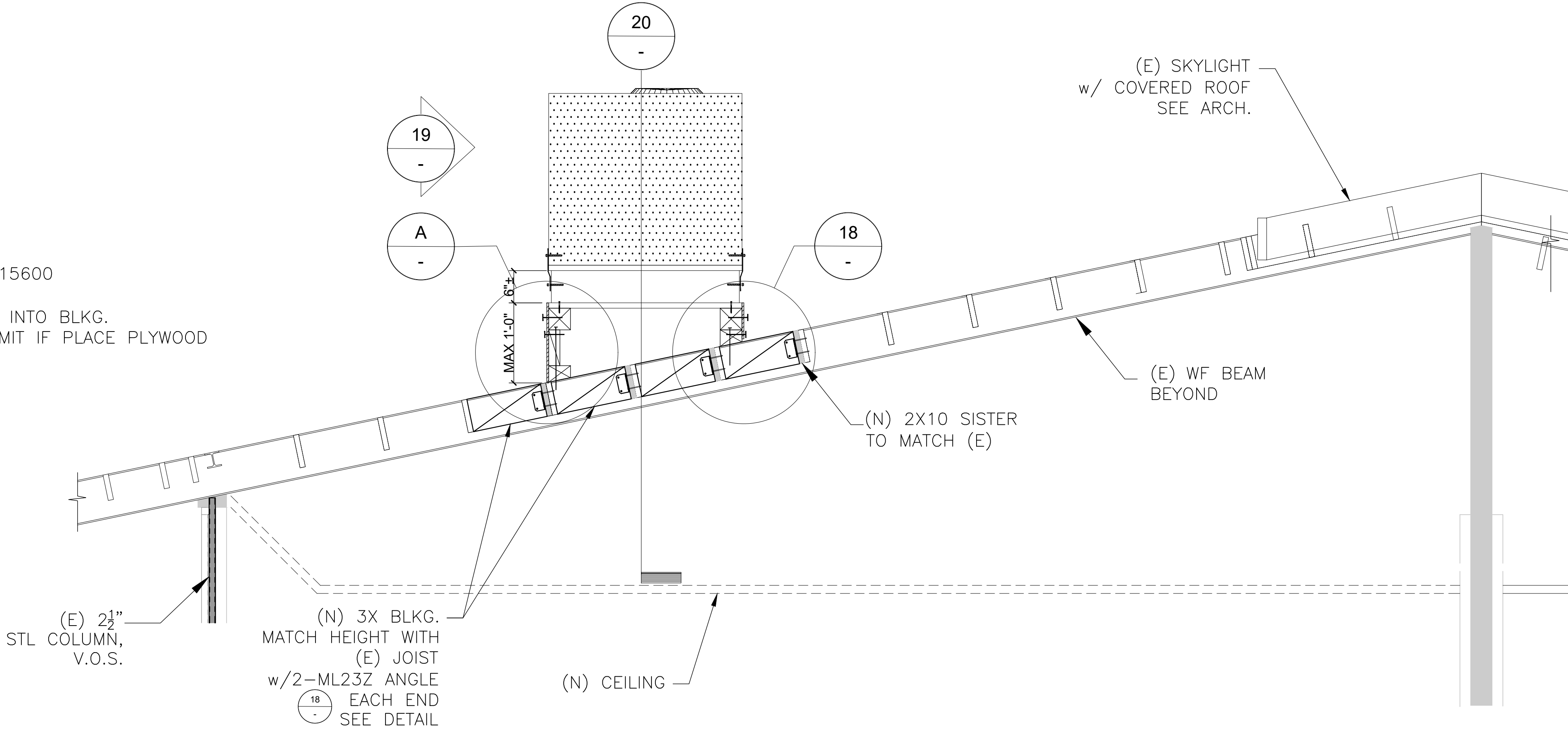
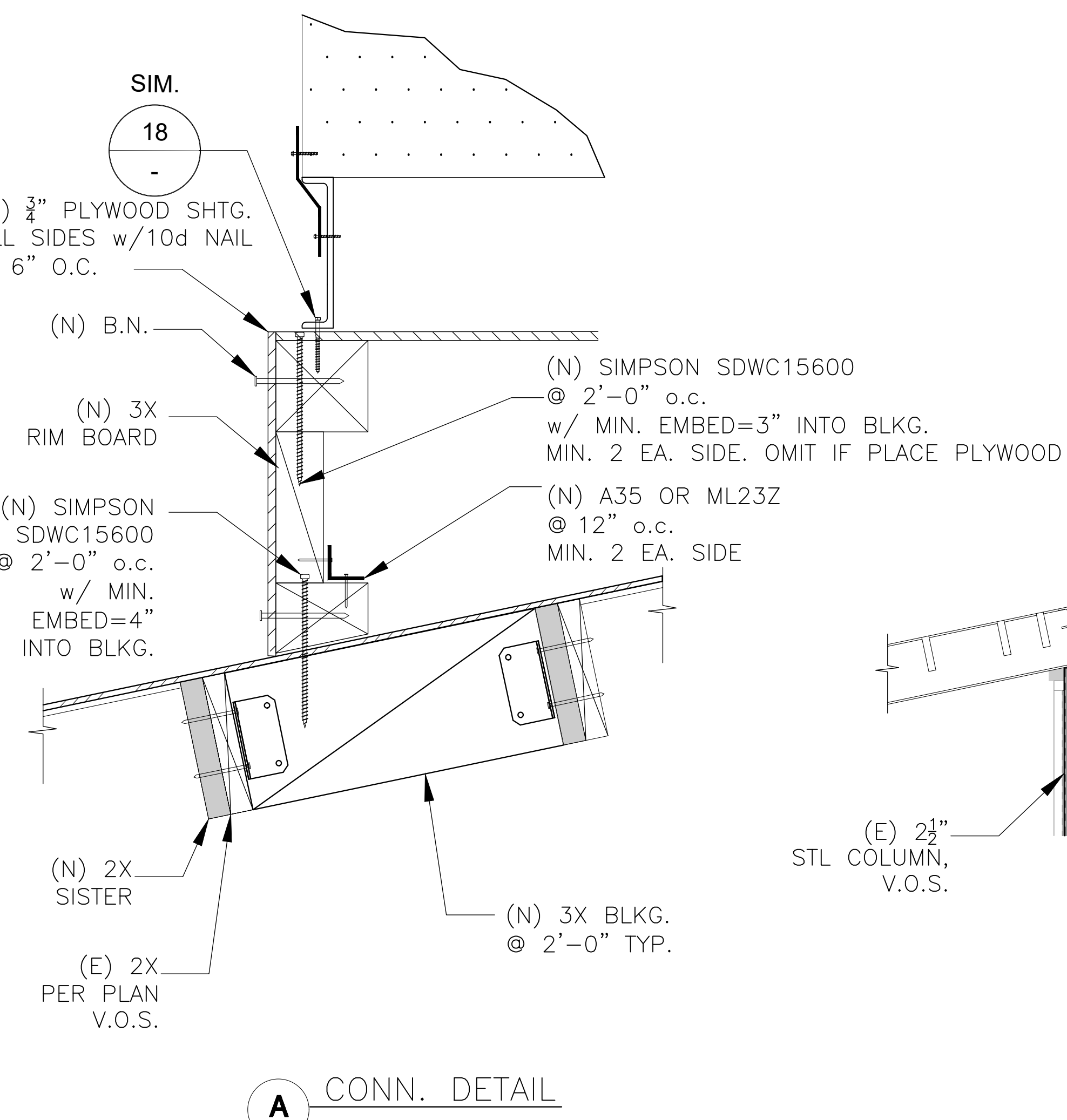
2



ELEVATION VIEW 19



DETAIL 20



NEW MECH. UNIT @ CLASSROOM

4

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PBK

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P 949-545-2000

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:

1442 Hoover St

Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO. ##-####

DSA FILE NO. ##-##

AD X

MP

A

B

C

KEY PLAN

NORTH

PLAN

TRUE

Consultant

STRUCTURAL ENGINEERING

CONSULTANTS

23 CORPORATE PLAZA DR.

SUITE 150

NEWPORT BEACH, CA 92660

NIC PROJECT NO.2225.07

REGISTERED PROFESSIONAL ENGINEER

NO. 84302

EXP. 08/30/23

STRUCTURAL

STATE OF CALIFORNIA

Architect

CLIENT

WESTMINSTER SCHOOL DISTRICT

DATE

PROJECT NUMBER

000000

REVISIONS

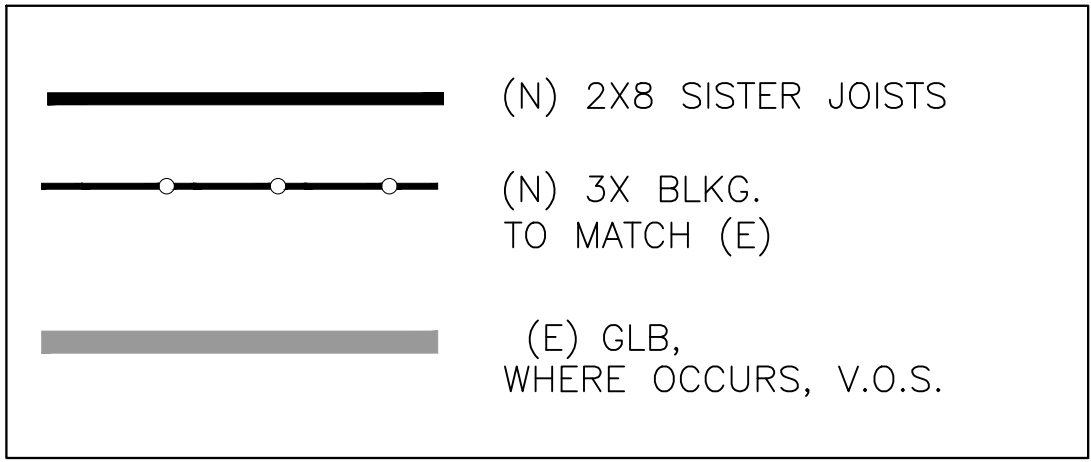
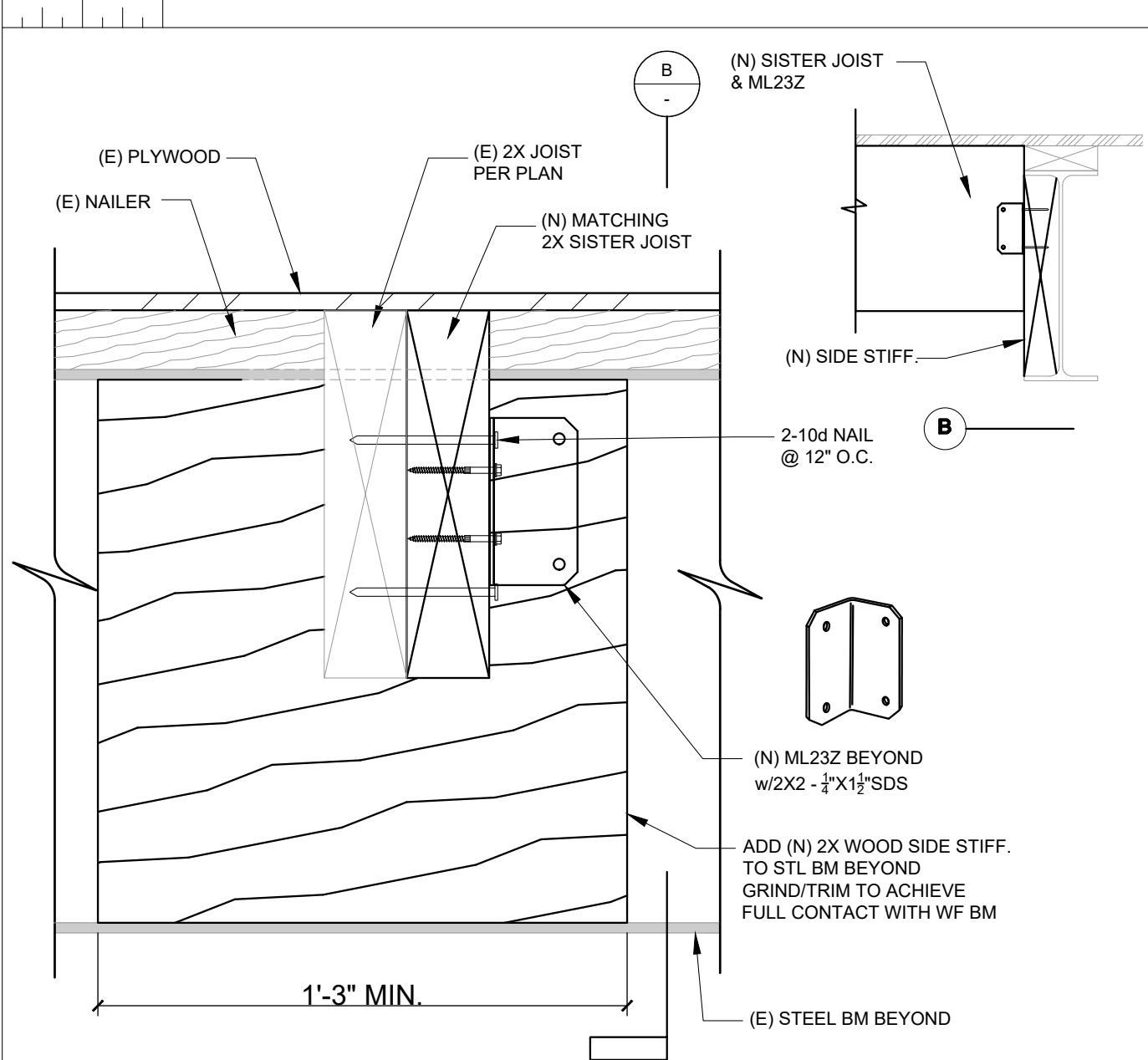
No.	Description	Date

DSA SUBMITTAL

RTU DETAILS

SD2

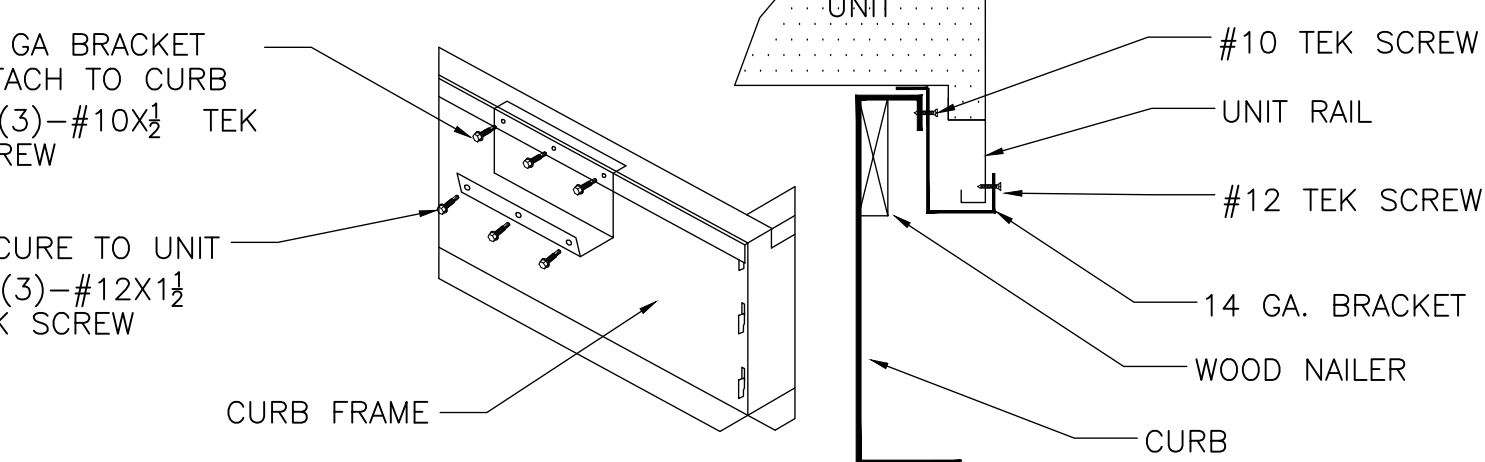
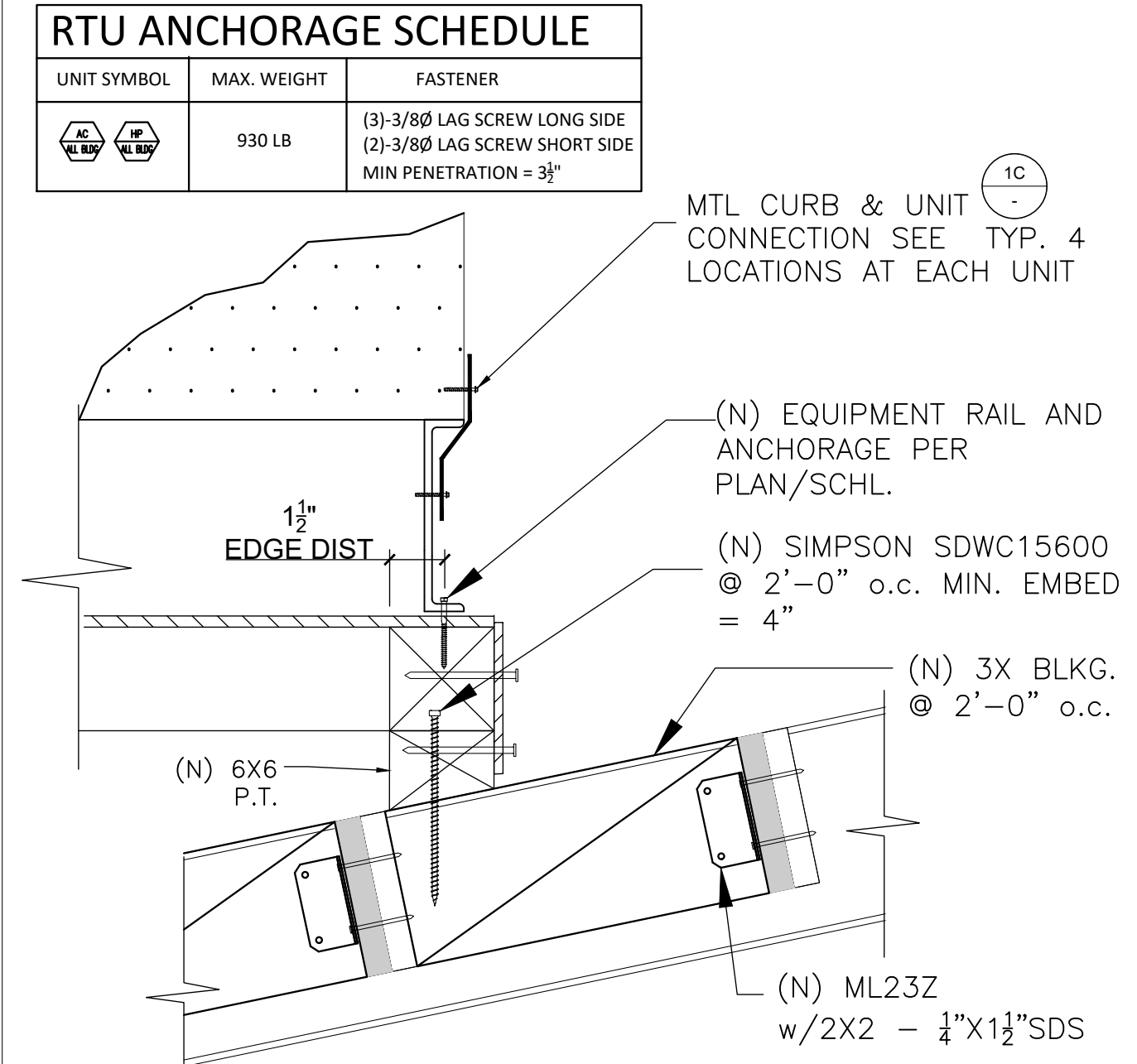
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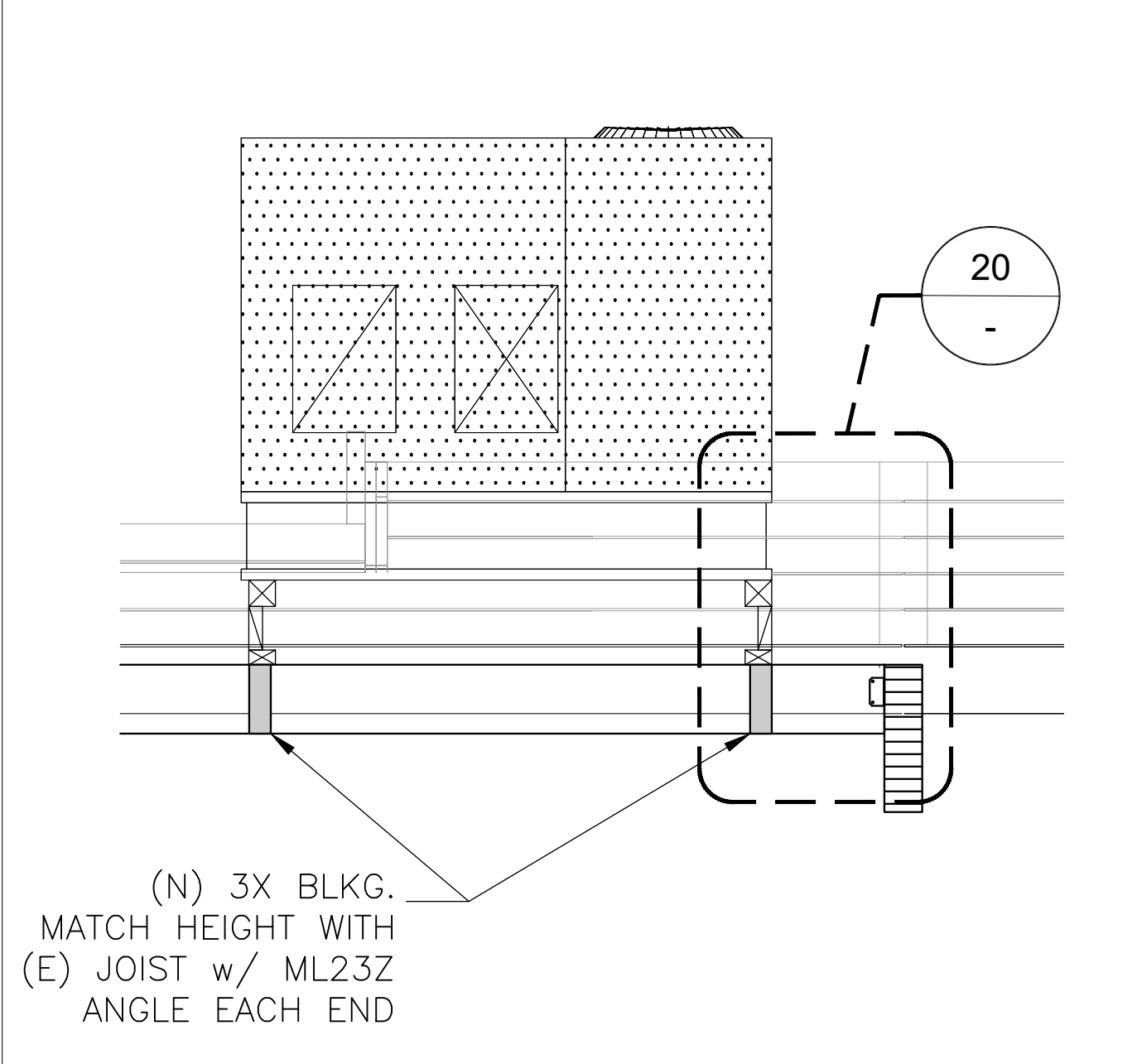
(*)EXACT FRAMING CONFIGURATION AND SIZES MAY VARY ON DIFFERENT AREAS SEE CONFIG./OPTIONS BELOW

(**)FOR DIMENSION/LOCATION OF NEW UNITS, SEE NOTE 1-7 ON ROOF PLANS

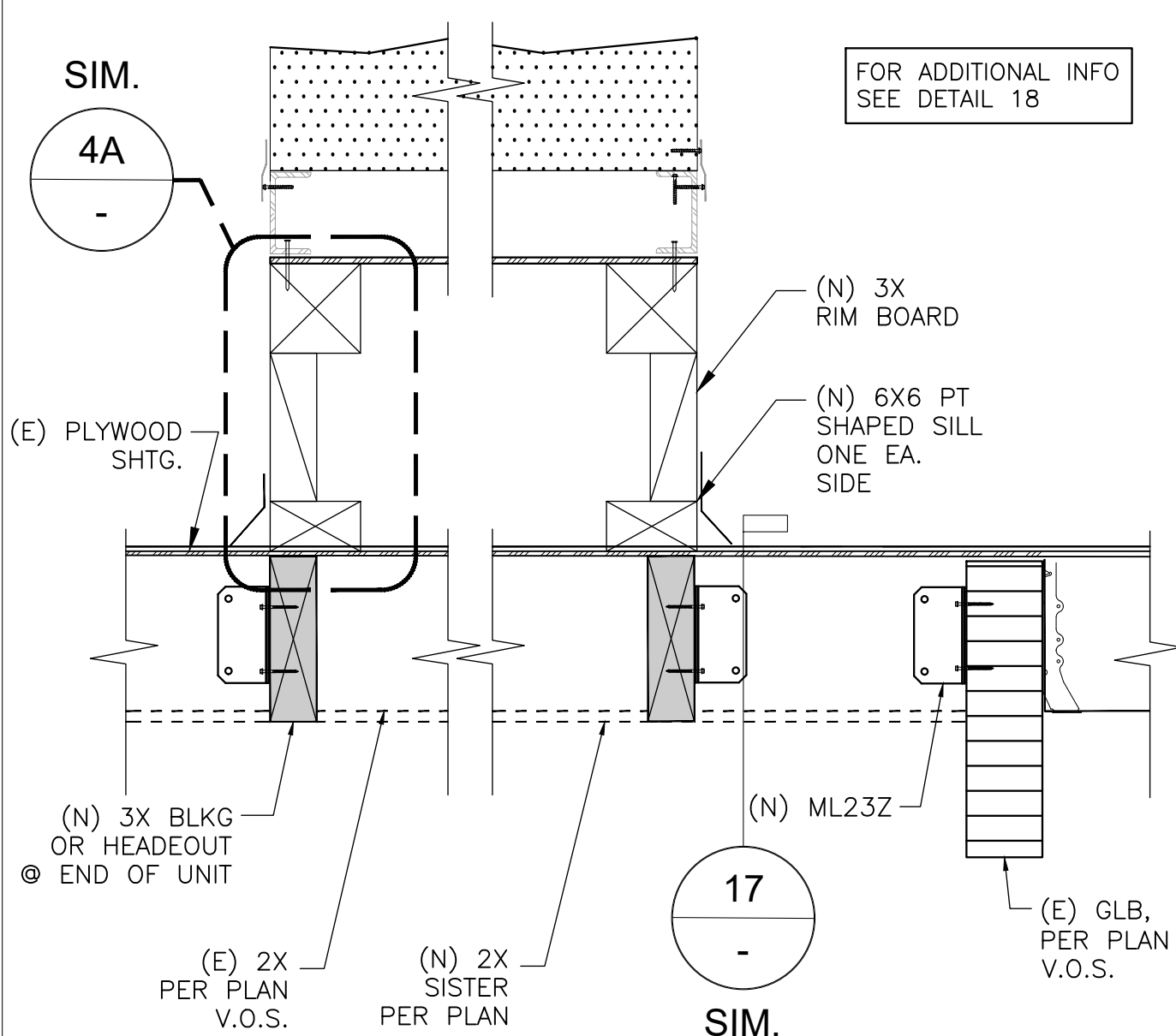
REINFORCED SUBPURLINE @ ROOF 17



DETAIL 18

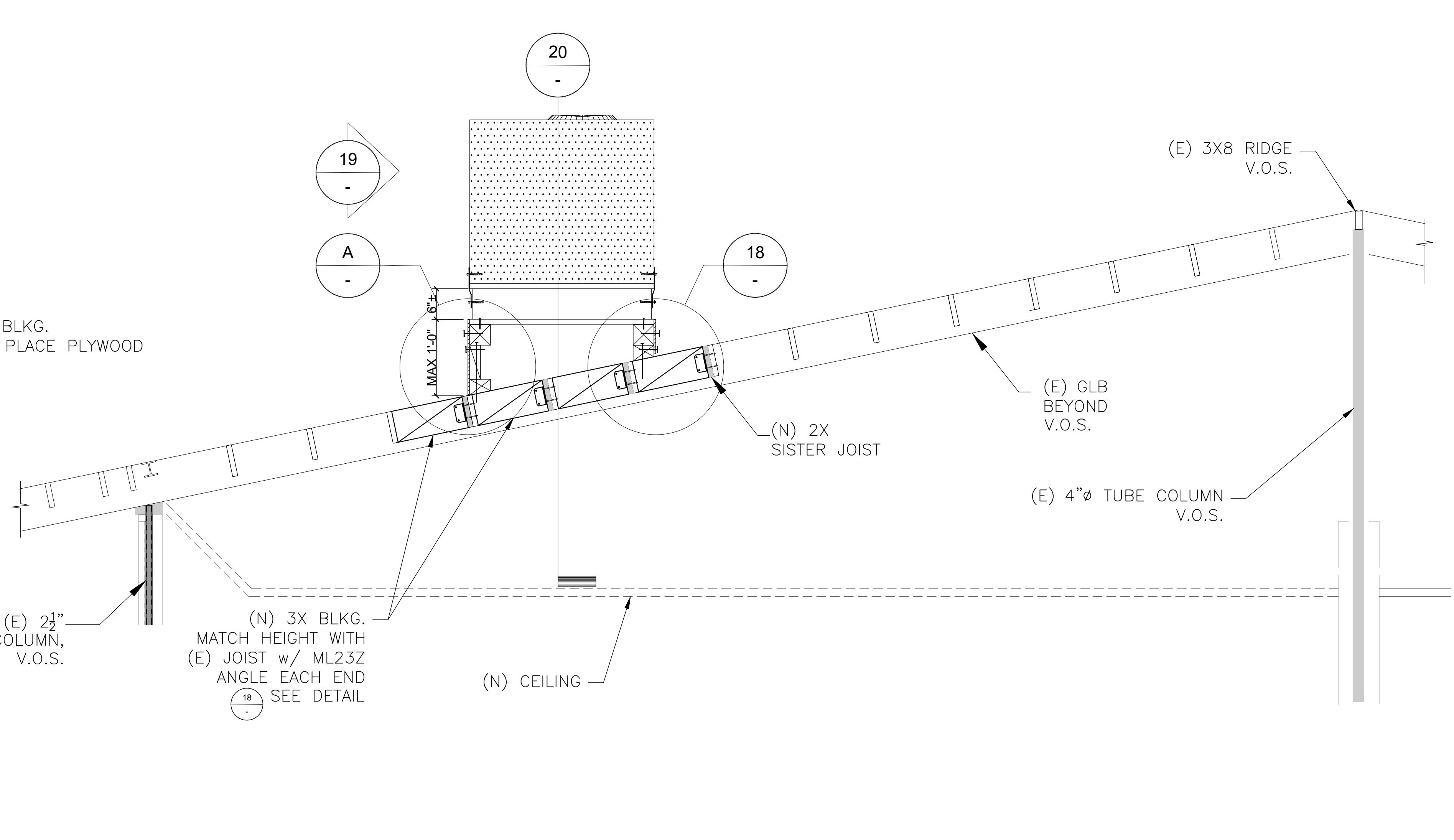
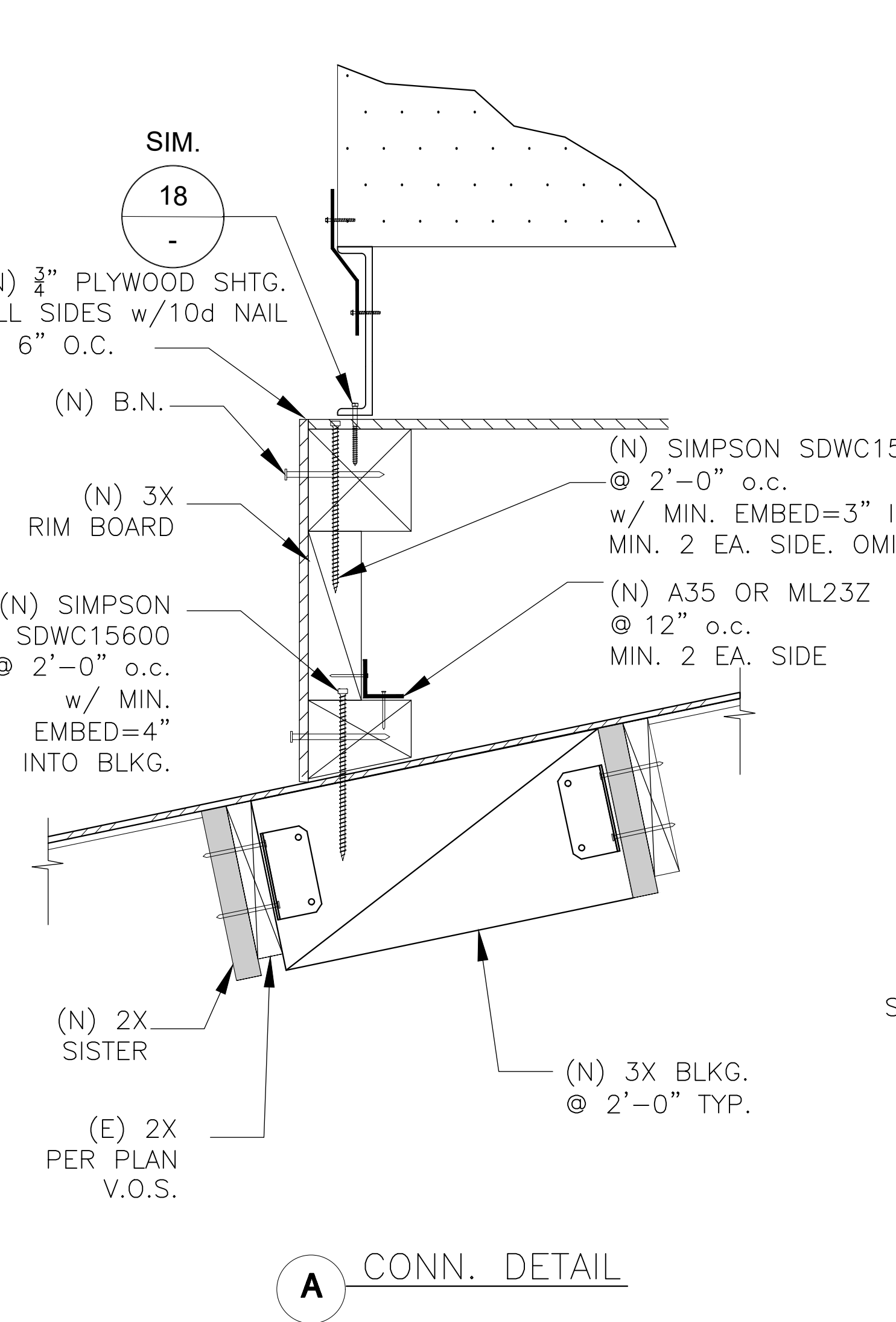


ELEVATION VIEW 19



DETAIL 20

NEW MECH. UNIT @ BLDG C



NEW MECH. UNIT @ BLDG C

NEW MECH. UNIT @ BLDG C

NEW MECH. UNIT @ BLDG C

NEW MECH. UNIT @ BLDG C

NEW MECH. UNIT @ BLDG C

NEW MECH. UNIT @ BLDG C

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK
ARCHITECT
PBK Architects, Inc.
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-545-2000

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION
PROJECT ADDRESS:
1442 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO. ##-#### DSA FILE NO. ##-##

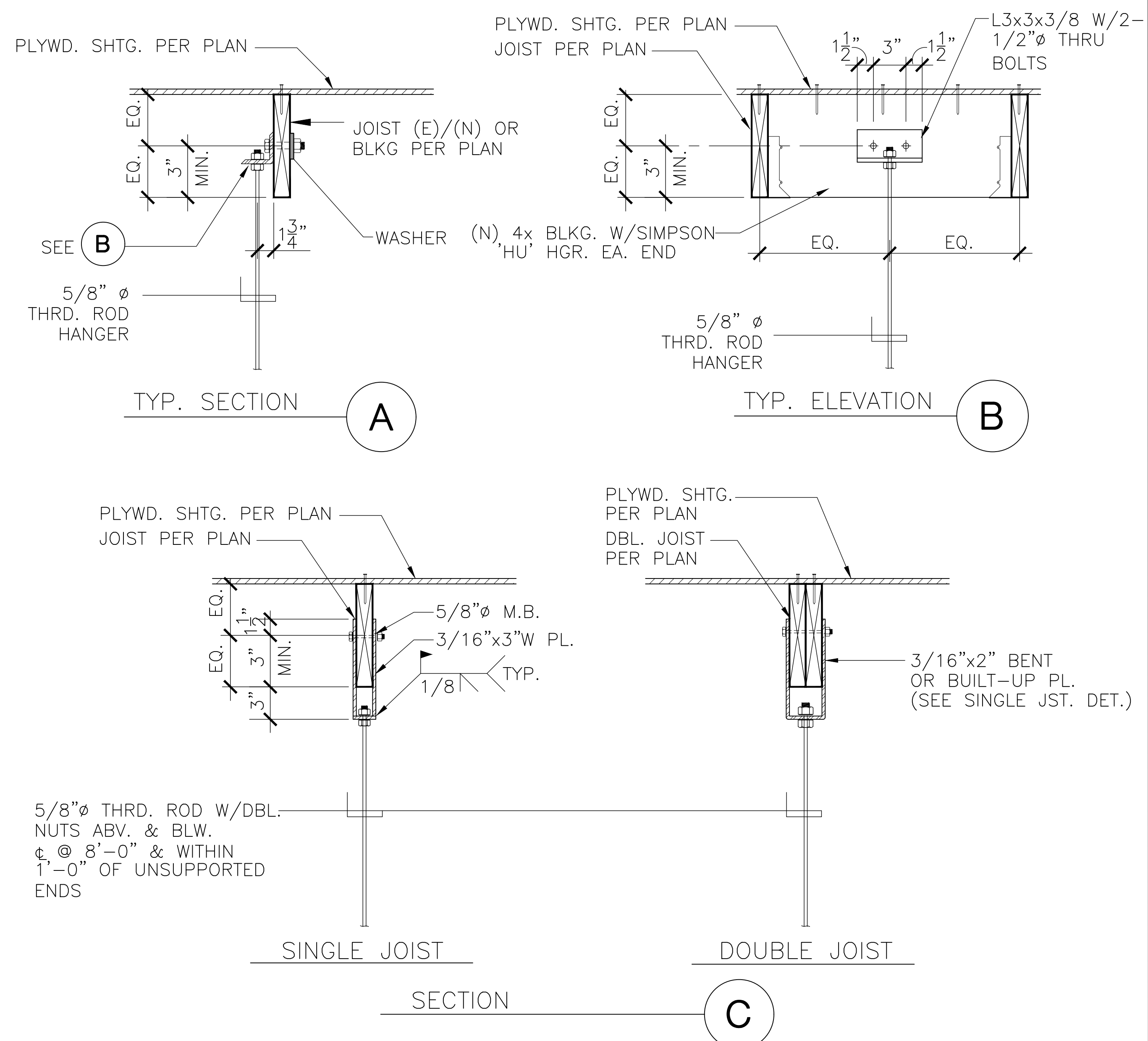
AD X MP
A
B
C
KEY PLAN
NORTH PLAN TRUE

Consultant
NE
STRUCTURAL ENGINEERING
CONSULTANTS
23 CORPORATE PLAZA DR.
SUITE 150
NEWPORT BEACH, CA 92660
NIC PROJECT NO.2225.07
REGISTERED PROFESSIONAL ENGINEER
No. 84302
Exp. 08/30/23
STRUCTURAL DIV. OF CALIFORNIA

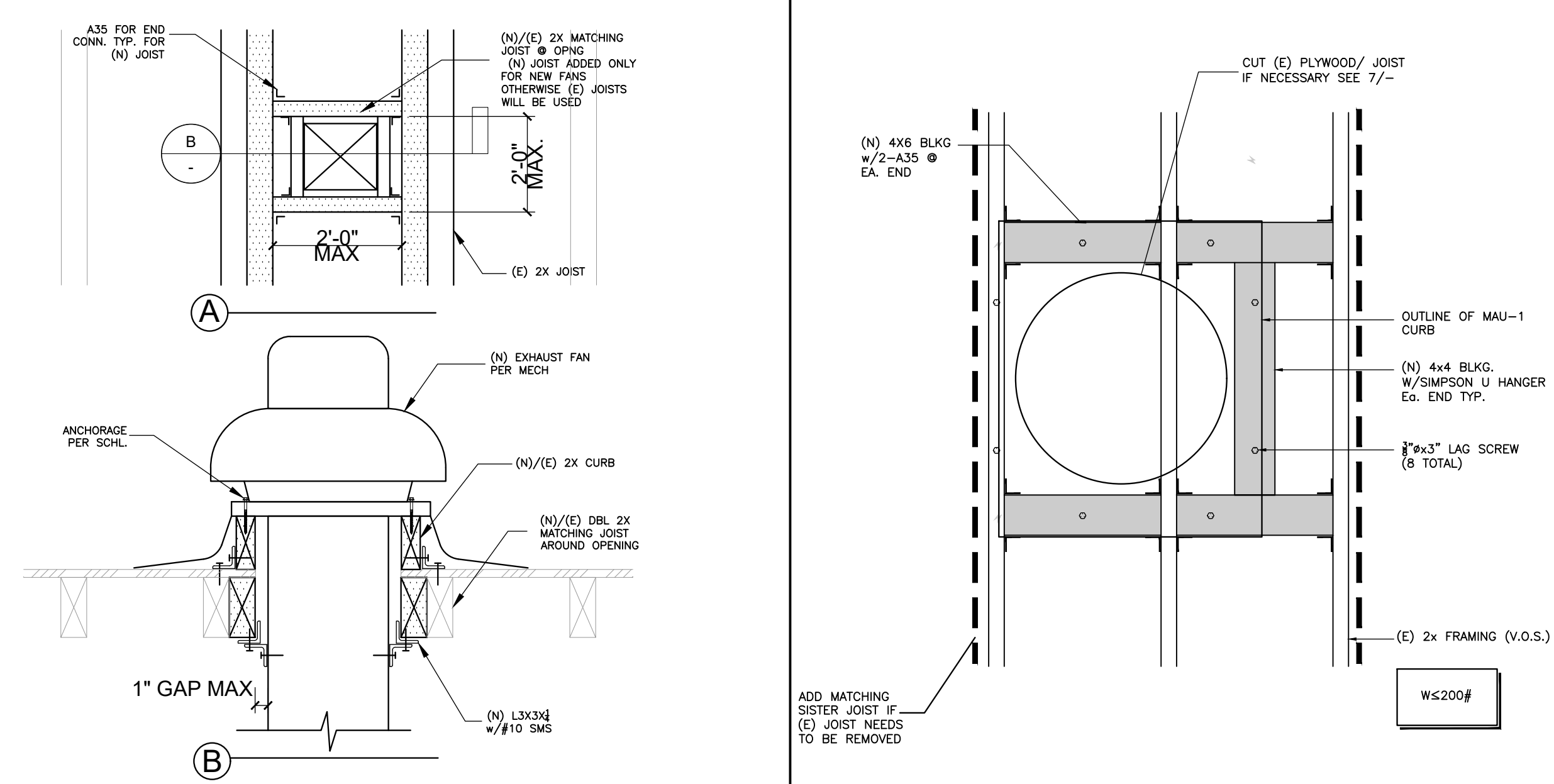
Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE: PROJECT NUMBER
000000
REVISIONS
No. Description Date
DSA SUBMITTAL
RTU DETAILS

SD2A

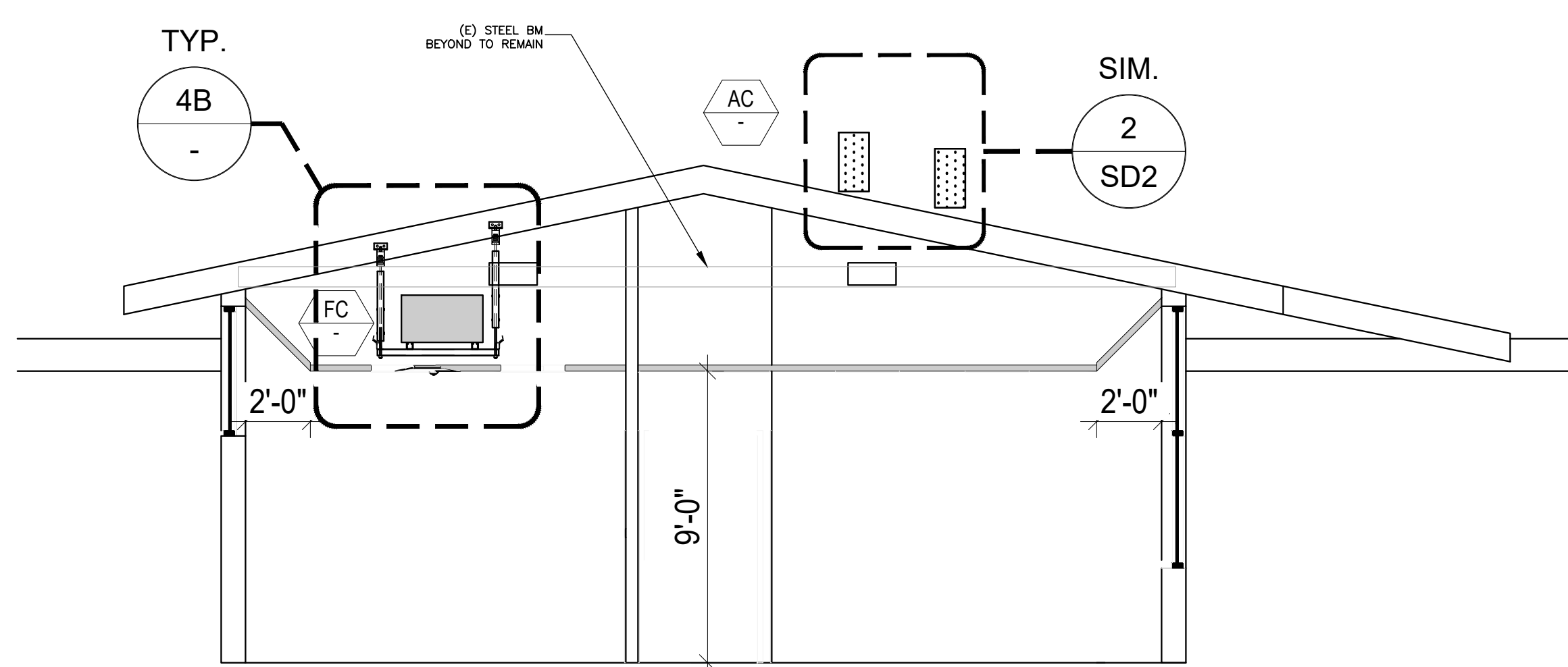


HANGER FOR SAWN LUMBER



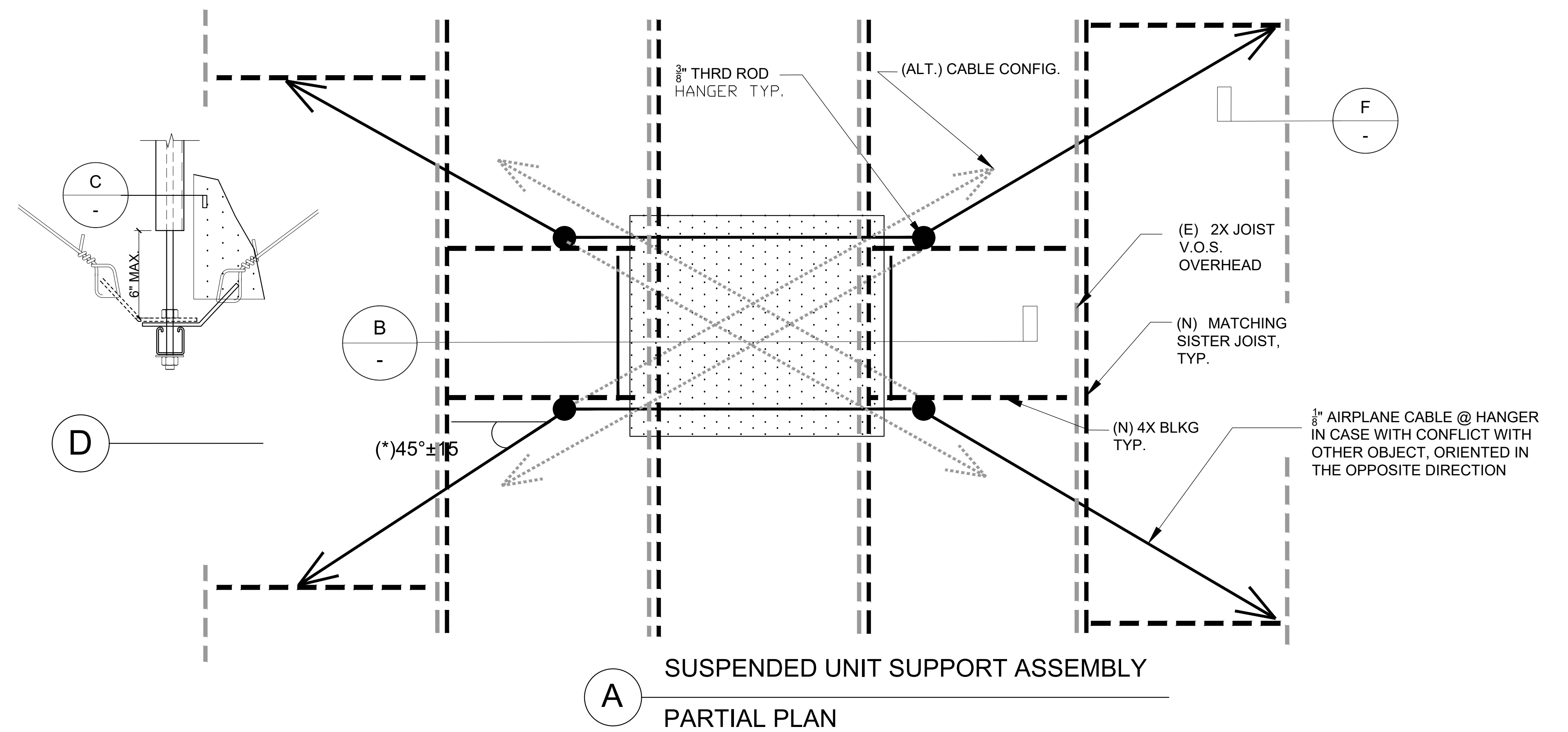
DETAIL

LIGHT WT EQUIP. SUPPORT FRAMING 15



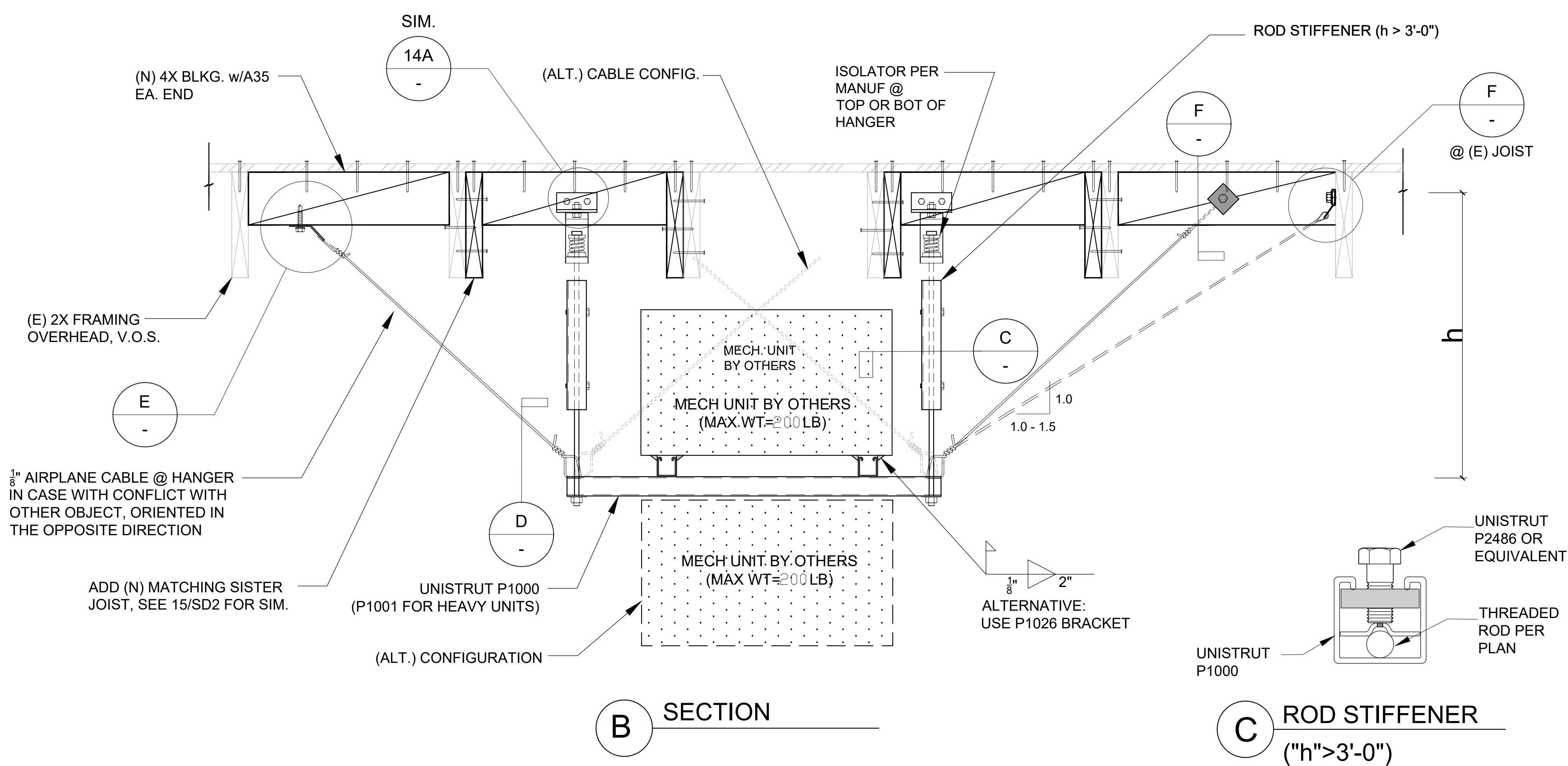
ADMIN BUILDING SECITON

16



SUSPENDED UNIT SUPPORT ASSEMBLY

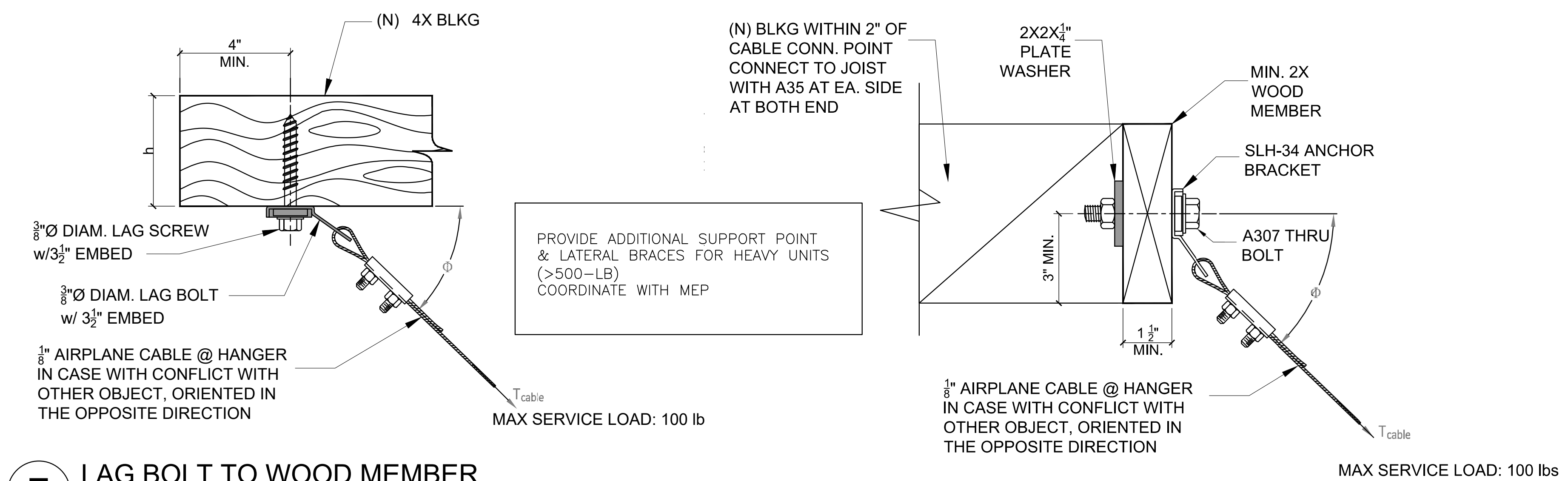
PARTIAL PLAN



SECTION

ROD STIFFENER

("h">3'-0")



 LAG BOLT TO WOOD MEMBER

THRU BOLT PERPENDICULAR TO WOOD MEMBER

HANGER SUPPORT/ SEISMIC BRACING @ HUNG UNITS (MAX 400-lbs)

4

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.

Project Name: Schmitt Elementary School HVAC Upgrade & Modernization
Project Address: 7200 Trask Ave, Westminster, CA 92683
Report Page: (Page 1 of 22)
Date Prepared: 2022-12-19T20:27:14-05:00

A. GENERAL INFORMATION

01 Project Location (city)	Westminster	04 Total Conditioned Floor Area	22750
02 Climate Zone	6	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1
<input type="checkbox"/> Office (B)	<input type="checkbox"/> Retail (M)	<input type="checkbox"/> Non-refrigerated Warehouse (S)	
<input type="checkbox"/> Hotel/ Motel Guest Rooms (R-1)	<input checked="" type="checkbox"/> School (E)	<input type="checkbox"/> Healthcare Facility (I)	
<input type="checkbox"/> High-Rise Residential (R-2/R-3)	<input type="checkbox"/> Relocatable Class Bldg (E)	<input checked="" type="checkbox"/> Other (Write In)	Classroom Building:

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input checked="" type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/> System Piping	<input type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new)
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Generated Date/Time: Report Version: 2019.1.003
Documentation Software: Energy Code Ace
Compliance ID: 80083
Report Generated: 2022-12-19 17:27:15

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Schmitt Elementary School HVAC Upgrade & Modernization
Project Address: 7200 Trask Ave, Westminster, CA 92683
Report Page: (Page 4 of 22)
Date Prepared: 2022-12-19T20:27:14-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11
AC/A-4	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/A-5	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/A-6	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/A-7	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/A-8	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/B-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/B-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/B-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/B-4	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/B-5	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/B-6	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/B-7	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/B-8	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/AC-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Generated Date/Time: Report Version: 2019.1.003
Documentation Software: Energy Code Ace
Compliance ID: 80083
Report Generated: 2022-12-19 17:27:15

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Schmitt Elementary School HVAC Upgrade & Modernization
Project Address: 7200 Trask Ave, Westminster, CA 92683
Report Page: (Page 7 of 22)
Date Prepared: 2022-12-19T20:27:14-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))										
01	02	03	04	05	06	07	08	09		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency		
AC/C-3	<65,000		HSPF	8	8.1	SEER	14	14.3		
AC/C-4	<65,000		HSPF	8	8.1	SEER	14	14.3		
AC/K-1	>=65,000 and <135,000	47 °Fdb/ 43 °Fwb OSA	COP	3.3	3.6	EER / IEER	10.8 / 12	11.2 / 15		
AC/K-2	>=65,000 and <135,000	47 °Fdb/ 43 °Fwb OSA	COP	3.3	3.6	EER / IEER	10.8 / 12	11.2 / 15		

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	FC/K-1, HP/K-1	Economizer: ¹	NA: <=54 kBTU/h cooling	Economizer Controls:	System Fan Type:	Constant Volume
01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B
FC/K-1	Supply	1	400	Nameplate HP	0.75	Device
Total System Design Supply Airflow (CFM):			400	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Schmitt Elementary School HVAC Upgrade & Modernization
Project Address: 7200 Trask Ave, Westminster, CA 92683
Report Page: (Page 2 of 22)
Date Prepared: 2022-12-19T20:27:14-05:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicates as not compliant for guidance.

01	02	03	04	05	06	07	08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	Compliance Results
Yes	AND		AND	Yes	AND	Yes	AND	COMPLIES with Exceptional Conditions
Mandatory Measures Compliance (See Table Q for Details)								COMPLIES

D. EXCEPTIONAL CONDITIONS

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

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Generated Date/Time: Report Version: 2019.1.003
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Compliance ID: 80083
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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Schmitt Elementary School HVAC Upgrade & Modernization
Project Address: 7200 Trask Ave, Westminster, CA 92683
Report Page: (Page 5 of 22)
Date Prepared: 2022-12-19T20:27:14-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11
AC/C-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/C-4	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	426800	49400	30300	42000
AC/K-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	58890	72000	0	65590	74960	34700	49500
AC/K-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	58890	72000	0	65590	74960	34700	49500

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Mechanical Systems

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Project Address: 7200 Trask Ave, Westminster, CA 92683
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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	FC/K-2, HP/K-2	Economizer: ¹	NA: <=54 kBTU/h cooling	Economizer Controls:	System Fan Type:	Constant Volume
01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B
FC/K-2	Supply	1	400	Nameplate HP	0.75	Device
Total System Design Supply Airflow (CFM):			400	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:
System Name:	FC/K-3, HP/K-3	Economizer: ¹	NA: <=54 kBTU/h cooling	Economizer Controls:	System Fan Type:	Constant Volume
01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B
FC/K-3	Supply	1	480	Nameplate HP	0.75	Device
Total System Design Supply Airflow (CFM):			480	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:
System Name:	FC/K-4, HP/K-4	Economizer: ¹	NA: <=54 kBTU/h cooling	Economizer Controls:	System Fan Type:	Constant Volume
01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B
FC/K-4	Supply	1	400	Nameplate HP	0.75	Device
Total System Design Supply Airflow (CFM):			400	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Mechanical Systems

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Project Address: 7200 Trask Ave, Westminster, CA 92683
Report Page: (Page 3 of 22)
Date Prepared: 2022-12-19T20:27:14-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b), and §140.4(c) or §141.0(b)(2) for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available ¹ §140.4(a)	Equipment Sizing per Mechanical Schedule (kBtu/h)			§140.4 (a&b)			
				Heating Output ^{3,4}			Cooling Output ^{3,4}		Load Calculations ^{3,4}	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
FC/K-1, HP/K-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	12000	12000	0	12000	12000	1200	2600
FC/K-2, HP/K-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	12000	12000	0	12000	12000	2200	4200
FC/K-3, HP/K-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	18000	18000	0	18000	18000	6200	13400
FC/K-4, HP/K-4	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	12000	12000	0	12000	12000	2300	5800
FC/C-1, HP/C-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	12000	12000	0	12000	12000	5500	9500
FC/C-2, HP/C-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	24000	24000	0	24000	24000	13500	23300
AC/A-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/A-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000
AC/A-3	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	41900	48000	0	42680	49400	30300	42000

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Documentation Software: Energy Code Ace
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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Schmitt Elementary School HVAC Upgrade & Modernization
Project Address: 7200 Trask Ave, Westminster, CA 92683
Report Page: (Page 6 of 22)
Date Prepared: 2022-12-19T20:27:14-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))									
01	02	03	04	05	06	07	08	09	
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Heating Mode			Cooling Mode			
			Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20		
FC/C-1, HP/C-1	<65,000		HSPF	8.19	10.6	SEER	14	21.5	
FC/C-2, HP/C-2	<65,000		HSPF	8.19	12.6	SEER	14	20.6	
AC/A-1	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/A-2	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/A-3	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/A-4	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/A-5	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/A-6	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/B-7	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/A-8	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/B-1	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/B-2	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/B-3	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/B-4	<65,000		HSPF	8	8.1	SEER	14	14.3	
AC/B-5	<65,000		HSPF	8	8.1	SEER	14	14.8	
AC/B-6	<65,000		HSPF	8	8.1	SEER	14	14.8	
AC/B-7	<65,000	HSPF	8	8.1	SEER	14	14.8		
AC/B-8	<65,000	HSPF	8	8.1	SEER	14	14.8		
AC/AC-1	<65,000	HSPF	8	8.1	SEER	14	14.3		
AC/C-2	<65,000	HSPF	8	8.1	SEER	14	14.3		

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Project Name:	Schmitt Elementary School HVAC Upgrade & Modernization	Report Page:	NRCC-MCH-E (Page 10 of 22)
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H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	AC/A-2	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/A-2	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/A-3	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/A-3	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/A-4	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/A-4	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
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CERTIFICATE OF COMPLIANCE			
Project Name:	Schmitt Elementary School HVAC Upgrade & Modernization	Report Page:	NRCC-MCH-E (Page 13 of 22)
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H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	AC/B-3	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/B-3	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/B-4	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/B-4	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/B-5	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/B-5	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
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Project Name:	Schmitt Elementary School HVAC Upgrade & Modernization	Report Page:	(Page 16 of 22)
Project Address:	7200 Trask Ave, Westminster, CA 92683	Date Prepared:	2022-12-19T20:27:14-05:00

H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	AC/C-4	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/C-4	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/K-1	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/K-1	Supply	1	2400	Nameplate HP	1		
Total System Design Supply Airflow (CFM):			2400	Total System Design (B)HP:	1	Maximum System Fan Power (B)HP:	
System Name:	AC/K-2	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/K-2	Supply	1	2400	Nameplate HP	1		
Total System Design Supply Airflow (CFM):			2400	Total System Design (B)HP:	1	Maximum System Fan Power (B)HP:	

¹ FOOTNOTES: Computer room economizers must meet requirements of §140.5(g) and will be documented on the NRCC-PRC-E document.

² The unit used for HP must be consistent for all fans within a system.

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Mechanical Systems		NRCC-MCH-E	
CERTIFICATE OF COMPLIANCE			
Project Name:	Schmitt Elementary School HVAC Upgrade & Modernization	Report Page:	NRCC-MCH-E (Page 11 of 22)
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H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	AC/A-5	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/A-5	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/A-6	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/A-6	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/A-7	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/A-7	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

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H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	AC/B-6	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/B-6	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/B-7	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/B-7	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/B-8	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/B-8	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

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Mechanical Systems		NRCC-MCH-E	
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I. SYSTEM CONTROLS								
This table is used to demonstrate compliance with mandatory controls in §120.2 and §120.2 and prescriptive controls in §140.4(f), and (n) or requirements in §141.0(b)(2), for altered space conditioning systems.								
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats §110.2(b) & (c) ¹ , §120.2(a)(9) & §141.0(b)(2)	Shut-Off Controls §120.2(a)	Isolation Zone Controls §120.2(a)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
FC/K-1, HP/K-1	Single zone	<= 25,000 ft ²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
FC/K-2, HP/K-2	Single zone	<= 25,000 ft ²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
FC/K-3, HP/K-3	Single zone	<= 25,000 ft ²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
FC/K-4, HP/K-4	Single zone	<= 25,000 ft ²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
FC/C-1, HP/C-1	Single zone	<= 25,000 ft ²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows
FC/C-2, HP/C-2	Single zone	<= 25,000 ft ²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

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Project Name: Schmitt Elementary School HVAC Upgrade & Modernization

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Project Address: 7200 Trask Ave, Westminster, CA 92683

Date Prepared:

H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	AC/A-8	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/A-8	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/B-1	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/B-1	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	
System Name:	AC/B-2	Economizer: ¹	Differential Enthalpy	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
AC/B-2	Supply	1	1600	Nameplate HP	0.75		
Total System Design Supply Airflow (CFM):			1600	Total System Design (B)HP:	0.75	Maximum System Fan Power (B)HP:	

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0' 1'

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M. COOLING TOWERS
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.
These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/
Form/Title
NRCH-MCH-01-E - Must be submitted for all buildings

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CERTIFICATE OF COMPLIANCE
Project Name: Schmitt Elementary School HVAC Upgrade & Modernization
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Maher Dandachi
Company: LEAF Engineers
Address: 8163 Rochester Avenue
City/State/Zip: Rancho Cucamonga, CA 91730
Documentation Author Signature: [Signature]
Signature Date: 12/19/2022
CSA/HERS Certification Identification (if applicable):
Phone: 909.987.0909
RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: Rex Wang
Company: LEAF Engineers
Address: 8163 Rochester Avenue
City/State/Zip: Rancho Cucamonga, CA 91730
Responsible Designer Signature: [Signature]
Date Signed: 12/19/2022
License: M36195
Phone: 909.987.0909

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Documentation Software: Energy Code Ace
Compliance ID: 80083
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.
These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/
Form/Title
Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.
NRCA-MCH-05-A - Air Economizer Controls
NRCA-MCH-18-A Energy Management Control Systems
P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

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Mechanical Systems
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CALIFORNIA ENERGY COMMISSION

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.
01
Compliance with Mandatory Measures documented through MCH
Mandatory Measures Note Block
02
No
03
Mandatory Measure
04
Plan sheet or construction document location
Heating Equipment Efficiency per §110.1
Cooling Equipment Efficiency per §110.1
Furnace Standby Loss Control per §110.2(d)
Duct Insulation per §120.4
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)
The air duct and plenum system is designed per §120.4(a)-(f)
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2

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Documentation Software: Energy Code Ace
Compliance ID: 80083
Report Generated: 2022-12-19 17:27:15

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-546-5000

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL
DSA FILE NO.: ###
DSA APPL NO.: 04-121817

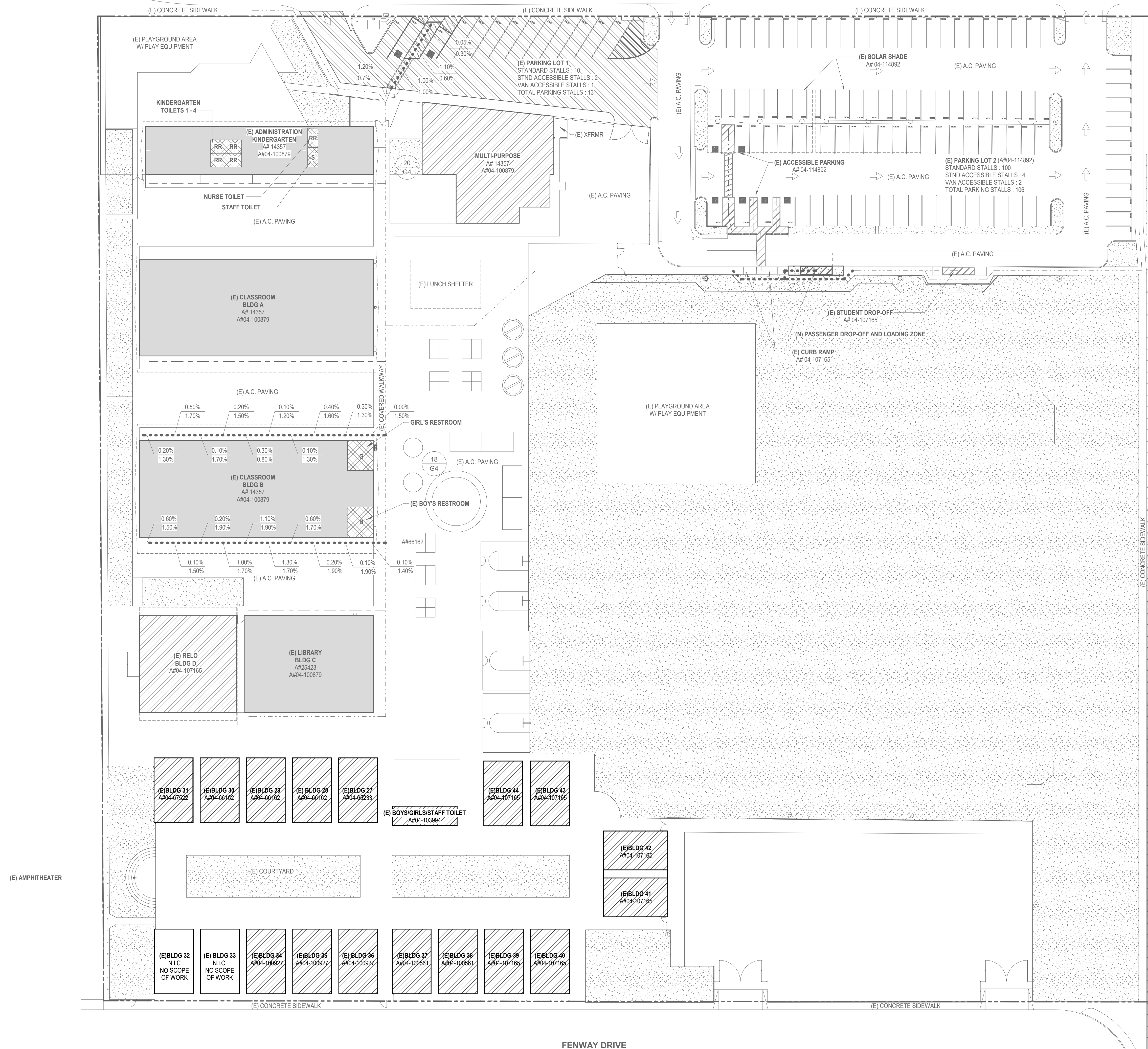
AD K1 MP
A
B
C
KEY PLAN
NORTH: PLAN

Consultant
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987.0909
leafengineers.com

Engineer
REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No. M36195
Exp. 08-30-2024
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE: 12-28-2022 PROJECT NUMBER: 220307
REVISIONS
No. Description Date
DSa SUBMITTAL
MECHANICAL TITLE 24

M0.3



KEY NOTES

1 XX

PRK

ARCHITECT PBK Architects, Inc.
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-548-5000

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

KEY PLAN

NORTH: PLAN

Consultant

 **LEAF**
ENGINEERS

8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
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Engineer



REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No. M36155
Exp. 09-30-2024
MECHANICAL
STATE OF CALIFORNIA

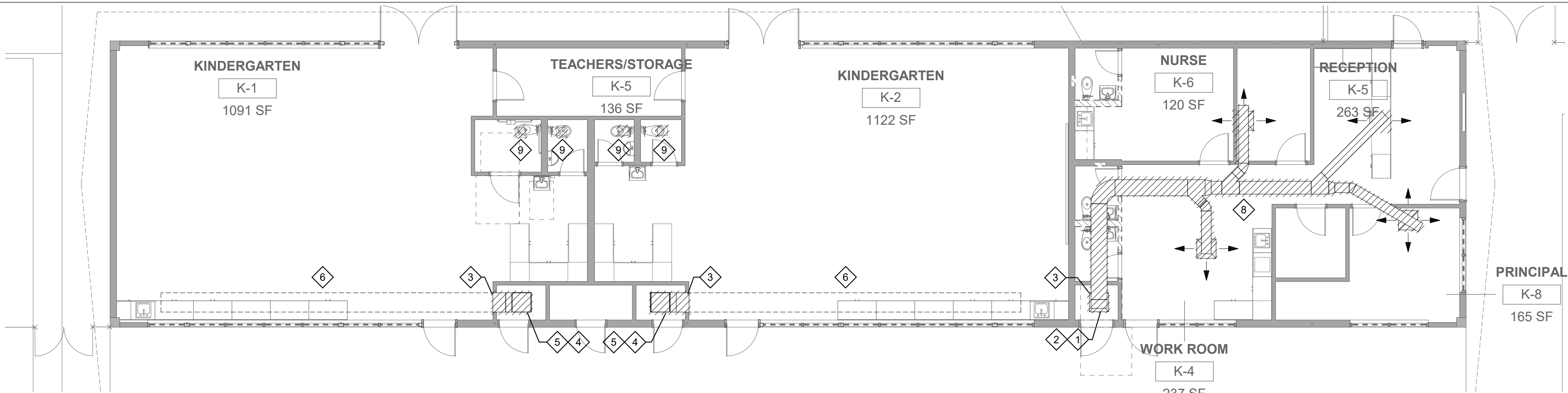
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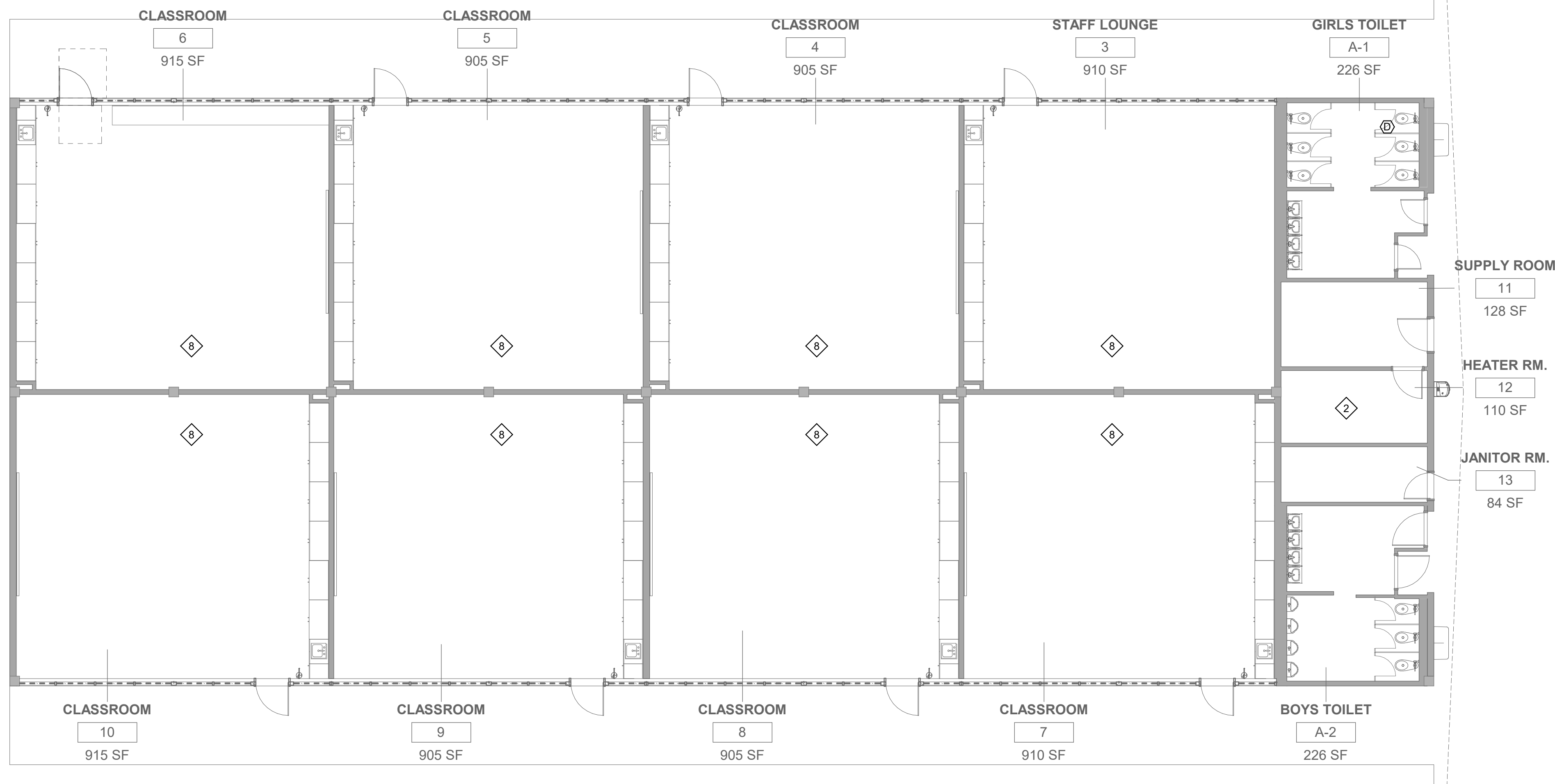
MECHANICAL SITE PLAN

M1.0

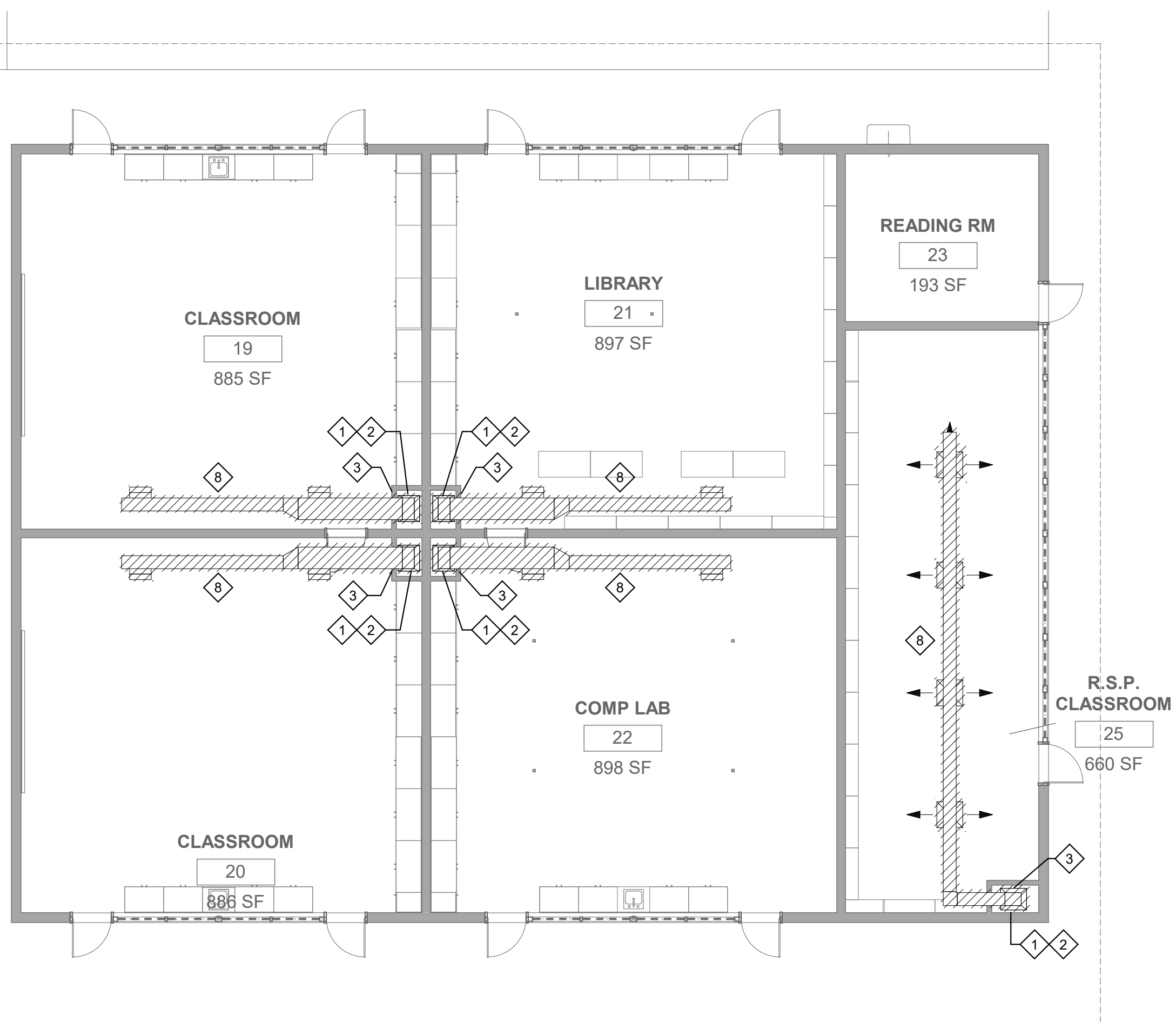
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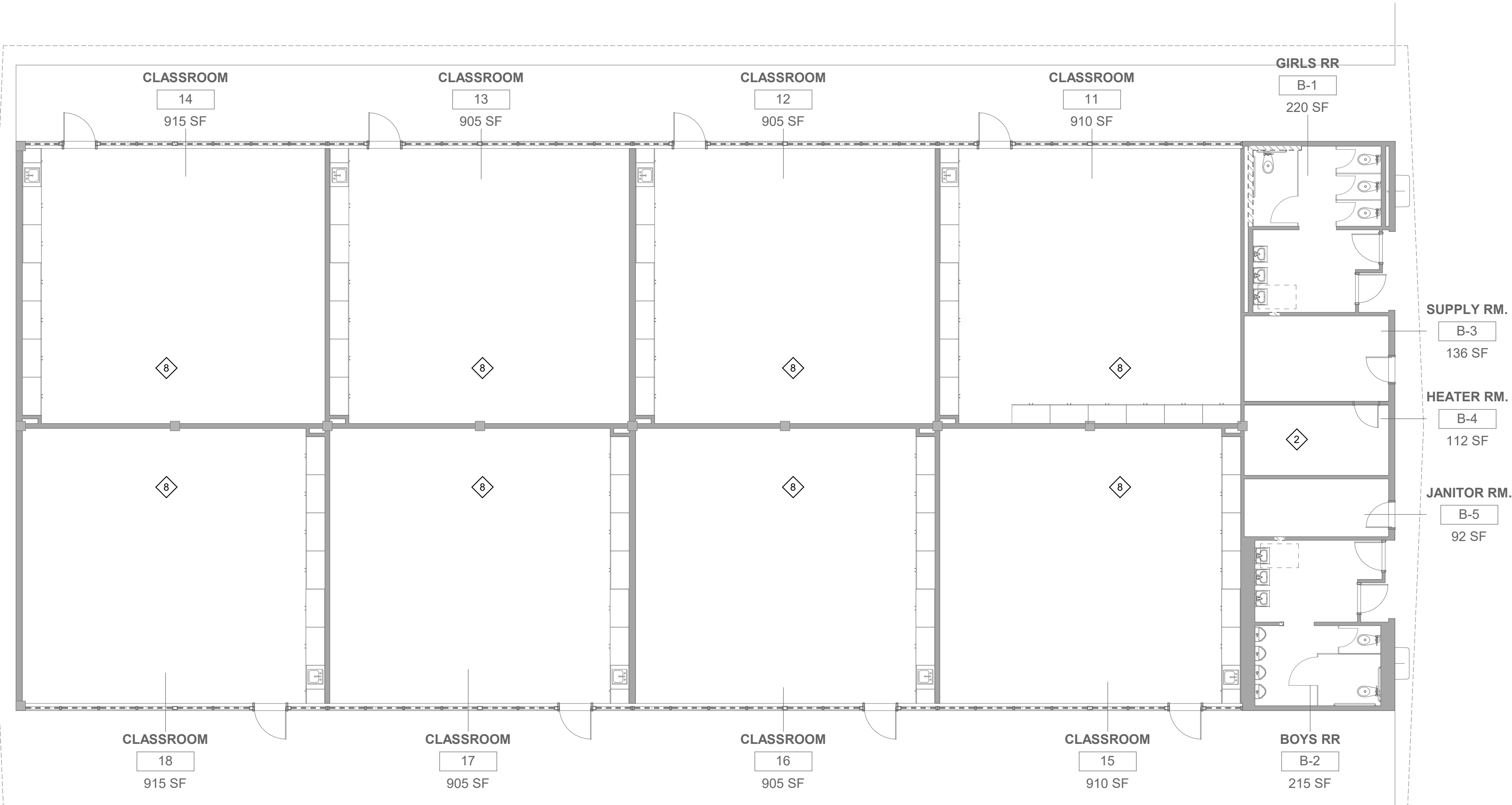
4 DEMO FLOOR PLANS - ADMIN/KINDERGARTEN
1/8" = 1'-0"



3 DEMO FLOOR PLANS - BUILDING A
1/8" = 1'-0"



2 DEMO FLOOR PLANS - BUILDING C
1/8" = 1'-0"



1 DEMO FLOOR PLANS - BUILDING B
1/8" = 1'-0"

DEMO GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT LOCATED WITHIN THE AREA OF THE NEW SCOPE OF WORK. DUCTWORK, LOUVERS, ACCESSORIES, ETC. BEFORE COMMENCING WORK.

DEMO KEY NOTE

- 1 DISCONNECT (E) GAS AT POINT OF DISCONNECT & CAP. PATCH REPAIR AND PAINT SURFACE TO MATCH EXISTING
- 2 (E) HEATER TO BE DEMOLISHED WITH ALL ASSOCIATED DUCTWORK, PIPES, WIRING, ACCESSORIES, ETC.
- 3 (E) RETURN GRILLE/LOUVER TO BE DEMOLISHED WITH ALL ASSOCIATED DUCTWORK ETC. PATCH, REPAIR AND PAINT SURFACE TO MATCH EXISTING
- 4 (E) FLOOR MOUNTED HEATER TO BE DEMOLISHED WITH ALL ASSOCIATED DUCTWORK PIPING WIRING DAMPERS ETC. PATCH REPAIR AND PAINT SURFACES TO MATCH EXISTING
- 5 DISCONNECT (E) UNDERGROUND DUCT BELOW FLOOR AND CAP. PATCH, REPAIR AND PAINT SURFACES TO MATCH EXISTING
- 6 (E) UNDERGROUND DUCT TO BE ABANDONED.
- 7 (E) THERMOSTAT TO BE DEMOLISHED WITH ALL ASSOCIATED WIRING, ACCESSORIES, ETC. PATCH, REPAIR AND PAINT SURFACE TO MATCH EXISTING.
- 8 (E) DUCTWORK, GRILLES, DIFFUSERS AND ACCESSORIES LOCATED IN ROOM TO BE DEMOLISHED
- 9 (E) CEILING EXHAUST FAN TO BE DEMOLISHED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

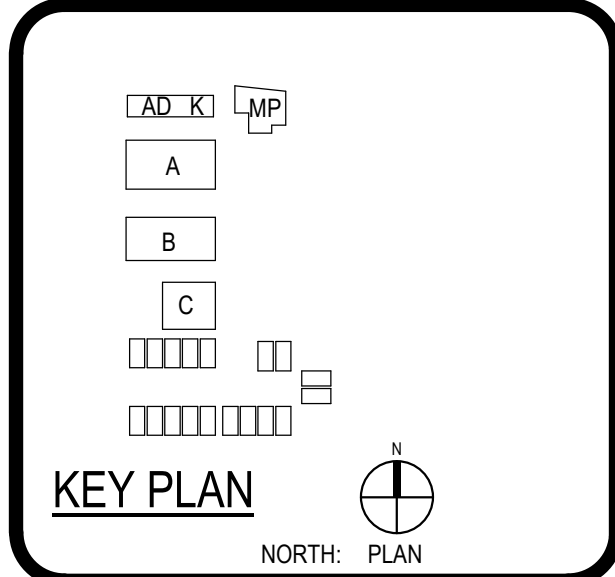
PRK

ARCHITECT PRK Architects, Inc.
COSTA MESA
600 Anton Boulevard, Suite 1375
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P 949-546-5000

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DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. ##/##

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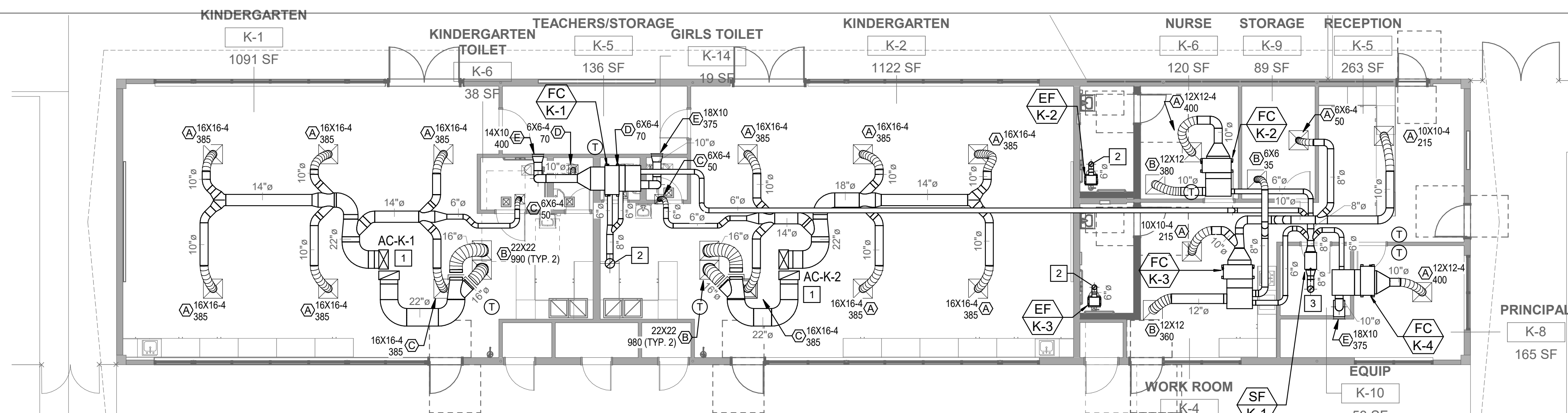
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-28-2022 PROJECT NUMBER 220307

REVISIONS

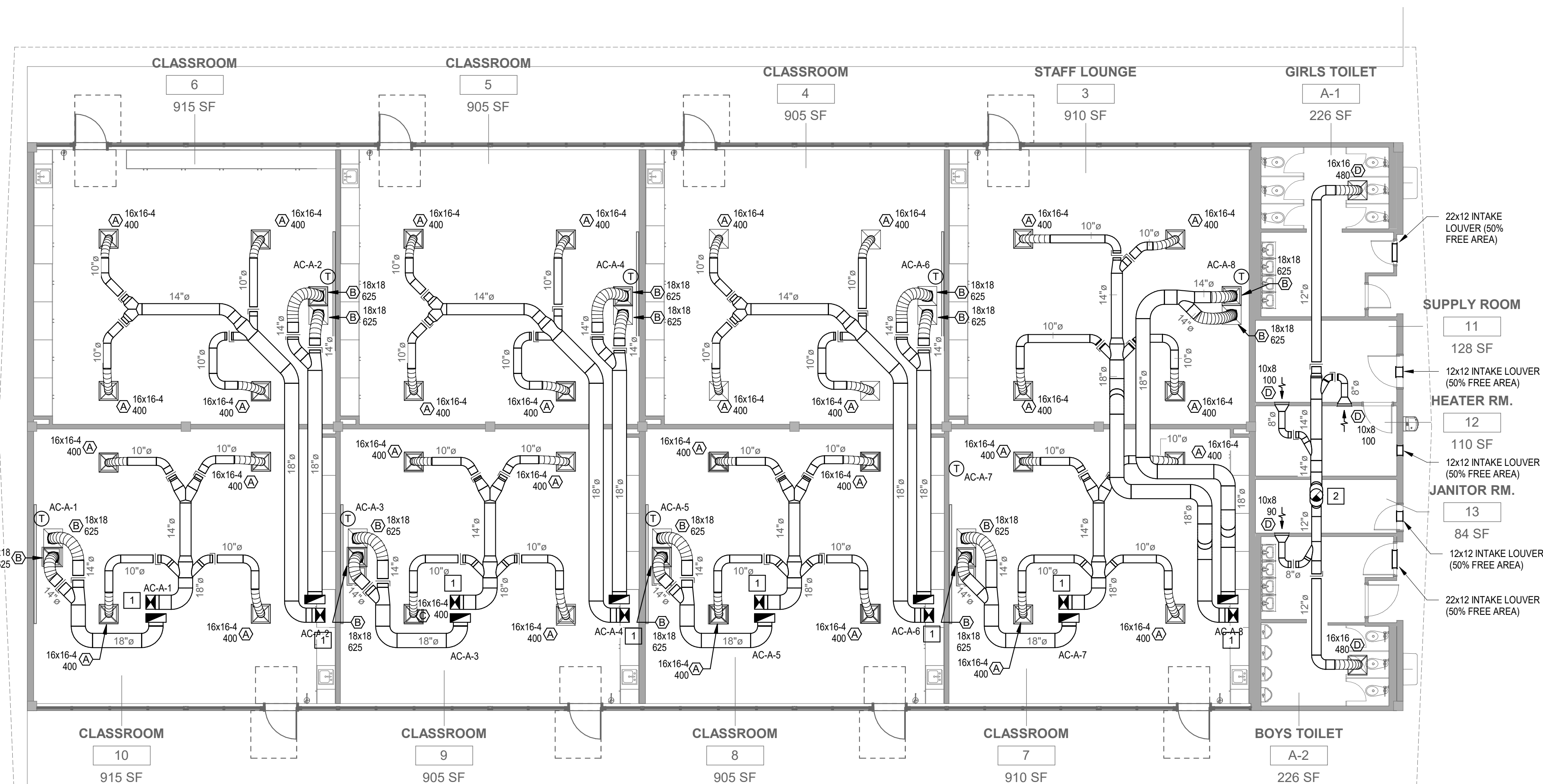
No.	Description	Date

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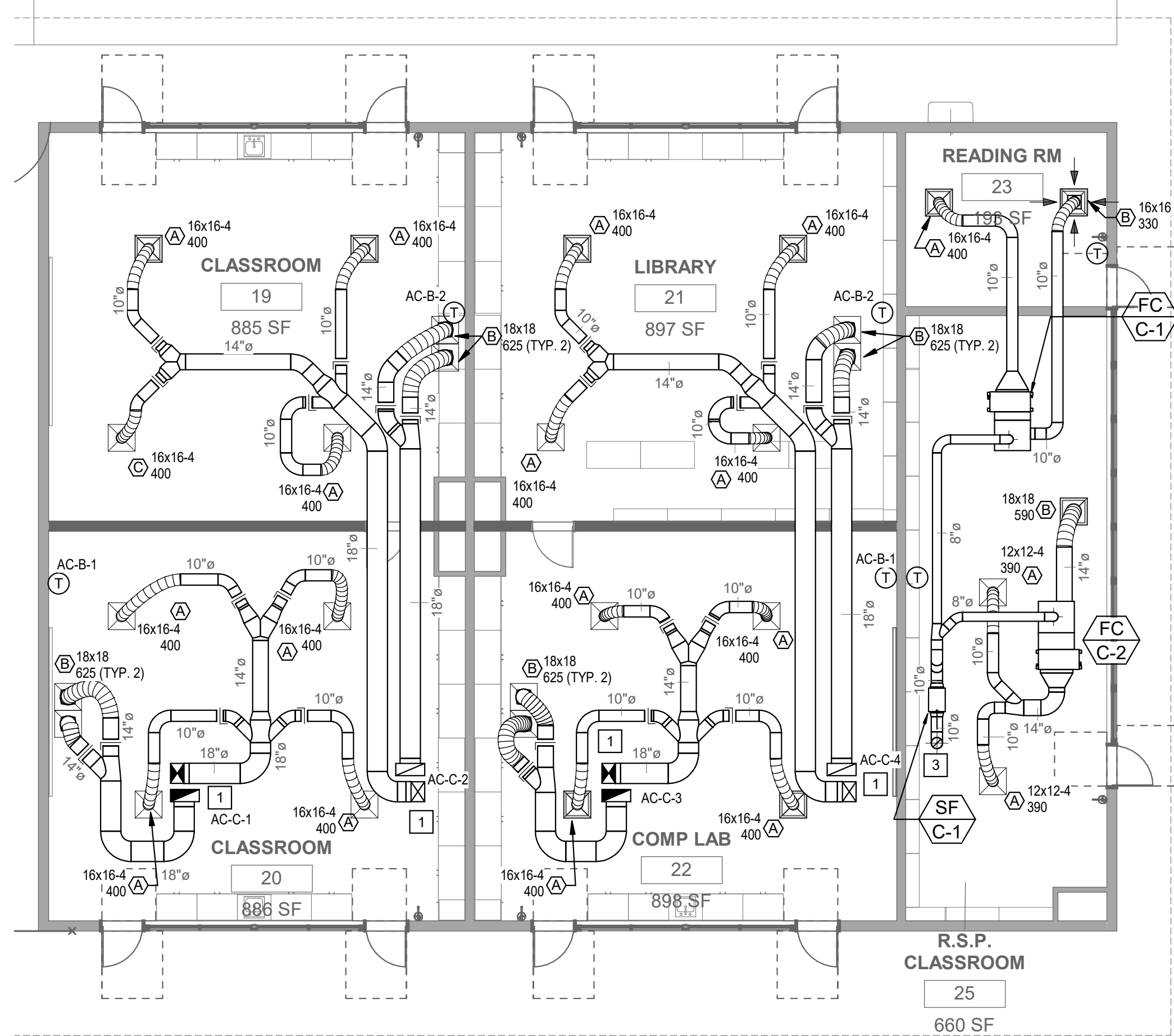
**MECHANICAL DEMO
FLOOR PLANS - ADMIN &
KINDERGARTEN, BLDG
A,B & C**



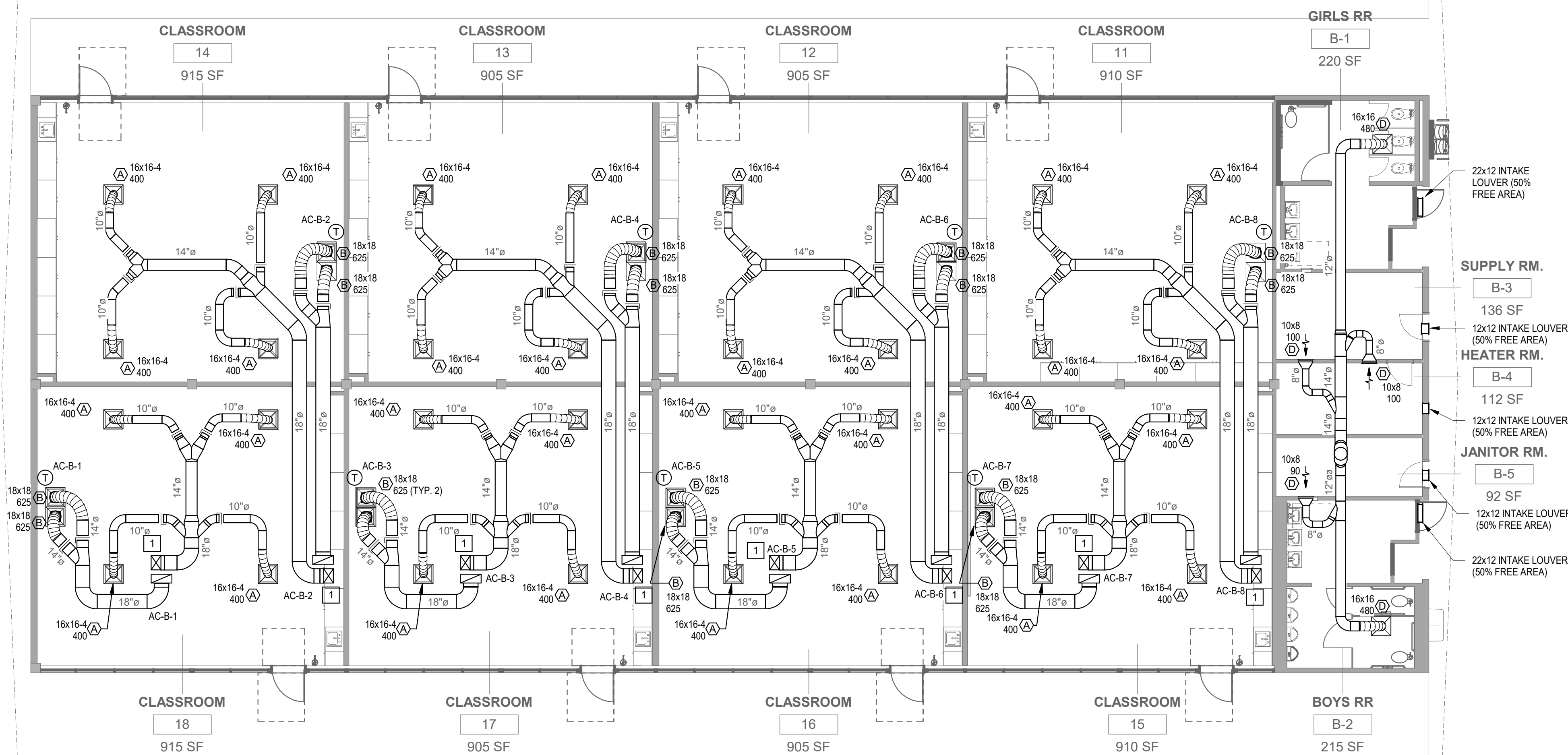
4 FLOOR PLANS - ADMIN/KINDERGARTEN
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING A
1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING B
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE NEW ROOFTOP PACKAGE UNITS AND SPLIT DX SYSTEMS & ASSOCIATED CONTROLS, DUCTWORK AND GRILLES TO SERVE THE CLASSROOM BUILDINGS & ADMIN/KINDERGARTEN BUILDING.
2. PROVIDE NEW ROOFTOP EXHAUST FANS AND CEILING EXHAUST FANS & ASSOCIATED CONTROLS, DUCTWORK AND GRILLES TO SERVE THE RESTROOM AREAS
3. PROVIDE ALL NECESSARY CONTROLS REQUIRED TO CONNECT NEW ROOFTOP PACKAGE UNITS SPLIT DX UNITS & FANS TO EXISTING BMS

KEY NOTES

- 1 SA & RA DUCTS UTR. REFER TO STRUCTURAL DETAIL 15
- 2 EA DUCT UTR. REFER TO STRUCTURAL DETAIL 15/SD3
- 3 OSA DUCT UTR. REFER TO STRUCTURAL DETAIL 15/SD3

DEMO NOTES

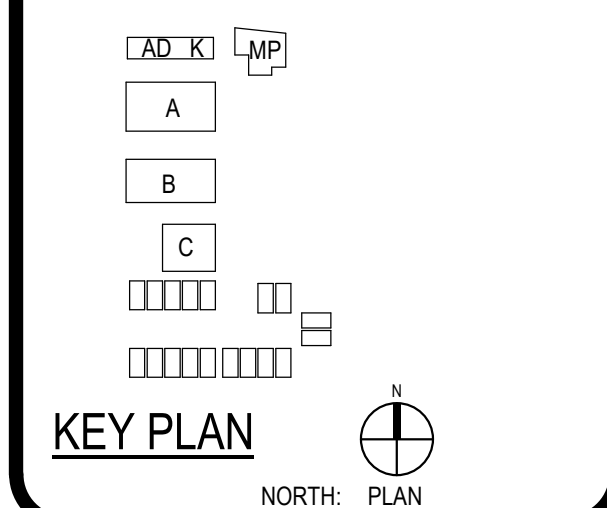
- 1 CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT LOCATED WITHIN THE AREA OF THE NEW SCOPE OF WORK, DUCTWORK, LOUVERS, ACCESSORIES, ETC. BEFORE COMMENCING WORK.
- 2 ALL EXISTING DUCT, DIFFUSER, REGISTER, THERMOSTAT, DAMPER, ETC. TO BE DEMOLISHED WITH ALL ASSOCIATED ACCESSORIES. PATCH, REPAIR AND PAINT TO MATCH WITH EXISTING SURFACES



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CLIENT

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WESTMINSTER SCHOOL DISTRICT	
DATE	PROJECT NUMBER

REVISIONS		
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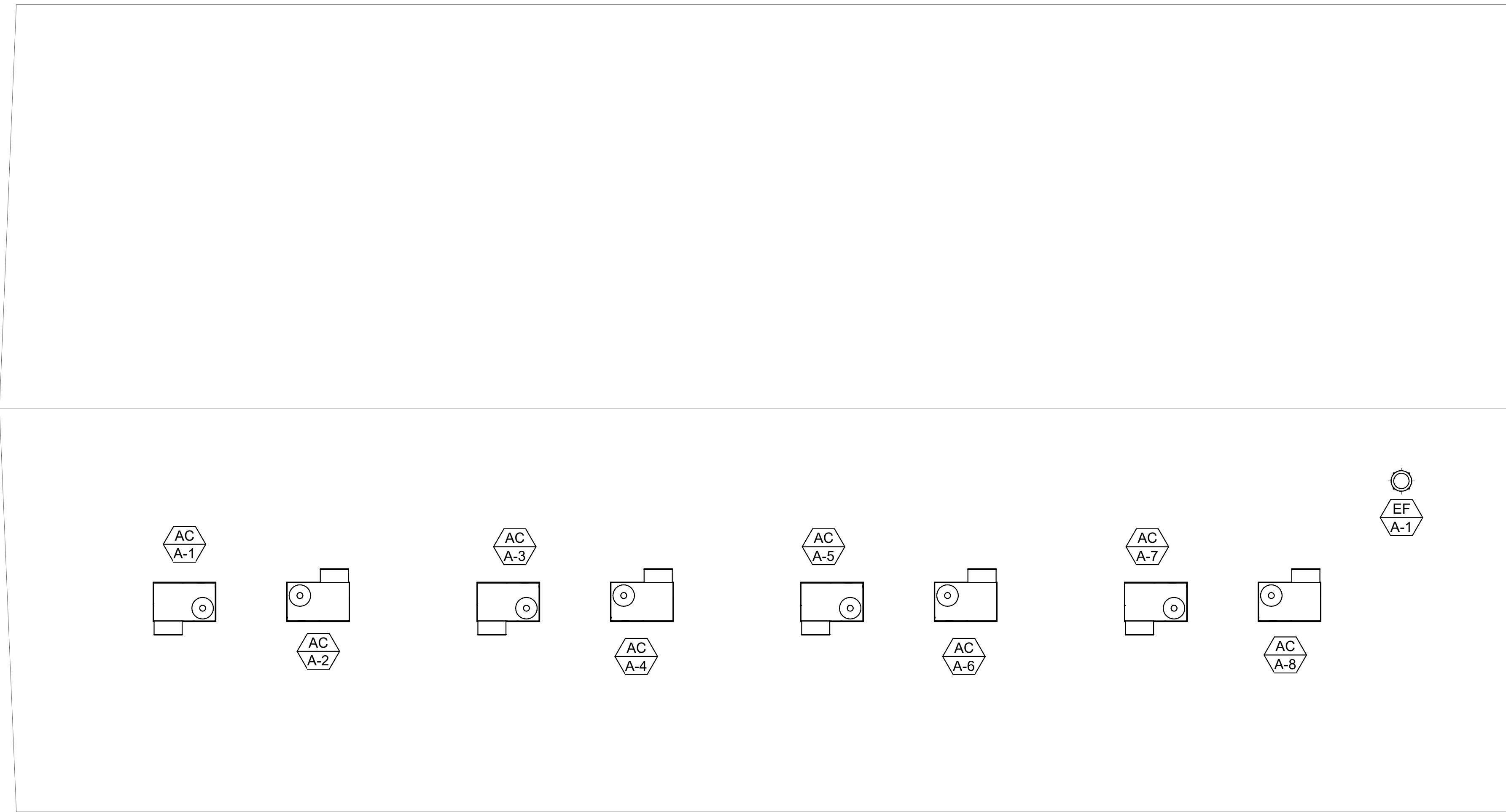
DSA SUBMITTAL

**MECHANICAL FLOOR
PLANS - ADMIN &
KINDERGARTEN, BLDG
A, B & C**

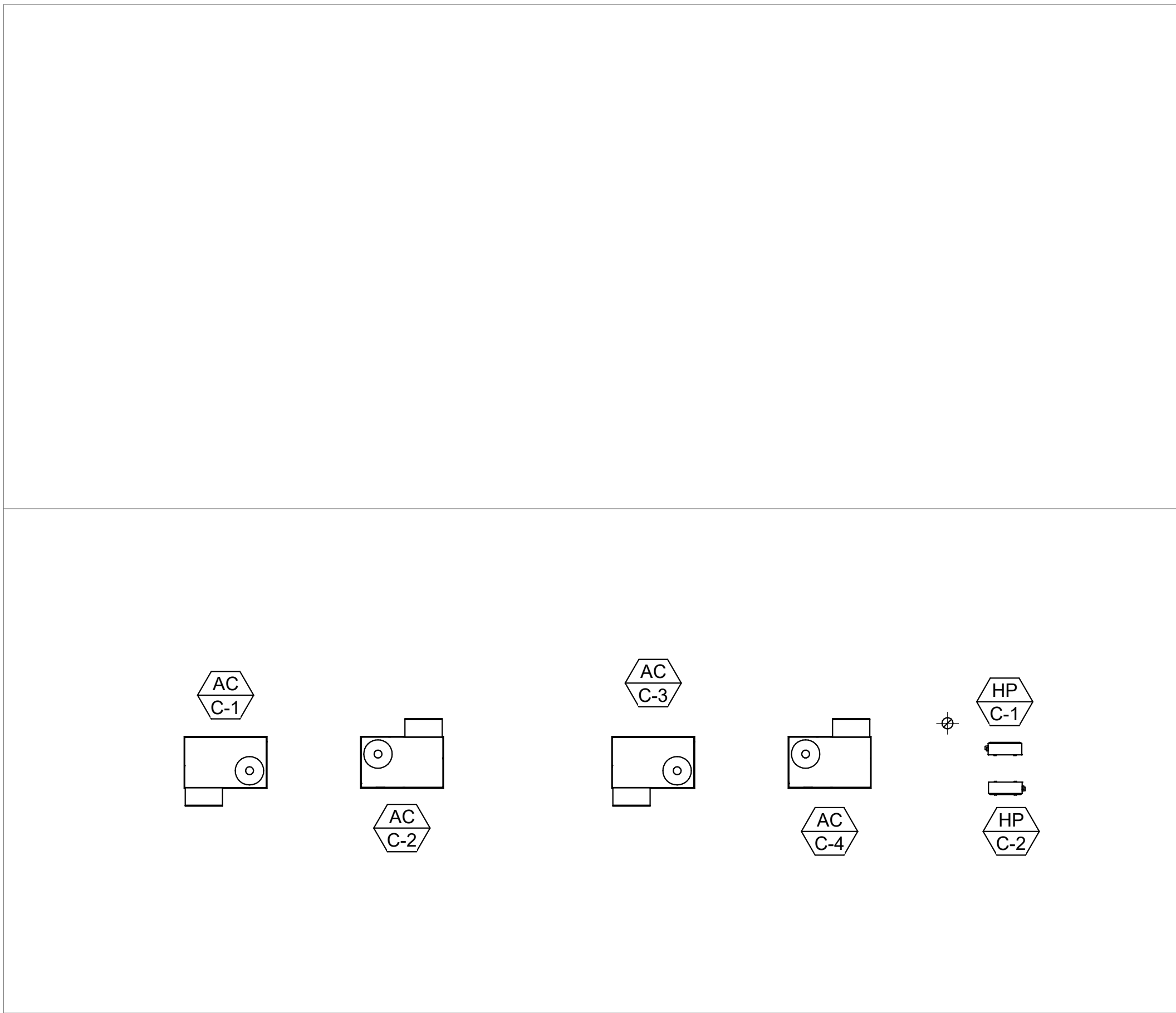
M2.1



4 ROOF PLANS - ADMIN/KINDERGARTEN
1/8" = 1'-0"

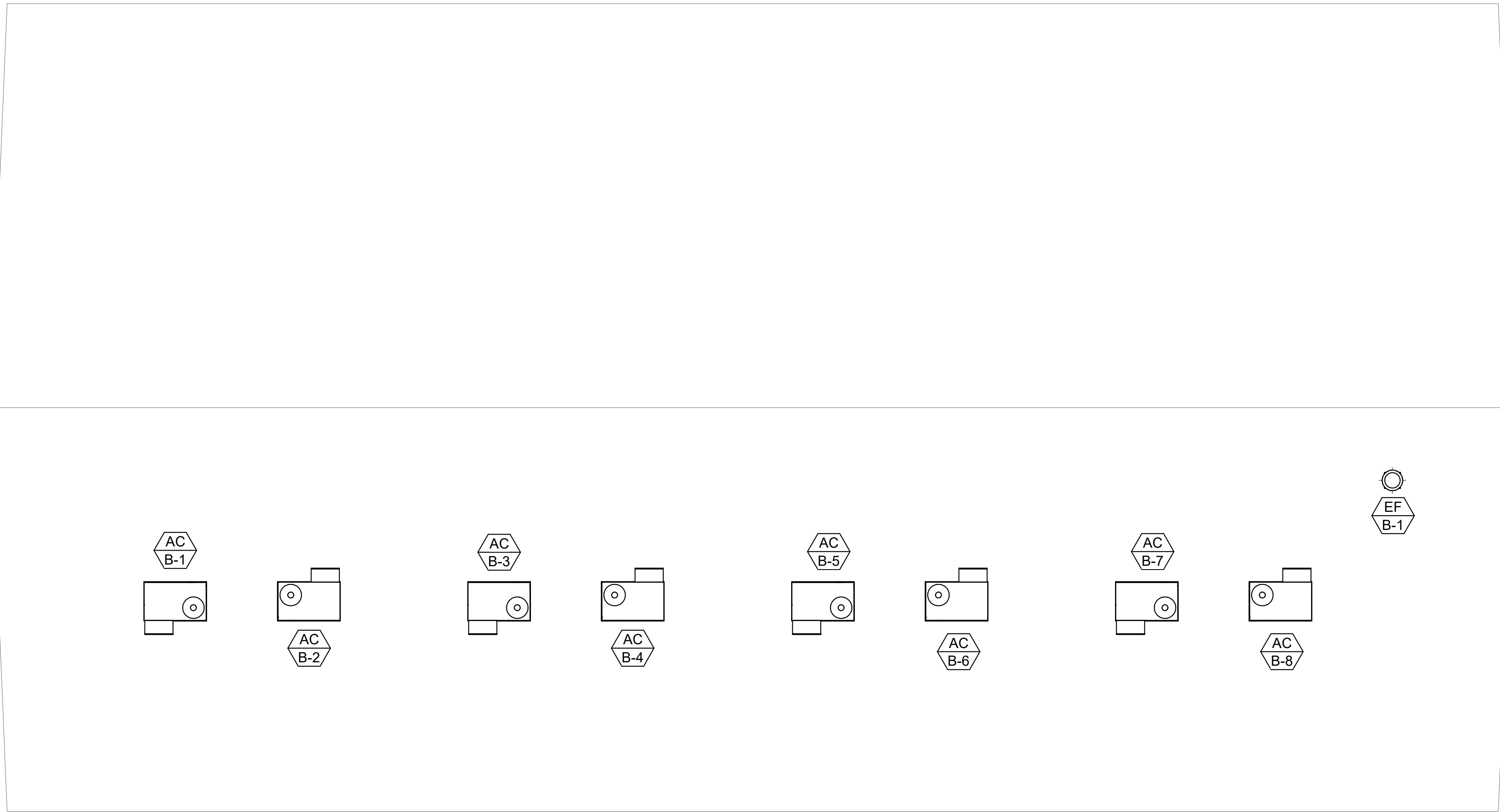


3 ROOF PLAN - BUILDING A
1/8" = 1'-0"



2 ROOF PLAN - BUILDING C
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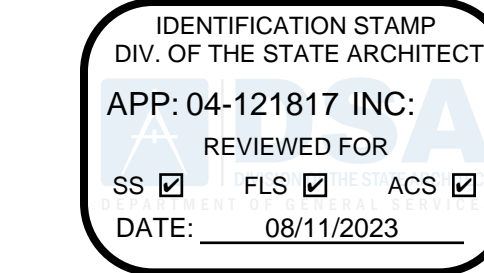


DEMO NOTES

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT BEFORE COMMENCING WORK.
2. ALL MECHANICAL ROOFTOP EQUIPMENT TO BE DEMOLISHED. PATCH, REPAIR AND PAINT TO MATCH WITH EXISTING SURFACES

GENERAL NOTES

1. PROVIDE NEW ROOFTOP PACKAGE UNITS AND SPLIT DX SYSTEMS & ASSOCIATED CONTROLS, DUCTWORK AND GRILLES TO SERVE THE CLASSROOM BUILDINGS & ADMIN/KINDERGARTEN BUILDING.
2. PROVIDE NEW ROOFTOP EXHAUST FANS AND CEILING EXHAUST FANS & ASSOCIATED CONTROLS, DUCTWORK AND GRILLES TO SERVE THE RESTROOM AREAS
3. PROVIDE ALL NECESSARY CONTROLS REQUIRED TO CONNECT NEW ROOFTOP PACKAGE UNITS, SPLIT DX UNITS & FANS TO EXISTING BMS
4. PROVIDE NEW LEVEL PLATFORMS AND BUILT UP ROOF CURBS FOR NEW ROOFTOP PACKAGE UNITS



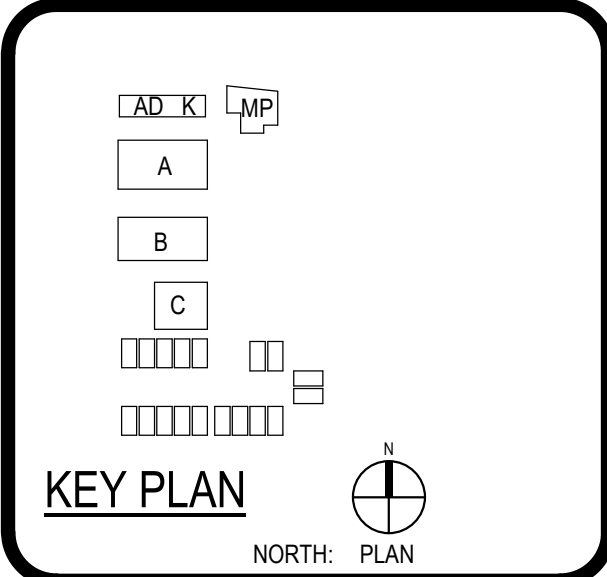
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DSA APPL NO. 04-121817 DSA FILE NO. ###



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WESTMINSTER SCHOOL DISTRICT		
DATE		PROJECT NUMBER
12-28-2022		220307
REVISIONS		
No.	Description	Date
DSA SUBMITTAL		

MECHANICAL ROOF PLANS

NOTES

1. SCHEDULED LOADS INCLUDE FAN AND MOTOR HEAT.
2. PROVIDE ANTI-RECYCLE TIMER, CRANKCASE HEATER, LOW AMBIENT KIT AND HIGH CAPACITY FILTER RACK.
3. PROVIDE FACTORY "MICROMET" MODULATING ECONOMIZER WITH POWER HEADS. AC UNIT SHALL HAVE CO2 CONTROL. PROVIDE WITH LOCKING MESH COVER.
4. EXHAUST SHALL BE PROVIDED WITH A WARETE DISCONNECT SWITCH, FIELD WIRED BY ELECTRICAL.
5. PROVIDE VIBRATION ISOLATORS.
6. BYPASS UNIT ANTI-RECYCLE TIMER WHEN ANTI-RECYCLE FUNCTION IS SWITCHED IN THE THERMOSTAT.
7. OVERALL SMOKE DETECTION SYSTEM PROVIDED BY ELECTRICAL FOR ALL UNITS TO SHUT-OFF UPON DETECTION OF SMOKE AND SIGNAL THE FIRE ALARM SYSTEM.
8. INSTALL IN STRICT ACCORDANCE WITH THE 2019 CALIFORNIA MECHANICAL CODE, SECTION 008. REFER TO ELECTRICAL PLANS AND MECHANICAL TO CONNECT TO ELECTRICAL REPLY. PRIOR TO MECHANICAL PERMIT FAN, A SMOKE DETECTOR SYSTEM SHUT-OFF TEST WILL BE REQUIRED.
9. PROVIDE WITH FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH.
10. PROVIDE FACTORY CONDENSER COIL GUARDS.
11. PROVIDE T-24 COMPLIANT INTERNET PROGRAMMABLE THERMOSTAT "NT" MODEL 24103-000 WITH DEMAND CONTROL VENTILATION (DCV), CO2 SENSORS AND CONNECT TO EXISTING EMS.
12. UNITS SHALL HAVE DUCT FLEX CONNECTIONS INSTALLED WITHIN ROOF CURB.
13. ALL AC UNITS SHALL HAVE R-410A REFRIGERANT.
14. PROVIDE WITH FACTORY MOUNTED NON-POWERED CONVENIENCE OUTLET.
15. WEIGHT INCLUDES RTU, POWER EXHAUST AND ROOF CURB.
16. UNIT SHALL BE INSTALLED ON LEVEL PLATFORM (PROVIDED BY OTHERS).

NOTES:

1. REFER TO THE FLOOR PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN AND FIRE/DAMPER, IF REQUIRED.
2. PROVIDE AIR CONTROL GRID FOR ALL CEILING SUPPLY DIFFUSERS SET AT 90°.

FANS SCHEDULE

NOTES:

1. PROVIDE FACTORY ROOF CURB. SLOPE TO MATCH EXISTING ROOF SLOPE, AS REQUIRED.
2. FAN SHALL OPERATE ON A TIME CLOCK SCHEDULE PROVIDED BY THE SCHOOL DISTRICT.
3. PROVIDE BACKDRIFT DAMPER FOR ALL FANS.
4. PROVIDE FACTORY SOLID STATE CONTROLLER MOUNTED WITHIN THE FAN'S CASING.
5. PROVIDE CONTROL TRANSFORMER AND PRESSURE TRANSDUCER.
6. PROVIDE WITH MERV 13 FILTERS.
7. CONNECT TO EXISTING EMS.

M5.1

SUPPLY FAN SCHEDULE															
UNIT	MANUFACTURER & MODEL NO.	SERVICE	TYPE	CFM	SP IN W.G.	FAN RPM	DRIVE	MOTOR				SONES		OPER WT. (LBS)	REMARKS
								HP/ BHP	VOLT	PH	HZ	INLET	RADIATED		
<div>SF K-1</div>	GREENHECK SQ-97-VG	ADMIN/ KINDERGARTEN	CEILING SUSPENDED	180	0.75	1853	DIRECT	1/2 0.18	115	1	60	15.3	13.8	60	SEE NOTES BELOW. REFER TO STRUCTURAL DETAIL 4/SD3 FOR ANCHORAGE
<div>SF C-1</div>	GREENHECK SQ-97-VG	BLDG C	CEILING SUSPENDED	105	0.5	1364	DIRECT	1/4 0.07	115	1	60	9.5	9.1	55	SEE NOTES BELOW. REFER TO STRUCTURAL DETAIL 4/SD3 FOR ANCHORAGE

- NOTES:
1. PROVIDE BACKDRAFT DAMPER FOR ALL FANS.
 2. PROVIDE INTERLOCK WITH ALL RESPECTIVE FC UNITS.
 3. PROVIDE CONTROL TRANSFORMER AND PRESSURE TRANSDUCER.
 4. PROVIDE WITH MERV 13 FILTERS.

INDOOR FAN COIL UNIT SCHEDULE															
UNIT	MANUFACTURER AND MODEL NO.	CAPACITY (MBH)		OSA TEMP. (°F)		EAT. (°F) (DBWB)	LAT. (°F) (DBWB)	SUPPLY FAN		ELECTRICAL			OPER. WT. (LBS.)	REMARKS	
		COOLING (TOTAL/SENSIBLE)	HEATING	SUMMER (DBWB)	WINTER (DB)			CFM	E S P (IN.)	VOLTAGE	UNIT MCA	MOCAP			
<div>FC</div> <div>K-1</div>	CARRIER 40MBCQ12	12.0	12.0	91.0/68.0	36.0	57.6	95	400 H 340 M 280 L	0.6	208V / 1Ø / 60HZ	1.11	⑥	40	①②③④⑦ FOR ANCHORAGE SEE 4/SD3	
<div>FC</div> <div>K-2</div>	CARRIER 40MBCQ12	12.0	12.0	91.0/68.0	36.0	57.6	95	400 H 340 M 280 L	0.6	208V / 1Ø / 60HZ	1.11	⑥	40	①②③④⑦ FOR ANCHORAGE SEE 4/SD3	
<div>FC</div> <div>K-3</div>	CARRIER 40MBCQ18	18.0	18.0	91.0/68.0	36.0	57.6	109.7	480 H 400 M 300 L	0.6	208V / 1Ø / 60HZ	1.2	⑥	54	①②③④⑦ FOR ANCHORAGE SEE 4/SD3	
<div>FC</div> <div>K-4</div>	CARRIER 40MBCQ12	12.0	12.0	91.0/68.0	36.0	57.6	109.7	400 H 340 M 280 L	0.6	208V / 1Ø / 60HZ	1.11	⑥	40	①②③④⑦ FOR ANCHORAGE SEE 4/SD3	
<div>FC</div> <div>C-1</div>	CARRIER 40MBCQ12	12.0	12.0	91.0/68.0	36.0	57.6	109.7	400 H 340 M 280 L	0.6	208V / 1Ø / 60HZ	1.11	⑥	40	①②③④⑦ FOR ANCHORAGE SEE 4/SD3	
<div>FC</div> <div>C-2</div>	CARRIER 40MBDQ24	24.0	24.0	91.0/68.0	36.0	63.1	87.4	780 H 700 M 440 L	0.6	208V / 1Ø / 60HZ	1.2	⑥	87	①②③④⑦ FOR ANCHORAGE SEE 4/SD3	

- NOTES:
1. PROVIDE WITH CONDENSATE DRAIN PAN (PRIMARY AND SECONDARY) FOR FAN COIL UNIT AND ASSOCIATED PIPING.
 2. PROVIDE WITH FACTORY FURNISHED & INSTALLED CONDENSATE DRAIN LIFT PUMP. (CONDENSATE PUMP SHALL BE POWERED THRU INDOOR FAN COIL UNIT).
 3. SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
 4. CONNECT TO EMS FOR CONTROLS.
 5. CEILING MOUNTED FAN COIL UNIT.
 6. CASSETTE TYPE DUCTLESS FAN COIL UNIT. POWERED BY OUTDOOR HEAT PUMP.
 7. PROVIDE WITH MEDIUM STATIC MOTOR.

OUTDOOR HEAT PUMP UNIT SCHEDULE																
UNIT	MANUFACTURER AND MODEL NO.	COOLING CAP. (MBH)		COP/ HSPF	AMB. TEMP. (°F)		E.E.R. I.E.E.R.	ELECTRICAL					OPER WT. (LBS)	REMARKS		
		COOLING (TOTAL/SENSIBLE)	HEATING		SUMMER (DBWB)	WINTER (DB)		COMPRESSOR QTY.	RLA	OUTDOOR FAN QTY.	MCA	MOC/P			VOLTAGE	
<div>HP</div> <div>K-1</div>	CARRIER 38MARBQ12AA3	12.0	12.0	3.22/ 10.6	91.0/68.0	36.0	12.7 EER 21.5 SEER	1	8.5	1	15	15	208V / 1Ø / 60HZ	75	① THRU ⑧ FOR ANCHORAGE SEE 6/M6.1	
<div>HP</div> <div>K-2</div>	CARRIER 38MARBQ12AA3	12.0	12.0	3.22/ 10.6	91.0/68.0	36.0	12.7 EER 21.5 SEER	1	8.5	1	15	15	208V / 1Ø / 60HZ	75	① THRU ⑧ FOR ANCHORAGE SEE 6/M6.1	
<div>HP</div> <div>K-3</div>	CARRIER 38MARBQ18AA3	18.0	18.0	2.93/ 11.0	91.0/68.0	36.0	12.5 EER 19.6 SEER	1	14.5	1	16	25	208V / 1Ø / 60HZ	101	① THRU ⑧ FOR ANCHORAGE SEE 6/M6.1	
<div>HP</div> <div>K-4</div>	CARRIER 38MARBQ12AA3	12.0	12.0	3.22/ 10.6	91.0/68.0	36.0	12.7 EER 21.5 SEER	1	8.5	1	15	15	208V / 1Ø / 60HZ	75	① THRU ⑧ FOR ANCHORAGE SEE 6/M6.1	
<div>HP</div> <div>C-1</div>	CARRIER 38MARBQ12AA3	12.0	12.0	3.22/ 10.6	91.0/68.0	36.0	12.7 EER 21.5 SEER	1	8.5	1	15	15	208V / 1Ø / 60HZ	75	① THRU ⑧ FOR ANCHORAGE SEE 6/M6.1	
<div>HP</div> <div>C-2</div>	CARRIER 38MARBQ24AA3	24.0	24.0	3.66/ 12.6	91.0/68.0	36.0	12.5 EER 20.6 SEER	1	14.8	1	25	35	208V / 1Ø / 60HZ	135	① THRU ⑧ FOR ANCHORAGE SEE 6/M6.1	

- NOTES:
1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES.
 2. PROVIDE LOW AMBIENT KIT.
 3. PROVIDE 3/4" EXPAND METAL CONDENSING COIL GUARD.
 4. PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS.
 5. SIZE REFRIGERANT (R410A) LINES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED.
 6. PROVIDE HAIL-GUARD.
 7. PROVIDE WITH HOUSEKEEPING PAD.
 8. ALL HEAT PUMP UNITS ARE ROOF MOUNTED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023



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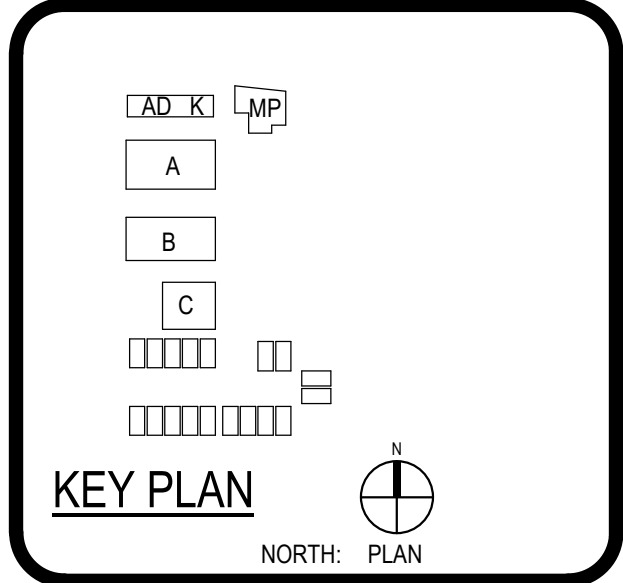
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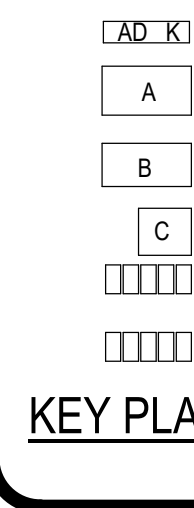


CLIENT
WESTMINSTER SCHOOL DISTRICT
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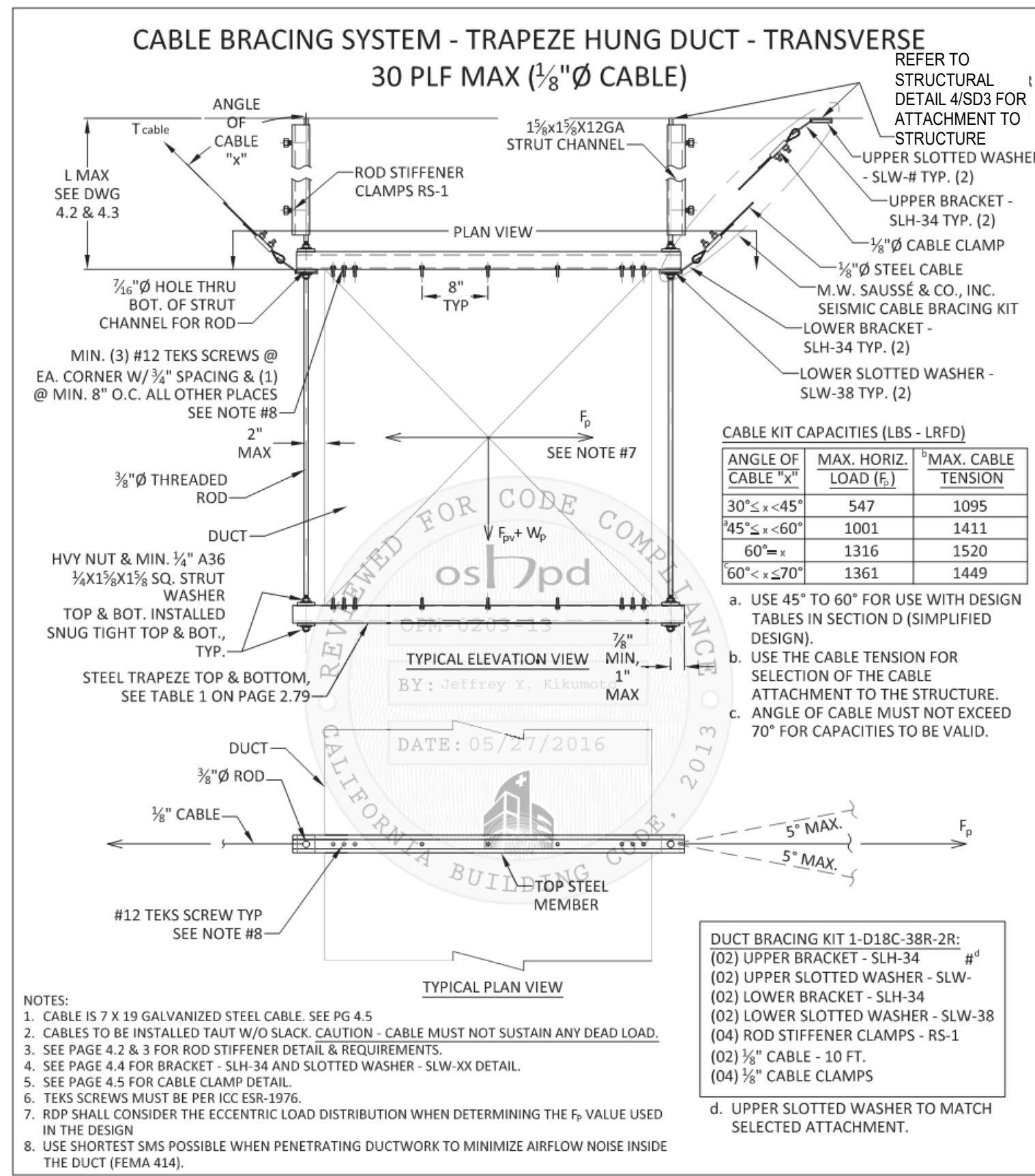
REVISIONS

No.	Description	Date

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MECHANICAL SCHEDULES

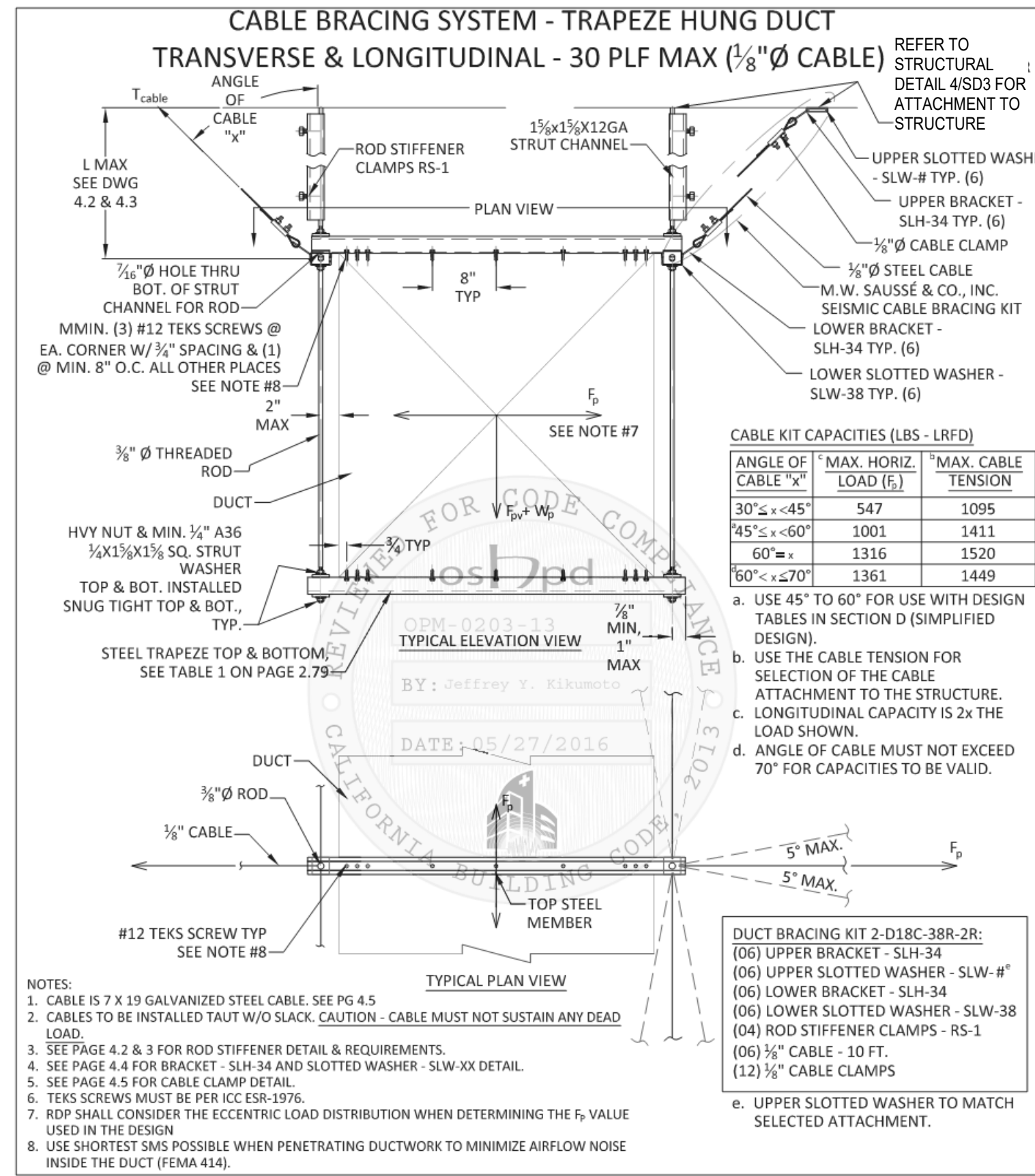
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<h1 style="margin: 0;">PBK</h1>																				
ARCHITECT	PBK Architects, Inc. COSTA MESA 600 Anton Boulevard, Suite 1375 Costa Mesa, CA 92626 P 949-548-5000 <small>PBK.com</small>																			
<div style="display: flex; justify-content: space-between;"><div style="width: 60%;"><h2 style="writing-mode: vertical-rl; transform: rotate(180deg);">SCHMITT E.S. HVAC UPGRADE & MODERNIZATION</h2></div><div style="width: 35%; text-align: right;"><p>PROJECT ADDRESS: 1442 Hoover St Westminster, CA 92683</p><p>DSA SUBMITTAL</p></div></div>																				
<div style="display: flex; align-items: center; justify-content: space-between;"><div style="width: 40%;"><p>KEY PLAN</p></div><div style="width: 55%; text-align: right;"><p>CONSULTANT</p><div style="text-align: center;">LEAF ENGINEERS</div><p>8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987.0909 leafengineers.com</p></div></div>																				
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<h2 style="margin: 0;">MECHANICAL DETAILS</h2>																				
<h1 style="margin: 0;">M6.1</h1>																				



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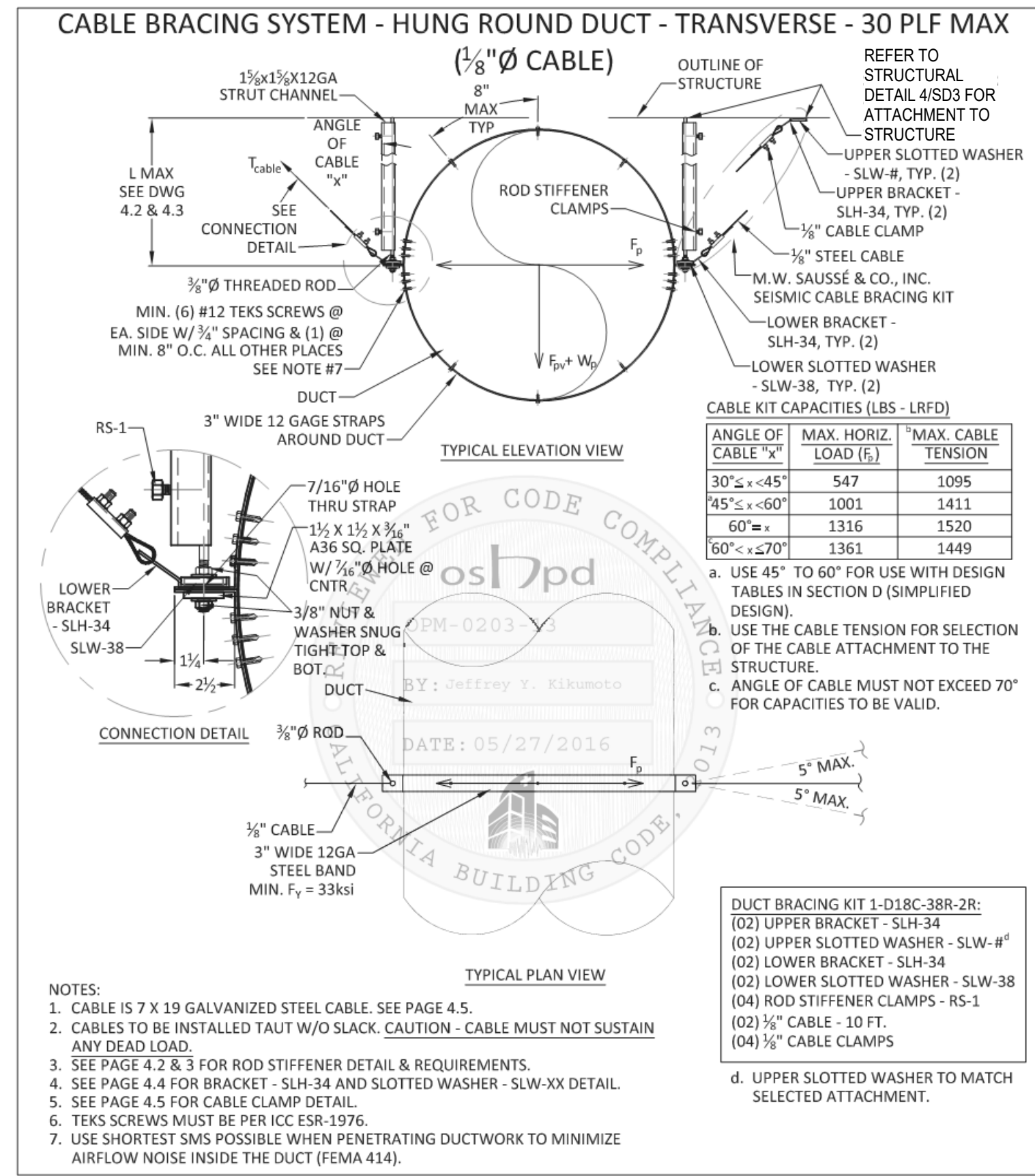
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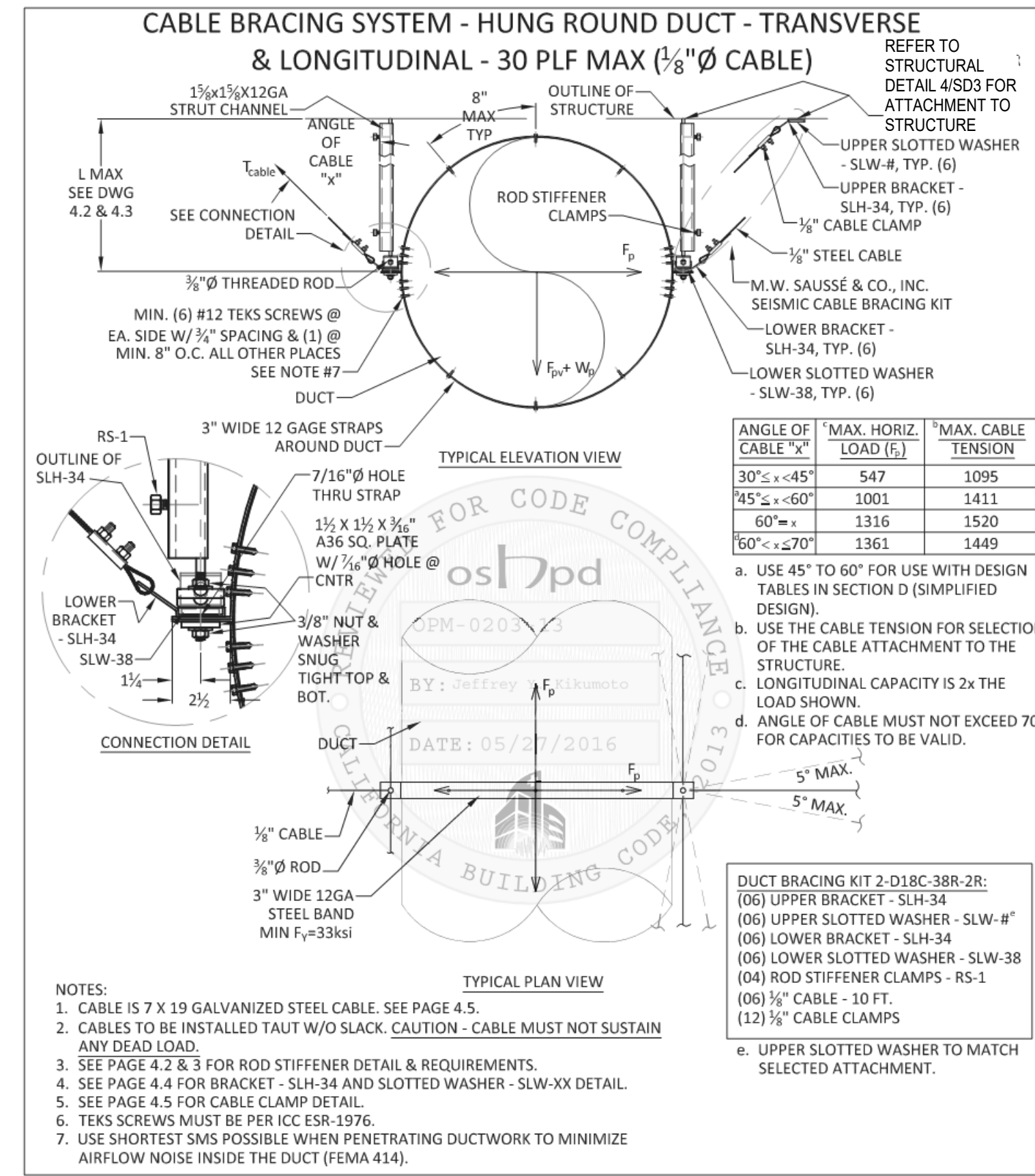
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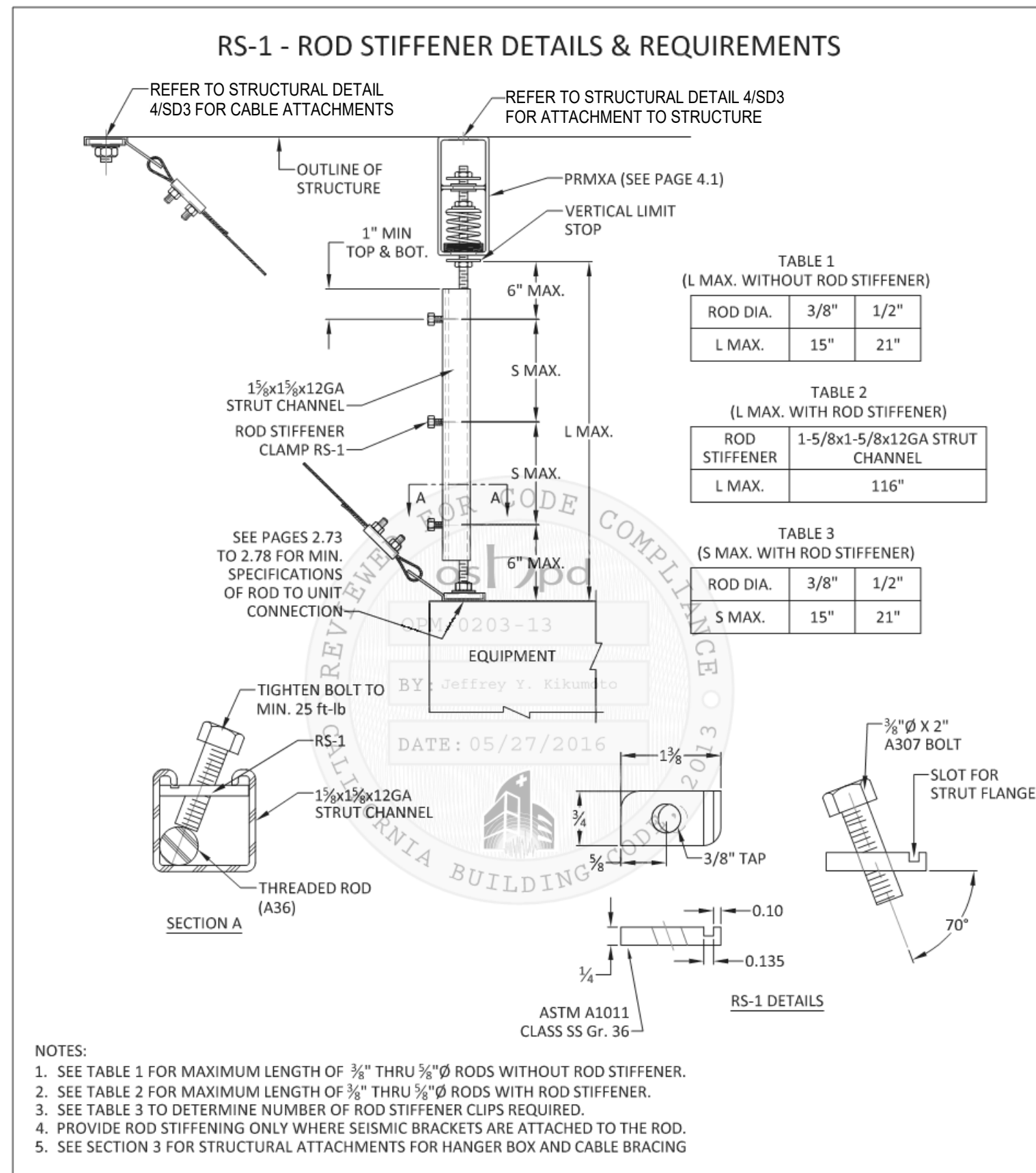
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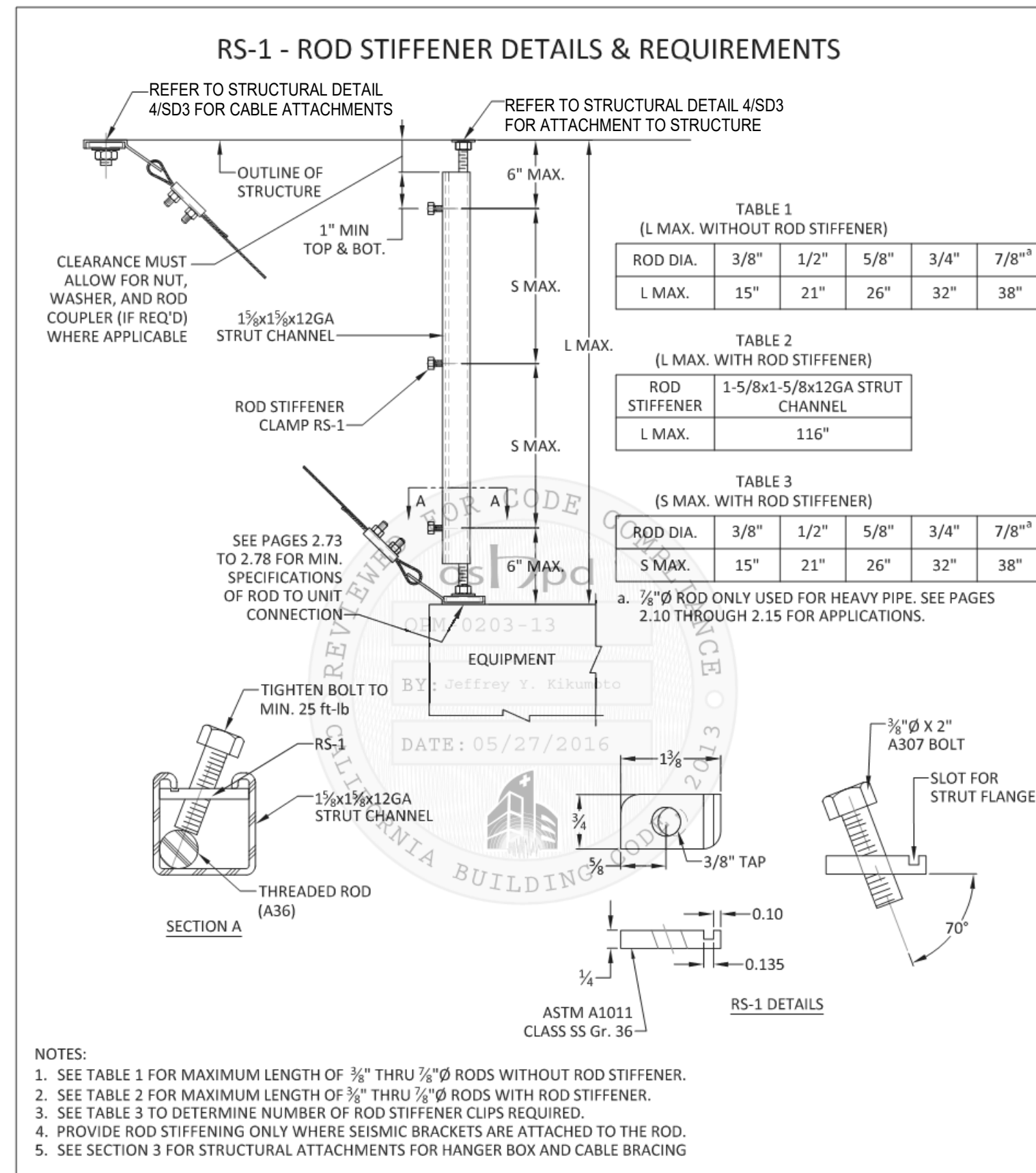
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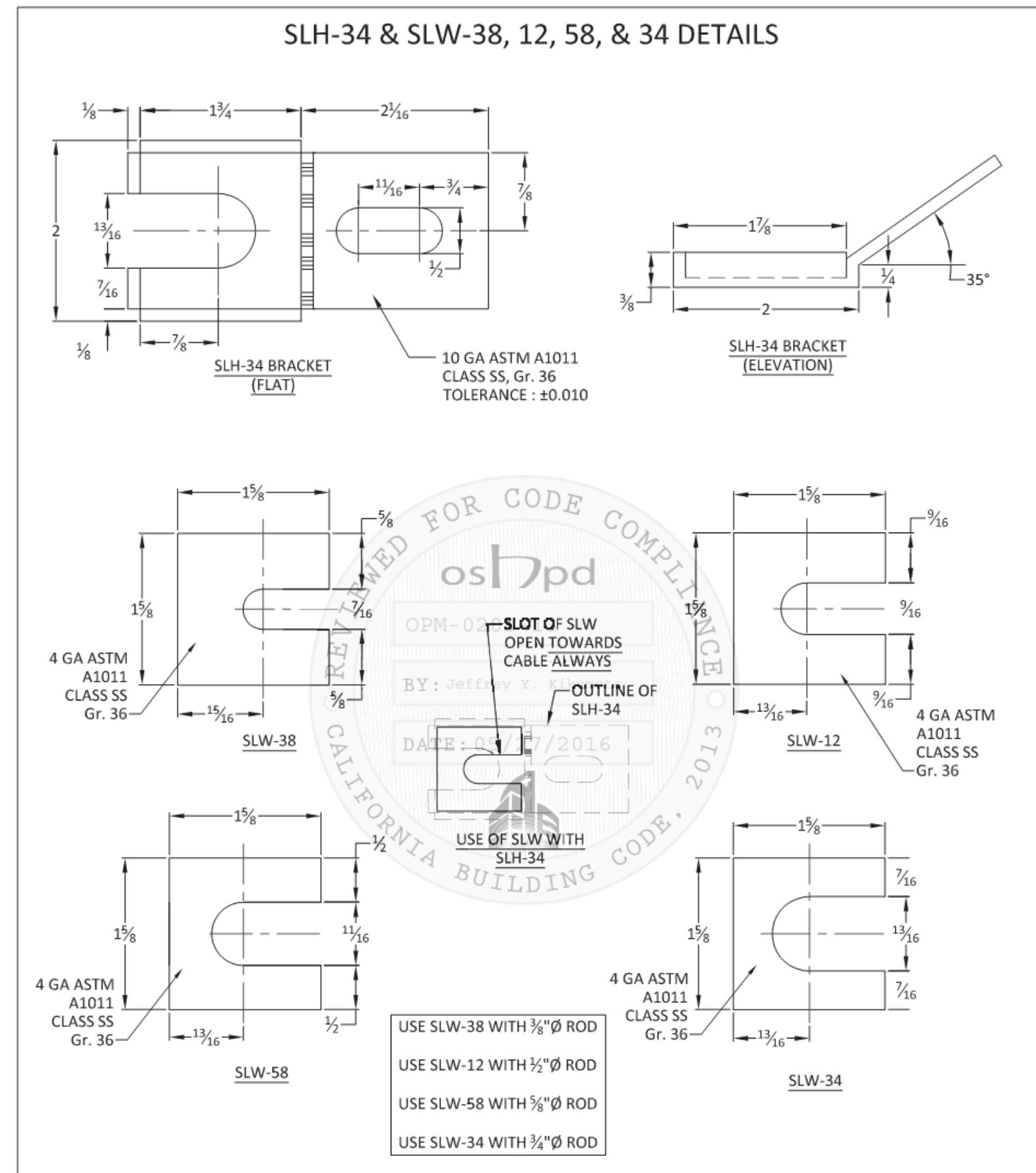
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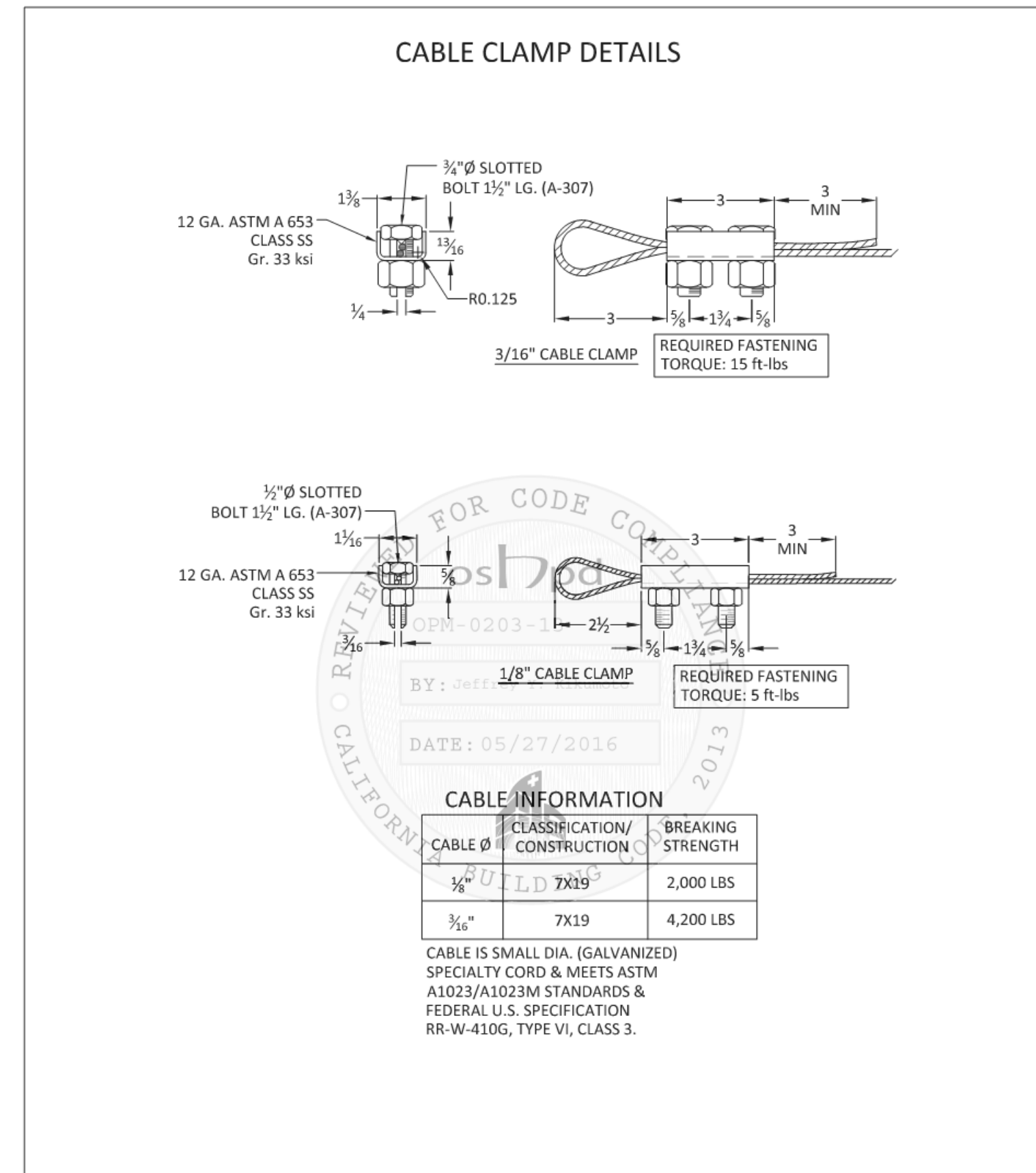
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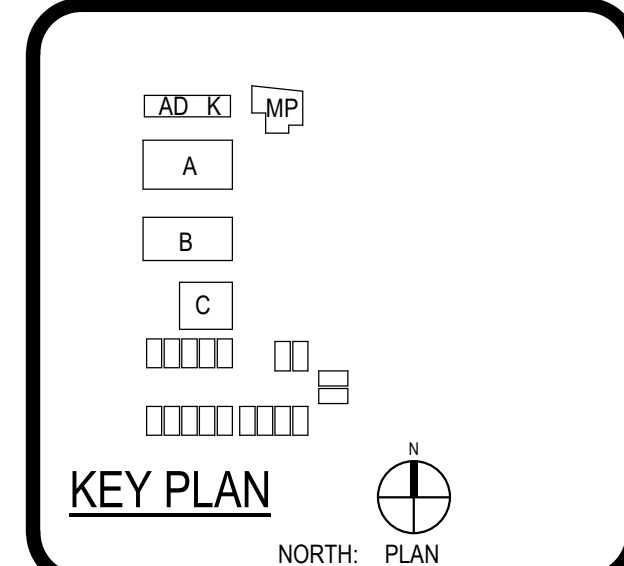
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CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE: 12-28-2022 PROJECT NUMBER: 220307

No.	Description	Date

DSA SUBMITAL

MECHANICAL DETAILS

ELECTRICAL SYMBOL LEGEND	
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. 2. DASHED ELECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT. 3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.	
CIRCUIT RELATED:	
	LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN. LONGER TICK(S) INDICATE NEUTRAL WIRE(S). SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S). SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S). DOT(S) INDICATE GROUNDING CONDUCTOR(S). DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE. DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING. SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT. "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT. PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET. COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THINWTHWN CONDUCTORS IN A SINGLE RACEWAY. GROUNDING CONDUCTOR IS NOT COUNTED. NOTE: HOMERUN INDICATES INSTALLATION OF NEW WIRE AND CONDUIT (#12 WIRE, 3/4"C, UNLESS OTHERWISE NOTED) FROM SOURCE PANELBOARD TO LOAD. HOMERUN INDICATES CONNECTION OF NEW LOADS TO EXISTING CIRCUITS IN LIEU OF PANELBOARD WHERE NOTED ON PLANS.
	JUNCTION BOX
	GROUNDING FIXTURE
LIGHTING:	
	LED LIGHTING FIXTURE. LETTER INDICATES TYPE. SMALL LETTER INDICATES SWITCH CONTROL. NUMBER INDICATES CIRCUIT. CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM. FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL.
	STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE. SMALL LETTER INDICATES SWITCH CONTROL. NUMBER INDICATES CIRCUIT. FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL.
	LED LIGHTING FIXTURE. LETTER INDICATES TYPE. SMALL LETTER INDICATES SWITCH CONTROL. NUMBER INDICATES CIRCUIT. FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL.
	DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION.
	WALL OR BRACKET MOUNTED FIXTURE OR DEVICE
	EXIT LIGHT FIXTURE. LETTER INDICATES TYPE. NUMBER INDICATES CIRCUIT. NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE. PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS.
CONTROL:	
	SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED. "P" INDICATES PILOT LIGHT. "WP" INDICATES WEATHERPROOF. "K" INDICATES KEY POERATED. "MO" INDICATES SPDT MOMENTARY CONTACT. "2" INDICATES DPDT. "3" INDICATES 3-WAY. "4" INDICATES 4-WAY. "M" INDICATES MANUAL MOTOR STARTER. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER.
	WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600. "3D" INDICATES 3-WAY DIMMER
	MULTI-LEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
	DIGITAL TIME SWITCH
	PHOTOELECTRIC CONTROL
	EMERGENCY POWER OFF (EPO) PUSHBUTTON
	PUSH BUTTON
	WALL MOUNT OCCUPANCY SENSOR
	WALL MOUNT OCCUPANCY SENSOR WITH DIMMING CONTROLS
	DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED RESTROOM OCCUPANCY SENSOR
	CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR
	CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR
POWER OUTLETS:	
	20A-125V DUPLEX RECEPTACLE
	20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE
	20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER
	20A-125V CONTROLLED DUPLEX RECEPTACLE
	20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE
	20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS
	20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLGY AS DUPLEX RECEPTACLE
	SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED. RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED). "C" INDICATES CLOCK OUTLET
	20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX. PROVIDE CARPED FLANGE WHERE APPLICABLE
LC1-X	CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. SEE PANEL SCHEDULES FOR INFORMATION.
TELEPHONE/DATA:	
	FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE
	WALL COMMUNICATIONS OR DATA OUTLET. REFER TO "TS" SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS
	FLUSH FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO "TS" SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE
	SURFACE FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO "TS" SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE
EQUIPMENT:	
+42"	A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE
	MOTOR
	DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED. "NF" INDICATES NON-FUSIBLE. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUS WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30NF/3 UNLESS OTHERWISE NOTED
	SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE
	MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED
	COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER
	CONTACTOR
	PANELBOARD
	SWITCHBOARD / DP
	TRANSFORMER
	GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN CEC ARTICLE 250
	BELL. "WP" INDICATED OUTDOOR RATED
REMODEL:	
(E)	EQUIPMENT WITH "E" ADJACENT IS EXISTING TO REMAIN.
(R)	EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.
(RR)	EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.
(ER)	EQUIPMENT WITH "ER" ADJACENT IS RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.
	NO TAG INDICATES NEW EQUIPMENT.
(E) PNL-CKT	CIRCUIT DESIGNATION WITH PREFIX "YE" DENOTES EXISTING CIRCUIT AND EQUIPMENT IS TO REMAIN.

GENERAL NOTES	
1. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.	
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA (DRAWINGS AND SPECIFICATIONS) HE SHALL CHECK THE CONTRACT DOCUMENTS OR THE OTHER TRADES AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	
3. THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.	
4. ALL ELECTRICAL WORK REFERENCED HEREIN SHALL BE COORDINATED WITH OTHER TRADES AND SITE CONDITIONS. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.	
5. PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS, BRANCH CIRCUITS OR SIGNAL AND COMMUNICATIONS SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION.	
6. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ENGINEER 14 DAYS PRIOR TO THE OUTAGE AND OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANEL BOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.	
7. AFTER ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.	
8. FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF PUNCH LIST COMPLETION.	
9. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.	
10. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, GRADEBEAMS, FLOORS OR STRUCTURAL STEEL MEMBER SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.	
11. FINAL CONNECTIONS TO VIBRATING EQUIPMENT AND AT SEISMIC SEPARATIONS SHALL BE FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS. AND LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.	
12. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE AND CONNECTION METHODS IN HVAC AIR-PLenums SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE.	
13. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.	
14. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED WALLS, OR 24" MINIMUM BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.	
15. LOCATE ELECTRICAL EQUIPMENT AND BOXES IN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS. ACCESS DOORS SHALL BE A MINIMUM DIMENSION OF 24" x 24" ACCESS DOOR LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.	
16. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILING TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS OF ACCESS DOORS SHALL BE PROVIDED IN THE DRAWINGS OR SPECIFICATIONS TO PENETRATE. OPENINGS IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.	
17. WHENEVER A DISCREPANCY OF ANY SYSTEM AND/OR EQUIPMENT ARISES ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.	
18. STRAIGHT FEEDER BRANCH CIRCUIT AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS.	
19. PANEL SCHEDULES SHALL BE REVISED TO REFLECT FINAL ROOM NAMES AND NUMBERS USING OWNER'S ROOM NAMES AND NUMBERS DESIGNATIONS. CONTRACTOR TO PROVIDE FINAL PANEL SCHEDULE TO EECOR AT COMPLETION OF PROJECT.	
20. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES, PROVIDE EXTENSION RINGS AS REQUIRED SO THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX PER CALIFORNIA ELECTRICAL CODE 314.20 SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS.	
21. COORDINATE LOCATIONS OF ALL SEISMIC SEPARATIONS.	

UTILITY PENETRATIONS NOTE	
UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED UL LISTED SYSTEM OR MATERIAL.	
STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILING, OR AREA SEPARATION UNLESS THEY:	
1. OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEEDS TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.	
2. OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED TO BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE FEET OF WALL.	
STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.	
FIRESTOPPING MATERIAL: MPP-1 MOLDABLE PUTTY PADS	FLAMESAFE FSP 1077 FIRESTOP PADS INTERNATIONAL PROTECTIVE COATINGS CAKIKURST, NJ
3M CONTRACTOR PRODUCTS MINNEAPOLIS, MN. 3M TEST REPORT NO. 1167 DATED AUGUST 21, 1987	FSP FIRESTOP PUTTY PADS HEVL-DUTY NELSON PRODUCTS TULSA, OK
STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.	
UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD FRAMING OF THE WALL. PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH IN SMOKE WALLS OR PARTITIONS. THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.	
APPLICABLE CODES	
PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020 * 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR * 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS 20 ASME A17.1 (CSA B44-15) SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35) NOTE: CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION	

GENERAL NOTES	
22. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF ALL LOW VOLTAGE / TECHNOLOGY SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. CABLING CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT.	
23. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY THE EIA AND THE CEC.	
24. ALL AC POWER CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM TECHNOLOGY LOW VOLTAGE CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.	
25. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS. BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.	
26. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.	
27. ALL CONDUCTORS SHALL BE UL LISTED, COPPER #12 MINIMUM SIZE, TYPE THINWTHWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY, UNLESS NOTED OTHERWISE.	
28. ALL CABLING SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH MAXIMUM 40% CABLE FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4" INTERIOR & 1" EXTERIOR.	
29. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.	
EQUIPMENT ANCHORAGE NOTES	
MEP COMPONENT 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 BRACE TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 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, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOL T RECEPTACLES HAVING A 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: 1. 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. 2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND 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.	
STRUCTURAL NOTE	
UNLESS SPECIFICALLY SHOWN ON THESE PLANS, STRUCTURAL MEMBERS SHALL NOT BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.	
MOUNTING OVER OBSTRUCTION DETAIL	
2019 CBC FIG. 11B-308.2.1 2019 CBC FIG. 11B-308.2.2 2019 CBC FIG. 11B-308.3.2	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input checked="" type="checkbox"/> OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS. MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHDP PRE-APPROVAL (OPM #) # _____.	
UL LISTINGS NOTE	
ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS' LABORATORIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY. ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.	

SHEET INDEX	
SHEET	DESCRIPTION
E0.0	ELECTRICAL SHEET INDEX, LEGEND, AND NOTES
E0.1	ELECTRICAL TITLE 24
E1.0	ELECTRICAL SITE PLAN
E2.1	ELECTRICAL POWER PLANS - ADMIN & KINDERGARTEN, BLDG A,B & C
E2.2	ELECTRICAL LIGHTING PLANS - ADMIN & KINDERGARTEN, BLDG A,B & C
E4.1	ELECTRICAL ROOF PLANS
E5.1	ELECTRICAL SINGLE LINE DIAGRAM
E5.2	ELECTRICAL PANEL SCHEDULES
E6.1	ELECTRICAL DETAILS
DIAGRAMMATIC NOTE	
DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.	
DEVICE LOCATIONS NOTE	
THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT, DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.	
STRUCTURAL NOTE	
UNLESS SPECIFICALLY SHOWN ON THESE PLANS, STRUCTURAL MEMBERS SHALL NOT BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.	
KEY PLAN	
NORTH: PLAN TRUE	
MOUNTING OVER OBSTRUCTION DETAIL	
2019 CBC FIG. 11B-308.2.1 2019 CBC FIG. 11B-308.2.2 2019 CBC FIG. 11B-308.3.2	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input checked="" type="checkbox"/> OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS. MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHDP PRE-APPROVAL (OPM #) # _____.	
UL LISTINGS NOTE	
ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS' LABORATORIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY. ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL. NO. 04-121817 DSA FILE NO. 30-43

Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220308

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SHEET
INDEX, LEGEND, AND
NOTES

E0.0

STATE OF CALIFORNIA

INDOOR LIGHTING

NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

NRCC-LTI-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)(2) for indoor lighting scopes using the prescriptive path.

Project Name: Schmitt Elementary - HVAC Upgrade & Modernization

Report Page: Page 1 of 6

Project Address: 14142 HOOVER ST. WESTMINSTER CA. 92683

Date Prepared: 12-15-2022

A. GENERAL INFORMATION

01 Project Location (city)

Westminster

04 Total Conditioned Floor Area (ft²)

22,563

02 Climate Zone

6

05 Total Unconditioned Floor Area (ft²)

03 Occupancy Types Within Project (select all that apply):

06 # of Stories (Habitable Above Grade)

1

☐ Office

☐ Retail

☐ Warehouse

☐ Hotel/Motel

☒ School

☐ Support Areas

☐ Parking Garage

☐ High-Rise Residential

☐ Relocatable

☐ Healthcare

☐ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2) for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work

Conditioned Spaces

Unconditioned Spaces

01

02

03

04

05

My Project Consists of (check all that apply):

Calculation Method

Area (ft²)

Calculation Method

Area (ft²)

☐ New Lighting System

☒ Altered Lighting System

Complete Building

22,563

Total Area of Work (ft²)

22,563

C. COMPLIANCE RESULTS

Table Instructions: 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).

01

02

03

04

05

06

07

08

09

Complete Building §140.6(c)(1)

Area Category §140.6(c)(2)

Area Category Additional §140.6(c)(2)(+) (+)

Tailored §140.6(c)(3) (+)

Total Allowed (Watts)

≥

Total Designed (Watts)

PAF Control Credits §140.6(a)(2) (-)

Total Adjusted (Watts) *Includes Adjustments

=

05 Must be ≥ 08 §140.6

Conditioned:

14,015.95

(See Table I)

(See Table J)

(See Table K)

=

14,015.95

≥

9,399

(See Table P)

=

9,399

COMPLIES

Unconditioned:

=

≥

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

April 2021

STATE OF CALIFORNIA

INDOOR LIGHTING

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Project Name: Schmitt Elementary - HVAC Upgrade & Modernization

Report Page: Page 4 of 6

Project Address: 14142 HOOVER ST. WESTMINSTER CA. 92683

Date Prepared: 12-15-2022

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

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Project Name: Schmitt Elementary - HVAC Upgrade & Modernization

Report Page: Page 2 of 6

Project Address: 14142 HOOVER ST. WESTMINSTER CA. 92683

Date Prepared: 12-15-2022

Controls Compliance (See Table H for Details)

COMPLIES

Rated Power Reduction Compliance (See Table Q for Details)

Not Applicable

D. EXCEPTIONAL CONDITIONS

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

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

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 luminaire²

How Wattage is determined

Total number luminaires

Exempt per §140.6(a)(3)

Design Watts

Field Inspector

Pass

Fail

FX-A & C

2x4 TROFFER

☐

☐

38

Mfr. Spec²

221

☐

8,398

☐

☐

FX-B & E

1x4 TROFFER

☐

☐

37

Mfr. Spec²

26

☐

962

☐

☐

FX-D

7" DOWNLIGHT

☐

☐

13

Mfr. Spec²

3

☐

39

☐

☐

Total Designed Watts CONDITIONED SPACES:

9,399

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

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Project Name: Schmitt Elementary - HVAC Upgrade & Modernization

Report Page: Page 3 of 6

Project Address: 14142 HOOVER ST. WESTMINSTER CA. 92683

Date Prepared: 12-15-2022

Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls

01

02

03

Mandatory Demand Response §110.12(c)

Shut-Off Controls §130.1(c)

Field Inspector

Required > 10,000 SF

See Area/Space Level Controls

☐

☐

Area Level Controls

04

05

06

07

08

09

10

11

12

Area Description

Complete Building or Area Category Primary Function Area

Area Controls §130.1(a)

Multi-Level Controls §130.1(a)

Shut-Off Controls §130.1(c)

Primary/Skylit Daylighting §130.1(d)

Secondary Daylighting §140.6(d)

Interlocked Systems §140.6(a)(1)

Field Inspector

Pass

Fail

CLASSROOM

School Building

Manual ON/OFF

Dimmer

Occ. Sensor

NA

NA

☐

☐

☐

ADMIN

Office Building

Manual ON/OFF

Dimmer

Occ. Sensor

NA

NA

☐

☐

☐

RESTROOM

School Building

Manual ON/OFF

Dimmer

Occ. Sensor

NA

NA

☐

☐

☐

¹ NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.

EX: Conference 1. Primary/Skylit Daylighting: Exempt because less than 120 watts of general lighting.

EXCEPTION 1 to §130.1(d)(2)

13

Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(d) 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 Allowances / Adjustment

Area Category

PAF

CLASSROOM

School Building

0.65

21,563

14,015.95

☐

☐

TOTAL:

21,563

14,015.95

See Tables J or P for detail

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

April 2021

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Project Name: Schmitt Elementary - HVAC Upgrade & Modernization

Report Page: Page 6 of 6

Project Address: 14142 HOOVER ST. WESTMINSTER CA. 92683

Date Prepared: 12-15-2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:

NICOLE OROPEZA

Documentation Author Signature:

Nicole Oropeza

Company:

LEAF ENGINEERS

Signature Date:

12-15-2022

Address:

8163 ROCHESTER AVE.

CEA/ HERS Certification Identification (if applicable):

City/State/Zip:

RANCHO CUCAMONGA, CA. 91730

Phone:

909-987-0909

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:

RONALD DELA CRUZ

Responsible Designer Signature:

Ronald Dela Cruz

Company:

LEAF ENGINEERS

Date Signed:

12-15-2022

Address:

8163 ROCHESTER AVE.

License:

E23576

City/State/Zip:

RANCHO CUCAMONGA, CA. 91730

Phone:

909-987-0909

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

April 2021

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
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600 Arlon Boulevard, Suite 1375
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P 949-546-5000

CONSULTANT LEAF Engineers
LEAF ENGINEERS
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Rancho Cucamonga, CA 91730
909-987-0909
leafengineers.com

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St.
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL. NO. 04-121817 DSA FILE NO. 30-43

KEY PLAN

NORTH: PLAN TRUE

Consultant
RONALD C. DELA CRUZ
REGISTERED PROFESSIONAL ENGINEER
No. E 23576
Exp. 03/31/2025
DATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220308

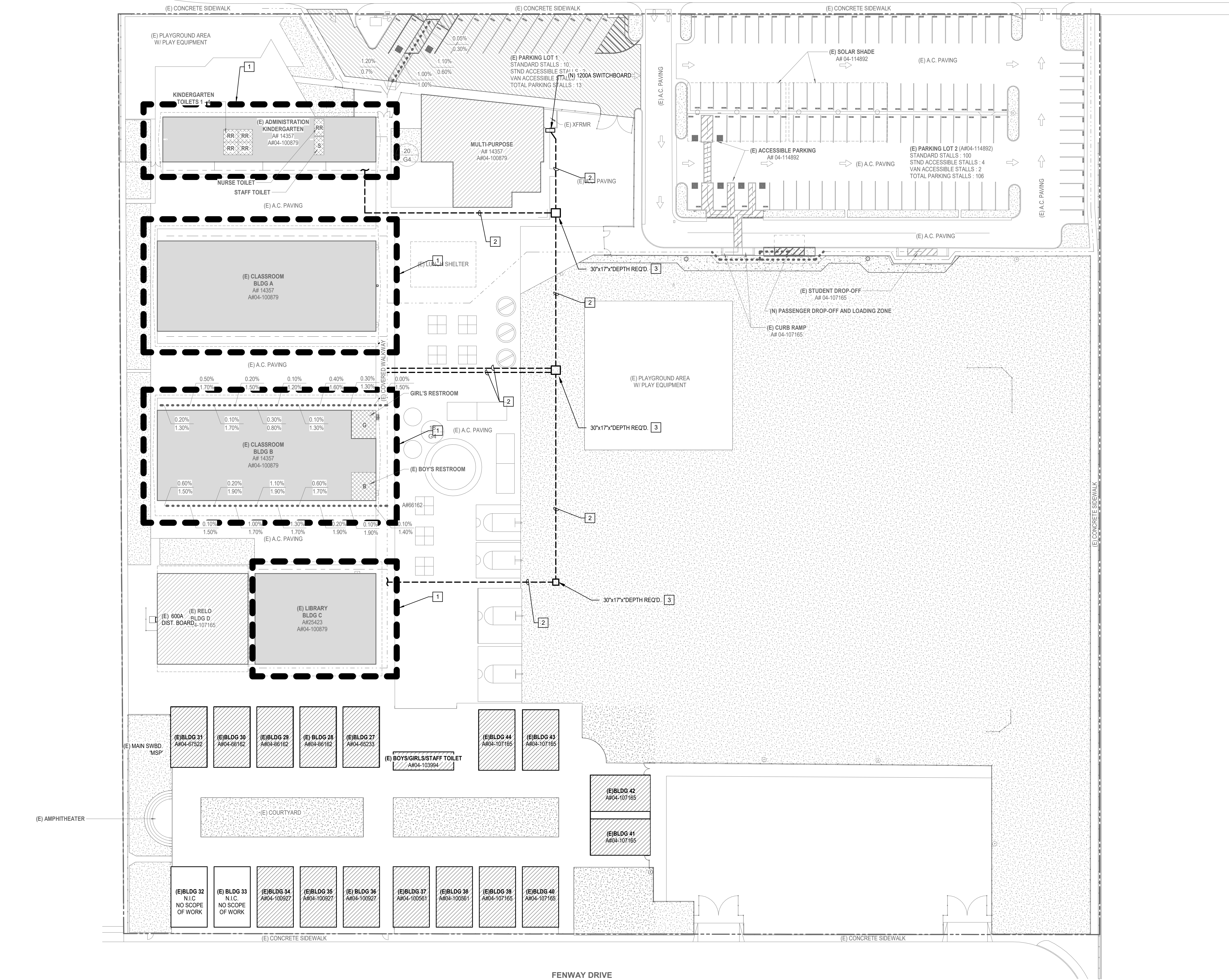
REVISIONS
No. Description Date

DSA SUBMITTAL

ELECTRICAL TITLE 24

E0.1

FILE PATH: Z:\Projects...
5/11/2023 11:47:08 AM



GENERAL NOTES

- THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH OWNERS REPRESENTATIVE PRIOR TO STARTING ANY WORK.
- ELECTRICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS AND FIELD VISIT OF THE ELECTRICAL SYSTEM. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE ELECTRICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.
- COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
- CONTRACTOR SHALL BE RESPONSIBLE TO DEMOLISH TEMPORARY INFRASTRUCTURE SERVING THE INTERIM HOUSING AND BRING IT BACK TO ORIGINAL CONDITION, UPON COMPLETION OF THE MODERNIZATION PROJECT.

KEY NOTES

- SEE ENLARGED PLANS ON SHEETS E2.1 & E2.2 FOR MORE INFORMATION.
- SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR SIZING.
- PROVIDE NEW HEAVY DUTY TRAFFIC RATED IN-GROUND PULLBOX.

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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. 30-43

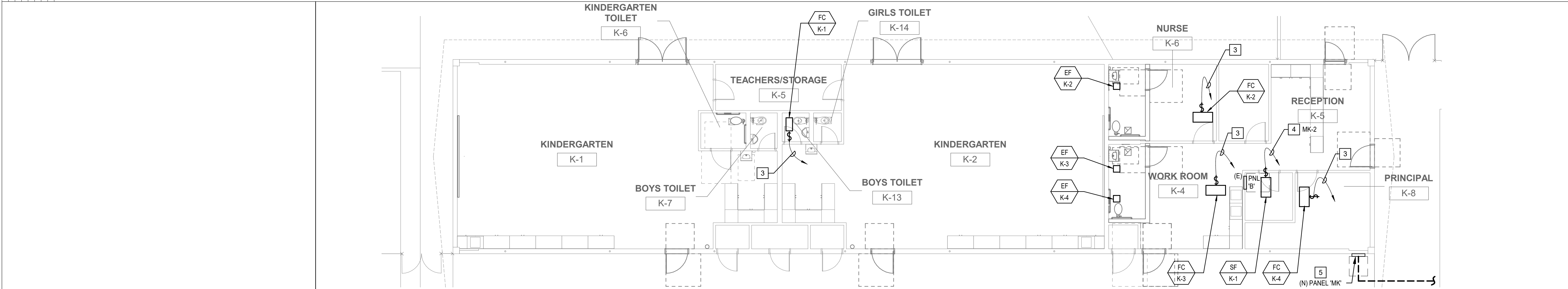
KEY PLAN
NORTH: PLAN TRUE

Consultant
REGISTERED PROFESSIONAL ENGINEER
No. E 22575
Exp. 6/30/2023
ELECTRICITY
STATE OF CALIFORNIA

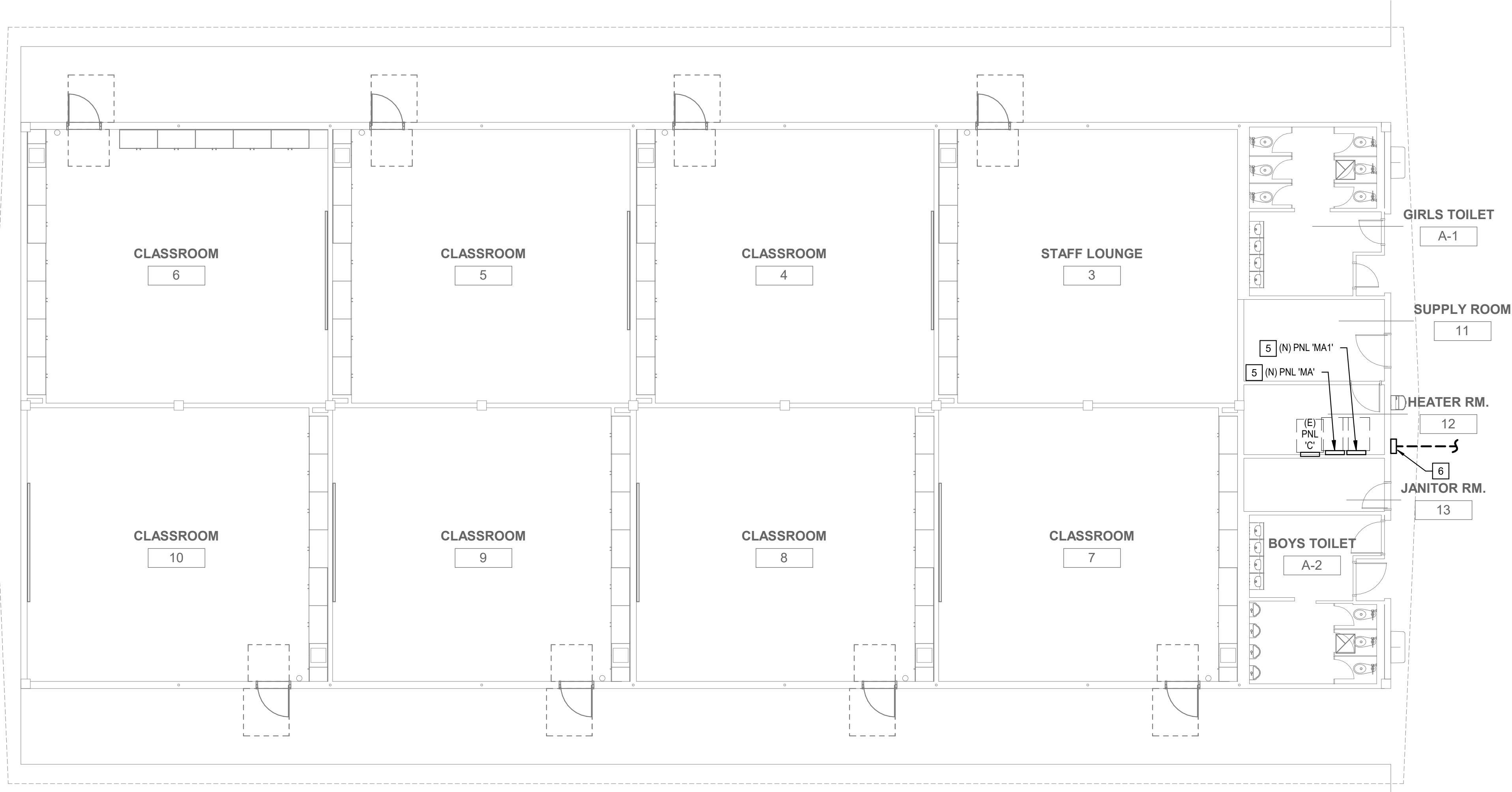
Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220308
REVISIONS
No. Description Date

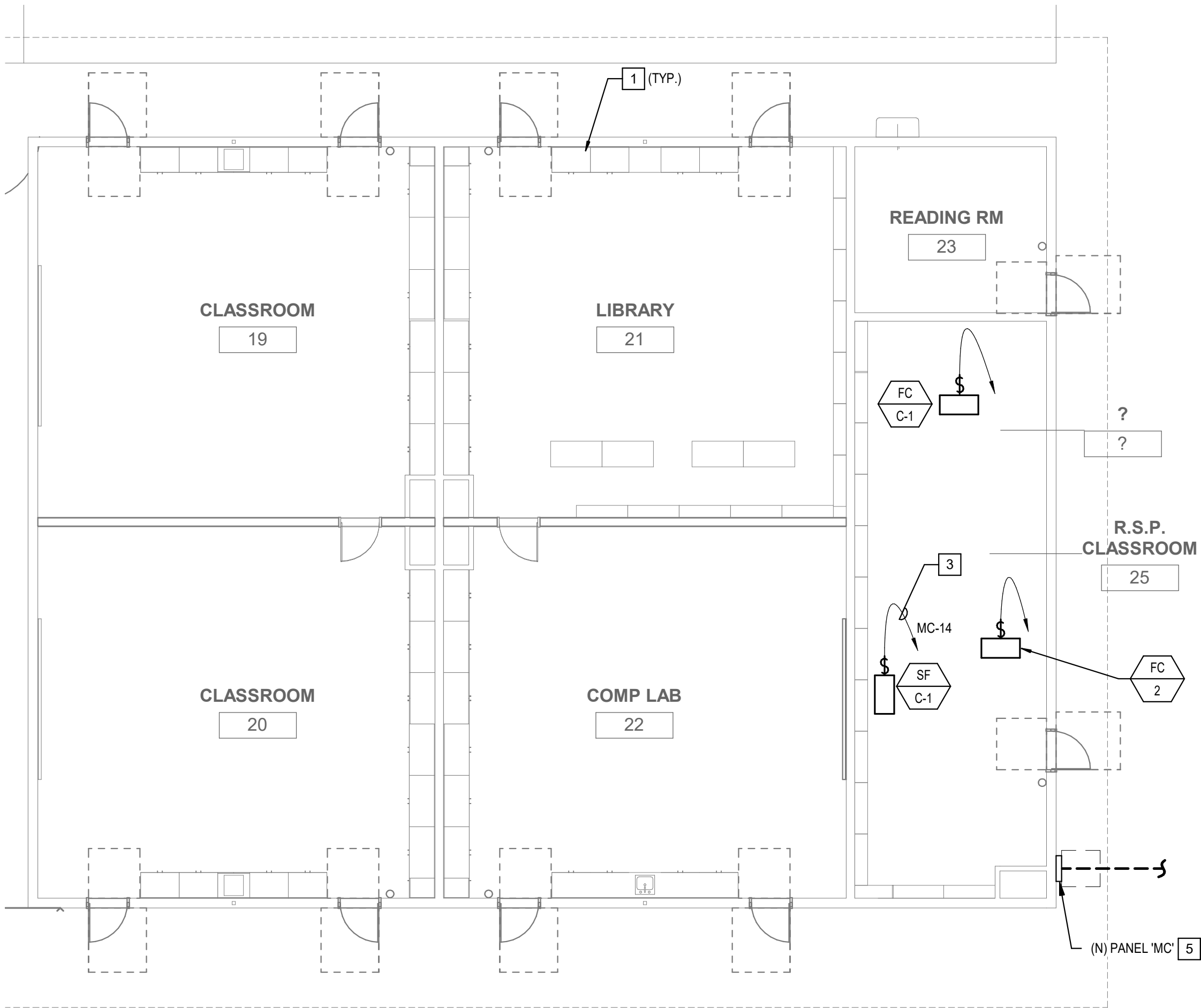
DSA SUBMITTAL
ELECTRICAL SITE PLAN



4 POWER PLAN - ADMIN/KINDERGARTEN
1/8" = 1'-0"



3 POWER PLAN - BUILDING A
1/8" = 1'-0"



2 POWER PLAN - BUILDING C
1/8" = 1'-0"



1 POWER PLAN - BUILDING B
1/8" = 1'-0"

GENERAL NOTES

1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. ALL EXISTING POWER/DATA OUTLETS SHALL REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
3. ALL EXISTING CEILING MOUNTED DEVICES SHALL BE REMOVED, STORED AND PROTECTED FOR RE-INSTALLATION.
4. FOR ALL EXISTING CIRCUITS AND DEVICES THAT ARE TO REMAIN, CONTRACTOR TO INCLUDE IN THEIR BID TO REMOVE AND REPLACE ALL MC CABLES ABOVE CEILING SPACES. INTERCEPT ALL CONDUITS ABOVE THE CEILING. PROVIDE NEW HOMERUNS WITH MINIMUM 3/4" EMT AND NEW WIRING THAT MATCHES THE EXISTING, BACK TO THE PANEL SOURCE.

KEY NOTES

- 1 EXISTING POWER/DATA OUTLETS SHALL REMAIN AND BE PROTECTED IN PLACE.
- 2 PROVIDE LOCAL DISCONNECT SWITCH TO NEW MECHANICAL UNITS.
- 3 NEW FAN COIL IS POWERED FROM OUTDOOR HEAT PUMP. PROVIDE 2#12 + 1#12 GRD., STUB UP TO ROOFTOP PACKAGE UNIT.
- 4 PROVIDE 120V POWER CONNECTION TO SUPPLY FAN.
- 5 NEW 208/120V-3PH PANEL DEDICATED TO NEW MECHANICAL EQUIPMENT.
- 6 NEW WALL MOUNTED PULLBOX, 12"x12"xDEPTH REQ'D.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023



ARCHITECT PBK Architects, Inc.
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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO. 04-121817 DSA FILE NO. 30-43

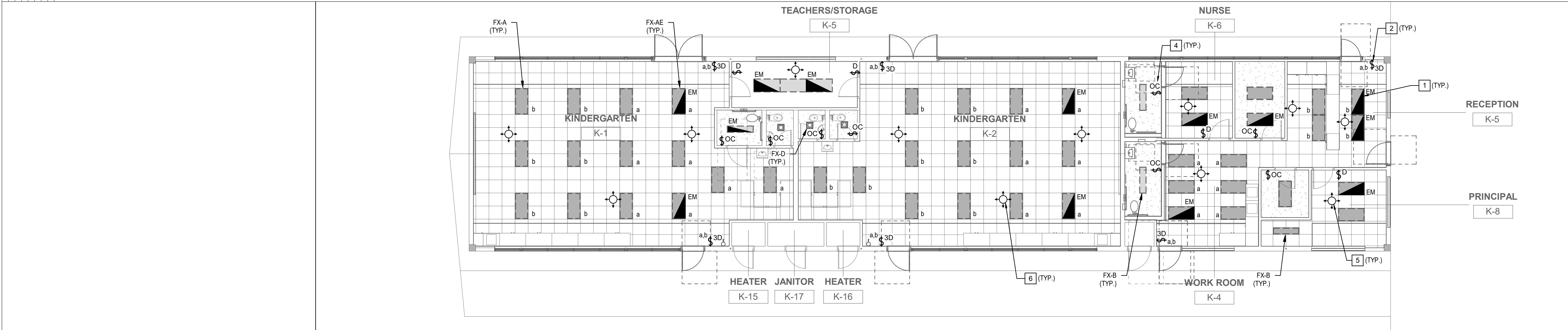
KEY PLAN
NORTH: PLAN TRUE

Consultant
REGISTERED PROFESSIONAL ENGINEER
No. E 22575
Exp. 05/31/23
Schmitt E.S.
ELECTRICIAN
STATE OF CALIFORNIA

Architect

REVISIONS		
No.	Description	Date

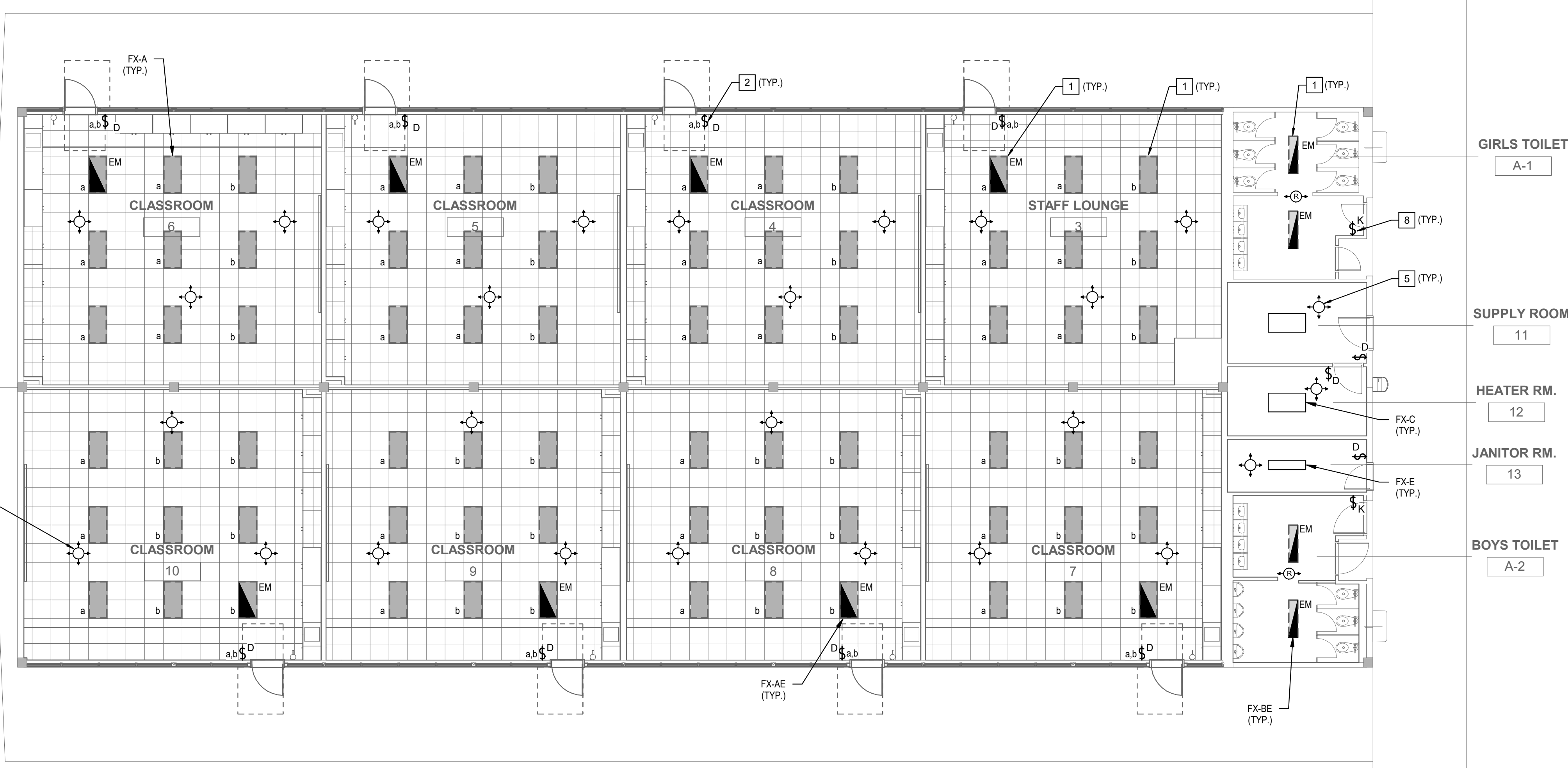
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220308
DSA SUBMITTAL
ELECTRICAL POWER PLANS - ADMIN & KINDERGARTEN, BLDG A,B & C



GENERAL NOTES

1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. EXTEND EXISTING CIRCUIT TO THE NEW LIGHT FIXTURES WITH 3/4" CONDUIT, 12 AWG WIRE MINIMUM AND ADDITIONAL LOW VOLTAGE WIRING FOR DIMMING AS REQUIRED.
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSOR FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE EMERGENCY BATTERY PACKS FOR ALL LIGHTING FIXTURES DESIGNATED TO BE ON EMERGENCY POWER AND EXIT SIGNS. PROVIDE UNSWITCHED UNSWITCHED HOT TO BATTERY SO THAT LAMPS CAN BE SWITCHED OFF AND ON WITHOUT DRAGING BATTERY. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#125, 34°C.) FROM LIGHTING PANEL TO ALL EXIT SIGNS IN THIS AREA.
5. FOR ALL EXISTING CIRCUITS AND DEVICES THAT ARE TO REMAIN, CONTRACTOR TO INCLUDE IN THEIR BID TO REMOVE AND REPLACE ALL MC CABLES ABOVE CEILING SPACES. INTERCEPT ALL CONDUITS ABOVE THE CEILING. PROVIDE NEW HOMERUNS WITH MINIMUM 3/4" EMT AND NEW WIRING THAT MATCHES THE EXISTING, BACK TO THE PANEL SOURCE.

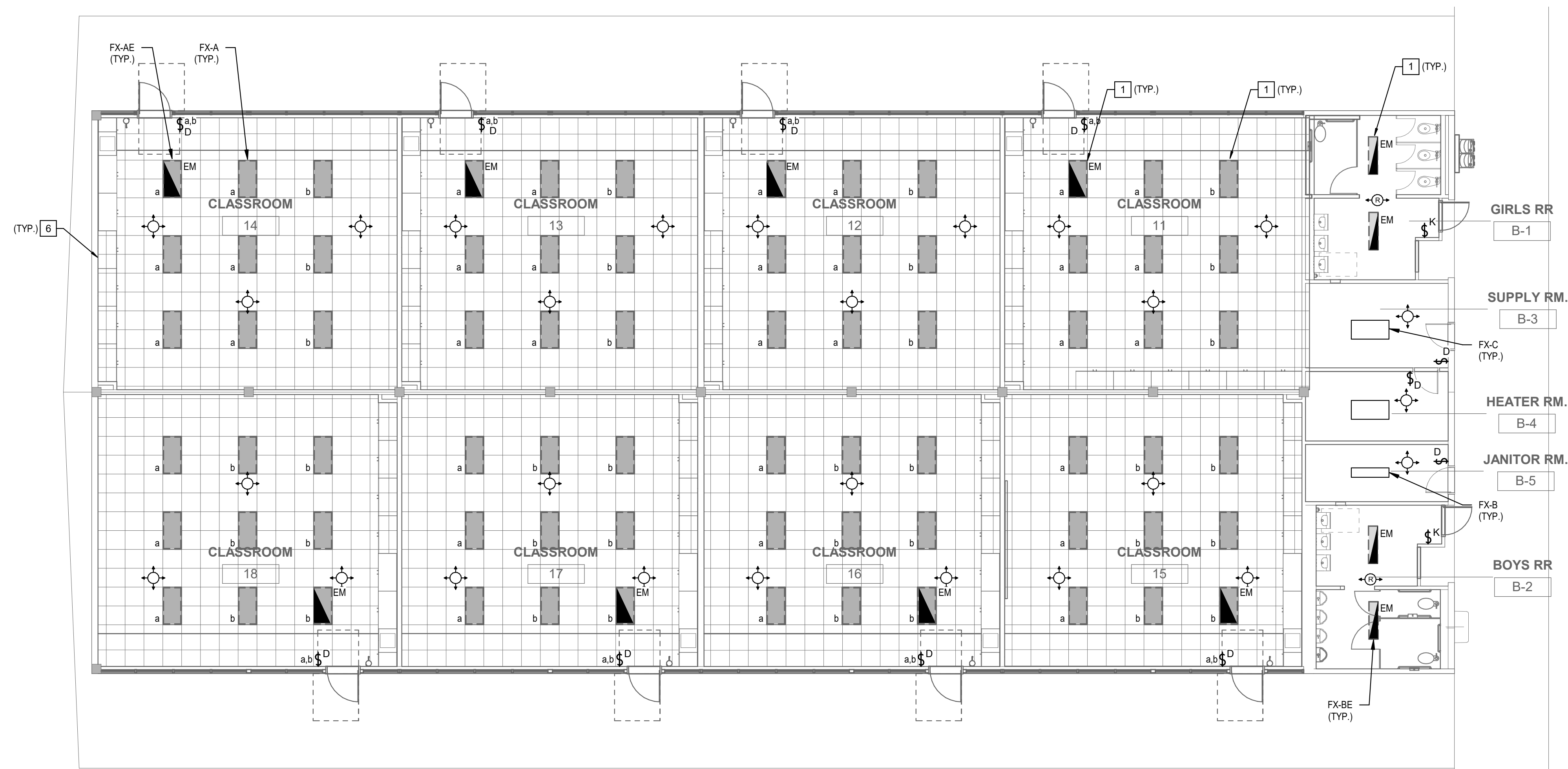
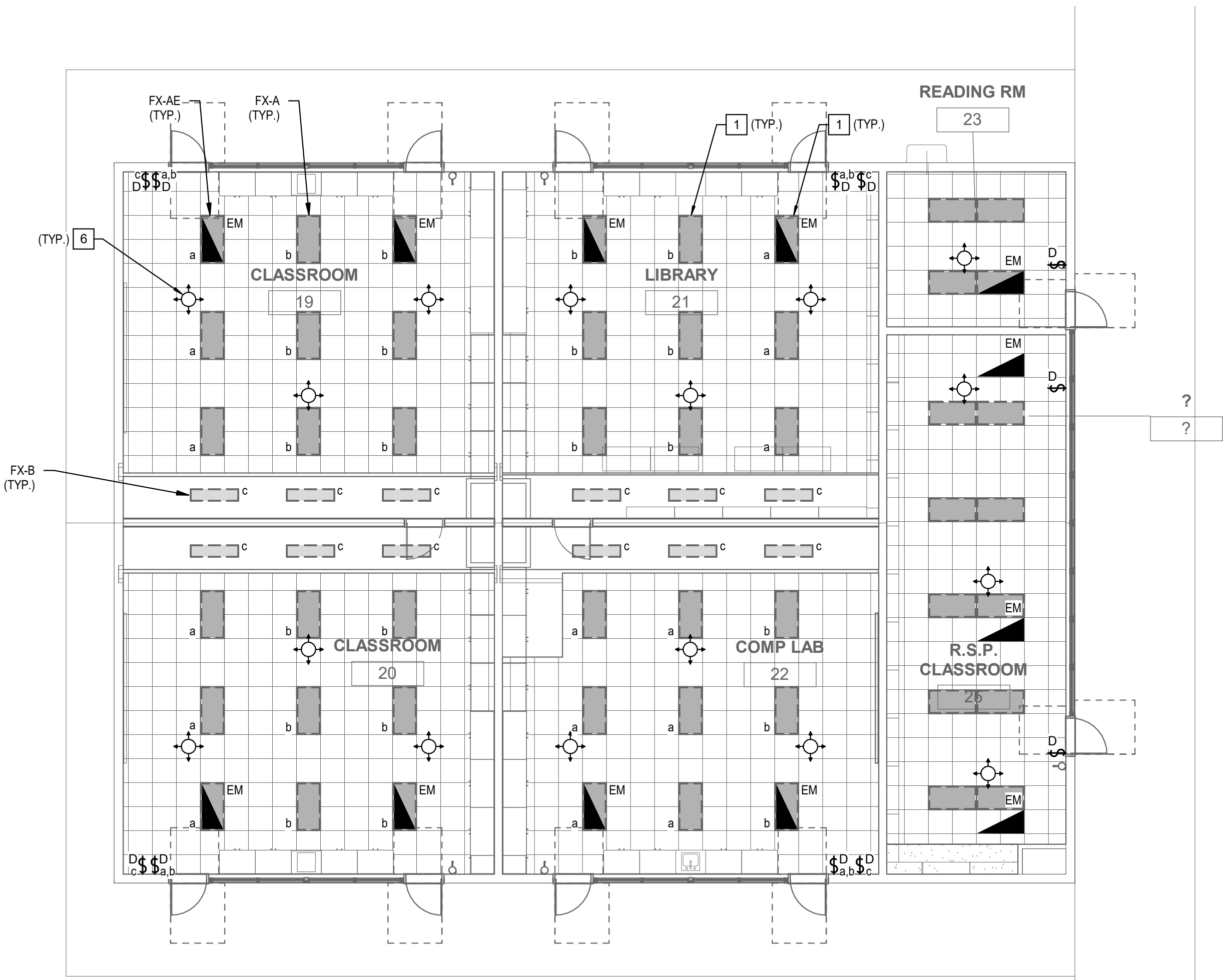
4 LIGHTING PLANS - ADMIN/KINDERGARTEN
1/8" = 1'-0"



KEY NOTES

- 1 REMOVE AND REPLACE EXISTING LIGHT FIXTURE WITH NEW LED LIGHT FIXTURE. CONTRACTOR TO EXTEND EXISTING CIRCUIT FROM PANELBOARD TO ALL THE FIXTURES IN THE ROOM. PROVIDE NEW FIXTURE WITH 3/4" - 2#12, 1#12 GND FOR LINE VOLTAGE. PLUS DIMMING WIRES AS REQUIRED. SEE LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- 2 LOW VOLTAGE WALL ON/OFF SWITCH WITH DIMMING, LUTRON MAESTRO SERIES
- 3 LOW VOLTAGE WALL ON/OFF MANUAL SWITCH, LUTRON MAESTRO SERIES
- 4 LOW VOLTAGE WALL ON/OFF SWITCH WITH DIMMING AND OCCUPANCY SENSOR, LUTRON MAESTRO SERIES
- 5 LOW VOLTAGE CEILING MOUNTED WIRELESS OCCUPANCY SENSOR, RADIO PWR SAVR SERIES
- 6 LOW VOLTAGE WALL MOUNTED WIRELESS OCCUPANCY SENSOR, RADIO PWR SAVR SERIES
- 7 LOW VOLTAGE LIGHTING CONTROLS POWERRELAY PACK, RADIO PWR SAVR SERIES
- 8 PROVIDE KEYSWITCH LIGHT SWITCH, LUTRON QSW2S-KSN3MOC-WH.

3 LIGHTING PLAN - BUILDING A
1/8" = 1'-0"



1 LIGHTING PLAN - BUILDING B
1/8" = 1'-0"

2 LIGHTING PLAN - BUILDING C
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

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PROJECT ADDRESS:
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Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. 30-43

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

KEY PLAN
NORTH: PLAN TRUE

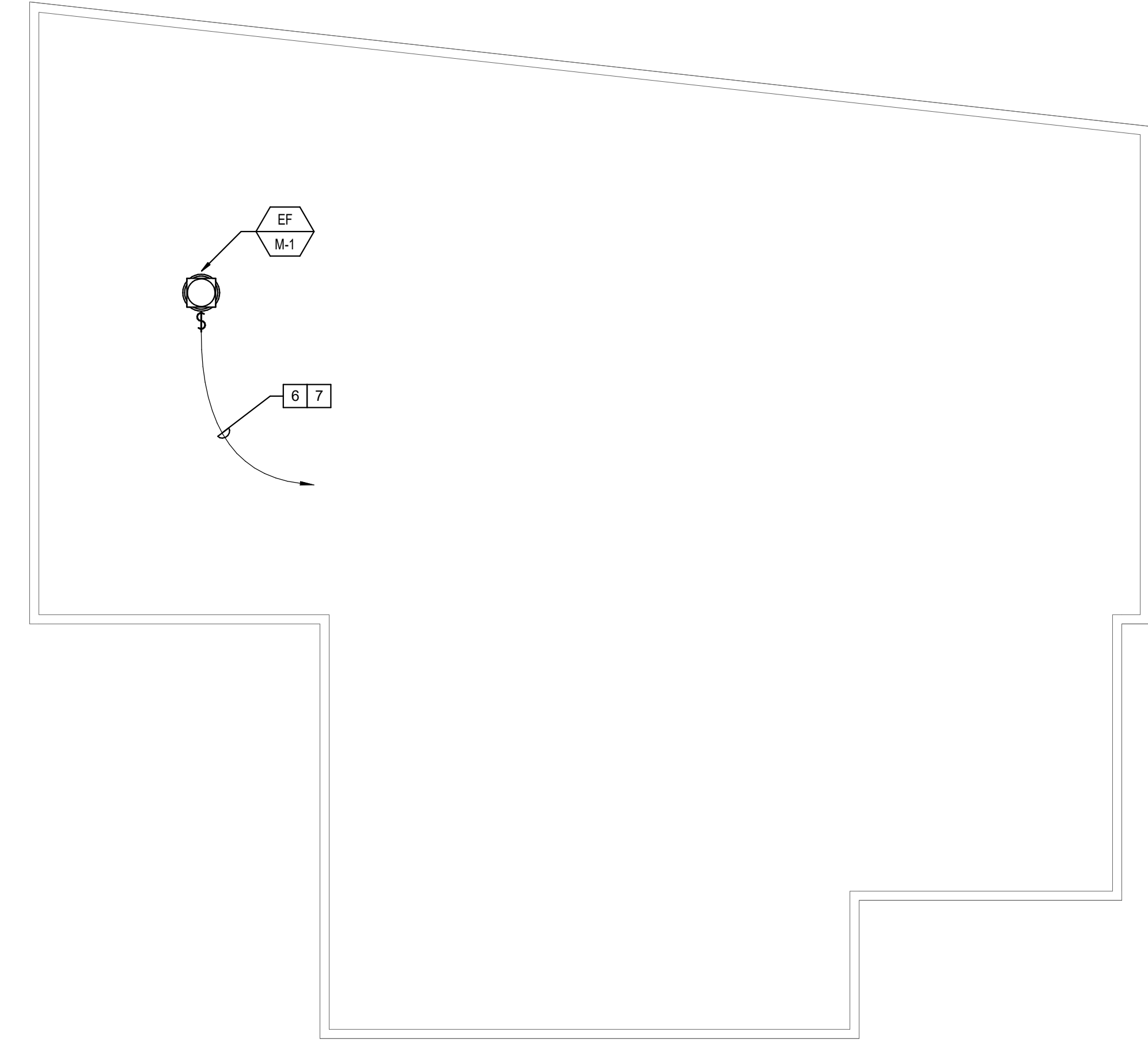
REGISTERED PROFESSIONAL ENGINEER
No. E 22578
Exp. 6/30/2023
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220308

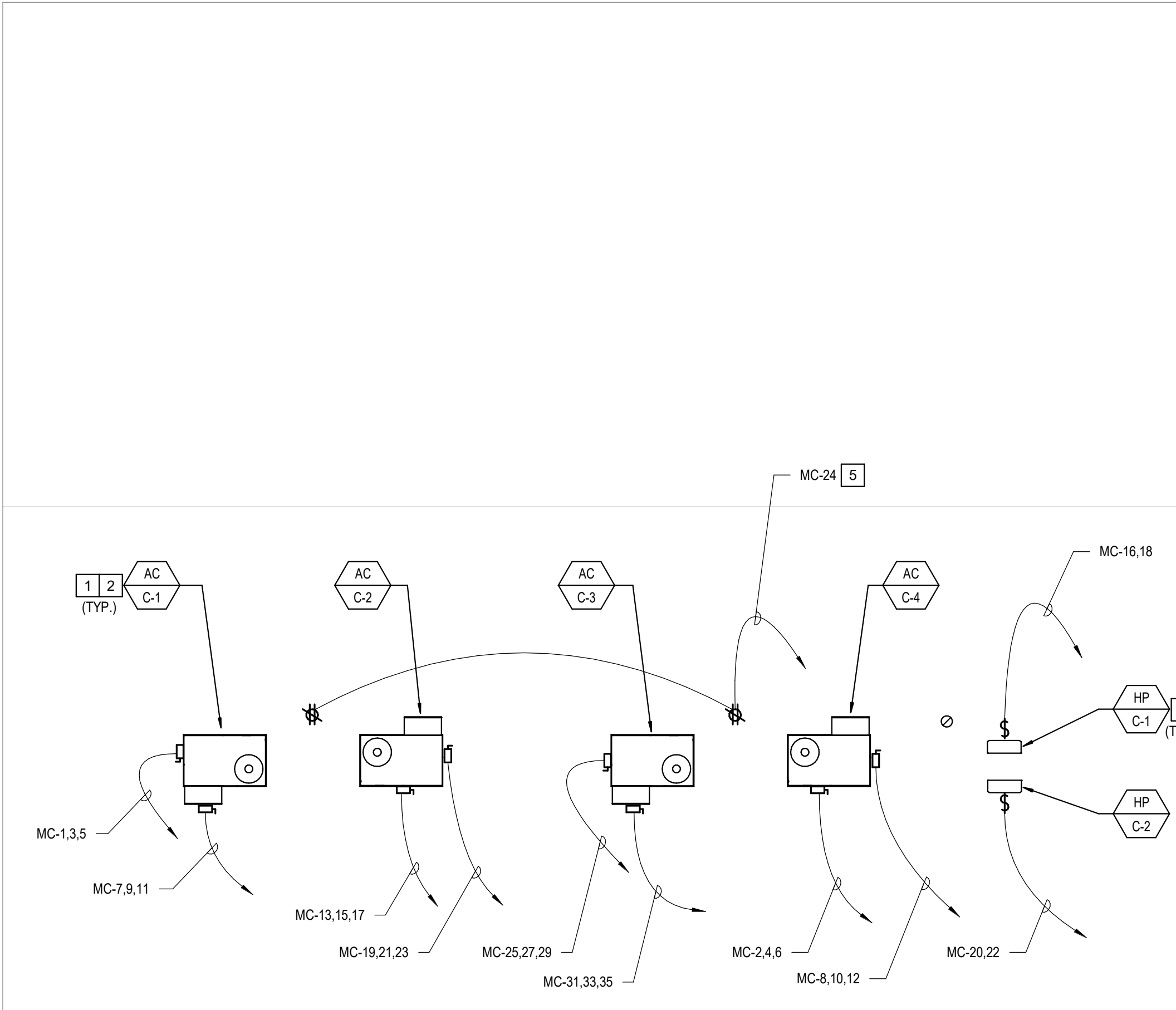
No.	Description	Date

DSA SUBMITTAL
ELECTRICAL LIGHTING PLANS - ADMIN & KINDERGARTEN, BLDG A,B & C

E2.2

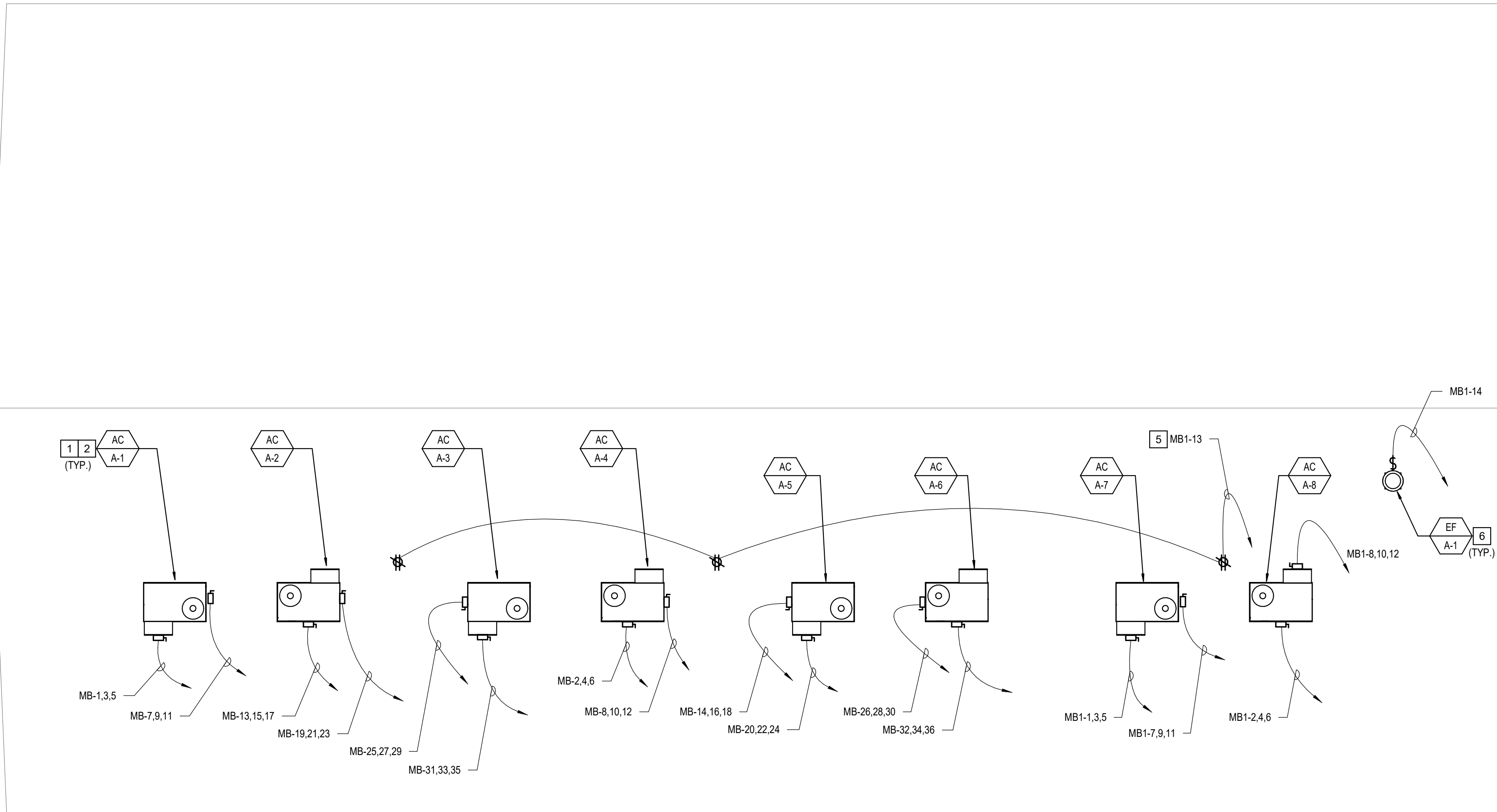


3 ROOF PLAN - MULTI-PURPOSE BUILDING
1/8" = 1'-0"

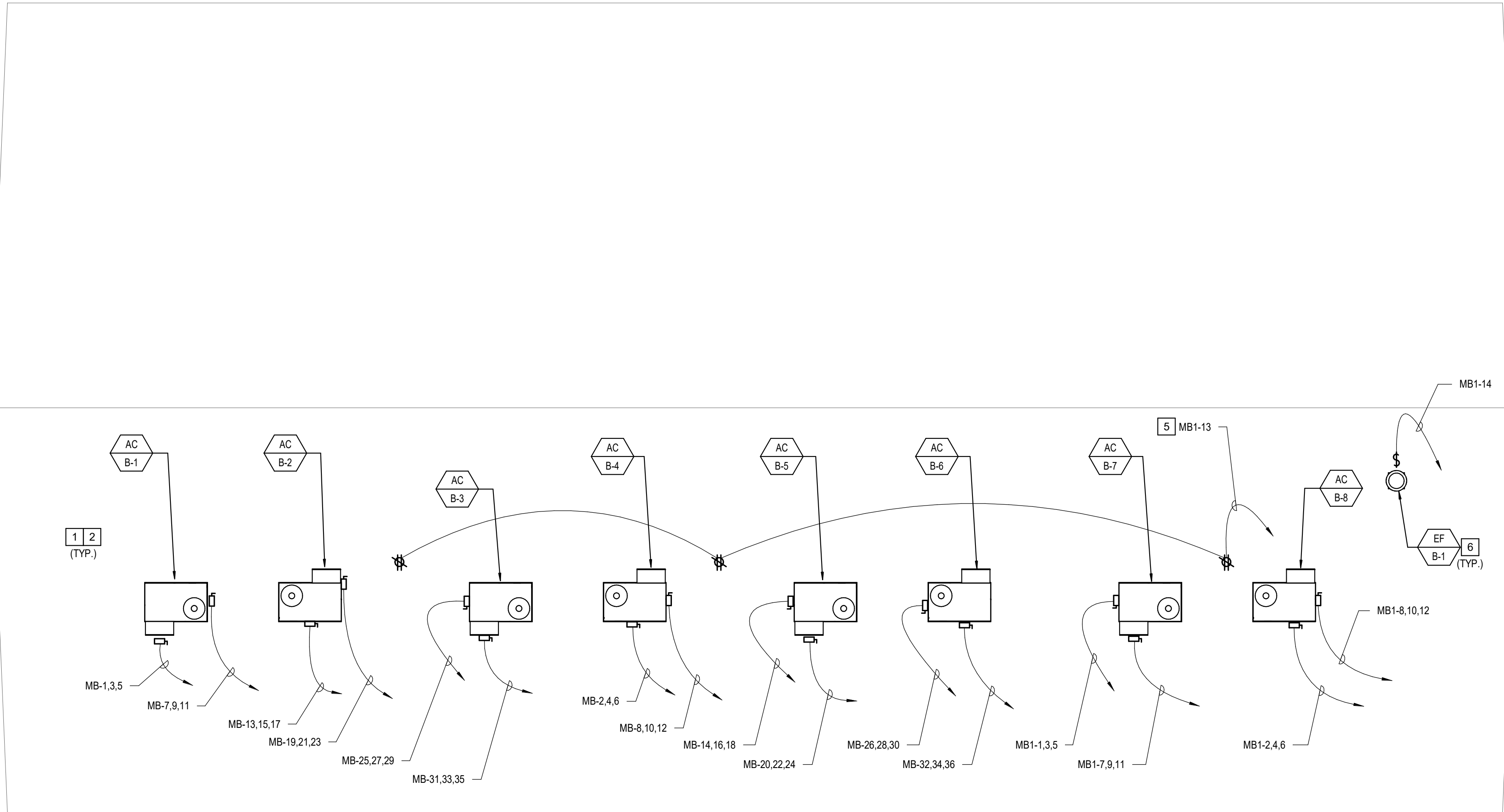


5 ROOF PLAN - BUILDING C
1/8" = 1'-0"

2 ROOF PLAN - ADMIN/KINDERGARTEN
NOT TO SCALE



4 ROOF PLAN - BUILDING A
1/8" = 1'-0"



6 ROOF PLAN - BUILDING B
1/8" = 1'-0"

GENERAL NOTES

1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. ELECTRICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS, AND A FIELD VISIT OF THE ELECTRICAL SYSTEM. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE ELECTRICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.
3. ALL ELECTRICAL EQUIPMENT/DEVICES ON THE ROOF SHALL BE WEATHER PROOF, NEMA 3R AND +F ABOVE FINISHED ROOF LEVEL AND ROOF PENETRATIONS SHALL BE FLASHED.

KEY NOTES

- 1 PROVIDE 208V/3PH POWER CONNECTION TO AC UNIT, 1" 3#10x1#10 GRD. (TYP.)
- 2 PROVIDE 208V/3PH POWER CONNECTION TO POWER EXHAUST, 3/4" 3#12x1#12 GRD. (TYP.)
- 3 PROVIDE 208V/1PH POWER CONNECTION TO HP UNITS, 3/4" 3#12 + 1#12 GRD. (TYP.)
- 4 FUSED DISCONNECT SWITCH, NEMA 3R FACTORY MOUNTED BY MECHANICAL. SEE MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
- 5 PROVIDE NEW ROOF TOP RECEPTACLE (WP) GFCI TYPE.
- 6 PROVIDE 120V/1PH POWER CONNECTION TO EXHAUST FAN, 3/4" 2#12 + 1#12 GRD. (TYP.)
- 7 PROVIDE POWER CONNECTION FROM NEAREST 120V CIRCUIT AVAILABLE. CONTRACTOR TO FIELD VERIFY CIRCUIT AVAILABILITY PRIOR TO ROUGH-IN.

IDENTIFICATION STAMP
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DATE: 08/11/2023

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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO. 04-121817 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN TRUE

Consultant
REGISTERED PROFESSIONAL ENGINEER
No. E 22579
Exp. 05/30/2023
ELECTRICAL
STATE OF CALIFORNIA

Architect

REVISIONS		
No.	Description	Date

DSA SUBMITTAL

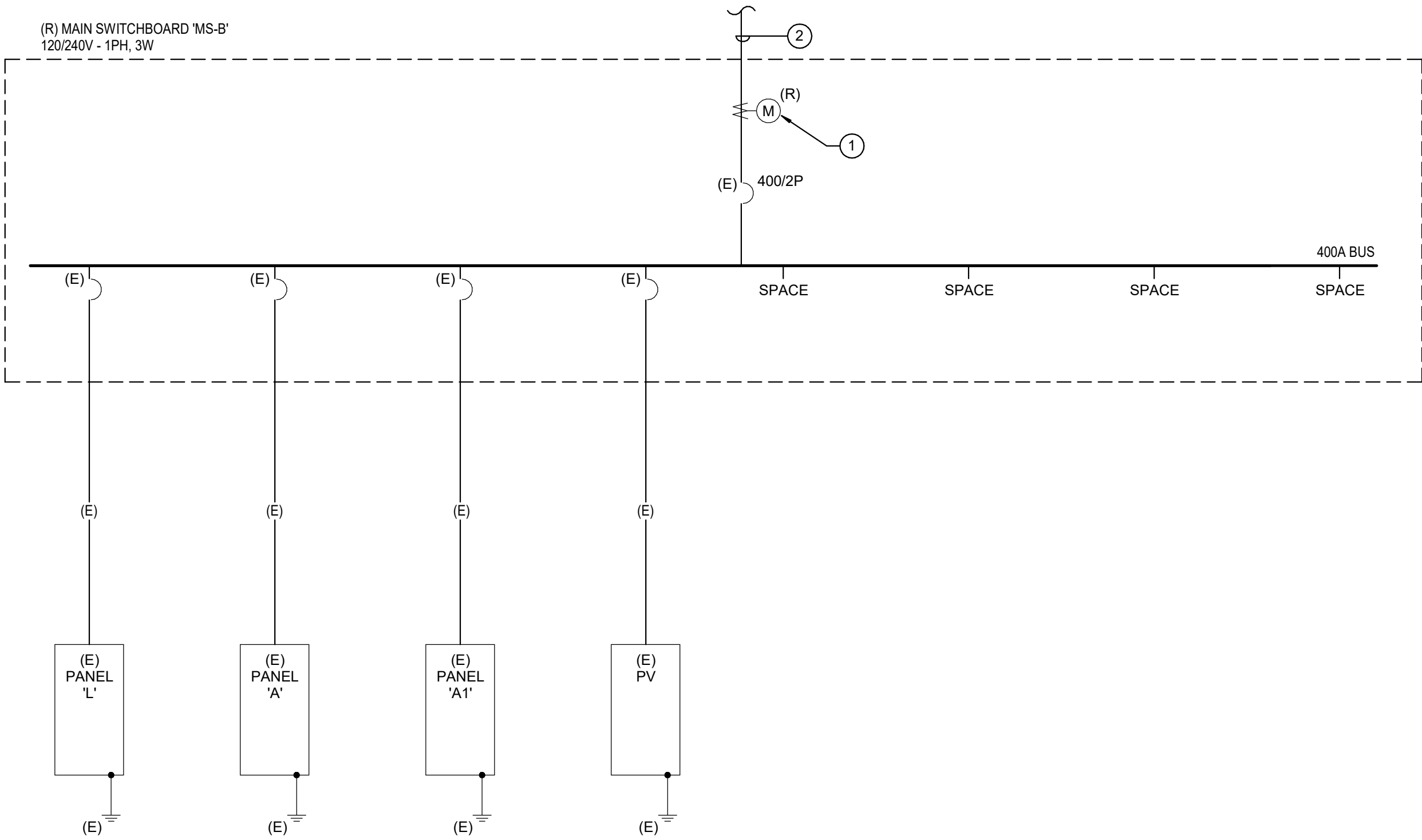
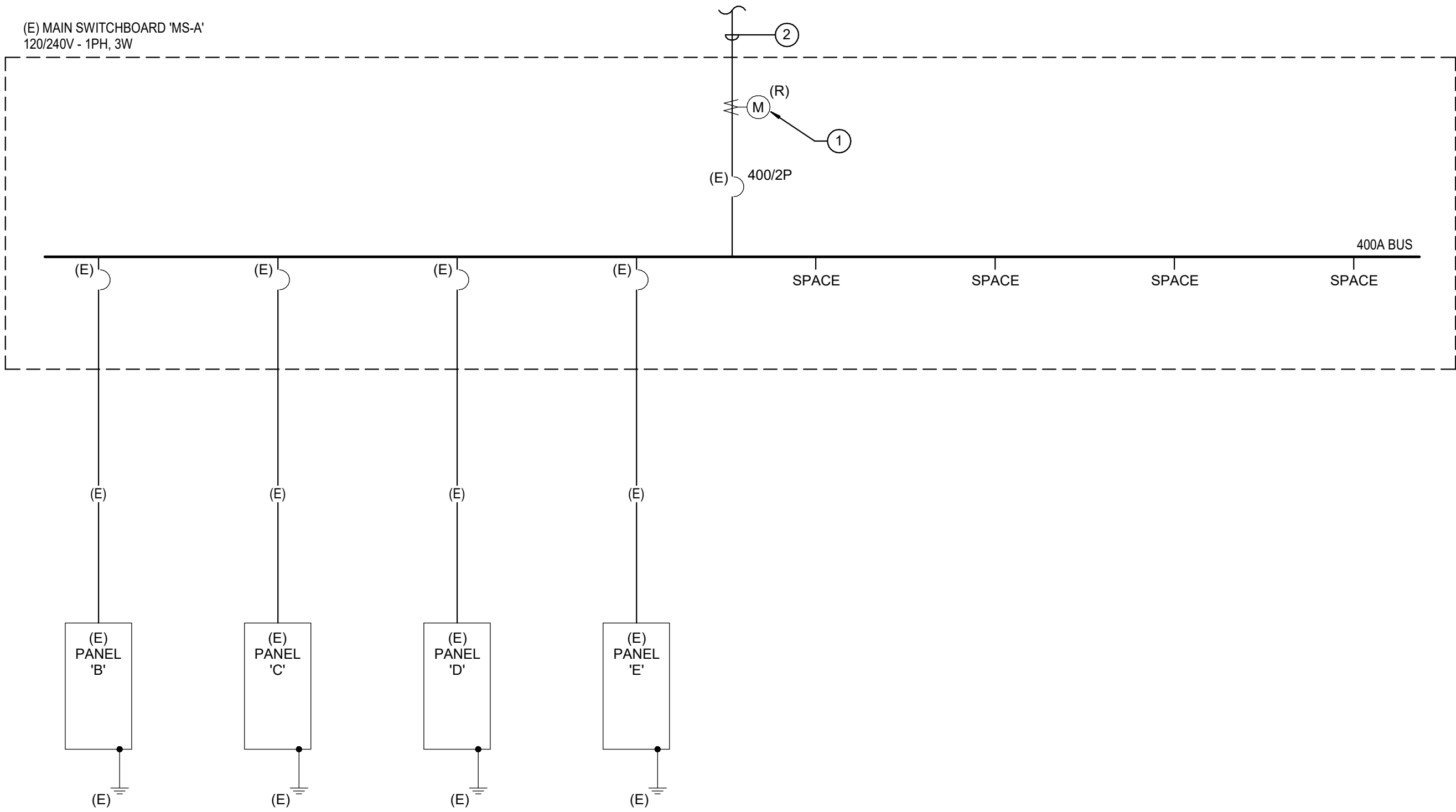
ELECTRICAL ROOF PLANS

E4.1

ELECTRICAL ONE-LINE DIAGRAM NOTES:

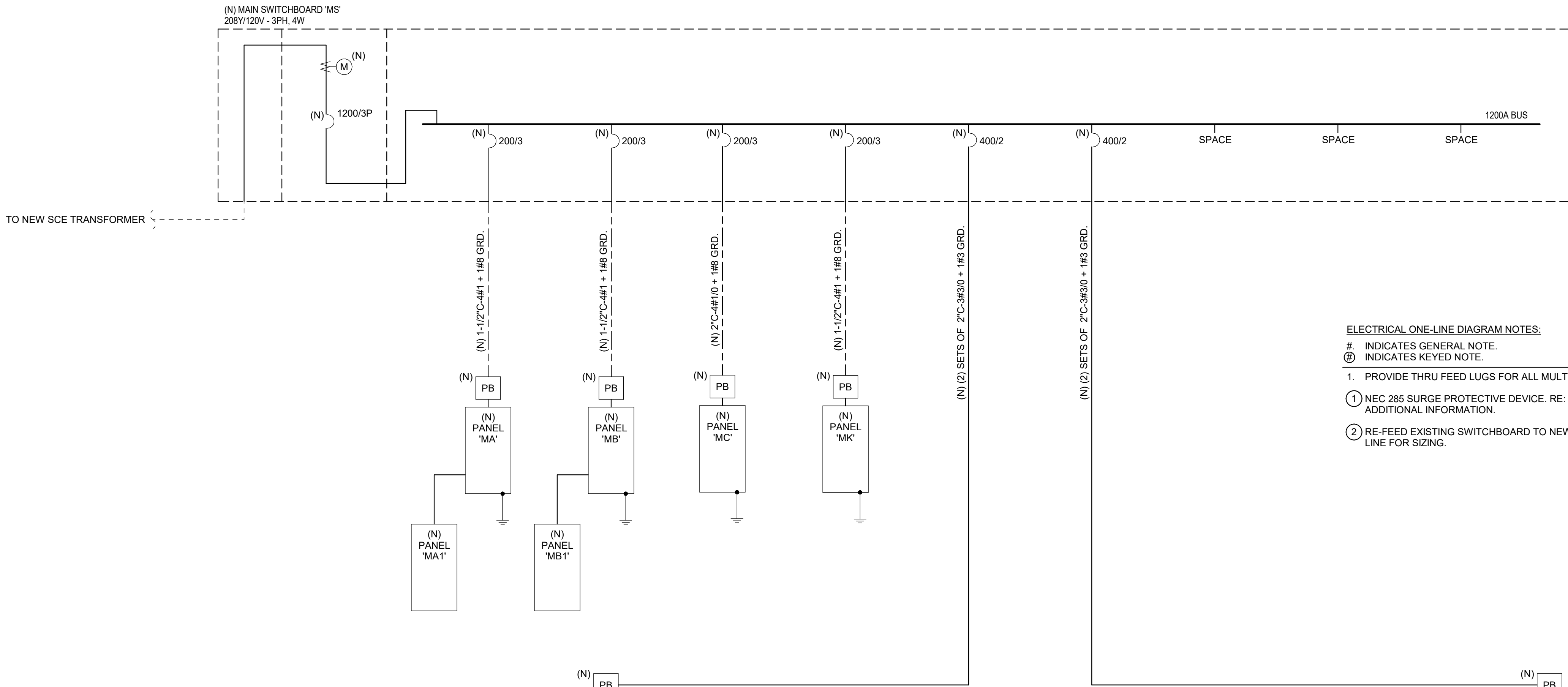
- # INDICATES GENERAL NOTE.
⑥ INDICATES KEYED NOTE.

1. REFER TO RISER DIAGRAM FOR FEEDER WIRE / CONDUIT SIZES AND FOR ALL FEEDER SIZES NOT SHOWN ON THIS SHEET.
- ① SCE SHALL REMOVE EXISTING METER. COORDINATE ALL WORK EFFORTS WITH SCE REPRESENTATIVE.
- ② EXISTING FEEDERS AND CONDUIT SHALL BE DEMOUSHED BACK TO SWITCHBOARD. SEE NEW SINGLE LINE 2/5.1 FOR NEW FEEDERS AND CONDUIT SIZING.



1 ELECTRICAL ONE-LINE DIAGRAM - EXISTING

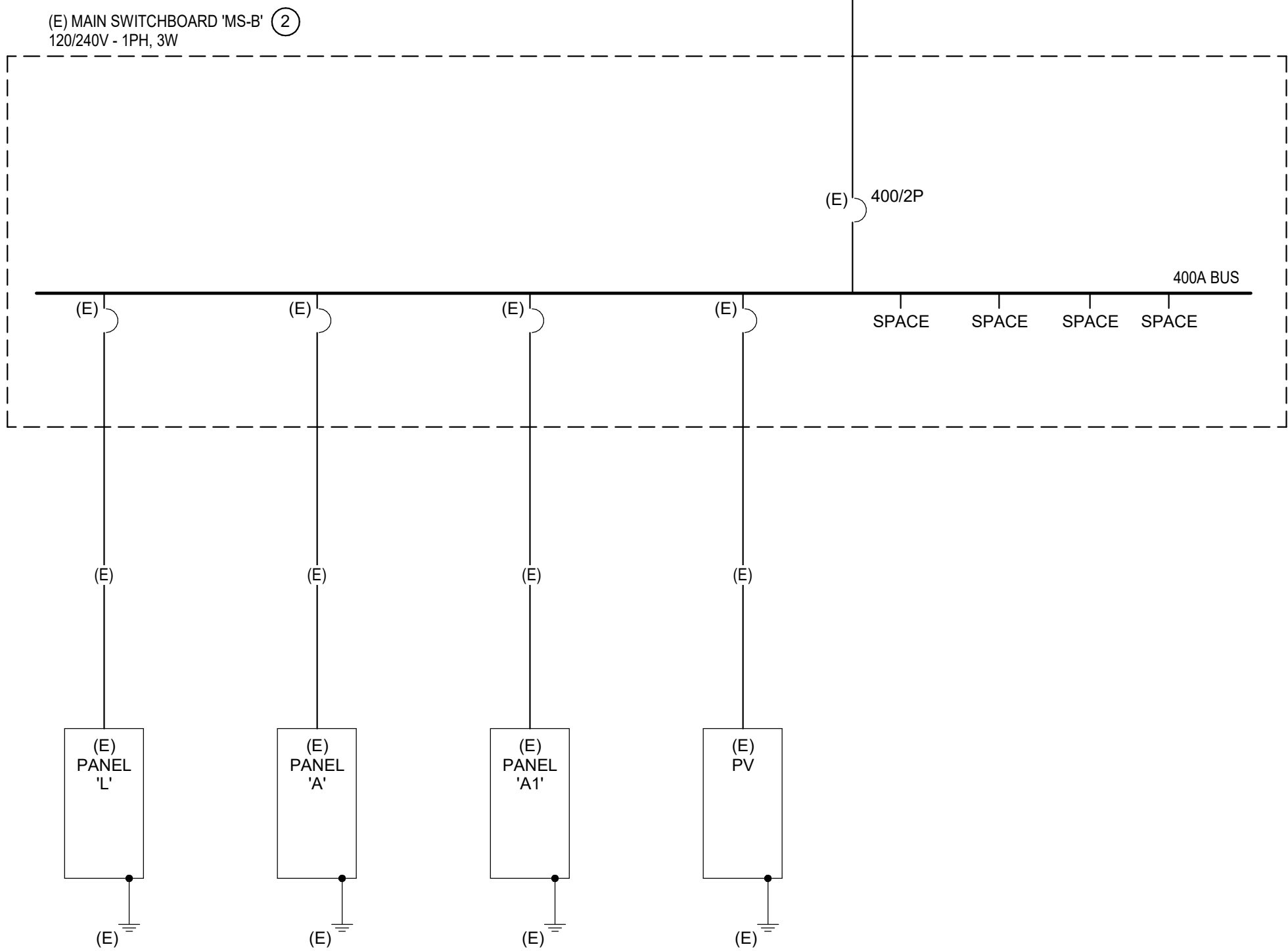
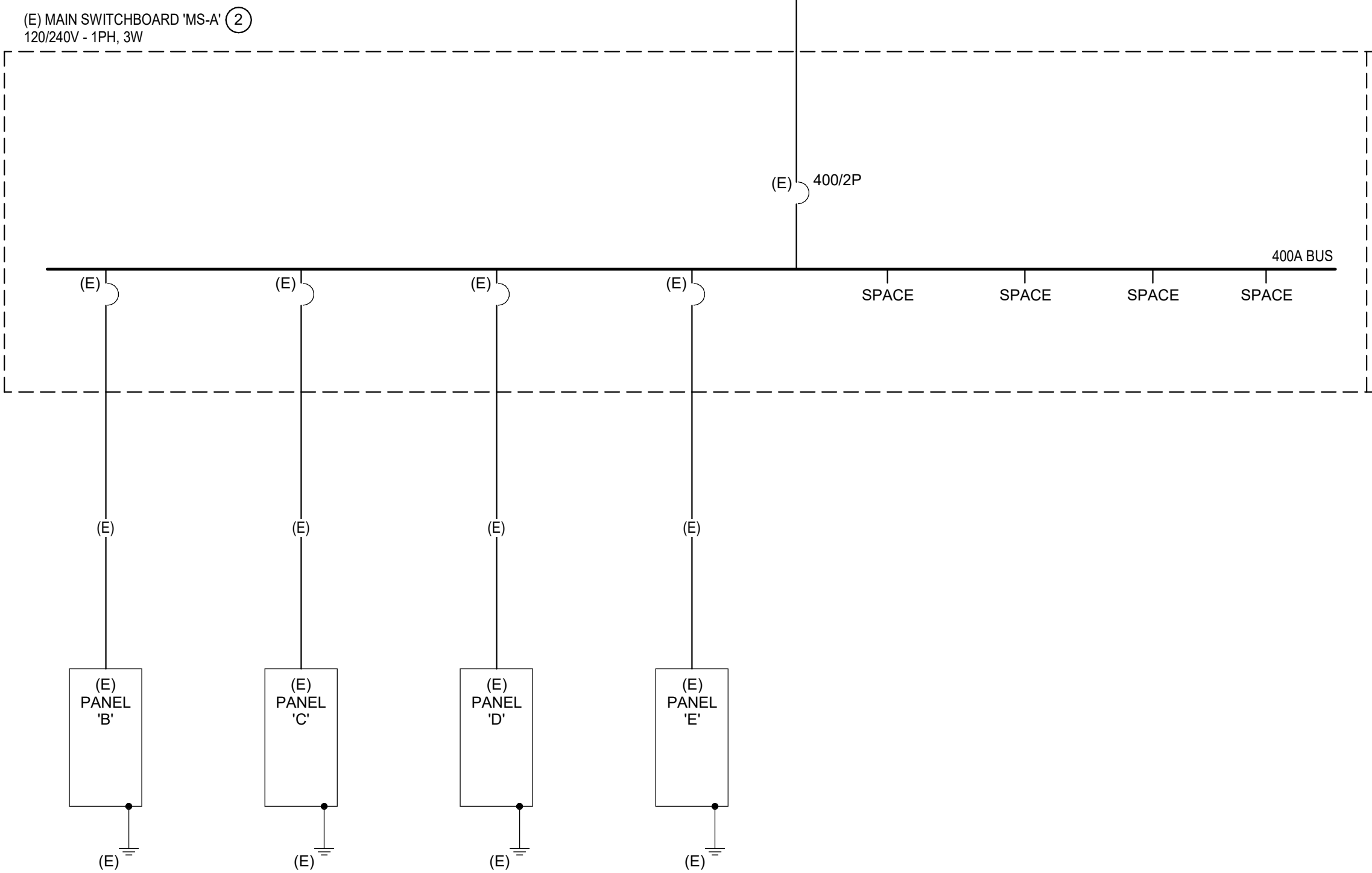
NOT TO SCALE



ELECTRICAL ONE-LINE DIAGRAM NOTES:

- # INDICATES GENERAL NOTE.
⑥ INDICATES KEYED NOTE.

1. PROVIDE THRU FEED LUGS FOR ALL MULTI-SECTION PANEL BOARDS.
- ① NEC 285 SURGE PROTECTIVE DEVICE. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ② RE-FEED EXISTING SWITCHBOARD TO NEW SWITCHBOARD 'MS'. SEE SINGLE LINE FOR SIZING.



2 ELECTRICAL ONE-LINE DIAGRAM - NEW

NOT TO SCALE

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DIV. OF THE STATE ARCHITECT
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DATE: 08/11/2023

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SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO. 04-121817 DSA FILE NO. 30-43

KEY PLAN

NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
No. E 22575
Exp. 05/31/2023
DATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE 12-29-2022 PROJECT NUMBER 220308

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SINGLE LINE DIAGRAM

E5.1

Mounting SURFACE

Main Type MLO

Neutral 100%

Job-Schmitt ES - Modernization

Job No 22030BAR

A/C Rating 14000

Voltage:

Main Size:

20BY120V-3PH 4W

125 AMPS

Ground Equipment Ground

Lugs SINGLE

PANEL MA1

Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/Ph	Wire	Cr.	No.	Ph	Cr.	No.	Wire	Amp/Ph	Description	Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1664					0.00	AC A-7	30/3	10	1	A	2	10	30/3	AC J&S		1664								0.00
		1664					0.00	---	---	10	3	B	4	10	---	---		1664								0.00
		270					0.00	---	---	10	5	C	6	10	---	---		270								0.00
		270					0.00	AC A-7 PWR EXH	15/3	12	7	A	9	12	15/3	NC J&S PWR EXH		270								0.00
		270					0.00	---	---	12	9	B	10	12	---	---		270								0.00
		270					0.00	---	---	12	11	C	12	12	---	---		270								0.00
360							0.00	PROGTOP CONV. REC.	20/1	12	13	A	14	12	15/1	E/F 1-A-1		330								0.00
							1.00	SPARE		15	B	16		20/1	SPARE											1.00
							1.00	SPARE		20/1	17	C	18		20/1	SPARE										1.00
							1.00	SPARE		20/1	19	A	20		20/1	SPARE										1.00
							0.00	SPACE		21	B	22				SPACE										0.00
							0.00	SPACE		23	C	24				SPACE										0.00
0	360	5803	0	0	0	0	3.00	TOTALS								TOTALS	0	0	6333	0	0	0	0	0	0	3.00

LOAD SUMMARY

Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Phase	Load
0.0	0.4	12.1	0.0	0.0	0.0	0.0	0.0	Connected KVA	Ph	KVA
1.25	--	1.09	1.00	1.00	0.00	0.00	0.65	"Design Factors"	A	4.8
									B	1.9
0.0	0.4	12.1	0.0	0.0	0.0	0.0	0.0	Design KVA	C	3.9

Panel Remarks:

NEW PANEL

PROVIDE THRU FEED LUGS FROM PANEL 'MA'

☐ Input div. factor per descriptions as required for calculations.

☒ **100% of 1st 10 KVA, 50% of remaining.

Con

Con

Des.

Des.

KVA

Amps

KVA

Amps

TOTAL

18.5

81.3

15.5

43.0

Date:

12/15/2022

By:

N OROPEZA

PANEL MA1

[illegible][illegible]

MountingSURFACE

Main TypeMCB (200A)

Neutral100%

Job:Schmitt ES - Modernization

Job No.220308AR

AIG Rating22000

Voltage:200Y/120V 3PH 4W

Main Size:225 AMPS

GroundingEquipment Ground

LegsSINGLE

PANEL: MK

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amps/P	Wire	Cr. No.	Ph.	Size	Wire	Amps/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2219		0.00						AC K-1'	4003	8	1	A	12	201	SF 'K-1'									1176
2219		0.00						---	--	8	3	B	4	12	1502	HP 'K1'								884
444		0.00						---	--	8	5	C	6	12	---	884								884
444		0.00						AC K-1'- PWR EXH	1502	12	7	A	6	12	1502	HP 'K2'								884
444		0.00						---	--	12	9	B	10	12	---	884								884
444		0.00						---	--	12	11	C	12	12	1502	HP 'K3'								1508
2219		0.00						AC K-2'	4003	8	13	A	14	12	---	1508								884
2219		0.00						---	--	8	15	B	16	12	1502	HP 'K4'								884
2219		0.00						---	--	8	17	C	18	12	---	884								884
444		0.00						AC K-2'- PWR EXH	1502	12	19	A	20	12	1501	EF 'K-1'								530
444		0.00						---	--	12	21	B	22	12	201	ROOF/TP CONV. REC.		360						
444		0.00						---	--	12	23	C	24											0.00
		1.00						SPARE	201		25	A	26		201	SPARE								1.00
		1.00						SPARE	201		27	B	28		201	SPARE								1.00
		1.00						SPARE	201		29	C	30		201	SPARE								1.00
		1.00						SPARE	201		31	A	32		201	SPARE								1.00
		1.00						SPARE	201		33	B	34		201	SPARE								1.00
		0.00						SPACE			35	C	36			SPACE								0.00
		0.00						SPACE			37	A	38			SPACE								0.00
		0.00						SPACE			39	B	40			SPACE								0.00
		0.00						SPACE			41	C	42			SPACE								0.00
0	0	15974	0	0	0	0	5.00	TOTALS								TOTALS	0	360	10026	0	0	0	0	5.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.4	26.0	0.0	0.0	0.0	0.0	10.0	Connected KVA
1.25	1.1	1.00	1.00	1.00	1.00	0.65	0.50	'Design Factors
0.0	0.4	26.0	0.0	0.0	0.0	0.0	5.0	Design KVA

Phase Load

Ph	KVA
B	8.3
C	8.6

Panel Remarks:

NEW PANEL
FED FROM MAIN SWITCHBOARD 'MS'

*Input div. factor per descriptions are provided for calculations.
*100% of 1st 10 KVA, 90% of remaining.

Con. KVA

Con. Amps

Des. KVA

Des. Amps

0.0	36.4	100.9	31.4	87.0
-----	------	-------	------	------

Date:

12/15/2022

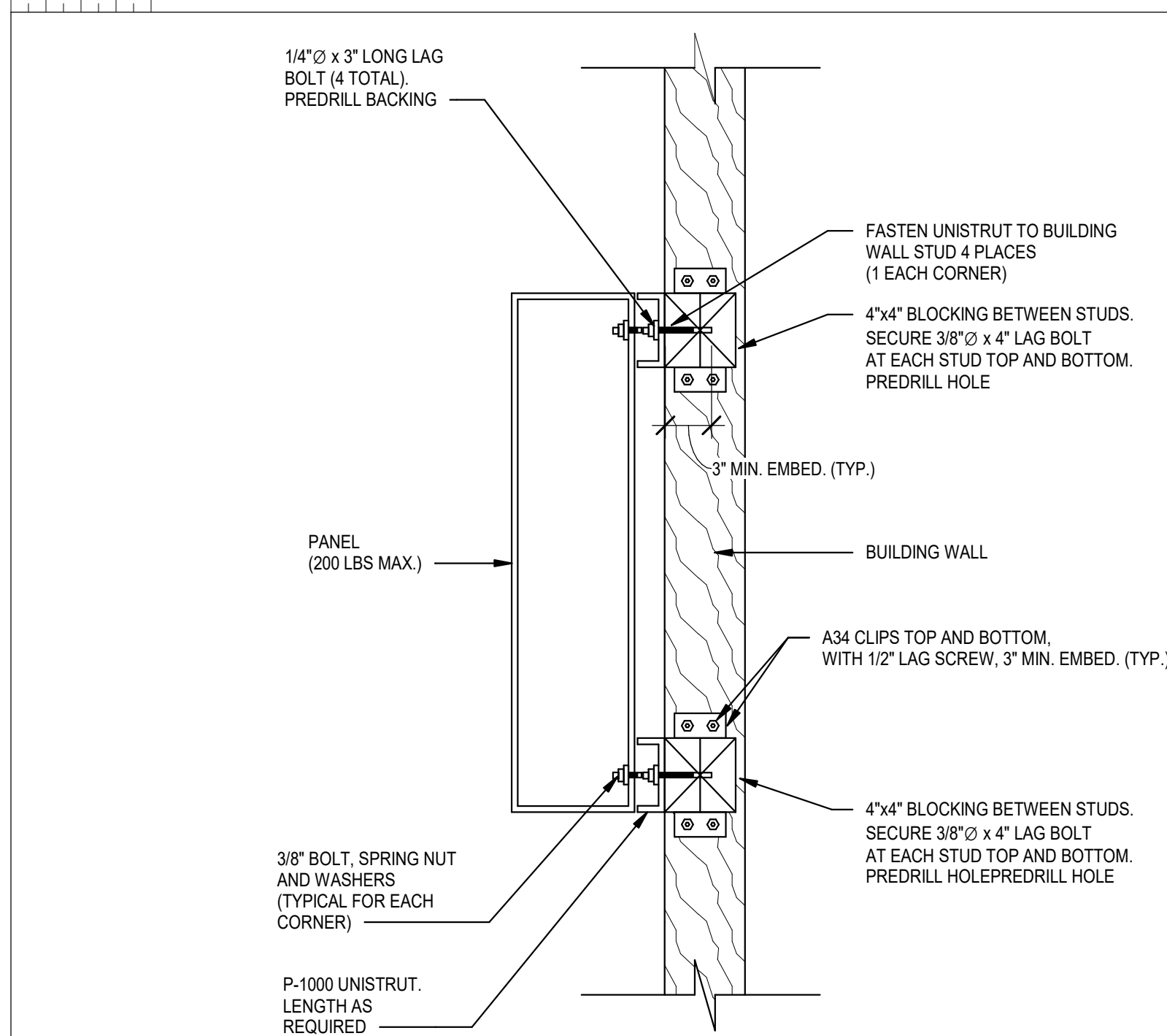
By:

N OROPEZA

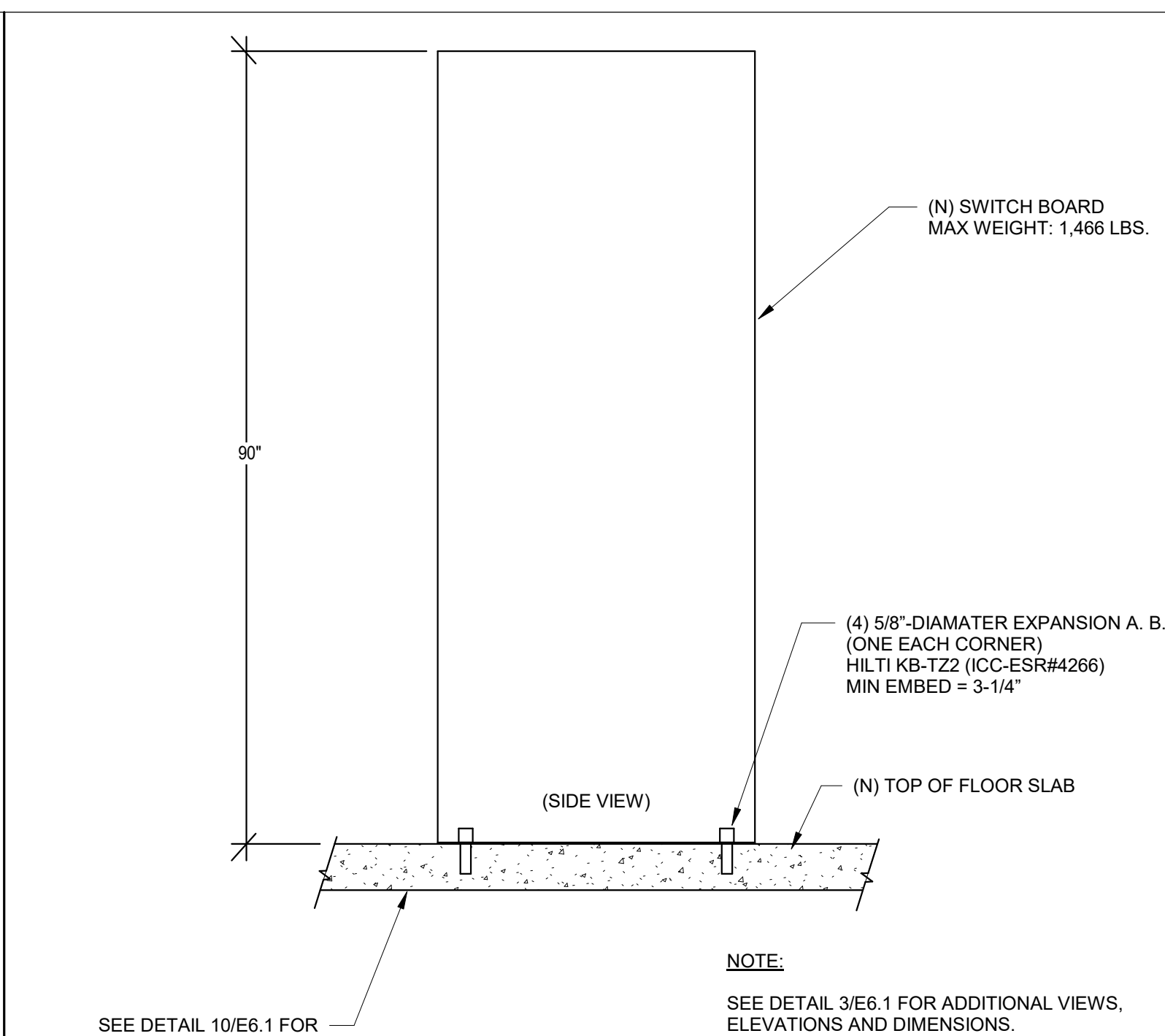
PANEL: MK

TYPE	DESCRIPTION	VOLTAGE	MOUNTING	MANUFACTURER & NO.	REMARKS
FX-A	2X4 TROFFER	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MINI MVOLT	
FX-AE	2X4 TROFFER - EMERG.	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MINI MVOLT E10WCP	PROVIDE 90 MIN. EMERGENCY BATTERY BACKUP 'E10WCP'
FX-B	1X4 TROFFER	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MINI MVOLT	
FX-BE	1X4 TROFFER - EMERG.	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MINI MVOLT E10WCP	PROVIDE 90 MIN. EMERGENCY BATTERY BACKUP 'E10WCP'
FX-C	2X4 TROFFER	MVOLT	SURFACE	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MINI MVOLT	PROVIDE SURFACE MOUNT KIT 'SMKSH'.
FX-D	5" DOWNLIGHT	MVOLT	SURFACE	JUNO LIGHTING J5F SIN 071M 35K 90CRI 120 FRPC WH E10WLCPL	PROVIDE EMERGENCY BATTERY BACKUP 'E10WLCPL'
FX-E	1X4 TROFFER	MVOLT	SURFACE	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MINI MVOLT	PROVIDE SURFACE MOUNT KIT 'SMKSH'.
FX-EE	1X4 TROFFER	MVOLT	SURFACE	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MINI MVOLT E10WCP	PROVIDE 90 MIN. EMERGENCY BATTERY BACKUP 'E10WCP'
FX-EX	EMERGENCY EXIT	MVOLT	SURFACE	LITHONIA LIGHTING LE S 1 R EL N SD - WITH MOUNTING KIT 'ELA WG1'	COORDINATE WITH MANUFACTURER AND ARCHITECT PRIOR TO PROCUREMENT.

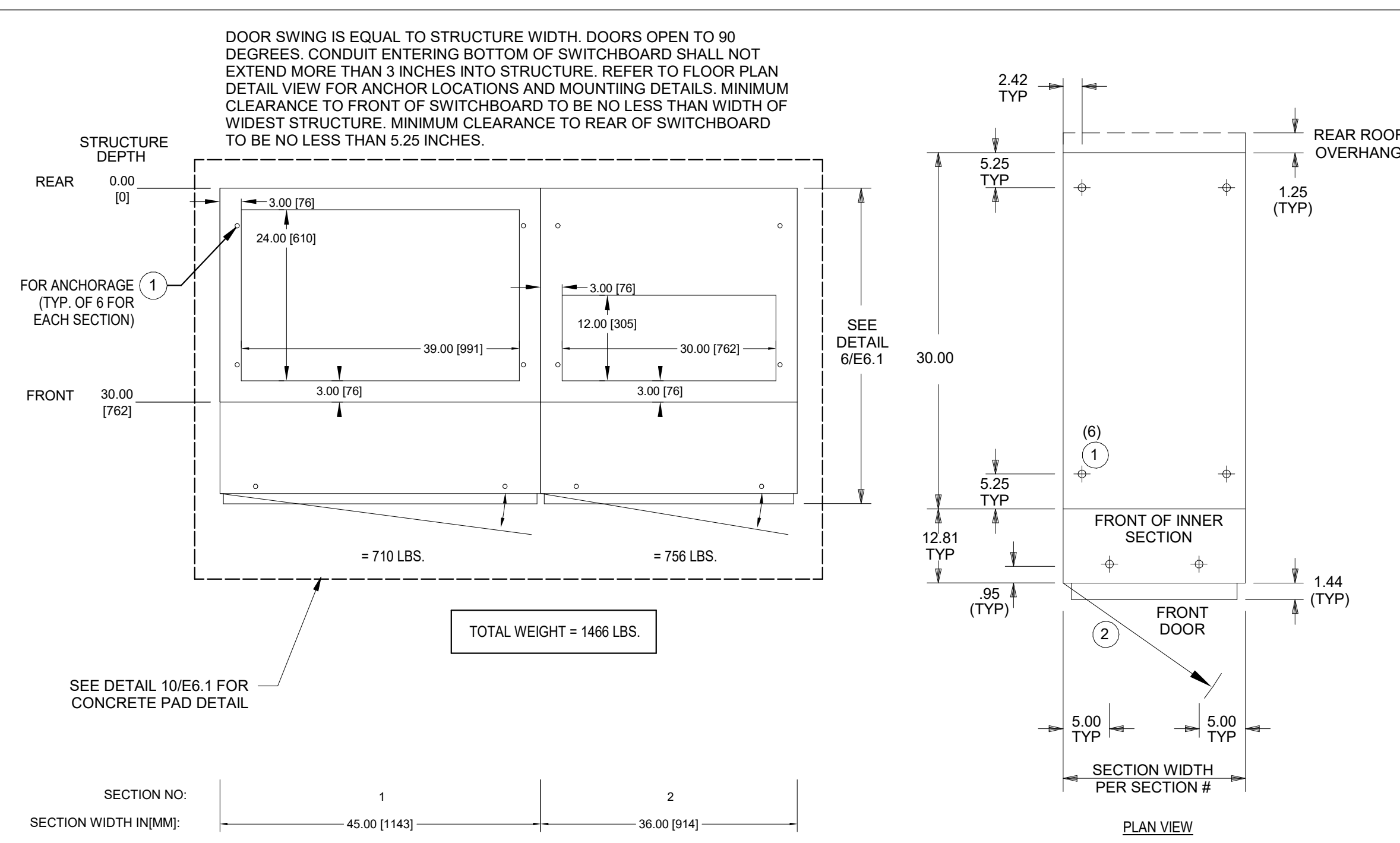
E5.2



8	SURFACE MOUNTED PANEL AT WOOD FRAMING DETAIL NOT TO SCALE
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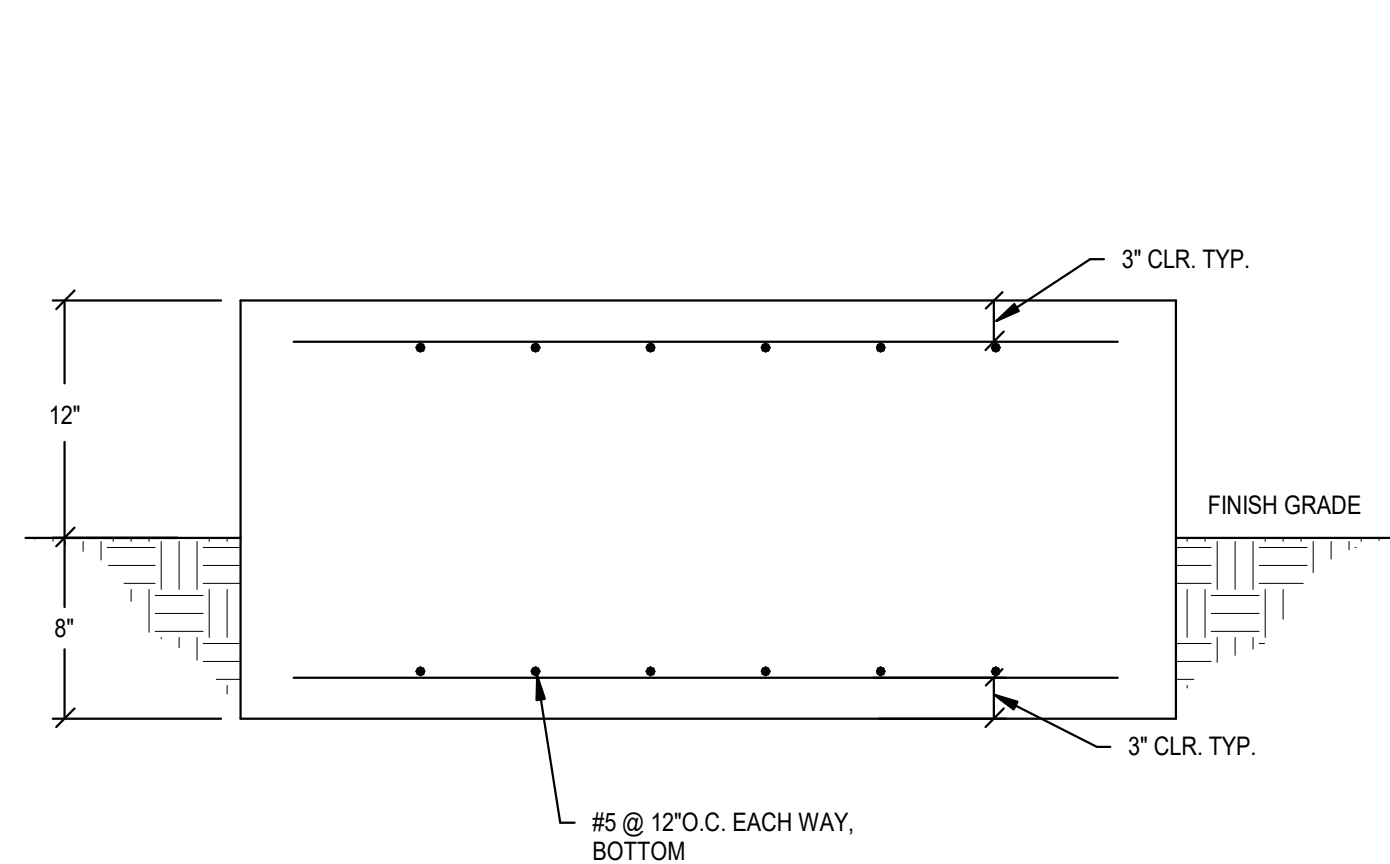


6	SWITCHBOARD ANCHORAGE DETAIL NOT TO SCALE
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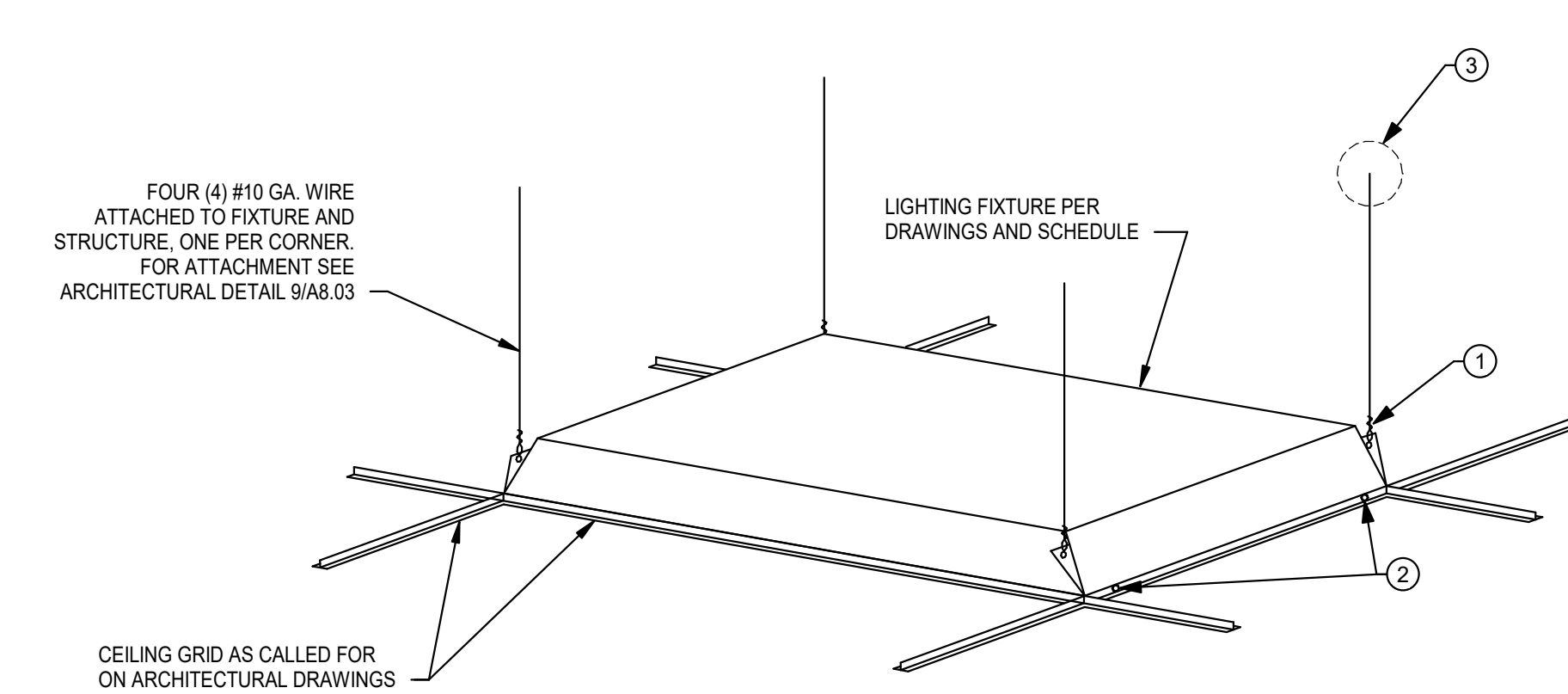
3 SWITCHBOARD DETAIL

NOT TO SCALE



10	CONCRETE HOUSE KEEPING PAD DETAIL NOT TO SCALE
-----------	---

- KEY NOTES:
- ① ATTACH WIRE TO FIXTURE (3 TIGHT TURNS MIN. IN 1½" MAX.)
 - ② MIN #8 "TEK" SCREW GRID TO FIXTURE @ EACH CORNER.
 - ③ ATTACH HANGER WIRES TO STRUCTURE AS PER STRUCTURAL DETAIL

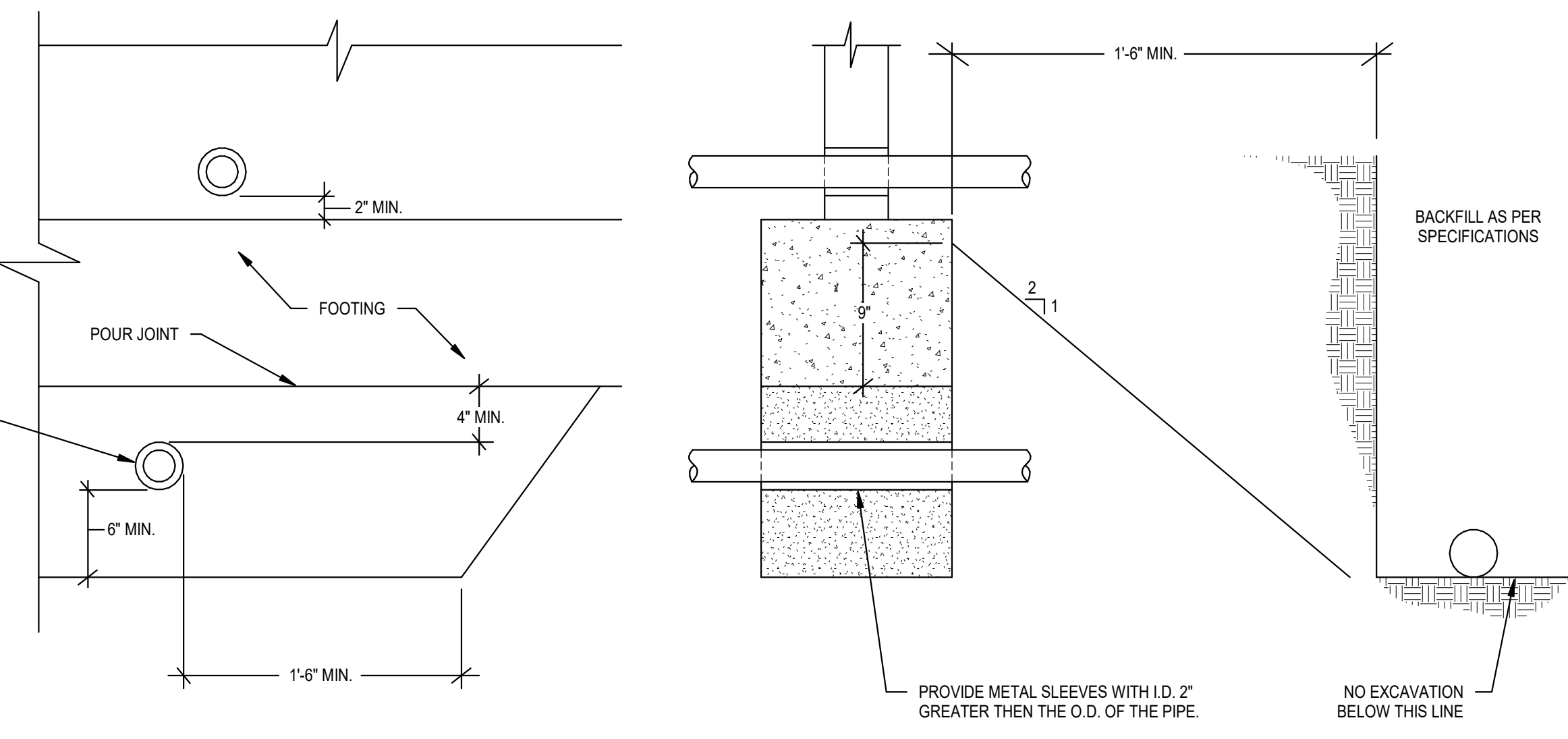


9	RECESSED FIXTURE IN LAY-IN GRID DETAIL NOT TO SCALE
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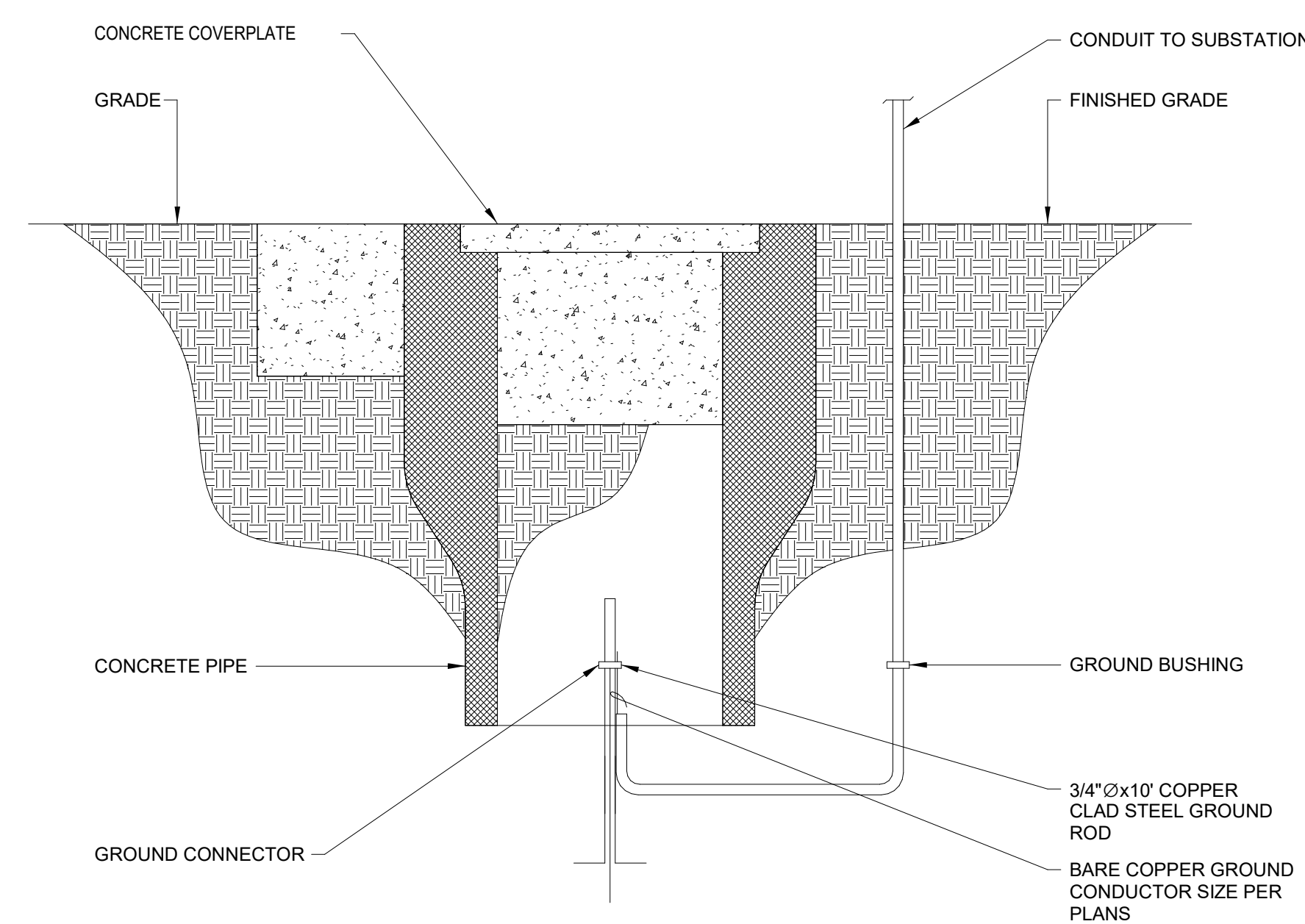
- NOTE:**
1. NO PIPE SHALL PASS THROUGH FOOTING PAD
 2. LOCATE PIPE TRENCH SO THAT FOOTINGS WILL NOT BE UNDERMINED.

REFERENCE:
TITLE 24, 1809A.14

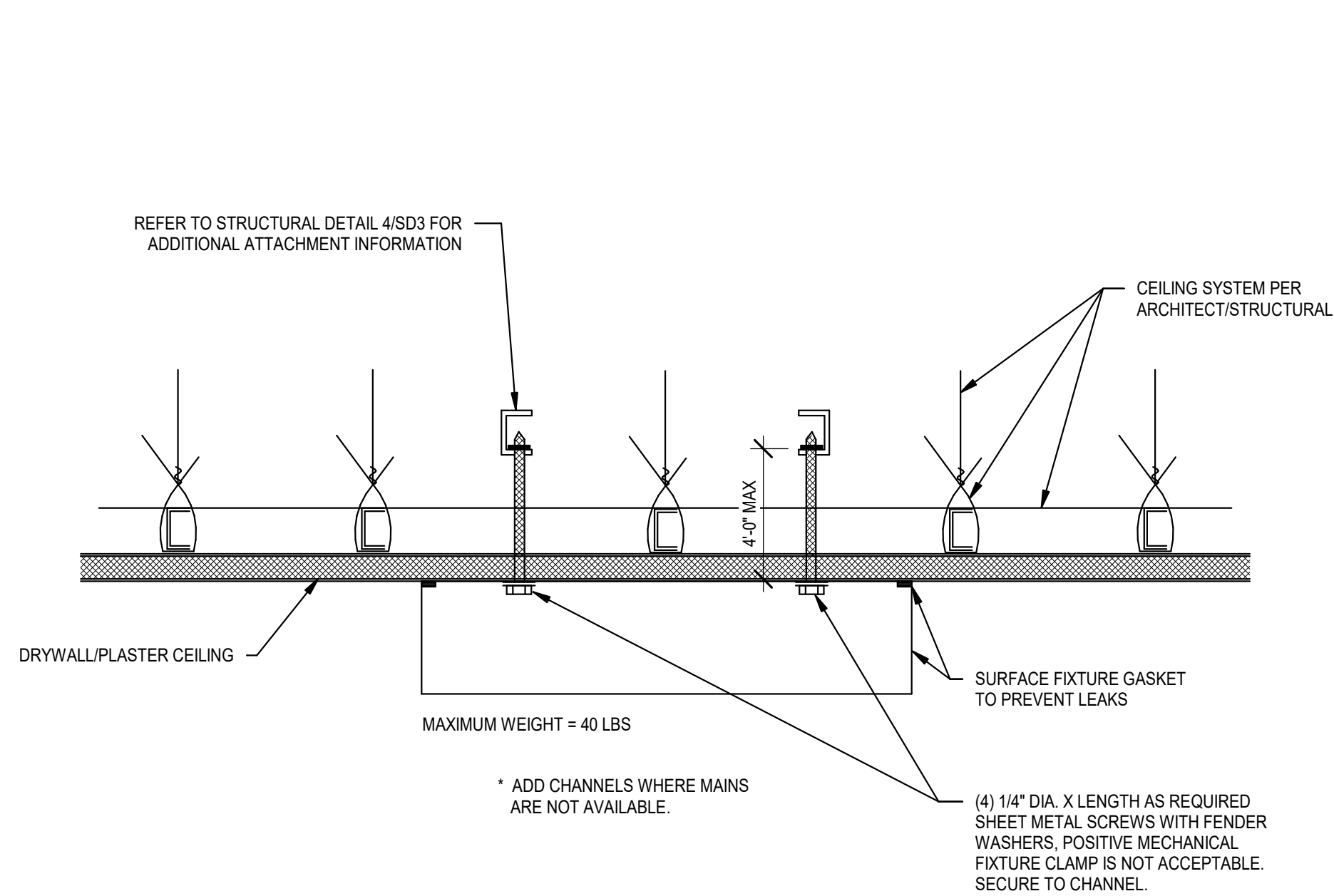
PLACE CONCRETE FILL AROUND SLEEVES BEFORE
POURING FOOTING PADS. FILL SHALL BE THE SAME
WIDTH AS FOOTING AND PULL PLACE CONCRETE FILL



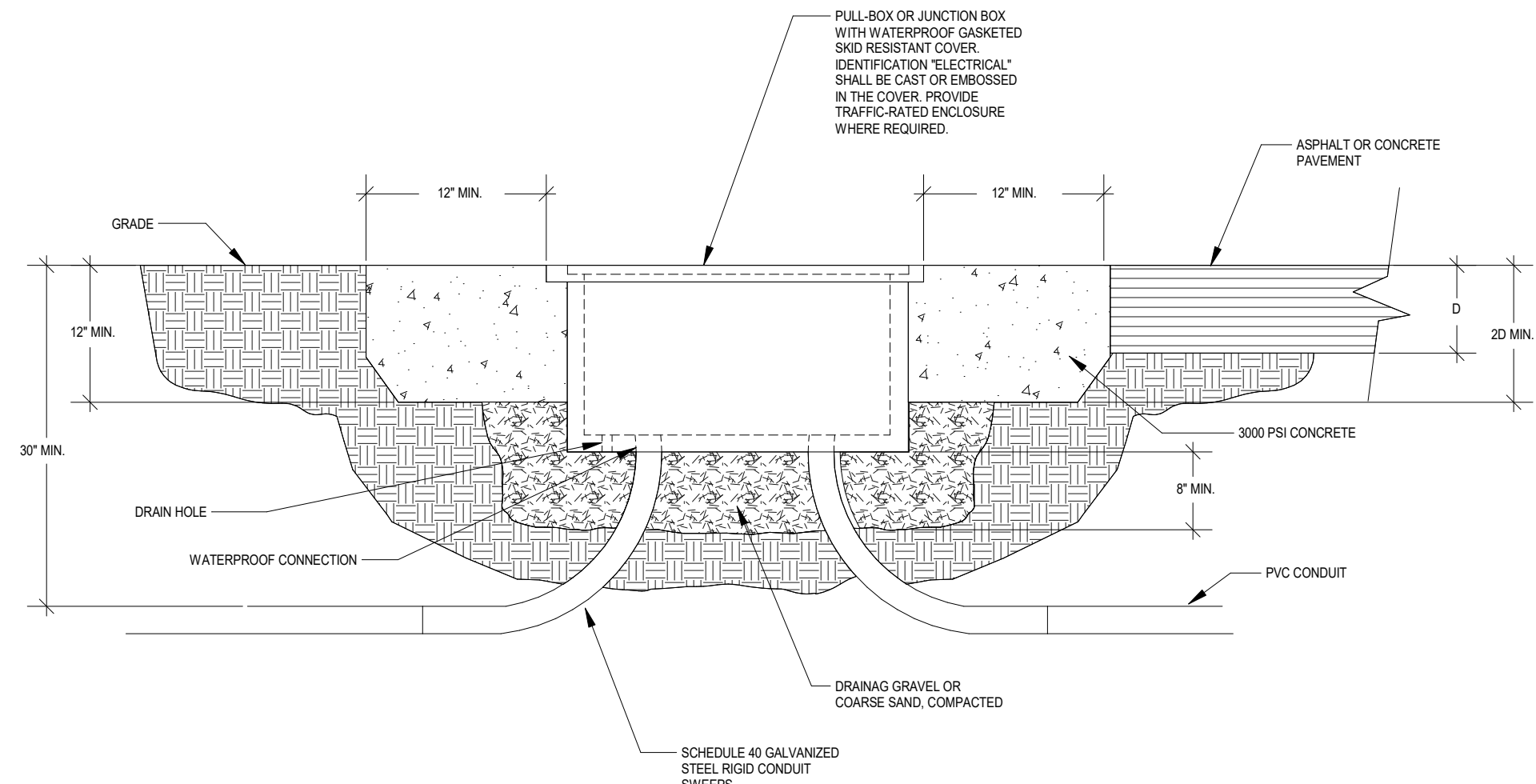
7	TYPICAL PIPE TRENCH/FOOTING DETAIL NOT TO SCALE
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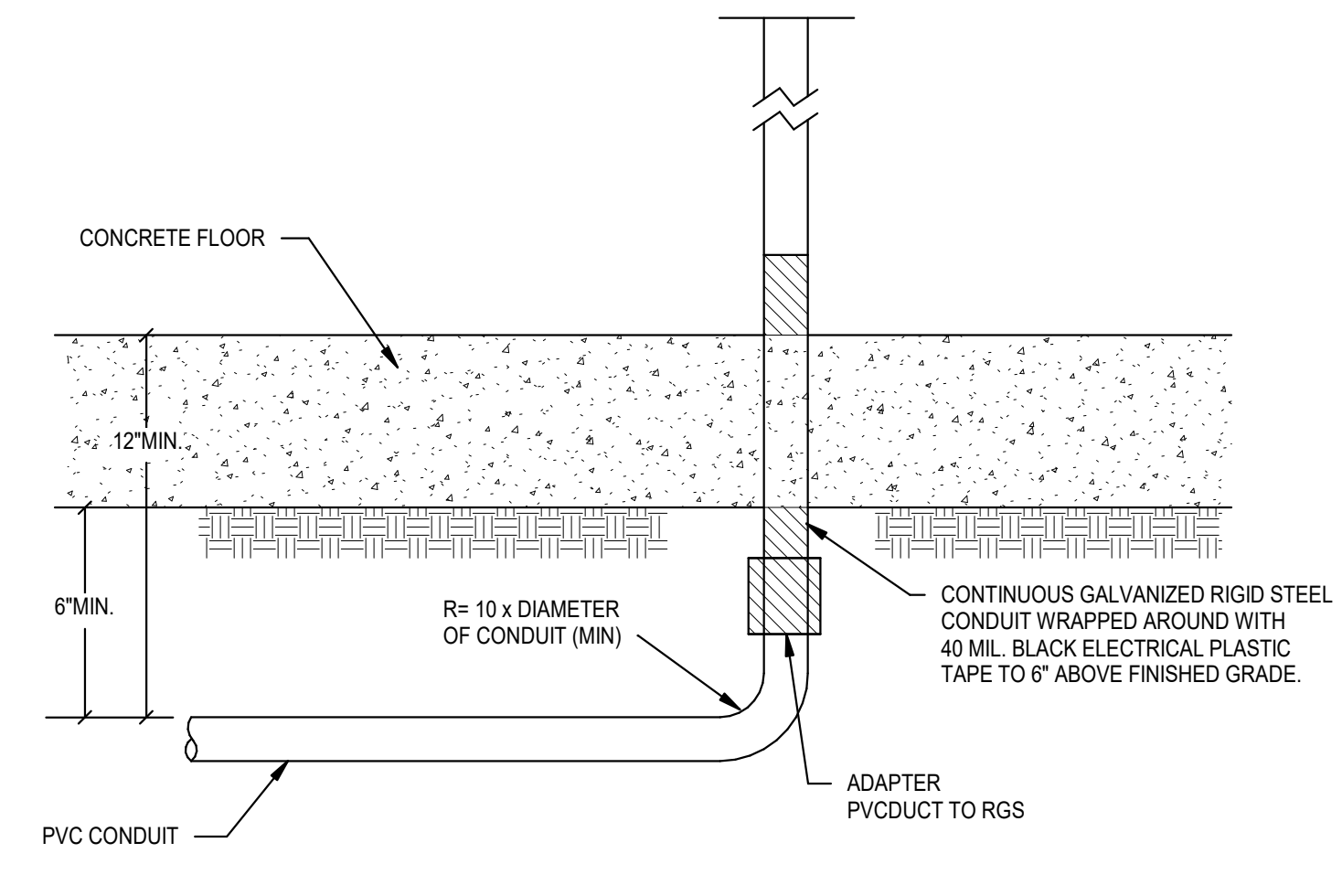
5	GROUND ROD DETAIL
	NOT TO SCALE



4 SURFACE MOUNTED FIXTURE DETAIL



2	EXTERIOR JUNCTION BOX NOT TO SCALE
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1	CONDUIT RISER DETAIL NOT TO SCALE
----------	---

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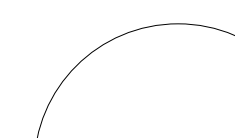
KEY PLAN

NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C. DELA CRUZ
No. E 23576
Exp. 09-30-2023
State of California
ELECTRICAL

Architect

A large, empty circle with a thin black outline, centered within a rounded rectangular frame. The frame has a thick black border. The word "Architect" is written in a simple, black, sans-serif font above the circle.[illegible]

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ELECTRICAL DETAILS

E6.1

PLUMBING LEGEND		CALIFORNIA GREEN BUILDING STANDARDS
NOTE: NOT ALL SYMBOLS TABULATED BELOW ARE NECESSARILY USED ON THE DRAWINGS.		
SYMBOL	ITEM	ABBR.
	FIXTURE DESIGNATION UNIT ABBREVIATION NUMBER	
	DETAIL DESIGNATION DETAIL NUMBER	
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HW RETURN	HWR
	EXISTING PIPING	
	POINT OF CONNECTION	POC
	CONDENSATE DRAIN	
	SHUT-OFF VALVE IN BOX	SOV
	PIPING RISE	
	PIPING DROP	
	SOIL OR WASTE	S OR W
	VENT	V
	VENT THRU ROOF	VTR
	FLOOR CLEANOUT	FCO
	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	HOSE BIBB	HB
	ROOF DRAIN	RD
	OVERFLOW DRAIN	OD
	DOWN SPOUT	DS
	UNDERGROUND	UG
	TRAP PRIMER	TP
	STORM DRAIN	SD
	EXISTING	EXIST.
	NEW	NEW
	UNDERFLOOR	UF
	OVERHEAD	OH
	RELIEF	
	DRAIN	
	CONDENSATE DRAIN CLEAN OUT	CO
	SECONDARY CONDENSATE DRAIN	
	FURNACE CONDENSATE	
	GAS SHUT OFF VALVE	GSOV
	CONDENSATE DRAIN TRAP	CDT
	LIQUIFIED PETROLEUM GAS	LPG
	NATURAL GAS	G
	FIRE SPRINKLER RISER	FSR
	FIRE SPRINKLER LINE	FSL
	FIRE DEPARTMENT CONNECTION	FDC
	FINISHED FLOOR	FF
	FLOW LINE	FL
	FIRE RATED PENETRATION	
	POINT OF DISCONNECTION	POD
	POINT OF CONNECTION	POC

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

5.303.1 METERS: SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR USES DESCRIBED IN SECTIONS 5.303.1.1 AND 5.303.1.2.

5.303.1.1 NEW BUILDINGS OR ADDITIONS IN EXCESS OF 50,000 SQUARE FEET:

- FOR EACH INDIVIDUAL LEASED, RENTED, OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 100 GAL/DAY, INCLUDING, BUT NOT LIMITED TO, SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP.
- WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDING TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS:
 - MAKE-UP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM.
 - MAKE-UP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM.
 - STEAM AND HOT-WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 BTU/H.

5.303.1.2 EXCESS CONSUMPTION: A SEPARATE SUBMETER OR BE PROVIDED FOR ANY TENANT WITHIN A NEW BUILDING OR WITHIN AN ADDITION THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.

5.303.2 RESERVED

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS: PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

5.303.3.1 WATER CLOSETS: THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

5.303.3.2 URINALS:

5.303.3.2.1 WALL-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

5.303.3.2.2 FLOOR-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.3 SHOWERHEADS:

5.303.3.3.1 SINGLE SHOWERHEAD: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER: WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI. OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

5.303.3.4 FAUCETS AND FOUNTAINS:

5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS: LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.2 KITCHEN FAUCETS: KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.3 WASH FOUNTAINS: WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 (RIM SPACE (INCHES) AT 60 PSI).

5.303.3.4.4 METERING FAUCETS: METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS: METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 (RIM SPACE (INCHES) AT 60 PSI). NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

PLUMBING TESTING	GENERAL PLUMBING NOTES
<p>1. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION. A WRITTEN REPORT ON THE CONDITION OF ALL EQUIPMENT TO REMAIN, INCLUDING A COPY OF THE TEST RESULTS AND RECOMMENDED REMEDIAL ACTIONS AND COSTS SHALL BE MADE BY THIS CONTRACTOR TO THE ARCHITECT/ENGINEER FOR REVIEW.</p> <p>2. PIPE COVER AND BACKFILLING: A. AFTER HYDROSTATIC TEST, EVENLY BACKFILL ENTIRE TRENCH WIDTH BY HAND PLACING BACKFILL MATERIAL AND HAND TAMPING IN FOUR (4) CHES COMPACTED LAYERS TO 12 INCHES MINIMUM COVER OVER TOP OF JACKET. COMPACT TO 95 PERCENT MAXIMUM DENSITY. B. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN C. UNIFORM LAYERS WITH BACKFILL MATERIAL. D. DO NOT USE WHEELED OR TRACKED VEHICLES FOR TAMPING.</p> <p>3. PRESSURE TEST ALL DOMESTIC WATER PIPING, AFTER INSTALLATION AND PRIOR TO BACKFILL, OR COVER-UP, RINSE PIPING SYSTEM OF PARTICULATE CONTAMINANTS, CAP AND SUBJECT TO STATIC WATER PRESSURE OF 125 PSIG FOR FOUR (4) HOURS. REPAIR LEAKS AND DEFECTS AND RE-TEST ANY PORTION OF PIPING SYSTEM THAT FAILS. PROVIDE WRITTEN TEST REPORT INCLUDING DATE AND TIME OF TEST, PASS OR FAIL INDICATION, SUMMARY OF REMEDIAL WORK REQUIRED AND DATE AND TIME OF EACH RE-TEST.</p> <p>4. PRIOR TO COVER-UP, WATER PIPE, SANITARY PIPE, AND GAS PIPING SHALL BE PRESSURE TESTED. TESTS SHALL BE WITNESSED BY CONSULTANT AND OWNER. NOTIFY OWNER 48 HOURS PRIOR TO TEST. TEST SHALL BE WITNESSED BY CLIENT PLUMBING TECHNICIAN.</p> <p>5. UPON COMPLETION OF THE SANITARY PIPING SYSTEM, THE CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER TO OBSERVE A SMOKE TEST OF THE SYSTEM. SMOKE TESTING SHALL BE PERFORMED ON SANITARY PIPING SYSTEM TWICE DURING CONSTRUCTION.</p> <p>6. PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54. CA PLUMBING CODE SECTION 1213</p>	
MEP COMPONENT ANCHORAGE NOTES:	<p>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 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:</p> <ol style="list-style-type: none">ALL PERMANENT EQUIPMENT AND COMPONENTS.TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 100/200 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.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. <p>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:</p> <ol style="list-style-type: none">COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. <p>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.</p>
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	<p>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 2019 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.</p> <p>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 PRE-APPROVED INSTALLATION GUIDE (E.G., OSHA OPM FOR2813 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGING AND BRACE LOADS.</p> <p>MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):</p> <p>MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/> OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.</p> <p>MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/> OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHA PRE-APPROVAL (OPM #) # _____.</p>

SHEET INDEX

SHEET	DESCRIPTION
P0.0	PLUMBING SHEET INDEX, LEGEND, AND NOTES
P1.0	PLUMBING SITE PLAN
PD2.1	PLUMBING DEMOLITION PLANS - ADMIN & KINDERGARTEN, BLDG A,B & C
P2.1	PLUMBING FLOOR PLANS - ADMIN & KINDERGARTEN, BLDG A,B & C
P4.1	PLUMBING ROOF PLANS
P5.1	PLUMBING SCHEDULES
P6.1	PLUMBING DETAILS

ABBREVIATIONS

NOTE: 1. ALL ABBREVIATIONS MAY NOT BE USED ON THESE DRAWINGS.

AAP	AREA ALARM PANEL	MH	MANHOLE
AAV	AUTOMATIC AIR VENT	MS	MOP SINK
A.F.F.	ABOVE FINISHED FLOOR	N.C.	NORMALLY CLOSED
AP	ACCESS PANEL	NIC	NOT IN CONTRACT
B.F.F.	BELOW FINISHED FLOOR	N.O.	NORMALLY OPEN
BFP	BACKFLOW PREVENTER	O.F./C.I.	OWNER FURNISHED/CONTRACTOR INSTALLED
BOB	BOTTOM OF BEAM	O.F./O.I.	OWNER FURNISHED/OWNER INSTALLED
BOP	BOTTOM OF PIPE	OFD	OVERFLOW DRAIN
BTUH	BRITISH THERMAL UNITS PER HOUR	PH	PHASE
CA	COMPRESSED AIR	PW	POST INDICATOR VALVE
CIC	CUT AND CAP	PRV	PRESSURE REDUCING VALVE
CFH	CUBIC FEET PER HOUR	RD	ROOF DRAIN
CFS	CUBIC FEET PER SECOND	RE	REFER TO
CI	CAST IRON	R.I.C.	ROUGH-IN AND CONNECT
CLG	CEILING	RO	REVERSE OSMOSIS
CO	CLEANOUT	RBPFP	REDUCED PRESSURE BACKFLOW PREVENTER
CONN	CONNECTION	RPM	REVOLUTIONS PER MINUTE
CONT.	CONTINUATION	RVB	REFRIGERATOR VALVE BOX
DF	DRINKING FOUNTAIN	SD	STORM DRAIN
DPV	DRY PIPE VALVE	S.F.	SQUARE FEET
DWG.	DRAWING	SIA	SIAMESE
EA	EACH	SK	SINK
EL	ELEVATION	T.O.P.	TOP OF PIPE
EDF	ELECTRIC DRINKING FOUNTAIN	TP	TRAP PRIMER
FCO	FLOOR CLEANOUT	TYP	TYPICAL
FD	FLOOR DRAIN	U	URINAL
FDV	FIRE DEPARTMENT VALVE	UF	UNDERFLOOR
F.F.	FINISHED FLOOR	UIS	UNDERSLAB
FHC	FIRE HOSE CABINET	VAC. BRKR.	VACUUM BREAKER
F.L.	FLOW LINE	VIF	VERIFY IN FIELD
FS	FLOOR SINK	VTR	VENT THRU ROOF
FT	FEET	WC	WATER CLOSET
FU	FIXTURE UNITS	WCO	WALL CLEANOUT
GC	GENERAL CONTRACTOR	WH	WALL HYDRANT
GPH	GALLONS PER HOUR	WMB	WASHING MACHINE BOX
GPM	GALLONS PER MINUTE	YH	YARD HYDRANT
HB	HOSE BIBB	ZV	ZONE VALVE
HP	HORSEPOWER	(A)	ITEM NOTED TO BE ABANDONED
I.E.	INVERT ELEVATION	(D)	ITEM NOTED TO BE DEMOLISHED
KW	KILOWATTS	(E)	EXISTING ITEM
LAV	LAVATORY	(N)	NEW ITEM
MAP	MASTER ALARM PANEL	(R)	ZITEM NOTED TO RELOCATED
MECH	MECHANICAL		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

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DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. 30-443

KEY PLAN

Consultant

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE
12-29-2022

PROJECT NUMBER
220308

REVISIONS

No.	Description	Date

DSA SUBMITTAL

PLUMBING SHEET INDEX, LEGEND, AND NOTES

P0.0



1. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILTS
2. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
3. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTIONS PRIOR TO BIDDING THE PROJECT.
4. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND OR EXTEND EXISTING PIPING OR ROUGH INS AS REQUIRED TO SUIT THE NEW FIXTURE.

PBK

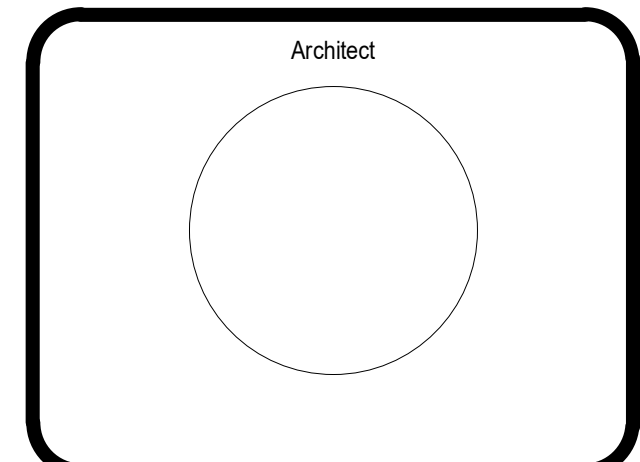
CONSULTANT **LEAF Engineers**

 **LEAF**
ENGINEERS

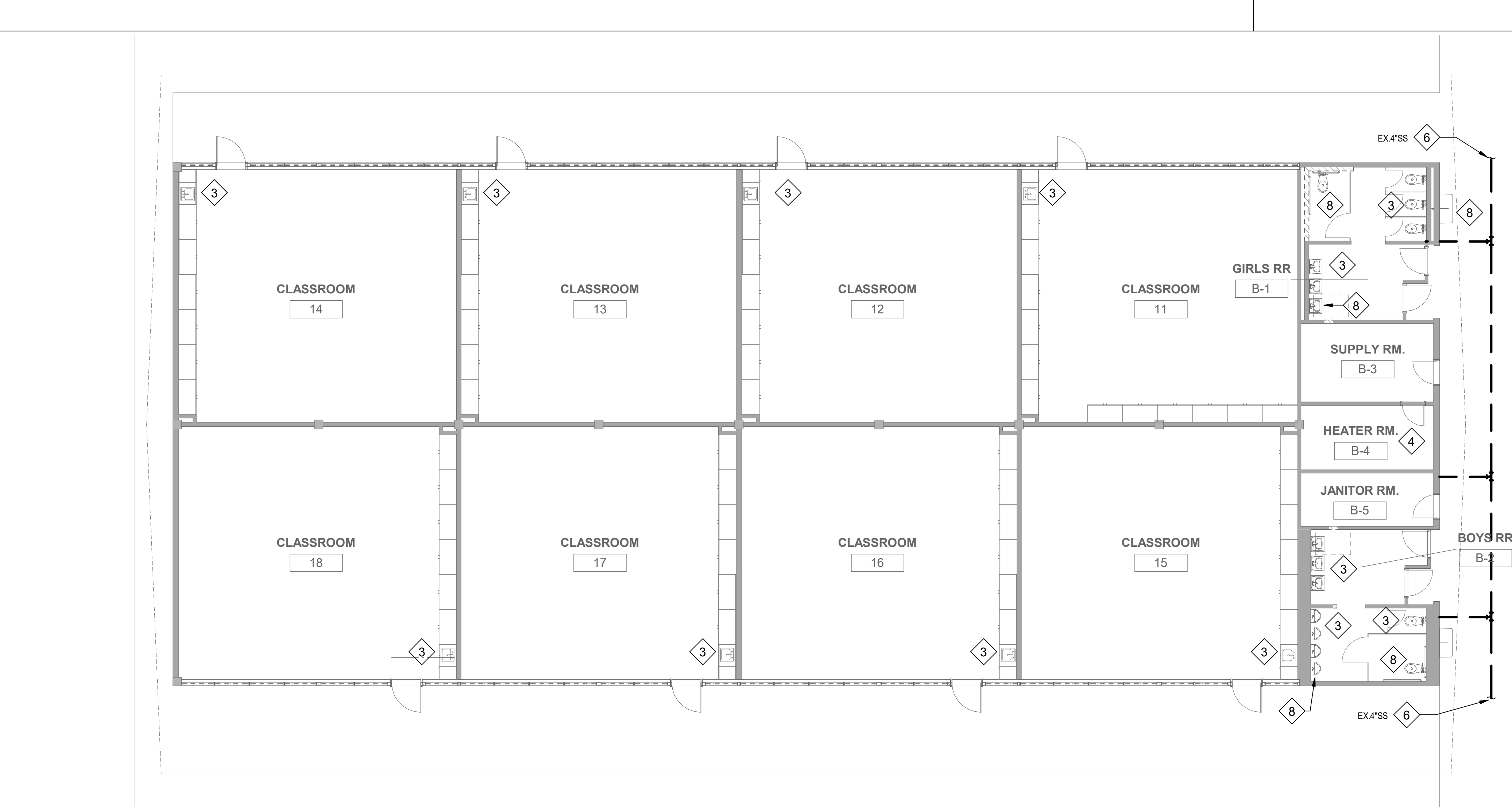
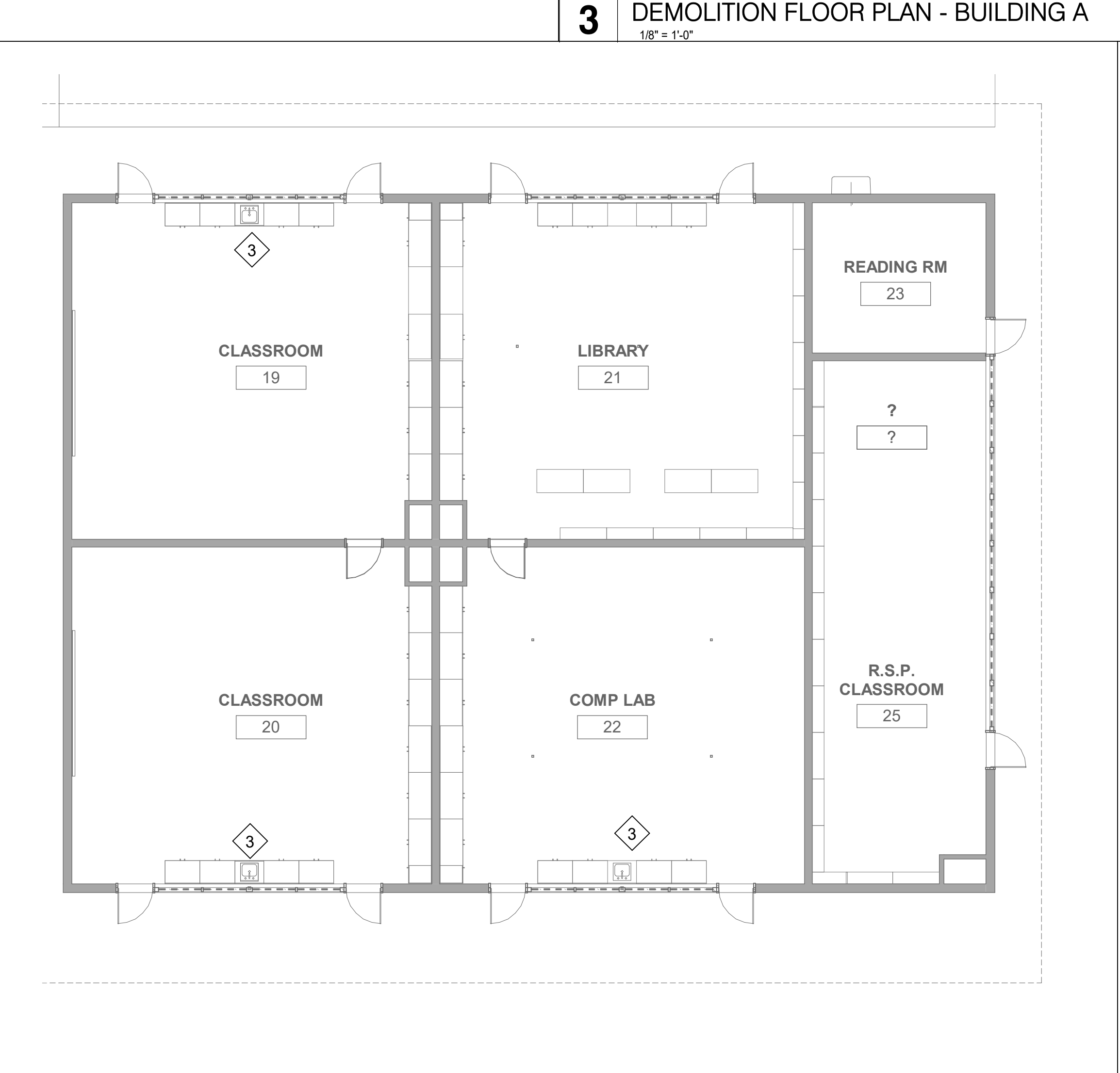
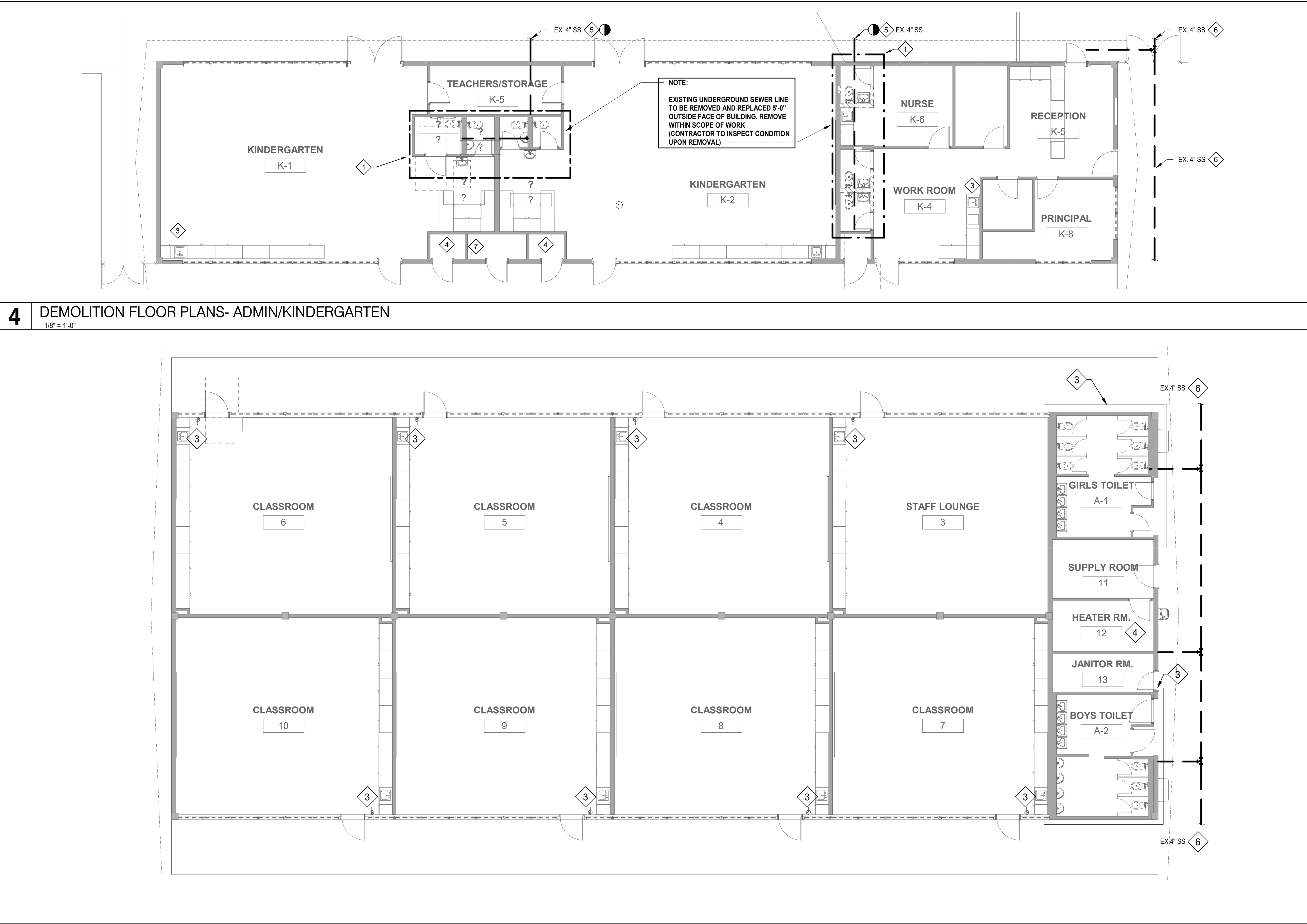
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**DSA SUBMITTAL**

P1.0

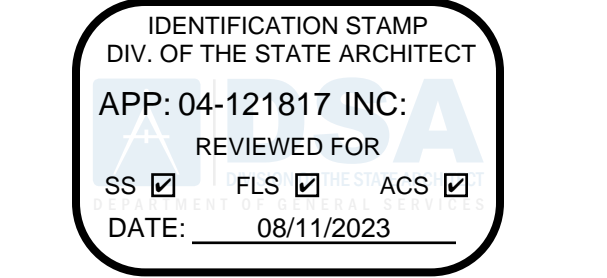


KEY NOTES

- EXISTING RESTROOMS TO BE RE-CONFIGURED. EXISTING PLUMBING FIXTURE TO BE REMOVED AND ALL APPURTENANCES. REMOVE AND REPLACE EXISTING 4" SANITARY BELOW GRADE WITHIN SCOPE OF WORK. UPON REMOVAL OF 4" SEWER LINE TEMPORARILY DISCONNECT OTHER LINES CONNECTING TEMPORARILY CAP EXISTING VENT AND WATER LINES ABOVE IN CEILING SPACE BACK TO THE MAIN BRANCH.
- EXISTING WATER CLOSET AND TRIM TO BE REPLACED. OFFSET EXISTING WASTE, VENT AND WATER FOR NEW WATER CLOSET ROUGH - IN DIMENSION (REFER TO ARCHITECTURAL).
- EXISTING PLUMBING FIXTURES TO REMAIN
- EXISTING HEATER UNIT TO BE REMOVED (SEE MECHANICAL DWGS.) AND ALL APPURTENANCES. DISCONNECT AND CAP GAS SUPPLY.
- DISCONNECT EX. 4" SEWER UP TO THIS POINT 5'-0" OUTSIDE OF BUILDING
- EXISTING TO REMAIN
- EXISTING 40 GALLON GAS WATER HEATER TO REMAIN
- EXISTING FIXTURE TO BE REMOVED AND REPLACED. CAP EXISTING SEWER, VENT AND WATER LINES TEMPORARILY, FOR NEW REPLACEMENT

CONSTRUCTION NOTES

- FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILTS
- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTIONS PRIOR TO BIDDING THE PROJECT.
- WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND OR EXTEND EXISTING PIPING OR ROUGH INS AS REQUIRED TO SUIT THE NEW FIXTURE.

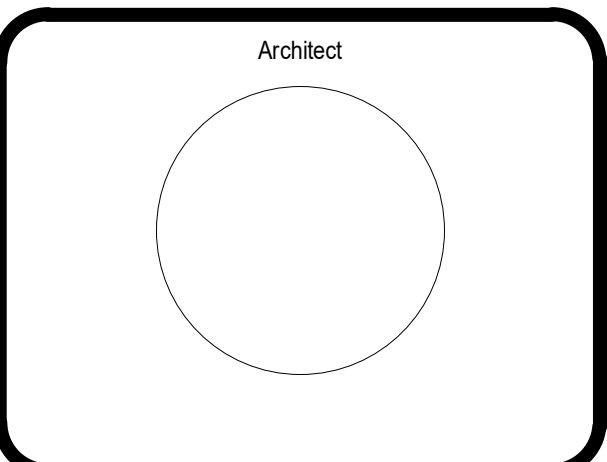
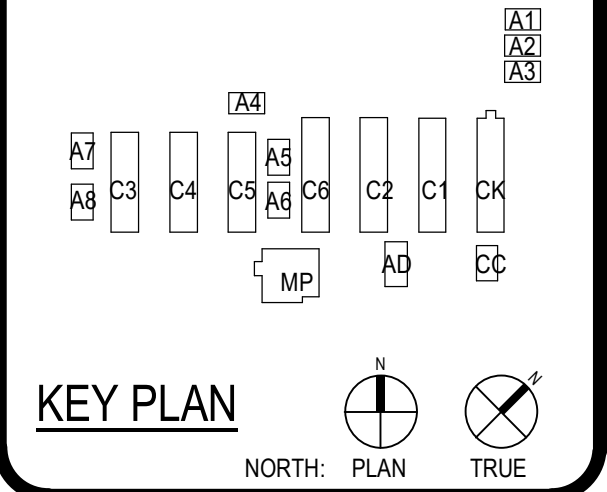


SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

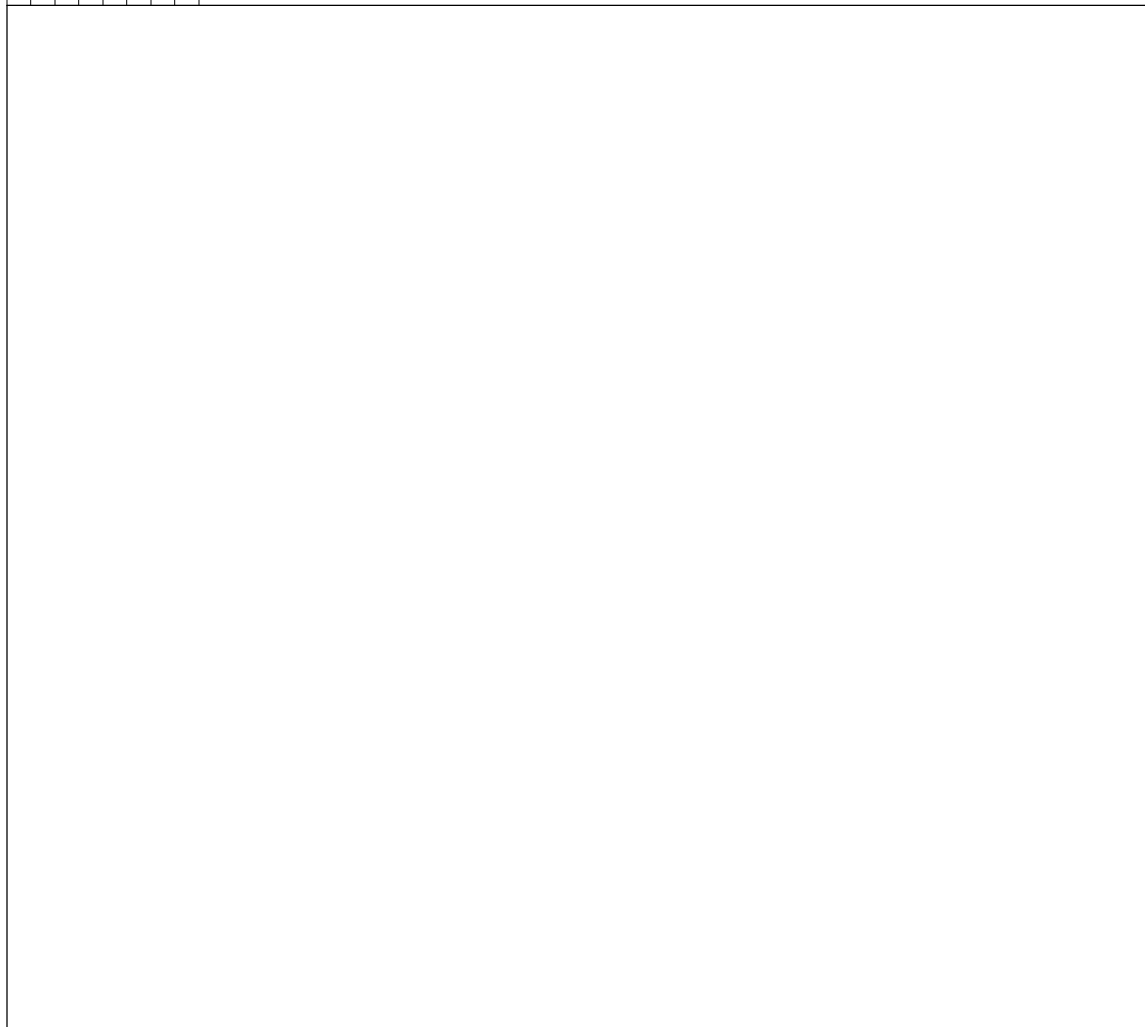
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DSA APPL NO. 04-121817 DSA FILE NO. 30-43

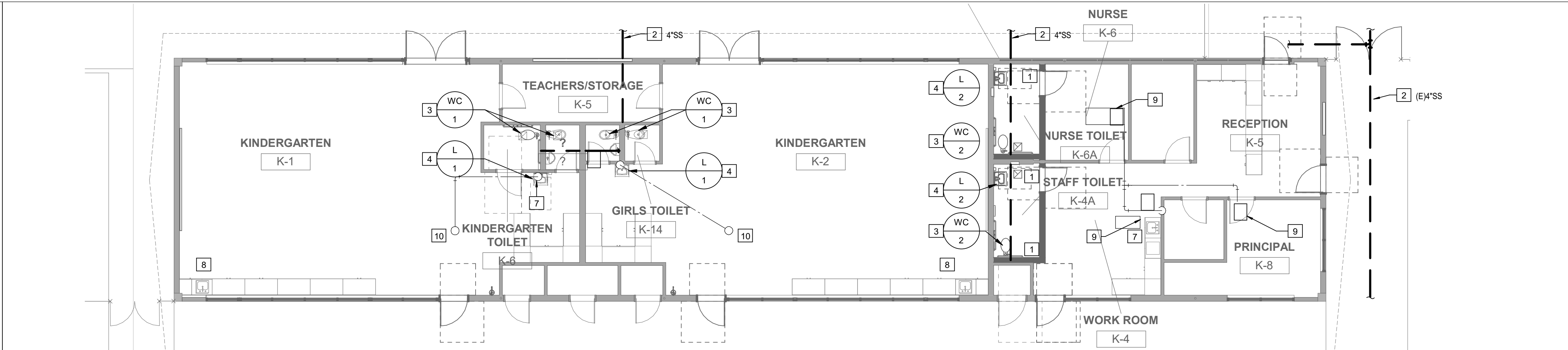


REVISIONS		
No.	Description	Date

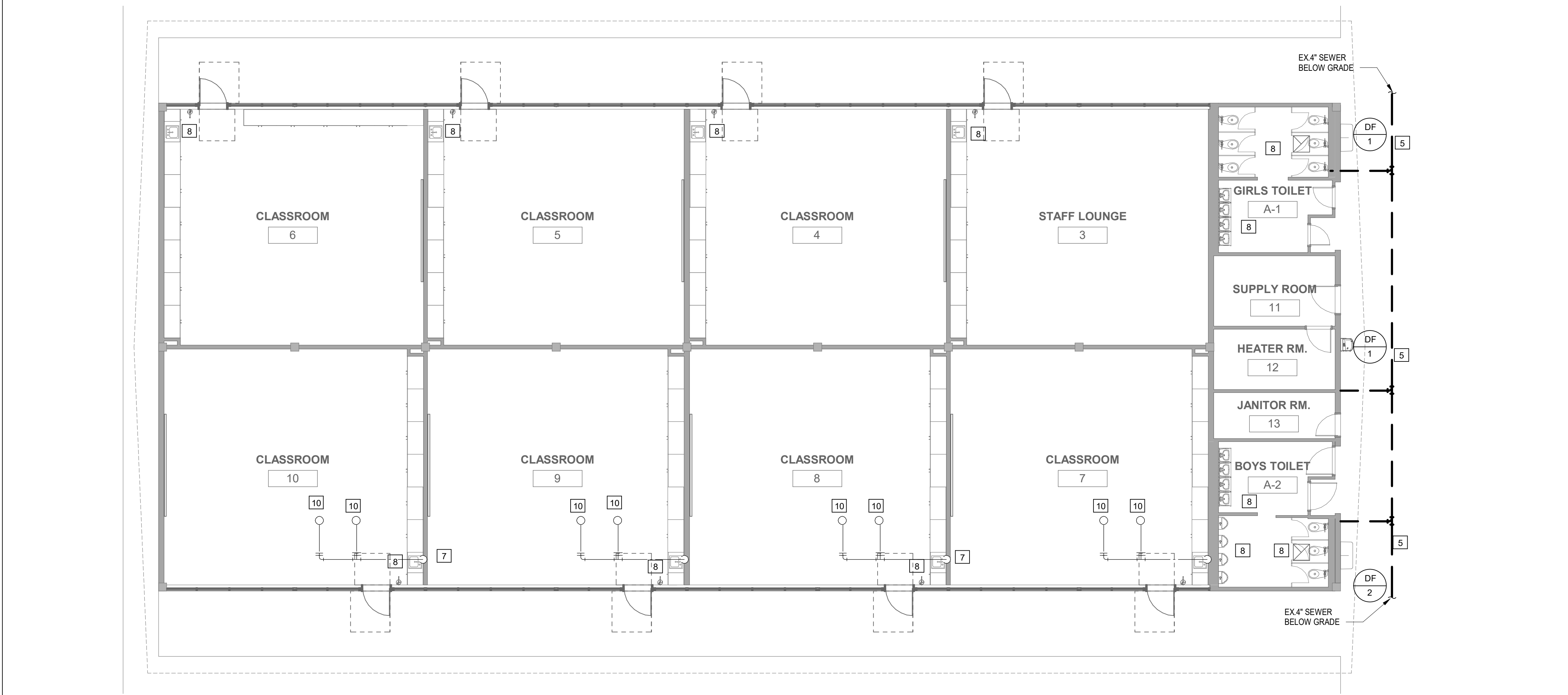
DSA SUBMITTAL
PLUMBING DEMOLITION
PLANS - ADMIN &
KINDERGARTEN, BLDG
A,B & C



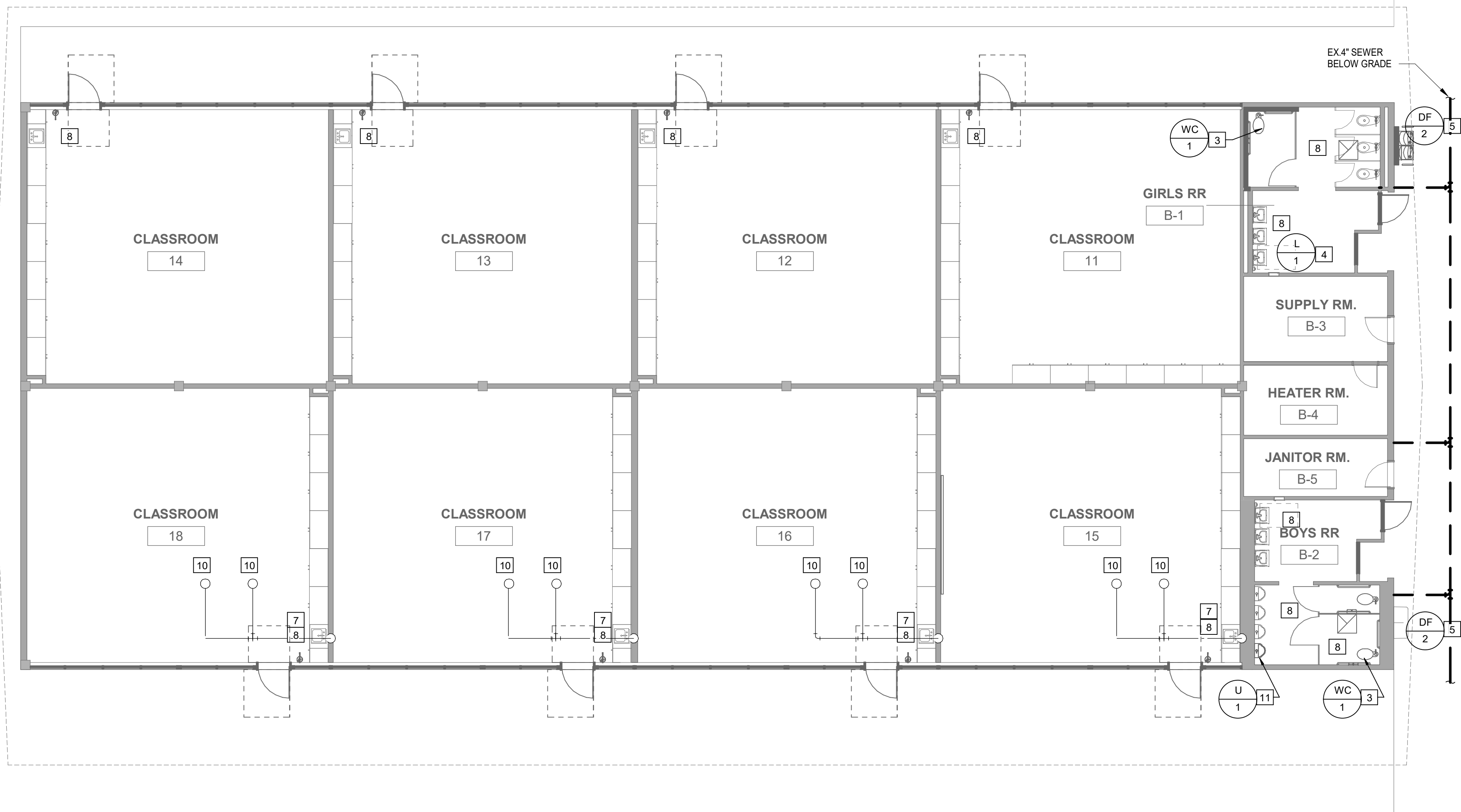
2 FLOOR PLAN - BUILDING C
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING A
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING B
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING B
1/8" = 1'-0"

KEY NOTES

- 1 PIPING ABOVE IN CEILING SPACE
- 2 PIPING BELOW FLOOR / GRADE
- 3 ROUGH IN AND CONNECT 4" SANITARY SEWER, 2" VENT AND 1-1/4" CW TO WATER CLOSET.
- 4 LAVATORY AND FAUCET TO BE INSTALLED ADA COMPLIANT. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ANGLE STOP, SINK SUPPLY, COMPLETE WITH LOOSE KEY, CHROME ESCUTOCHON PLATE COMPRESSION INLET, HEAVY DUTY OUTLET RISER, ROUGH IN AND CONNECT 2" SANITARY SEWER, 2" VENT AND 1/2" H/ CW
- 5 DRINKING FOUNTAIN POC TO (E) 2" SS AND 2" VENT AND (E) 3/4" CW
- 6 POC TO EXISTING VENT ABOVE IN CEILING SPACE
- 7 3/4" CONDENSATE FROM ABOVE. DROP DN. IN WALL TO LAV TAIL PIECE SEE DETAIL V P6.1
- 8 EXISTING PLUMBING FIXTURE
- 9 NEW FAN COIL UNIT (BY MECHANICAL) PROVIDE 3/4" CONDENSATE DRAIN LINE FOR CONDENSATE PIPE CONNECTION TO UNIT REFER TO MANUFACTURE'S RECOMMENDATION.
- 10 3/4" CONDENSATE DRAIN LINE UP TO A/C UNIT ON ROOF.
- 11 ROUGH IN AND CONNECT 2" SANITARY SEWER, 2" VENT AND 1" CW TO URINAL.

CONSTRUCTION NOTES

1. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILTS
2. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
3. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTIONS PRIOR TO BIDDING THE PROJECT.
4. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND OR EXTEND EXISTING PIPING OR ROUGH INS AS REQUIRED TO SUIT THE NEW FIXTURE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK
ARCHITECT PBK Architects, Inc.
COSTA MESA
600 Anton Boulevard, Suite 1375
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P 949-546-5000
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CONSULTANT LEAF Engineers
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8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909-957-0909
leafengineers.com

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION
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DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. 30-43

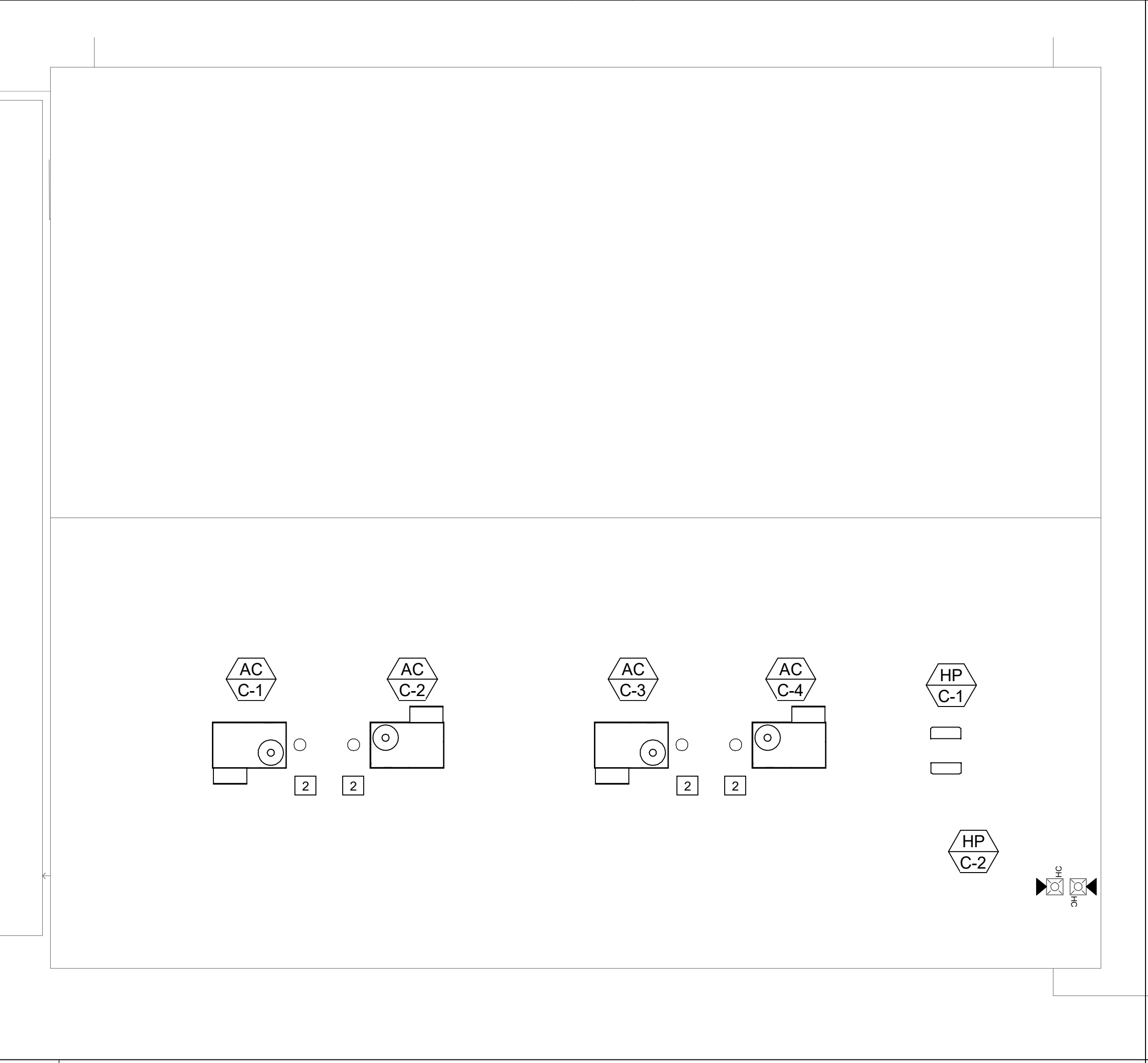
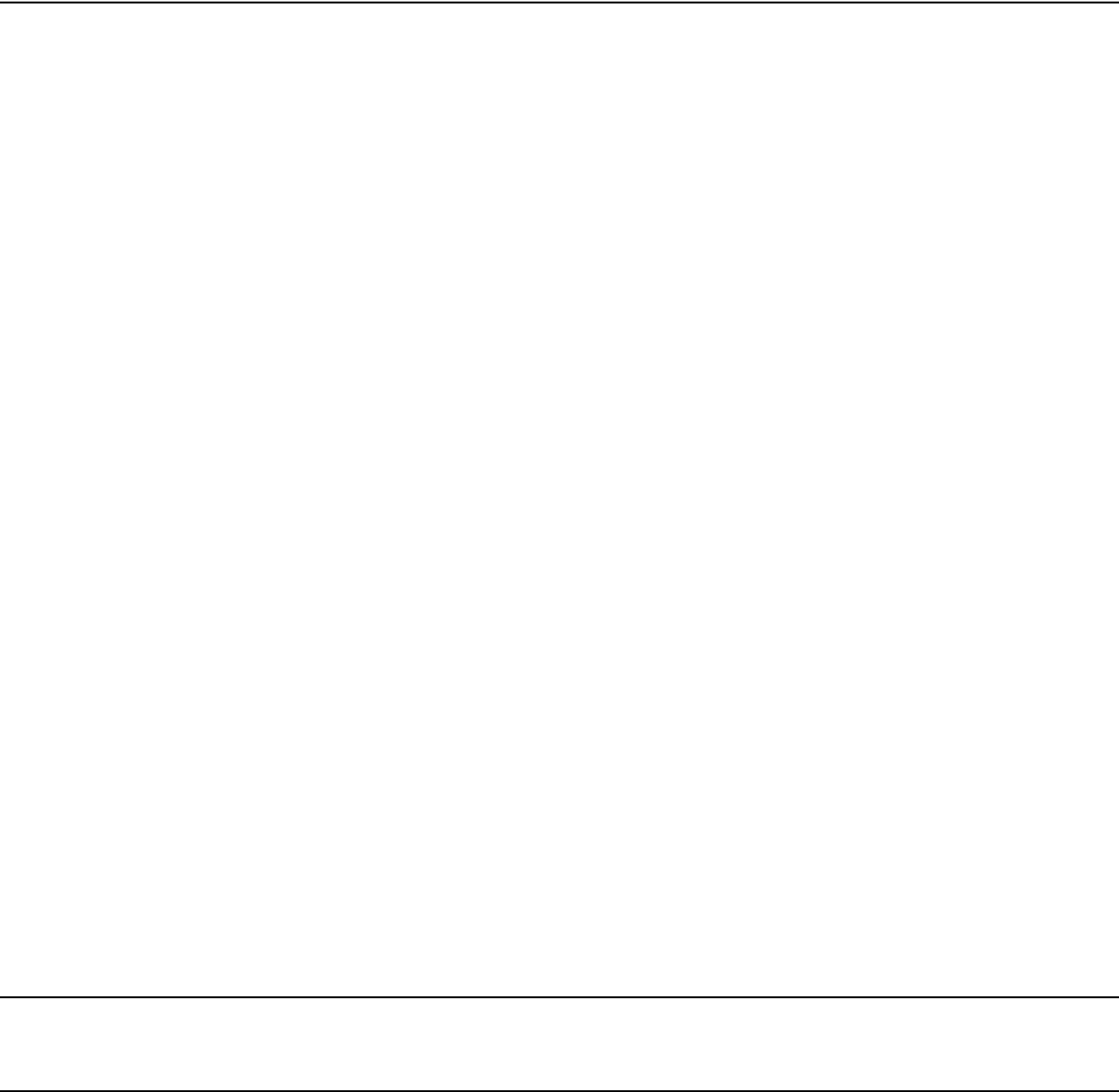
KEY PLAN
NORTH: PLAN TRUE

Consultant
REG. PROFESSIONAL ENGINEER
No. 65916
Exp. 09-30-2024
DAVID WOOD
STATE OF CALIFORNIA

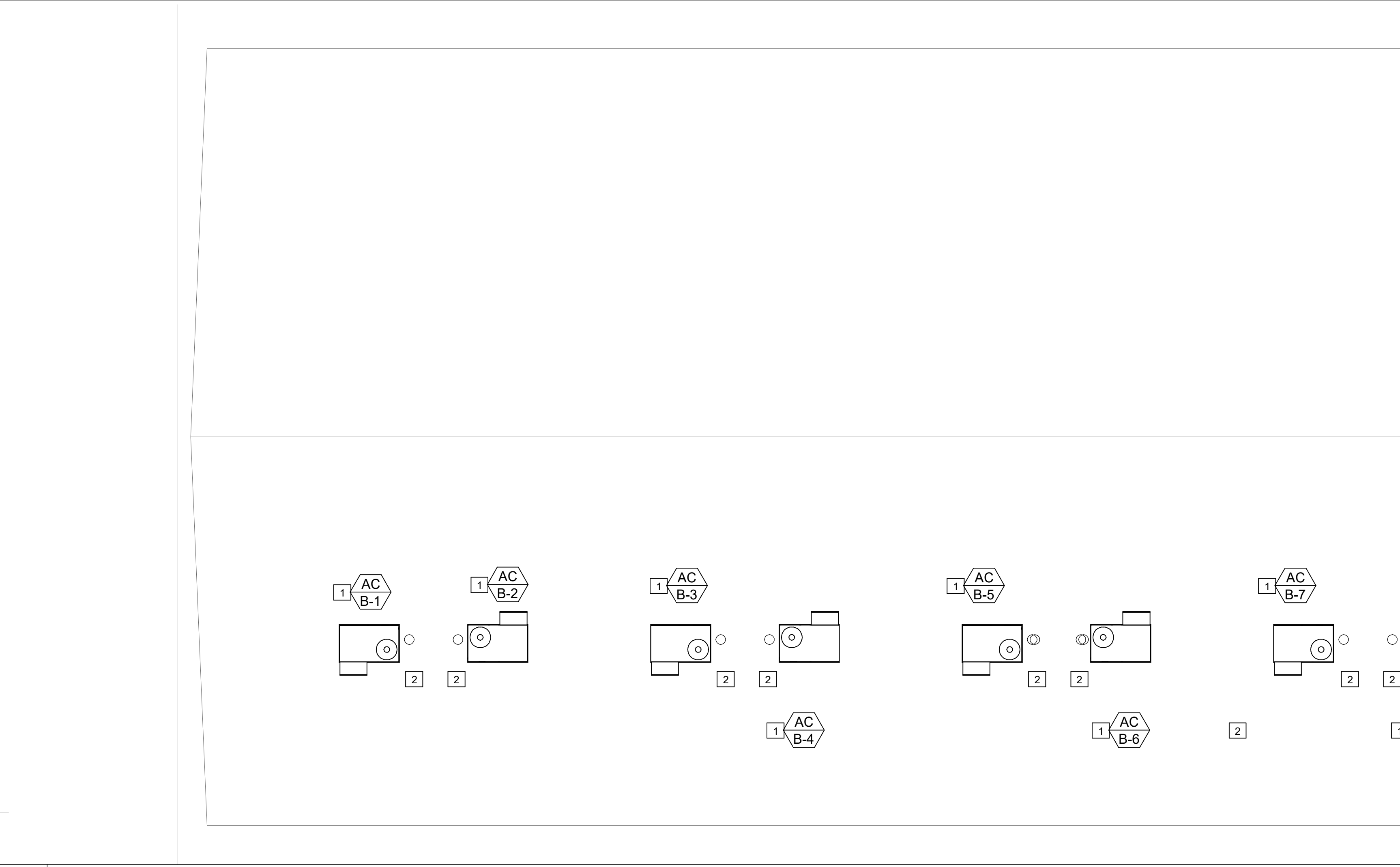
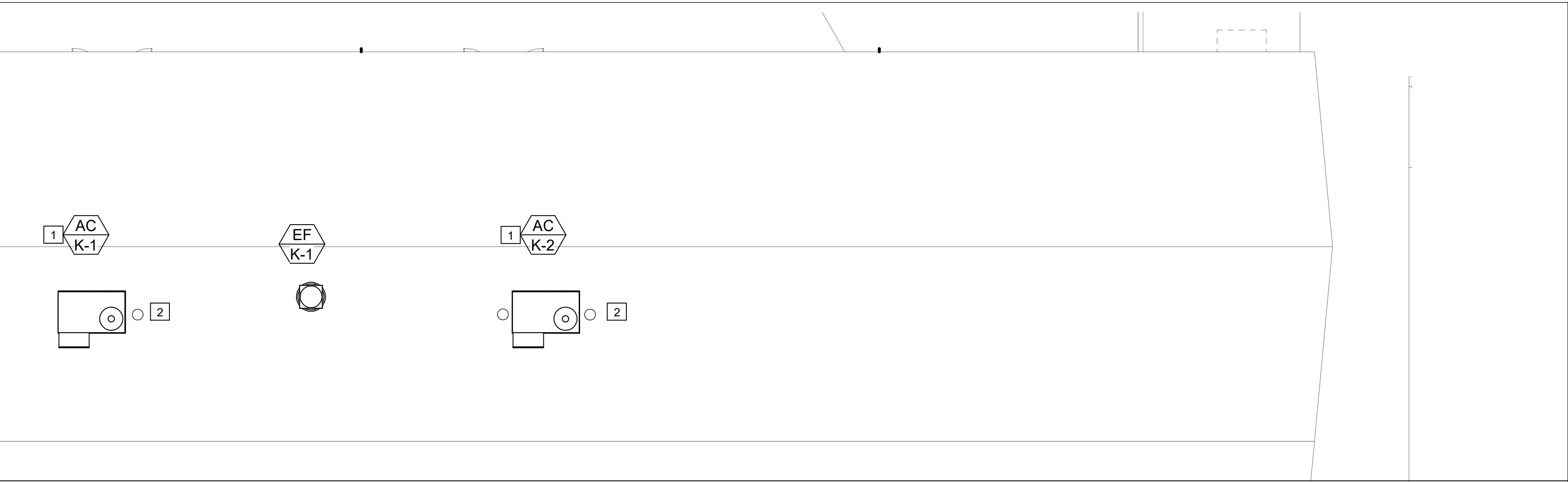
Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220308
REVISIONS
No. Description Date
DSB SUBMITTAL
PLUMBING FLOOR PLANS - ADMIN & KINDERGARTEN, BLDG A,B & C

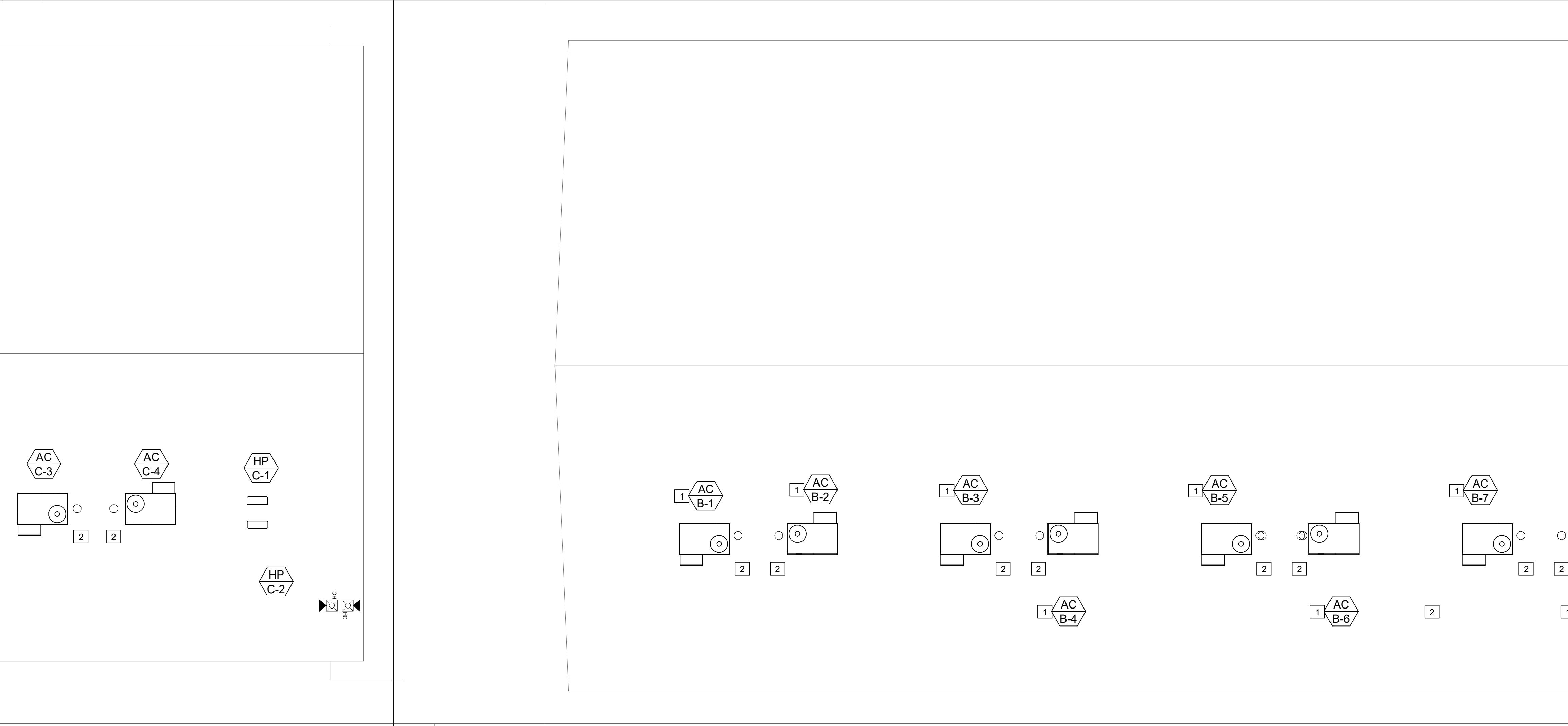
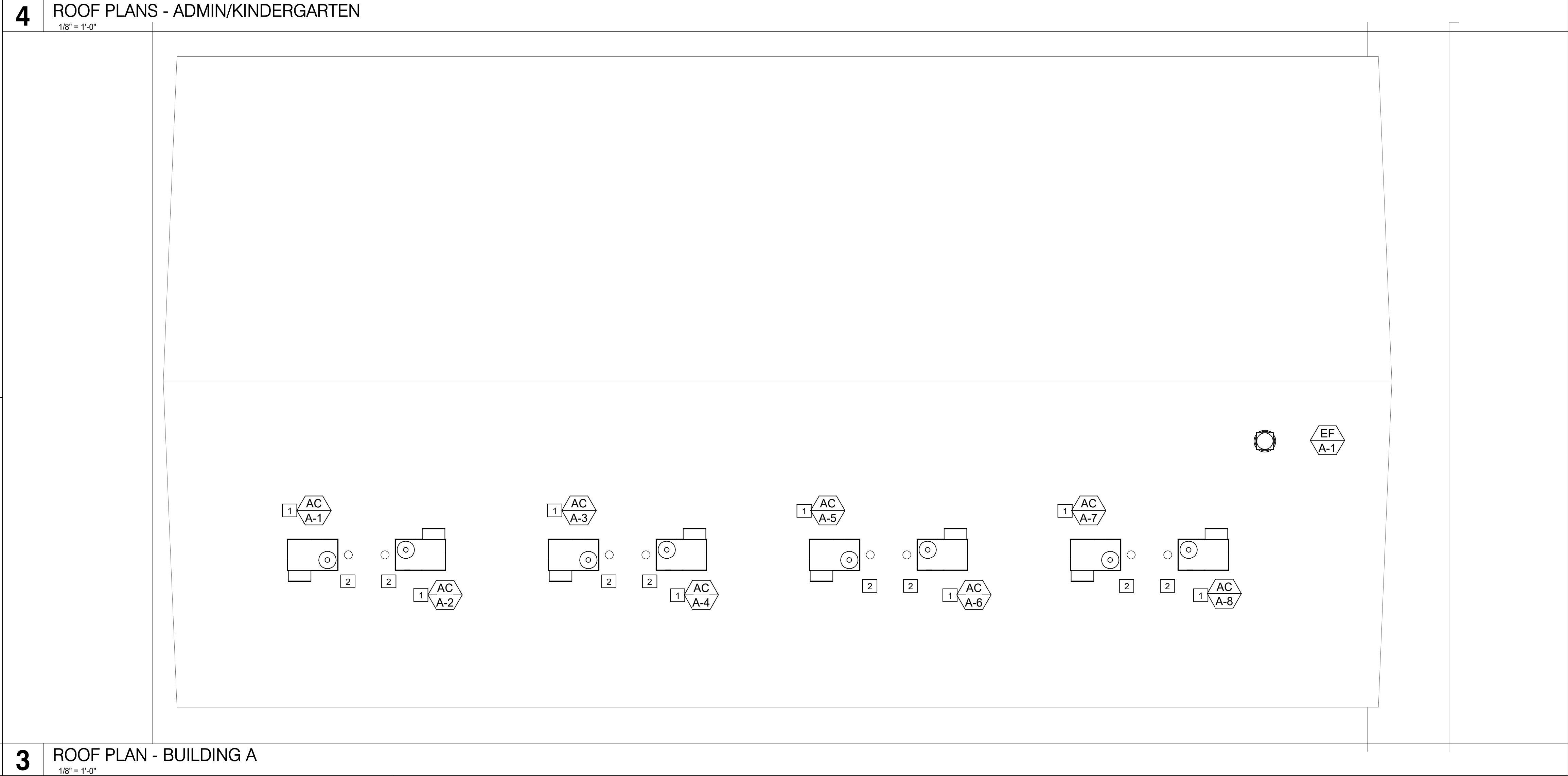
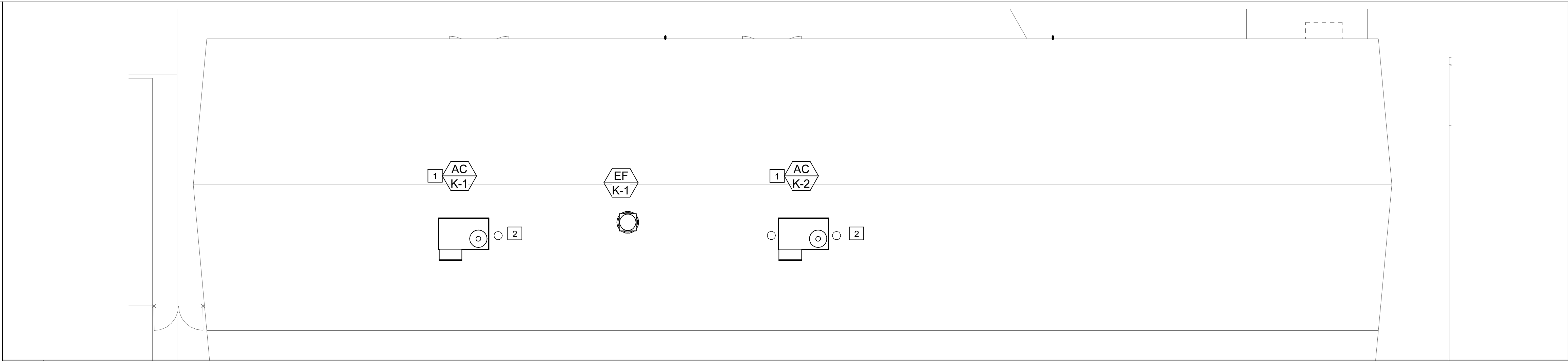
P2.1



2 ROOF PLAN - BUILDING C
1/8" = 1'-0"



1 ROOF PLAN - BUILDING B
1/8" = 1'-0"



4 ROOF PLANS - ADMIN/KINDERGARTEN
1/8" = 1'-0"

KEY NOTES

1

NEW A/C UNITS (BY MECHANICAL) PROVIDE 3/4" CONDENSATE LINE, TRAP AND VENT AS REQUIRED. DETAIL ON SHEET

2

3/4" CONDENSATE DOWN THROUGH ROOF

3

P6.1

CONSTRUCTION NOTES

1.

FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILTS

2.

BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES

3.

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTIONS PRIOR TO BIDDING THE PROJECT.

4.

WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND OR EXTEND EXISTING PIPING OR ROUGH INS AS REQUIRED TO SUIT THE NEW FIXTURE.

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DATE: 08/11/2023

ARCHITECT

PBK Architects, Inc.
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-546-5000

CONSULTANT

LEAF Engineers
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909-987-0909
leafengineers.com

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO. 04-121817 DSA FILE NO. 30-43

KEY PLAN

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PLUMBING ROOF PLANS

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PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE	S or W	V	CW	IHW	DESCRIPTION	
<div><div>WC</div><div>1</div></div>	WATER CLOSET (KINDER)	4"	2"	1-1/2"	---	AMERICAN STANDARD MADERA YOUTHWISE # 2599.001.128 FLOOR MOUNTED TOILET SYSTEM WITH 6047.161.002 MANUAL FLUSH VALVE WITH METAL COVER AND 5901.100 HEAVY DUTY OPEN FRONT ADJUSTABLE SEAT. FLUSH VALVE HANDLE TO BE MOUNTED ON WIDE SIDE OF STALL . CBC COMPLIANT	
<div><div>WC</div><div>2</div></div>	WATER CLOSET	4"	2"	1-1/2"	---	AMERICAN STANDARD MADERA FLOWISE # 2857.128 FLOOR MOUNTED TOILET SYSTEM WITH SLOAN ROYAL 111-1-28 MANUAL FLUSH VALVE WITH METAL COVER AND 5901.100 HEAVY DUTY OPEN FRONT ADJUSTABLE SEAT. FLUSH VALVE HANDLE TO BE MOUNTED ON WIDE SIDE OF STALL . (ACCESSIBLE) CBC COMPLIANT	
<div><div>U</div><div>1</div></div>	URINAL	2"	1-1/2"	1"	---	AMERICAN STANDARD # 6590.001 WASHBROOK FLOWISE WALL HUNG URINAL " VITREOUS CHINA" 0.125 GPF. SLOAN ROYAL 186.125 EXPOSED MANUAL FLUSH VALVE J.R. SMITH # 0600 SERIES URINAL SUPPORTS. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. FOR MOUNTING HEIGHT REFER TO ARCH PLANS. CBC COMPLIANT	
<div><div>L</div><div>1</div></div>	LAVATORY (KINDER GARTEN)	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD NO. 0356.041" LUCERNE WALL HUNG LAVATORY" 20"X18" WALL HUNG. COMPLETE WITH FAUCET. WITH 0.5 GPM AERATOR AND VANDAL RESISTANT COVER PLATE. MCQUIRE NO. 165A 1-1/4" OUTLET "OPEN GRID P.O. PLUG" MCQUIRE NO. PW8090N03 1-1/4" L.A. PATTERN P-TRAP WITH TRAP AND SUPPLY COVERS. GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING. CHICAGO NO. 101T -80CP LOOSE KEY STOPSWITH RIGID SUPPLIES, AND ZURN NO. Z-1231CARRIER WITH STEEL PLATE. MOUNT AT ADA	
<div><div>L</div><div>2</div></div>	LAVATORY (STAFF)	2"	1-1/2"	1/2"	1/2"	SAME AS L-1 MOUNT AT ADULT ACCESSIBLE HEIGHT	
<div><div>DF</div><div>1</div></div>	DRINKING FOUNTAIN	2"	2"	1/2"	---	ELKAY NO. L288WSLP / FILTERED SINGLE LZ COOLER. WALL MOUNTED. W TOUCHLESS BOTTLE FILLER ED2020. W SOLENOID VALVE. CONTROLLED BY TRANSFORMER 115 / 60HZ / 4.2 FLA 14 GAUGE STAINLESS STEEL W/ INTEGRAL 1/4" STAINLESS STEEL MOUNTING PLATE. ADA APPROVED. COMPLETE WITH VANDAL PROOF BOTTOM. CHICAGO NO. 45LK4BCP ANGLE STOP W/ 1/2" FEMALE INLET & OUTLET. MOUNT AT ADA ACCESSIBLE HEIGHT.	
<div><div>DF</div><div>2</div></div>	DRINKING FOUNTAIN	2"	2"	1/2"	---	ELKAY NO. VRC8TLWS / FILTERED HIGH LOW LZ COOLER. WALL MOUNTED. W TOUCHLESS BOTTLE FILLER ED2020. W SOLENOID VALVE. CONTROLLED BY TRANSFORMER 120 / 60HZ / 4.2 FLA 14 GAUGE STAINLESS STEEL W/ INTEGRAL 1/4" STAINLESS STEEL MOUNTING PLATE. ADA APPROVED. COMPLETE WITH VANDAL PROOF BOTTOM. CHICAGO NO. 45LK4BCP ANGLE STOP W/ 1/2" FEMALE INLET & OUTLET. MOUNT AT ADA ACCESSIBLE HEIGHT.	
<div><div>WHA</div><div>1</div></div>	WATER HAMMER ARRESTER	---	---	VARIES	VARIES	PPP SC SERIES HYDRA-RESTER. SEAMLESS COPPER CHAMBER SUITABLE FOR CONCEALED INSTALLATION. SIZE INDICATED ON PLANS. INSTALL PER MANUFACTURER RECOMMENDATION.	
<div><div>TP</div><div>1</div></div>	TRAP PRIMER	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS INC. BRASS DIAPHRAM TYPE TRAP PRIMER W/INTG. VAC. BREAKER & GRAVITY OUTLET. PROVIDE INLET BALL VALVE & ACCESS PANEL. SEE PLANS FOR NUMBER OF TRAPS SERVED.	

- NOTES:
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPECIFICATIONS AND LOCATIONS OF ALL APPLIANCES. PLUMBING FIXTURES AND FAUCETS. WHERE THERE IS A DISCREPANCY BETWEEN THE ENGINEERING AND ARCHITECTURAL DRAWINGS OF APPLIANCES AND FIXTURE SPECIFICATIONS. NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
 - ALL FIXTURES AND APPLIANCES SHALL BE APPROVED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
 - PLUMBING CONTRACTOR TO COORDINATE NUMBER OF REQUIRED HOLES FOR ALL SINKS BASED ON EQUIPMENT / ACCESSORIES SPECIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 - ALL FITTINGS AND FAUCETS TO BE USED SHALL BE IN COMPLIANCE WITH STATE ASSEMBLY BILL AB1953 (LEAD FREE)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023



ARCHITECT
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-546-5000
PBK Architects, Inc.
pbk.com

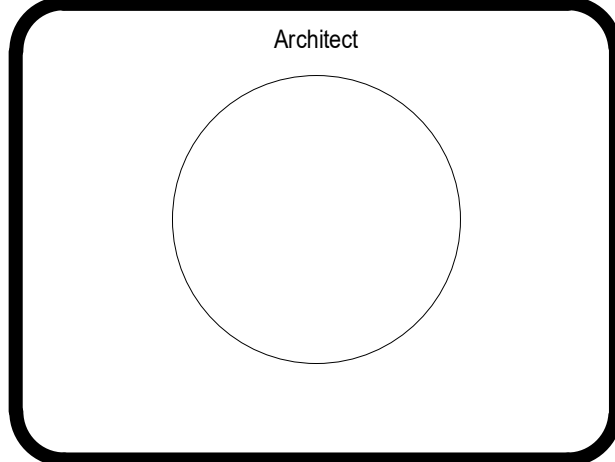
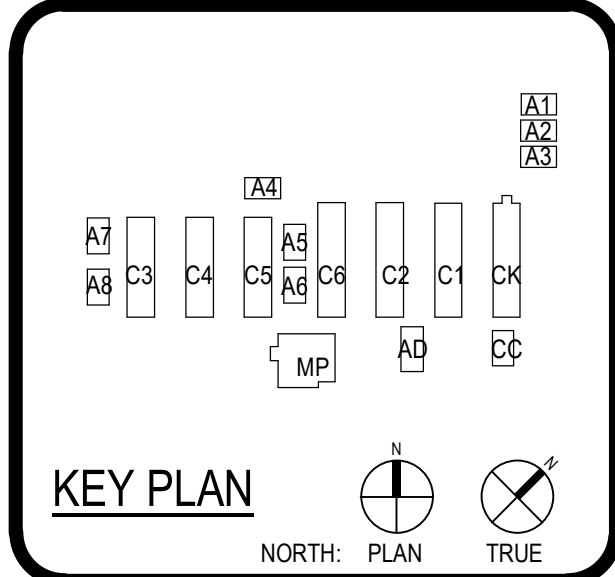
CONSULTANT
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909-957-0909
leafengineers.com

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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Westminster, CA 92683

DSA SUBMITTAL

DSA APPL. NO. 04-121817 DSA FILE NO. 30-43

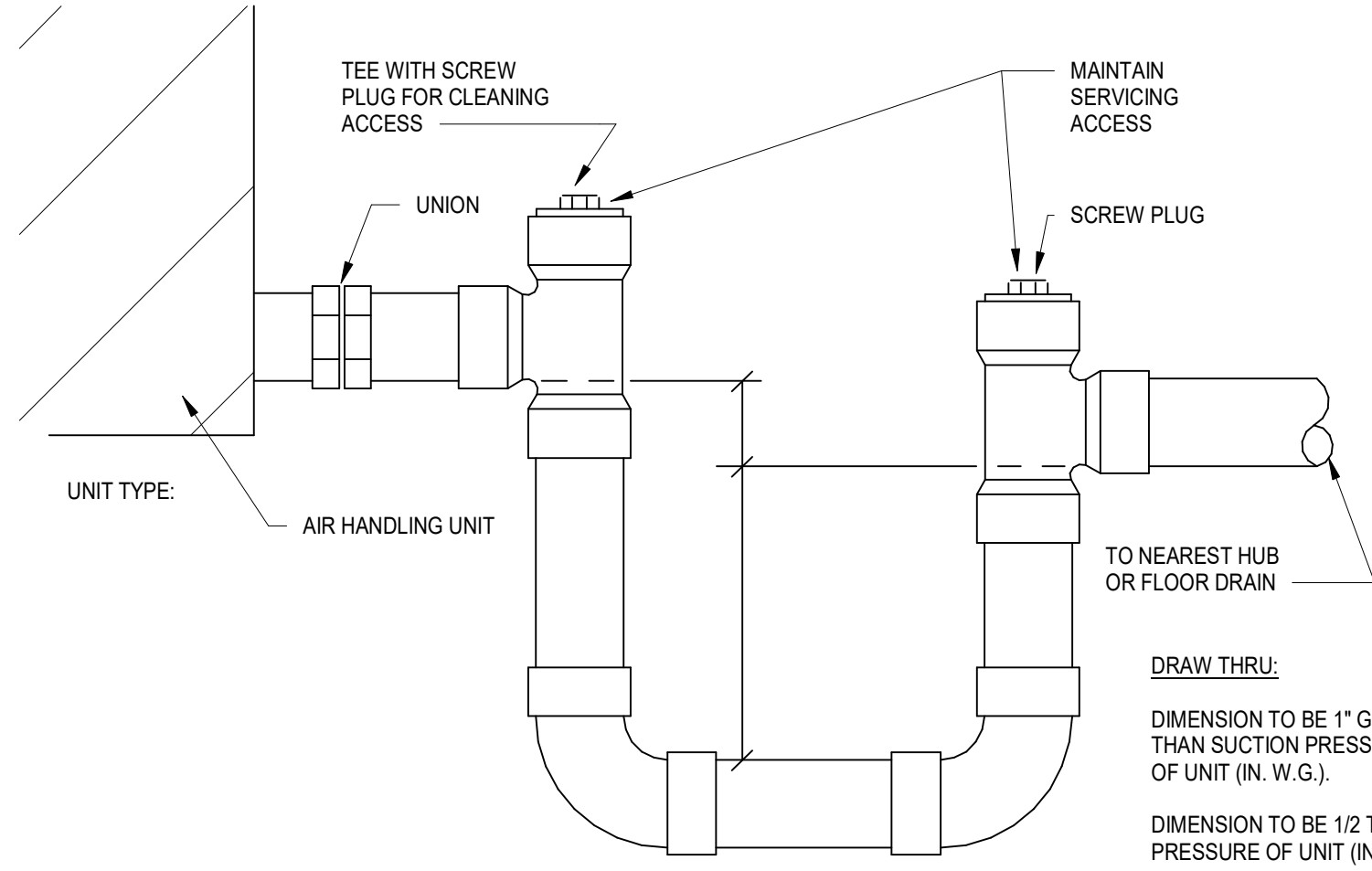


CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-29-2022	220308	
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

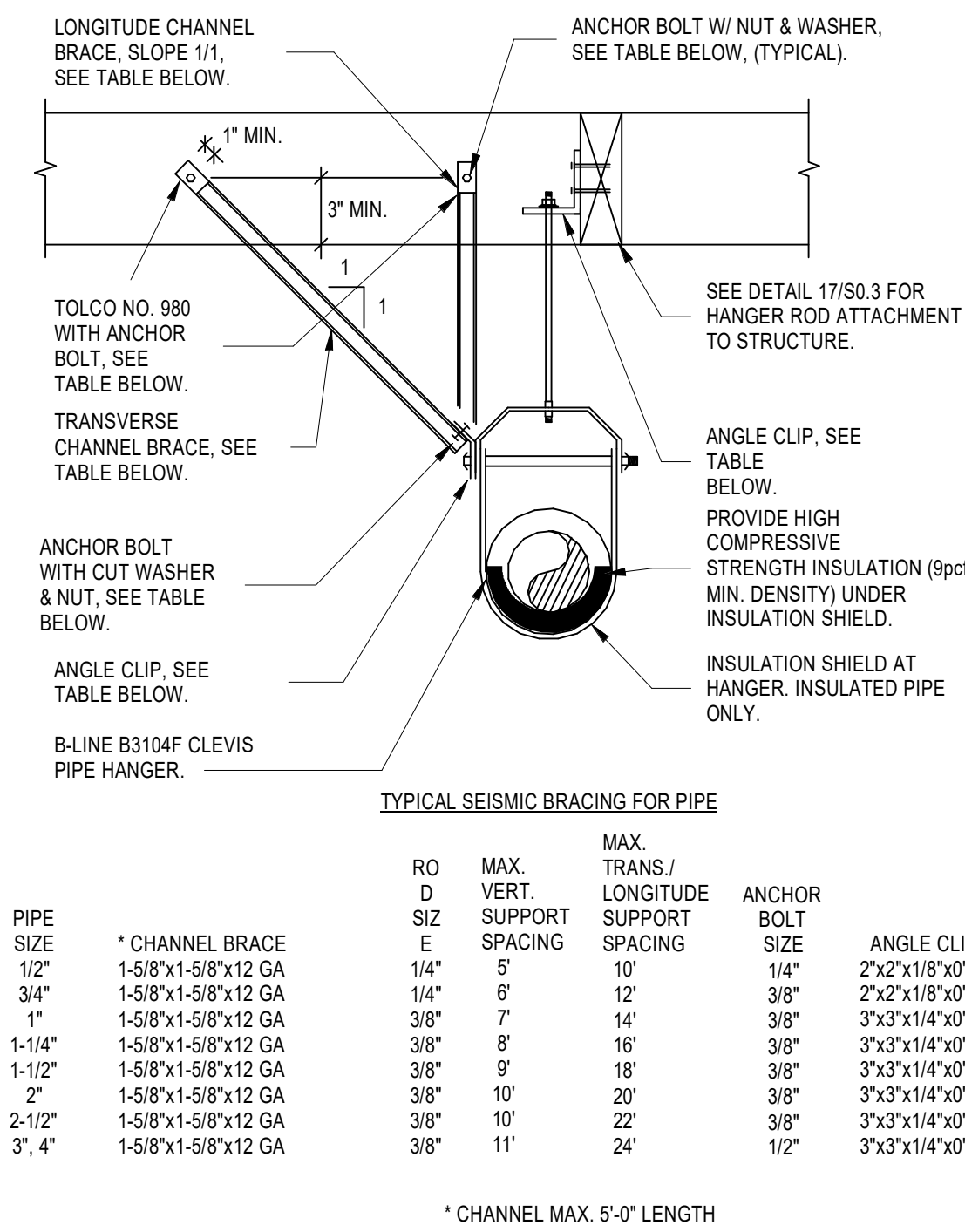
PLUMBING SCHEDULES

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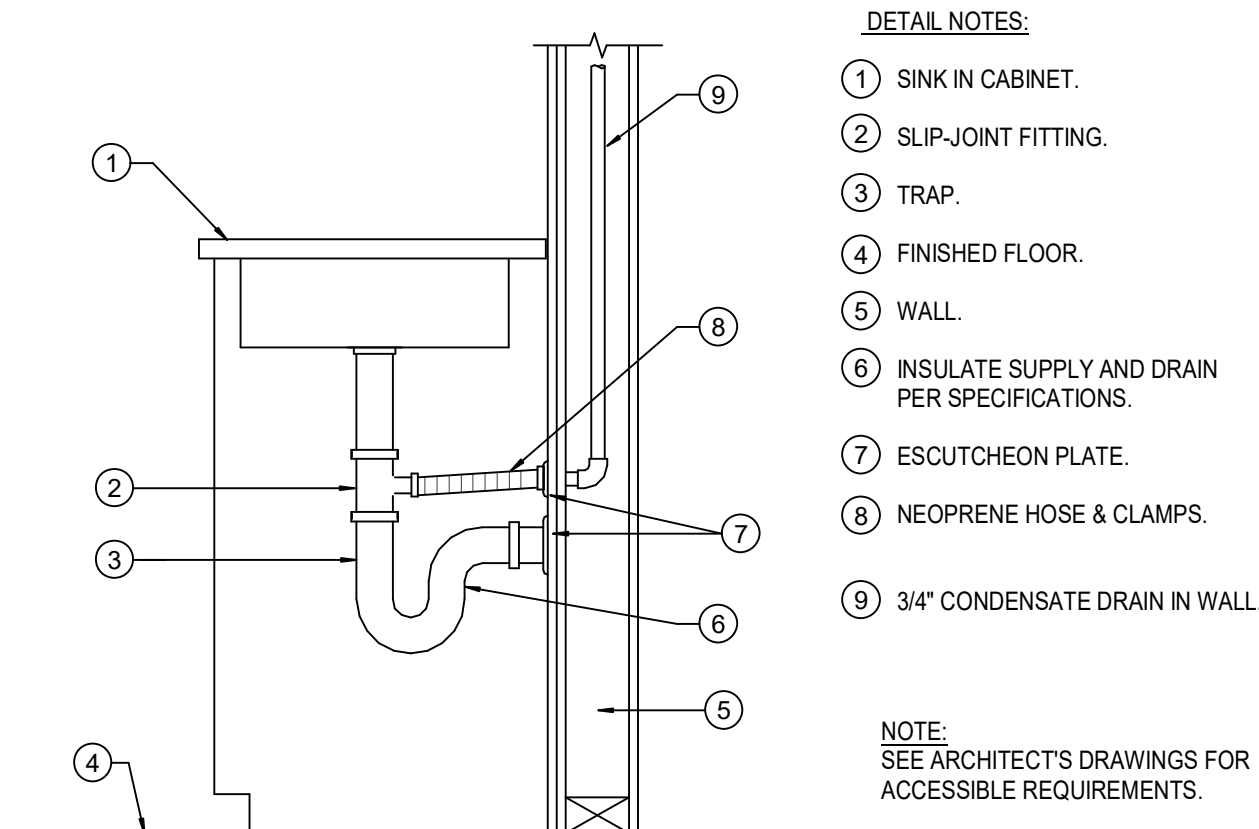
3 CONDENSATE TRAP PIPING DETAIL

12" = 1'-0"



2 PIPE SUPPORT DETAIL (WOOD STRUCTURE)

12" = 1'-0"



1 CONDENSATE TO TAILPIECE DETAIL

12" = 1'-0"

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PBK

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P 949-546-5000

CONSULTANT LEAF Engineers

LEAF
ENGINEERS

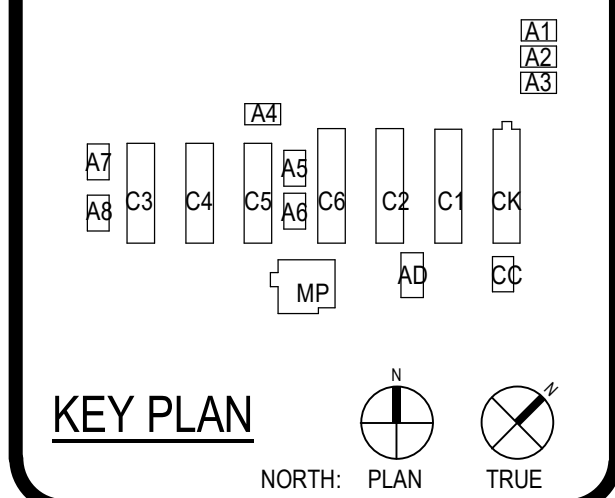
8163 Rochester Avenue, Suite 100
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909.987.0809
leafengineers.com

SCHMITT E.S. HVAC UPGRADE &
MODERNIZATION

PROJECT ADDRESS:
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DSA APP. NO. 04-121817 DSA FILE NO. 30-43



Consultant

REGISTERED PROFESSIONAL ENGINEER
No. 60515
Exp. 09-30-2024
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220308

















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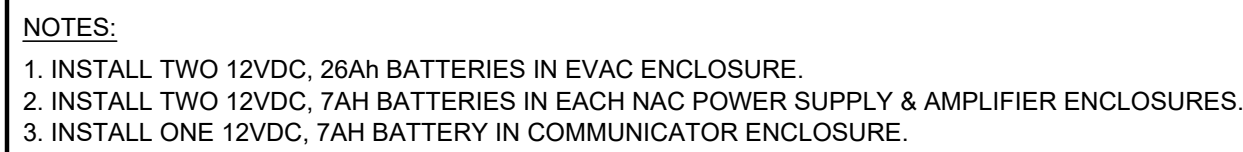
No.	Description	Date

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PLUMBING DETAILS

P6.1

SYM.	MODEL	MANUFACTURER	DESCRIPTION	MOUNTING	CSFM #
	IFP-2100ECS	FARENHYT	EMERGENCY VOICE/ALARM COMMUNICATION PANEL ECS-INT50W, INTERNAL 50 WATT AMPLIFIER 6815, SLC EXPANDER	WALL MOUNTED	7165-0559.0505 7300-0559.0176
	HWF2V-COM	HONEYWELL/ADECOM	CELLULAR FIRE ALARM COMMUNICATOR	WALL MOUNTED	7300-1645.0511
	ECS-50W	FARENHYT	SINGLE CHANNEL 50W, 25/70V AMPLIFIER	WALL MOUNTED	7165-0559.0505
	RPS-1000	FARENHYT	INTELLIGENT 6 AMP NAC POWER SUPPLY	WALL MOUNTED	7165-0559.0505
	SSU00636	SAE	FIRE ALARM TERMINAL CABINET	WALL MOUNTED	UL & NEMA LISTED
	IDP-MONITOR	FARENHYT	ADDRESSABLE INPUT MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-0559.0155
	IDP-RELAY	FARENHYT	ADDRESSABLE RELAY MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-0559.0155
	IDP-PHOTO-W B210LP	FARENHYT	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR HEAD 6" DETECTOR BASE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7272-0559.0149 7300-1653.0109
	IDP-HEAT-W B210LP	FARENHYT	ADDRESSABLE FIXED (135°F) HEAT SENSOR HEAD (F = FIXED, A = ATTIC) 6" DETECTOR BASE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7270-0559.0147 7300-1653.0109
	IDP-PULL-DA	FARENHYT	ADDRESSABLE DOUBLE ACTION MANUAL PULL STATION	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7150-0559.0157
	SRL	SYSTEM SENSOR	MULTI CANDELA STROBE, CEILING MOUNT-RED	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7125-1653.0504
	SPSRL	SYSTEM SENSOR	MULTI CANDELA TEMPORAL SPEAKER STROBE, CEILING MOUNT-RED	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7320-1653.0505
	SPRK	SYSTEM SENSOR	WEATHER PROOF SPEAKER, WALL MOUNT-RED	WBB BACK BOX IS INCLUDED	7320-1653.0201
	SSU00672	SAE	FIRE DOCUMENT BOX-RED	WALL MOUNT @ FACP	UL LISTED
	DTK-120HWLOK	DITEK	120VAC SURGE PROTECTOR	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-2105.0102
	TBD	TBD	ELECTRICAL JUNCTION BOX (SIZES WILL VARY)	TBD	UL LISTED
****	PS-12260VdS	POWER SONIC	12VDC, 26AH RECHARGEABLE SEALED LEAD ACID BATTERY	INSTALL IN EVAC ENCLOSURE	UL LISTED
****	PS-1270	POWER SONIC	12VDC, 7AH RECHARGEABLE SEALED LEAD ACID BATTERY	INSTALL IN POWER SUPPLY, AMPLIFIER & FAC ENCLOSURES	UL LISTED



TAG	COND.	TYPE	AWG	DESCRIPTION	USE
A	2	SOLID	18	#182, RED JACKET, FPLP	SIGNAL LINE CIRCUIT (SLC)
Au	2	STRANDED	18	#182, RED JACKET (FIRE UNDERGROUND RATED)	SIGNAL LINE CIRCUIT (SLC)- UNDERGROUND
B	2	SOLID	16	#162, RED JACKET, FPLP	SBUS
Bu	2	STRANDED	16	#16 THWN RED(+ BLACK-), JACKET (FIRE UNDERGROUND RATED)	SBUS - UNDERGROUND
H	2	SOLID	16	#162, RED JACKET, FPLP	INDICATING CIRCUIT (IC)
Hu	2	STRANDED	16	#16 THWN RED(+ BLACK-), JACKET (FIRE UNDERGROUND RATED)	INDICATING CIRCUIT (IC)- UNDERGROUND
N	2	SOLID	12	#122, RED JACKET, FPLP	NOTIFICATION APPLIANCE CIRCUIT
Nu	2	STRANDED	12	#12, THWN, RED (+ BLACK -) WHEN USED IN CONDUIT	NOTIFICATION APPLIANCE CIRCUIT - UNDERGROUND
S	2	STRANDED	16	#162, OVERALL SHIELDED CLASS 2 CABLE	SPEAKER CIRCUIT
Su	2	STRANDED	16	#162- OVERALL SHIELDED C2 CABLE (UNDERGROUND RATE)	SPEAKER CIRCUIT - UNDERGROUND

NOTES:

1. ALL SIGNAL LINE CIRCUITS (SLC) ARE TO BE CLASS "B", STYLE "Y".
2. ALL NOTIFICATION APPLIANCE CIRCUITS (NAC) ARE TO BE CLASS "B", STYLE "Y".



FIRE ALARM SYSTEM APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017 *

2002 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR *
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR *
2015 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR *
2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR *
2015 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR *
2015 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR *
2019 CALIFORNIA FIRE CODE (CFC), PART 7, TITLE 24 CCR *
2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR *
2015 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR *
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR PART 19: CCR PUBLIC SAFETY
STATE FIRE MARSHAL REGISTRY
2016 ASME A17.1/CSA B44-1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED): 2016 EDITION
NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING DEVICES: 2015 EDITION
UL 464 AUDIO SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES: 2003 EDITION
UL 1971 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS: 1989 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED: 2002 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CFC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

- * ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2017 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 6.6) WHICH REMAINS EFFECTIVE 2019. FOR THE 2019 CALIFORNIA FIRE CODE, SEE THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 1) AS JANUARY 20, 2016.

FIRE ALARM SHEET INDEX	
SHEET #	SHEET DESCRIPTION
FA0.00	FIRE ALARM COVER SHEET
FA1.00	FIRE ALARM SITE PLAN
FA1.01	FIRE ALARM FLOOR PLAN: ADMINISTRATION/KINDERGARTEN & BUILDING "A"
FA1.02	FIRE ALARM FLOOR PLAN: BUILDING "B" AND "C"
FA1.03	FIRE ALARM FLOOR PLAN: RELO CLASSROOMS
FA1.04	FIRE ALARM FLOOR PLAN: MULTI-PURPOSE ROOM
FA2.00	FIRE ALARM RISER DIAGRAM
FA3.00	FIRE ALARM CALCULATIONS
FA4.00	FIRE ALARM DETAILS

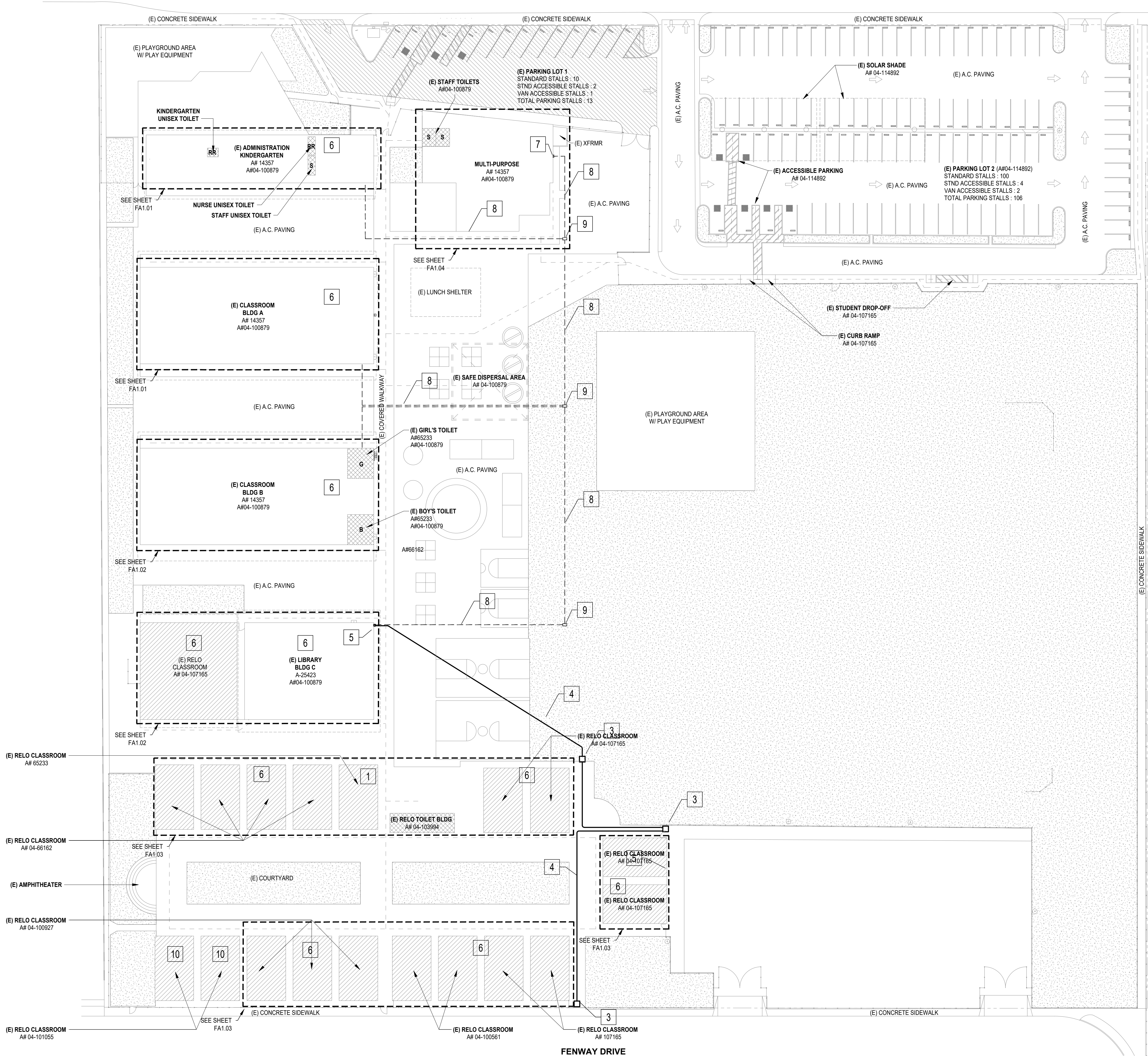
ADDITIONAL/SPECIAL NOTES	
1.	BIG ASS FANS IN MPR ARE EXISTING.
2.	ALL RELOCATEABLE BUILDINGS ARE EXISTING.

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1 FIRE ALARM OVERALL SITE PLAN

SCALE: 1" = 30'-0"



FIRE ALARM SHEET NOTES

- EXISTING FIRE-LITE FACP LOCATED IN PORTABLE 1".
- EXISTING EXTERIOR NOTIFICATION APPLIANCE.
- EXISTING UNDERGROUND PULL BOX.
- EXISTING UNDERGROUND CONDUIT. CONTRACTOR TO FIELD VERIFY CONDITION OF EXISTING CONDUIT FOR SERVICEABILITY PRIOR TO CONSTRUCTION.
- EXISTING NOTIFICATION APPLIANCES POWER SUPPLY.
- ALL EXISTING FIRE ALARM DEVICES ARE TO BE REMOVED (DEMOT) FROM ALL BUILDINGS AND REPLACED WITH NEW DEVICES. WIRE AND CONDUIT WHERE APPLICABLE.
- NEW EXTERIOR WEATHERPROOF ENCLOSURE.
- NEW UNDERGROUND CONDUIT SYSTEM. ROUTE ALL NEW FIRE ALARM WIRING IN NEW UNDERGROUND CONDUIT SYSTEM FROM BUILDING TO BUILDING.
- NEW IN-GROUND PULL BOX.
- NOT IN THIS SCOPE OF WORK.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK

ARCHITECT PBK Architects, Inc.
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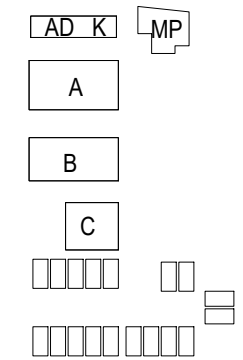


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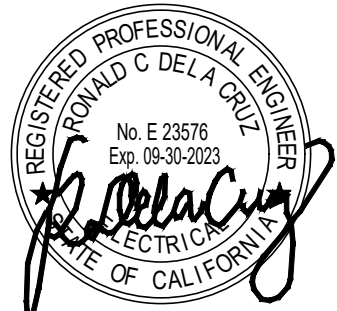
PROJECT ADDRESS:
14142 Hoover St.
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DSA APPL. NO. 04-121817 DSA FILE NO. 30-43

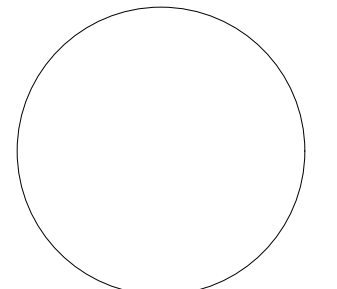


NORTH: PLAN

Consultant



Architect



CLIENT

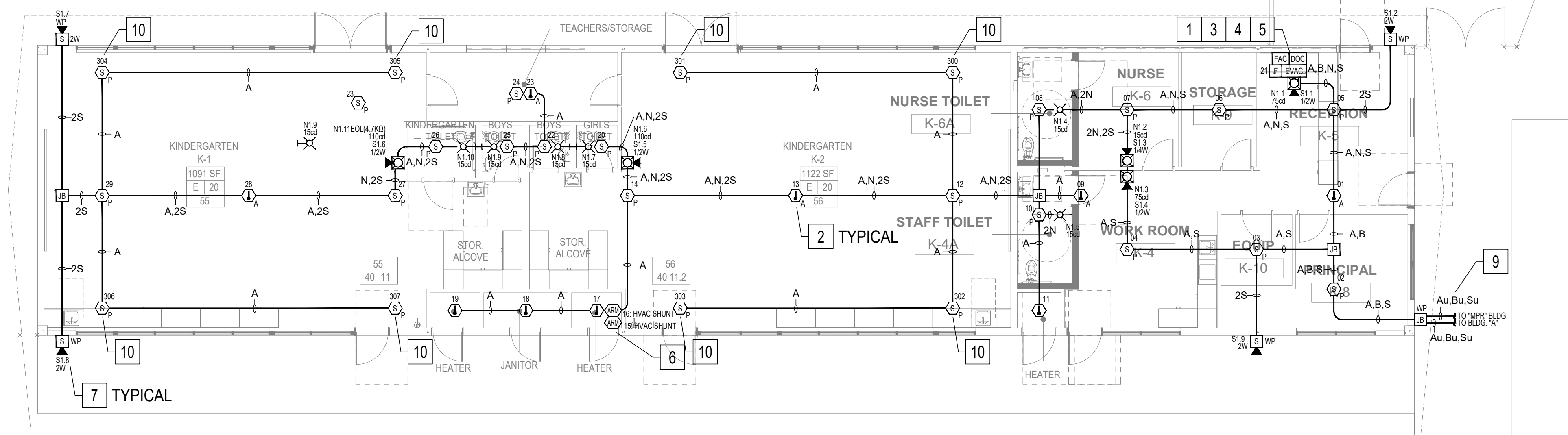
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DATE 12-28-2022 PROJECT NUMBER 220308

REVISIONS		
No.	Description	Date

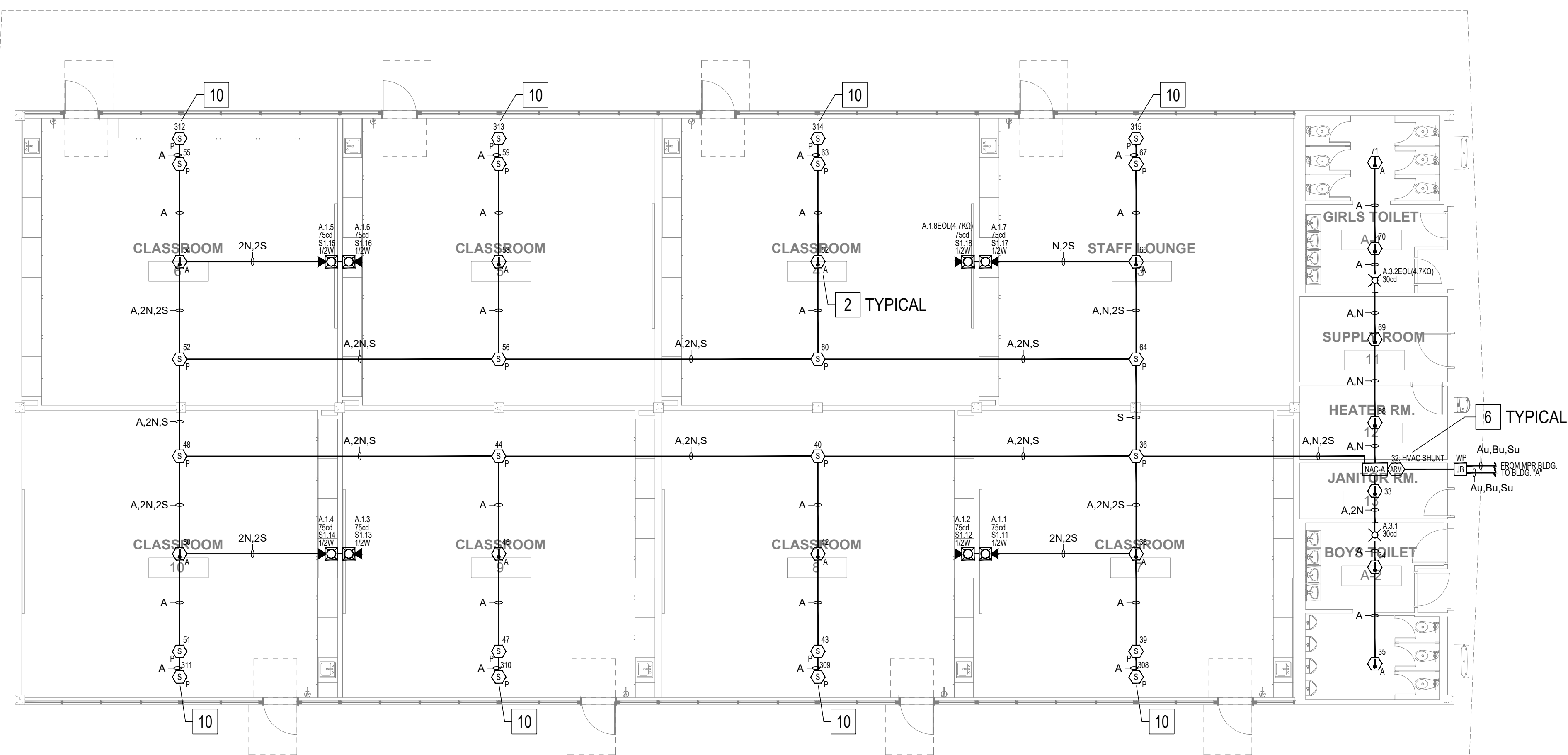
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FIRE ALARM SITE
PLAN

FA1.00



1 FIRE ALARM FLOOR PLAN: ADMINISTRATION/KINDERGARTEN BUILDING
SCALE: 1/8" = 1'-00"



2 FIRE ALARM FLOOR PLAN: BUILDING "A"
SCALE: 1/8" = 1'-00"

FIRE ALARM SHEET NOTES	
1	INSTALL NEW EMERGENCY VOICE/ALARM COMMUNICATION PANEL WITH MICROPHONE IN FRONT OFFICE. FIELD VERIFY EXISTING LOCATION PRIOR TO ROUGH IN.
2	INSTALL HEAT DETECTION IN ALL ABOVE CEILING SPACES. FIELD VERIFY ALL WALLS THAT ARE FULL HEIGHT WALLS AND ADD ADDITIONAL DETECTION AS REQUIRED.
3	INSTALL NEW CELLULAR COMMUNICATOR AT EVAC LOCATION. FIELD VERIFY AND COORDINATE WITH STAFF FOR EXACT LOCATION.
4	INSTALL NEW FIRE ALARM DOCUMENT ENCLOSURE AT EVAC LOCATION. FIELD VERIFY AND COORDINATE WITH STAFF FOR EXACT LOCATION.
5	INSTALL ONE (1) MANUAL PULL STATION AT MAIN EVAC PANEL IN ACCORDANCE WITH DSA GL-2 §12.4, NFPA 72 AND CFC §907.
6	INSTALL ADDRESSABLE RELAY MODULE(S) FOR HVAC UNIT SHUNT. UPON DETECTION ALL HVAC UNITS ARE TO SHUNT TO STOP AIR FLOW. (REFERENCE CMC §608.1 EXCEPTION 1.)
7	EXTERIOR AUDIO APPLIANCES ARE MOUNTED IN EVERY OTHER HALL/CORRIDOR AS TO PROVIDE UNINTERRUPTIBILITY. (REFERENCE NFPA 72 §18.4.1.5 & §18.4.10.)
8	INSTALL COMBINATION SMOKE/CARBON MONOXIDE DETECTORS IN ALL CLASSROOMS THAT ARE SERVICED BY A NATURAL GAS OR FUEL BASED HVAC SYSTEM IN ACCORDANCE WITH CFC §915.
9	NEW UNDERGROUND CONDUIT SYSTEM BY ELECTRICAL. REFER TO FA SITE PLAN OR ELECTRICAL SITE PLAN FOR NEW CONDUIT SYSTEM LOCATION.
10	INSTALL SMOKE DETECTION IN IRREGULAR SPACE IN ACCORDANCE WITH NFPA 72, CHAPTER 17 AND ANNEX "A". REFERENCE SHEET AA.01 DETAILS.

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CONSULTANT	LEAF Engineers
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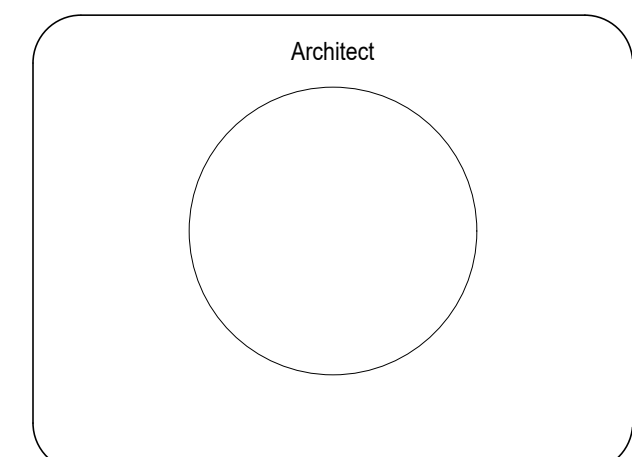
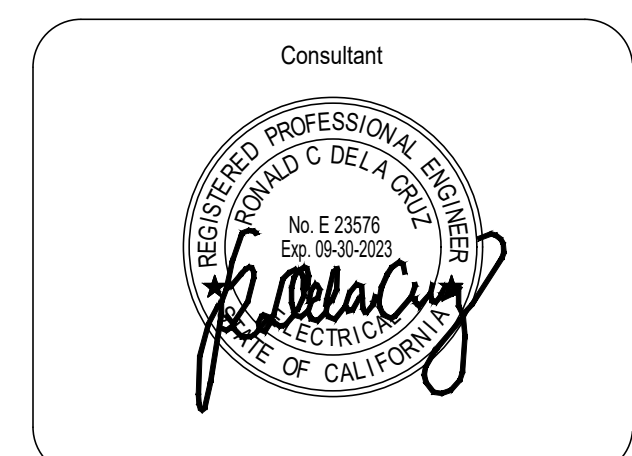
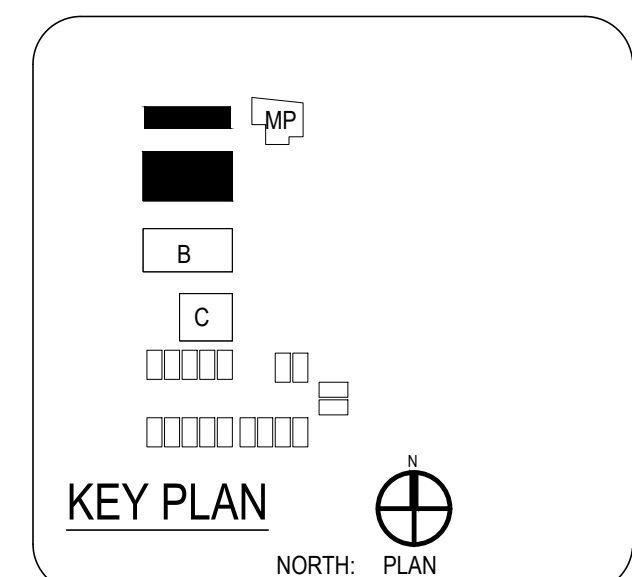
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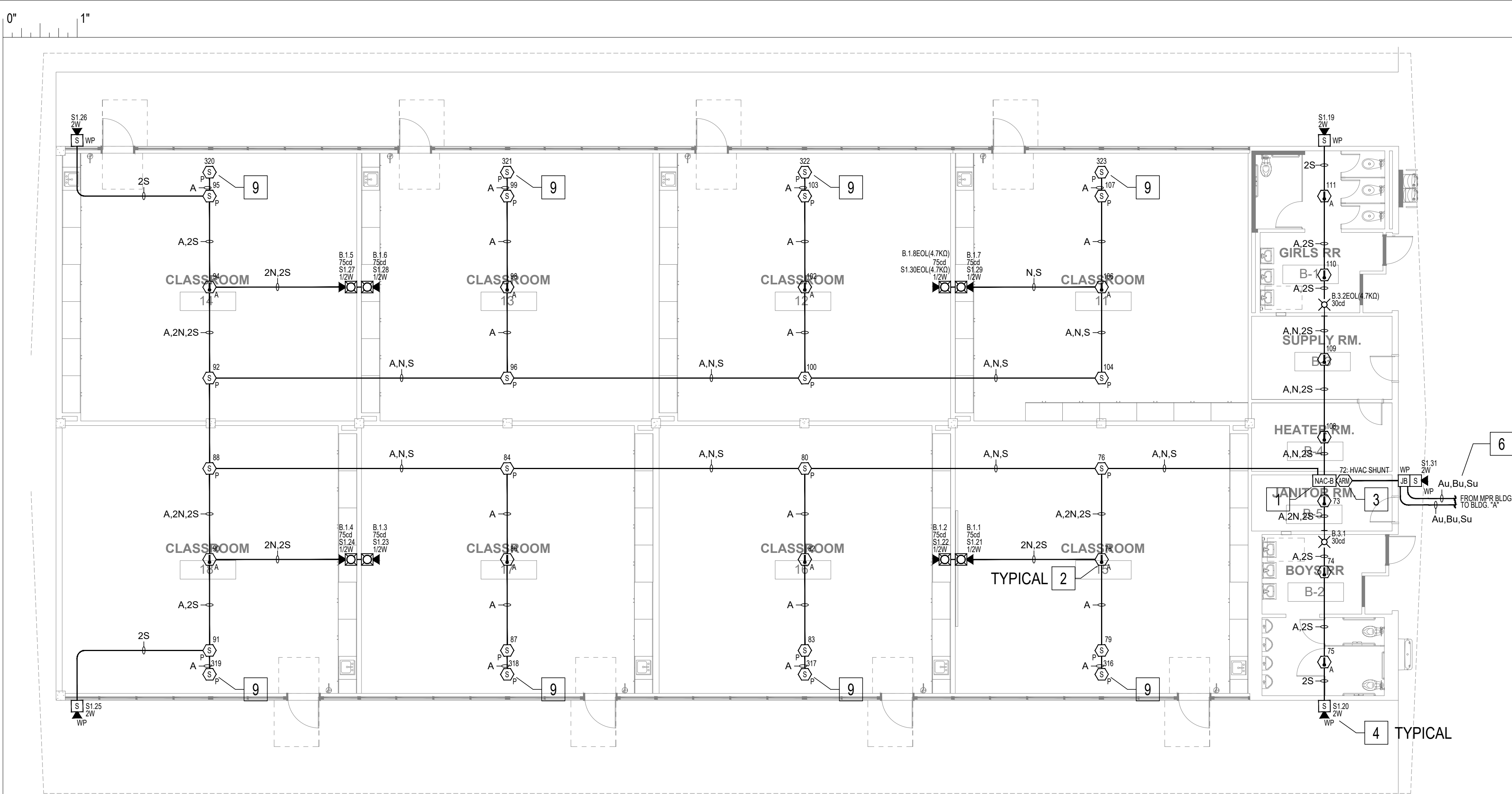
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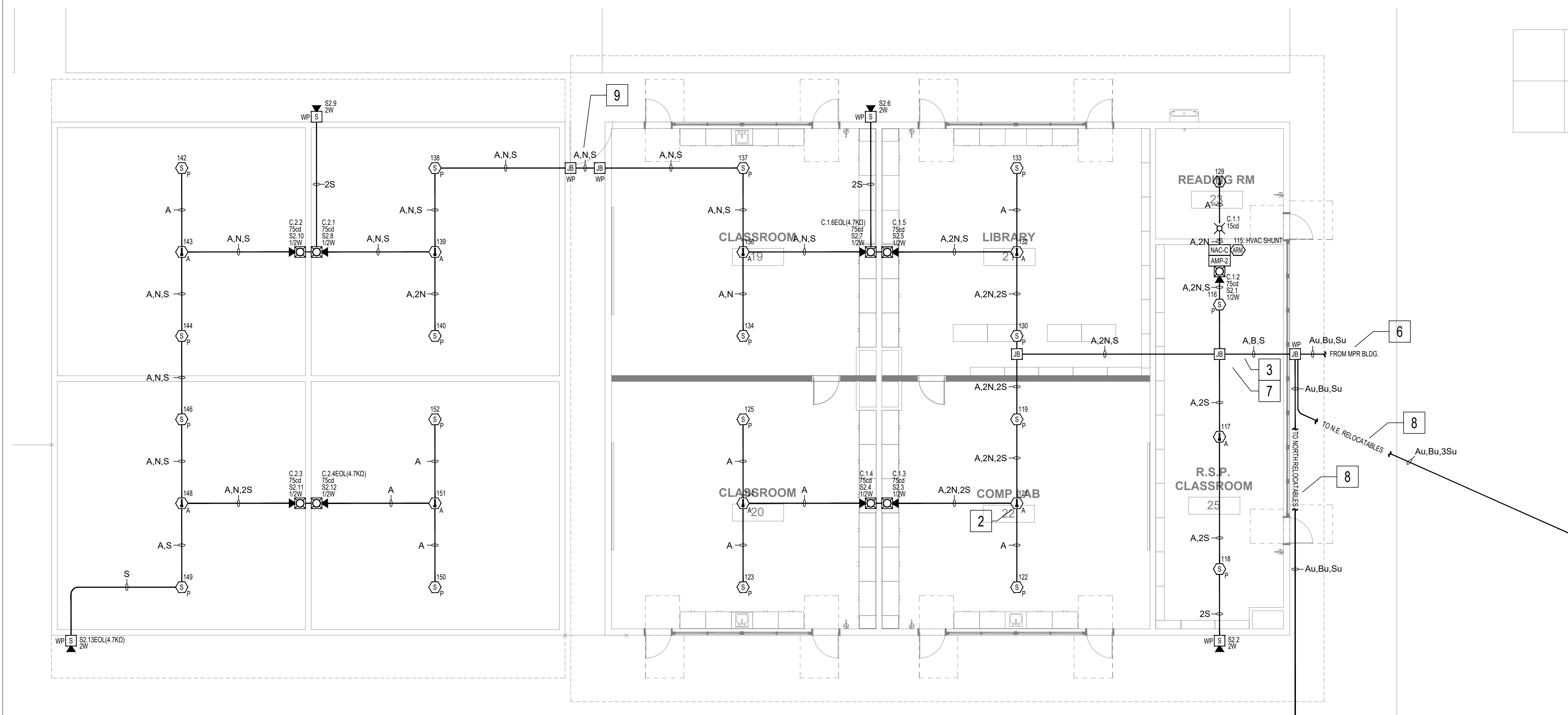
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**FIRE ALARM FLOOR
PLAN:
ADMINISTRATION &
BLDG. "A"**

FA1.01



1 FIRE ALARM FLOOR PLAN: BUILDING "B"
SCALE: 1/8" = 1'-00"



2 FIRE ALARM FLOOR PLAN: BUILDING "C" & "P"
SCALE: 1/8" = 1'-00"

FIRE ALARM SHEET NOTES	
1	INSTALL NEW NOTIFICATION APPLIANCE POWER SUPPLY. FIELD VERIFY LOCATION PRIOR TO ROUGH IN.
2	INSTALL HEAT DETECTION IN ALL ABOVE CEILING SPACES. FIELD VERIFY ALL WALLS THAT ARE FULL HEIGHT WALLS AND ADD ADDITIONAL DETECTION AS REQUIRED.
3	INSTALL ADDRESSABLE RELAY MODULE FOR HVAC UNIT SHUNT. UPON DETECTION ALL HVAC UNITS ARE TO SHUNT TO STOP AIR FLOW. (REFERENCE CMC §608.1 EXCEPTION 1.)
4	EXTERIOR AUDIO APPLIANCES ARE MOUNTED IN EVERY OTHER HALL/CORRIDOR TO PREVENT UNINTELLIGIBILITY. (REFERENCE NFPA 72 §18.4.1.5' & §18.4.10')
5	INSTALL COMBINATION SMOKE/CARBON MONOXIDE DETECTORS IN ALL CLASSROOMS THAT ARE SERVICED BY A NATURAL GAS OR FUEL BASED HVAC SYSTEM IN ACCORDANCE WITH CFC §915.
6	INSTALL ALL NEW FIRE ALARM WIRING BETWEEN BUILDINGS IN NEW CONDUIT SYSTEM. FIELD VERIFY LOCATION OF NEW CONDUIT PRIOR TO INSTALLATION. REFER TO F/A AND ELECTRICAL SITE PLAN FOR NEW UNDERGROUND CONDUIT LOCATION(S).
7	INSTALL NEW AUDIO AMPLIFIER IN BLDG. "C". INSTALL AUDIO ZONE EXPANDER (FOUR (4) ZONE/CKT) AND 6815 SLC ZONE EXPANDER IN AMPLIFIER ENCLOSURE.
8	INSTALL ALL FA CIRCUITS IN EXISTING CONDUIT FROM BUILDING "C" TO EAST AND SOUTH RELO BUILDINGS. FIELD VERIFY CONDUIT AVAILABILITY PRIOR TO ROUGH IN. REFER TO SITE PLAN FOR EXISTING CONDUIT AND PULL BOX LOCATIONS.
9	FIELD VERIFY CONDITION OF EXISTING ROUTE BETWEEN BUILDINGS. REPLACE ROUTE CONDUIT, HANGERS AND BOXES IF NEEDED.
10	INSTALL SMOKE DETECTION IN IRREGULAR SPACE IN ACCORDANCE WITH NFPA 72, CHAPTER 17 AND ANNEX "A". REFERENCE SHEET A4.01 DETAILS.

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PROJECT ADDRESS:
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Westminster, CA 92683
DSA SUBMITTAL
DSA APPL. NO. 04-121817 DSA FILE NO. 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER
FORWARD C. DELA CRUZ
No. E 23578
Exp. 06-30-2025
ELECTRICAL
STATE OF CALIFORNIA

Architect

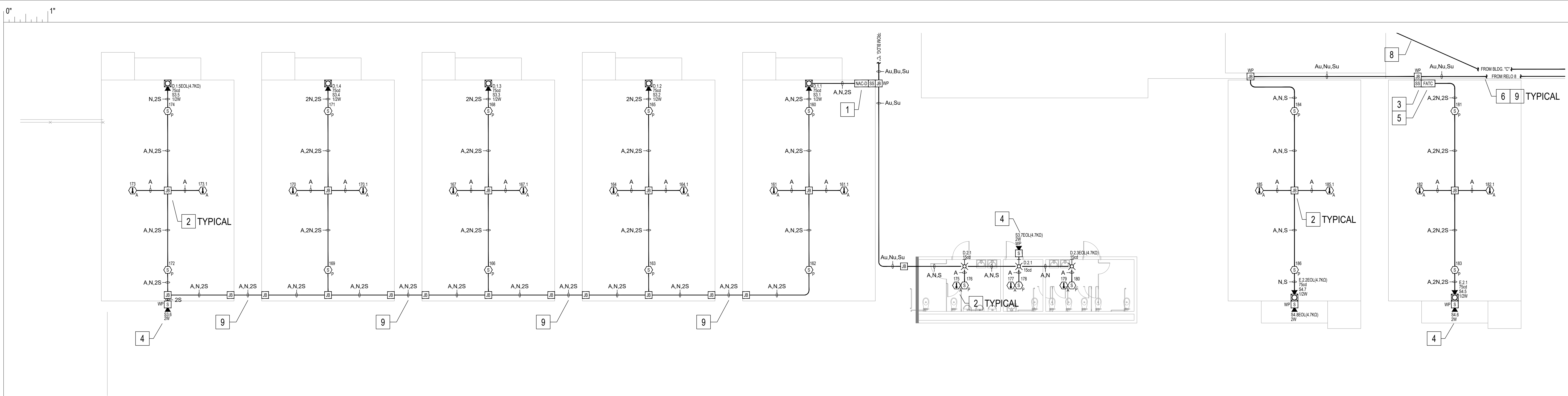
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WESTMINSTER SCHOOL DISTRICT
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12-28-2022
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No. Description Date

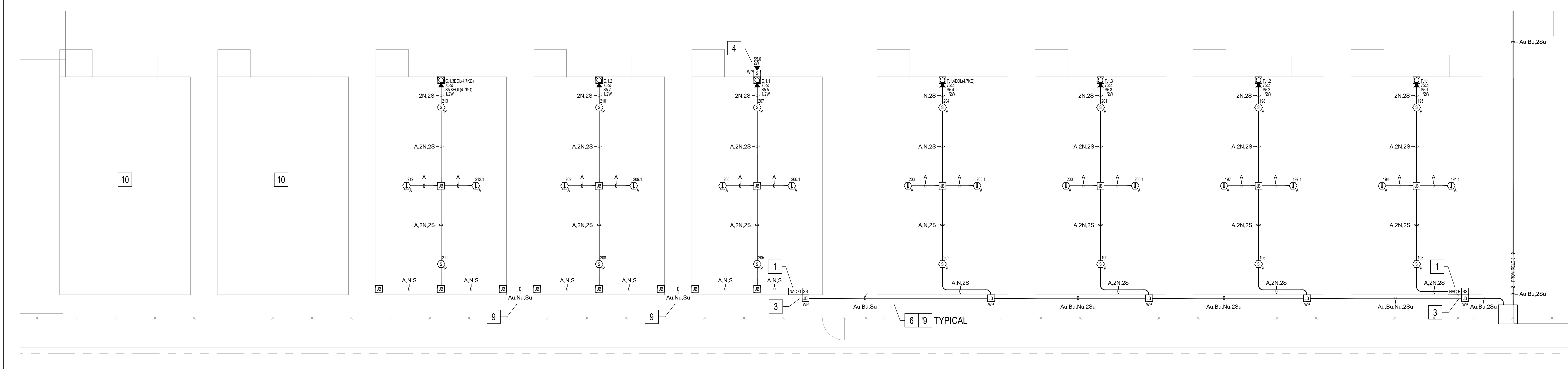
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FIRE ALARM FLOOR PLAN: BUILDINGS "B" & "C"

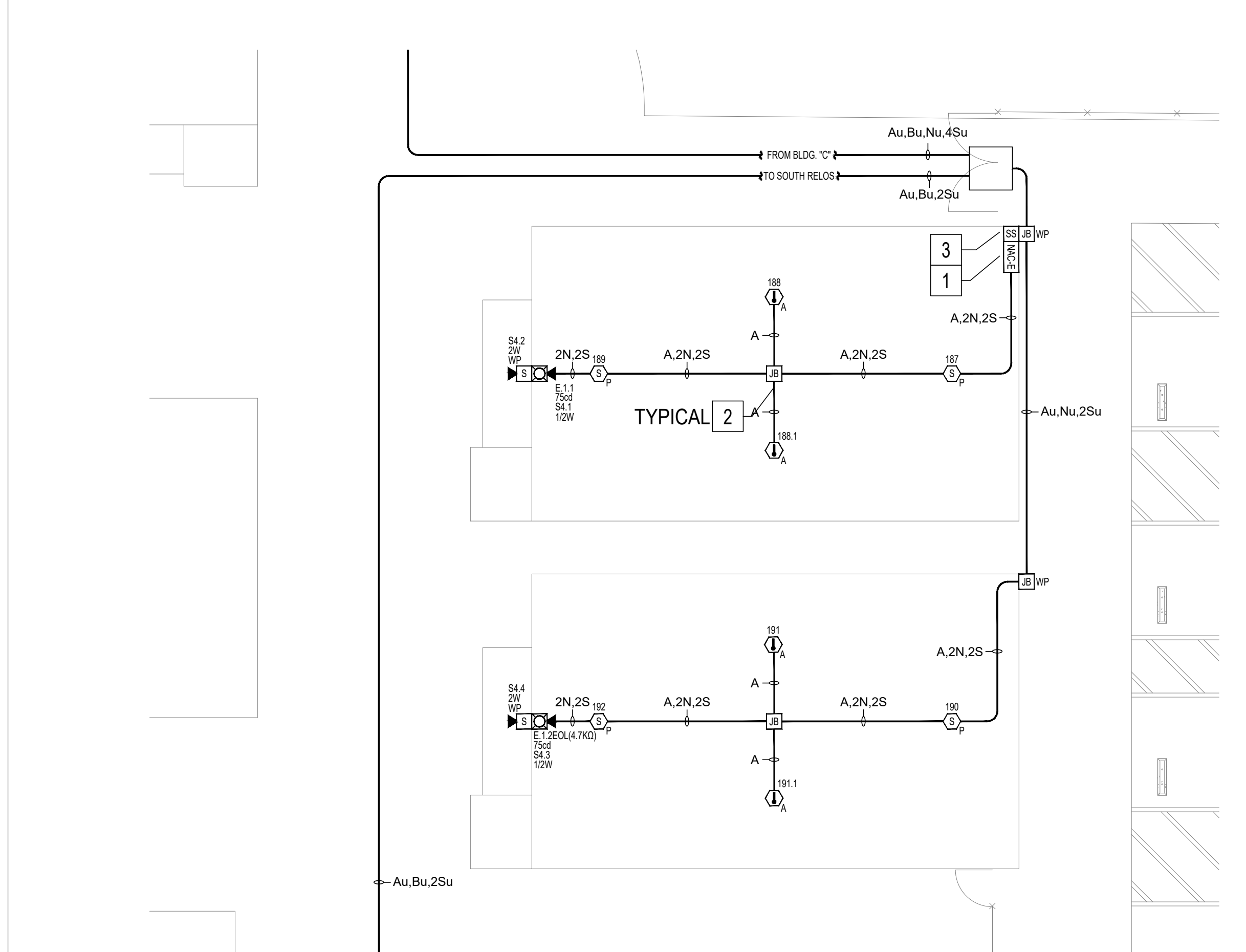
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1	FIRE ALARM FLOOR PLAN: NORTH RELO CLASSROOMS & RESTROOM SCALE: 1/8" = 1'-00"
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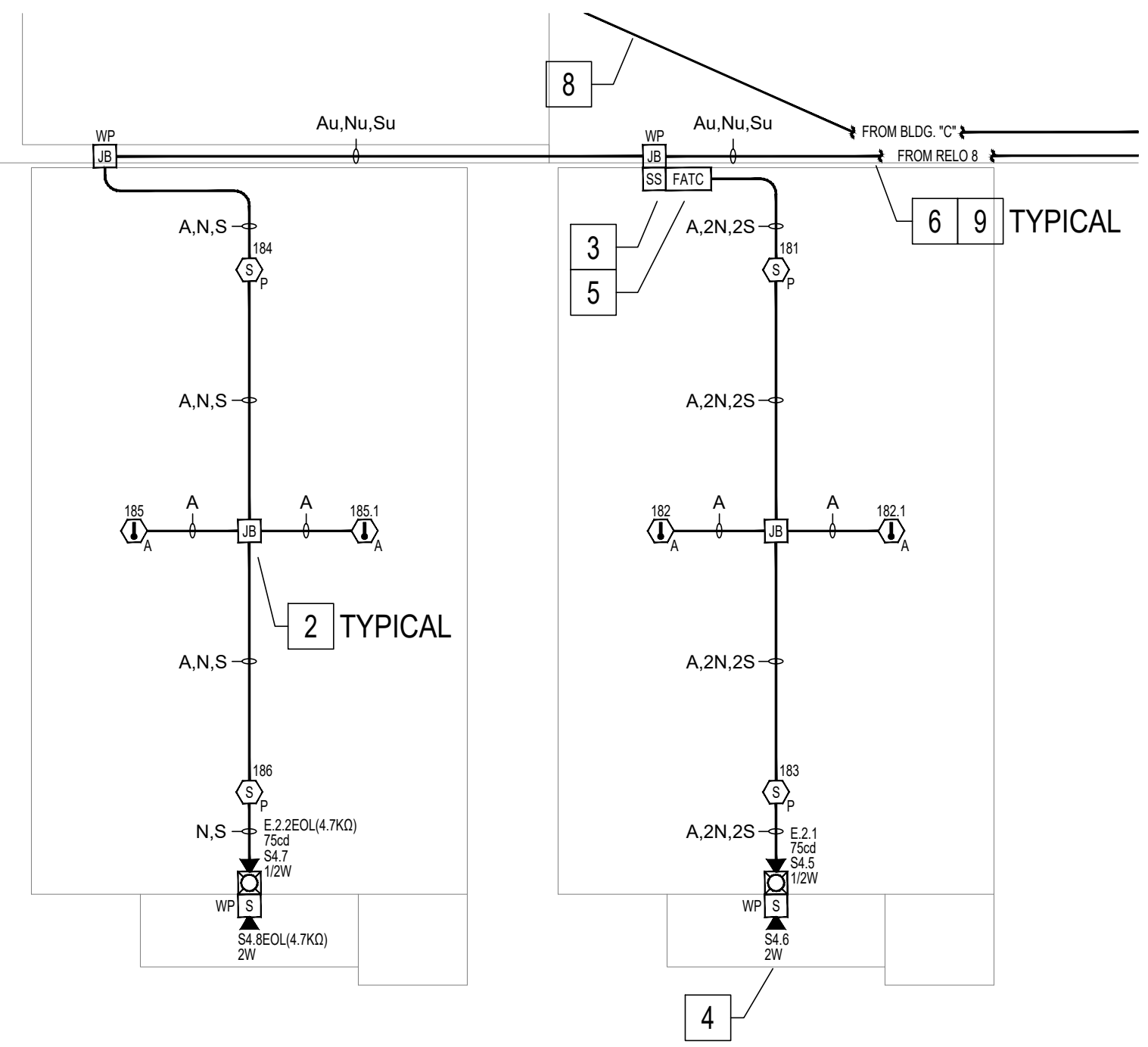
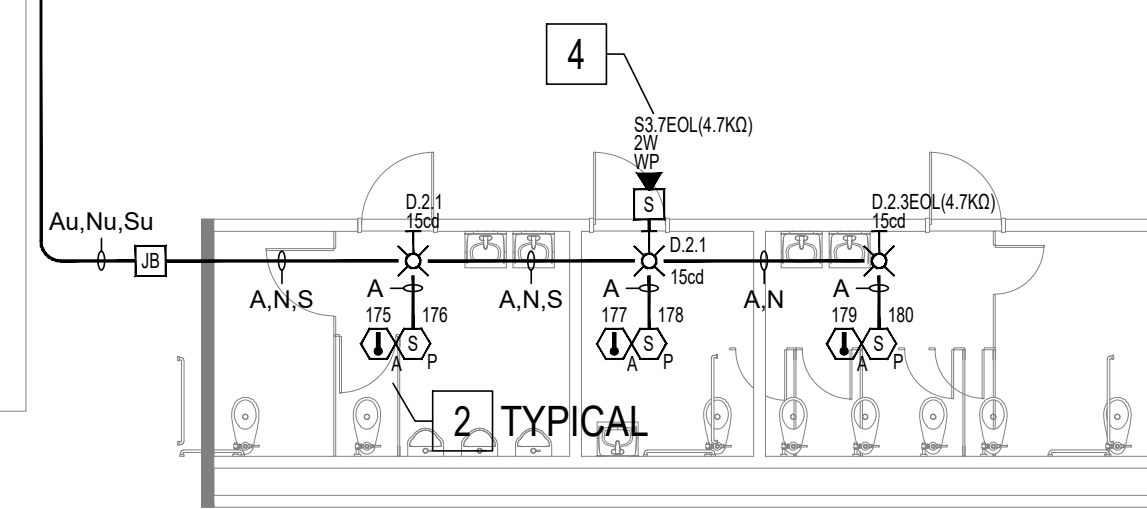


2	FIRE ALARM FLOOR PLAN: SOUTH RELO CLASSROOMS SCALE: 1/8" = 1'-00"
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3 FIRE ALARM FLOOR PLAN: EAST RELO CLASSROOMS

SCALE: 1/8" = 1'-00"



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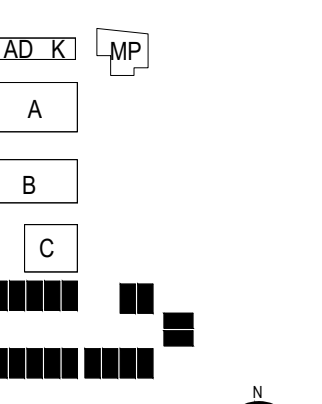
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Westminster, CA 92683

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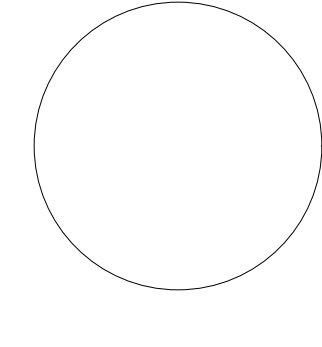


NORTH: PLAN

Consultant



Architect



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WESTMINSTER SCHOOL DISTRICT	
DATE 12-28-2022	PROJECT NUMBER 220308

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No.	Description	Date

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FIRE ALARM FLOOR

FIRE ALARM FLOOR PLAN, B1C

PLAN: RELO

CLASSROOMS

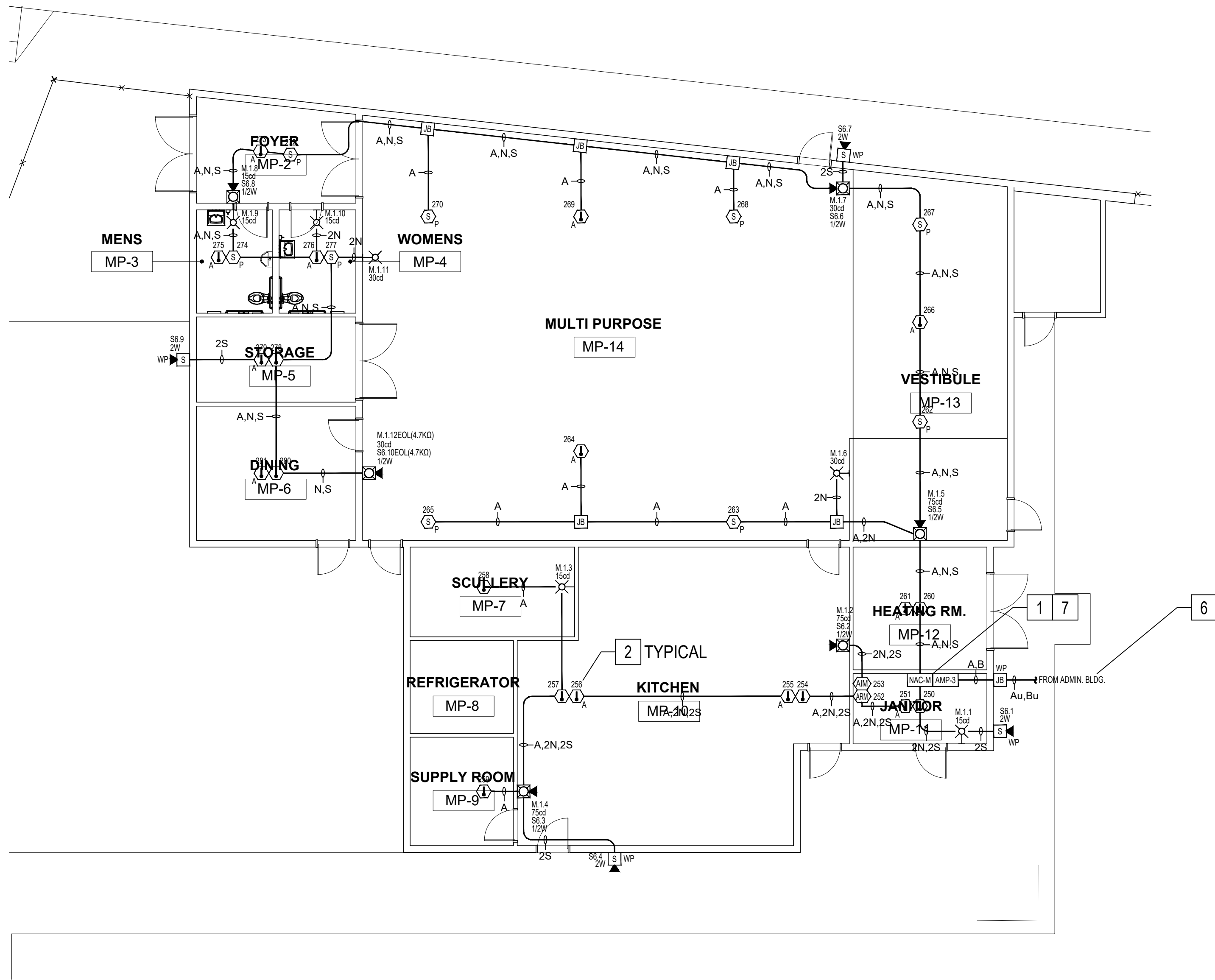
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FA 1.00

FA103

PA1.00

1 FIRE ALARM FLOOR PLAN: MULTI-PURPOSE ROOM
SCALE: 1/8" = 1'-00"



FIRE ALARM SHEET NOTES

- 1INSTALL NEW NOTIFICATION APPLIANCE POWER SUPPLY AND AMPLIFIER. FIELD VERIFY LOCATION PRIOR TO ROUGH IN.
- 2INSTALL HEAT DETECTION IN ALL ABOVE CEILING SPACES. FIELD VERIFY ALL WALLS THAT ARE FULL HEIGHT WALLS AND ADD ADDITIONAL DETECTION AS REQUIRED.
- 3INSTALL SURGE PROTECTION IN ACCORDANCE WITH NFPA 72 AND CEC.
- 4EXTERIOR AUDIO APPLIANCES ARE LOCATED IN THE COURTYARD AREA IN A MANNER TO PREVENT UNINTELLIGIBILITY. (REFERENCE NFPA 72 §18.4.1.5' & §18.4.10')
- 5INSTALL FIRE ALARM TERMINAL CABINET (FATC) FOR FIRE ALARM CONNECTION AND CONTINUATION.
- 6INSTALL ALL NEW FIRE ALARM WIRING BETWEEN BUILDINGS IN NEW CONDUIT SYSTEM. FIELD VERIFY LOCATION OF NEW CONDUIT PRIOR TO INSTALLATION. REFER TO F/A AND ELECTRICAL SITE PLAN FOR NEW UNDERGROUND CONDUIT LOCATION(S).
- 7INSTALL NEW AUDIO AMPLIFIER IN MPR BLDG. INSTALL AUDIO ZONE EXPANDER (FOUR (4) ZONE/CKT) AND 6815 SLC ZONE EXPANDER IN AMPLIFIER ENCLOSURE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023



ARCHITECT
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-546-5000
PBK.com

CONSULTANT
LEAF Engineers

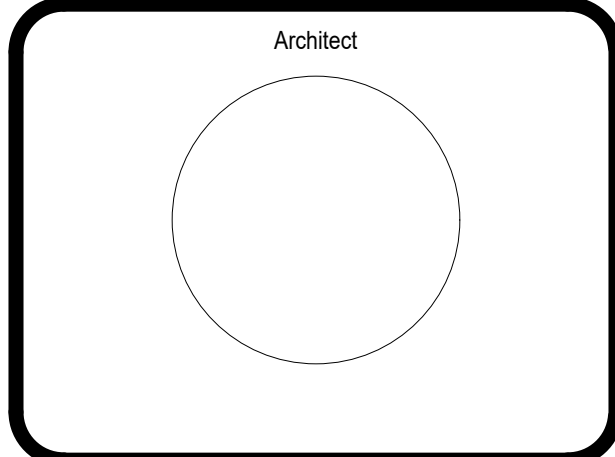
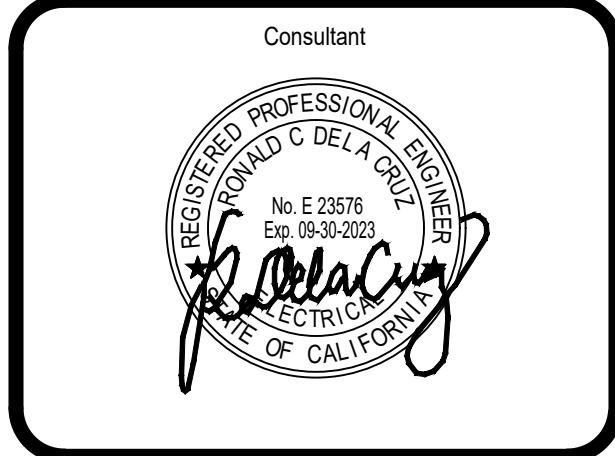
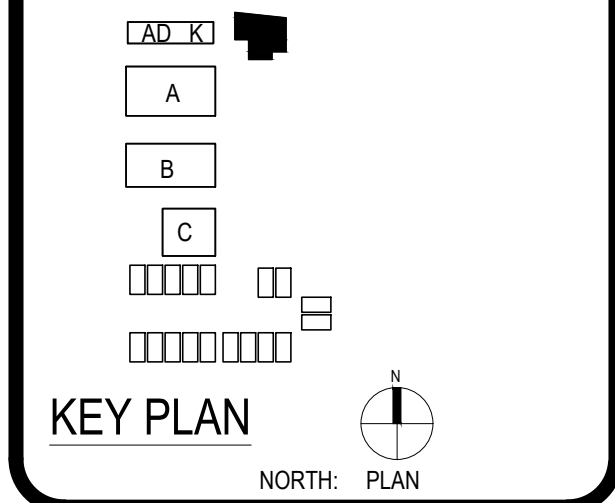
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987-0909
leafengineers.com

SCHMITT E.S. HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

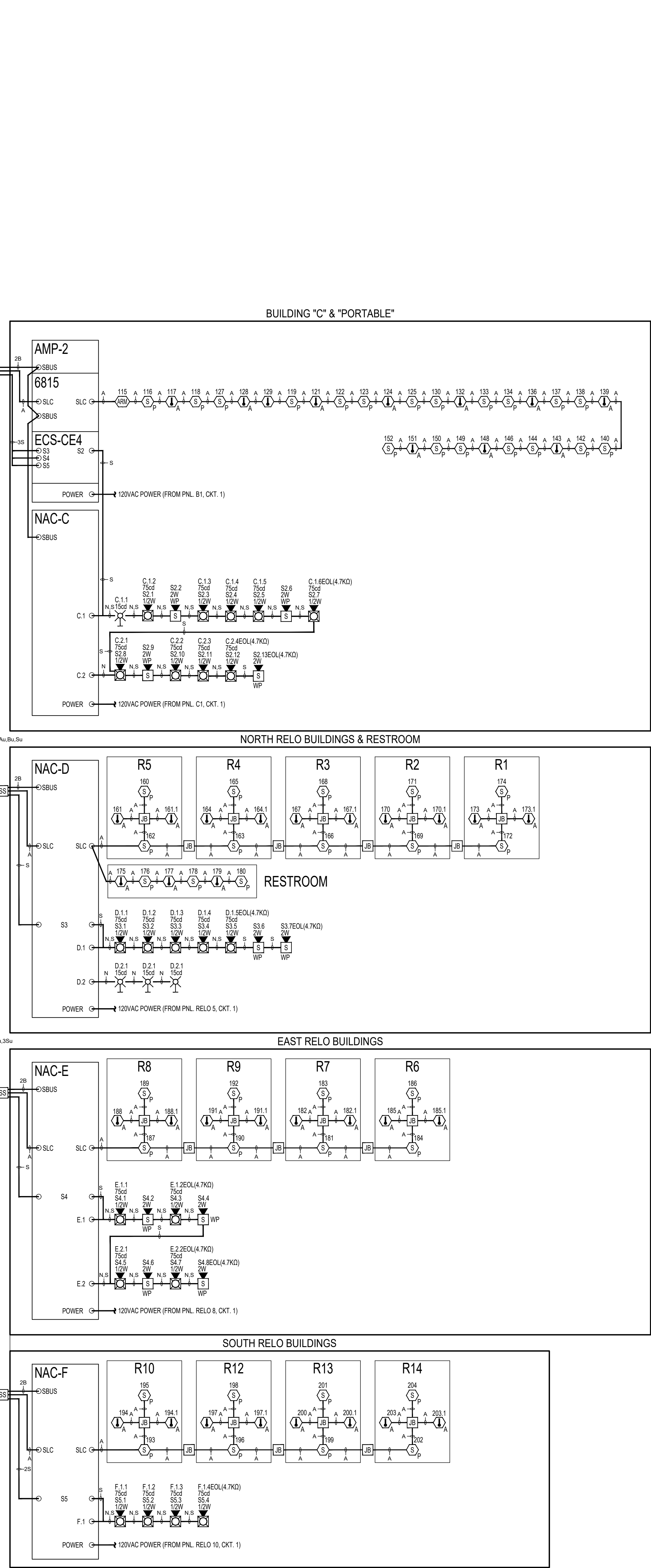
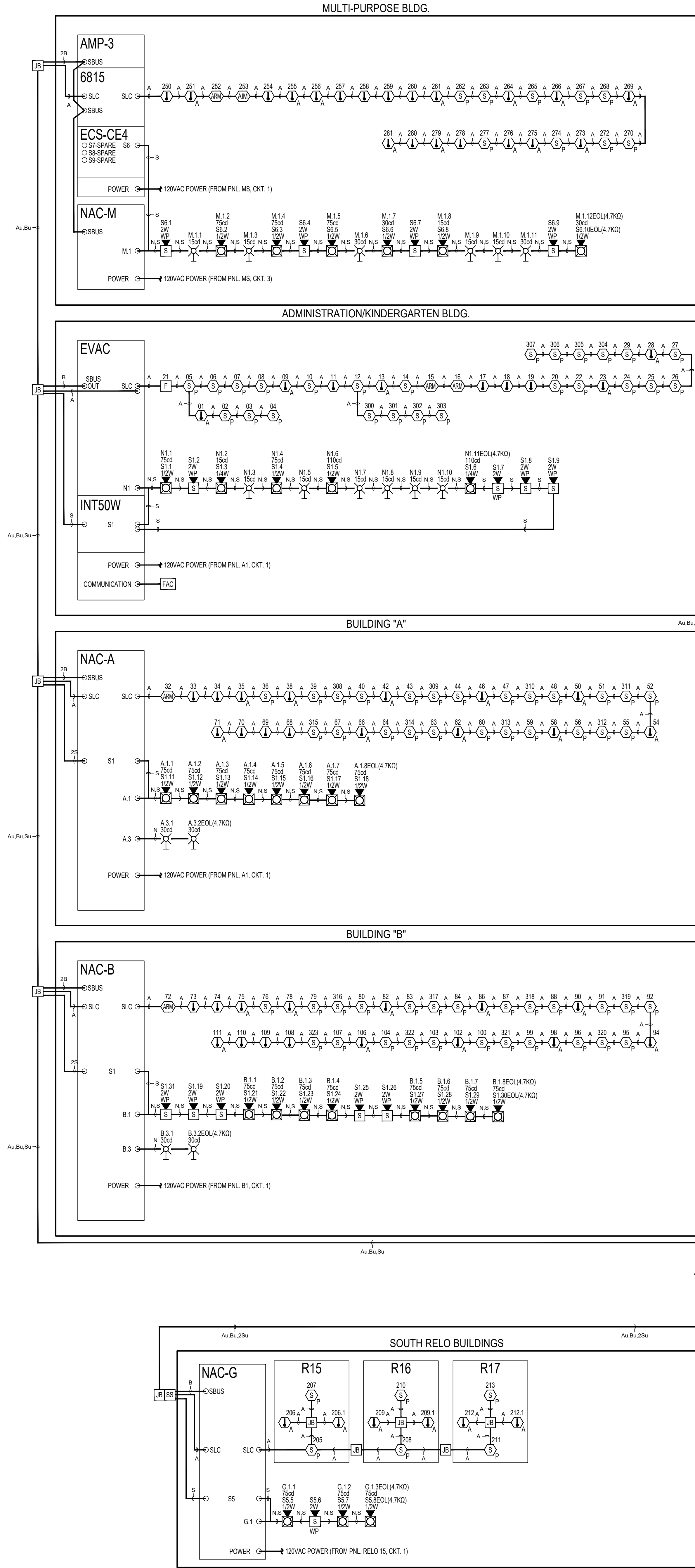
DSA APP# NO. 04-121817 DSA FILE NO. 30-43



CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-28-2022	220308	
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

FIRE ALARM FLOOR PLAN:
MULTI-PURPOSE ROOM



IDENTIFICATION STAMP
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14142 Hoover St
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DSA SUBMITTAL
DSA APPL. NO. 04-121817 DSA FILE NO. 30-43

WESTMINSTER SCHOOL DISTRICT

AD X1 MP
A
B
C
KEY PLAN
NORTH: PLAN

Consultant

DAVID C. DELLA VALLE
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE: 12-28-2022 PROJECT NUMBER: 220308
REVISIONS

No.	Description	Date

DSA SUBMITTAL

FIRE ALARM RISER DIAGRAM

FA2.00

FIRE ALARM CALCULATIONS

FIRE ALARM BATTERY CALCULATIONS

Honeywell INTELLIKNIGHT		IntelliKnight IFP-2100ECS Battery Calculation									
Power Source Requirements											
Device Type		Standby Current (amps)				Secondary Alarm Current (amps)					
	Qty	Current Draw				Current Draw					
1. Control Panel											
2100 Control Panel	1	x	0.230000	=	0.230000	1	x	0.415000	=	0.415000	
2. Addressable SLC Devices											
IDP-PHOTO-W(T)	140	x	0.000200	=	0.028000	140	x	0.000450	=	0.063000	
IDP-HEAT-WHT (ROR)	93	x	0.000275	=	0.018000	93	x	0.000450	=	0.041850	
IDP-MONITOR	5	x	0.000375	=	0.001875	5	x	0.000375	=	0.001875	
IDP-PULL-SA	1	x	0.000375	=	0.000375	1	x	0.000375	=	0.000375	
IDP-RELAY	6	x	0.000255	=	0.001530	6	x	0.000255	=	0.001530	
6. Accessory Modules											
GS15	2	x	0.078000	=	0.156000	2	x	0.078550	=	0.157100	
RPS-1000	8	x	0.010000	=	0.080000	8	x	0.010000	=	0.080000	
ECS-INT50W@70V	1	x	0.052000	=	0.052000	1	x	0.031000	=	0.031000	
ECS-50W	2	x	0.010000	=	0.020000	2	x	0.010000	=	0.020000	
ECS-VCM	1	x	0.070000	=	0.070000	1	x	0.100000	=	0.100000	
8. Output Circuits											
NAC 1	1	x	0.000000	=			x	0.811000	=	0.811000	
Total Standby Load					0.848380	Total Alarm Load					2.251730

Honeywell SILENT KNIGHT										IntelliKnight 6820-EVS Battery Calculation									
Note 1: You are fully responsible for verifying these calculations.																			
Note 2: Use the dropdowns in the yellow cells to enter values.																			
Calculation in Total Sheet																			
Standby Load Current										Required Standby Time In Hours									
										24 Hours									
0.84838 Amps										x 24 = 20.361 AH									
Alarm Load Current (Amps)										Required Alarm Time In Minutes									
										15 Minutes									
2.25173 Amps										x 0.25 = 0.563 AH									
Multiply by the Derating Factor										Total Current Load									
										0.924 AH									
1.2										x 1.2 = 25.11 AH									
Total Ampere Hours Required										25.11 AH									

RPS-1000 NAC-A BATTERY CALCULATIONS FOR 24 HOUR STANDBY									
PART#		DESCRIPTION		STANDBY QTY		TOTAL CURRENT		ALARM CURRENT	
RPS-1000		SILENT KNIGHT POWER EXPANDER		1		0.01000		0.01000	
24V AUXILIARY DEVICES		24V AUX. DEVICE TOTALS		0.000		0.000		0.000	
PANEL CIRCUIT		FIELD NOTIFICATION APPLIANCE CIRCUITS		1		0.000		0.000	
N1		NOTIFICATION APPLIANCE CIRCUIT -N1-1		1		0.000		0.000	
N2		NOTIFICATION APPLIANCE CIRCUIT -N1-2		1		0.000		0.000	
NAC TOTALS		NAC TOTALS		0.000		0.000		0.000	
OVERALL TOTALS		OVERALL TOTALS		0.010		0.010		0.010	
TOTAL ALARM AMPS		TOTAL ALARM AMPS		0.952		0.952		0.952	
TOTAL STANDBY AMPS		TOTAL STANDBY AMPS		0.010		0.010		0.010	
TOTAL AMP HOURS REQUIRED		TOTAL AMP HOURS REQUIRED		24		2.400		2.400	
RECOMMENDED MINIMUM BATTERY SIZE		RECOMMENDED MINIMUM BATTERY SIZE		7.0		7.0		7.0	
LESS 20% DERATING FACTOR		LESS 20% DERATING FACTOR		5.6		5.6		5.6	
SPARE AMP HOURS		SPARE AMP HOURS		5.1		5.1		5.1	

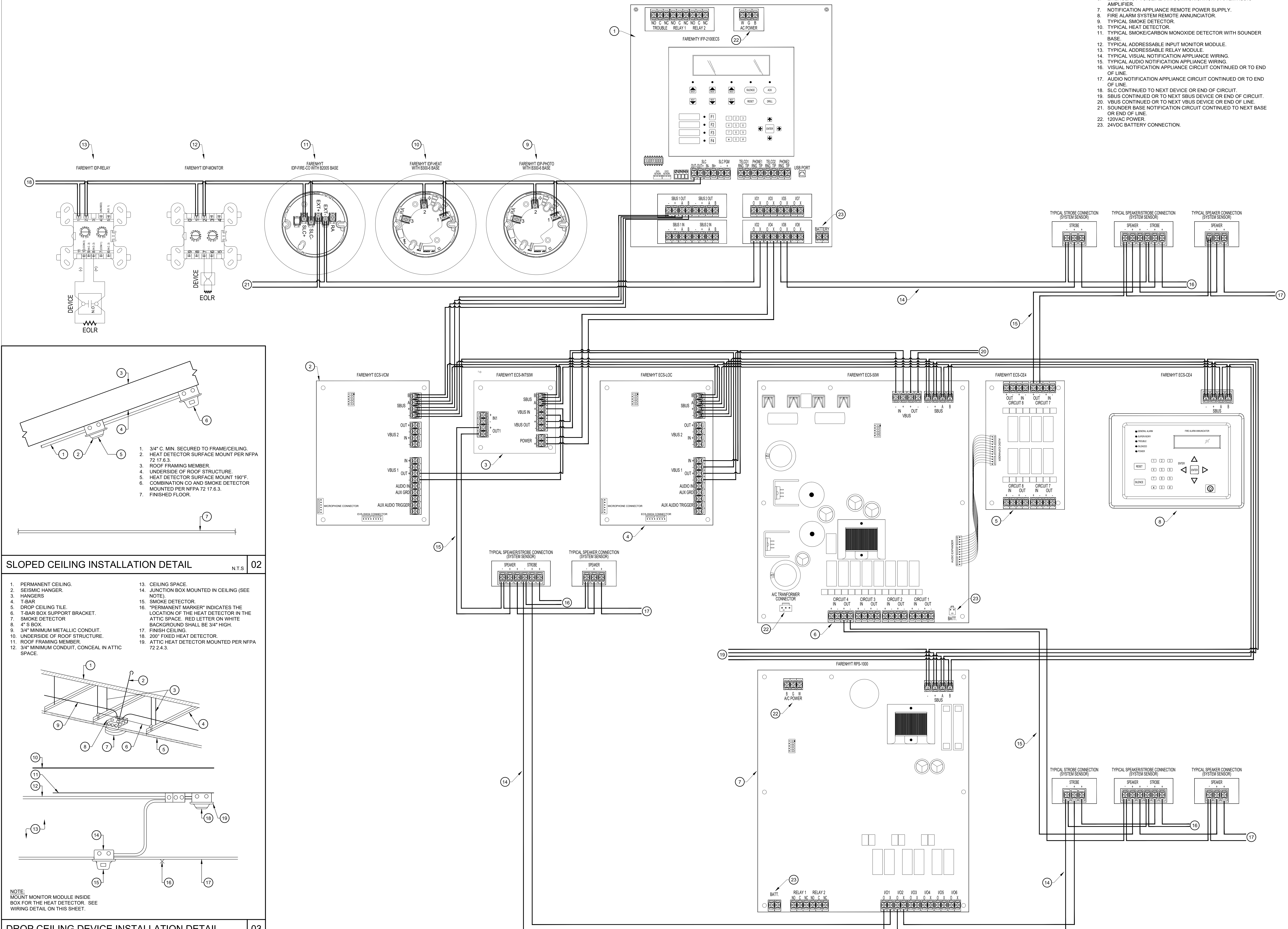
RPS-1000 NAC-B BATTERY CALCULATIONS FOR 24 HOUR STANDBY									
PART#		DESCRIPTION		STANDBY QTY		TOTAL CURRENT		ALARM CURRENT	
RPS-1000		SILENT KNIGHT POWER EXPANDER		1		0.01000		0.01000	
24V AUXILIARY DEVICES		24V AUX. DEVICE TOTALS		0.000		0.000		0.000	
PANEL CIRCUIT		FIELD NOTIFICATION APPLIANCE CIRCUITS		1		0.000		0.000	
N1		NOTIFICATION APPLIANCE CIRCUIT -N1-1		1		0.000		0.000	
N2		NOTIFICATION APPLIANCE CIRCUIT -N1-2		1		0.000		0.000	
NAC TOTALS		NAC TOTALS		0.000		0.000		0.000	
OVERALL TOTALS		OVERALL TOTALS		0.010		0.010		0.010	
TOTAL ALARM AMPS		TOTAL ALARM AMPS		0.952		0.952		0.952	
TOTAL STANDBY AMPS		TOTAL STANDBY AMPS		0.010		0.010		0.010	
TOTAL AMP HOURS REQUIRED		TOTAL AMP HOURS REQUIRED		24		2.400		2.400	
RECOMMENDED MINIMUM BATTERY SIZE		RECOMMENDED MINIMUM BATTERY SIZE		7.0		7.0		7.0	
LESS 20% DERATING FACTOR		LESS 20% DERATING FACTOR		5.6		5.6		5.6	
SPARE AMP HOURS		SPARE AMP HOURS		5.1		5.1		5.1	

RPS-1000 NAC-C BATTERY CALCULATIONS FOR 24 HOUR STANDBY									
PART#		DESCRIPTION		STANDBY QTY		TOTAL CURRENT		ALARM CURRENT	
RPS-1000		SILENT KNIGHT POWER EXPANDER		1		0.01000		0.01000	
24V AUXILIARY DEVICES		24V AUX. DEVICE TOTALS		0.000		0.000		0.000	
PANEL CIRCUIT		FIELD NOTIFICATION APPLIANCE CIRCUITS		1		0.000		0.000	
N1		NOTIFICATION APPLIANCE CIRCUIT -N1-1		1		0.000		0.000	
N2		NOTIFICATION APPLIANCE CIRCUIT -N1-2		1		0.000		0.000	
NAC TOTALS		NAC TOTALS		0.000		0.000		0.000	
OVERALL TOTALS		OVERALL TOTALS		0.010		0.010		0.010	
TOTAL ALARM AMPS		TOTAL ALARM AMPS		0.952		0.952		0.952	
TOTAL STANDBY AMPS		TOTAL STANDBY AMPS		0.010		0.010		0.010	
TOTAL AMP HOURS REQUIRED		TOTAL AMP HOURS REQUIRED		24		2.400		2.400	
RECOMMENDED MINIMUM BATTERY SIZE		RECOMMENDED MINIMUM BATTERY SIZE		7.0		7.0		7.0	
LESS 20% DERATING FACTOR		LESS 20% DERATING FACTOR		5.6		5.6		5.6	
SPARE AMP HOURS		SPARE AMP HOURS		5.1		5.1		5.1	

RPS-1000 NAC-C BATTERY CALCULATIONS FOR 24 HOUR STANDBY									
PART#		DESCRIPTION		STANDBY QTY		TOTAL CURRENT		ALARM CURRENT	
RPS-1000		SILENT KNIGHT POWER EXPANDER		1		0.01000		0.01000	
24V AUXILIARY DEVICES		24V AUX. DEVICE TOTALS		0.000		0.000		0.000	
PANEL CIRCUIT		FIELD NOTIFICATION APPLIANCE CIRCUITS		1		0.000		0.000	
N1		NOTIFICATION APPLIANCE CIRCUIT -N1-1		1		0.000		0.000	
N2		NOTIFICATION APPLIANCE CIRCUIT -N1-2		1		0.000		0.000	
NAC TOTALS		NAC TOTALS		0.000		0.000		0.000	
OVERALL TOTALS		OVERALL TOTALS		0.010		0.010		0.010	
TOTAL ALARM AMPS		TOTAL ALARM AMPS		0.952		0.952		0.952	
TOTAL STANDBY AMPS		TOTAL STANDBY AMPS		0.010		0.010		0.010	
TOTAL AMP HOURS REQUIRED		TOTAL AMP HOURS REQUIRED		24		2.400		2.400	
RECOMMENDED MINIMUM BATTERY SIZE		RECOMMENDED MINIMUM BATTERY SIZE		7.0		7.0		7.0	
LESS 20% DERATING FACTOR		LESS 20% DERATING FACTOR		5.6		5.6		5.6	
SPARE AMP HOURS		SPARE AMP HOURS		5.1		5.1		5.1	

RPS-1000 NAC-D										A 24	
BATTERY CALCULATIONS FOR 24 HOUR STANDBY										C 50	
PART#		DESCRIPTION		STANDBY QTY		TOTAL CURRENT		ALARM CURRENT		TOTAL ALARM	
PANEL CORDSET AND CARDS		RPS-1000		1		0.01000		0.01000		0.01000	
PANEL CORDSET AND CARDS		RPS-1000		1		0.01000		0.01000		0.01000	
24V AUXILIARY DEVICES											
PANEL CIRCUIT 1		FIELD NOTIFICATION APPLANCE CIRCUIT 1									
N1		NOTIFICATION APPLANCE CIRCUIT #1-1		1		0.0000		0.0000		0.0000	
N2		NOTIFICATION APPLANCE CIRCUIT #1-2		1		0.0000		0.0000		0.0000	
		NAC PANELS									
		OVERALL TOTALS									

0' 1'



FARENHYT IFP-2100ECS WITH ECS-INT50W, ECS-VCN, ECS-LOC, ECS-50W WITH ECS-CE4 EXPANDER, RPS-1000 INTELLIGENT POWER SUPPLY AND RA-1000 ANNUNCIATOR TYPICAL WIRE DIAGRAM