

WESTMINSTER SCHOOL DISTRICT

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

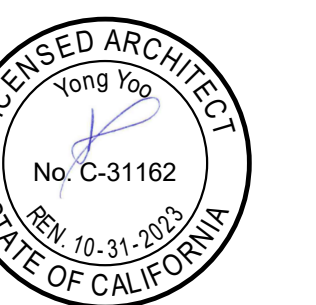
DSA SUBMITTAL

12-29-2022



WEBBER ELEMENTARY
HVAC UPGRADE &
MODERNIZATION

14142 Hoover St.
Westminster, CA 92683
DSA SUBMITTAL



OWNER

WESTMINSTER SCHOOL DISTRICT
CONTACT: Brian Johnson
14121 Cedarwood Avenue
Westminster, CA 92683
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ARCHITECT

PBK Architects
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MEP ENGINEER

LEAF Engineers
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8163 Rochester Ave. #100
Rancho Cucamonga, CA 91730
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STRUCTURAL

**NIC STRUCTURAL
ENGINEERING CONSULTANTS**
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teimani@nic-eng.com

1"						ABBREVIATIONS					
A	A.D.	AREA DRAIN	M	MEP	MECHANICAL, ELECTRICAL, PLUMBING						
A	A.D.A.	AMERICANS WITH DISABILITIES ACT	M	MEPT	MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY						
A	A.D.A.	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	M	MEZZ	MEZZANINE						
A	A.D.A.A.G.	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES	M	MFR / MANUF.	MANUFACTURE (R)						
A	A.F.F.	ABOVE FINISH FLOOR	M	MH.	MANHOLE						
A	A.F.G.	ABOVE FINISH GRADE	M	MIN.	MINIMUM						
A	A.H.J.	AUTHORITY HAVING JURISDICTION	M	MISC.	MISCELLANEOUS						
A	A.C.	AIR CONDITIONING	M	MOD	MODULAR						
A	ACC.	ACCESSIBLE, ACCESSIBILITY	M	MTL	METAL						
A	ACCP.	ACOUSTICAL PANEL	N	N.D.	NAPKIN DISPOSAL						
A	ACT.	ACOUSTICAL TILE	N	N.I.C.	NOT IN CONTRACT						
A	ADJ.	ADJUSTABLE	N	N.T.S.	NOT TO SCALE						
A	ALT.	ALTERNATE	N	N.V.	NAPKIN VENDOR						
A	ALUM.	ALUMINUM	N	NO.	NUMBER						
A	ASPH.	ASPHALT	N	NOM.	NOMINAL						
A	ANGLE	ANGLE	O	O.C.	ON CENTER (S)						
B	B.O.D.	BOTTOM OF DECK	O	O.C.E.W.	ON CENTER EACH WAY						
B	B.U.R.	BUILT-UP ROOF	O	O.D.	OUTSIDE DIAMETER						
B	BO.	BOARD	O	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED						
B	BLD.	BUILDING	O	O.H.	OPPOSITE HAND						
B	B.L.C.	BLOCK	O	OPNG.	OPENING						
B	BM.	BEAM	O	OPP.	OPPOSITE						
C	C	CHANNEL	P	P.LAM / PLAM.	PLASTIC LAMINATE						
C	C.J.	CONTROL JOINT	P	P.C.	PRECAST						
C	C.M.U.	CONCRETE MASONRY UNIT	P	P.H.	PAPER HOLDER						
C	C.W.	COLD WATER	P	P.L.	PROPERTY LINE						
C	CAB, CABT	CABINET	P	P.P.	POWER POLE						
C	CFMF	COLD-FORMED METAL FRAMING	P	P.W.B.	PRE-FINISHED WALL BOARD						
C	CFSF	COLD-FORMED STEEL FRAMING	P	P.L.	PLATE						
C	CL	CENTERLINE	P	P.LUMB.	PLUMBING						
C	CLG.	CEILING	P	P.LYWD.	PLYWOOD						
C	CLR.	CLEAR	P	POL.	POLISHED						
C	COL.	COLUMN	P	PRE.	PAIR						
C	COMP.	COMPRESSIBLE	P	PREFIN.	PRE-FINISHED						
C	CONC.	CONCRETE	P	PT	PRESSURE-TREATED						
C	COND.	CONDITION	P	PT.	POINT						
C	CONT.	CONTINUOUS	P	PTD.	PAINTED						
C	CORR.	CORRIDOR	Q	Q.T.	QUARRY TILE						
C	CPT.	CARPET (ED)	R	R / RAD	RADIUS						
C	CT.	CERAMIC TILE	R	RCP	REFLECTED CEILING PLAN						
C	CTSK.	COUNTER SINK	R	RD	ROOF DRAIN						
D	D	DRYER	R	RE, REF	REFER TO / REFERENCE / SEE						
D	D.F.	DRINKING FOUNTAIN	R	RECP.	RECEPTACLE						
D	D.P.	DAMP-PROOFING	R	REINF.	REINFORCE (D), (ING)						
D	D.S.	DOWN SPOUT	R	REQD.	REQUIRED						
D	DIA.	DIAMETER	R	RES.	RESILIENT						
D	DIM.	DIMENSION	R	REV.	REVISION (S), REVISED						
D	DTL.	DETAIL	R	RF	RECREATIONAL RESILIENT FLOORING						
D	DWG.	DRAWING	R	RPG.	RELOCATABLE PAINTED GYPSUM BOARD						
E	E.J.	EXPANSION JOINT	R	RSS.	ROD STOCK AND SEALANT						
E	E.Q.	EQUAL	S	S.C.	SEALED CONCRETE						
E	EA.	EACH	S	S.D.	SOAP DISPENSER						
E	EDF	ELECTRIC DRINKING FOUNTAIN	S	S.N.D.	SANITARY NAPKIN DISPOSAL						
E	EL.	ELEVATION (HEIGHT)	S	SCHED	SCHEDULE						
E	ELEC.	ELECTRICAL	S	SCPL.	SOLID CORE PLASTIC LAMINATE						
E	ELECT.	ELECTRICAL	S	SECT	SECTION						
E	ELEV.	ELEVATION (DRAWING)	S	SHT	SHEET						
E	EQUIP.	EQUIPMENT	S	SM.	SIMILAR						
E	EXIST.	EXISTING	S	SPC	SPECIAL COATING SYSTEM						
E	EXP.	EXPANSION	S	SPEC	SPECIFICATION (S)						
E	EXT.	EXTERIOR	S	SQ.	SQUARE						
F	F.E.	FIRE EXTINGUISHER	S	SS / SS.	STAINLESS STEEL						
F	F.E.C.	FIRE EXTINGUISHER CABINET	S	STL.	STEEL						
F	F.H.C.	FIRE HOSE CABINET	S	STRUC / STRUCT	STRUCTURAL						
F	FB.	FACE BRICK	S	STL.	STEEL						
F	FD.	FLOOR DRAIN	S	STRUC / STRUCT	STRUCTURAL						
F	FIN.	FINISH (ED)	S	SUSP.	SUSPENDED						
F	FKT.	FIXTURE	S	SVDF	SHEET VINYL DANCE FLOORING						
F	FLR.	FLOOR (ING)	S	SVF	SHEET VINYL FLOORING						
F	FLSHG.	FLASHING	T	T.A.S.	TEXAS ACCESSIBILITY STANDARDS (2012)						
F	FLUOR.	FLUORESCENT	T	T.B.	TACK BOARD						
F	FRP	FIBER REINFORCED PLASTIC	T	T.D.R.	TOWEL DISPENSER AND RECEPTACLE						
G	G.B.	GRAB BAR	T	T.O.	TOP OF						
G	G.I.	GALVANIZED IRON	T	T.O.B.	TOP OF (WOOD) BLOCKING						
G	GA.	GAUGE	T	T.O.M.	TOP OF MASONRY						
G	GALV.	GALVANIZED	T	T.O.P.	TOP OF PARAPET						
G	GCMU	GLAZED CONCRETE MASONRY UNIT	T	T.O.S.	TOP OF STEEL						
G	GEN.	GENERAL	T	T.T.D.	TOILET TISSUE DISPENSER						
G	GEN.	GENERAL	T	TEL	TELEPHONE						
G	GL.	GLASS GLAZING	T	TERR	TERRAZZO						
G	GL.	GLASS	T	THK (NESS)	THICK (NESS)						
G	GR.	GRADE	T	TYP.	TYPICAL						
G	GTP.	GLAZED TILE PAVER	U	U.N.O.	UNLESS NOTED OTHERWISE						
G	GYP.	GYPSUM DRYWALL	U	UR.	URNAL						
H	H.W.	HOT WATER	V	V	VENT						
H	HM.	HOLLOW METAL FRAME	V	V.C.T.	VINYL COMPOSITION TILE						
H	HORIZ.	HORIZONTAL	V	V.I.F.	VERIFY IN FIELD						
H	HT.	HEIGHT	V	V.ENT.	VENTILATING, VENTILATED						
I	I.D.	INSIDE DIAMETER	V	VER.	VERIFY						
I	I.P.S.	IRON PIPE SIZE	V	VGB	(PREFINISHED) VINYL CLAD GYPSUM BOARD						
I	INSUL.	INSULATE (ED), (ION)	V	VWC	VINYL WALL COVERING						
I	INT.	INTERIOR	W	W	WASHING MACHINE						
J	JT.	JOINT	W	W.P.	WATER PROOFING						
L	L.P.	LIGHT POLE	W	W.S.	WEATHERSTRIP						
L	LAM.	LAMINATE (D)	W	W.W.	WATER WELL						
L	LAV.	LAVATORY	W	W.W.F.	WELDED WIRE FABRIC						
L	LT.	LIGHT	W	W.W.M.	WOVEN WIRE MESH						
L	LT.WT.	LIGHTWEIGHT	W	W	WITH						
M	M.O.	MASONRY OPENING	W	WC	WATER CLOSET						
M	MAS.	MASONRY	W	WD	WOOD						
M	MATL.	MATERIAL (S)	W	WID	WINDOW						
M	MAX.	MAXIMUM	W	WIDW	WINDOW						
M	MS.	MARKER BOARD	W	W	WEIGHT						
M	MECH.	MECHANICAL									
M	MEM.	MEMBRANE									
M	MEM.WP.	MEMBRANE WATERPROOFING									

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 04-121818 File No. 30-43)

☒ The drawings or sheets listed on the cover or index sheet (see asterisk *) This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1, (Title 24, Part 1, Section 4-317 (b))

I find that:

☒ The drawings or sheets listed on the cover or index sheet This drawing or page

☒ is/are in general conformance with the project design intent, and

☒ has/have been coordinated with the project plans and specifications.

Signature: YONG YOO Date: 6-20-23

Architect or Engineer designated to be in general responsible charge

Print Name: C-31162 Expiration Date: 10/31/2023

License Number: Expiration Date:

Signature: Date:

Architect or Engineer delegated responsibility for this portion of the work

Print Name: Expiration Date:

License Number: Expiration Date:

PARTIAL LIST OF APPLICABLE CODES

2022 Building Standards Administrative Code..... (Part 1, Title 24, CCR)

2019 California Building Code (CBC)..... (Part 2, Title 24, CCR)

2018 International Building Code with 2019 California Amendments..... (Part 3, Title 24, CCR)

2019 California Electrical Code (CEC)..... (Part 4, Title 24, CCR)

2019 California Plumbing Code (CPC)..... (Part 5, Title 24, CCR)

2018 IAMPO Uniform Plumbing Code and 2019 California Amendments..... (Part 6, Title 24, CCR)

2019 California Energy Code (CEC)..... (Part 9, Title 24, CCR)

2019 California Fire Code (CFC)..... (Part 10, Title 24, CCR)

2018 International Fire Code and 2019 California Amendments..... (Part 11, Title 24, CCR)

2019 California Existing Building Code (CEBC)..... (Part 12, Title 24, CCR)

2019 California Green Building Standards Code..... (Title 19, CCR)

2019 California Reference Standards Code..... (per 2019 CBC Part 2 Ch 35)

2016 ASME A17.1/CSA B44-16 Safety Code for Elevators and Escalators.....

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

PARTIAL LIST OF FIRE LIFE SAFETY APPLICABLE STANDARDS

NFPA 13 Automatic Fire Sprinkler Systems..... (2016 Edition, CA Amended)

NFPA 14 Standpipes and Hose Systems..... (2016 Edition, CA Amended)

NFPA 17 Dry Chemical Extinguishing Systems..... (2017 Edition)

NFPA 17A Wet Chemical Extinguishing Systems..... (2017 Edition)

NFPA 20 Stationary Pumps for Fire Protection..... (2015 Edition)

NFPA 22 Standard for the Installation of Private Fire Service Mains and Their Appurtenances..... (2016 Edition, CA Amended)

NFPA 24 Private Fire Mains and their Appurtenances..... (2016 Edition, CA Amended)

NFPA 72 National Fire Alarm & Signaling Code..... (2016 Edition)

NFPA 80 Fire Doors and Other Opening Protectives..... (2015 Edition)

NFPA 2001 Clean Agent Fire Extinguishing Systems..... (2005, R2019)

UL 464 Audible Signal Appliances..... (2015 Edition)

UL 521 Standard for Heat Detectors for Fire Protective Signaling Systems..... (1999 Edition)

UL 1971 Standard for Signaling Devices for the Hearing Impaired..... (2002, R2012)

ICC 300 Standard for Bleachers, Folding and Telescopic Seating, and Grandstands..... (2017 Edition)

DRAWING CONVENTIONS

PROPERTY LINE

AREA DRAIN

NORTH SYMBOL

COLUMN LINE

FLOOR LINE

MATCH LINE

SECTION CALLOUT SYMBOL

EXTERIOR ELEVATION SYMBOL

INTERIOR ELEVATION SYMBOL

DOOR DESIGNATION

WINDOW DESIGNATION

PARTITION TYPE

EXISTING PARTITION

NEW PARTITION

REVISION NUMBER

DETAIL ENLARGED

PLAN OR DETAIL ENLARGED

DETAIL SECTIONS AND VERTICAL SECTIONS

DIMENSIONS

SPOT ELEVATION

KEY NOTE

ROOM NAME AND NUMBER

FIRE HOSE CABINET (RECESSED AND SURFACE MOUNTED)

FIRE EXTINGUISHER CABINET (RECESSED AND SURFACE MOUNTED)

TOILET ACCESSORY SYMBOL

FLOOR DRAIN

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.

2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.

3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.

4. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.

5. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.

7. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED, REPAIR OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.

8. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.

9. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.

10. REFLECTED CEILING PLAN DIMENSIONS ARE REFERENCED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR TO FINISHED CEILING HEIGHT.

11. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.

12. DO NOT SCALE DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.

13. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.

14. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.

15. ALL SPACES WITH FLOOR DRAINS TO HAVE FINISHED FLOORS SLOPED TO DRAIN NOT TO EXCEED ONE IN FIFTY.

16. ALL FLOORS FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.

17. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED.

18. ALL DOORS IN INTERIOR GYP. BD STUD WALLS SHALL BE SET 4" OFF THE PERP. ADJ. WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.

19. ALUM. THRESHOLDS TO BE SET IN FULL BED OF SEALANT AT ALL EXT. DOORS.

20. UNLESS OTHERWISE NOTED, ALL ELECTRICAL AND MECHANICAL OPERABLE DEVICES SHALL BE MOUNTED WITH THE HIGHEST OPERABLE CONTROL AT MAX. OF 42" AFF.

21. SHOULD ANY EXISTING DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. PER CAC, 2013, 4-317(c)

STRUTURAL *
GENERAL NOTES
FLOOR / ROOF PLANS - BLDG A,B&K
FLOOR / ROOF PLANS - BLDG C , ADMIN
CONCRETE DETAILS
RTU DETAILS
HUNG UNITS DETAILS

***NOTE: DSA APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED AS THE CERTIFICATION OF COMPLIANCE FOR THE FOLLOWING BUILDING(S) AS REQUIRED BY THE FIELD ACT, EDUCATION CODE SECTION 17280-17316 AND SECTIONS 81130-81147:
RELOCATABLE CLASSROOM BUILDINGS: F1, F2, F3, & F4
KINDERGARTEN BUILDING: PS1

DRAWING INDEX

GENERAL
COVER SHEET
SHEET INDEX, DRAWING CONVENTIONS, AND LOCATION MAP
ACCESSIBILITY SITE PLAN
SITE DETAILS

DEMOLITION
SITE DEMOLITION PLAN
DEMO FLOOR PLAN BLDG ADMIN. A,B,C&K
DEMO REFLECTED CEILING PLAN BLDG ADMIN. A,B,C&K

ARCHITECTURAL
FLOOR PLANS BLDG ADMIN. A,B,C&K
REFLECTED CEILING PLANS BLDG ADMIN. A,B,C&K
ROOF PLAN
ROOF DETAILS - MOD. BIT.
OVERALL ROOF PLAN AND DETAIL
ROOF PLAN
ROOF DETAILS- MOD. BIT.
BUILDING SECTIONS
ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS
EXTERIOR ELEVATIONS
EXTERIOR ELEVATIONS
INTERIOR ELEVATIONS
DOORS, WINDOW FRAME DETAILS
PARTITION TYPES AND MISC. DETAILS
CEILING & MISC DETAILS
DOORS SCHEDULE & WINDOWS FRAMING ELEVATION
FINISH PLAN & SCHEDULES

STRUCTURAL *
GENERAL NOTES
FLOOR / ROOF PLANS - BLDG A,B&K
FLOOR / ROOF PLANS - BLDG C , ADMIN
CONCRETE DETAILS
RTU DETAILS
HUNG UNITS DETAILS

MECHANICAL *
MECHANICAL SYMBOLS, LEGENDS AND NOTES
MECHANICAL TITLE 24 ADMINISTRATION
MECHANICAL TITLE 24 ADMINISTRATION
MECHANICAL TITLE 24 CLASSROOM BLDG A
MECHANICAL TITLE 24 CLASSROOM BLDG B
MECHANICAL TITLE 24 CLASSROOM BLDG B
MECHANICAL TITLE 24 CLASSROOM BLDG C
MECHANICAL TITLE 24 CLASSROOM BLDG C
MECHANICAL TITLE 24 KINDERGARTEN
MECHANICAL TITLE 24 KINDERGARTEN
MECHANICAL SITE PLAN
MECHANICAL FLOOR PLANS - DEMO
MECHANICAL FLOOR PLANS - DEMO
MECHANICAL FLOOR PLANS
MECHANICAL ROOF & CLERESTORY PLANS
MECHANICAL SCHEDULES
MECHANICAL SCHEDULES
MECHANICAL SCHEDULES
MECHANICAL SCHEDULES
MECHANICAL DETAILS VARIABLE REFRIGERANT SYSTEM
MECHANICAL DETAILS VARIABLE REFRIGERANT SYSTEM
MECHANICAL DETAILS
MECHANICAL DETAILS
ELECTRICAL *
ELECTRICAL SYMBOLS, LEGENDS AND NOTES
ELECTRICAL TITLE 24
ELECTRICAL TITLE 24
ELECTRICAL SITE PLAN
ELECTRICAL DEMOLITION FLOOR PLANS
ELECTRICAL DEMOLITION LIGHTING PLANS
ELECTRICAL DEMOLITION LIGHTING PLANS
ELECTRICAL FLOOR PLANS
ELECTRICAL LIGHTING PLANS
ELECTRICAL LIGHTING PLANS
ELECTRICAL LIGHTING PLANS
ELECTRICAL ROOF PLANS
ELECTRICAL SCHEDULES
ELECTRICAL DETAILS
ELECTRICAL SINGLE DIAGRAM
PLUMBING *
PLUMBING SYMBOLS, LEGENDS AND NOTES
PLUMBING FLOOR PLANS DEMO
PLUMBING FLOOR PLANS
PLUMBING FLOOR PLANS
PLUMBING ROOF & CLERESTORY PLANS
PLUMBING SCHEDULES
PLUMBING DETAILS
FIRE ALARM *
FIRE ALARM SYMBOLS, LEGENDS AND NOTES
FIRE ALARM SITE PLAN
FIRE ALARM FLOOR PLANS
FIRE ALARM FLOOR PLANS
FIRE ALARM FLOOR PLANS
FIRE ALARM SCHEDULES
FIRE ALARM DETAILS

TOTAL SHEET: 82

SHEET NUMBER
A2.01A
BUILDING AREA
SEQUENCE (01 - 99.....etc.)
SHEET DISCIPLINE TYPE
DISCIPLINE
0 - GENERAL
1 - FLOOR PLANS
2 - REFLECTED CEILING PLANS & DETAILS
3 - ROOF PLANS & DETAILS
4 - BUILDING SECTIONS
5 - ADA & ENLARGED PLANS
6 - ENLARGED PLAN DETAILS
7 - ENLARGED MILLWORK & DETAILS
8 - PARTITION TYPES & WALL SECTIONS
9 - WINDOWS, DOORS, FRAME ELEVATIONS & DETAILS
10 - FINISH SCHEDULES
11 - ELEVATIONS (EXTERIOR & INTERIOR)
12 - CASEWORK ELEVATIONS

SITE LOCATION MAP
GARDEN GROVE BLVD
HWY 22
TRASK AVE
WESTMINSTER BLVD
W HAZARD AVE
PLAN NORTH
GOLDENWEST ST
HOOVER ST
HWY 405

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PRBK

ARCHITECT
ANAHEIM
2400 E. Katella Ave. #950
Anaheim, CA 92806
P 949-548-5000
PRBK Architects, Inc.
PRBK.com

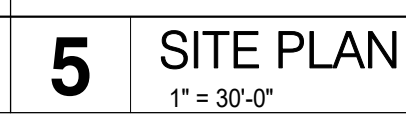
PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO. 04-121818 DSA FILE NO. 30-43

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

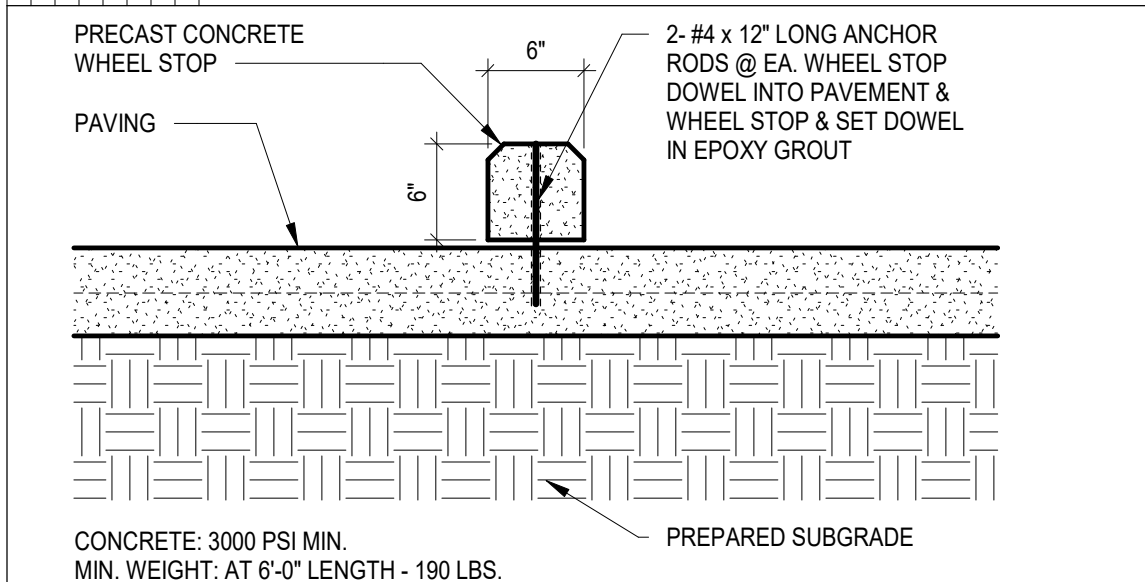
CONSULTANT
Architect
Yong Yoo
No C-31162
REV. 10-31-2023
STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309
REVISIONS
No. Description Date
DSB SUBMITTAL
SHEET INDEX, DRAWING CONVENTIONS, AND LOCATION MAP

G1



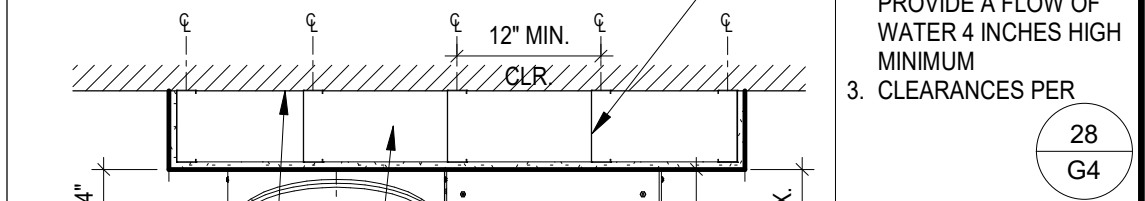
G2



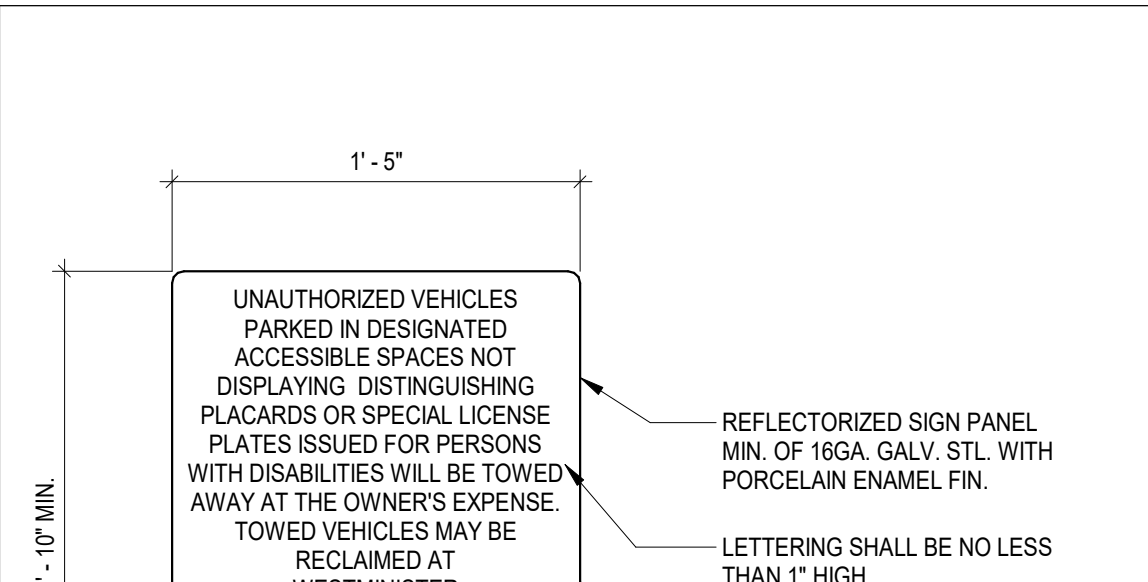
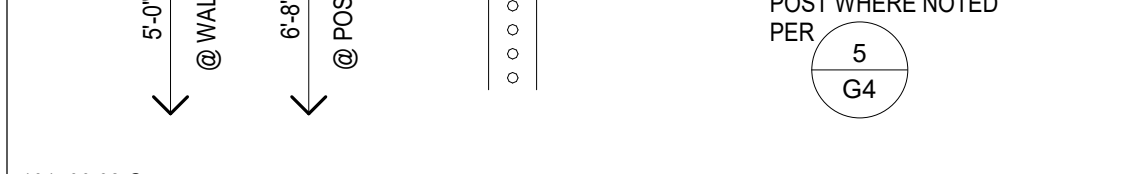
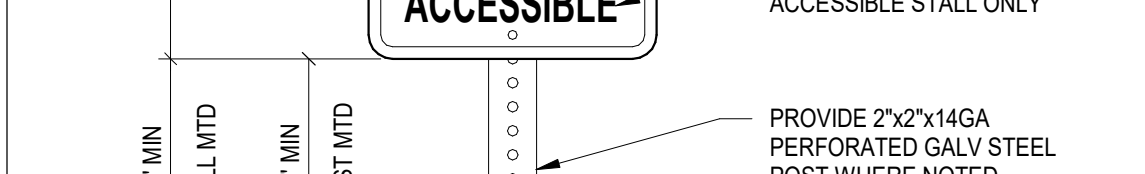
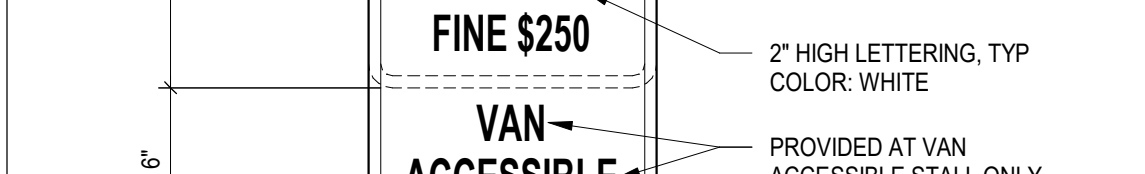
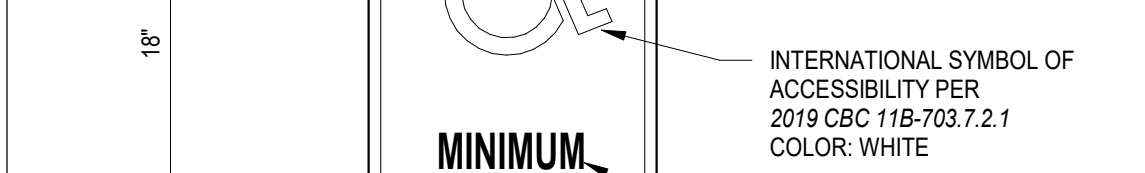
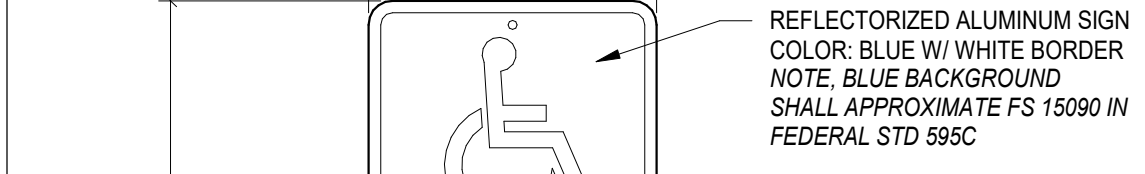
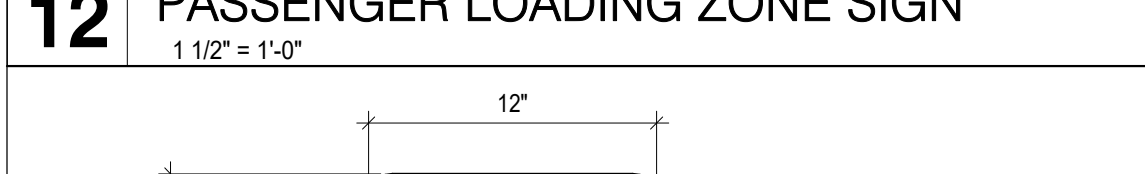
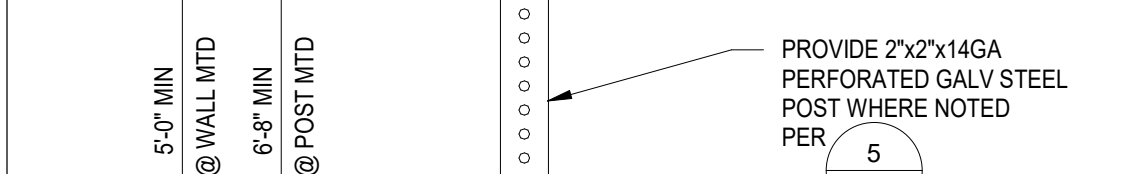
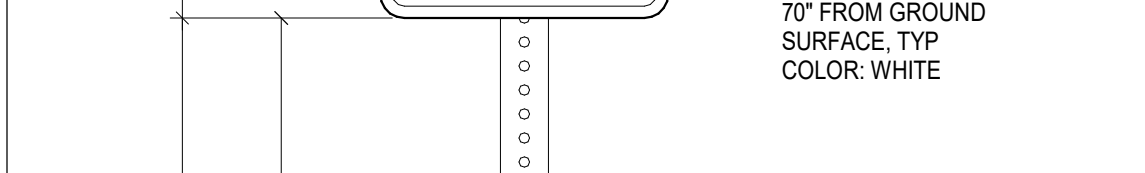
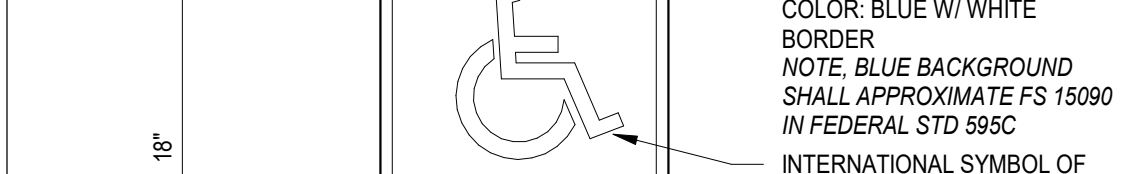
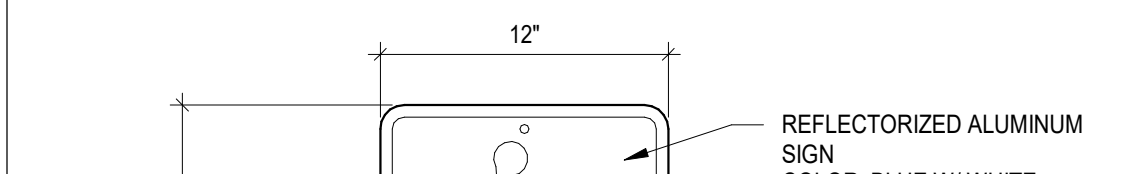
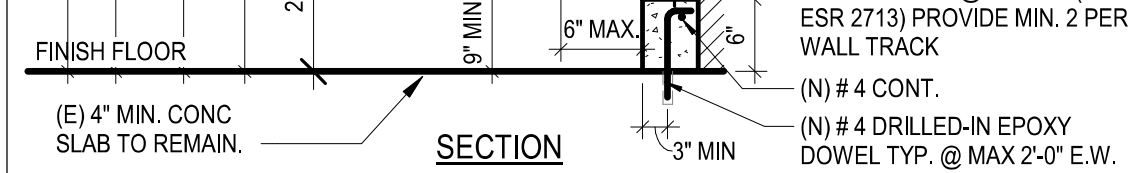
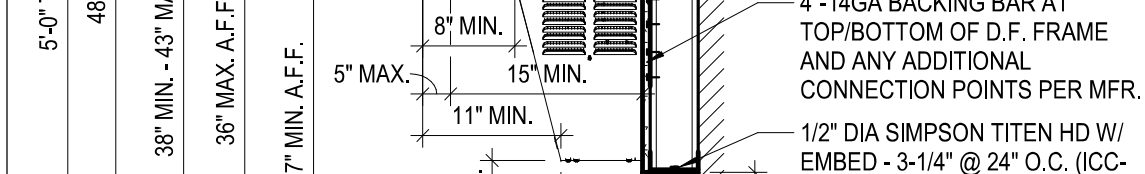
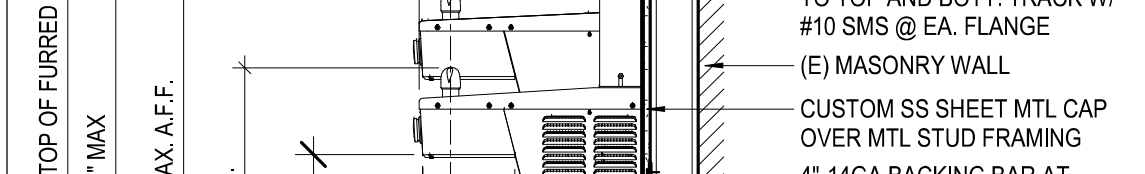
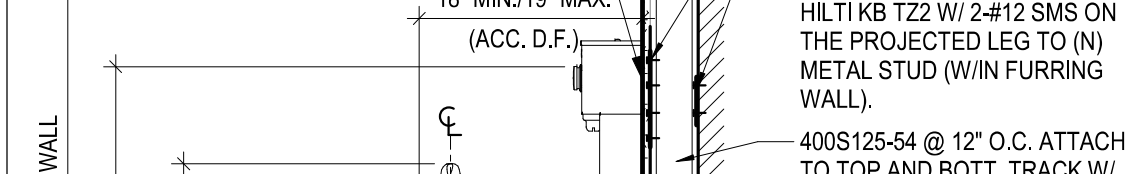
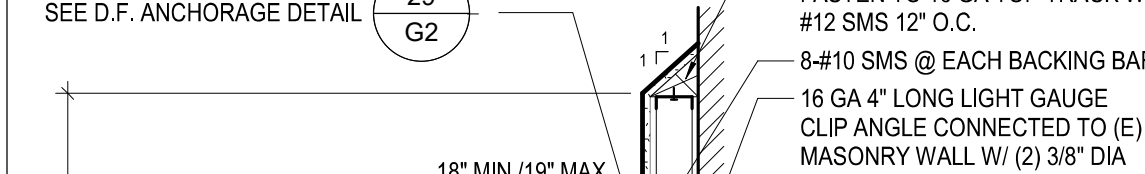
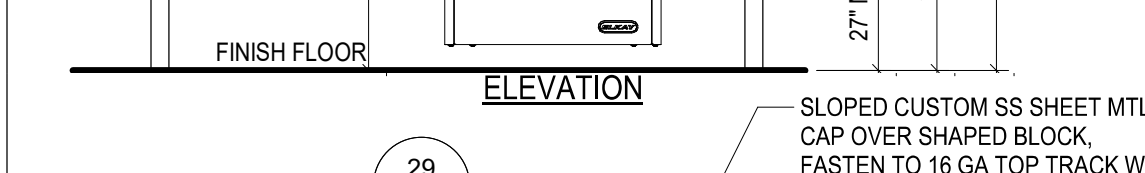
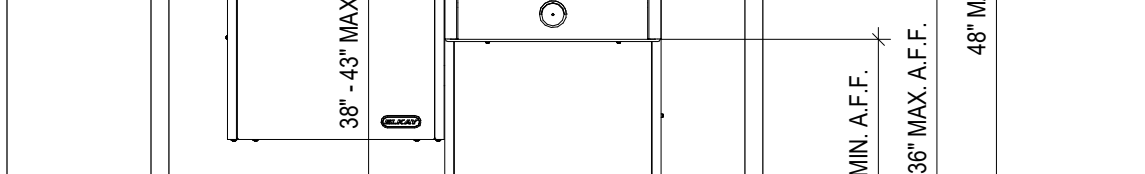
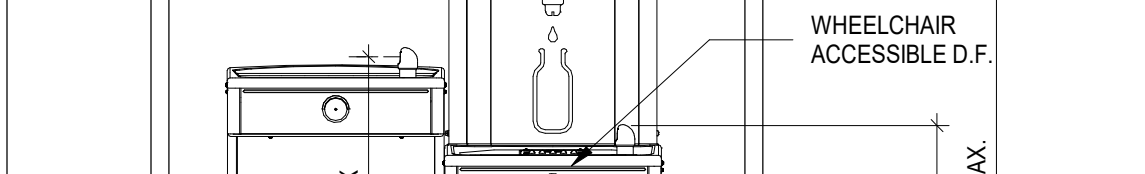
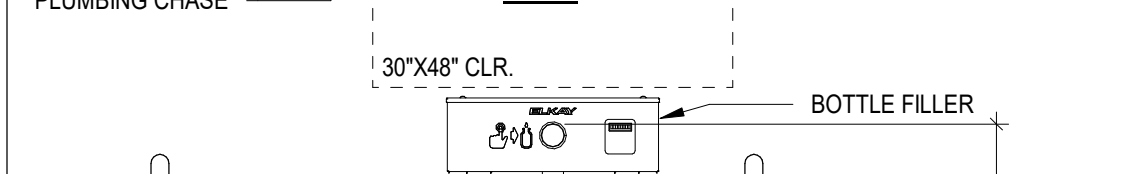
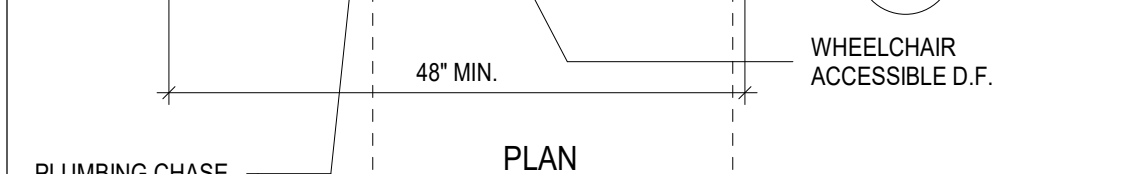
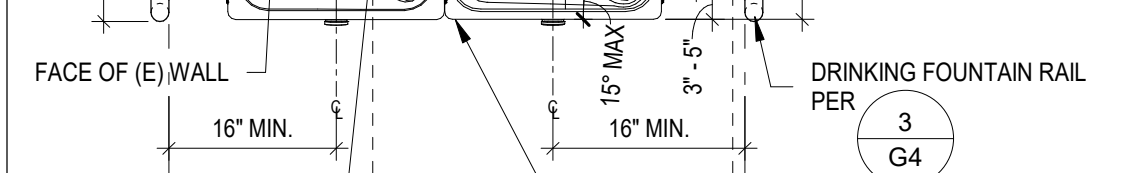
30 CONCRETE WHEEL STOP

1" = 1'-0"

DRINKING FOUNTAIN
MFR: EKAY
MODEL: ED20
DESCRIPTION: BOTTLE FILLER REFER TO PLUMBING SPOUT TO PROVIDE A FLOW OF WATER 4" HIGH MIN.
400S125-54 STRUCTURAL C-STUD @ 12" O.C.



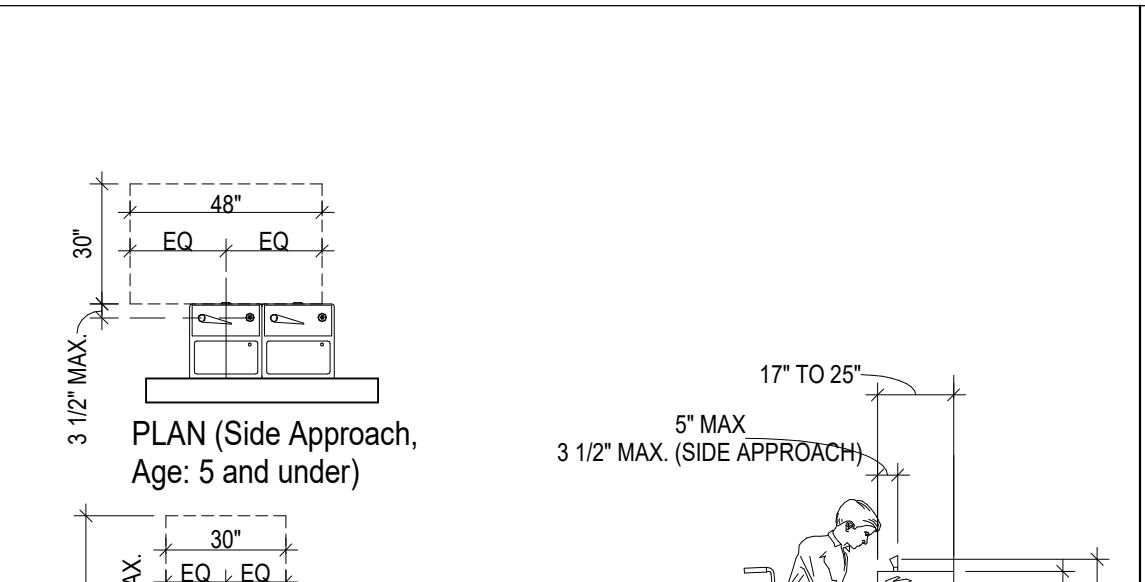
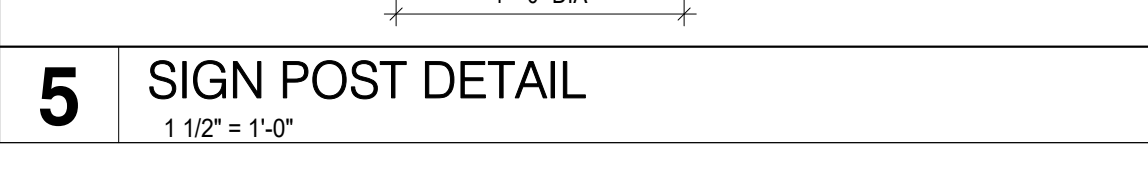
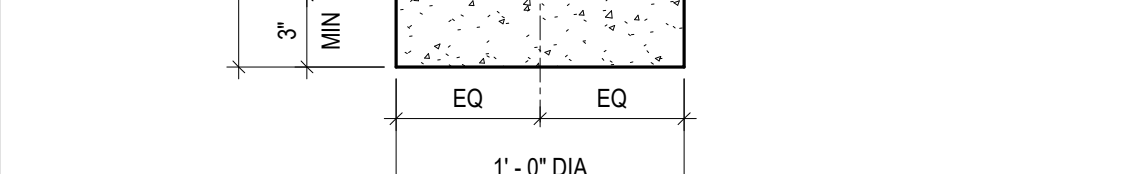
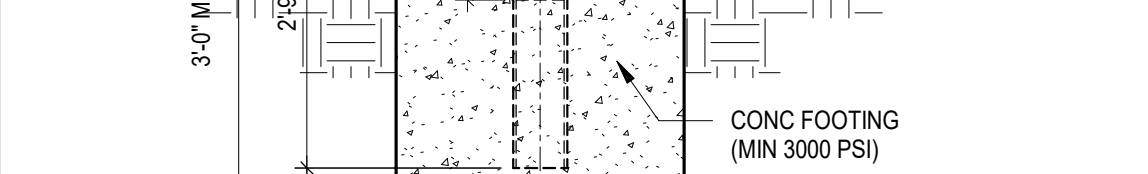
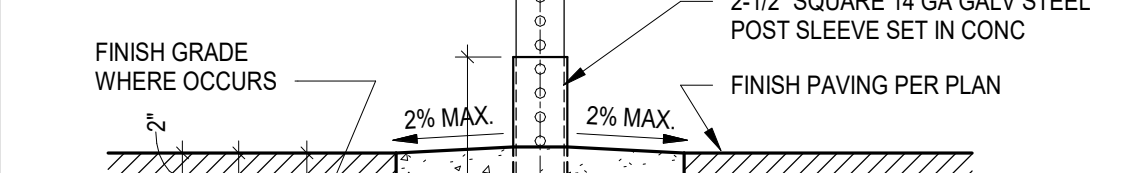
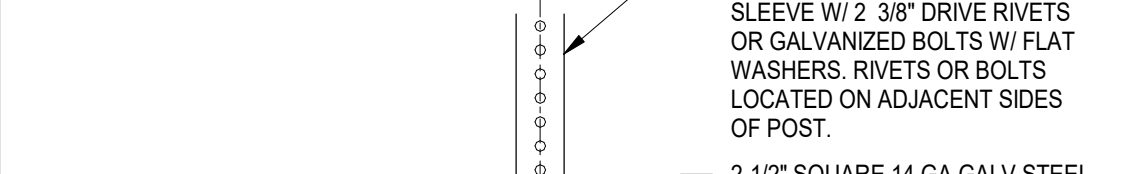
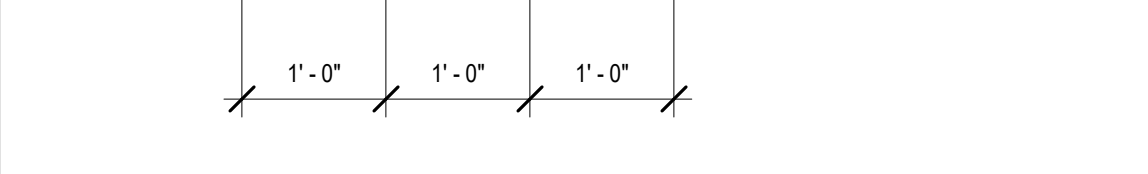
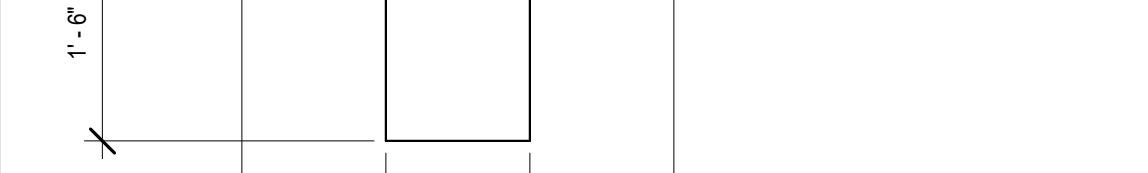
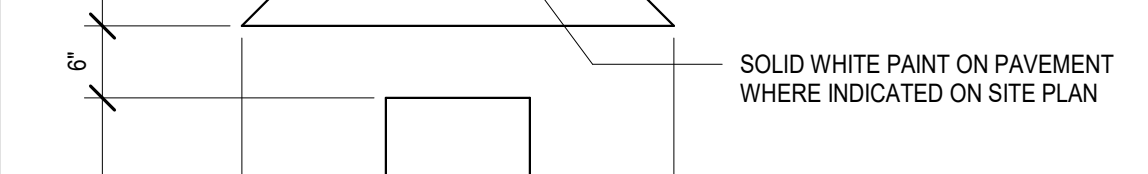
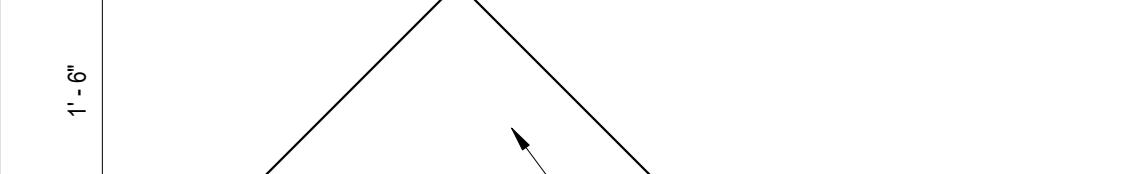
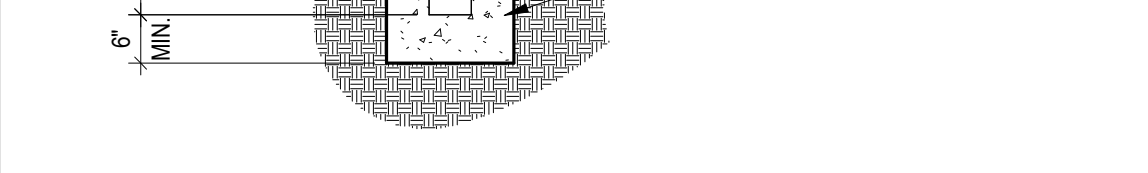
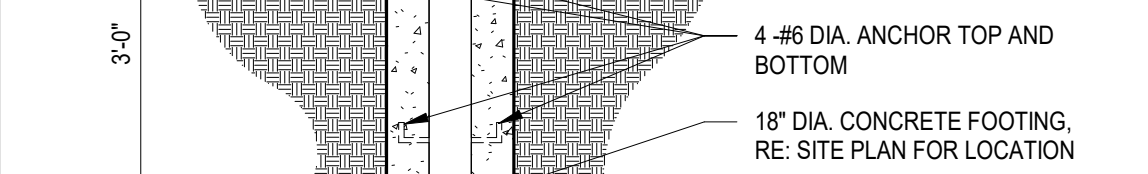
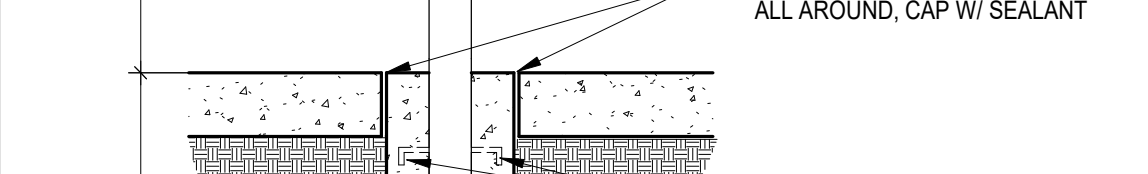
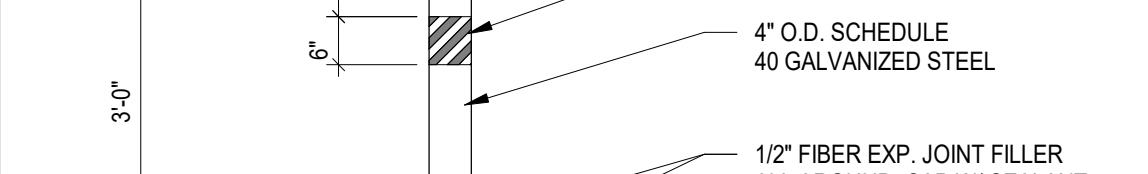
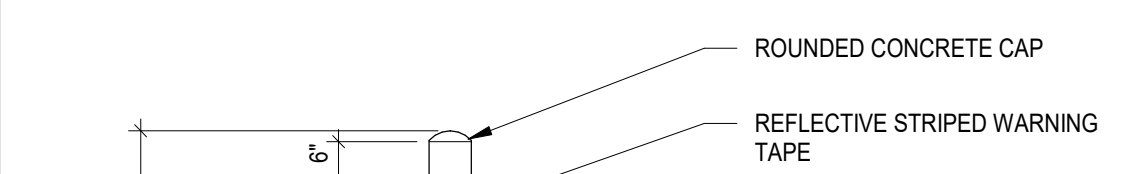
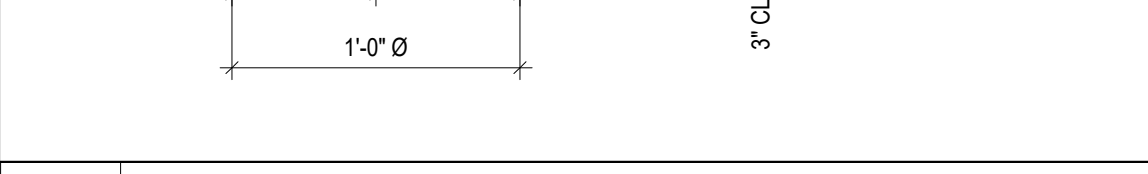
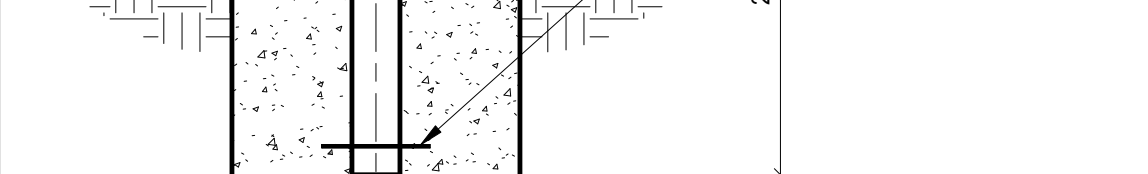
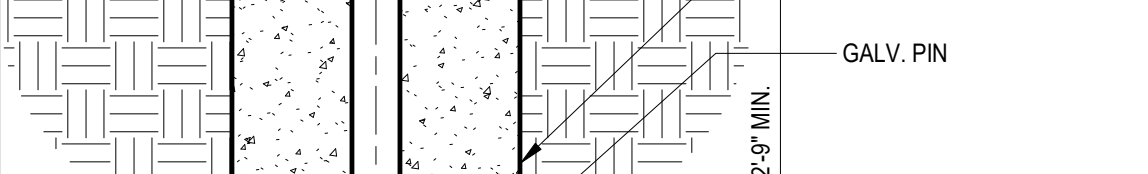
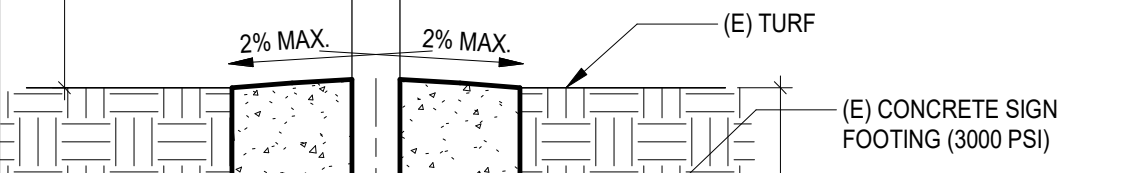
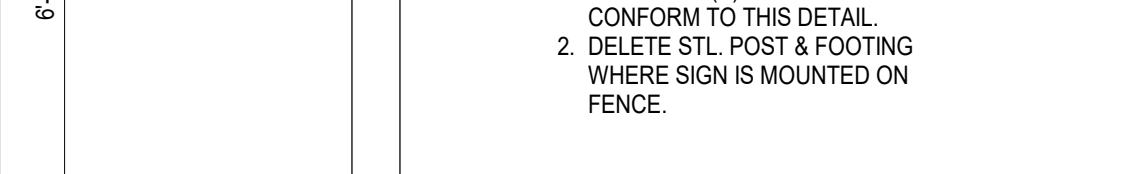
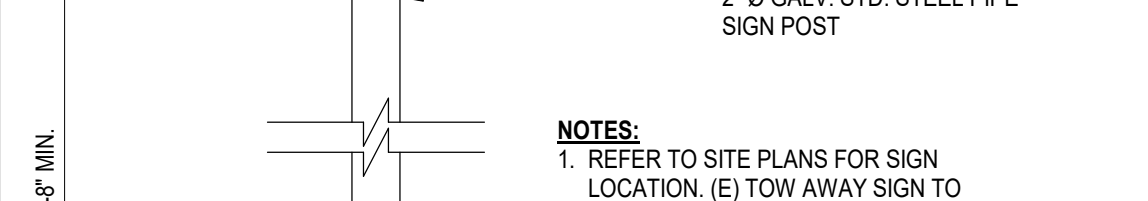
NOTES:
1. UNDERSIDE OF D.F. IS FREE OF SHARP OR ABRASIVE EDGES OR SURFACES
2. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM
3. CLEARANCES PER



23 EXISTING TOW AWAY SIGN

1 1/2" = 1'-0"

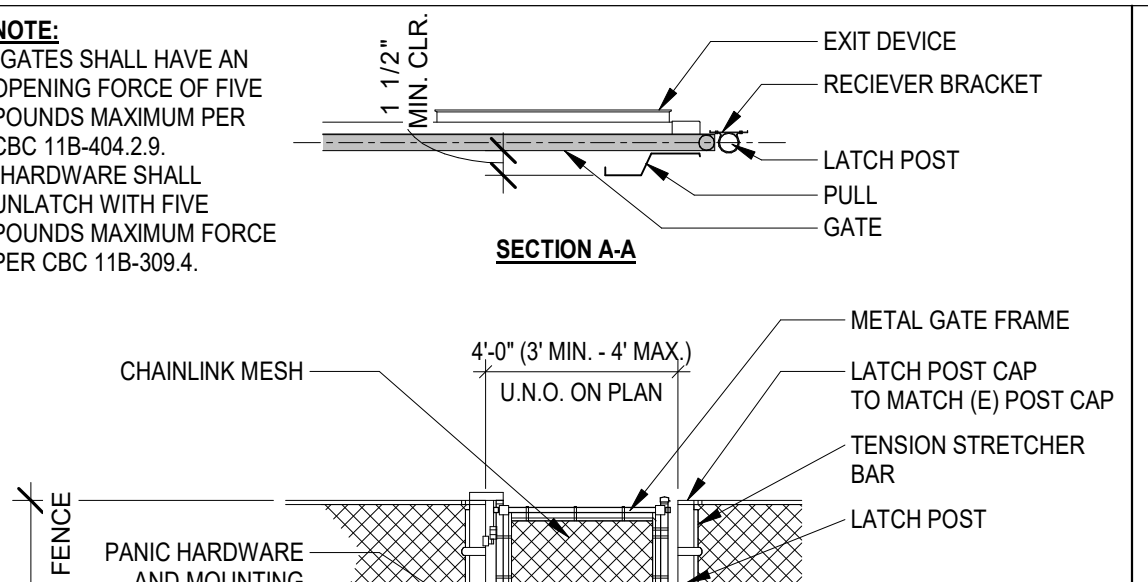
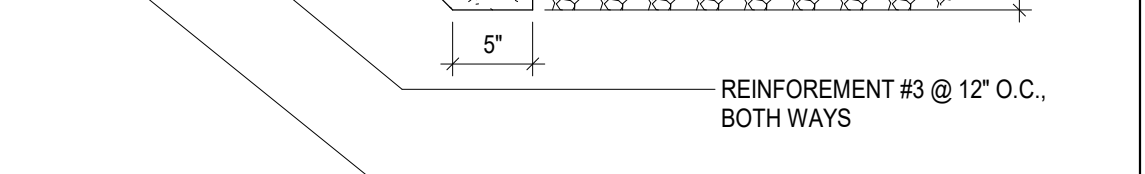
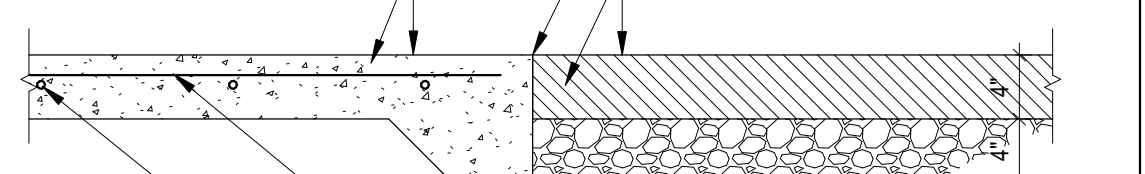
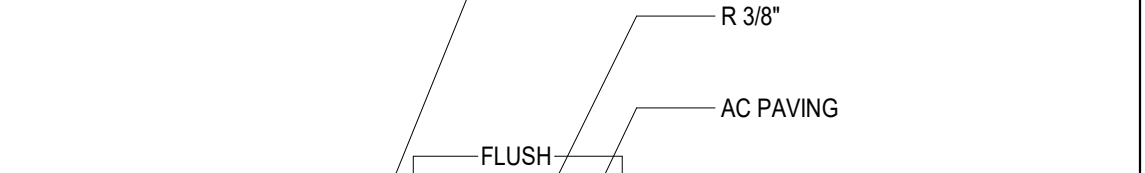
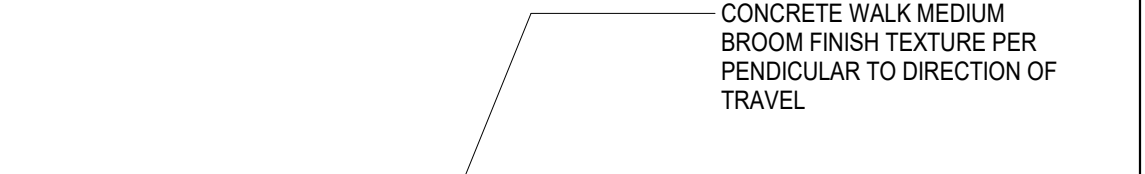
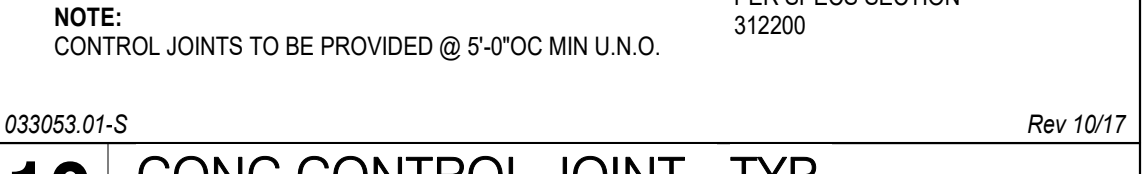
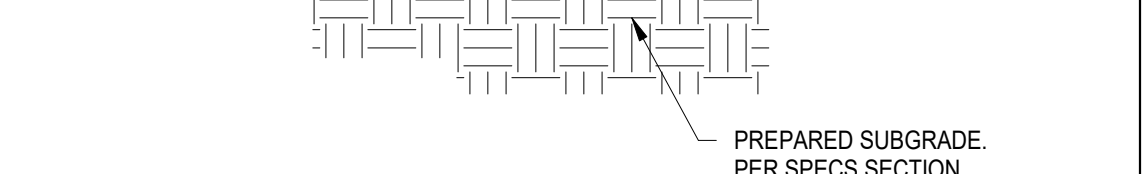
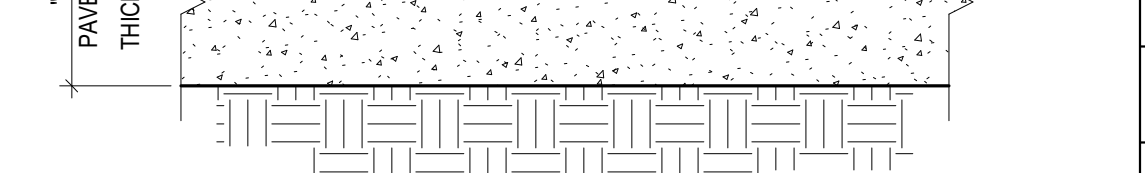
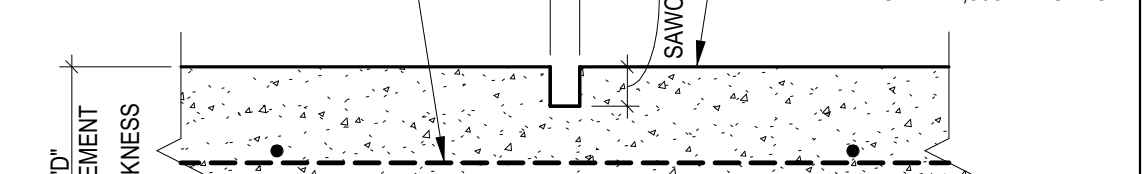
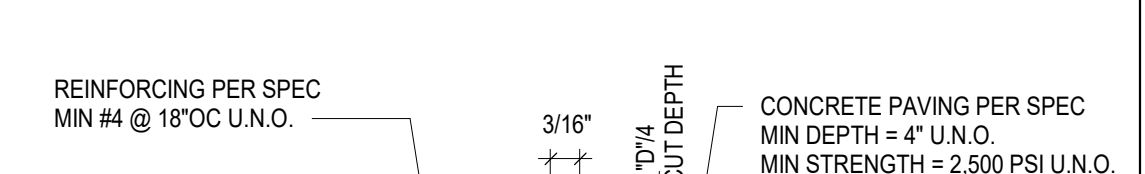
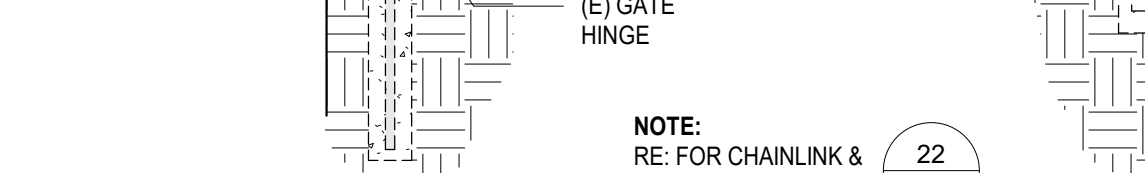
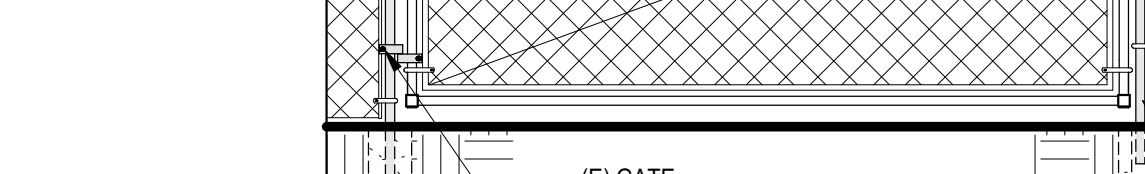
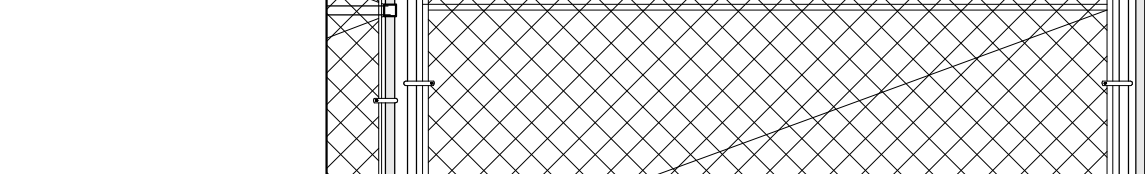
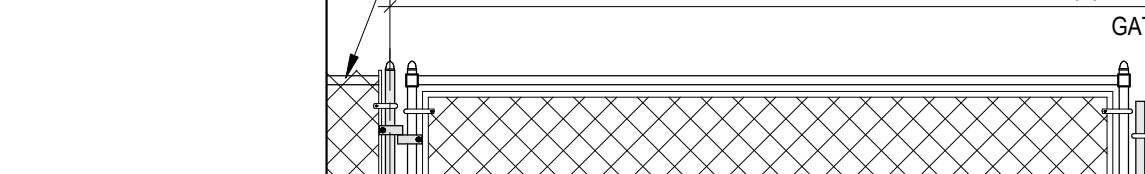
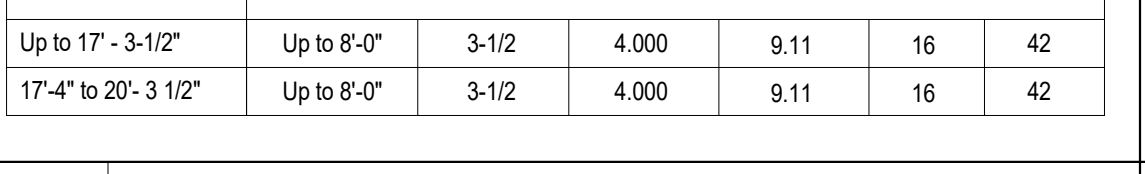
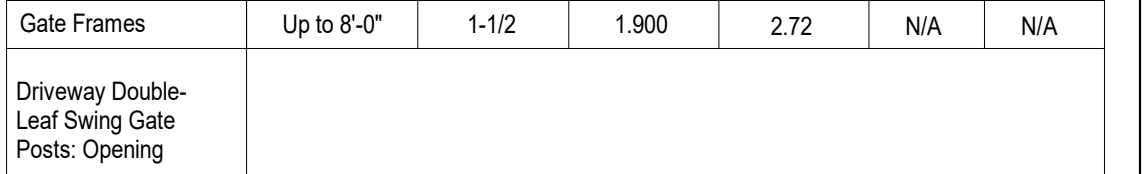
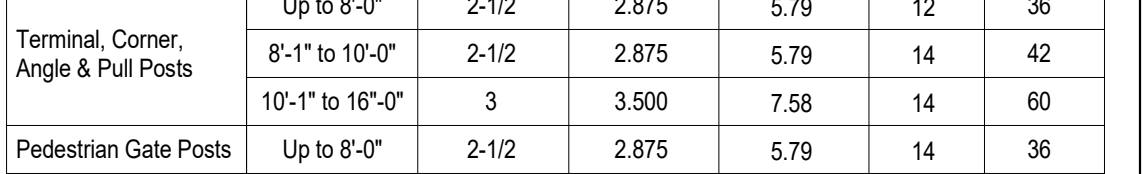
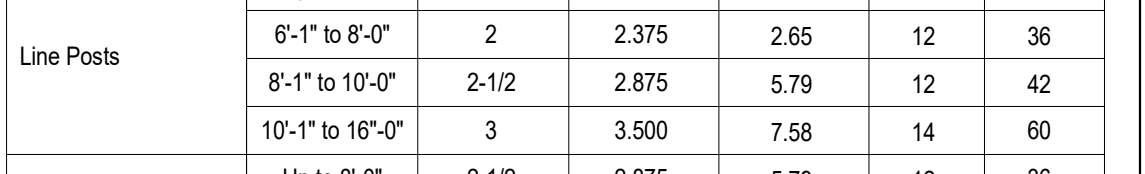
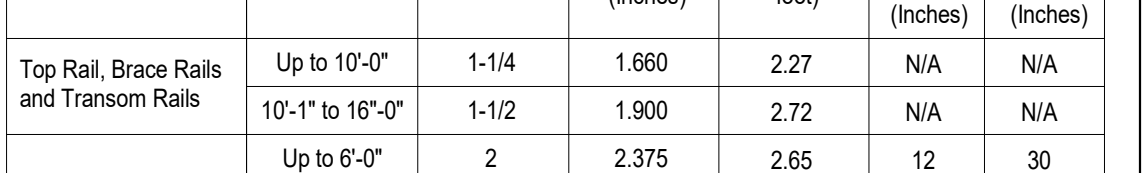
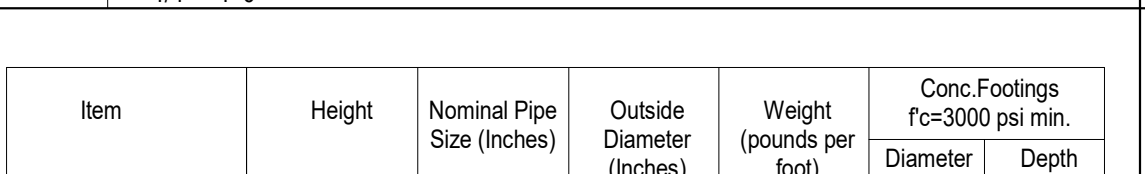
NOTES:
1. REFER TO SITE PLANS FOR SIGN LOCATION (E) TOW AWAY SIGN TO CONFORM TO THIS DETAIL
2. DELETE STL. POST & FOOTING WHERE SIGN IS MOUNTED ON FENCE.



28 DRINKING FOUNTAIN GUIDELINE

1/4" = 1'-0"

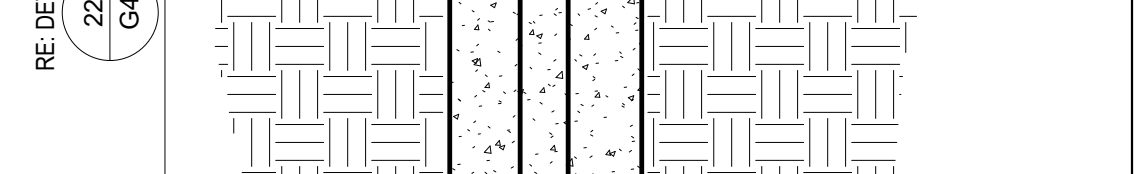
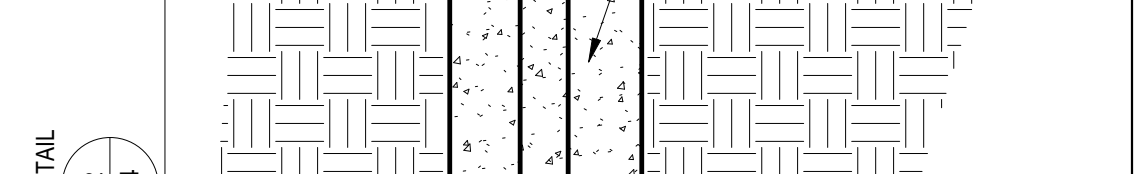
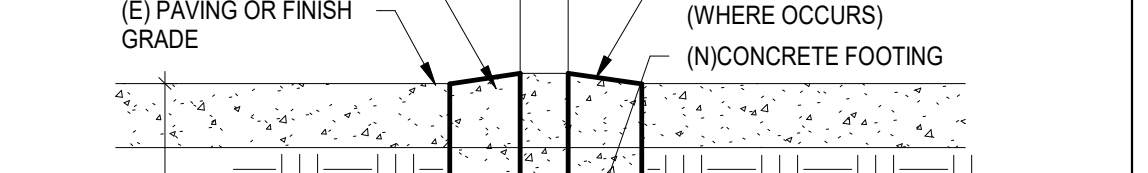
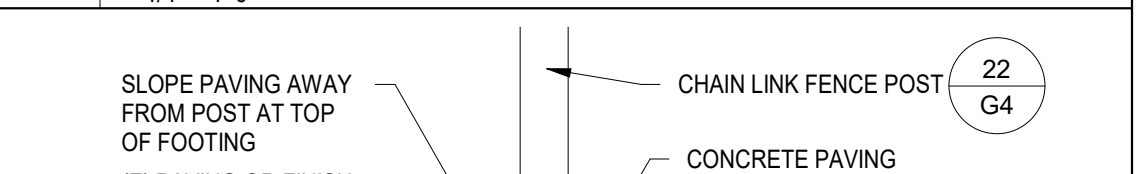
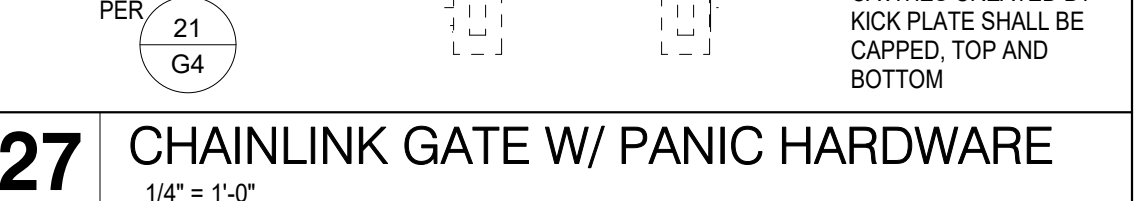
NOTES:
1. REFER TO SITE PLANS FOR SIGN LOCATION (E) TOW AWAY SIGN TO CONFORM TO THIS DETAIL
2. DELETE STL. POST & FOOTING WHERE SIGN IS MOUNTED ON FENCE.



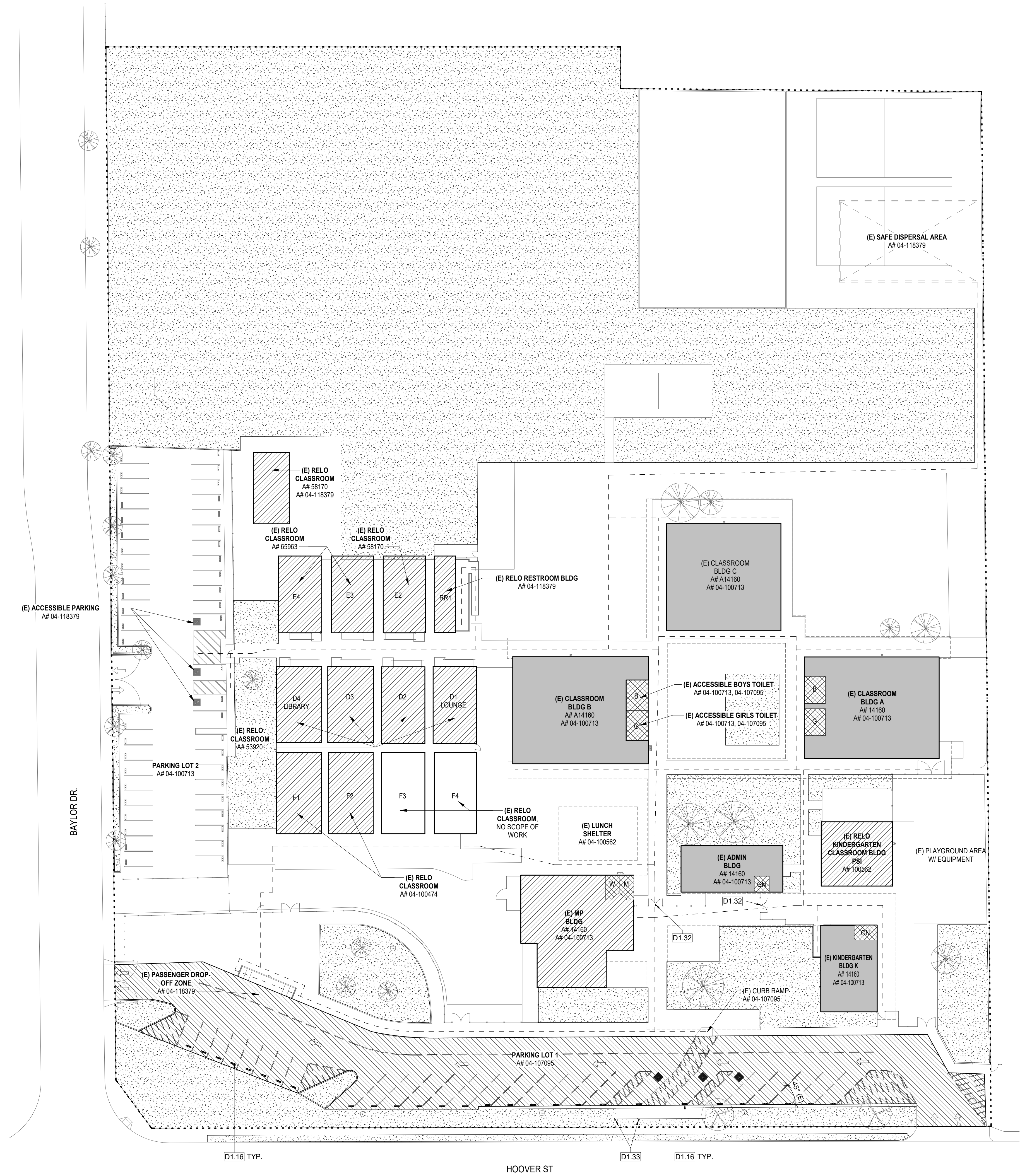
27 CHAINLINK GATE W/ PANIC HARDWARE

1/4" = 1'-0"

NOTES:
1. UNDERSIDE OF D.F. IS FREE OF SHARP OR ABRASIVE EDGES OR SURFACES
2. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM
3. CLEARANCES PER



0" 1"



SITE DEMOLITION KEYED NOTES

#	DESCRIPTION
D1.16	REMOVE (E) CONCRETE WHEEL STOP
D1.32	REMOVE (E) DOUBLE-LEAF ORNAMENTAL METAL GATES & PREPARE FOR (N) DOUBLE-LEAF ORNAMENTAL METAL GATES W/ PANIC HARDWARE PER ACCESSIBILITY SITE PLAN
D1.33	REMOVE (E) ACCESSIBLE PARKING SIGNAGE

SITE DEMOLITION LEGEND

- (E) PATH OF TRAVEL
PER AF 53919, 65233, 04-100879, 04-102560, 04-107165, 04-110234, 04-114892.
- PROPERTY LINE
- (E) BUILDING FIRE ALARM SCOPE ONLY
- (E) BUILDING TO BE REMODELED
- (E) BUILDING NIC, NO SCOPE OF WORK
- ACCESSIBLE RESTROOM TO BE PROVIDED AS PART OF THE CONTRACT
RR = GENDER NEUTRAL RESTROOM
B = BOYS
G = GIRLS
S = STAFF
- AREAS OF MODIFICATION
- AREA OF (E) ASPHALT TO BE PREPARED FOR (N) SLURRY COAT

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 CABLING 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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK

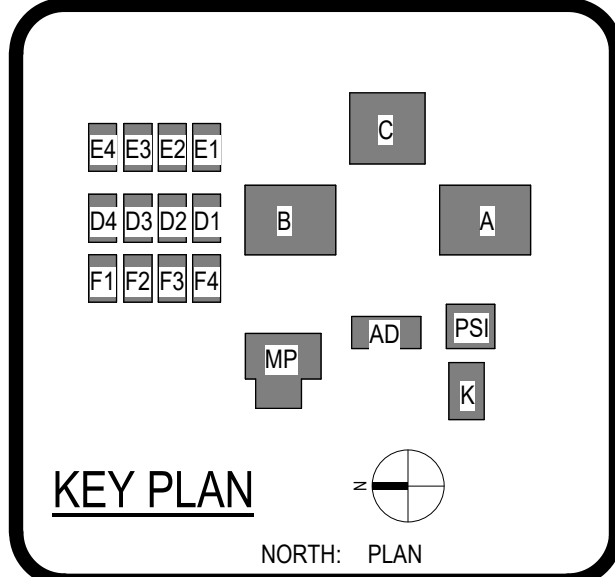
ARCHITECT PBK Architects, Inc.
ANAHEIM
2400 E. Katella Ave. #950
Anaheim, CA 92806
P 949-548-5000
PBK.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

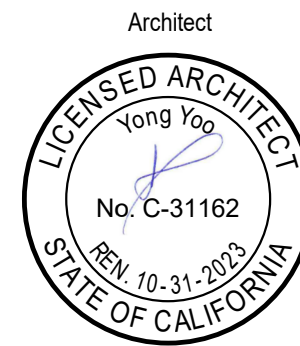
PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL. NO. 04-121818 DSA FILE NO. 30-43



Consultant

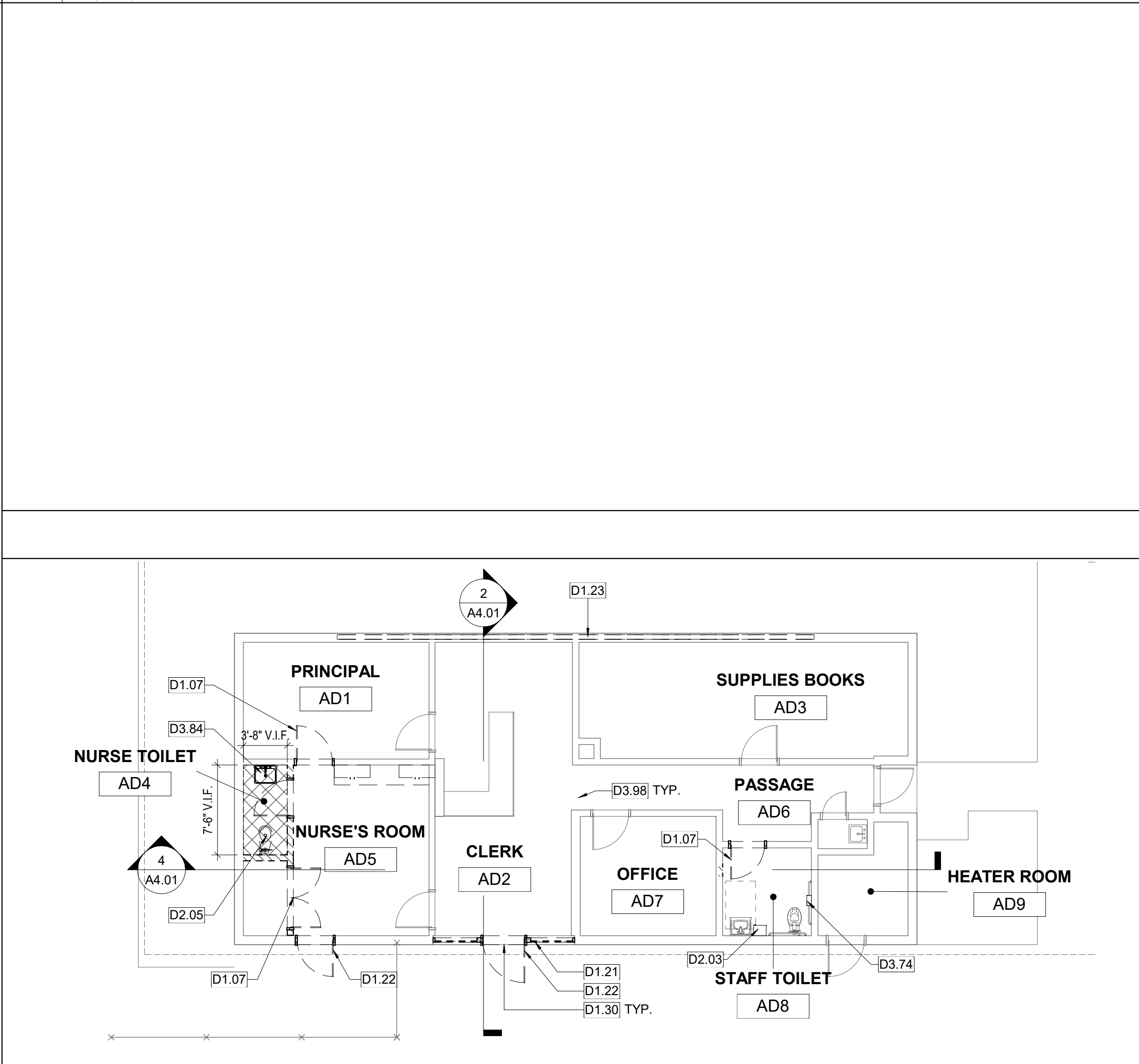
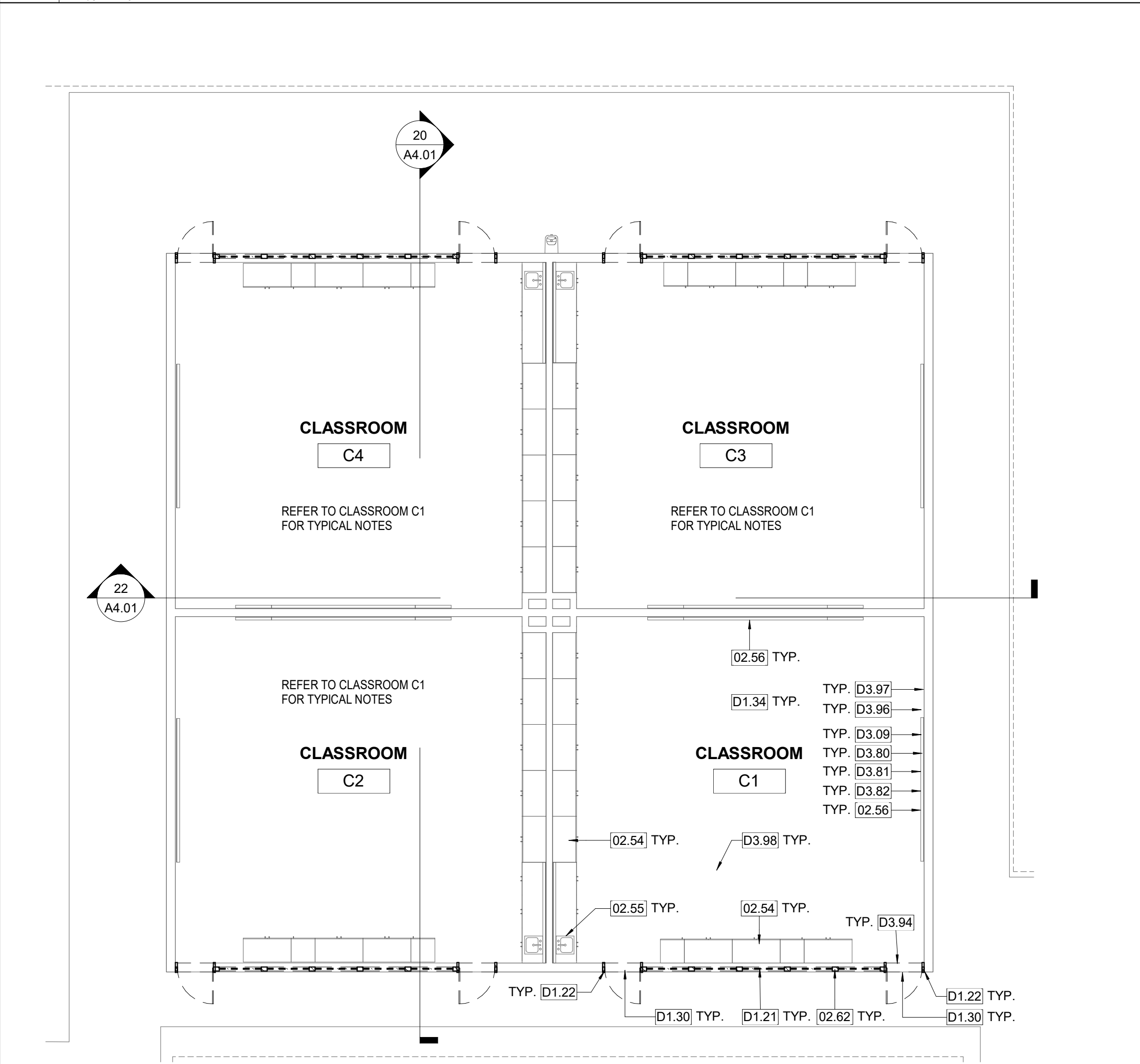
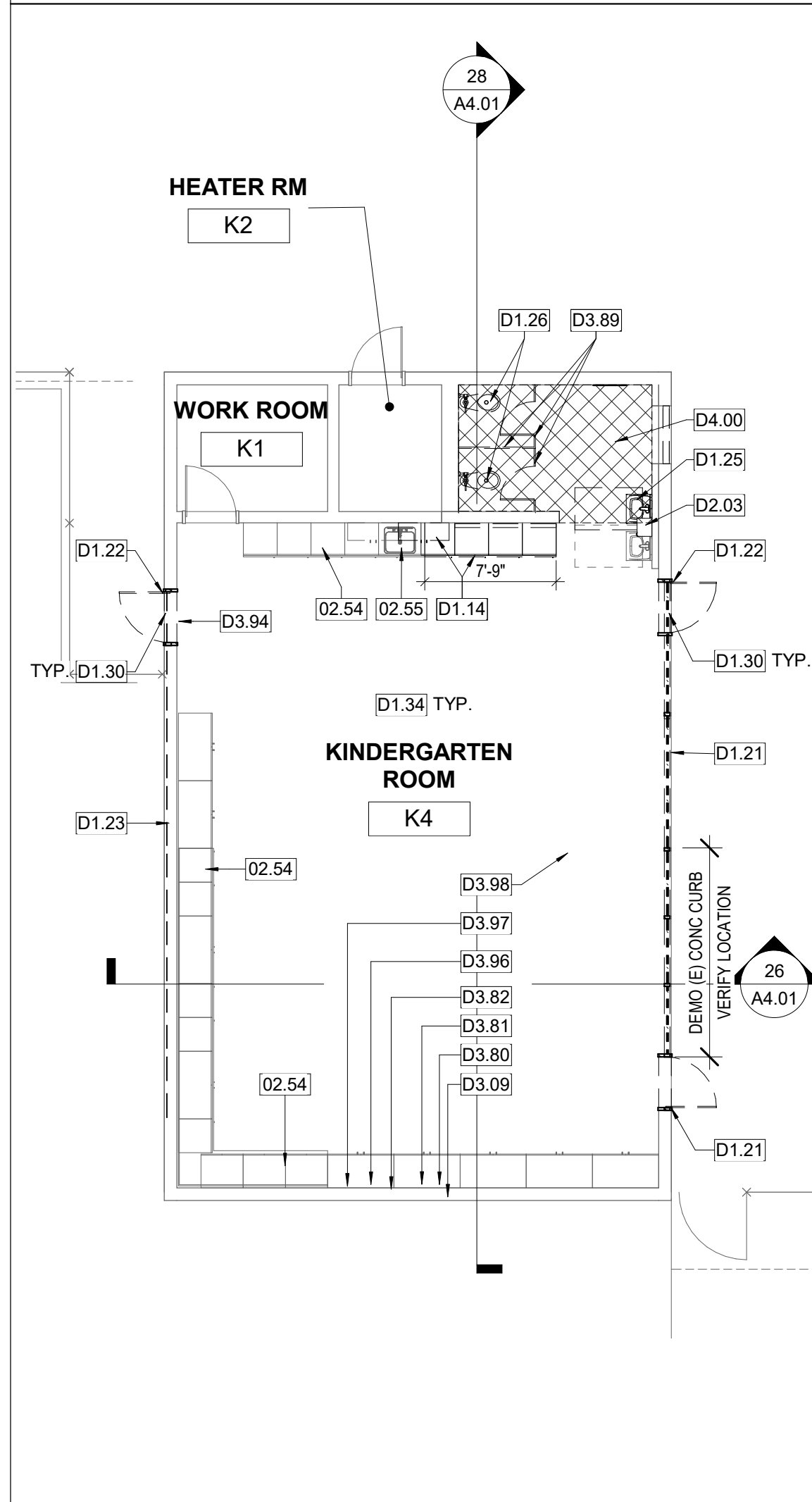


CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-29-2022	220309	
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

SITE DEMOLITION PLAN

D0.1



IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 04-121818 INC.

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 08/11/2023

PBK

ARCHITECT

ANAHAIM
2400 E. KATELINA AVE. #550
Anahaim, CA 92806
P 949-548-5000

PBK.com

PROJECT ADDRESS:

14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO. 04-121818
DSA FILE NO. 30-43

WESTMINSTER
SCHOOL DISTRICT

E4

E3

E2

E1

D4

D3

D2

D1

F1

F2

F3

F4

C

B

A

MP

AD

PSI

K

KEY PLAN

NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT

Yong Kim

No. C-31162

Exp. 10-31-2025

STATE OF CALIFORNIA

CLIENT

WESTMINSTER SCHOOL DISTRICT

DATE
12-29-2022

PROJECT NUMBER
2210309

REVISIONS

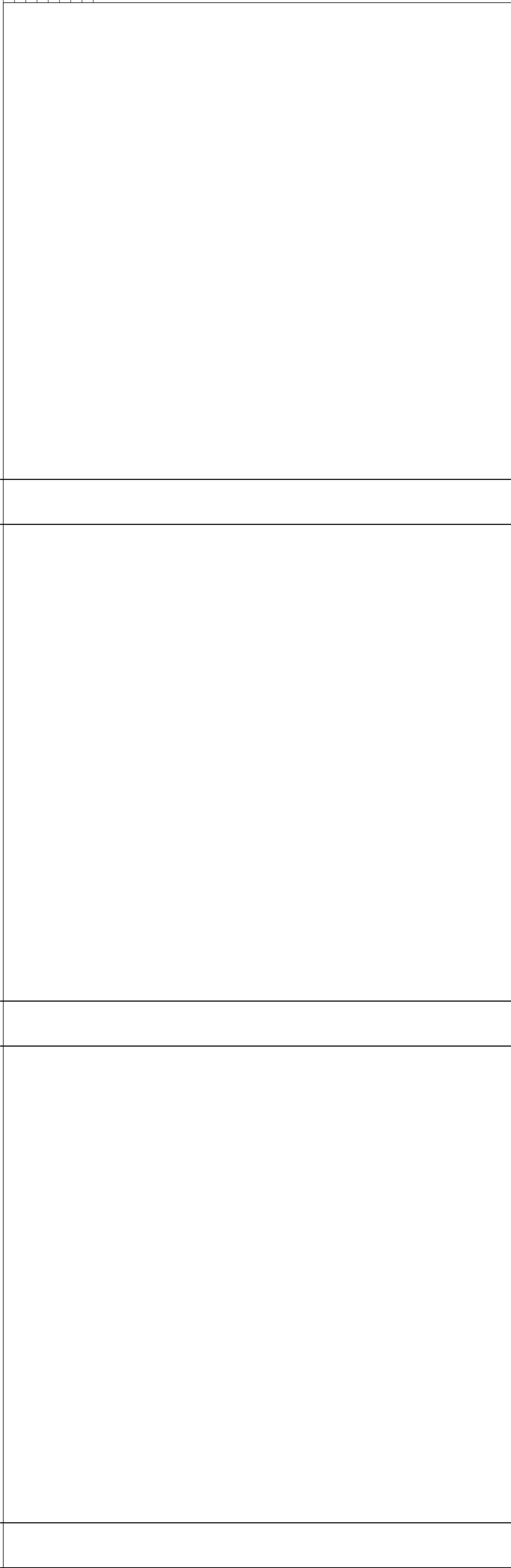
No.	Description	Date

DSA SUBMITTAL

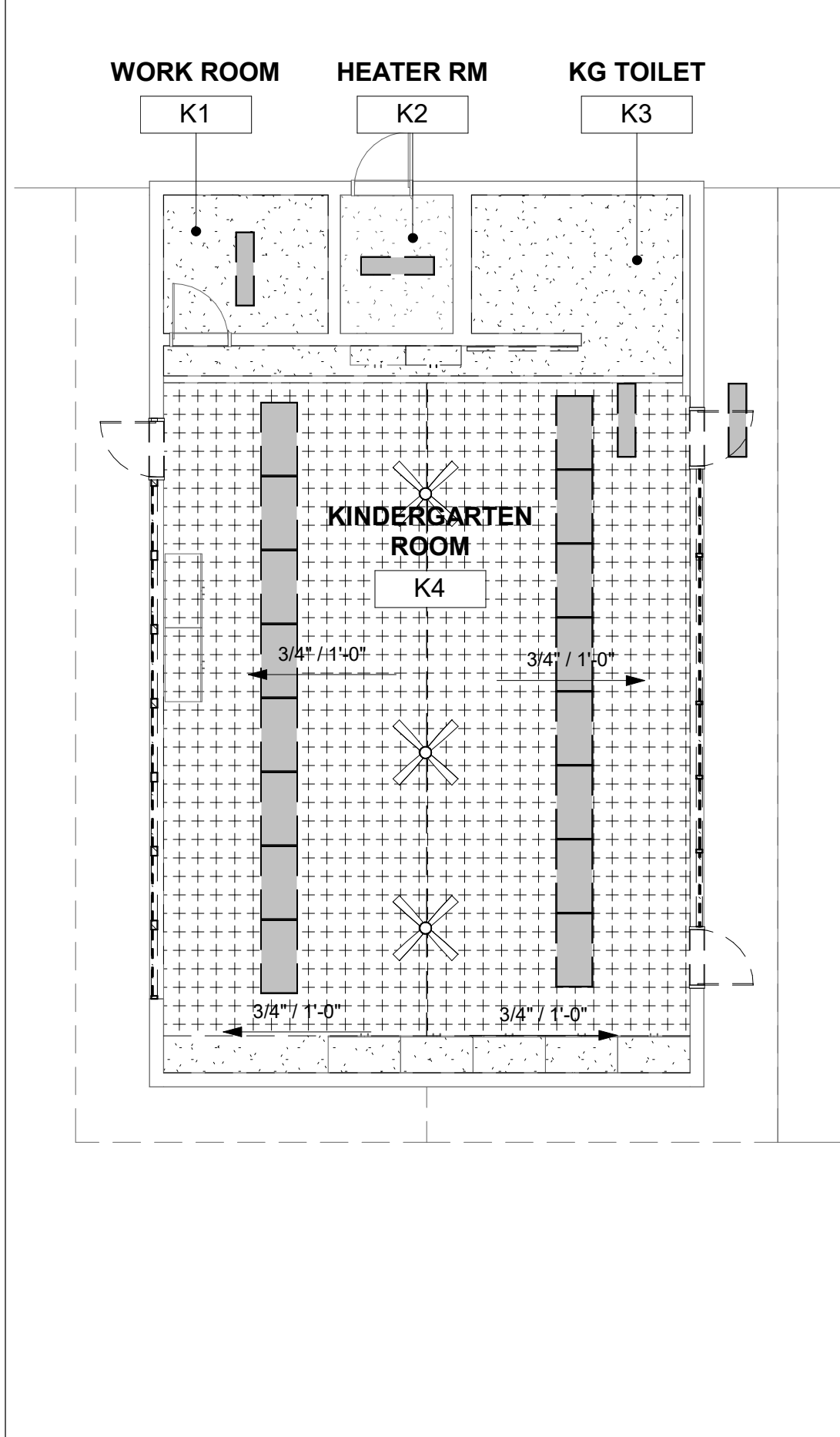
DEMO FLOOR PLAN

BLDG ADMIN. A,B,C&K

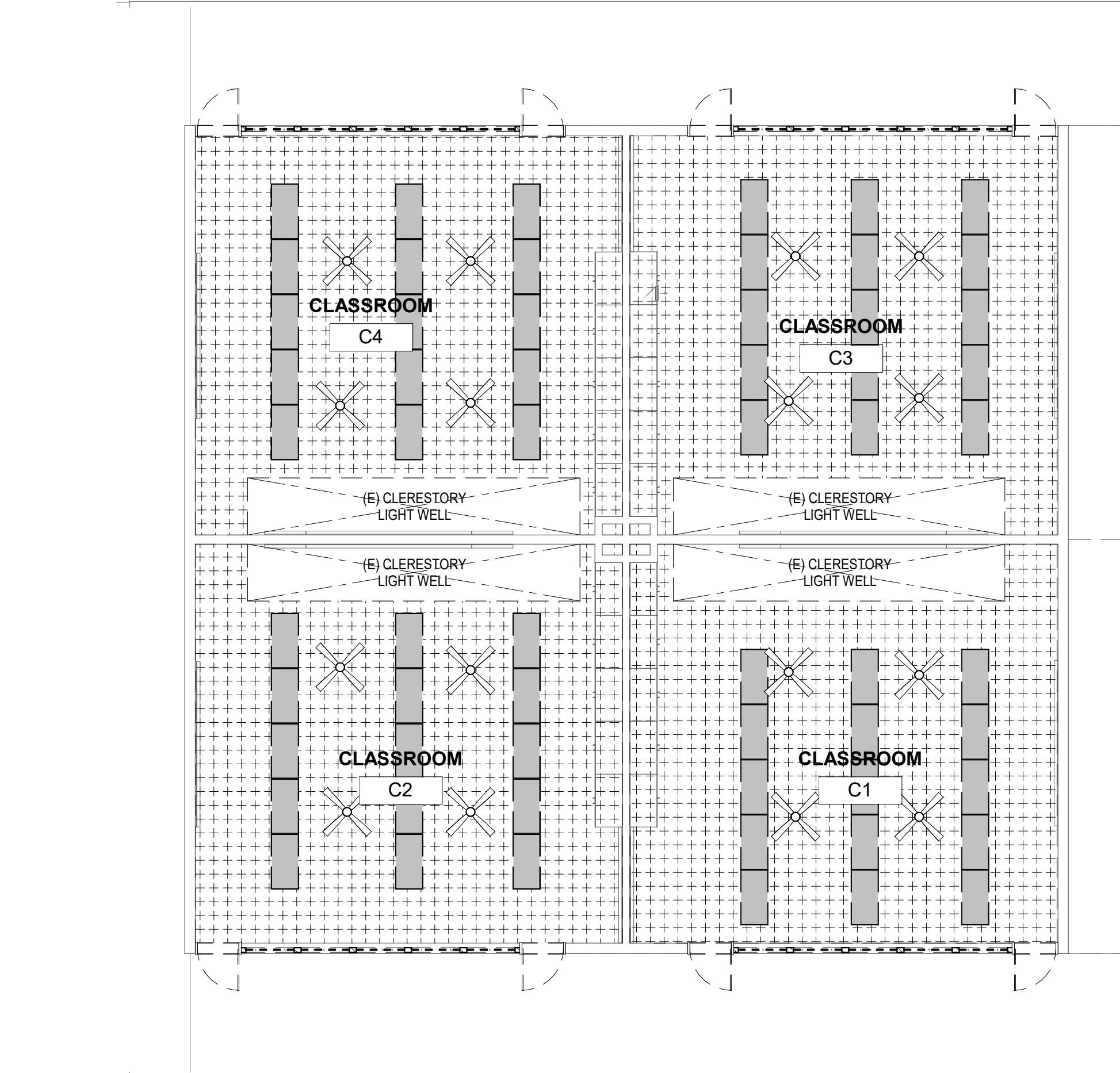
D1.1



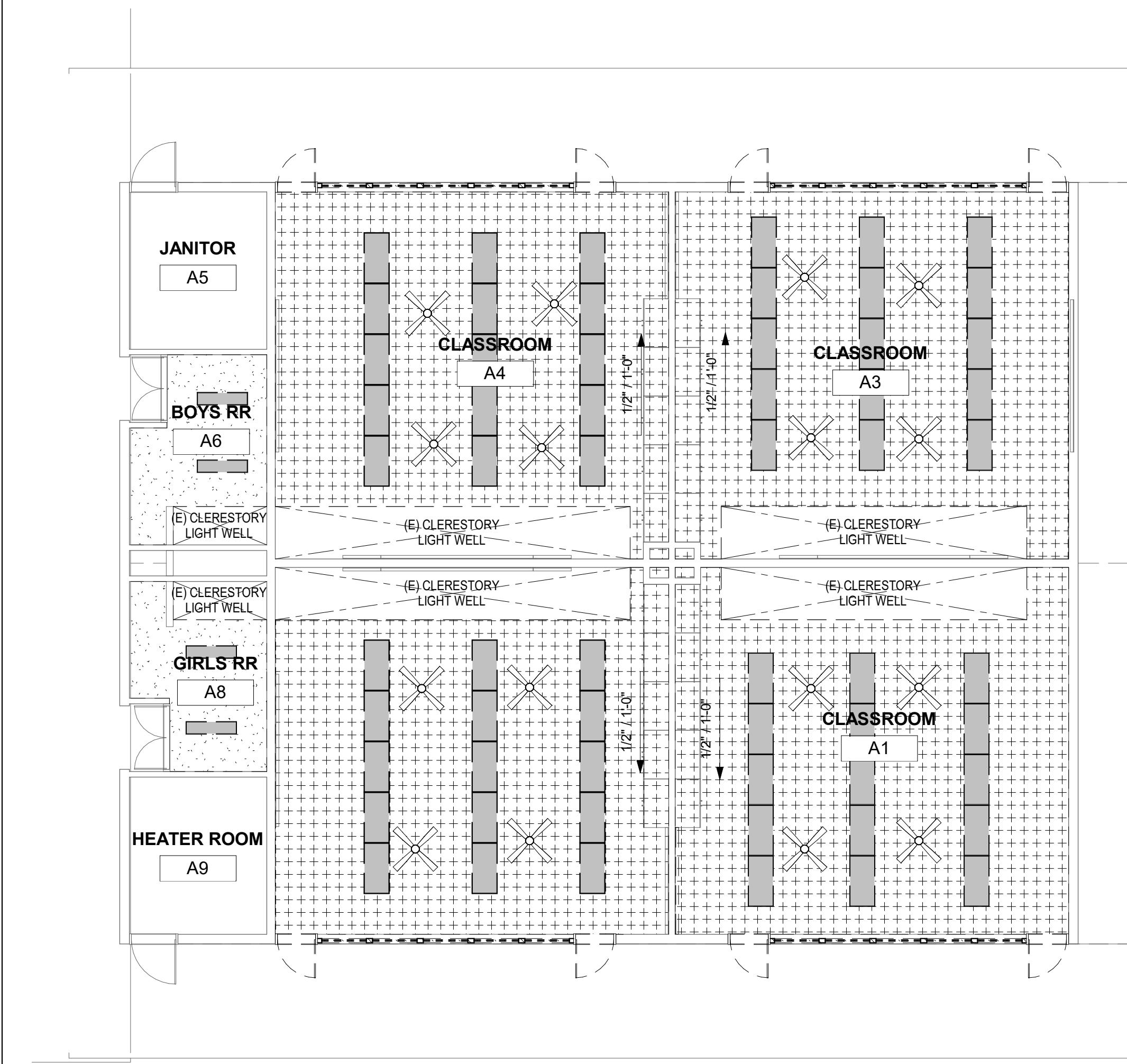
17 DEMO RCP BLDG B
1/8" = 1'-0"



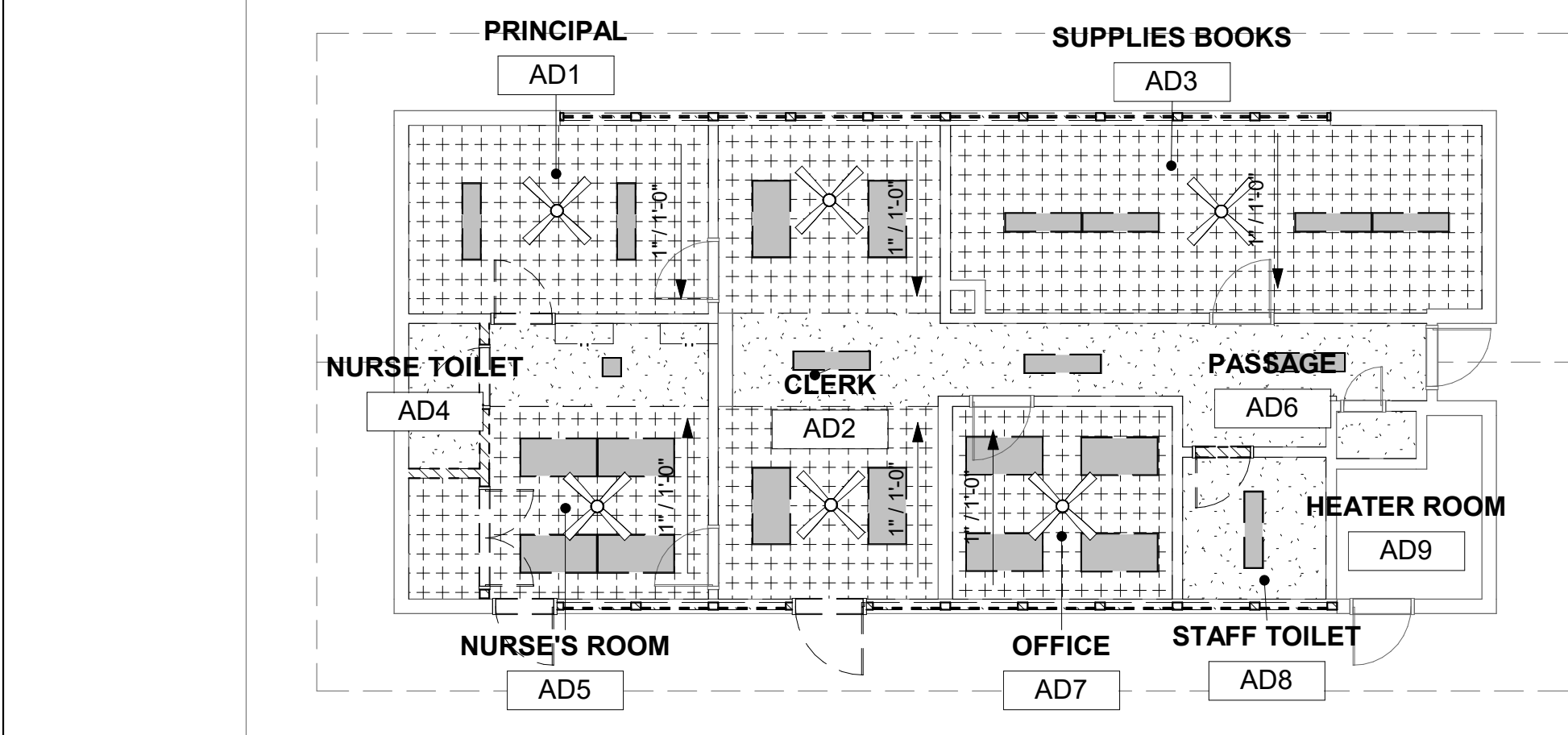
6 DEMO RCP BLDG K
1/8" = 1'-0"



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



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



3 DEMO RCP BLDG ADMIN
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

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

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St.
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL. NO. 04-121818 DSA FILE NO. 30-43

DEMOLITION RCP LEGEND

EXISTING PLASTER 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

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.

GENERAL DEMOLITION NOTES

1. 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.

2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.

3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING. PRIOR TO COMMENCING WITH WORK.

4. 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.

5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.

6. 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.

7. CONTRACTOR SHALL NOT SCALE DRAWINGS.

8. 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.

9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.

10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.

11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.

12. 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).

13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.

14. 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 REPAIRED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.

15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

16. 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.

17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.

18. 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 BUILDING. THOSE CIRCUITS 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 MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.

19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.

20. 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, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.

21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.

22. CONTRACTOR SHALL COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

BUILDING MPE NOTES

1. EXISTING GAS AND WATER PIPES. REMOVE AND REPLACE ANY RUSTED OR DETERIORATED PIPES, VALVES AND YARD BOXES TO REMAIN.

2. RELOCATE / RE-ROUTE ANY ELECTRICAL CONDUITS AND LOW VOLTAGE RACEWAYS AND WIRING ABOVE & BELOW CEILING TO ACCOMMODATE NEW WORK.

3. RELOCATE / RE-ROUTE ANY VENT PIPES INTERFERING WITH NEW WORK.

4. REMOVE AND DISPOSE OLD VENT AND SPEAKERS NO LONGER IN USE.

5. REMOVE AND DISPOSE ELECTRICAL CABLING AND DEVICES NOT IN USE.

6. REMOVE AND DISPOSE FAU HEATING UNITS IN EACH ROOM AND ALL ASSOCIATED DUCTWORK, REGISTERS, CONDUITS AND WIRING.

7. REMOVE PROJECTORS IN WORKROOM AND LIBRARY ROOMS RETURN TO DISTRICT

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PROJECT ADDRESS:
14142 Hoover St.
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL. NO. 04-121818 DSA FILE NO. 30-43

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

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ARCHITECT
ANAHEIM
2400 E. Katella Ave. #950
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WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309

REVISIONS
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DEMO REFLECTED CEILING PLAN BLDG ADMIN. A,B,C&K

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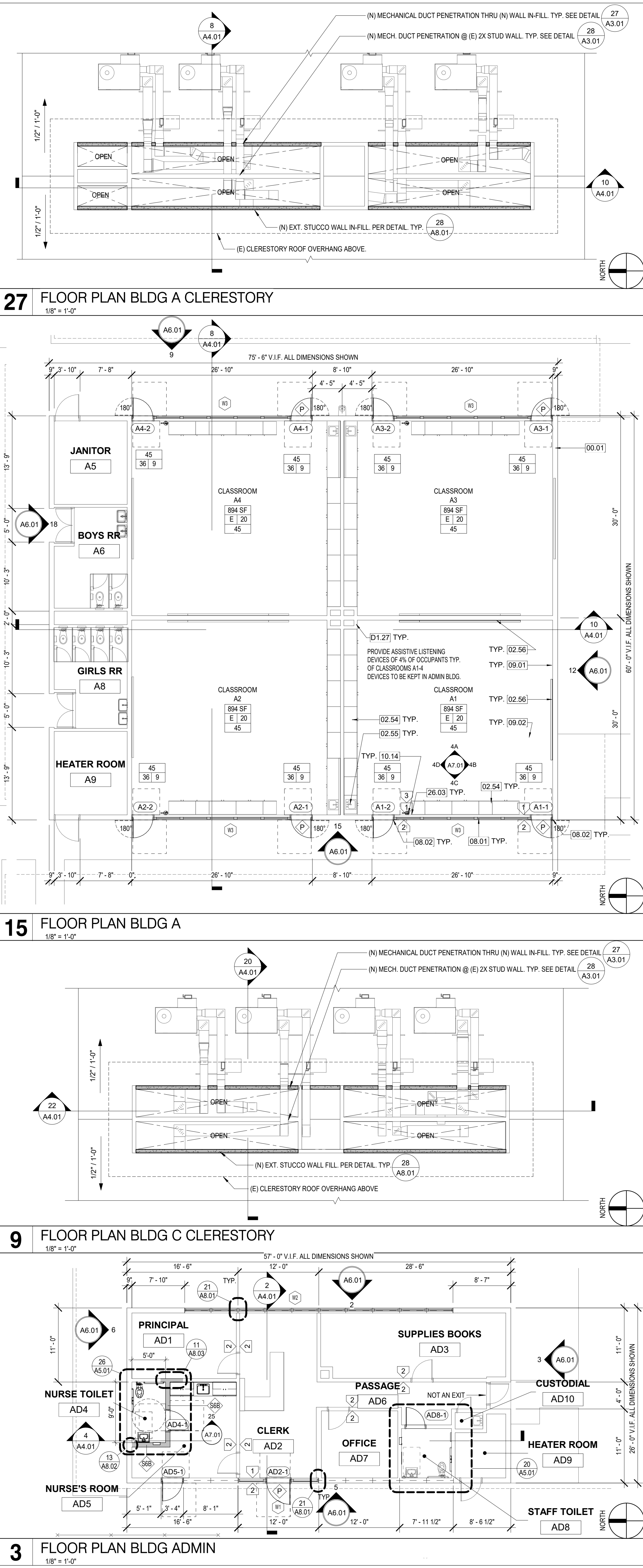
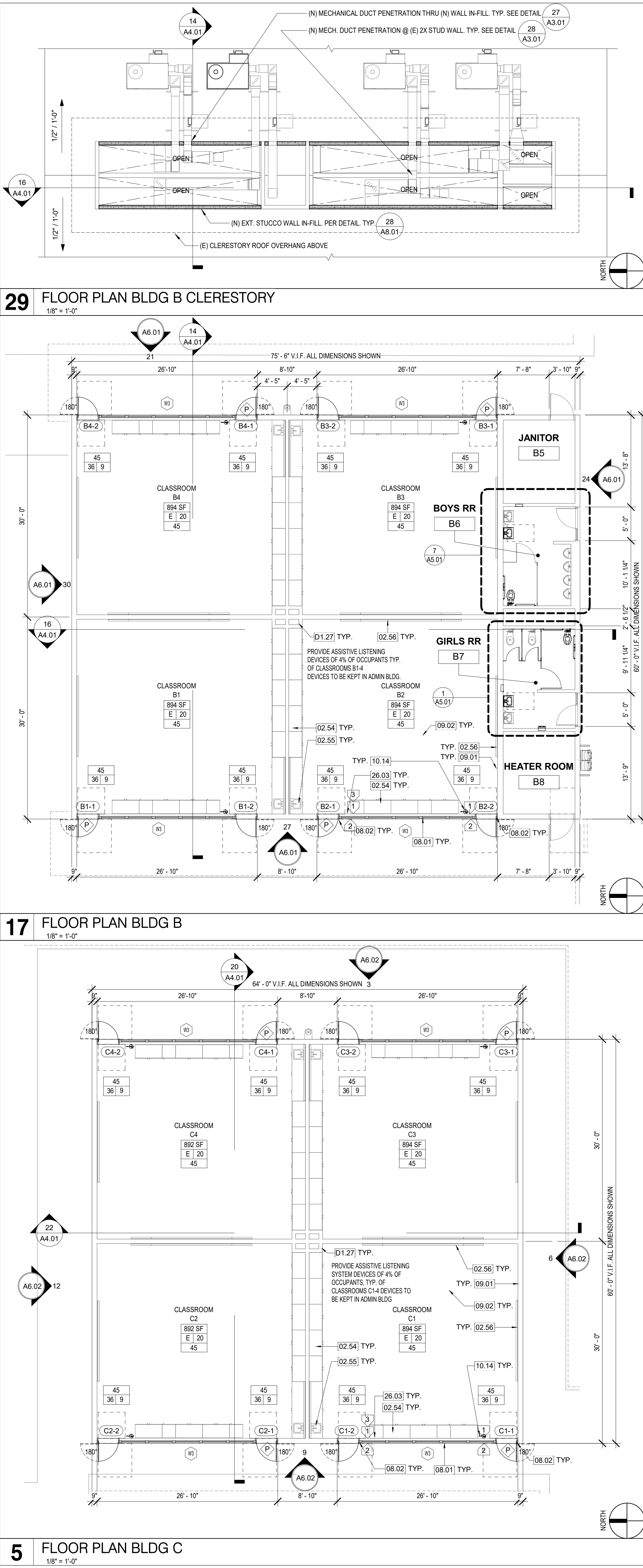
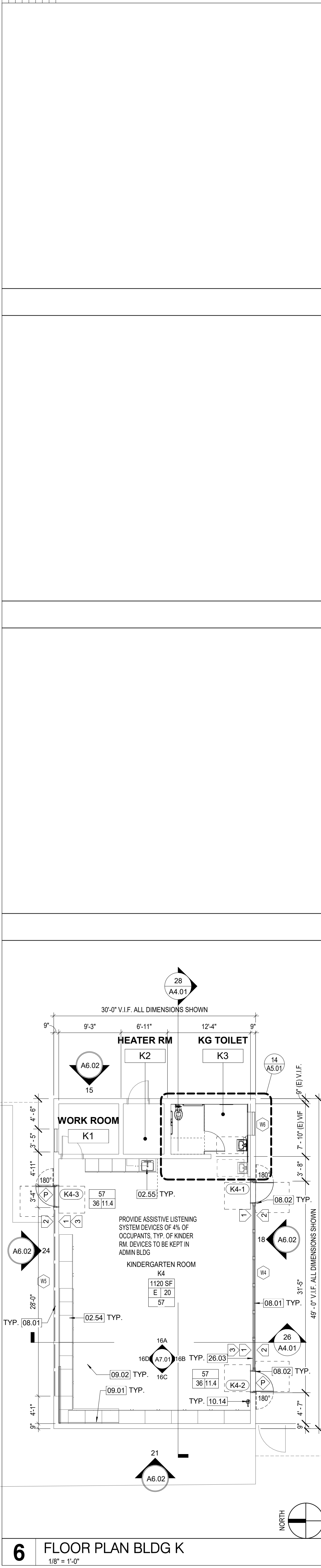
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CONSTRUCTION KEYED NOTES

00.01 INSERT TEXT
02.54 (E) CASEWORK TO REMAIN, RE-PAIN & PROTECT IN PLACE.
02.55 (E) ACCESSIBLE SINK TO REMAIN, PROTECT IN PLACE.
02.56 (E) MARKER/TACKBOARD TO BE REMOVED & REPLACED WITH NEW
08.01 (N) ALUMINUM FRAME & GLAZING WINDOW SYSTEM SEE WINDOWS FRAMING ELEVATION A8.01, PER ALUMINUM-FRAMED STOREFRONT & ALUMINUM WINDOWS & GLAZING SPEC SECTIONS 084143, 085100, & 086500 RESPECTIVELY.
08.02 (N) INTEGRAL ALUMINUM FRAME DOOR SYSTEM SEE FRAMING ELEVATION A9.01 & DOOR SCHEDULE, PER ALUMINUM-FRAMED STOREFRONT & DOOR SPEC SECTIONS 084143 & 087100 RESPECTIVELY.
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 16/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 OF 4 COLORS TO BE SELECTED BY THE ARCHITECTS.
2. GENERAL CONTRACTOR TO NOTIFY AND DOCUMENT ANY AREAS WITH DRYROT AND / OR TERMITE DAMAGE IN WRITTEN FORMAT PRIOR TO BID.
3. PROVIDE APPROPRIATE PREPARATION, CLEANING AND BASE MATERIAL AT EXISTING EXTERIOR FINISHES BEFORE RECEIVING NEW FINISHES. PER FINISH SPECIFICATION.

GENERAL ARCH PLAN NOTES

1. REFER TO CIVIL DOCUMENTS
2. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS
3. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% FOR A HORIZ. DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O.
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCH. PRIOR TO POURING OF CONCRETE
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCH. PRIOR TO INSTALLATION OF SITE SIGNAGE
10. CONTRACTOR SHALL COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

REMODEL PLAN LEGEND

EXISTING WALL TO REMAIN
NEW NON-BEARING WALL TO BE PROVIDED, SEE 3 SD1 5 SD1
(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
INDICATES CORE WIDTH
LETTER INDICATES CORE TYPE (S-STUD)
CLASSROOM
400 ROOM NAME
960 ROOM NUMBER
E 20 ROOM AREA (SQ. FT.)
148 ROOM OCCUPANT
OCCUPANCY TYPE
100 COMBINED EXIT LOAD
32 20 REQUIRED CLEAR EXIT WIDTH (N INCHES)
PROVIDED CLEAR EXIT WIDTH (N 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.

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 (#)
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

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DATE: 08/11/2023

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

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

KEY PLAN
NORTH: PLAN

Consultant

Architect
Vong Yoo
No C-31162
STATE OF CALIFORNIA

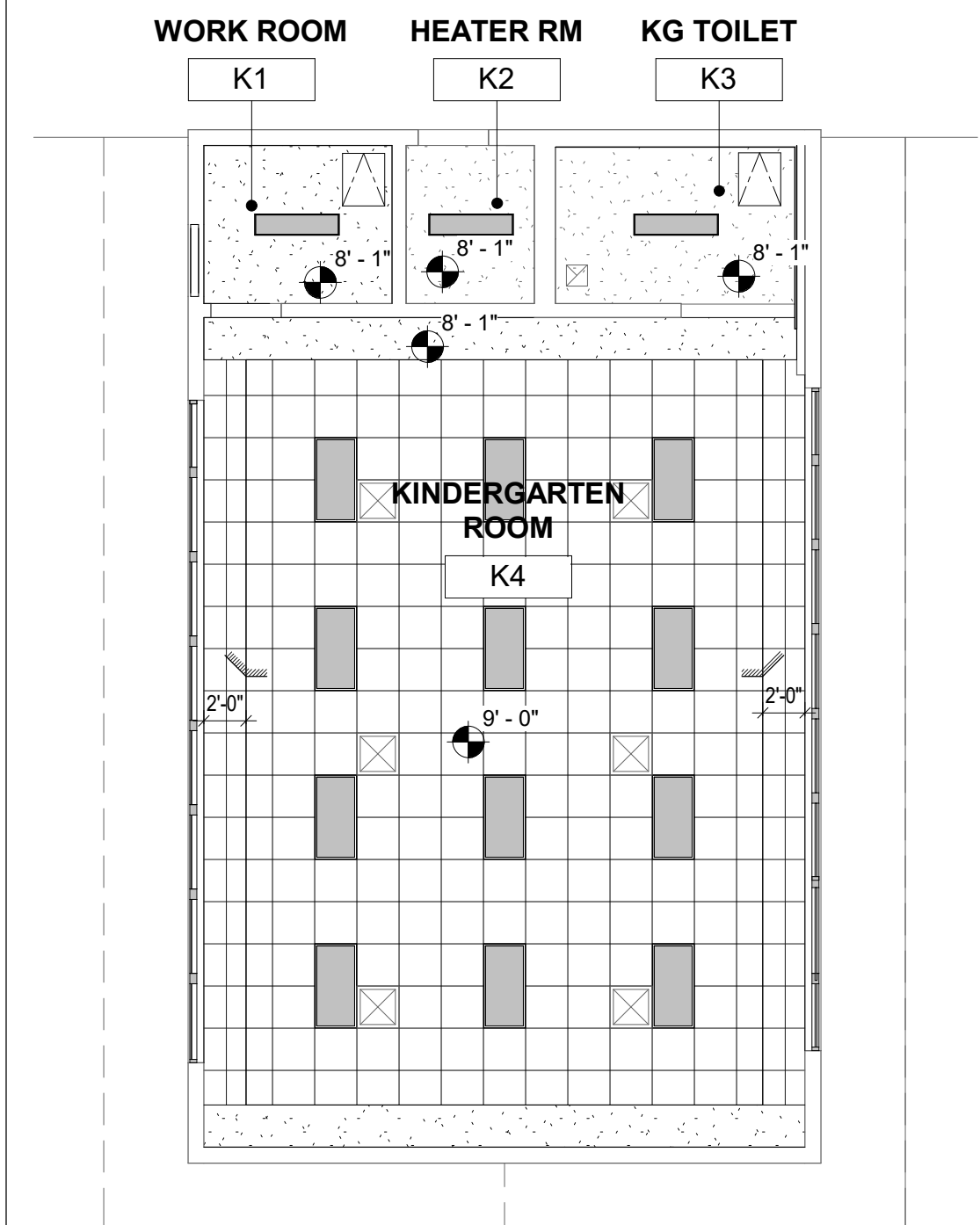
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WESTMINSTER SCHOOL DISTRICT
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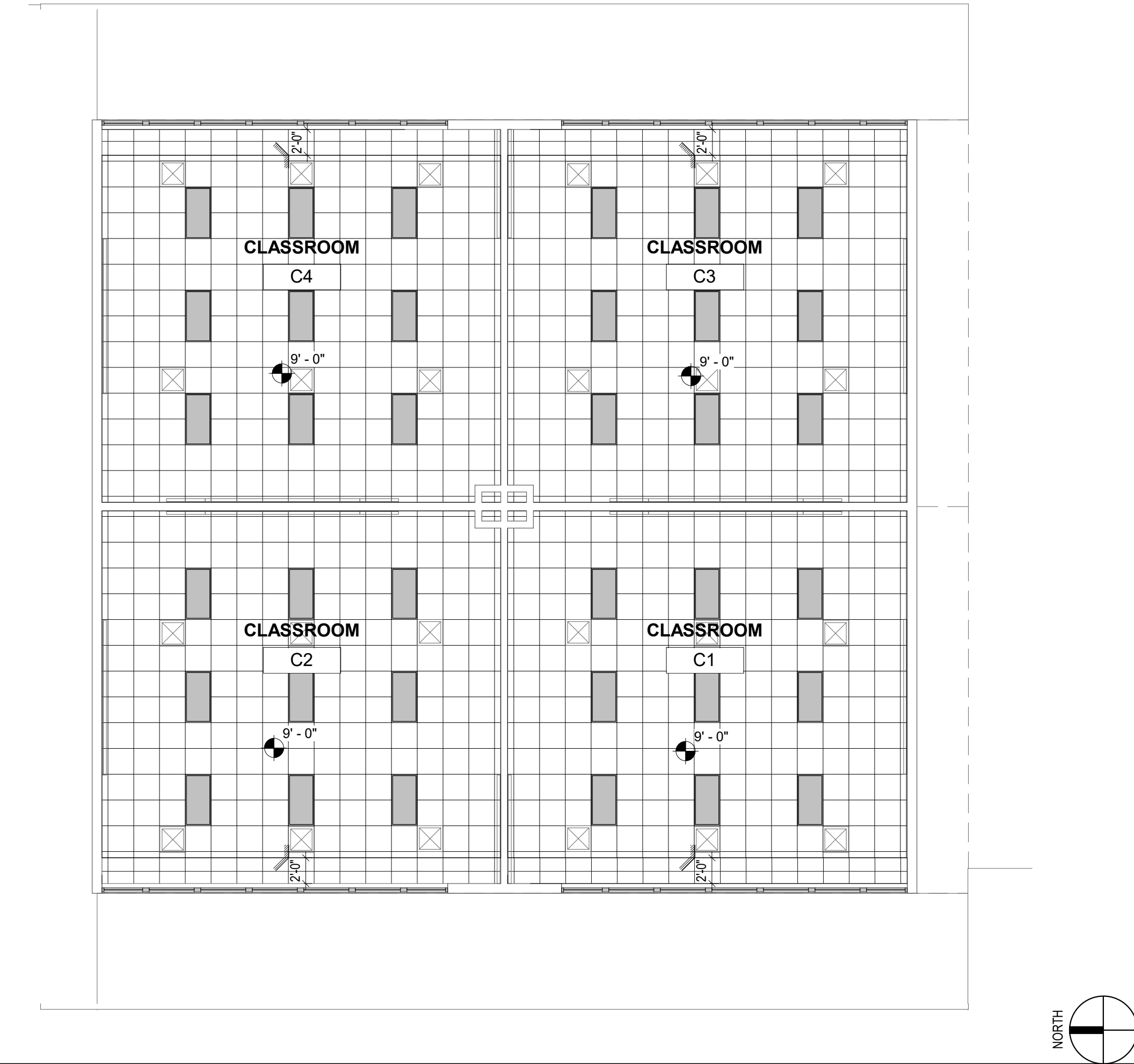
DSA SUBMITTAL

FLOOR PLANS BLDG ADMIN, A,B,C&K

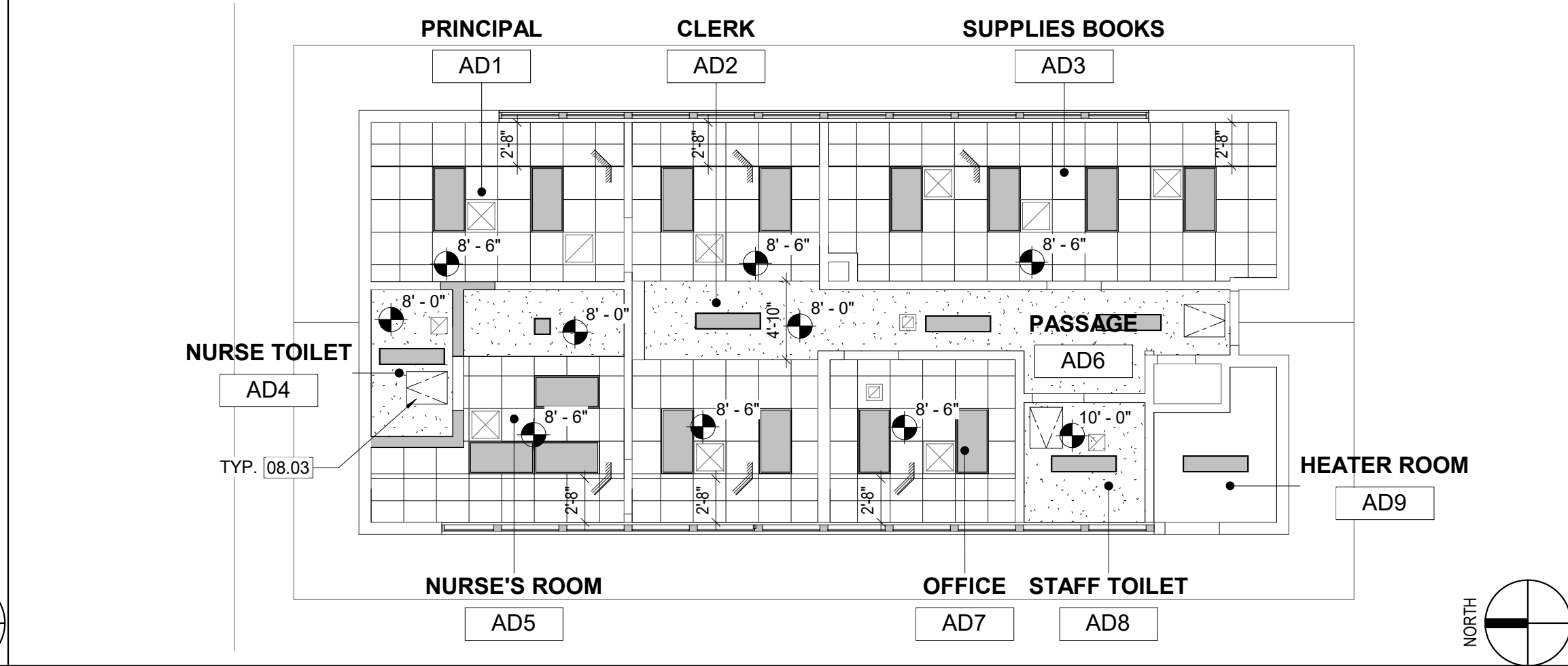
A1.01



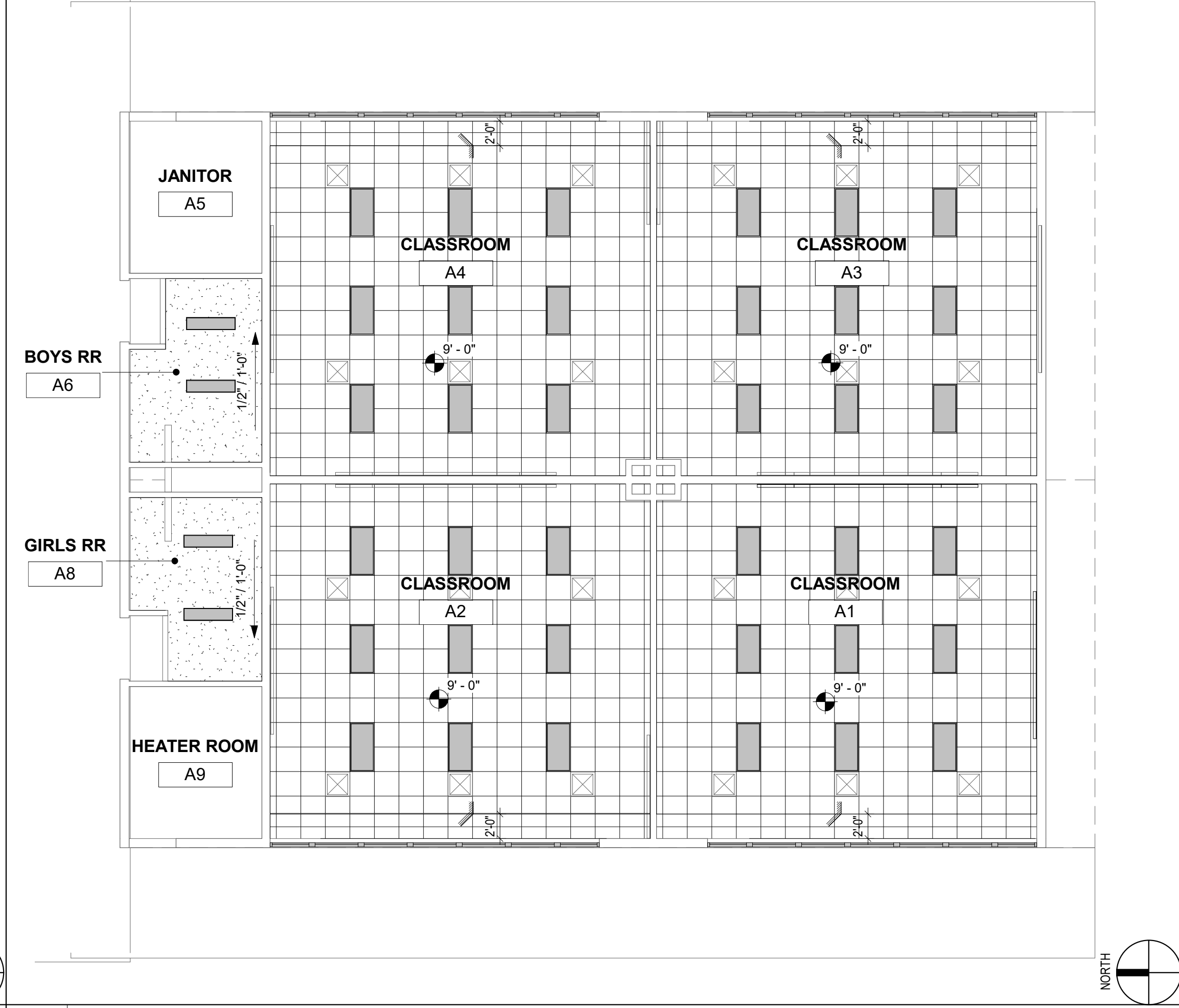
6 REFLECTED CEILING PLAN BLDG K
1/8" = 1'-0"



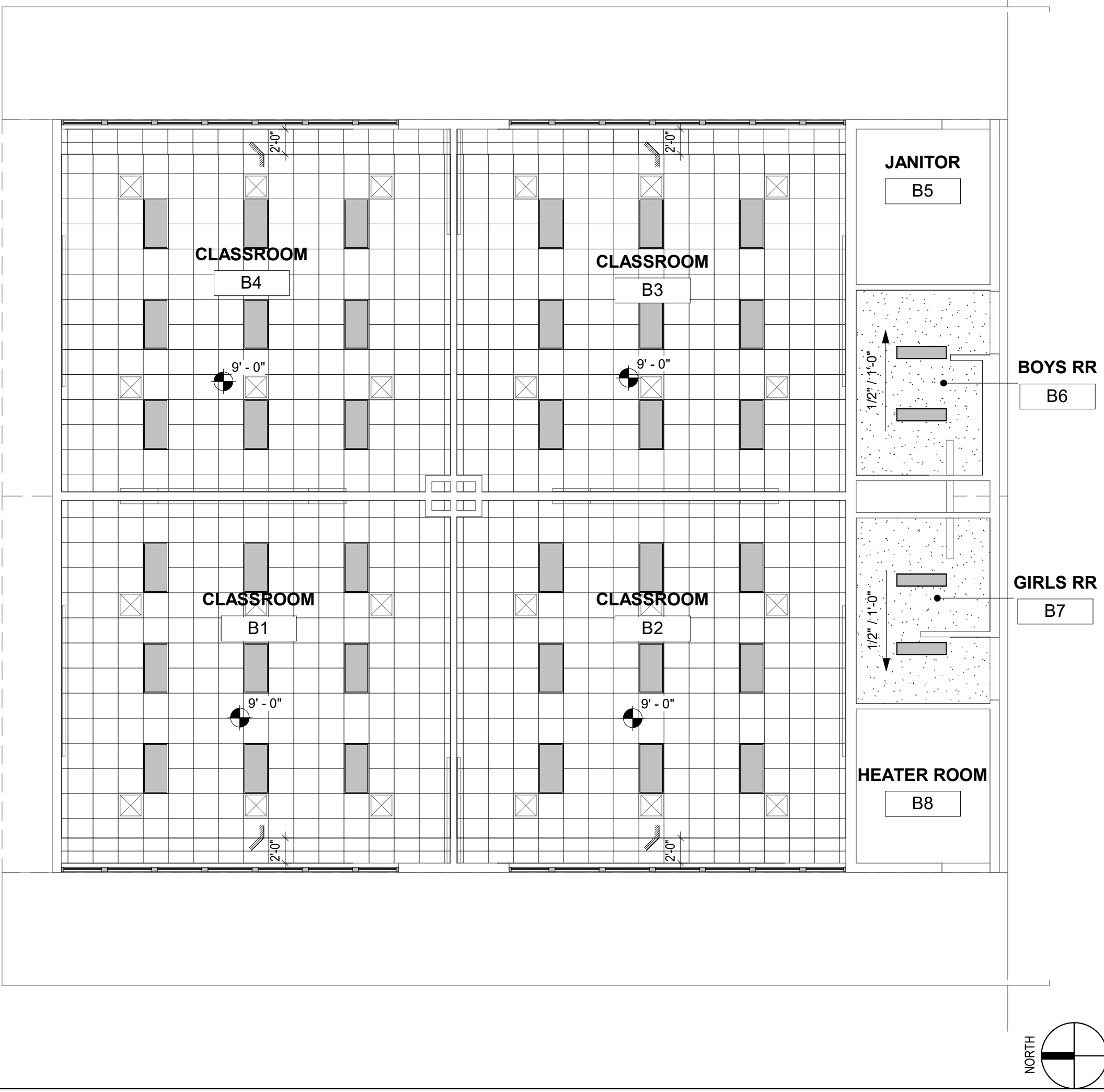
5 REFLECTED CEILING PLAN BLDG C
1/8" = 1'-0"



3 REFLECTED CEILING PLAN BLDG ADMIN
1/8" = 1'-0"



15 REFLECTED CEILING PLAN BLDG A
1/8" = 1'-0"



17 REFLECTED CEILING PLAN BLDG B
1/8" = 1'-0"

-CONSTRUCTION KEYED NOTES

#	Description
08.03	(N) CEILING ACCESS PANEL 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 TO REMAIN. 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

ACCESS PANEL. 20" X 30" MIN. OPENING. SEE DETAIL. 4 A8.03

CEILING SLOPE TRANSITION.

CEILING HEIGHT

NOTE:
ALL (E) BLDGS ARE NON-SPRINKLERED

GENERAL CEILING PLAN NOTES

- REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
- 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.
- NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES (N.O.)
- ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
- CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
- CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE RATED TO MATCH CEILING ASSEMBLY FIRE RATINGS.
- VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
- REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE
- EXISTING CEILING ACCESS PANEL TO REMAIN
- PROVIDE NEW CEILING ACCESS PANEL WHERE REQUIRED PER CODE.
- CONTRACTOR SHALL COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

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PBK.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

WESTMINSTER SCHOOL DISTRICT
15301
15301

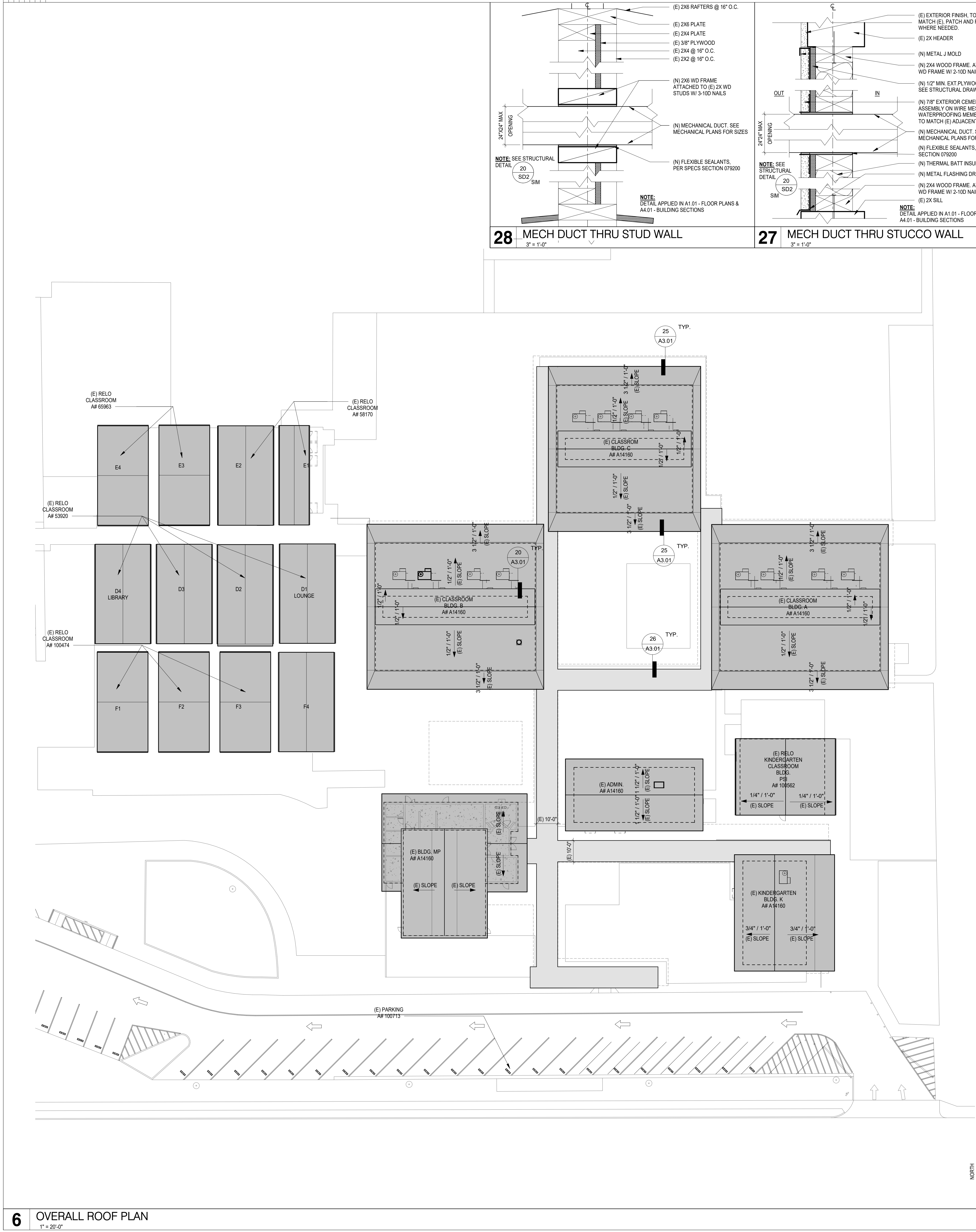
KEY PLAN
NORTH: PLAN

Consultant

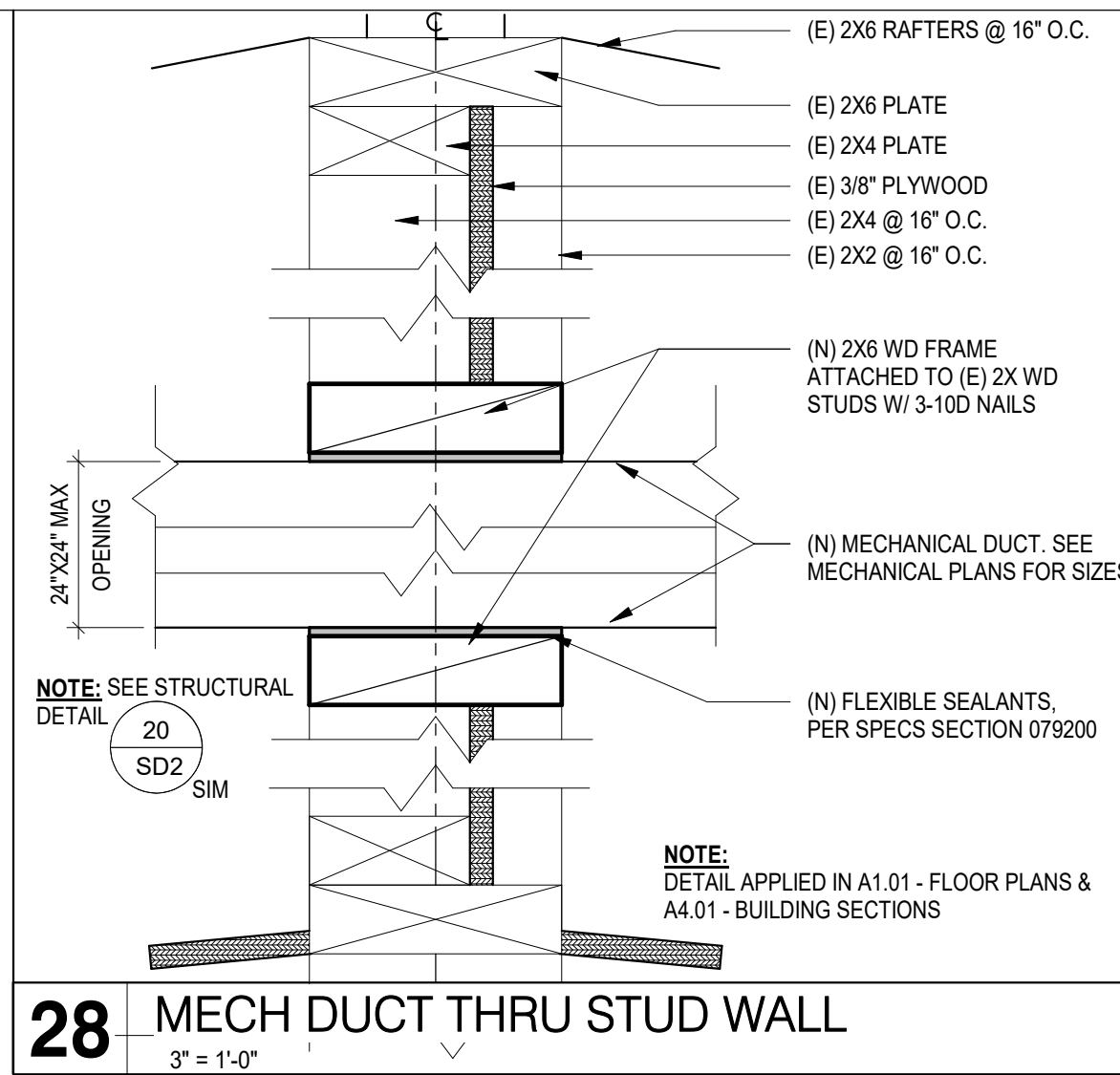
Architect
Vong Yoo
No. C-31162
REV. 10-31-2005
STATE OF CALIFORNIA

REVISIONS		
No.	Description	Date

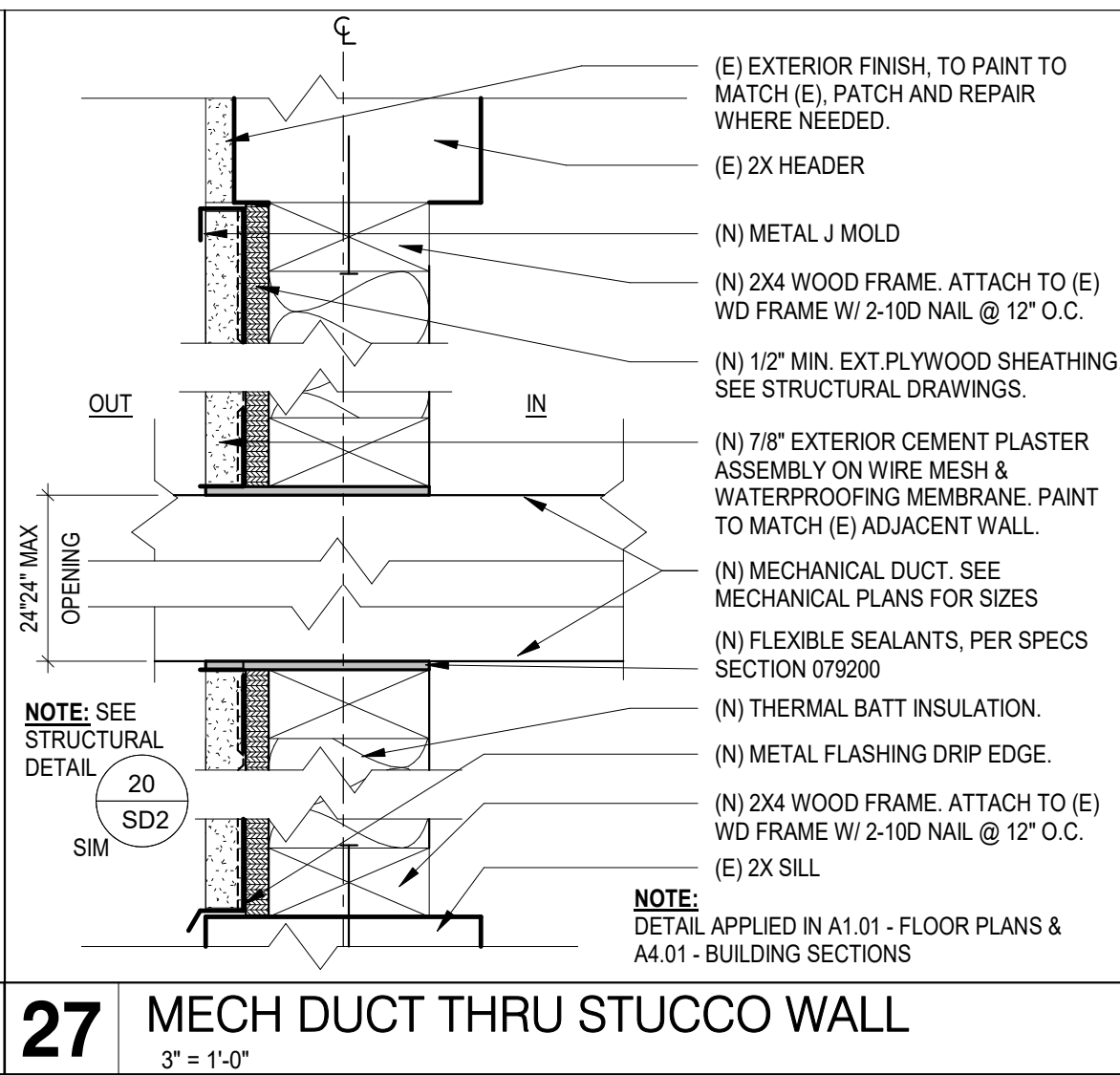
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DSA SUBMITTAL
REFLECTED CEILING PLANS BLDG ADMIN. A,B,C&K



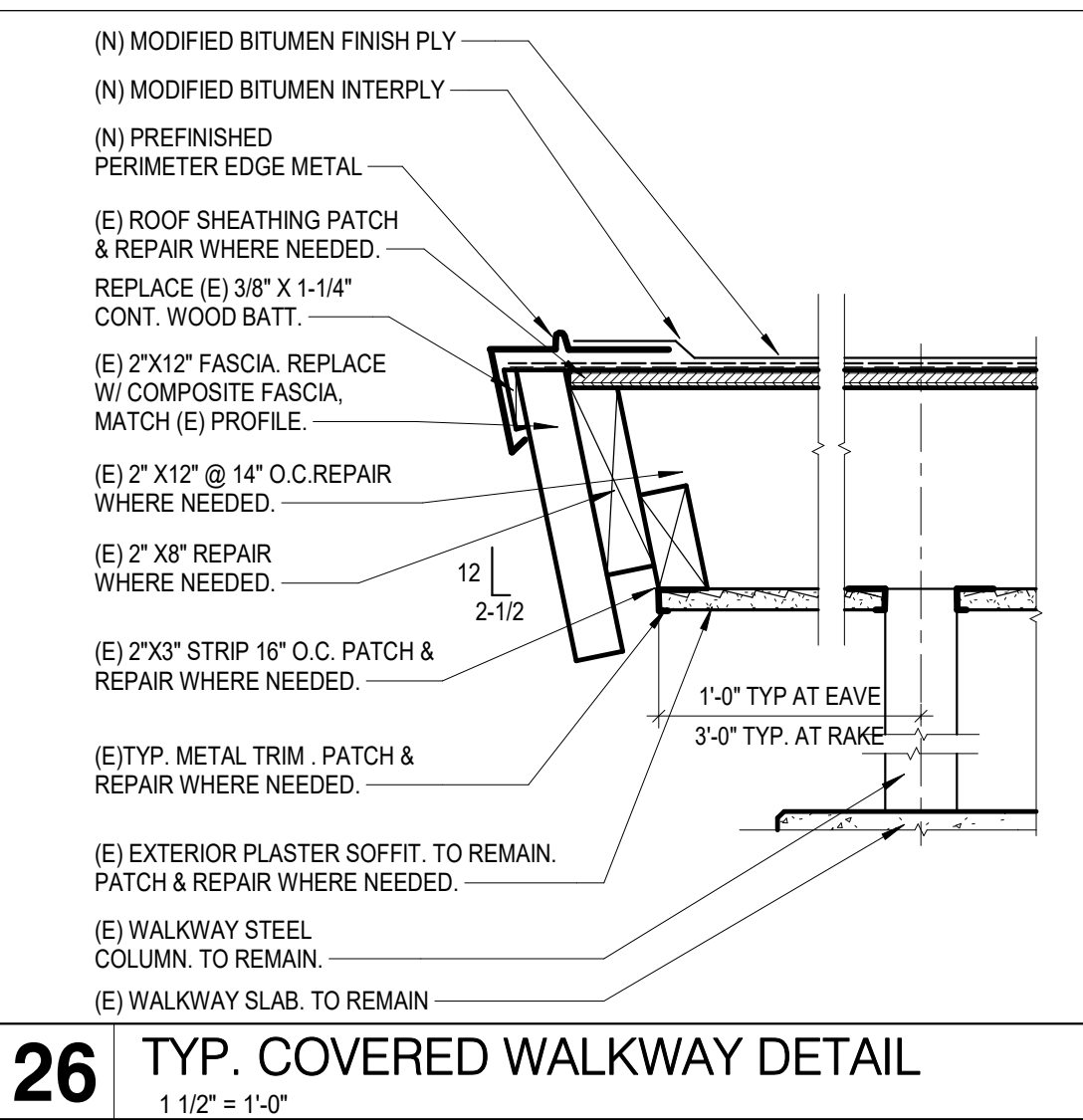
6 OVERALL ROOF PLAN
1" = 20'-0"



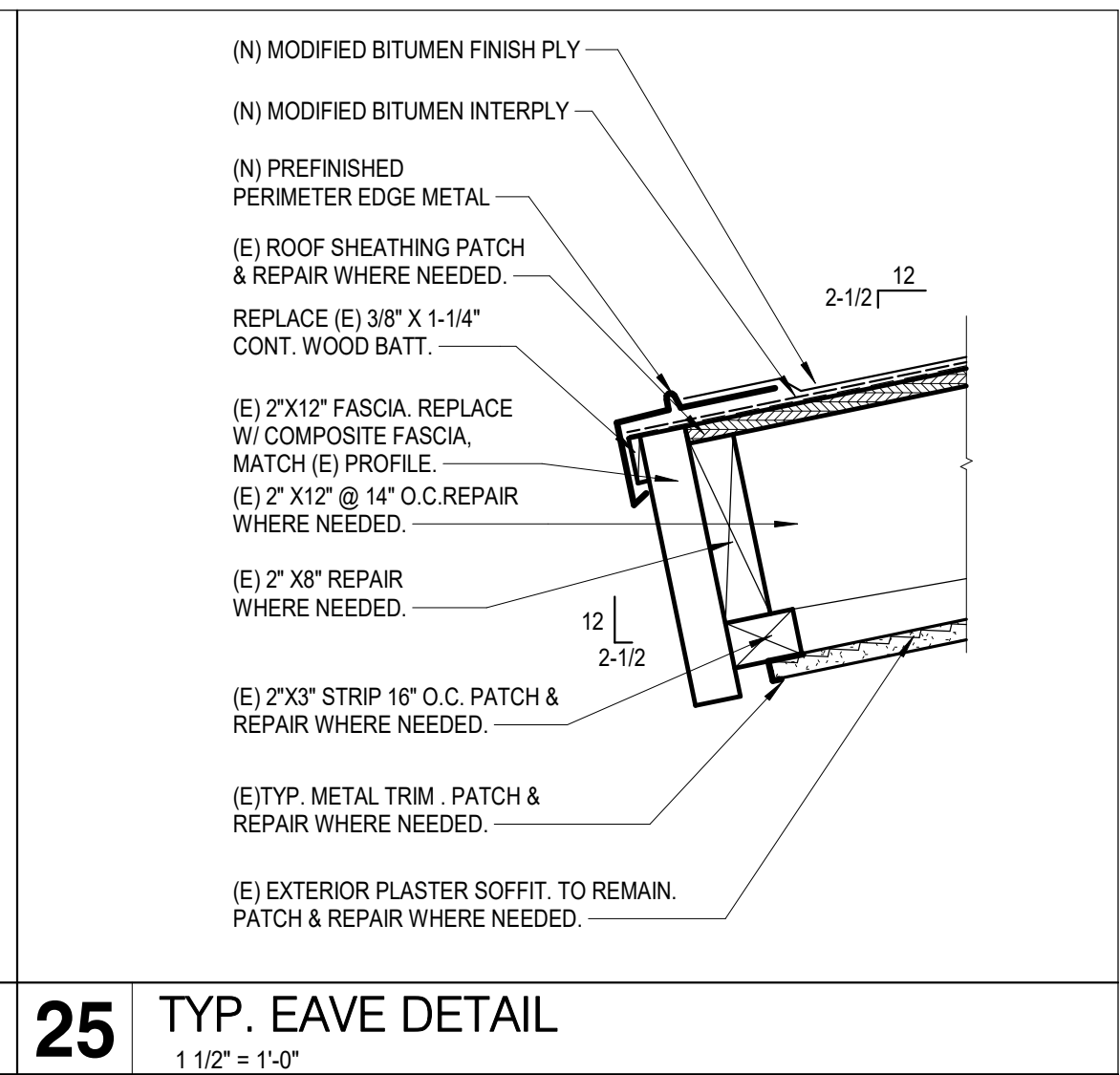
28 MECH DUCT THRU STUD WALL
3" = 1'-0"



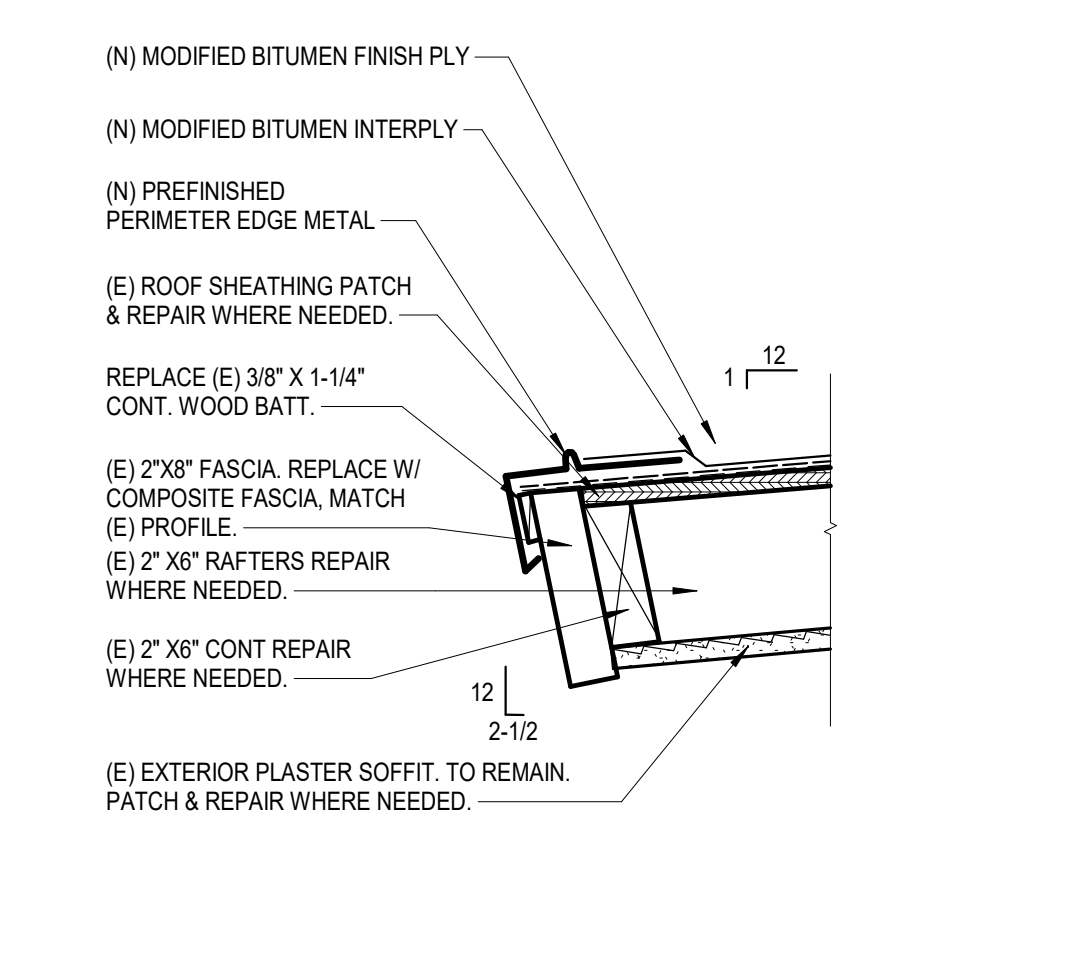
27 MECH DUCT THRU STUCCO WALL
3" = 1'-0"



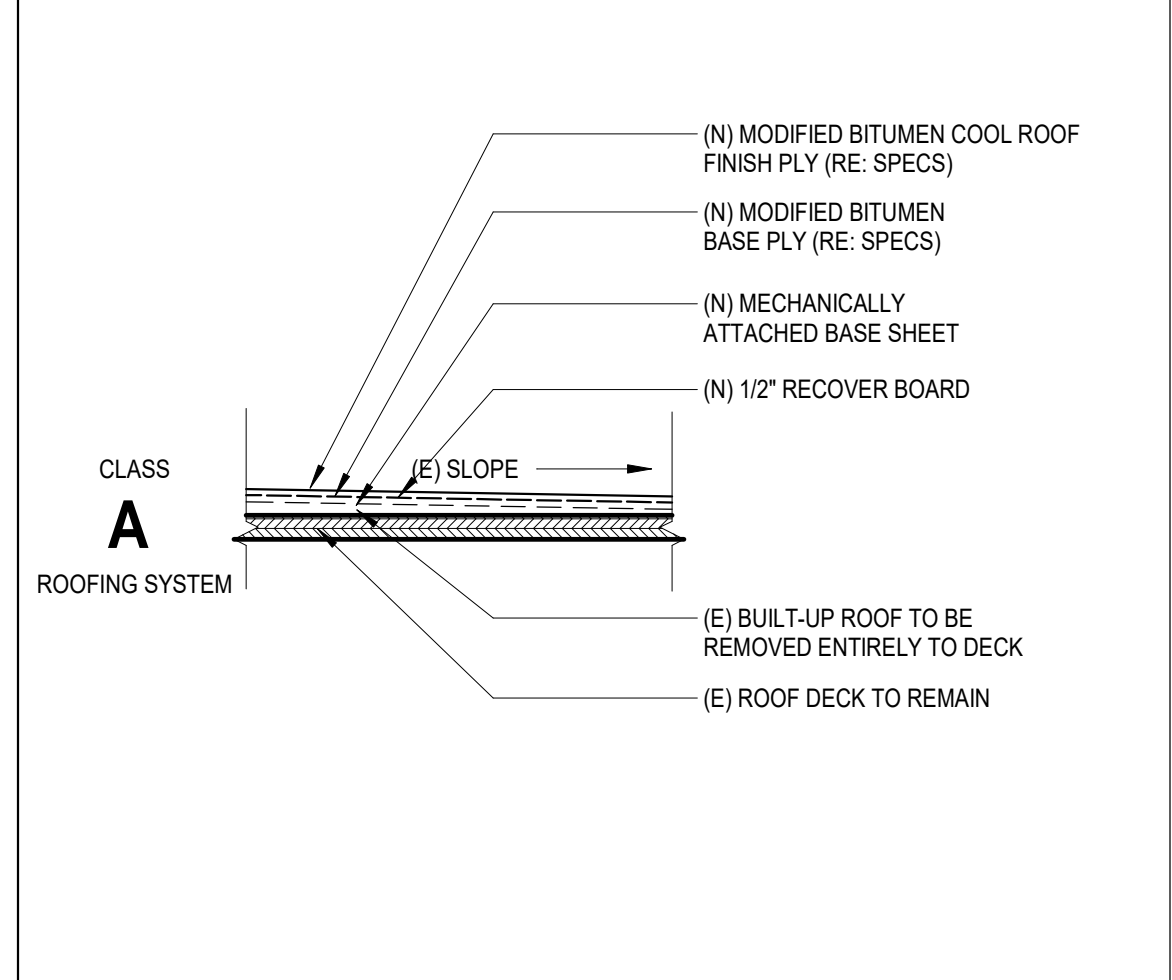
26 TYP. COVERED WALKWAY DETAIL
1 1/2" = 1'-0"



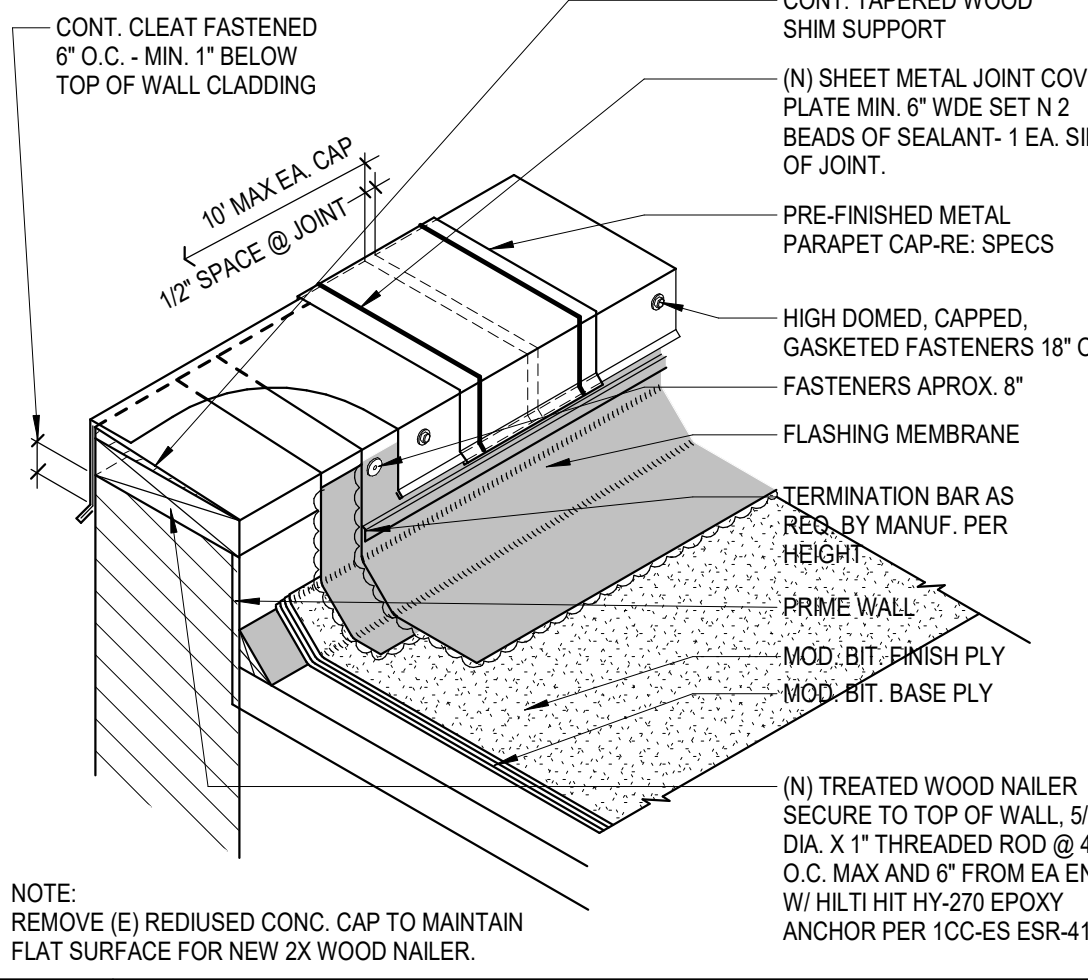
25 TYP. EAVE DETAIL
1 1/2" = 1'-0"



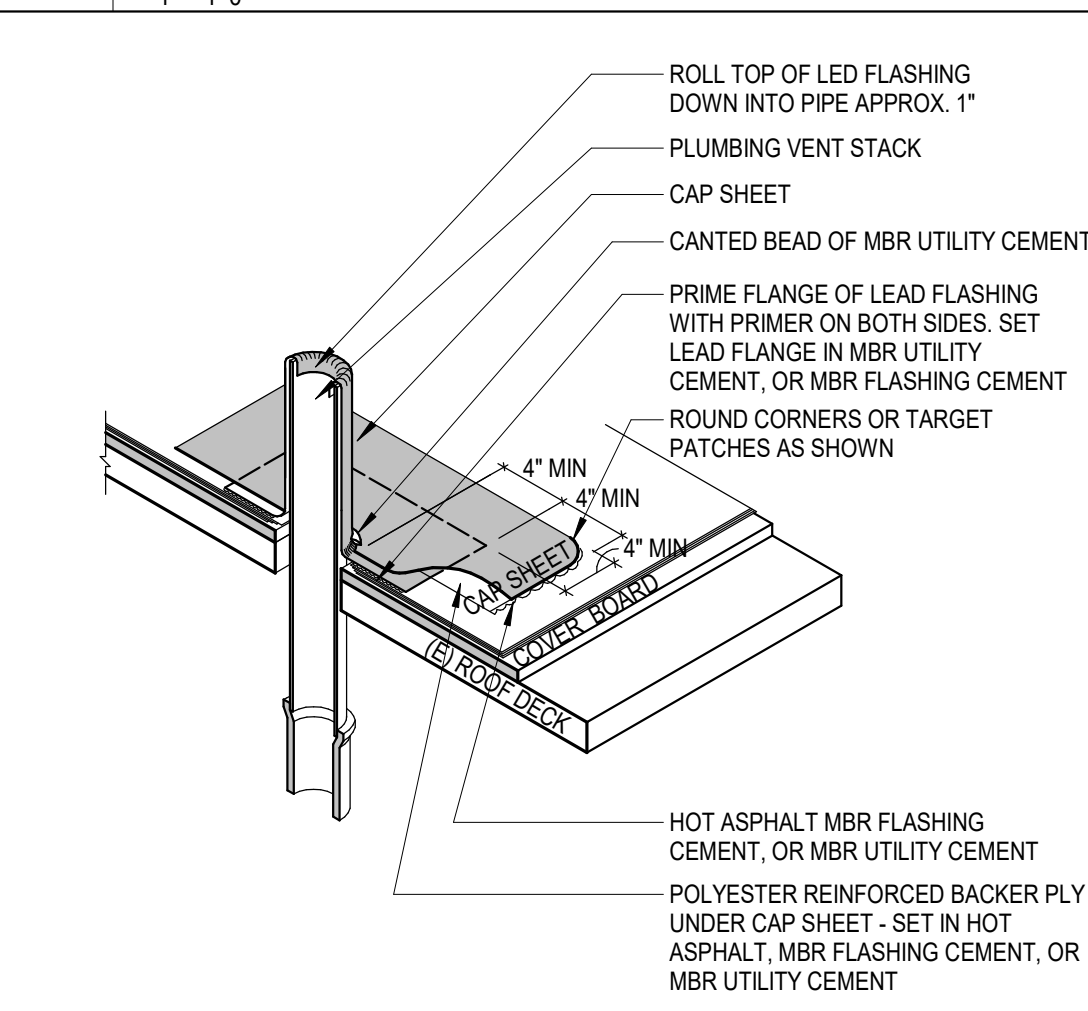
20 TYP. EAVE AT CLERESTORY DETAIL
1 1/2" = 1'-0"



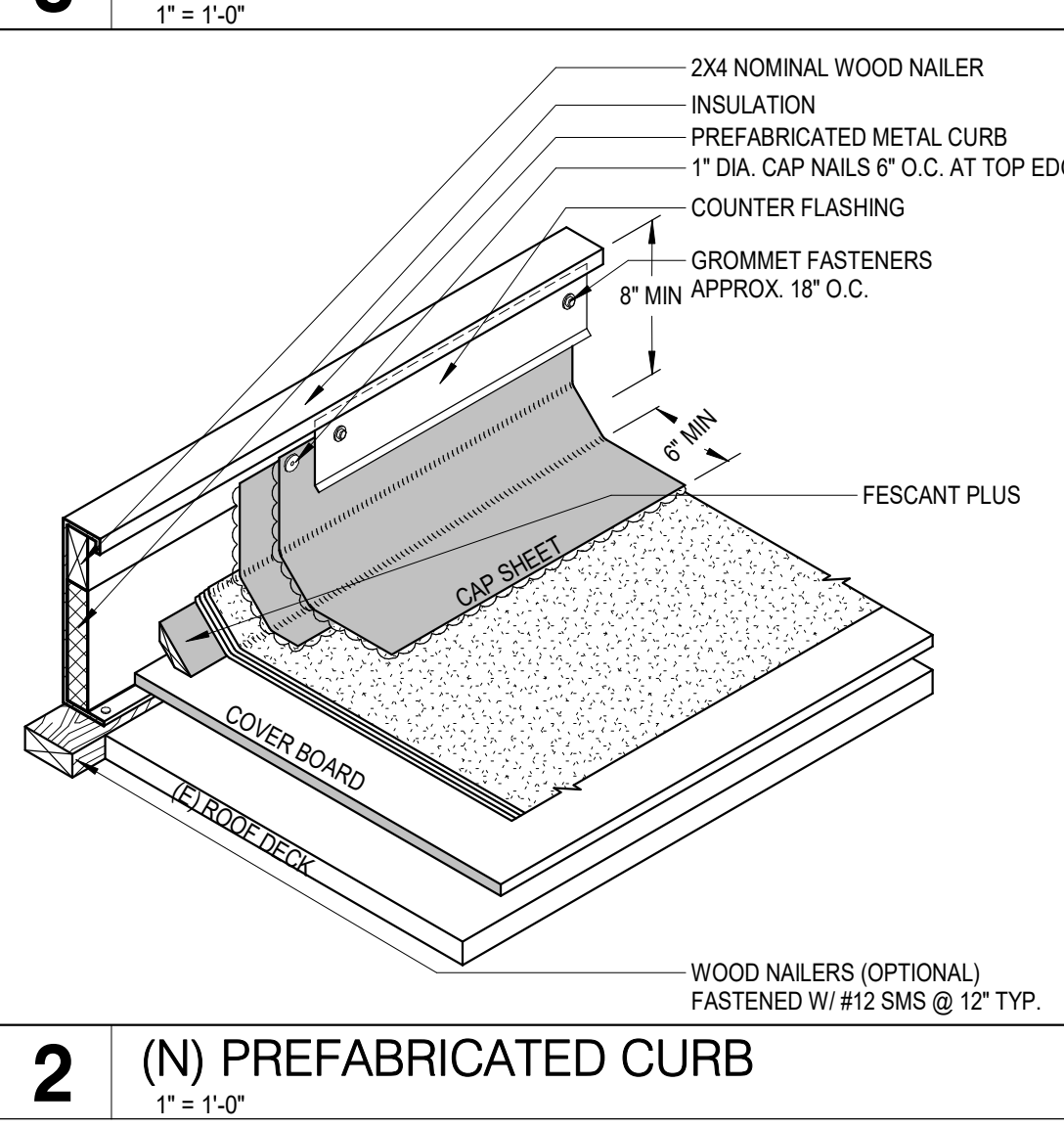
19 NEW ROOFING SYSTEM DETAIL
3" = 1'-0"



14 (N) PARAPET BASE & CAP
1" = 1'-0"



8 (N) PLUMBING VENT THRU ROOF
1" = 1'-0"



2 (N) PREFABRICATED CURB
1" = 1'-0"

ROOF SCHEDULE				
ROOF AREA	APPROX. SQ. FT.	EXISTING ROOF	NEW ROOF PER 19/A3.01	REMARKS
ADMIN	2227 SF	WDSSBUR-A	A	
BLDG A	4478 SF	WDSSBUR-A	A	
BLDG A CLERESTORY ROOF	1282 SF	WDSSBUR-A	A	
BLDG A EAST OVERHANG	783 SF	WDSSBUR-A	A	
BLDG A WEST OVERHANG	783 SF	WDSSBUR-A	A	
BLDG B	4488 SF	WDSSBUR-A	A	
BLDG B CLERESTORY ROOF	1282 SF	WDSSBUR-A	A	
BLDG B EAST OVERHANG	783 SF	WDSSBUR-A	A	
BLDG B WEST OVERHANG	783 SF	WDSSBUR-A	A	
BLDG C	3894 SF	WDSSBUR-A	A	
BLDG C CLERESTORY ROOF	1072 SF	WDSSBUR-A	A	
BLDG C EAST OVERHANG	675 SF	WDSSBUR-A	A	
BLDG C WEST OVERHANG	675 SF	WDSSBUR-A	A	
BLDG K	2094 SF	WDSSBUR-A	A	
BLDG K SOUTH OVERHANG	514 SF	WDSSBUR-A	A	
COVERED WALKWAY	6305 SF	WDSSBUR-A	A	
MPR 1	1837 SF	WDSSBUR-A	A	
MPR 2	1963 SF	WDSSBUR-A	A	
RELO CLASSROOM KINDER PSI	1700 SF	WDSSBUR-A	A	
RELO D1	1223 SF	WDSSBUR-A	A	
RELO D2	1223 SF	WDSSBUR-A	A	
RELO D3	1223 SF	WDSSBUR-A	A	
RELO D4	1223 SF	WDSSBUR-A	A	
RELO E2	1223 SF	WDSSBUR-A	A	
RELO E3	1128 SF	WDSSBUR-A	A	
RELO E4	1128 SF	WDSSBUR-A	A	
RELO F1	1128 SF	WDSSBUR-A	A	
RELO F2	1128 SF	WDSSBUR-A	A	
RELO F3	1128 SF	WDSSBUR-A	A	
RELO F4	1223 SF	WDSSBUR-A	A	
RELO RESTROOM	659 SF	WDSSBUR-A	A	

ROOFING SCOPE OF WORK

1. REMOVE AND PROPERLY DISPOSE OF EXISTING ROOFING (WEIGHING APPROXIMATELY 8 LBS/SF) INSULATION (RE: 3/4-1.1) 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 REPAIR ADJACENT) FOR INSTALLATION OF NEW CLASS "A" ROOF SYSTEM. PREPARE / REPAIR EXISTING ROOF DECK WITH LIKE KIND MATERIAL AND ATTACHMENT. MECHANICALLY ATTACH NEW BASE SHEET, HEAT WELD MODIFIED BITUMEN BASE PLY ROOF MEMBRANE, ENSURE IS WATER TIGHT PRIOR TO COVERING UP. HEAT WELD MODIFIED BITUMEN TILT 2-24 FINISH PLY ROOF MEMBRANE WITH 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 FACIA PROFILE.
5. EXISTING ROOF SLOPE TO REMAIN.
6. SEE DIVISION 7 FOR ROOFING SPECIFICATIONS FOR MORE INFORMATION.
7. REPLACE ALL EXISTING WOOD MATERIAL DAMAGED WITH DRY ROT & TERMITE.
8. MECHANICAL ROOF UNITS SHALL BE 10 FT MIN. FROM ROOF EDGE. PER CBC 1015.6.

ROOF PLAN LEGEND		
	SCOPE OF ROOF MODERNIZATION FOR BUILDINGS. SEE DETAIL.	2, 8, 19, 20, 25, 27, 28, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
	SCOPE OF ROOF MODERNIZATION FOR COVERED WALKWAYS. SEE DETAIL.	19, 20, 25, 27, 28, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
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. **CONTRACTOR SHALL COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.		
ABBREVIATIONS: WD: WOOD ROOF DECK SS: SLIP SHEET BUR-A: MULTIPLY BUILT-UP OOF SYSTEM W/ ALUMINUM COATING		

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ARCHITECT
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

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DSA APPL. NO. 04-121818 DSA FILE NO. 30-43

WESTMINSTER SCHOOLS DISTRICT

KEY PLAN
NORTH: PLAN

Consultant
BEAM
PROFESSIONALS

Architect

Yung Yoo
No. C-31162
REV. 10-31-2005
STATE OF CALIFORNIA

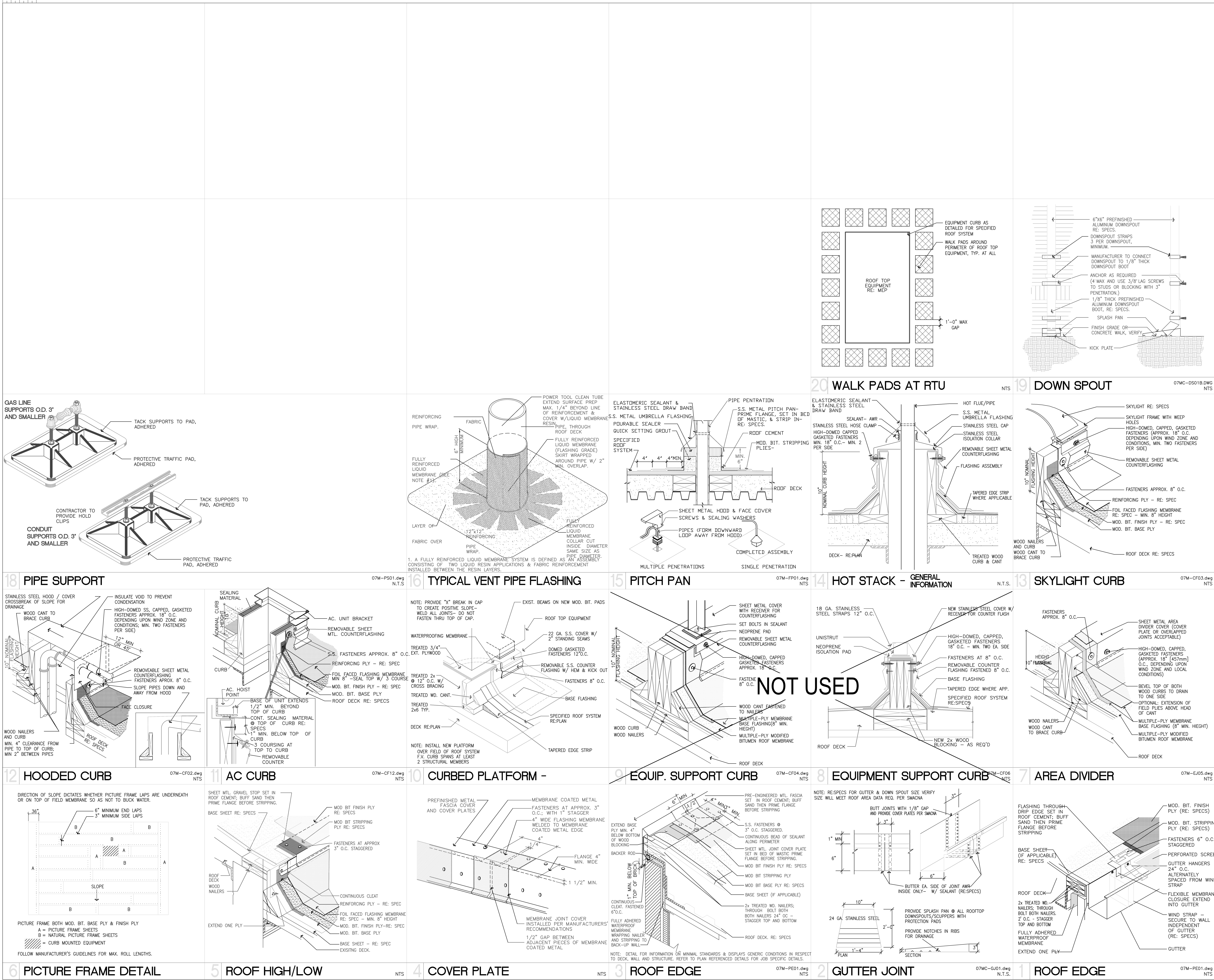
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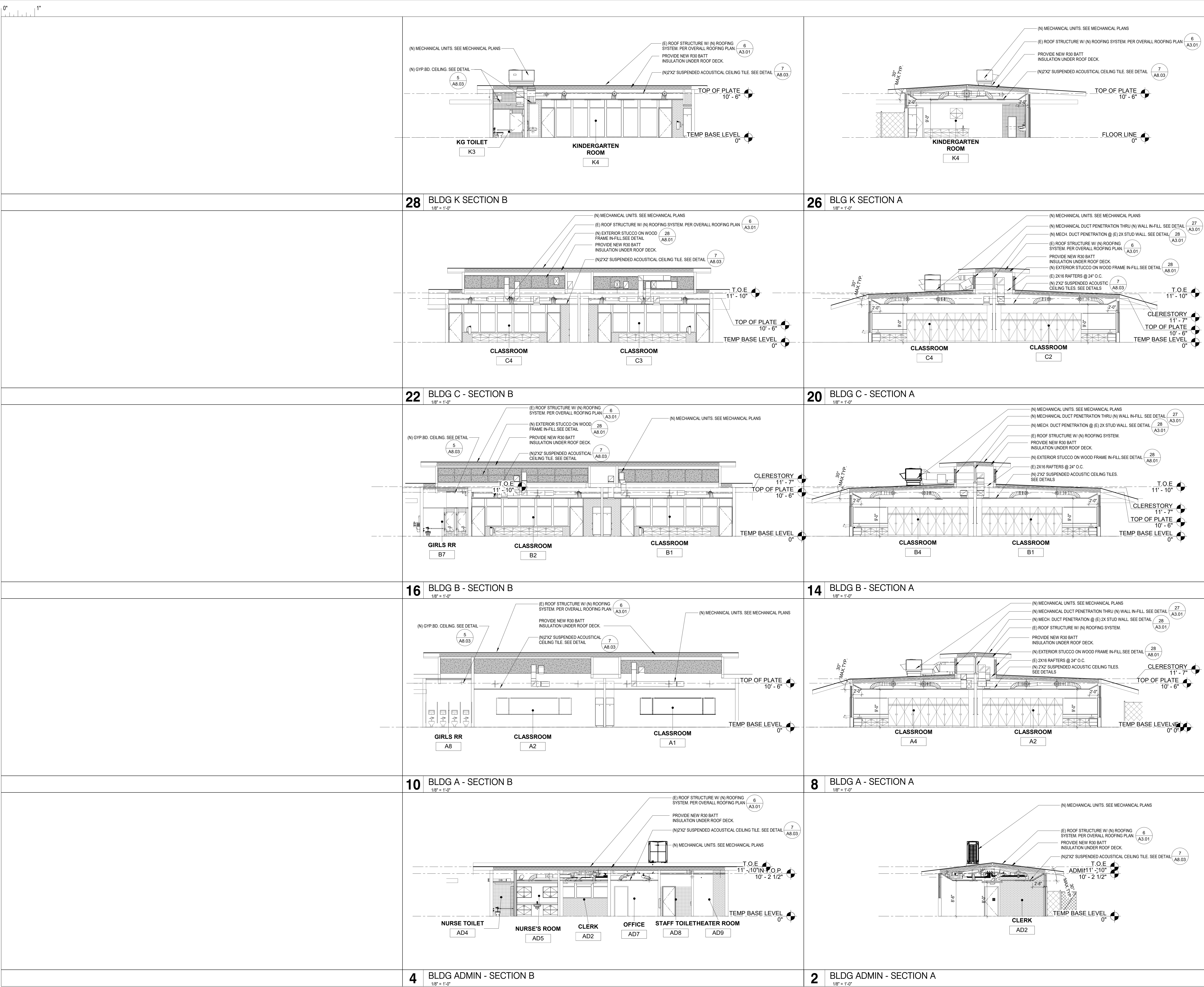
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OVERALL ROOF PLAN AND DETAIL

A3.01





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

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St.
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL. NO. 04-121818 DSA FILE NO. 30-43

E1	E2	E3	E4
D1	D2	D3	D4
F1	F2	F3	F4

3

AD

PSI

K

MP

KEY PLAN
NORTH: PLAN

Consultant

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309

REVISIONS

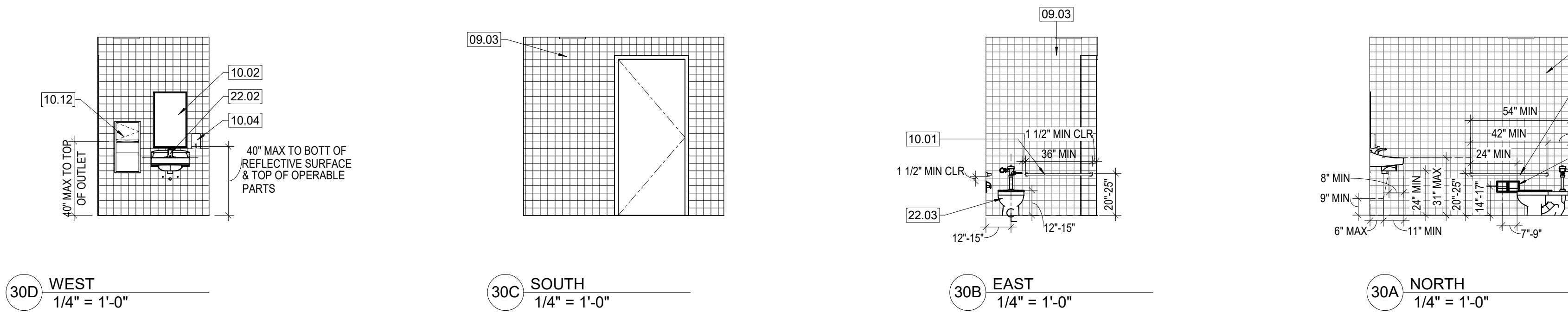
No.	Description	Date

DSA SUBMITTAL

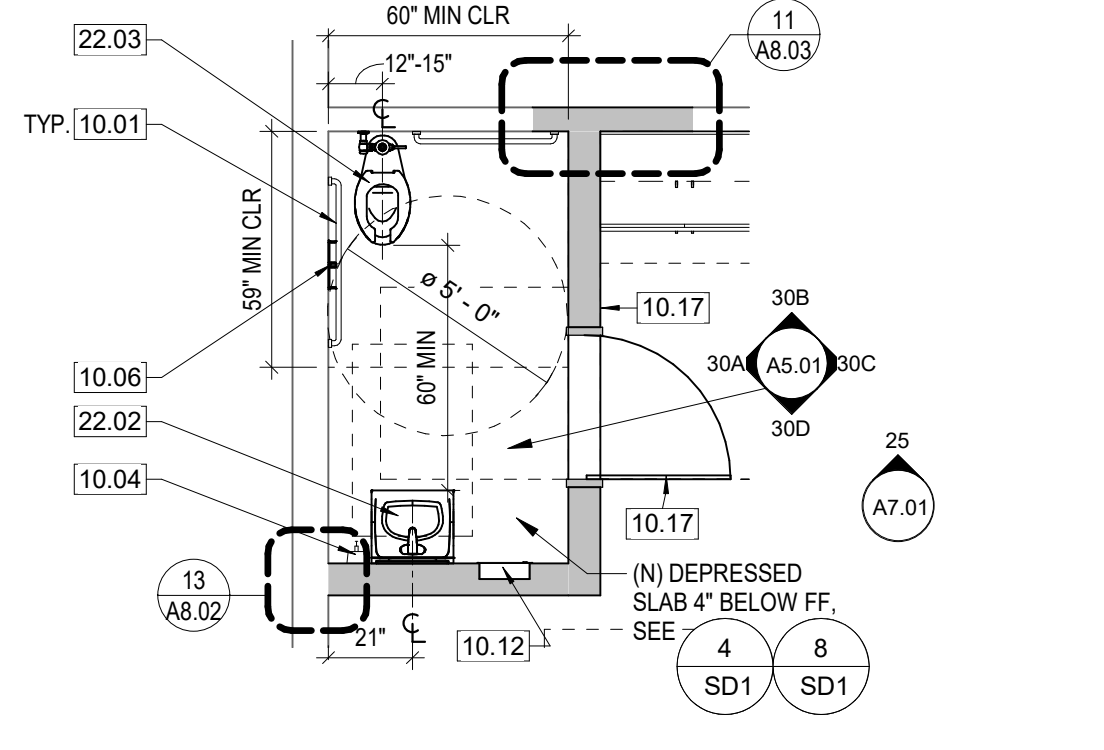
BUILDING SECTIONS

A4.01

0' 1'

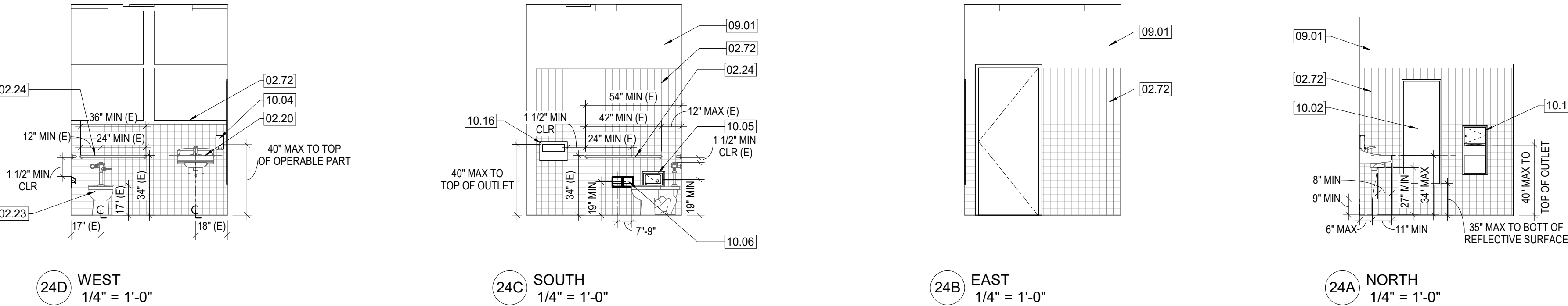


30 ELEVATIONS - AD4 NURSE TOILET (AGES 5-8)

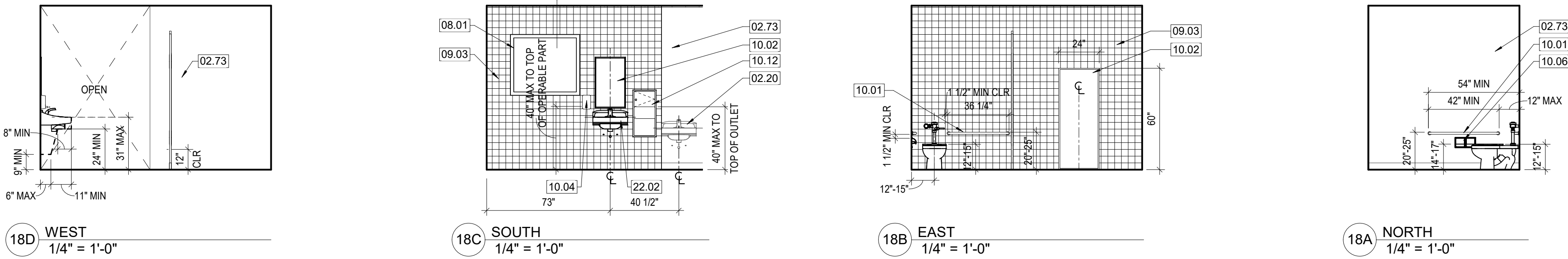
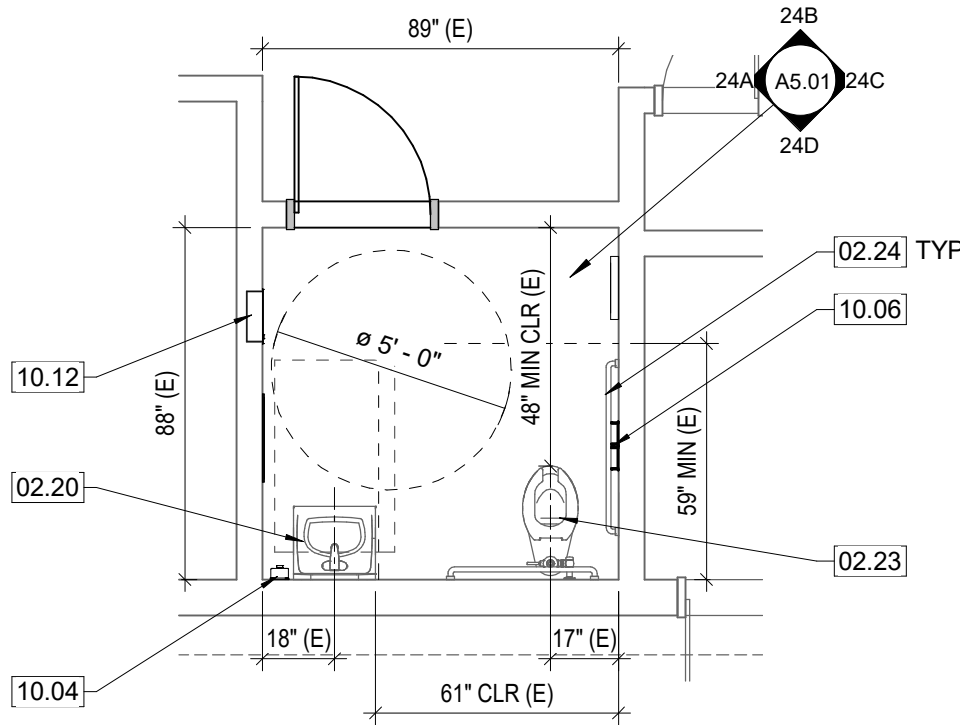


CONSTRUCTION KEYED NOTES

- 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
- 02.24 (E) GRAB BAR TO REMAIN
- 02.31 (E) FLOOR MOUNTED OVERHEAD BRACED SOLID PLASTIC TOILET PARTITION TO REMAIN
- 02.72 (E) CERAMIC TILE FINISH TO REMAIN, PROTECT IN PLACE
- 02.73 (E) WALL FINISH TO REMAIN, PROTECT IN PLACE
- 08.01 (N) ALUMINUM FRAME & GLAZING WINDOW SYSTEM SEE WINDOWS FRAMING ELEVATION
- A8.01 PER ALUMINUM-FRAMED STOREFRONT & ALUMINUM WINDOWS & GLAZING SPEC SECTIONS 084143, 085100, & 088000 RESPECTIVELY.
- 09.01 (N) INTERIOR PAINT FINISH, SEE FINISH SCHEDULE
- 09.03 (N) X44 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
- 10.12 (N) COMBO PAPER TOWEL DISPENSER & WASTE RECEPTACLE, 4" MAX PROTRUSION
- 10.15 (N) SEMI-RECESSED SANITARY NAPKIN DISPENSER
- 10.16 (N) TOILET SEAT COVER DISPENSER
- 10.17 (N) TACTILE RESTROOM DOOR & WALL SIGN, REF DETAIL 24/A8.02
- 10.18 (N) SOLID PLASTIC TOILET PARTITION DOOR
- 22.02 (N) WALL MOUNTED LAVATORY
- 22.03 (N) FLOOR MOUNTED ACCESSIBLE WATER CLOSET

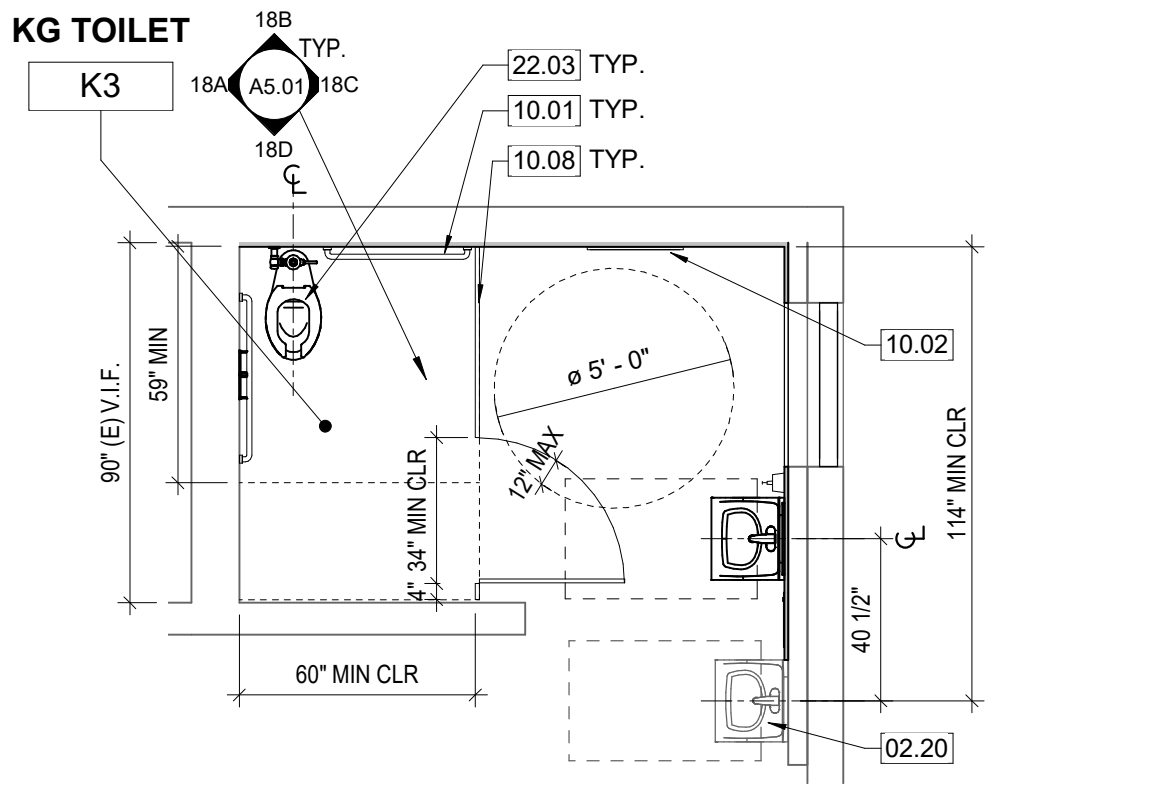


24 ELEVATIONS - AD8 STAFF TOILET (ADULT)

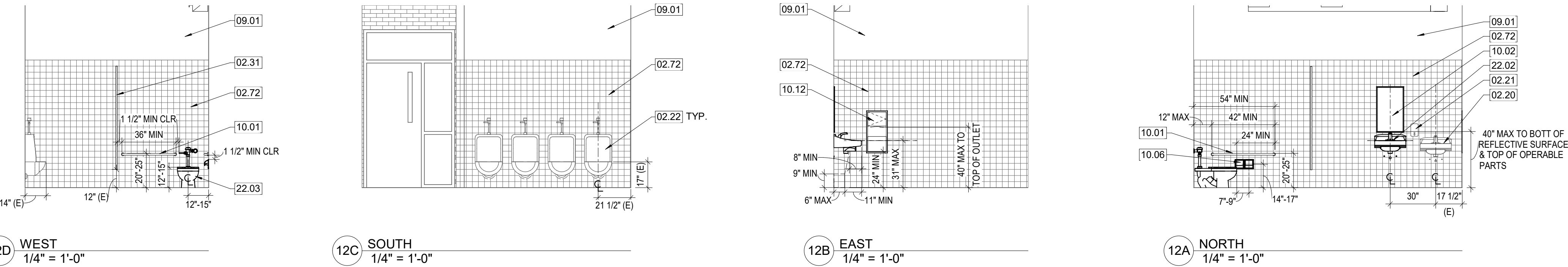


NOTE
KEYNOTES & DIMENSIONS, ALL TYPICAL AT 2 RESTROOMS

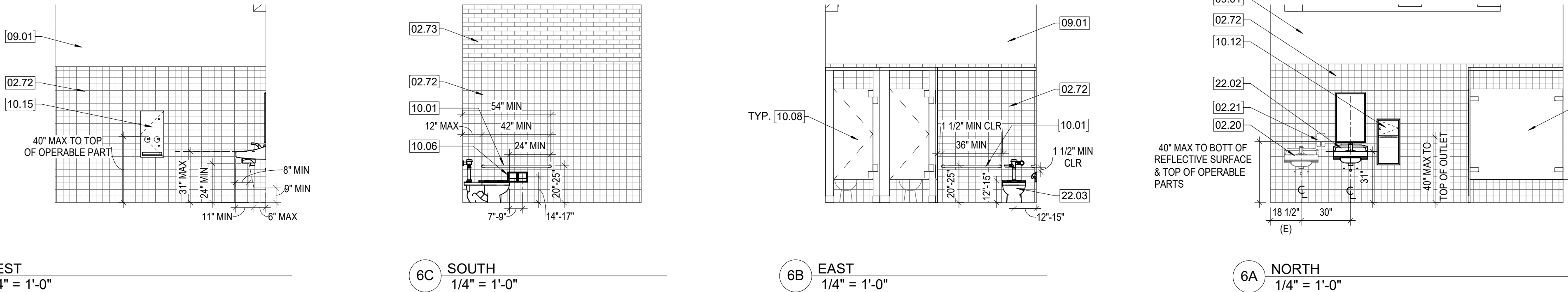
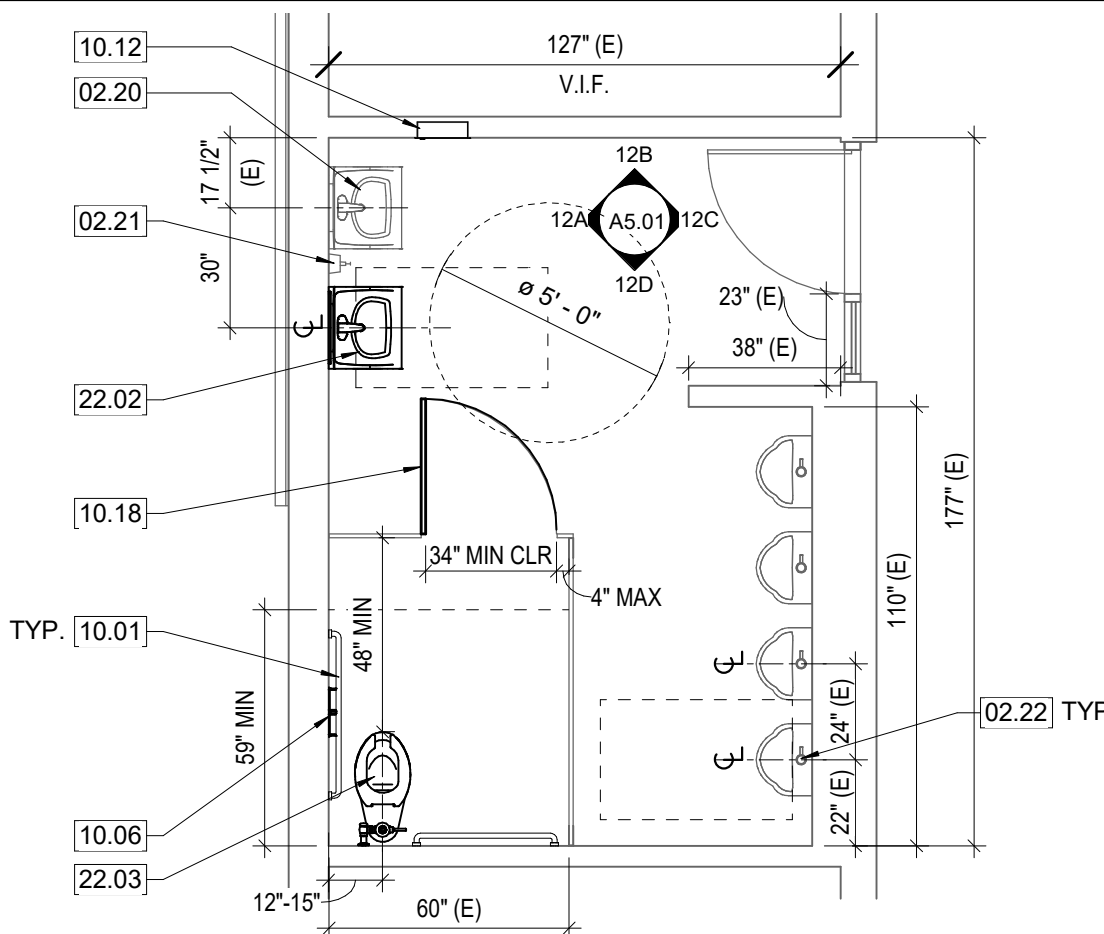
18 ELEVATIONS - KINDERGARTEN TOILET 1 & 2 (AGES 5-8)



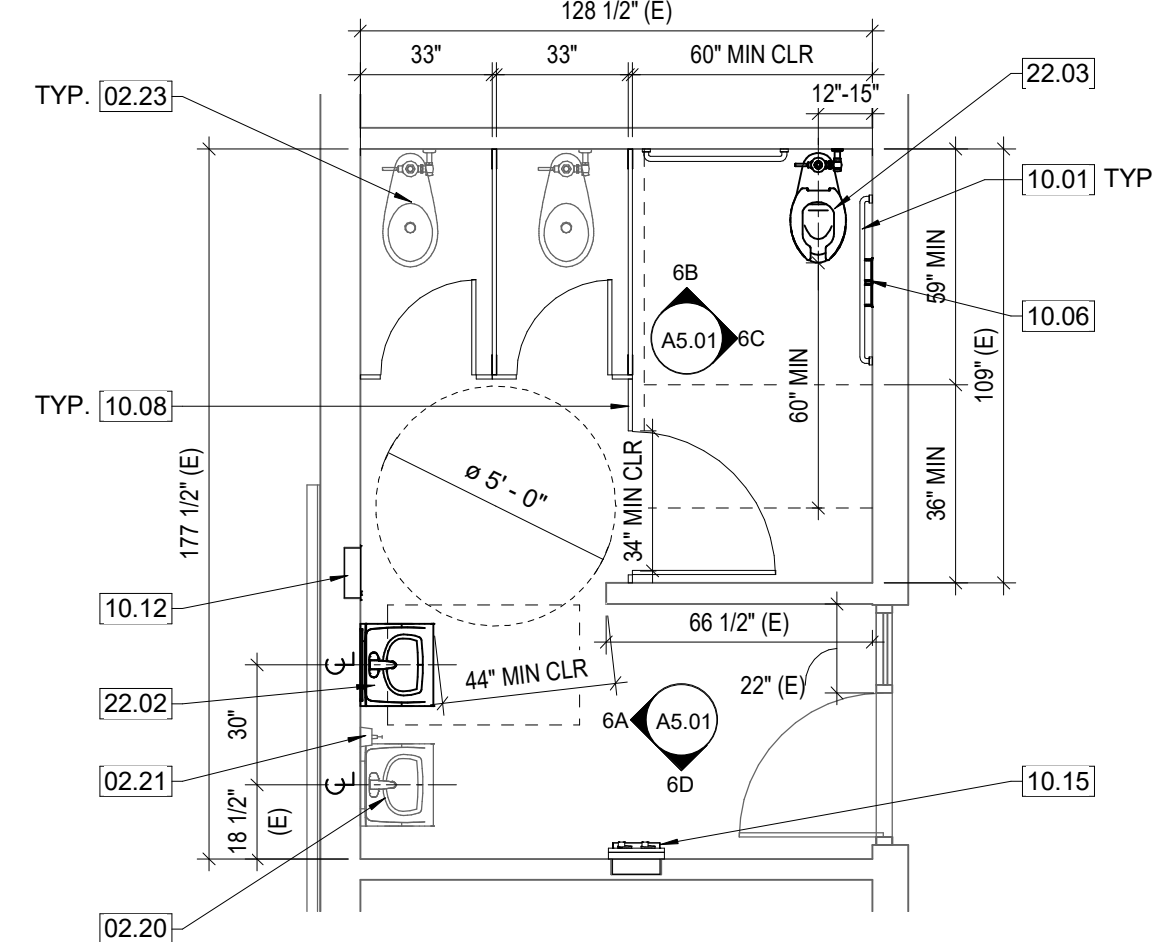
NOTE
KEYNOTES & DIMENSIONS, ALL TYPICAL AT 2 RESTROOMS



12 ELEVATIONS - B6 BOYS RR (AGES 5-8)



6 ELEVATIONS - B7 GIRLS RR (AGES 5-8)



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK

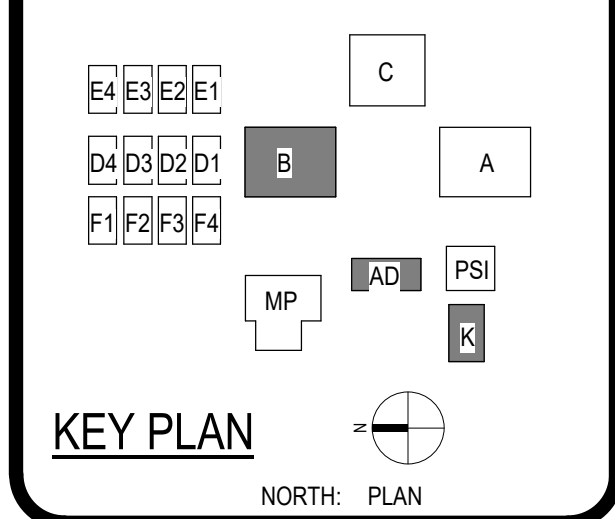
ARCHITECT PBK Architects, Inc.
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

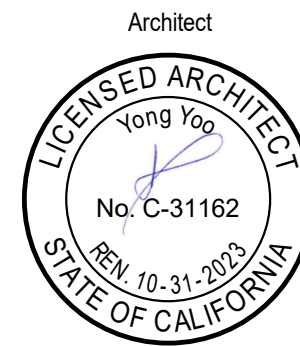
PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO. 04-121818 DSA FILE NO. 30-43



Consultant

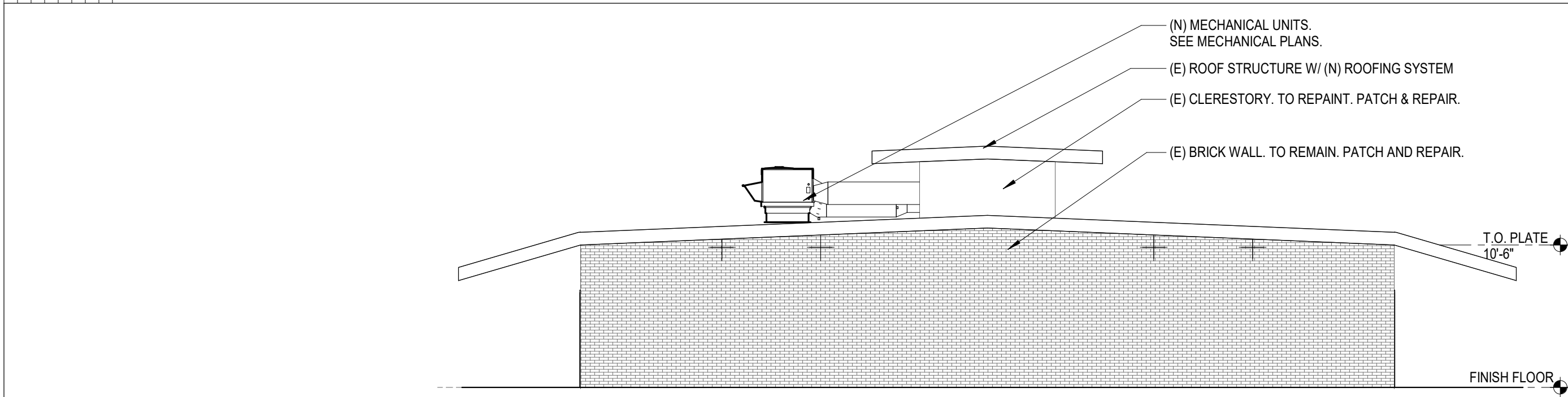


REVISIONS		
No.	Description	Date

DSA SUBMITTAL

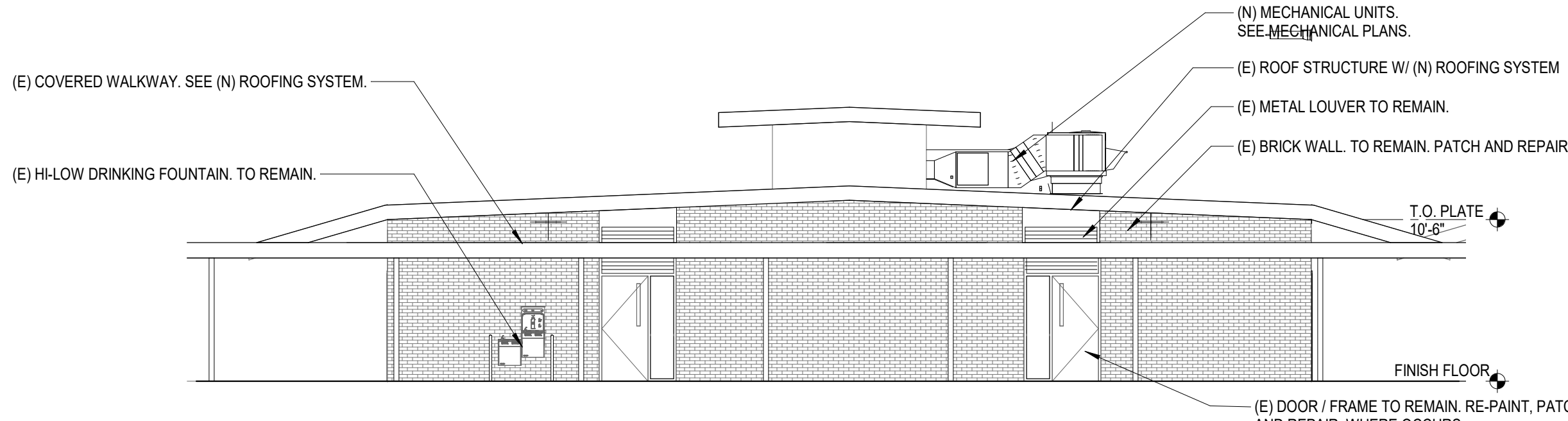
ENLARGED RESTROOM
PLANS & INTERIOR
ELEVATIONS

A5.01



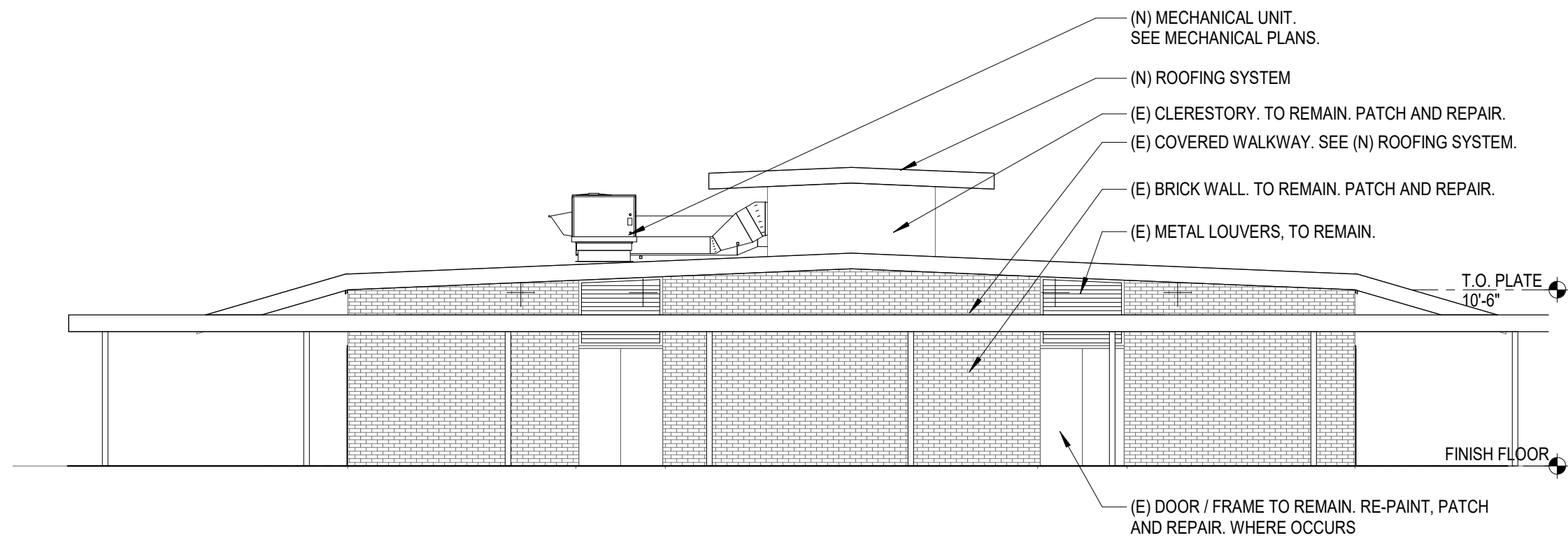
NOTE:
1. SEE SHEET A8.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



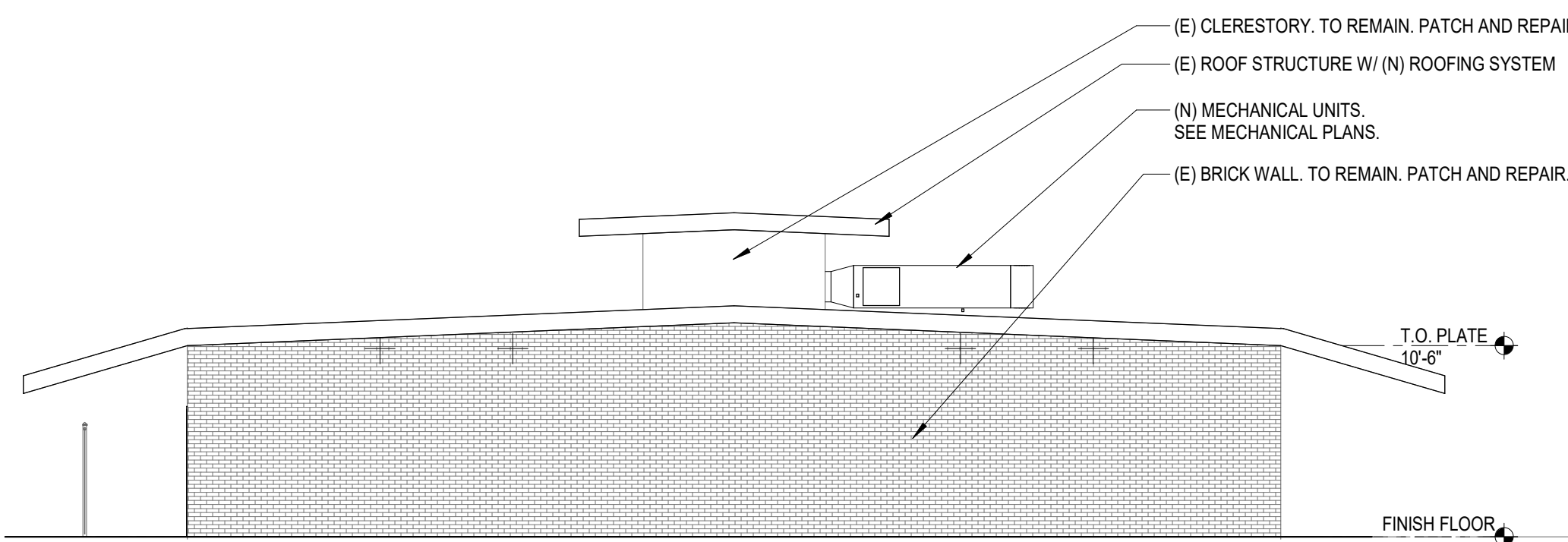
NOTE:
1. SEE SHEET A8.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



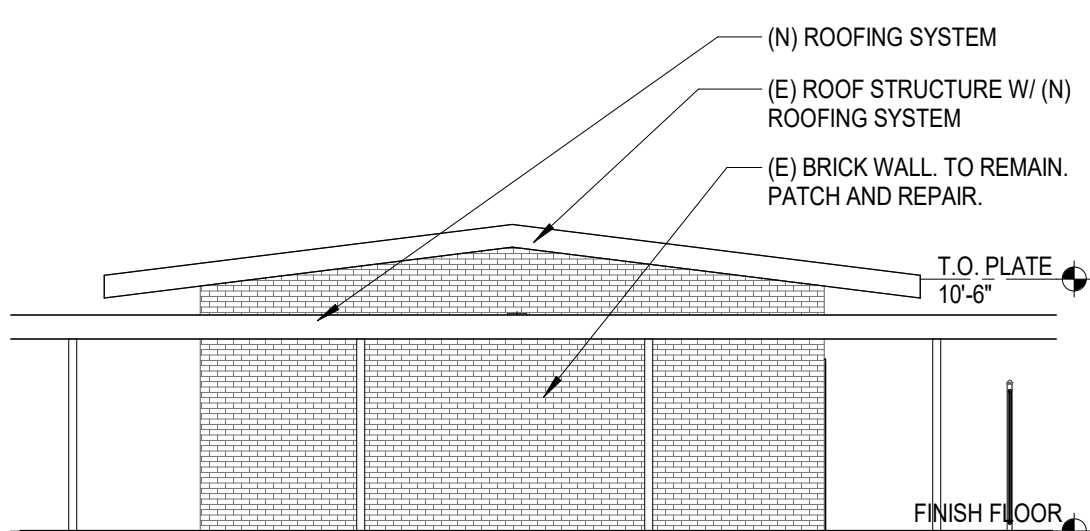
NOTE:
1. SEE SHEET A8.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



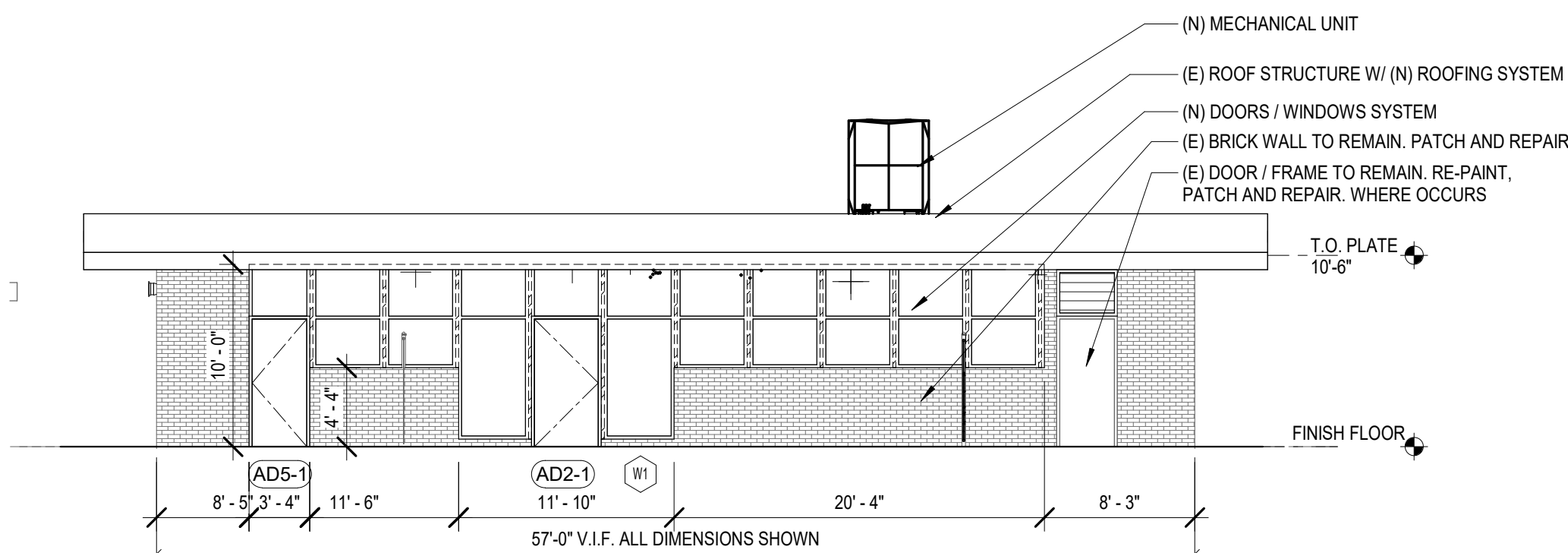
NOTE:
1. SEE SHEET A8.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



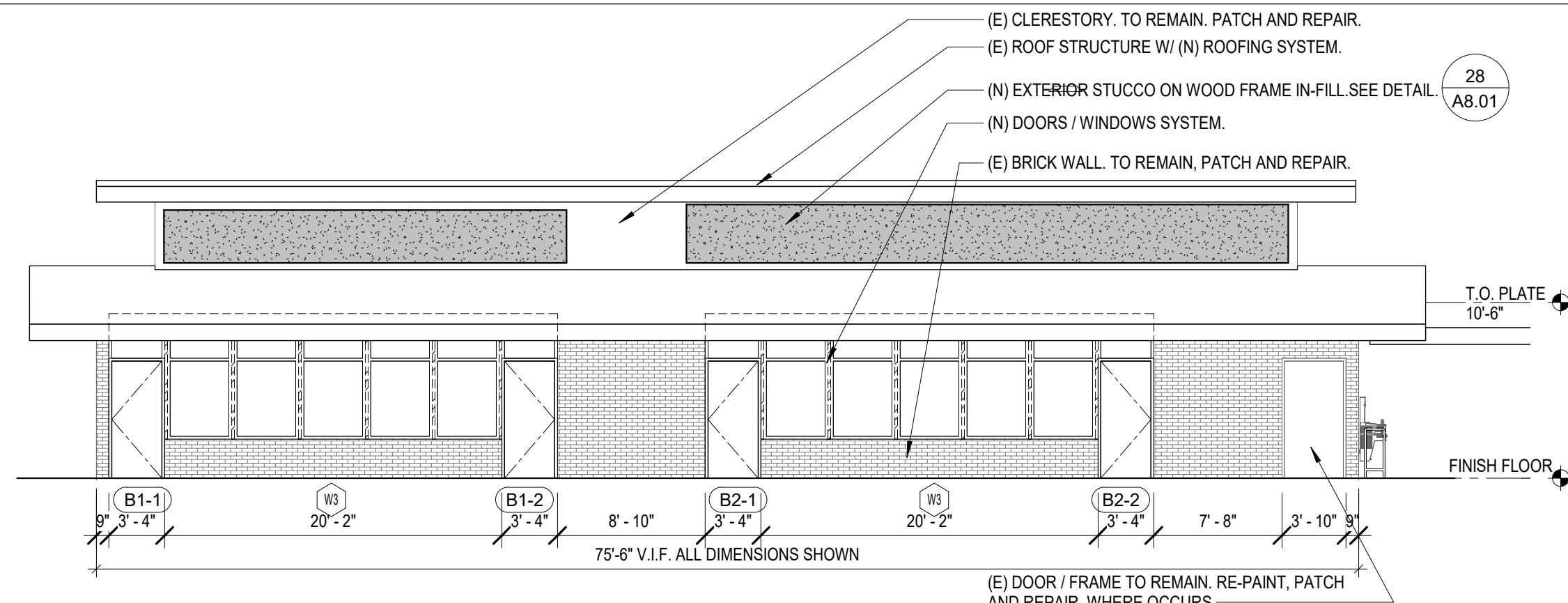
NOTE:
1. SEE SHEET A9.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



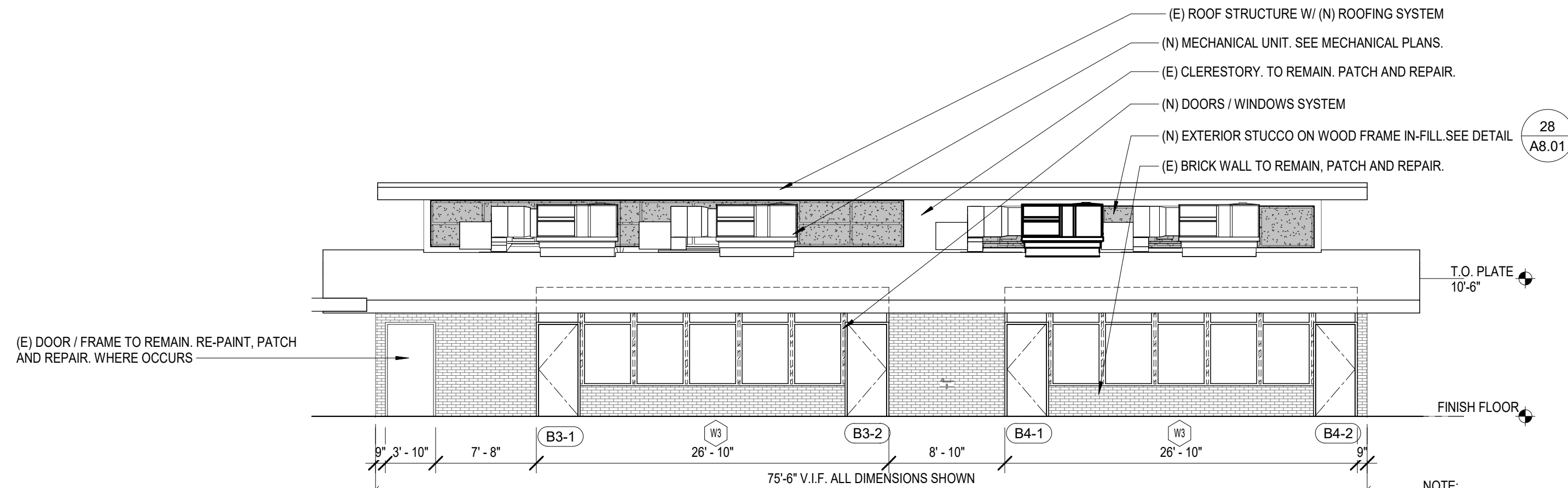
NOTE:
1. SEE SHEET A8.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



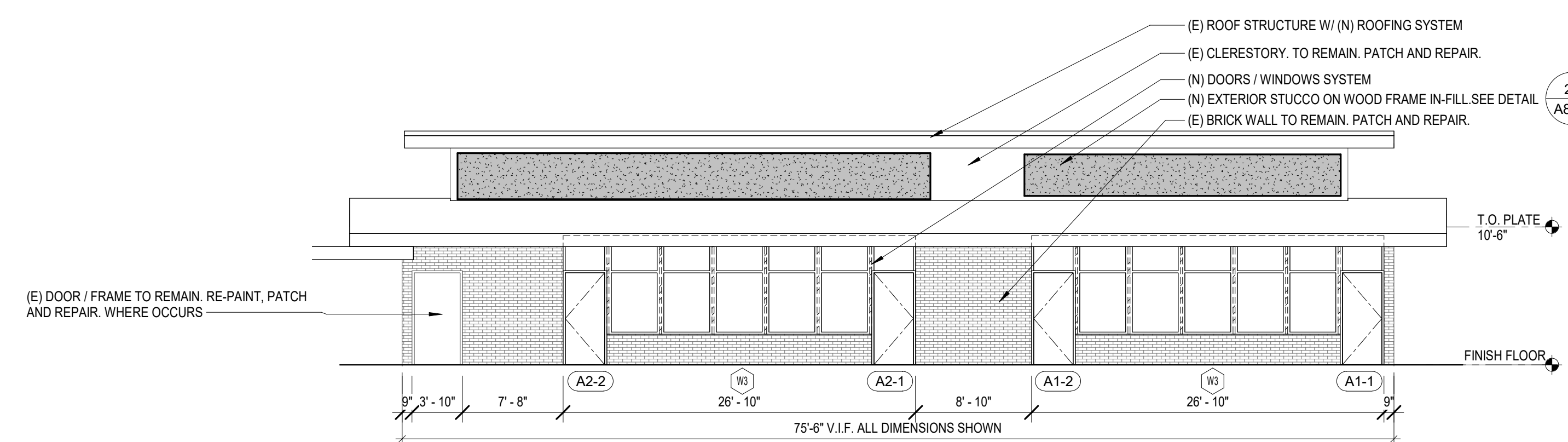
NOTE:
1. SEE SHEET A8.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



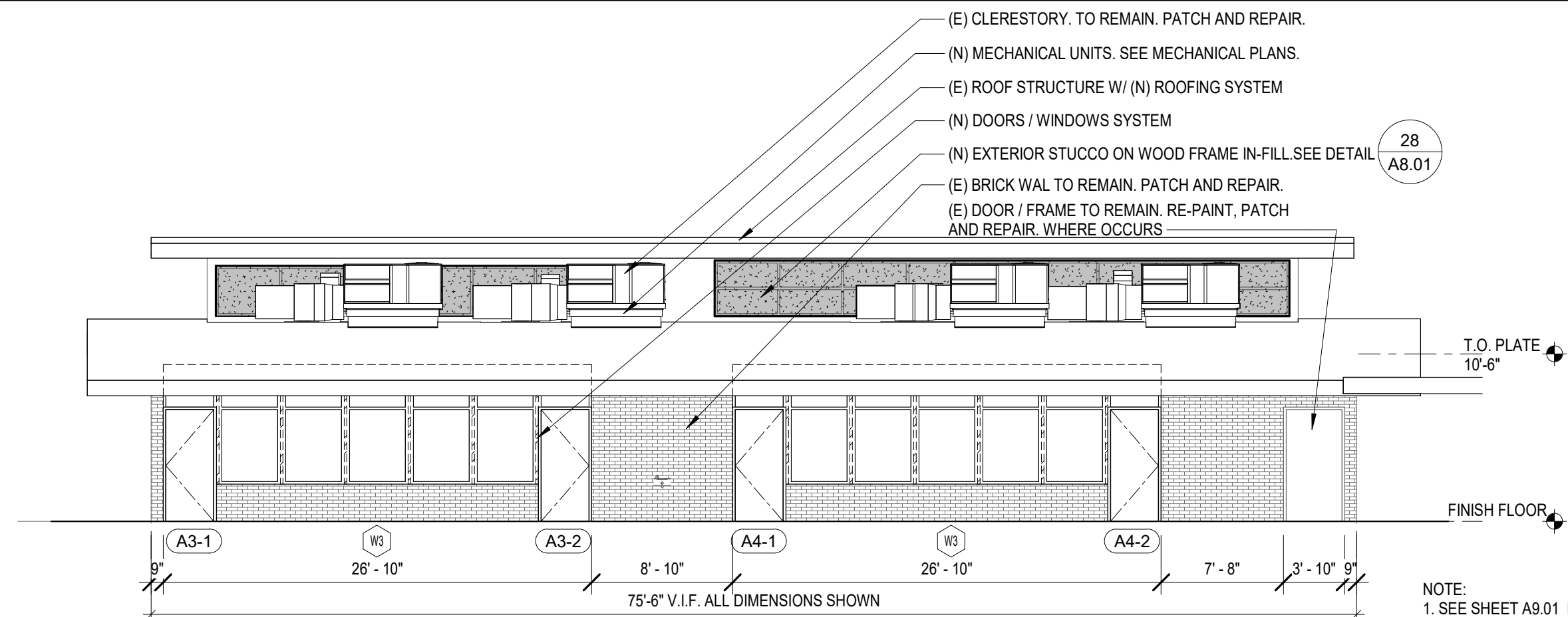
NOTE:
1. SEE SHEET A9.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



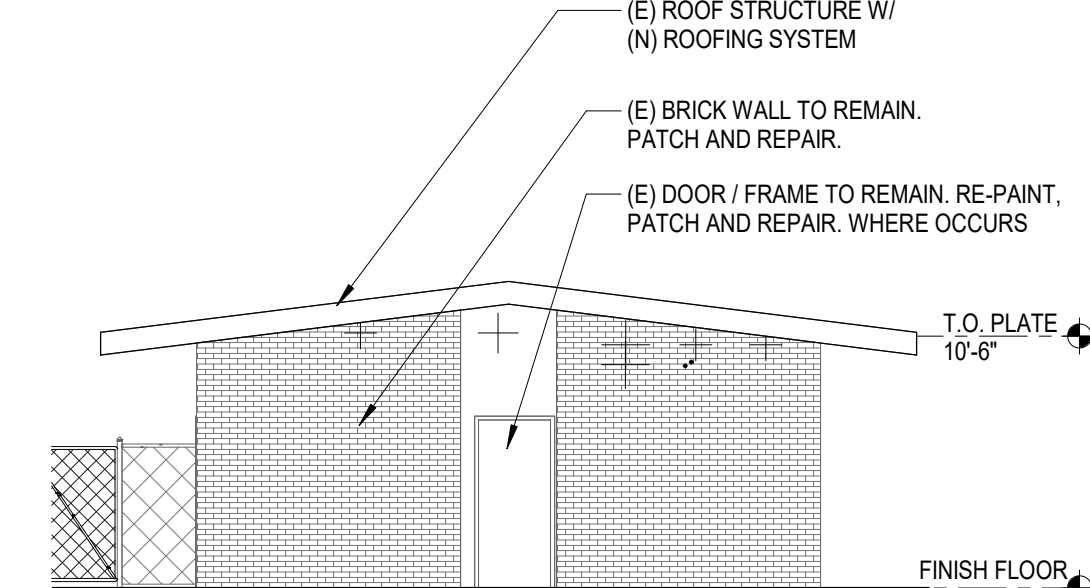
NOTE:
1. SEE SHEET A9.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



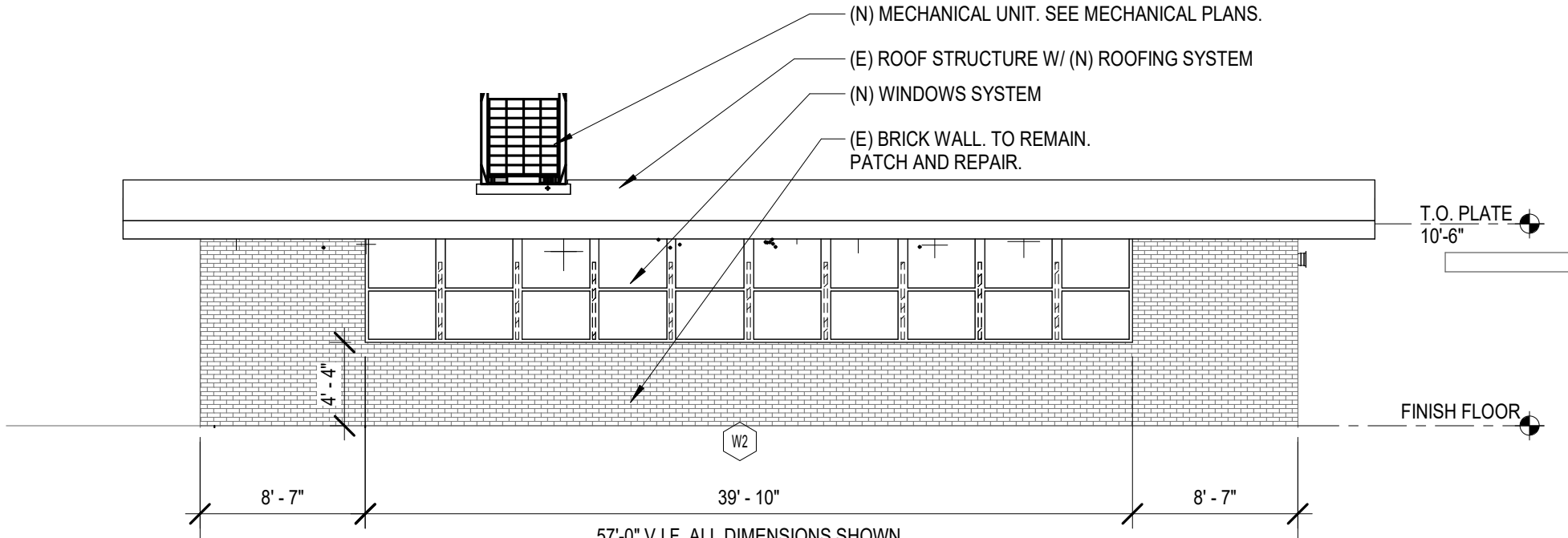
NOTE:
1. SEE SHEET A8.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



NOTE:
1. SEE SHEET A8.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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



NOTE:
1. SEE SHEET A9.01 FOR (N) DOORS / WINDOWS SYSTEM.
2. SEE SHEET A3.01 FOR (N) ROOFING SYSTEM.

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

EXTERIOR & INTERIOR PAINT SCOPE OF WORK

- 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 OF 4 COLORS TO BE SELECTED BY THE ARCHITECTS.
- GENERAL CONTRACTOR TO NOTIFY AND DOCUMENT ANY AREAS WITH DRYROT AND / OR TERMITE DAMAGE IN WRITTEN FORMAT PRIOR TO BID.
- PROVIDE APPROPRIATE PREPARATION, CLEANING AND BASE MATERIAL AT EXISTING EXTERIOR FINISHES BEFORE RECEIVING NEW FINISHES. PER FINISH SPECIFICATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PRK

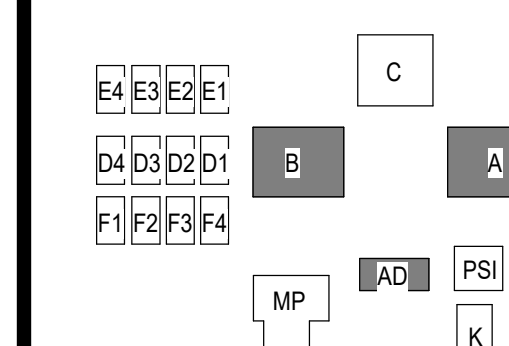
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KEY PLAN
NORTH: PLAN

Consultant

Architect

Architect

Architect

Architect

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE 12-29-2022 PROJECT NUMBER 220309

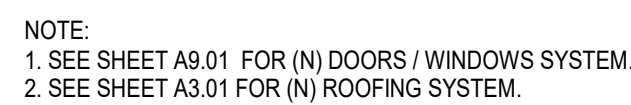
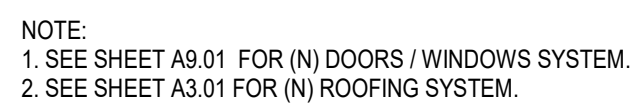
REVISIONS

No. Description Date

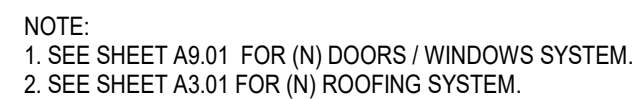
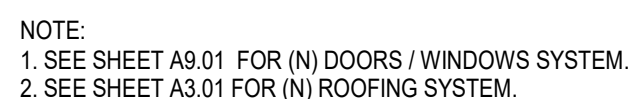
DSA SUBMITTAL

EXTERIOR ELEVATIONS

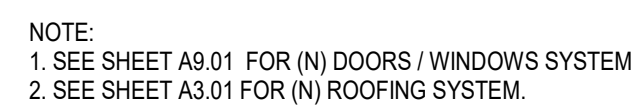
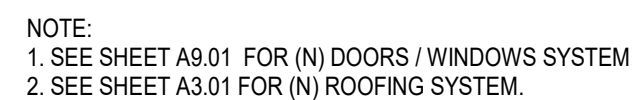
A6.01


$$1/8" = 1'-0"$$


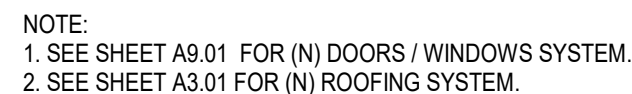
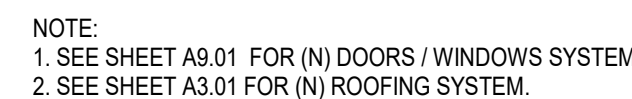
1/8" = 1'-0"

 $1/8" = 1'-0"$ 

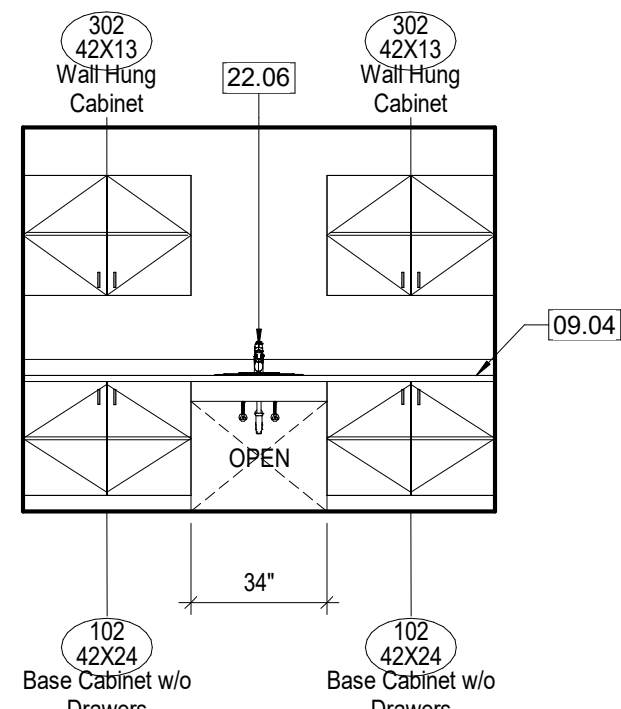
1/8" = 1'-0"


$$1/8'' = 1'-0''$$


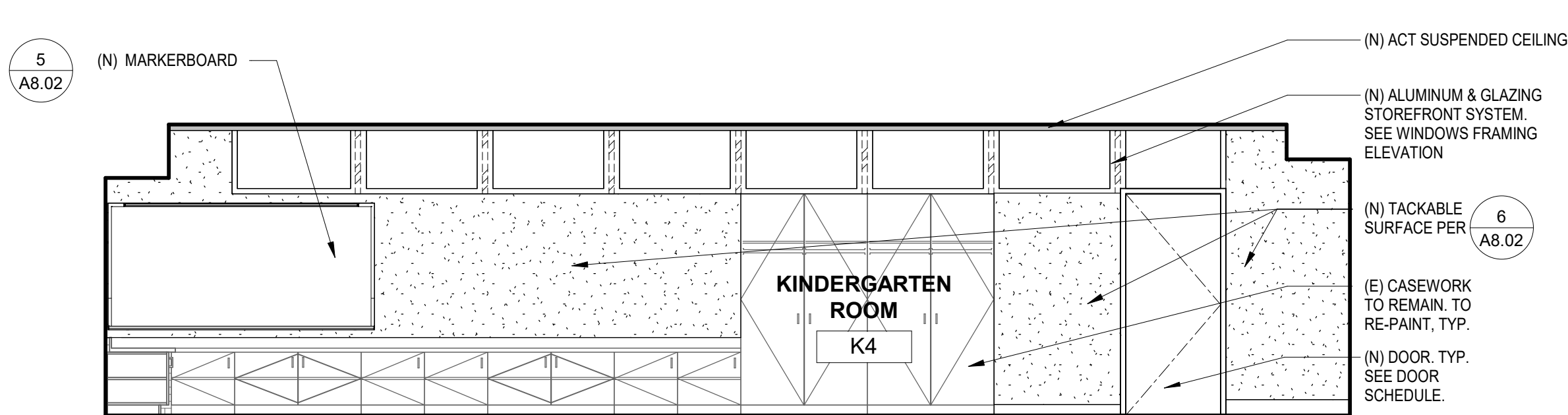
1/8" = 1'-0"

 $1/8" = 1'-0"$ 
$$\underline{1/8'' = 1'-0''}$$

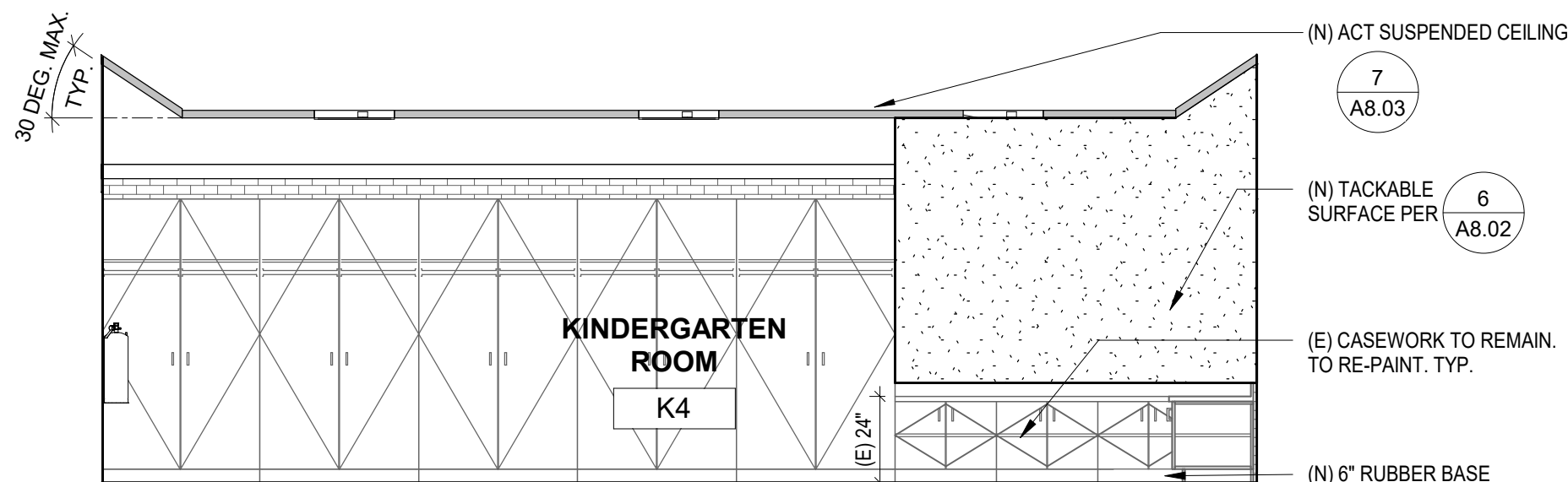
A6.02



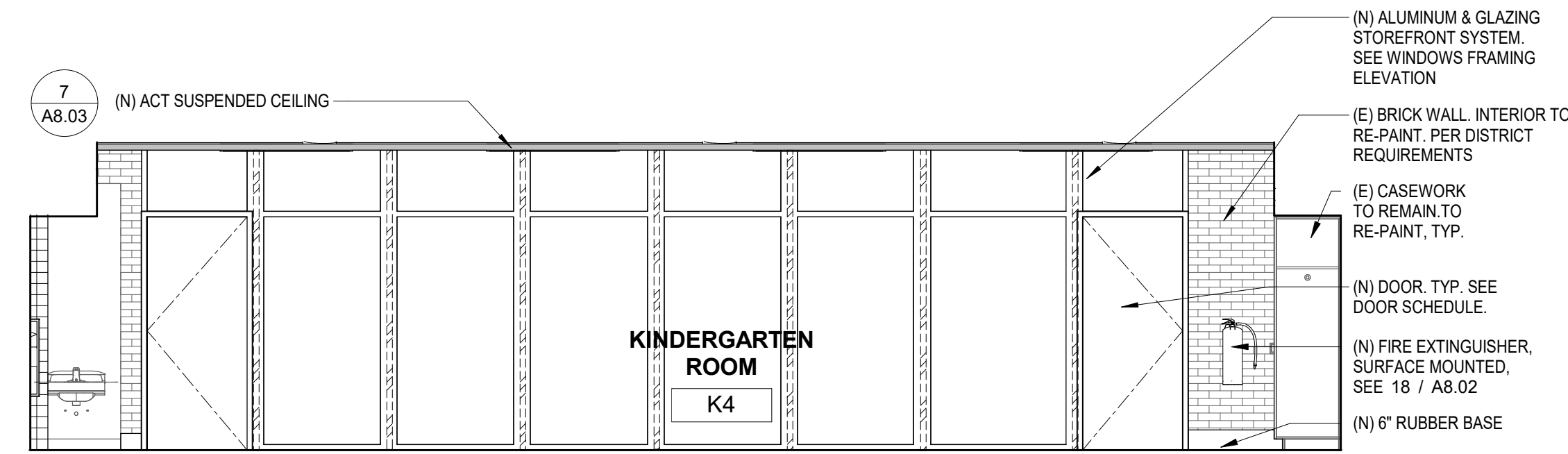
25 NURSE CASEWORK ELEVATION
1/4" = 1'-0"



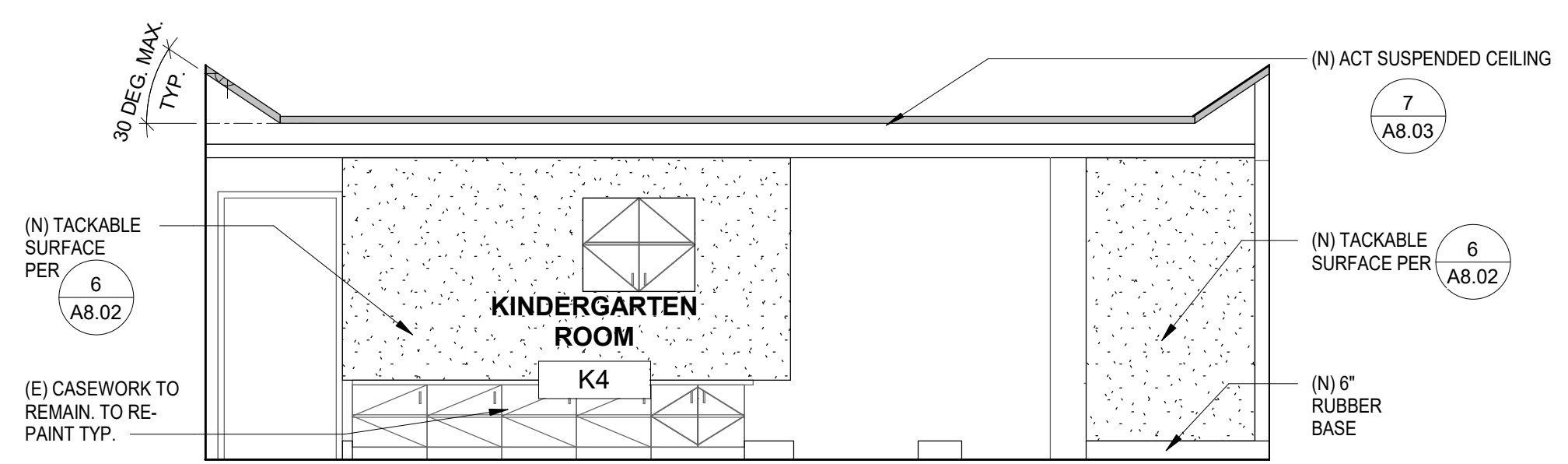
16D K4 - NORTH INTERIOR ELEVATION
1/4" = 1'-0"



16C K4 - WEST INTERIOR ELEVATION
1/4" = 1'-0"

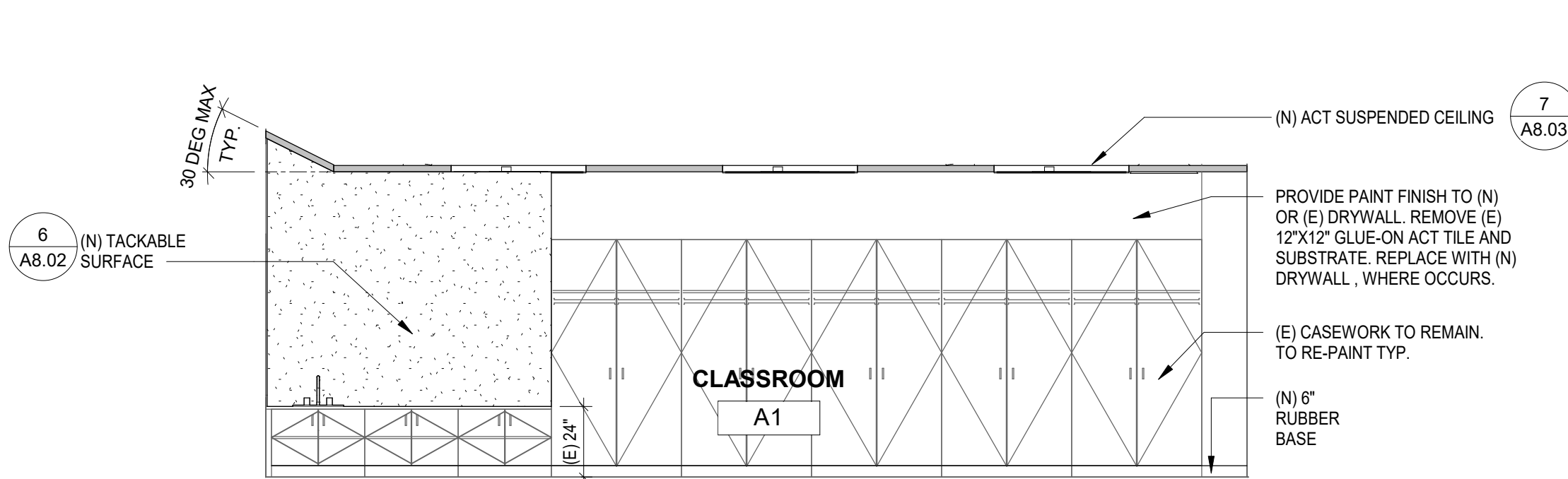


16B K4 - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"

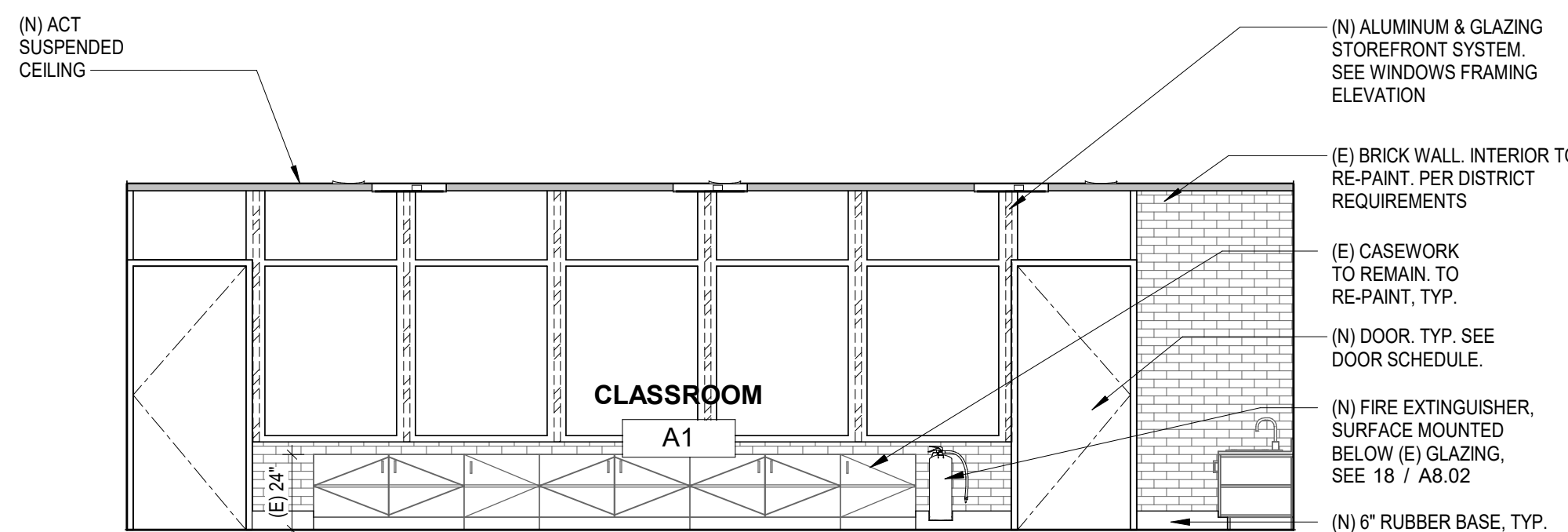


16A K4 - EAST INTERIOR ELEVATION
1/4" = 1'-0"

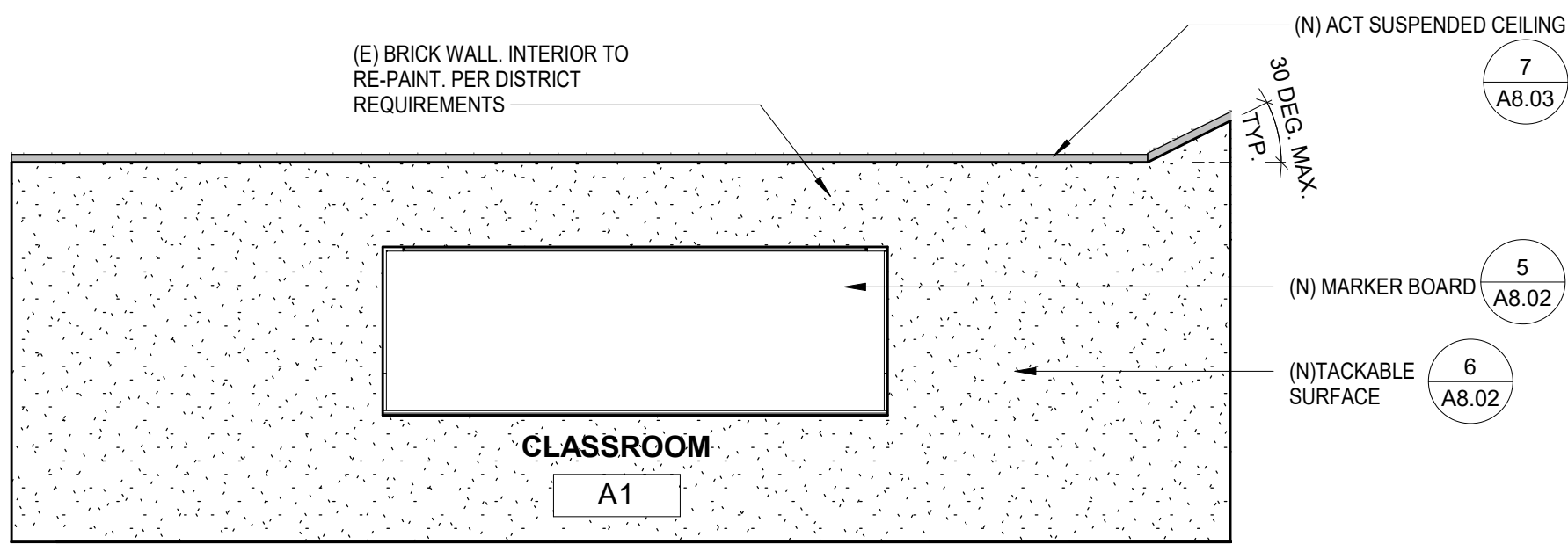
16 KINDERGARTEN K4 - INTERIOR ELEVATIONS
1/4" = 1'-0"



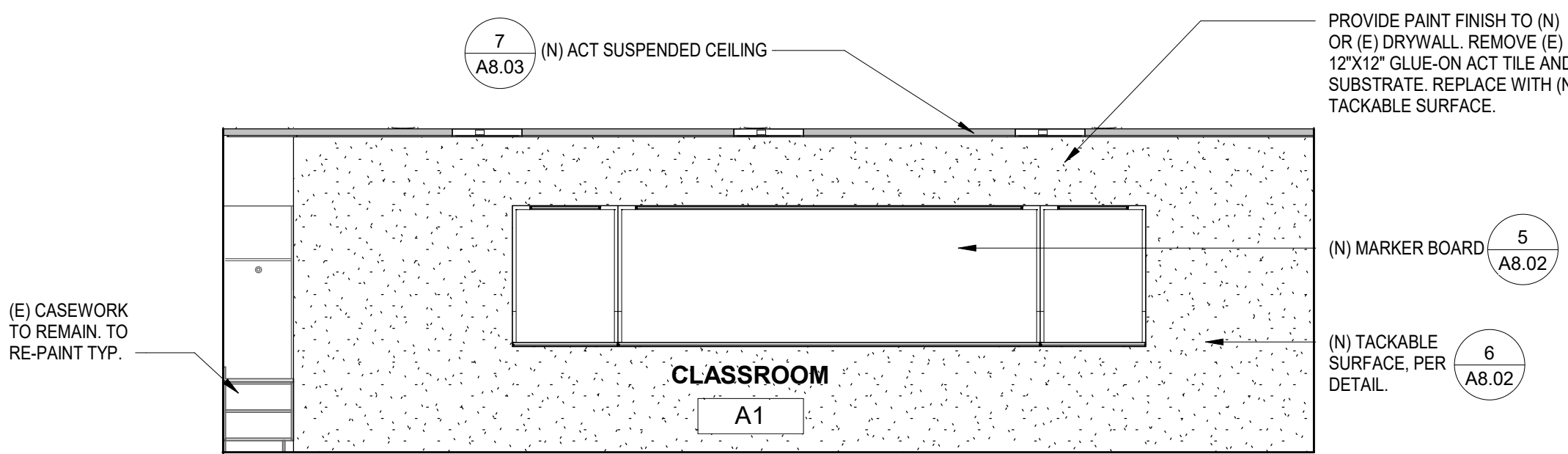
4D TYP. CLASSROOM - NORTH INTERIOR ELEVATION
1/4" = 1'-0"



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

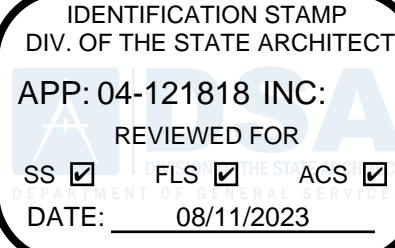


4B TYP. CLASSROOM - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



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

4 TYPICAL CLASSROOM BLDG A, B, C - INTERIOR ELEVATIONS
1/4" = 1'-0"

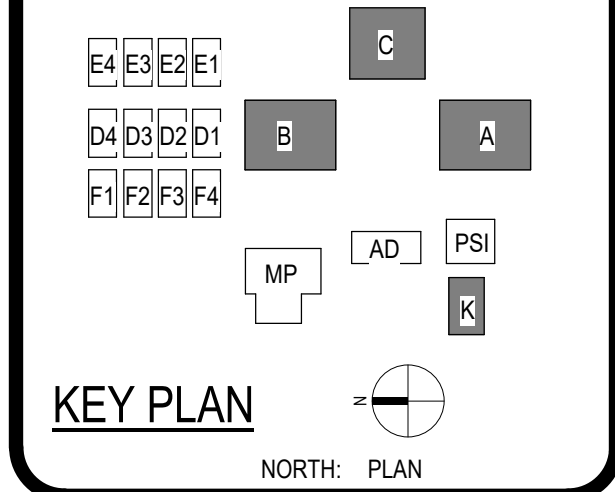


ARCHITECT PBK Architects, Inc.
ANAHEIM
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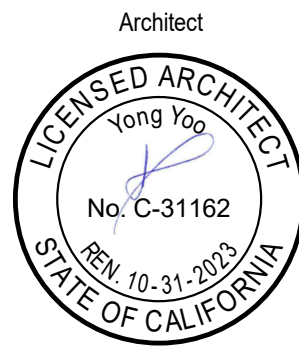
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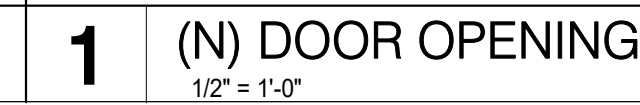
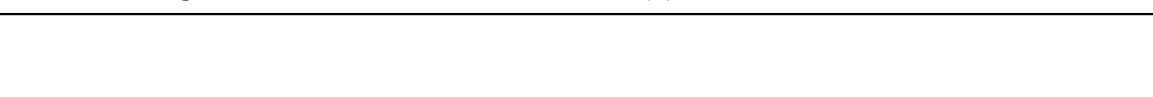
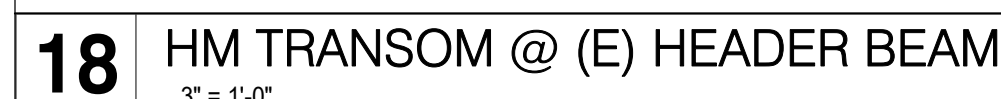
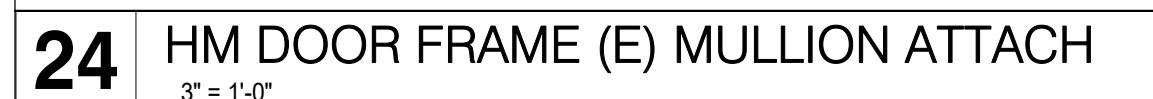
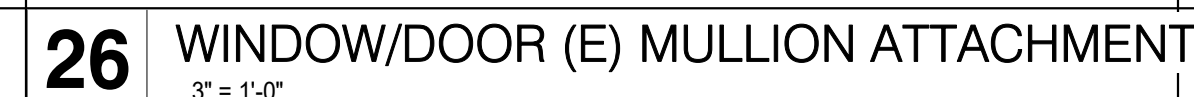
Consultant

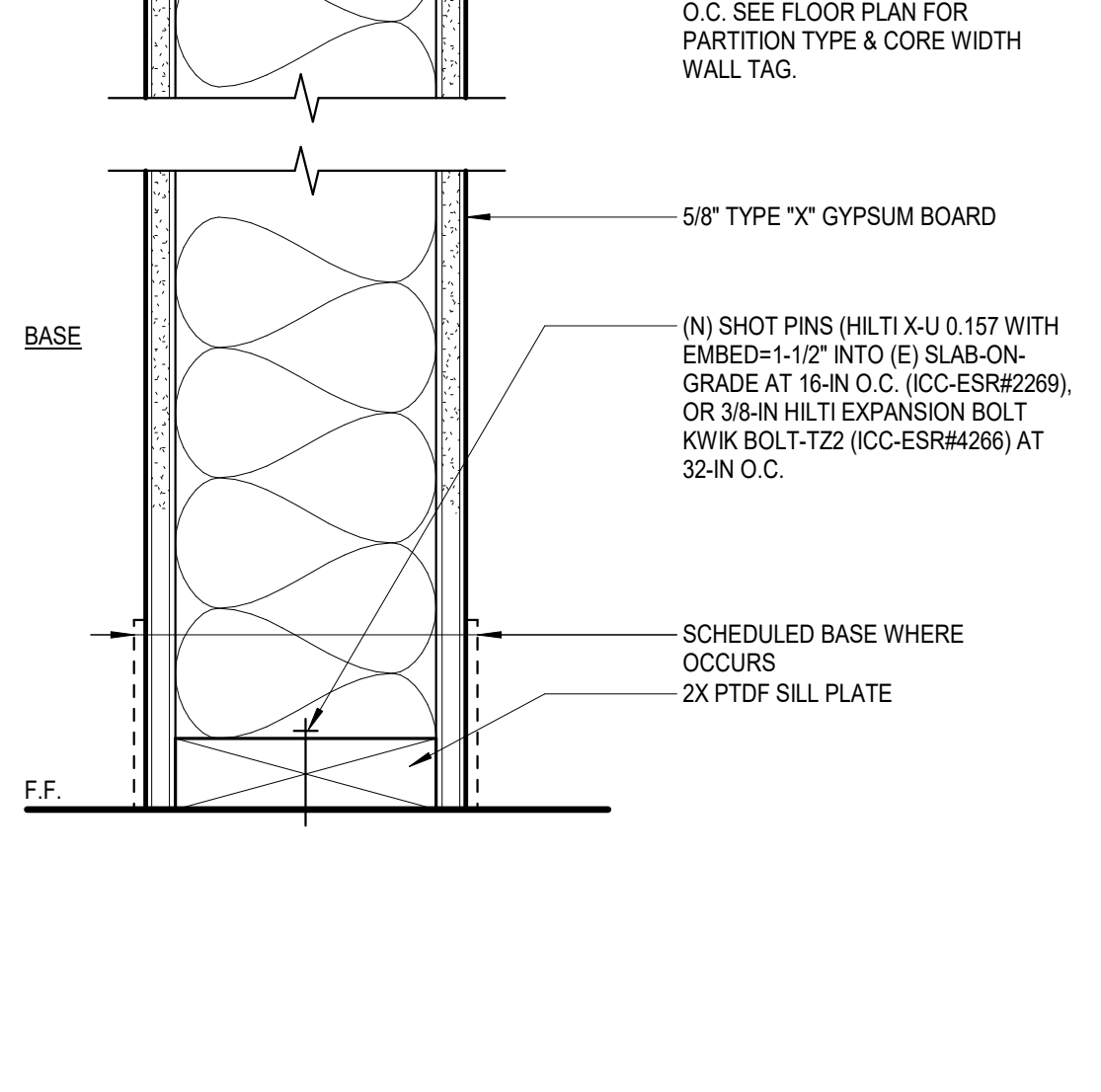
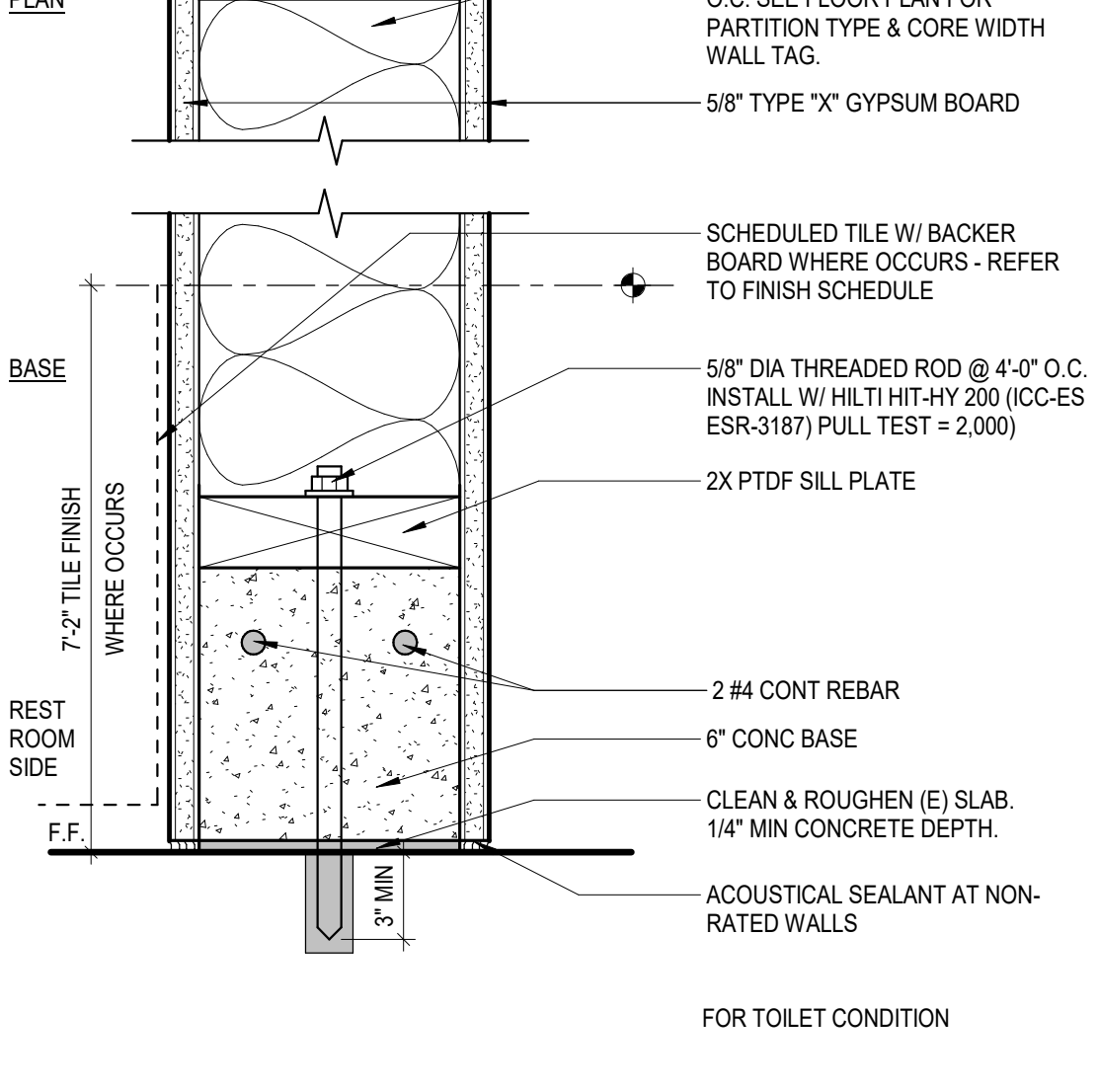
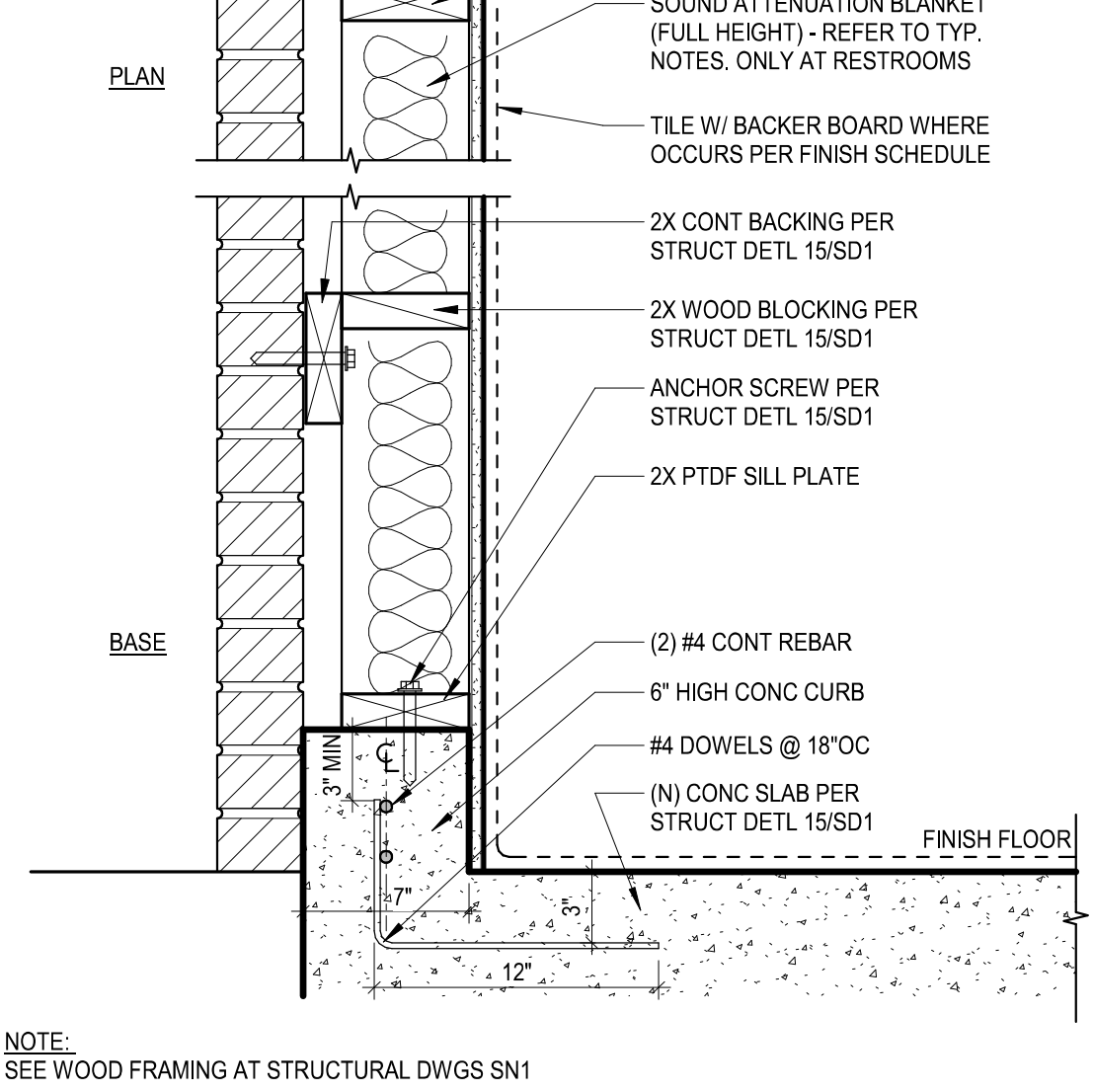
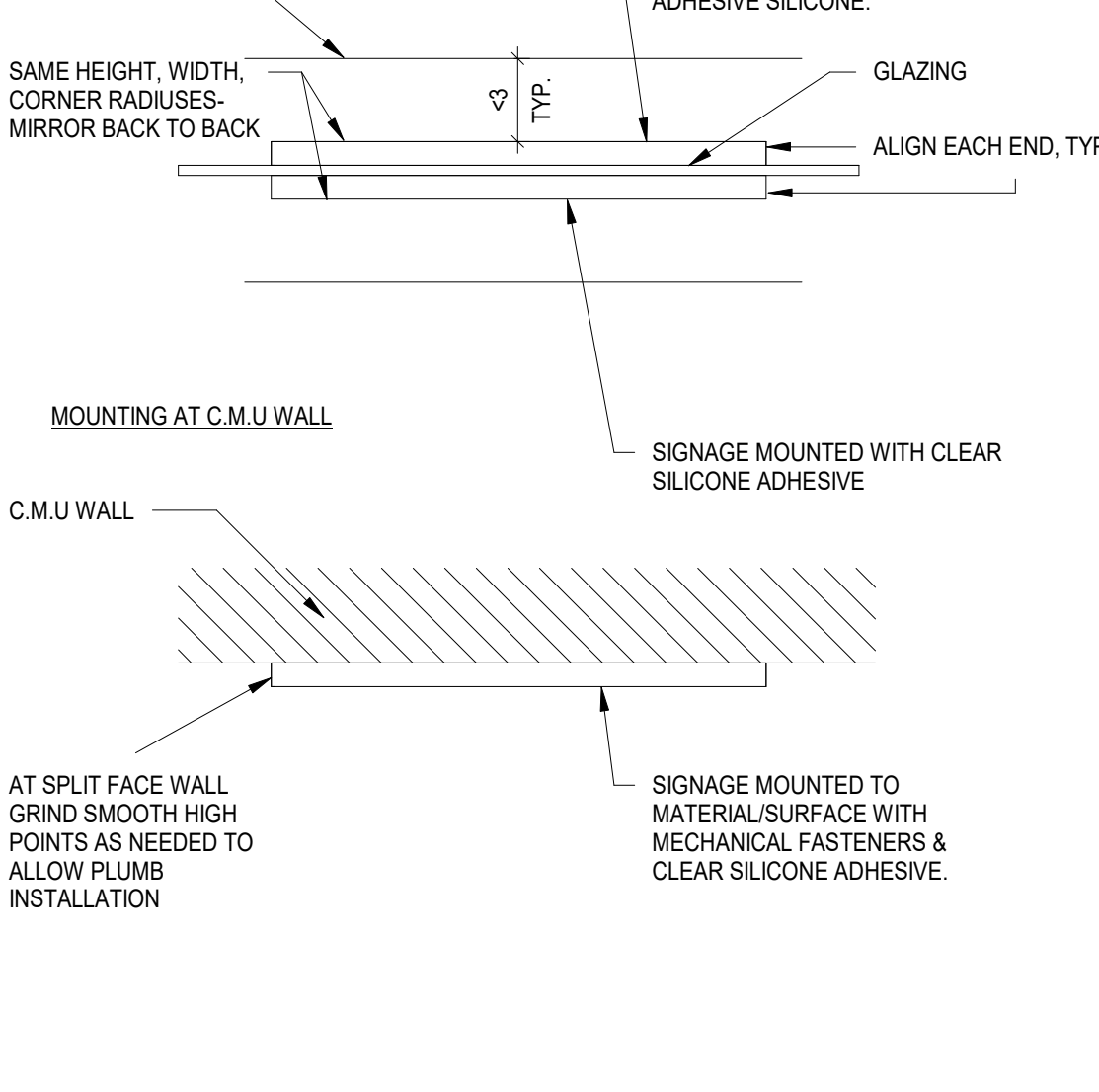
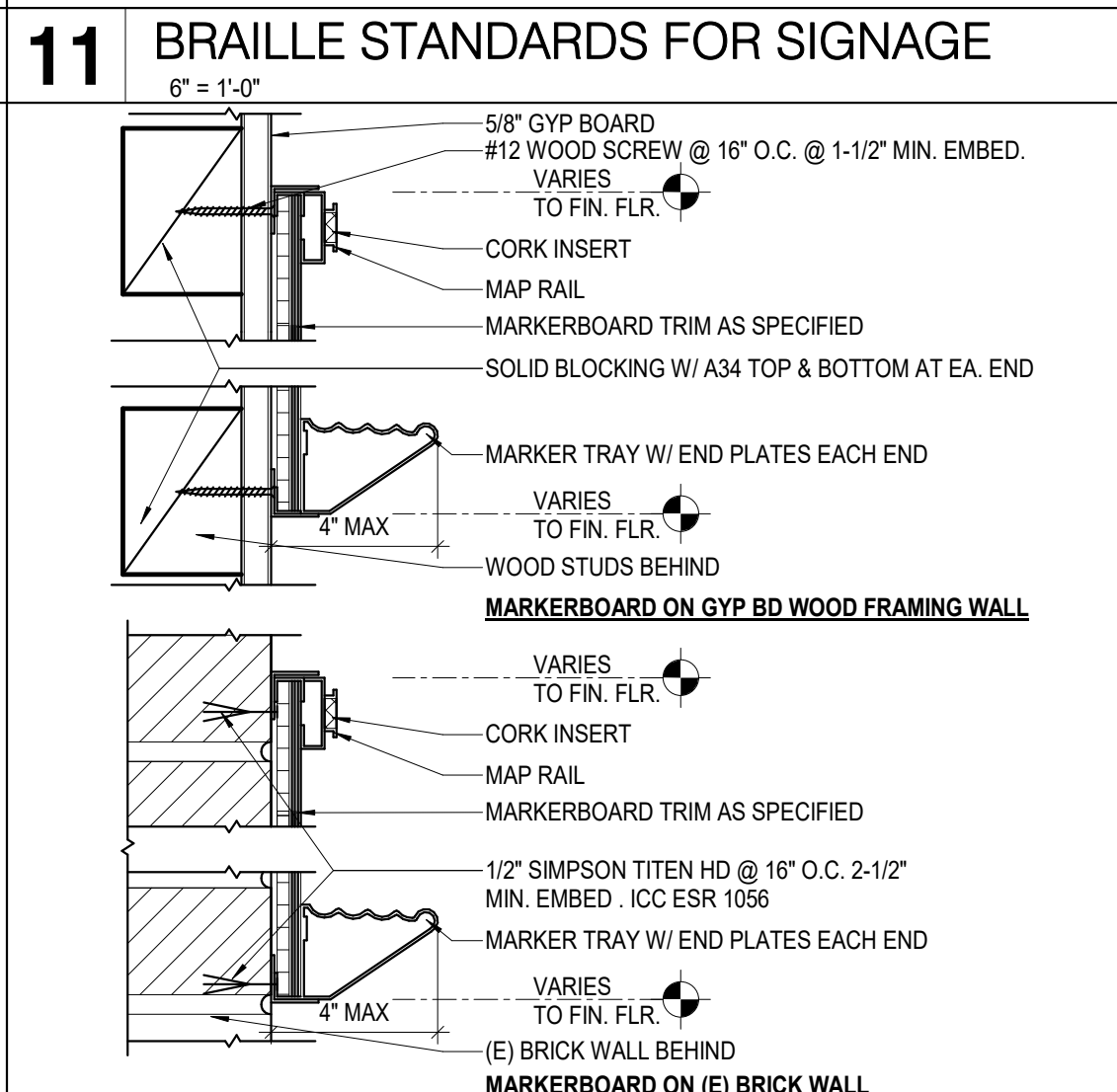
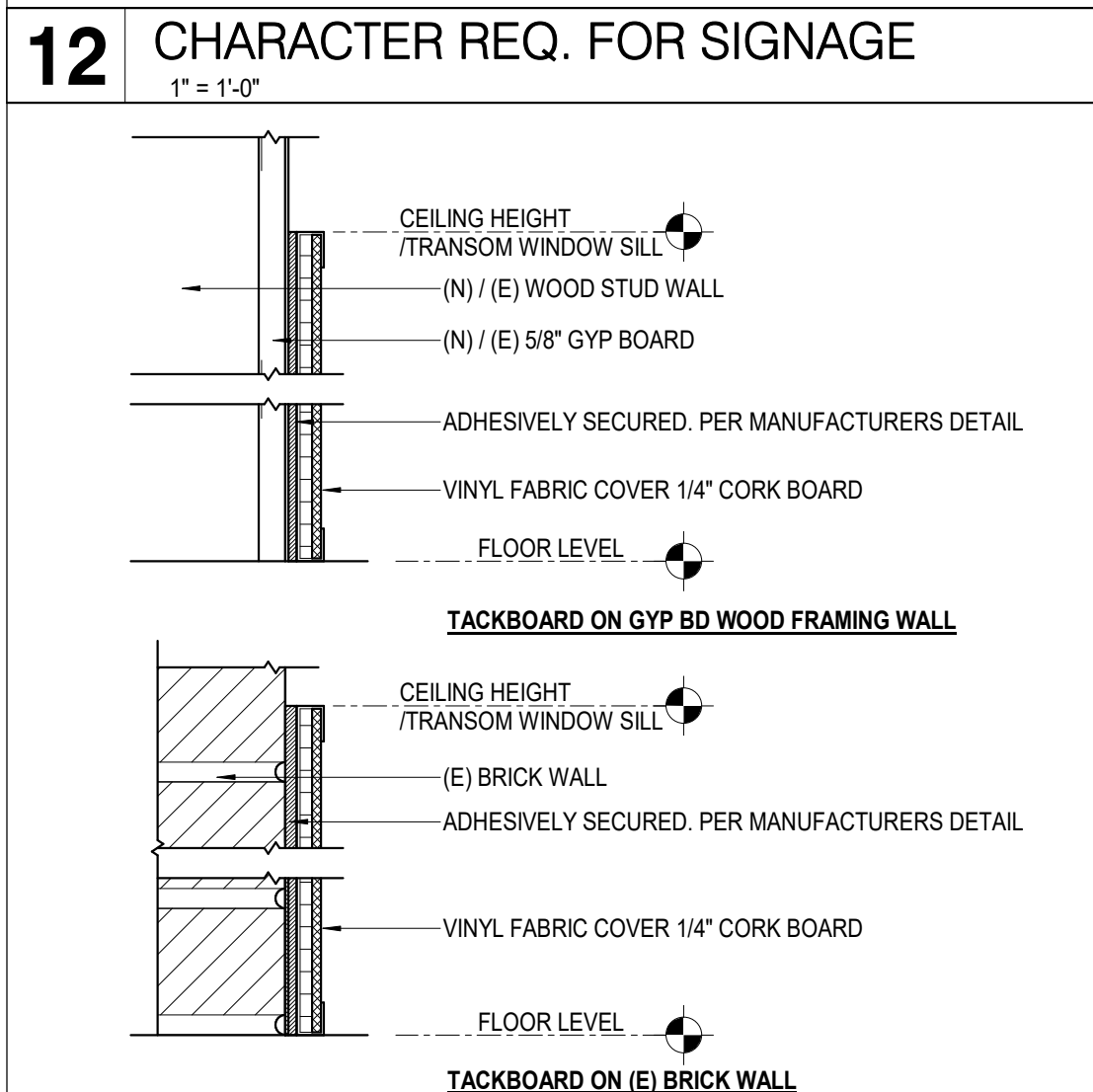


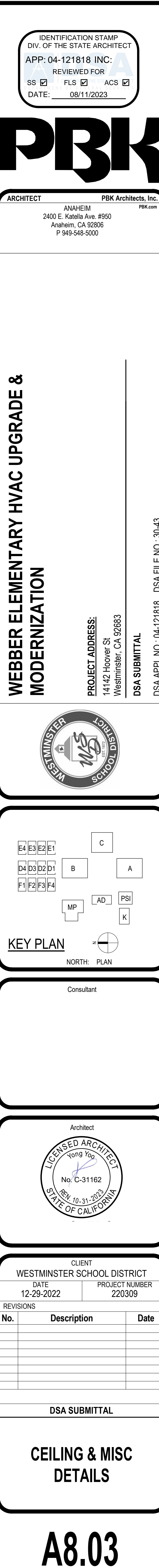
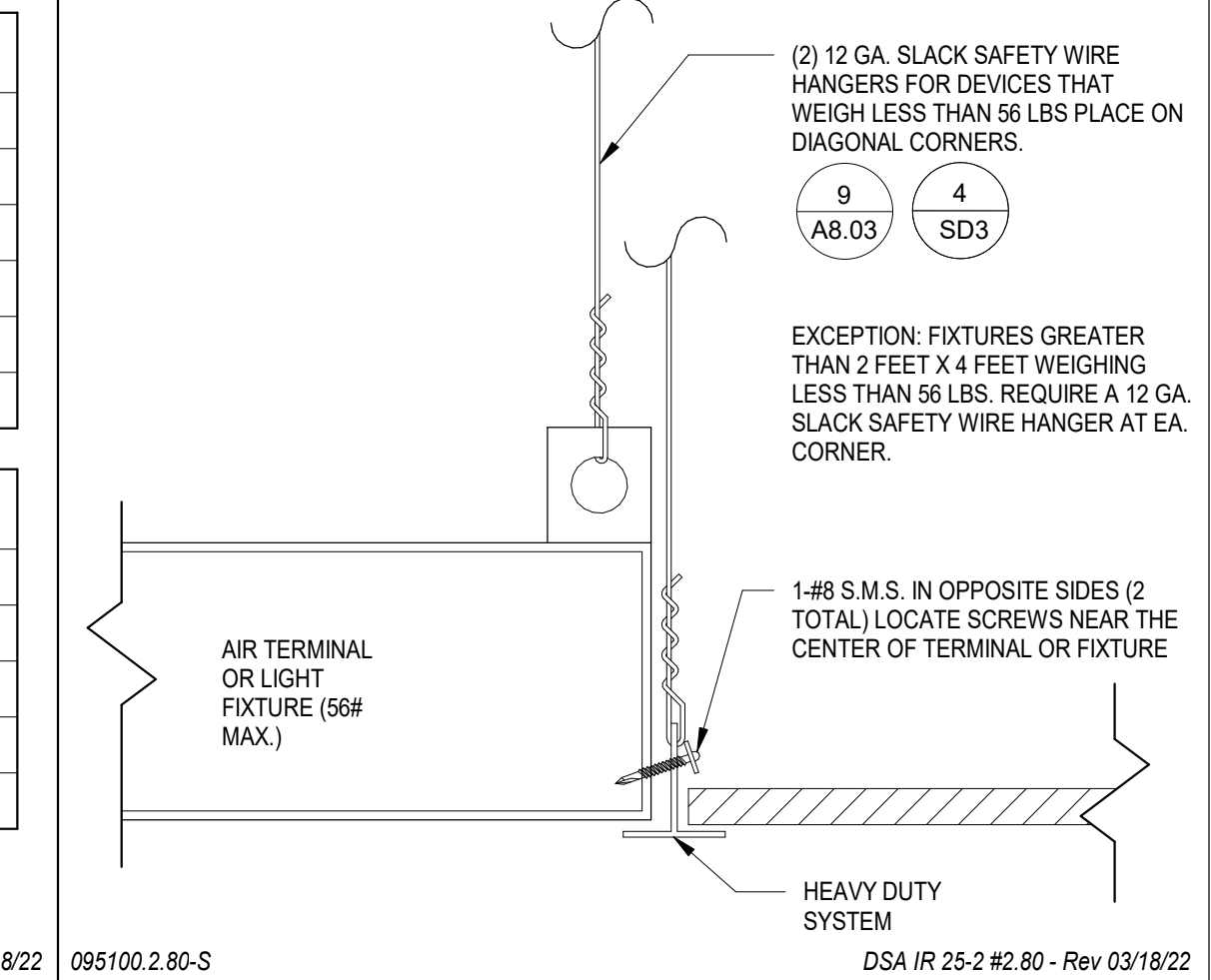
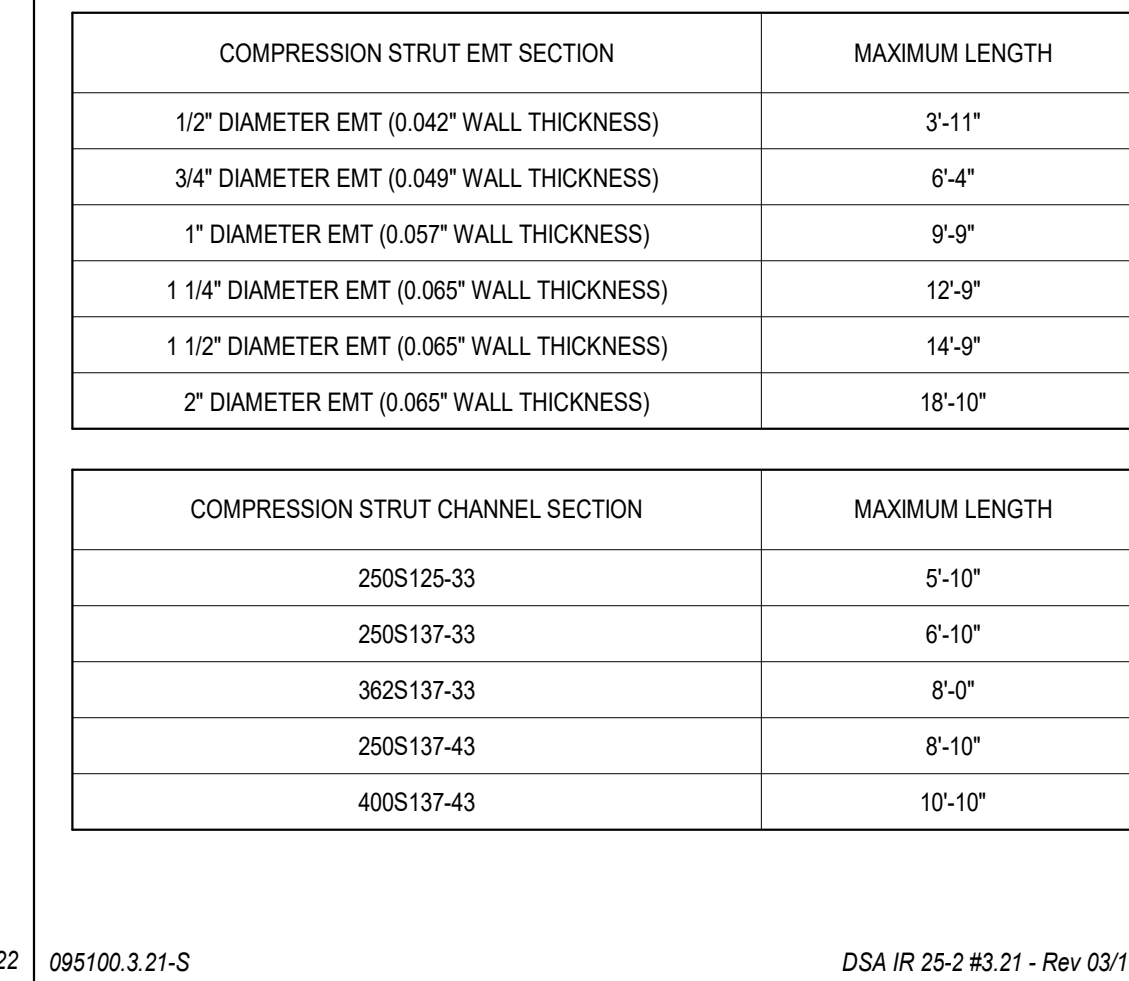
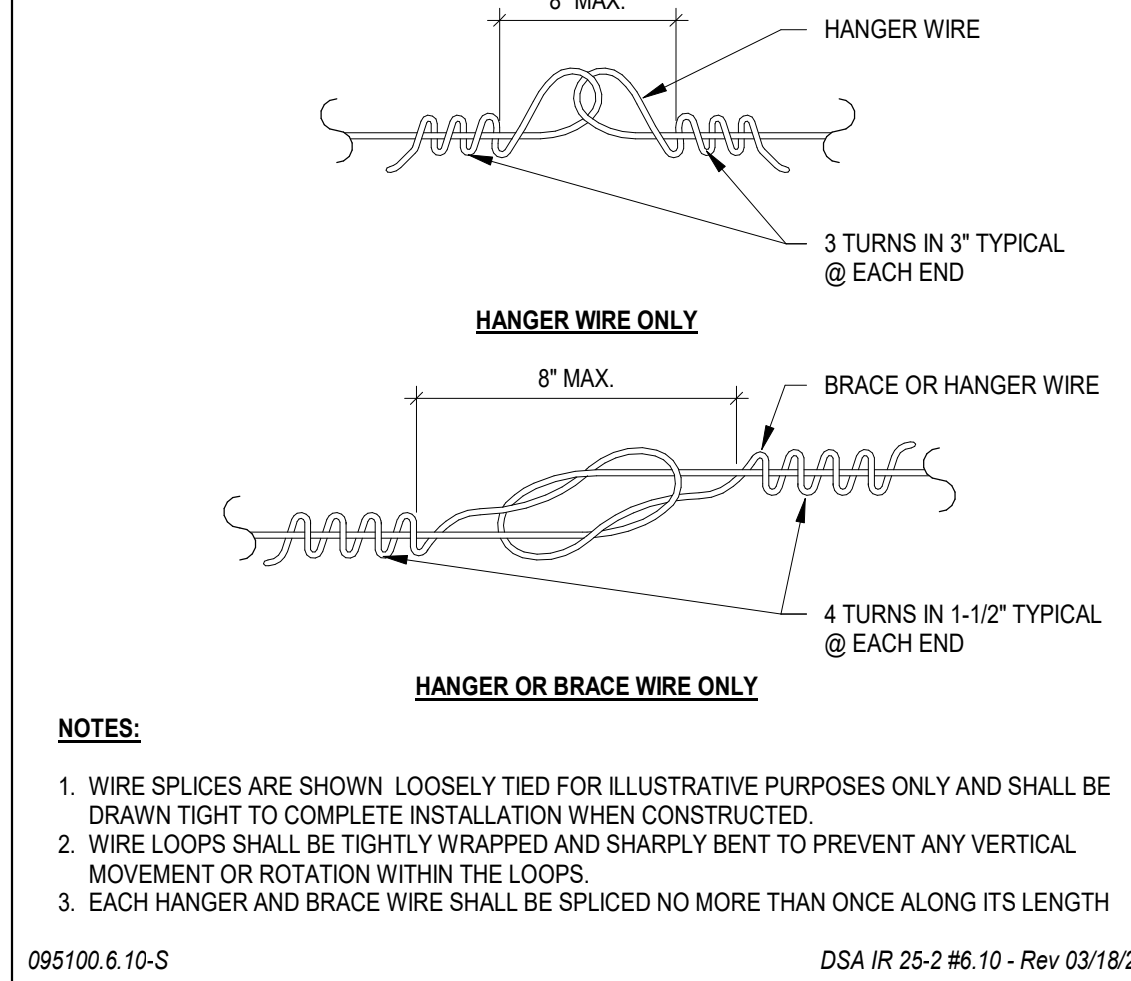
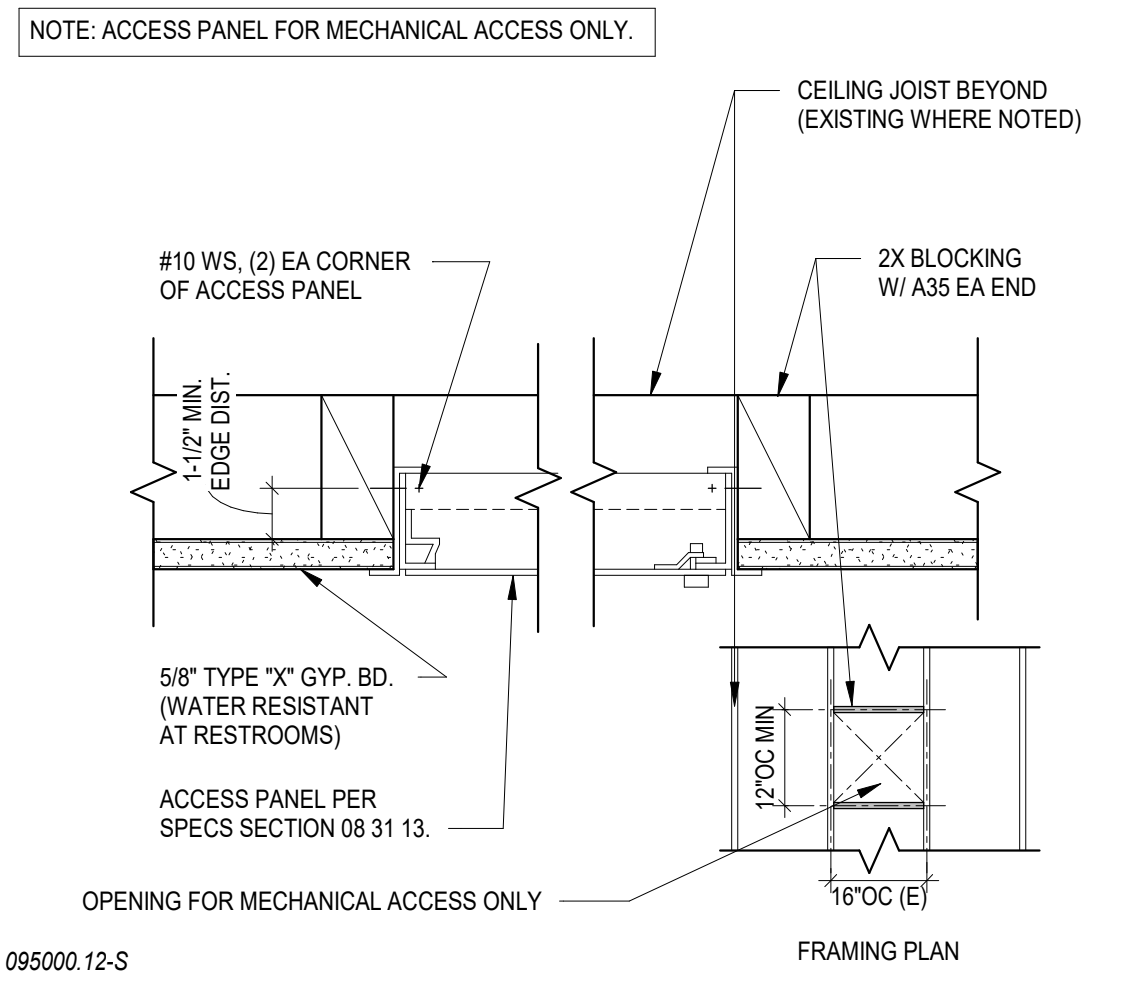
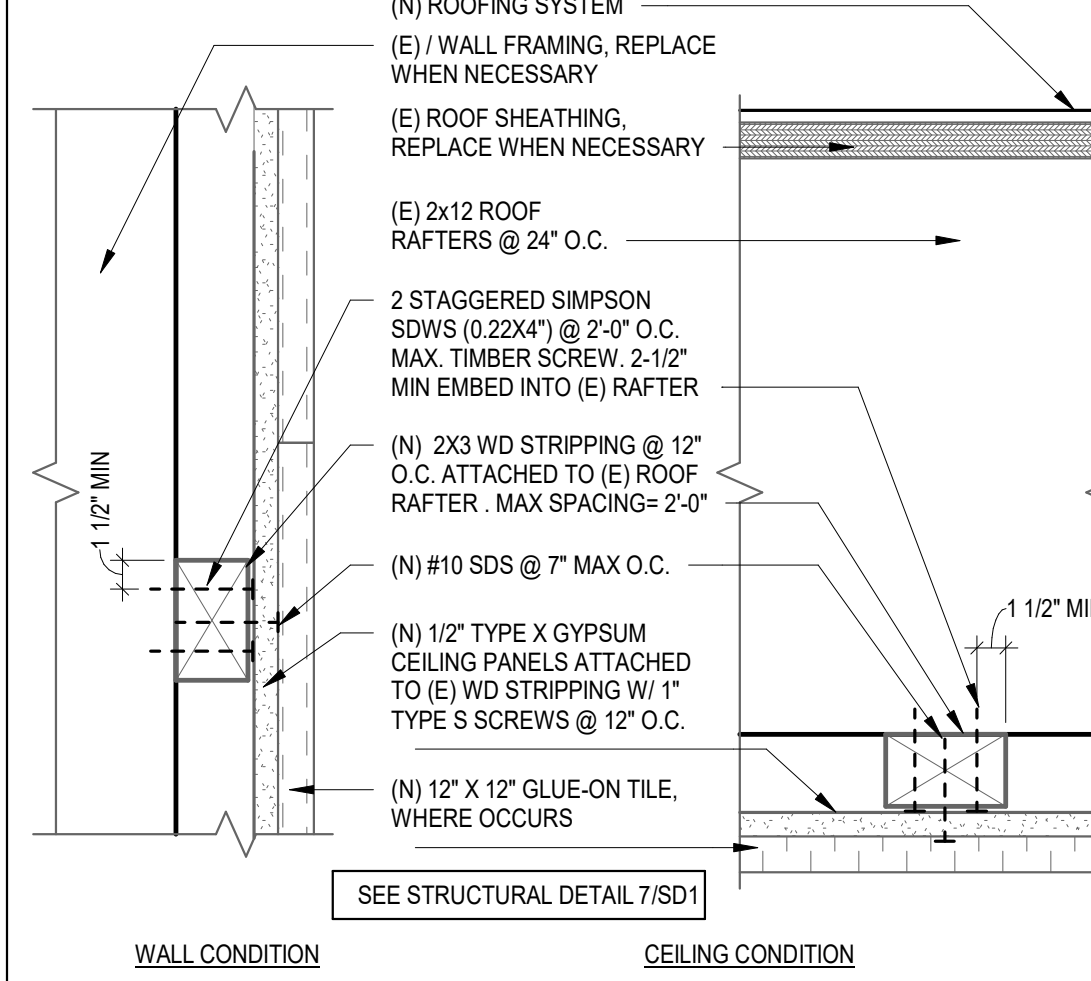
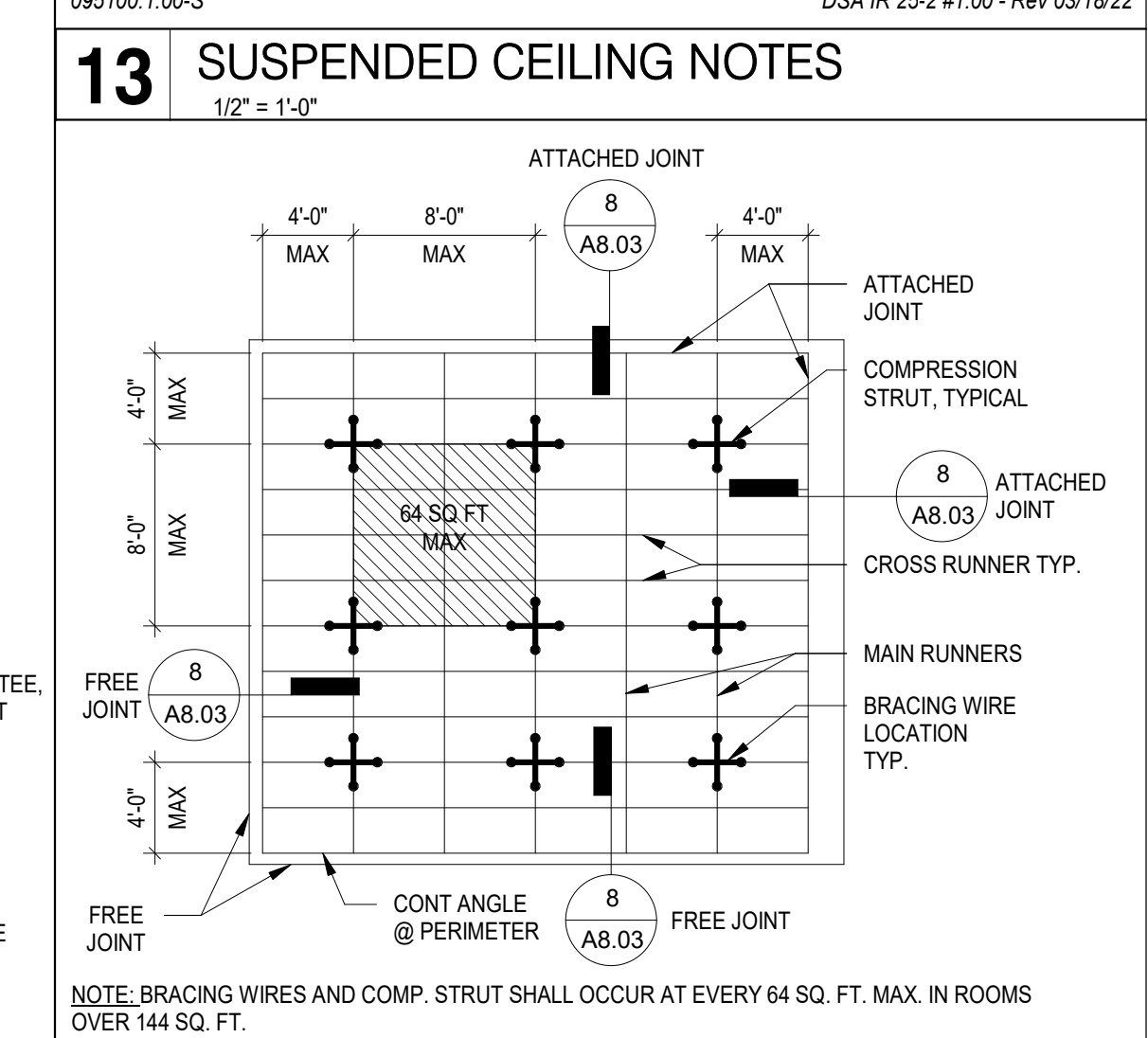
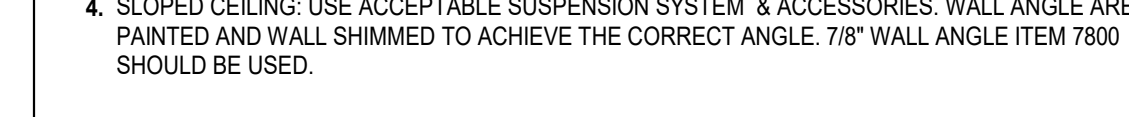
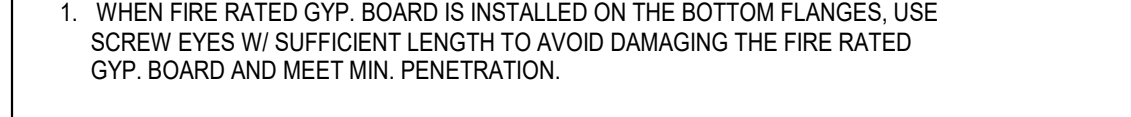
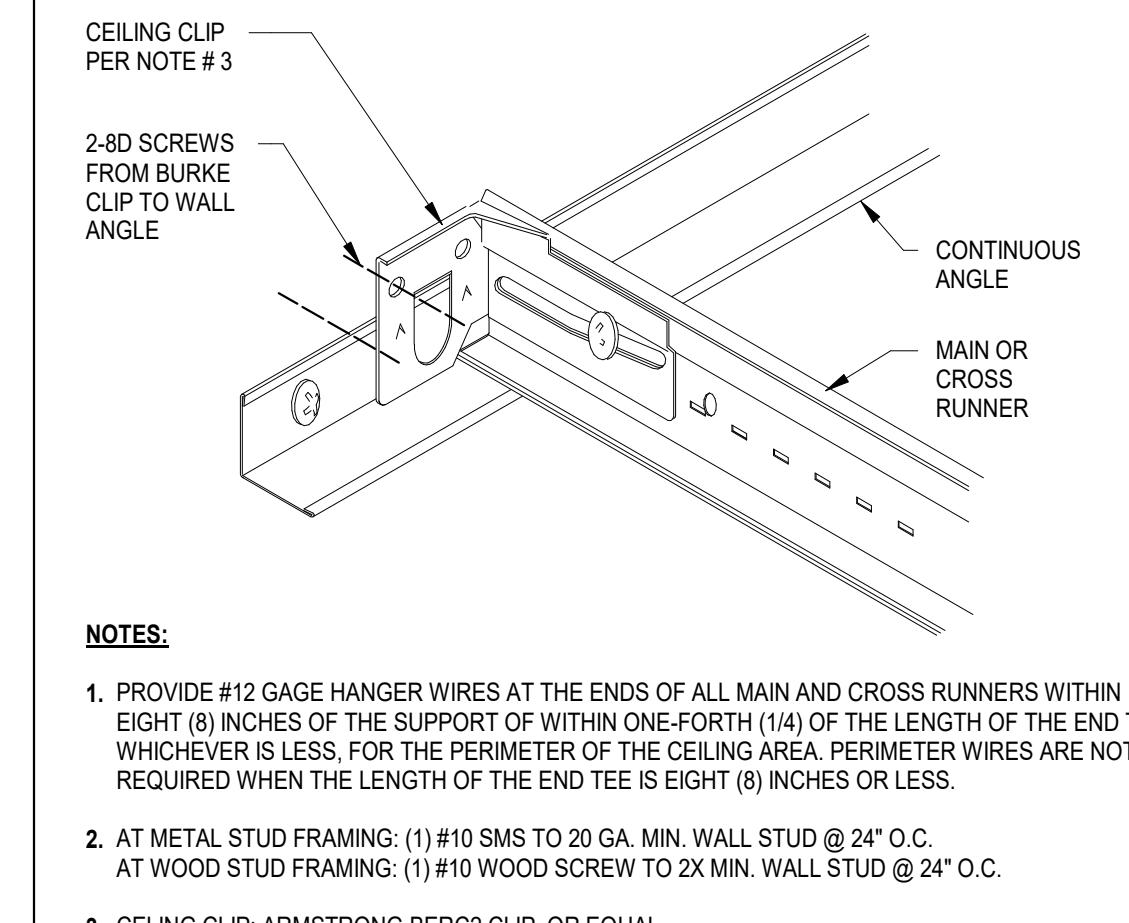
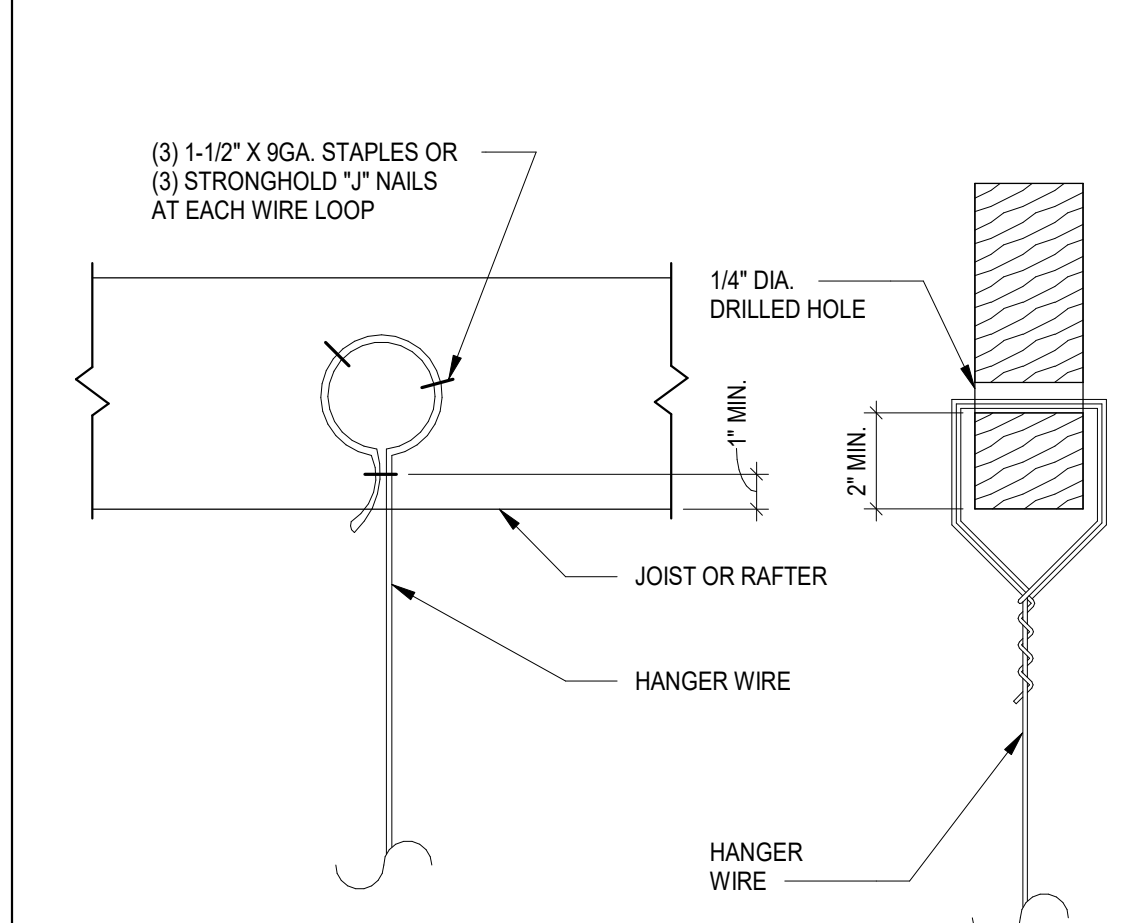
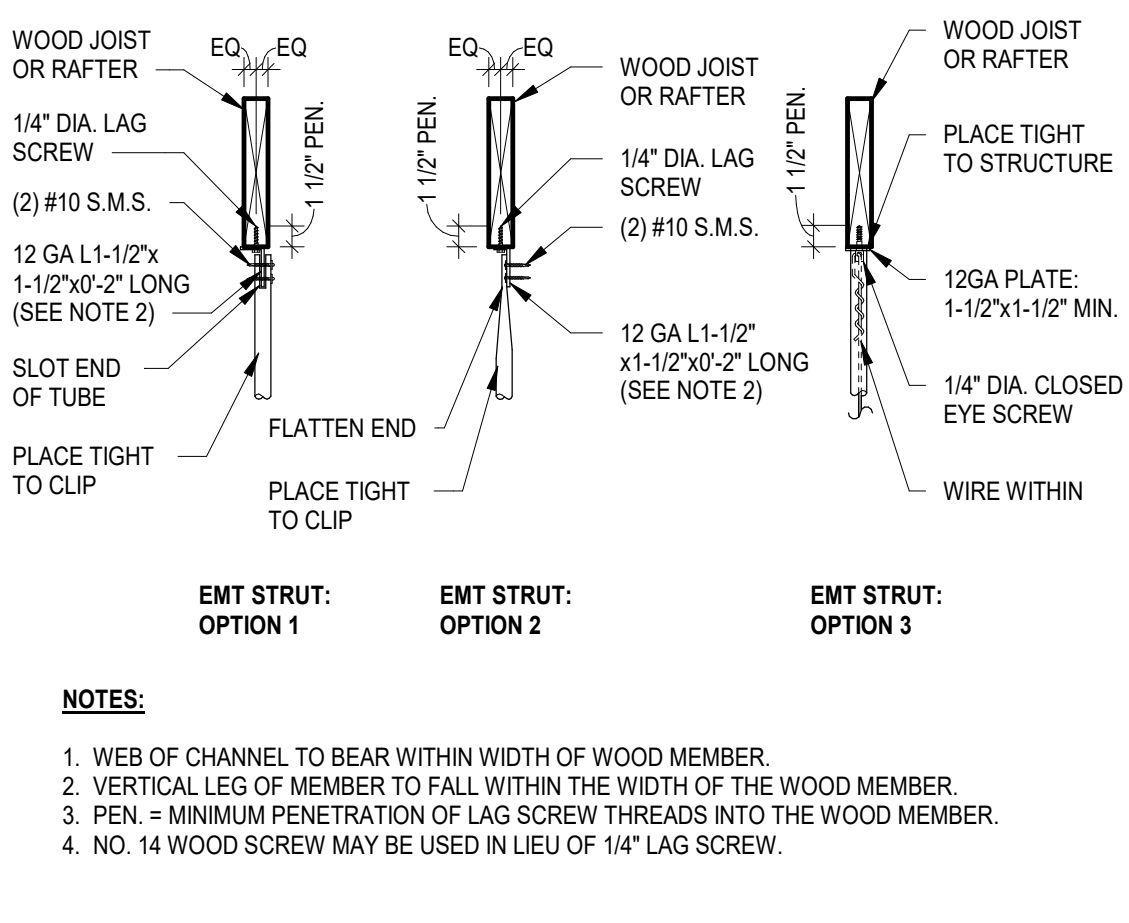
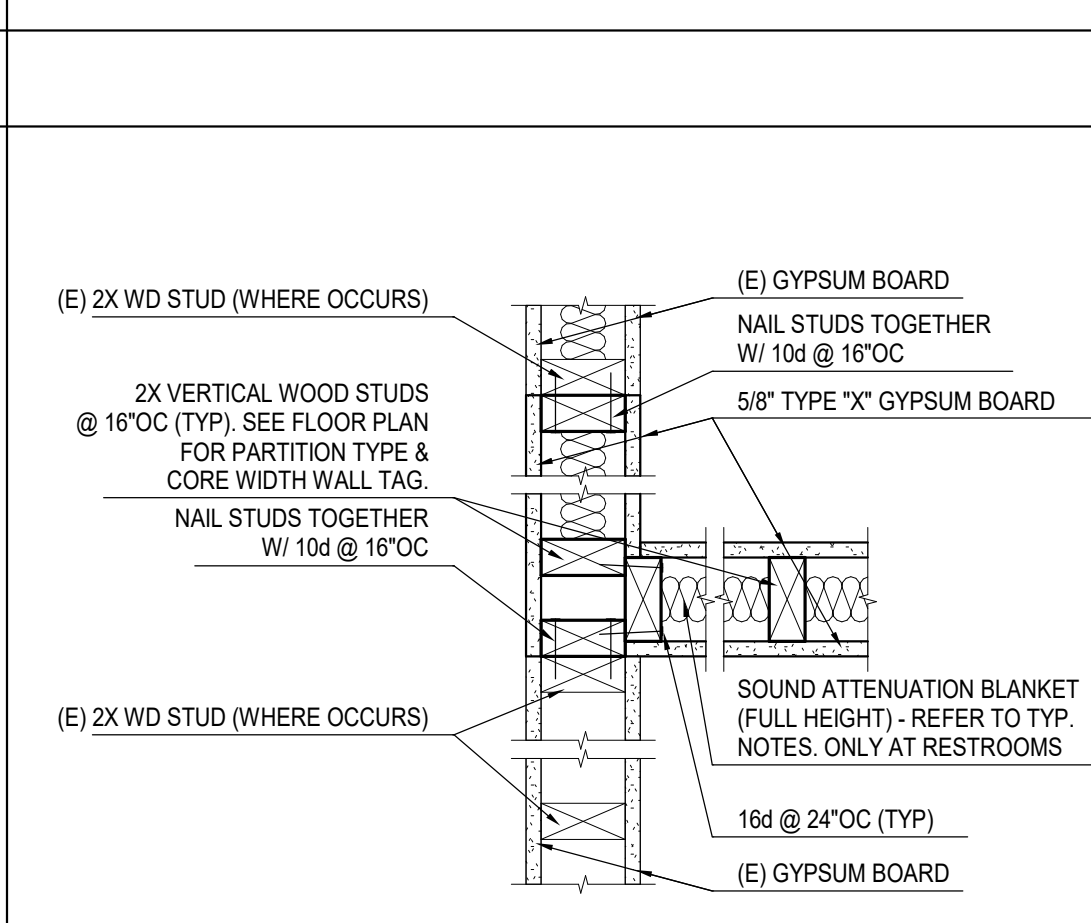
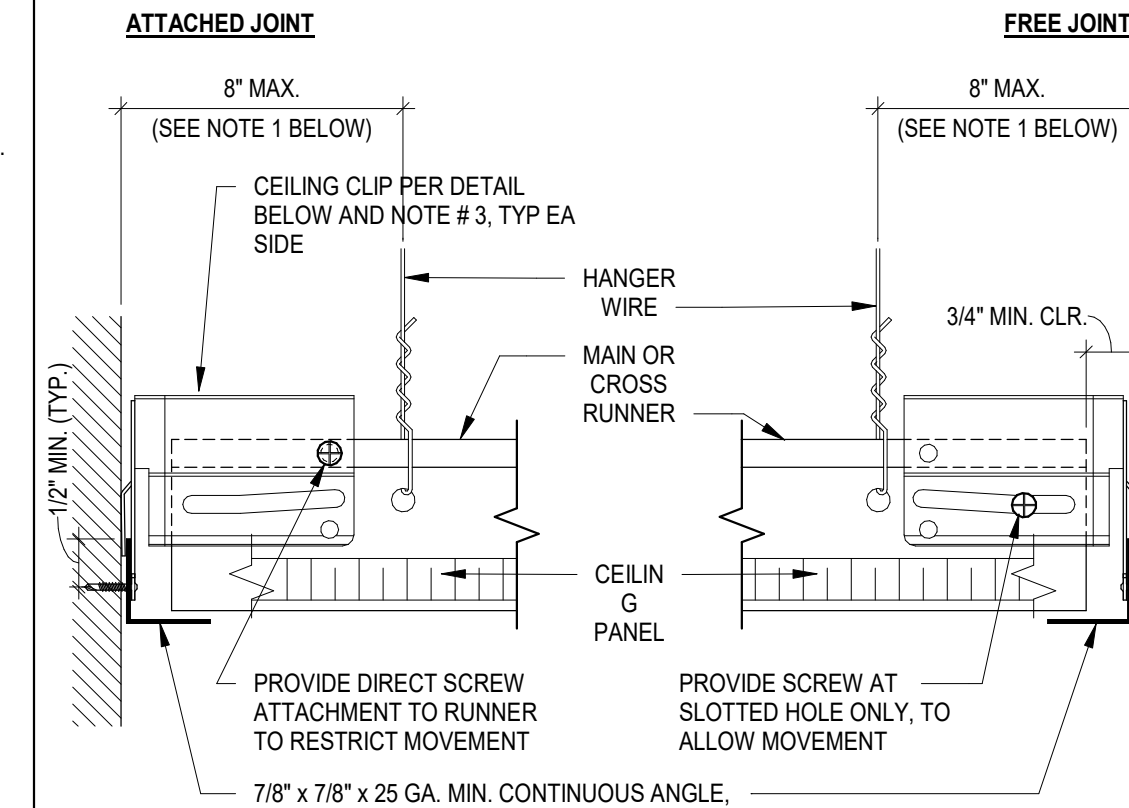
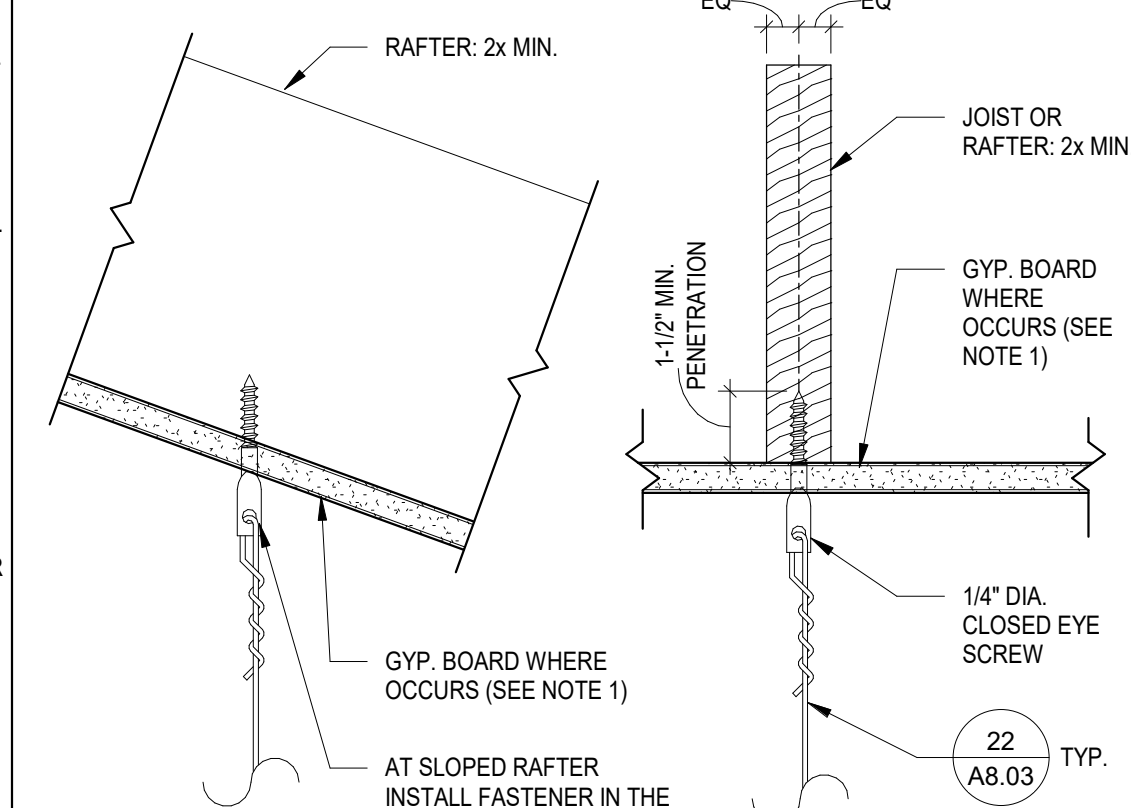
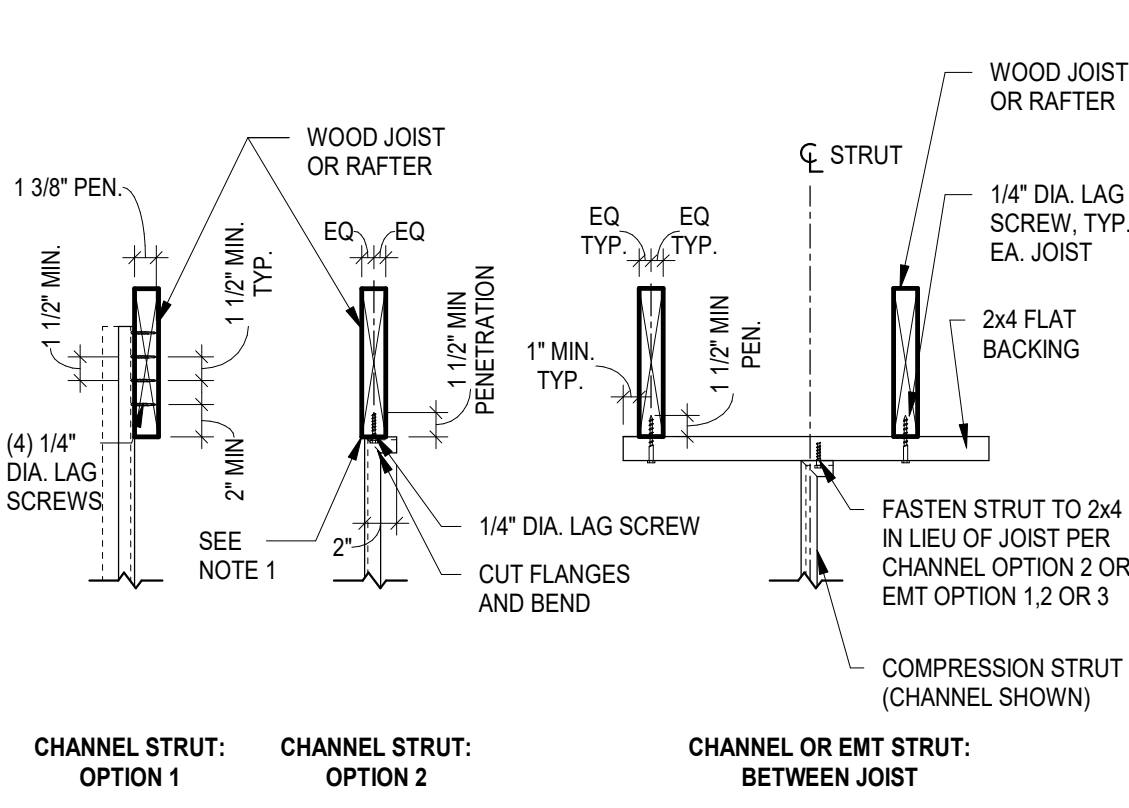
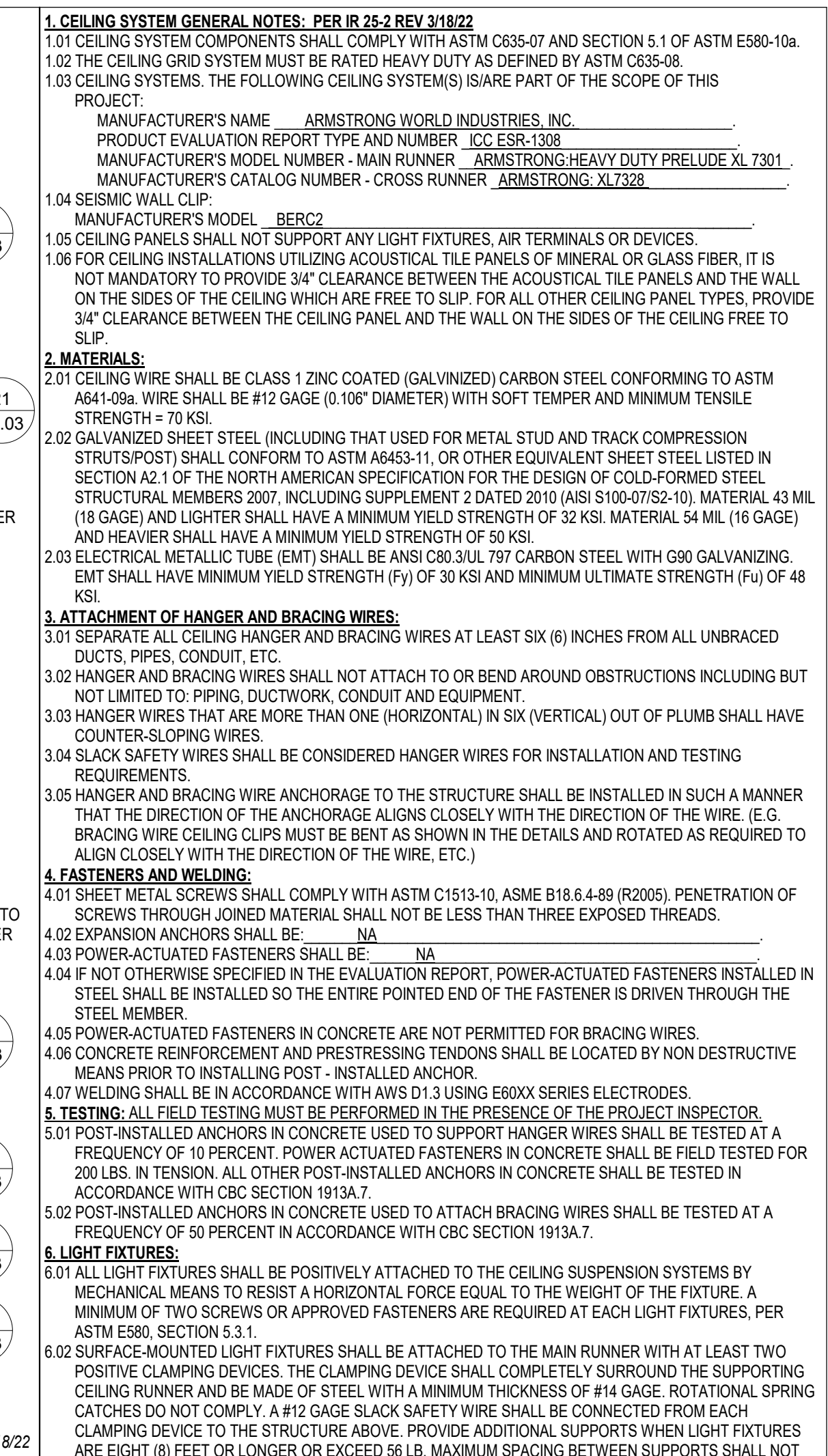
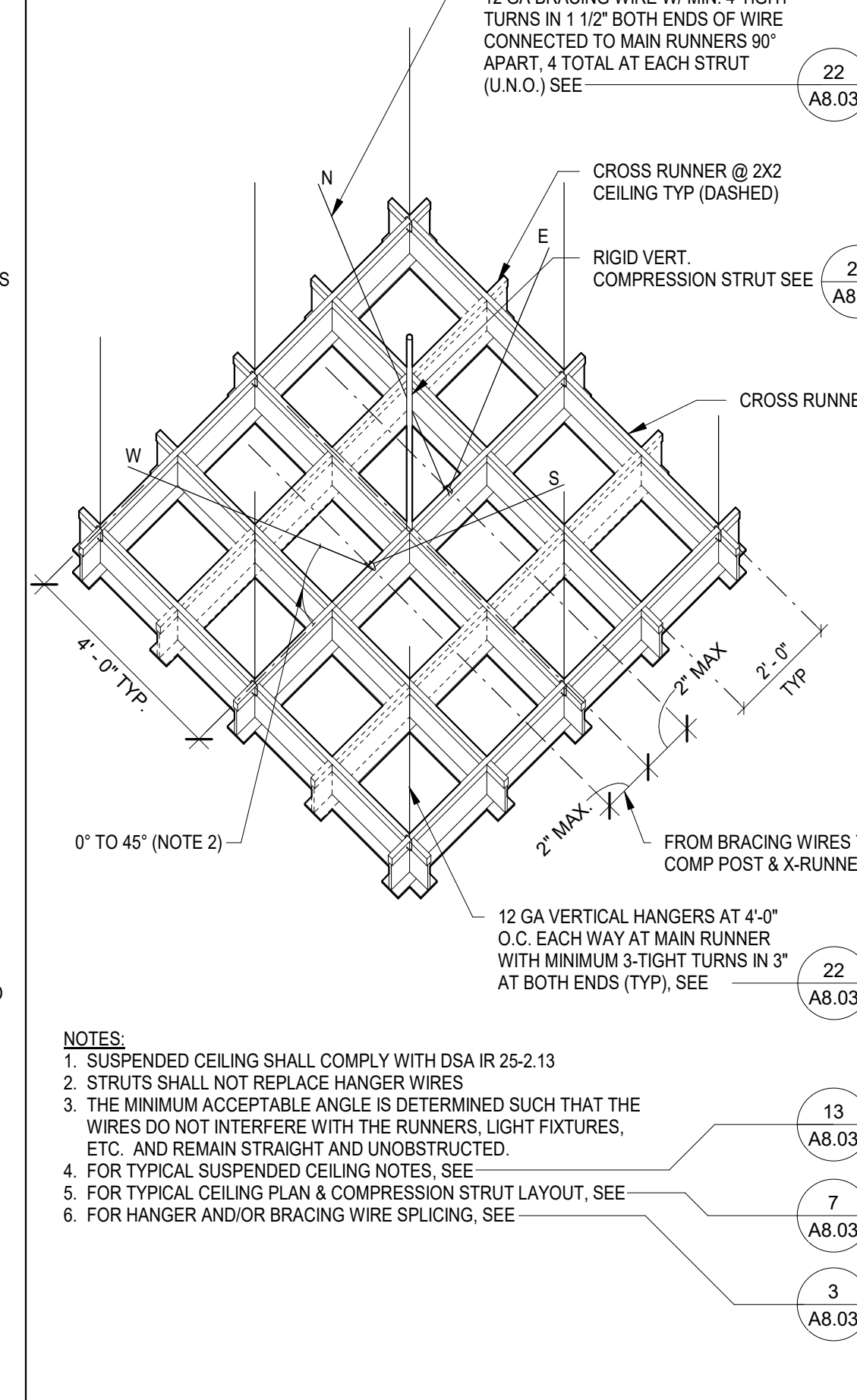
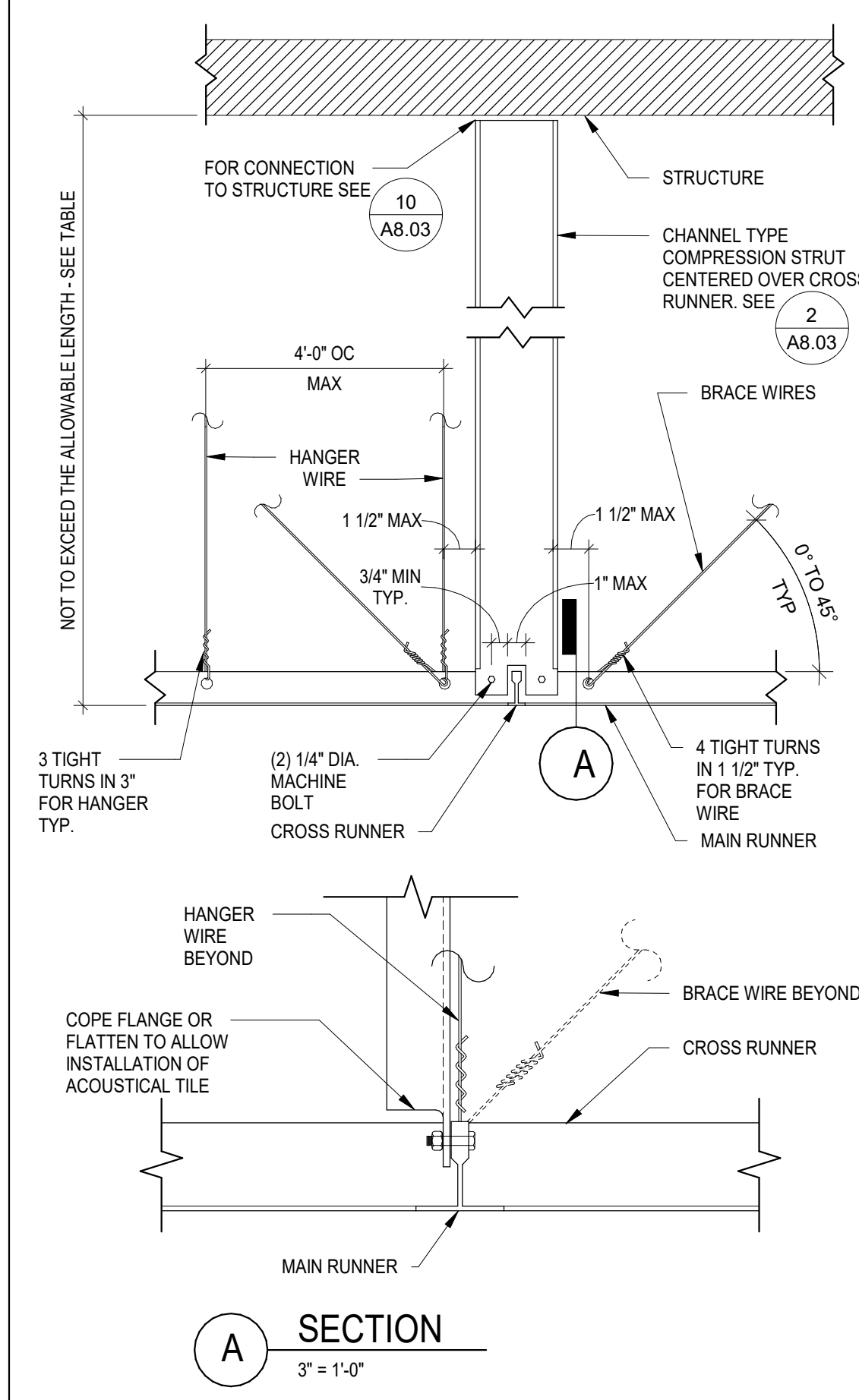
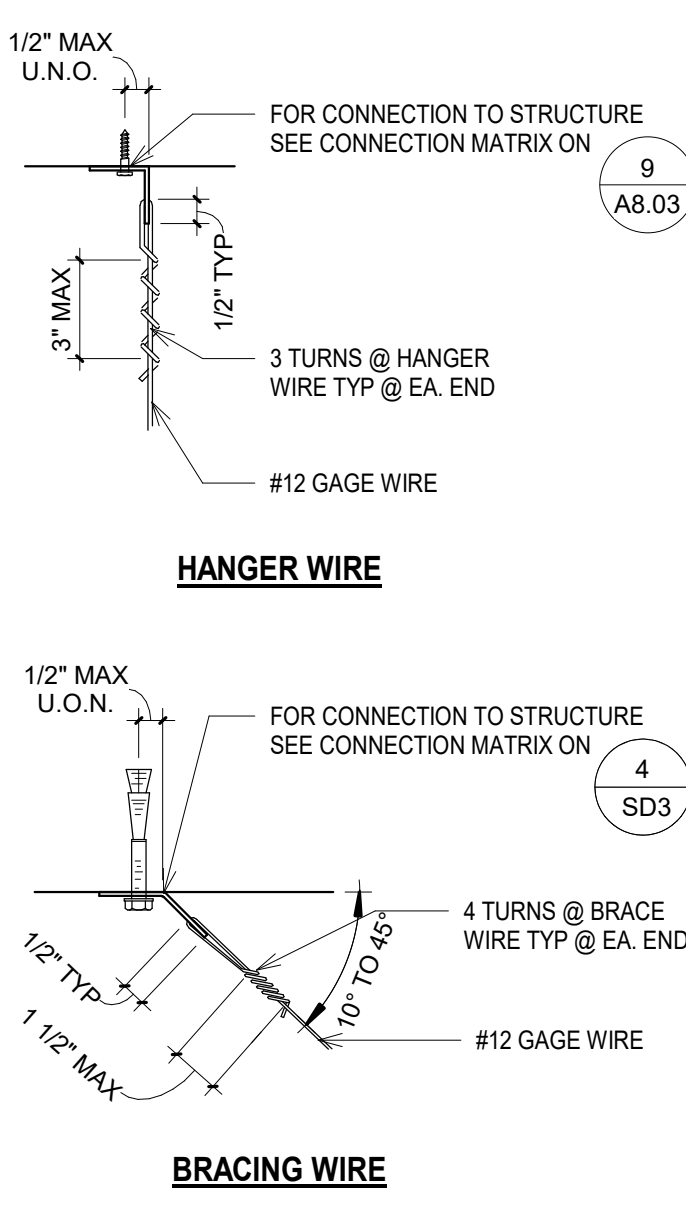
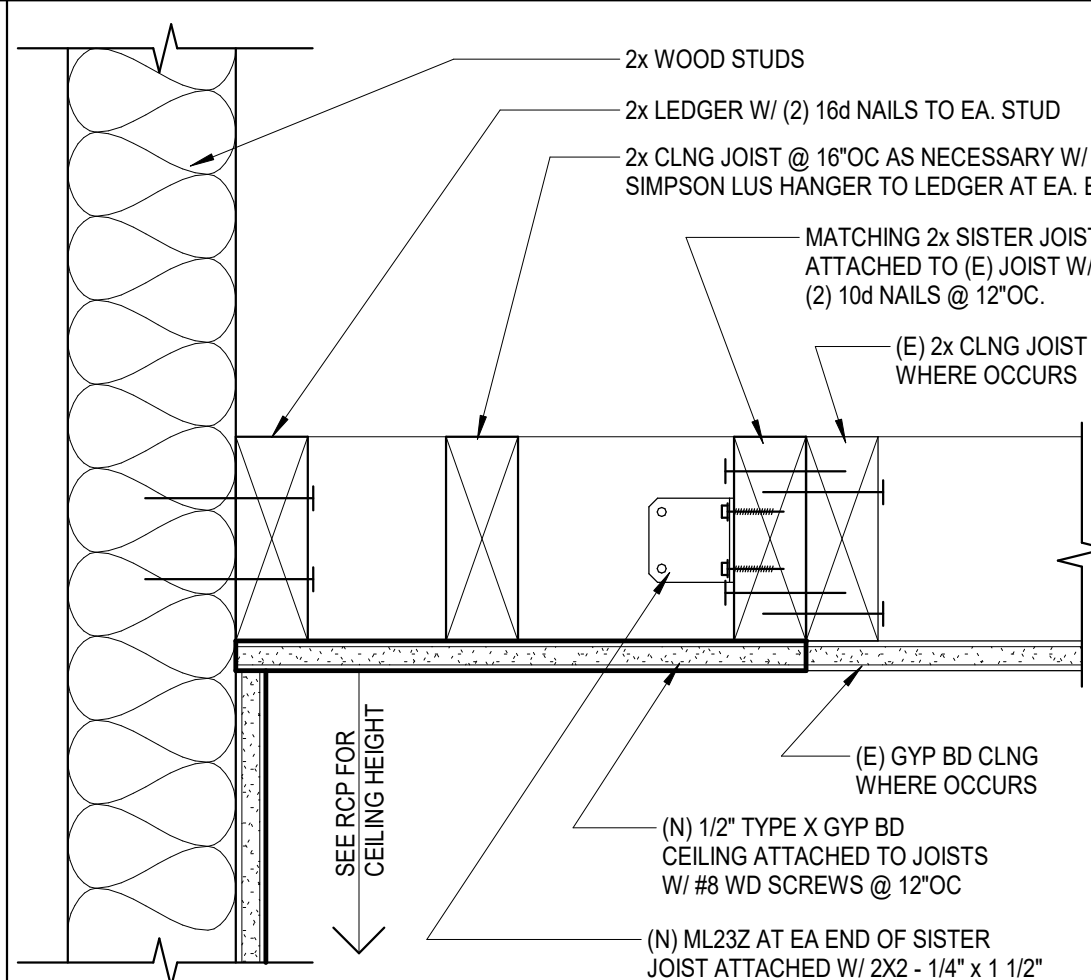
CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-29-2022	220309	
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

INTERIOR ELEVATIONS



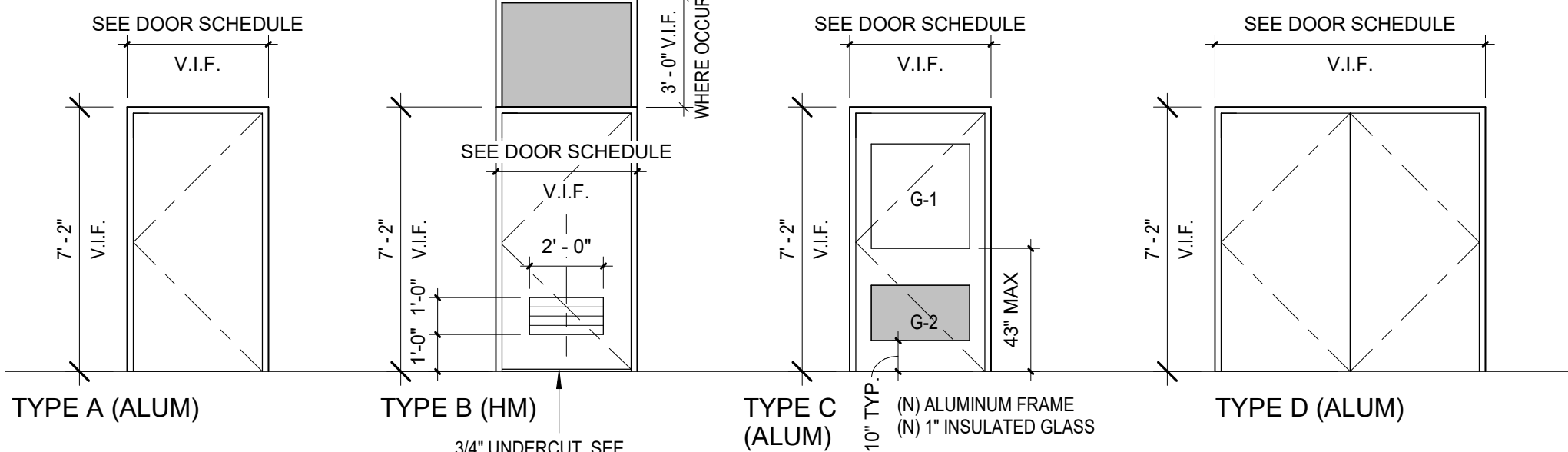




0" 1"

DOOR SCHEDULE

DOOR #	ROOM NAME	BUILDING NAME	Pair/Single	DOOR				FRAME				DETAILS				HARDWARE	Fire Rating	Panic Hardware	Security Hardware	COMMENTS
				SIZE W x H		MATL	FINISH	TYPE	MATL	FINISH	SILL	JAMB	HEAD							
				WIDTH	HEIGHT															
A1-1	CLASSROOM A1	BLDG A	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
A1-2	CLASSROOM A1	BLDG A	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
A2-1	CLASSROOM A2	BLDG A	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
A2-2	CLASSROOM A2	BLDG A	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
A3-2	CLASSROOM A3	BLDG A	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
A4-1	CLASSROOM A4	BLDG A	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
A4-2	CLASSROOM A4	BLDG A	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
A02-1	CLERK A02	ADMIN	SINGLE	3'-6"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	26/A8.01	9/A8.01	1			Yes	Yes	Yes	
A04-1	NURSE TOILET	ADMIN	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	HM	PTD	19/A8.01	13/A8.01	13/A8.01	2			No	No	No	
A05-1	NURSE A05	ADMIN	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	HM	PTD	19/A8.01	13/A8.01	13/A8.01	3			No	Yes	Yes	
A08-1	STAFF RR	ADMIN	SINGLE	2'-10"	7'-0"	WOOD	PTD	A	HM	PTD	19/A8.01	13/A8.01	13/A8.01	2			No	No	No	
B1-1	CLASSROOM B1	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
B1-2	CLASSROOM B1	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
B2-1	CLASSROOM B2	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
B2-2	CLASSROOM B2	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
B3-1	CLASSROOM B3	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
B3-2	CLASSROOM B3	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
B4-1	CLASSROOM B4	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
B4-2	CLASSROOM B4	BLDG B	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
C1-1	CLASSROOM C1	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
C1-2	CLASSROOM C1	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
C2-1	CLASSROOM C2	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
C2-2	CLASSROOM C2	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
C3-1	CLASSROOM C3	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
C3-2	CLASSROOM C3	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
C4-1	CLASSROOM C4	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
C4-2	CLASSROOM C4	BLDG C	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
K4-1	KINDERGARTEN K4	KINDERGARTEN	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			No	Yes	Yes	
K4-2	KINDERGARTEN K4	KINDERGARTEN	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20x26/A8.01	9/A8.01	1			Yes	Yes	Yes	
K4-3	KINDERGARTEN K4	KINDERGARTEN	SINGLE	3'-0"	7'-0"	WOOD	PTD	A	ALUM	PTD	7/A8.01	20/A8.01	9/A8.01	1			Yes	Yes	Yes	

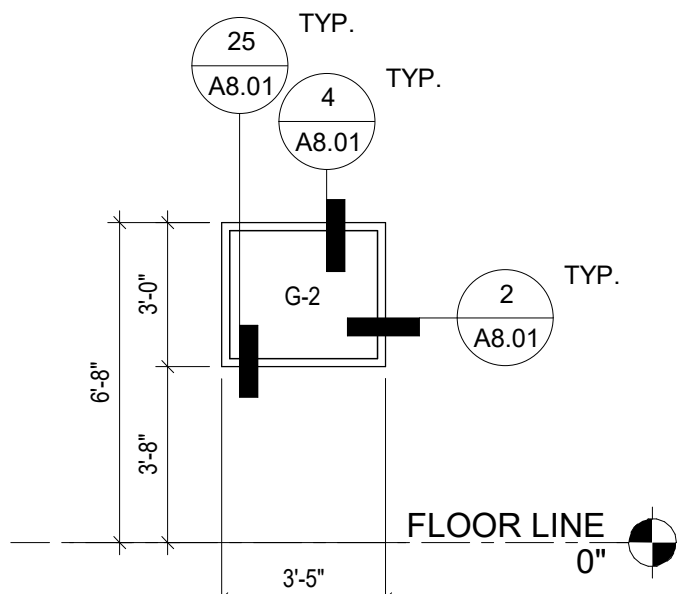


NOTE:
G-1 = 1G (TEMPERED GLASS)
G-2 = 2G/1INT (TEMPERED GLASS/TINTED GLASS)
REFERENCE SCHEDULE ABBREVIATIONS
GLASS COLOR TO BE VERIFIED BY THE DISTRICT

DOOR TYPE LEGEND
1/4" = 1'-0"

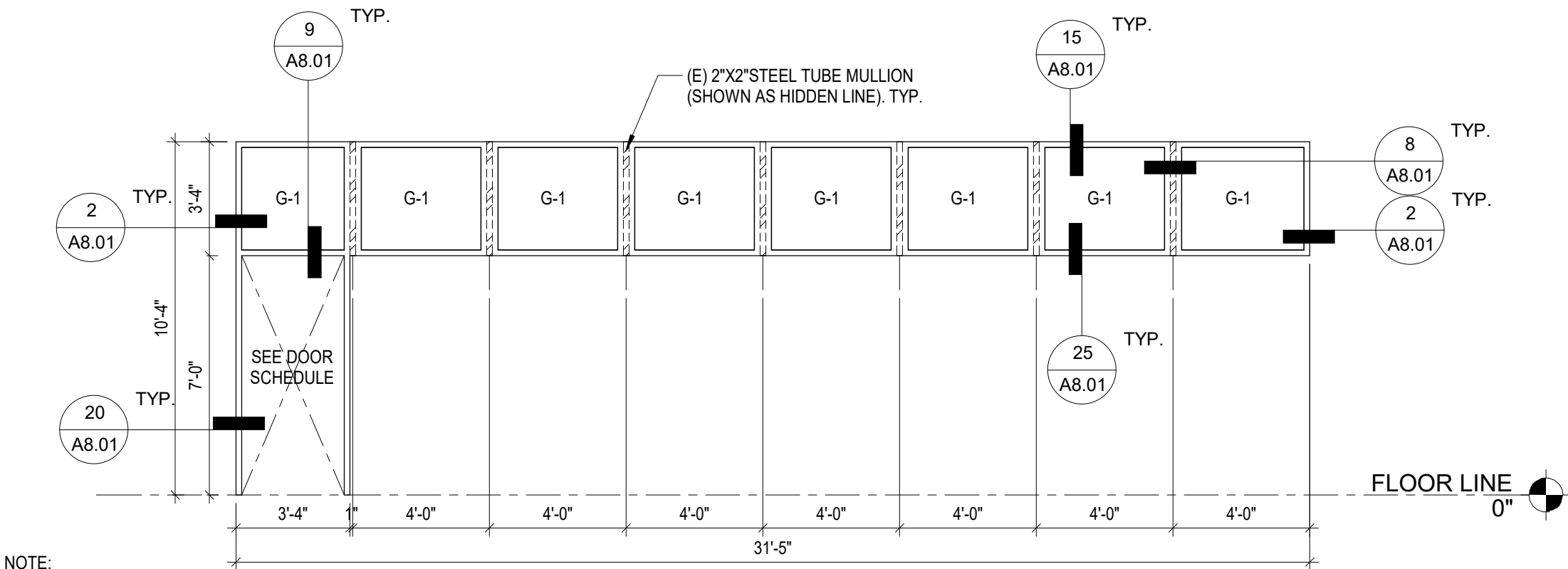
DOOR & WINDOW SCHEDULE ABBREVIATIONS

ALUM ALUMINUM
FF FACTORY FINISH
HM HOLLOW METAL
N/A NOT APPLICABLE
P PAINT
ST STAIN
WD WOOD



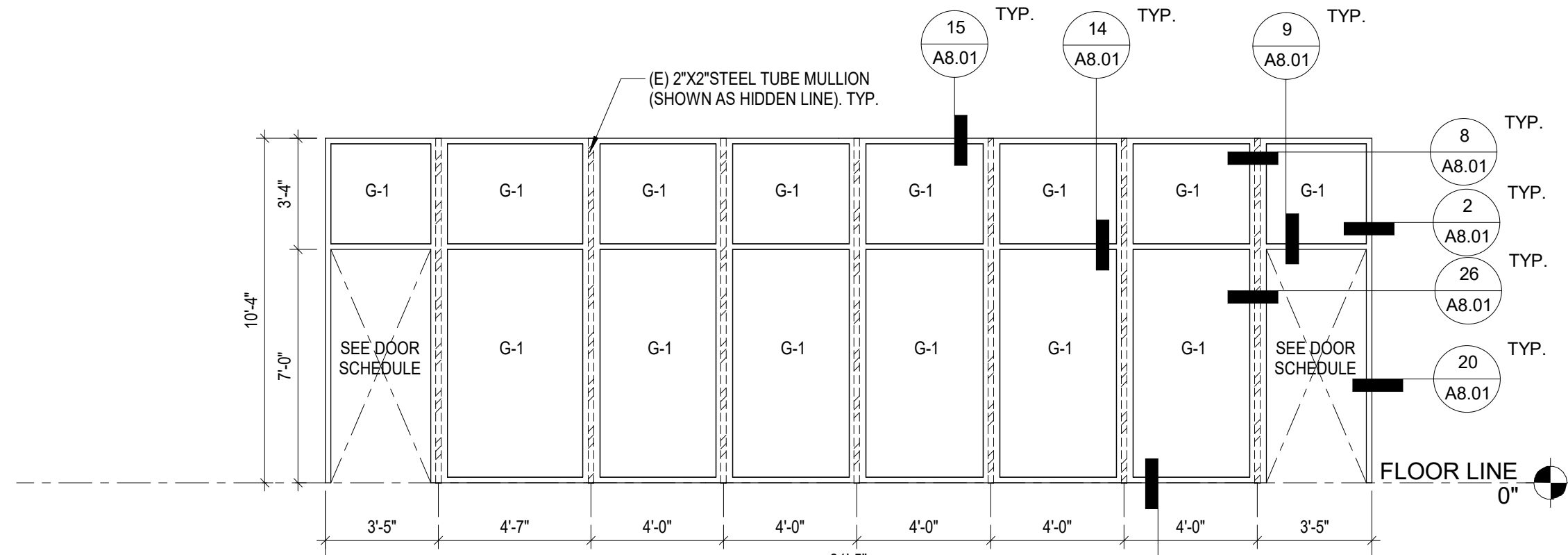
NOTE:
1. (N) ALUMINUM FRAME
2. G-2: PRIVACY GLASS (N) 1" INSULATED FROSTED GLASS.
SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

13 WINDOW FRAMING ELEVATION - W6
1/4" = 1'-0"



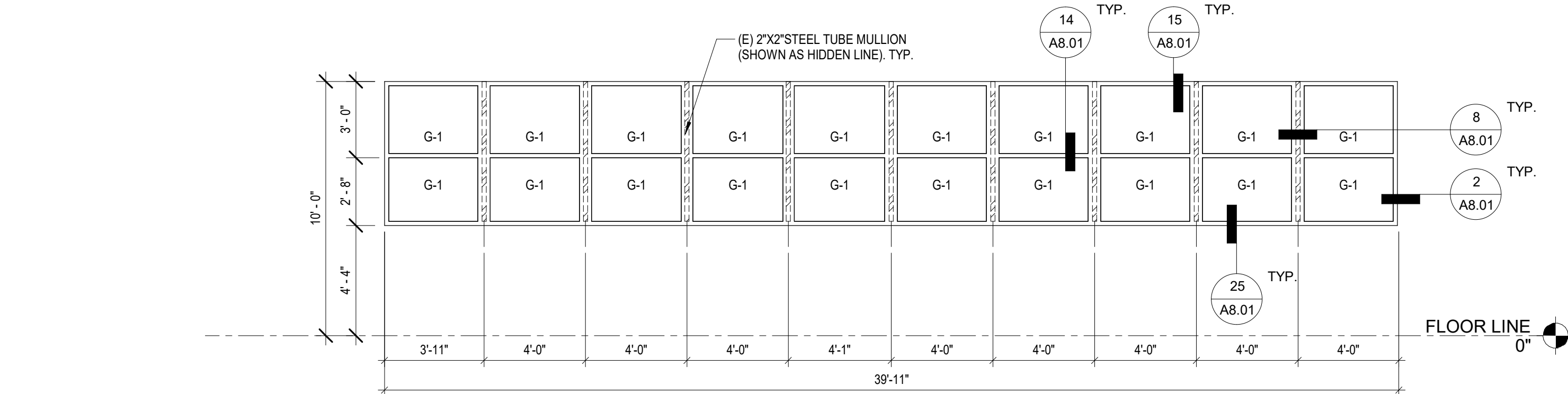
NOTE:
1. (N) ALUMINUM FRAME
2. G-1: TEMPERED GLASS (N) 1" INSULATED GLASS.
SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

12 WINDOW FRAMING ELEVATION - W5
1/4" = 1'-0"



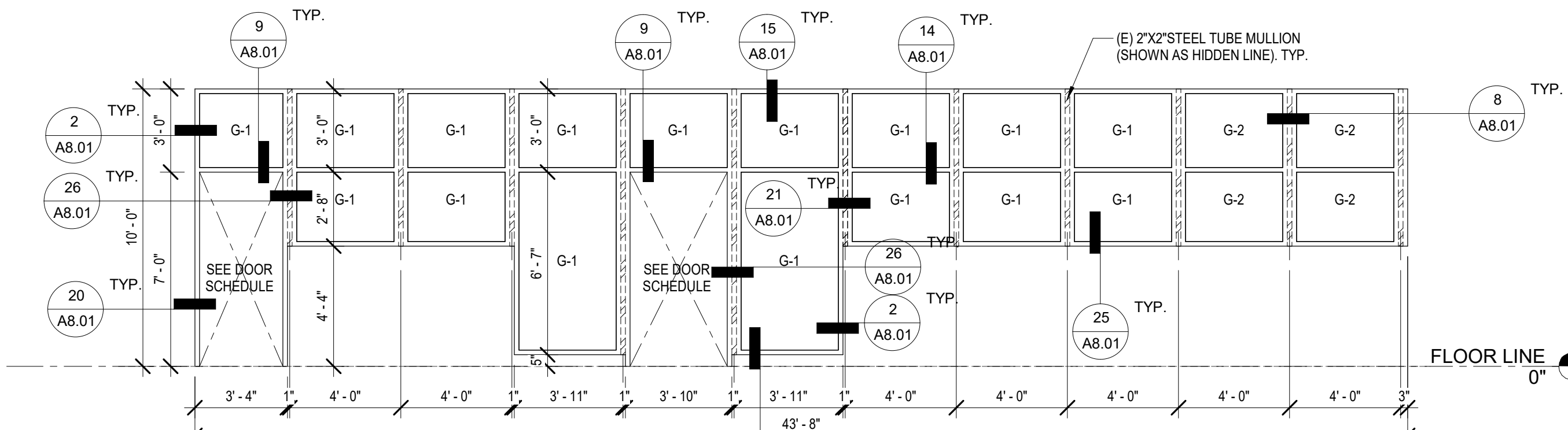
NOTE:
1. (N) ALUMINUM FRAME
2. G-1: TEMPERED GLASS (N) 1" INSULATED GLASS.
SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

10 WINDOW FRAMING ELEVATION - W4
1/4" = 1'-0"



NOTE:
1. (N) ALUMINUM FRAME
2. G-1: TEMPERED GLASS (N) 1" INSULATED GLASS.
SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

6 WINDOW FRAMING ELEVATION - W2
1/4" = 1'-0"



NOTE:
1. (N) ALUMINUM FRAME
2. G-1: TEMPERED GLASS (N) 1" INSULATED GLASS.
G-2: PRIVACY GLASS (N) 1" INSULATED FROSTED GLASS.
SEE GLAZING SPECS.
3. USE BRONZE GLAZING COLOR
4. FIELD VERIFY ALL DIMENSIONS

3 WINDOW FRAMING ELEVATION - W1
1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK

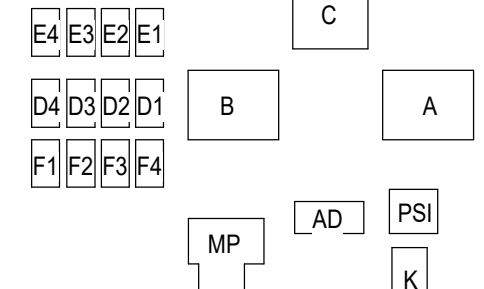
ARCHITECT PBK Architects, Inc.
2400 E. Katella Ave. #950
Anaheim, CA 92806
P 949-548-5000

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO. 04-121818 DSA FILE NO. 30-43



KEY PLAN
NORTH: PLAN

Consultant



REVISIONS		
No.	Description	Date

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DOORS SCHEDULE & WINDOWS FRAMING ELEVATION

A9.01



FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	(E) FLOOR MATERIAL	FLOOR		BASE	NORTH WALL		EAST WALL	SOUTH WALL		WEST WALL	CEILING	
			MATERIAL	FINISH		MATERIAL	FINISH		MATERIAL	FINISH		MATERIAL	FINISH
A1	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) GYP	P1 / TS1	(E) GYP	TS1	(E) BRICK	TS1	ACP
A2	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) GYP	TS1	(E) GYP	TS1	(E) BRICK	P1	ACP
A3	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) GYP	P1 / TS1	(E) BRICK	TS1	(E) GYP	TS1	ACP
A4	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) GYP	TS1	(E) BRICK	P1	(E) GYP	TS1	ACP
A6	BOYS RR	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP
A8	GIRLS RR	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP
AD1	PRINCIPAL	CPT	(E)	(E)	RB	RB1	(E) BRICK	P1	(E) BRICK	P3	(E) GYP	P1	ACP
AD2	CLERK	VCT	(E)	(E)	RB	RB1	(E) GYP	P1	(E) BRICK	P3	(E) BRICK	P1	ACP
AD3	SUPPLIES BOOKS	CPT	(E)	(E)	RB	RB1	(E) GYP	P1	(E) BRICK	P3	(E) GYP	P1	ACP
AD4	NURSE TOILET	CT	CT	CT1	CT	CT1	CT	CT1	CT	CT1	CT	CT1	GYP
AD5	NURSE'S ROOM	VCT	(E)	(E)	RB	RB1	(E) / (N) GYP	P1	(E) BRICK	P1	(E) / (N) GYP	P1	ACP / GYP
AD6	PASSAGE	VCT	(E)	(E)	RB	RB1	-	-	(E) GYP	P1	(E) BRICK	P3	GYP
AD7	OFFICE	VCT	(E)	(E)	RB	RB1	(E) GYP	P1	(E) BRICK	P3	(E) GYP	P1	ACP
AD8	STAFF TOILET	CT	(E)	(E)	RB	RB1	(E) CT / GYP	(E)	(E) CT / GYP	(E)	(E) CT / BRICK	(E)	GYP
AD10	CUSTODIAL	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)
B1	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) BRICK	TS1	(E) GYP	TS1	(E) BRICK	P1	ACP
B2	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) GYP	P1 / TS1	(E) GYP	TS1	(E) BRICK	TS1	ACP
B3	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) GYP	P1	(E) BRICK	TS1	(E) BRICK	TS1	ACP
B4	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) BRICK	TS1	(E) GYP	P1	(E) BRICK	TS1	ACP
B6	BOYS RR	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP
B7	GIRLS RR	CT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	GYP
C1	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) GYP	P1 / TS1	(E) GYP	TS1	(E) BRICK	TS1	ACP
C2	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) BRICK	TS1	(E) GYP	TS1	(E) BRICK	P1	ACP
C3	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) GYP	P1 / TS1	(E) BRICK	P1	(E) GYP	TS1	ACP
C4	CLASSROOM	CPT	CPT	CP11	RB	RB1	(E) BRICK	TS1	(E) GYP	P1 / TS1	(E) GYP	TS1	ACP
K1	WORK ROOM	VCT	VCT	VC11	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	ACP
K3	KG TOILET	CT	(E)	(E)	(E)	(E)	CT	CT1	CT	CT1	CT	CT1	GYP
K4	KINDERGARTEN ROOM	VCT / CPT	VCT / CPT	VCT1 / CPT1	RB	RB1	(E) BRICK	P1 / TS1	(E) GYP	P1 / TS1	(E) BRICK	P1	ACP

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.
- PAIN'T 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.
- PAIN'T 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.
- PAIN'T 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-PAIN'T 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 CEMENT FLOAT AND APPROPRIATE BASE MATERIAL AT EXISTING BRICK WALL TO RECEIVE NEW TILE FINISH, PER FINISH SPECIFICATIONS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023



ARCHITECT
2400 E. Katella Ave. #950
Anaheim, CA 92806
P 949-548-5000

PBK Architects, Inc.
PBK.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St.
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL. NO. 04-121818 DSA FILE NO. 30-43



KEY PLAN
NORTH: PLAN

Consultant

Architect
Vong Yee
No. C-31162
REV. 10-31-2005
STATE OF CALIFORNIA

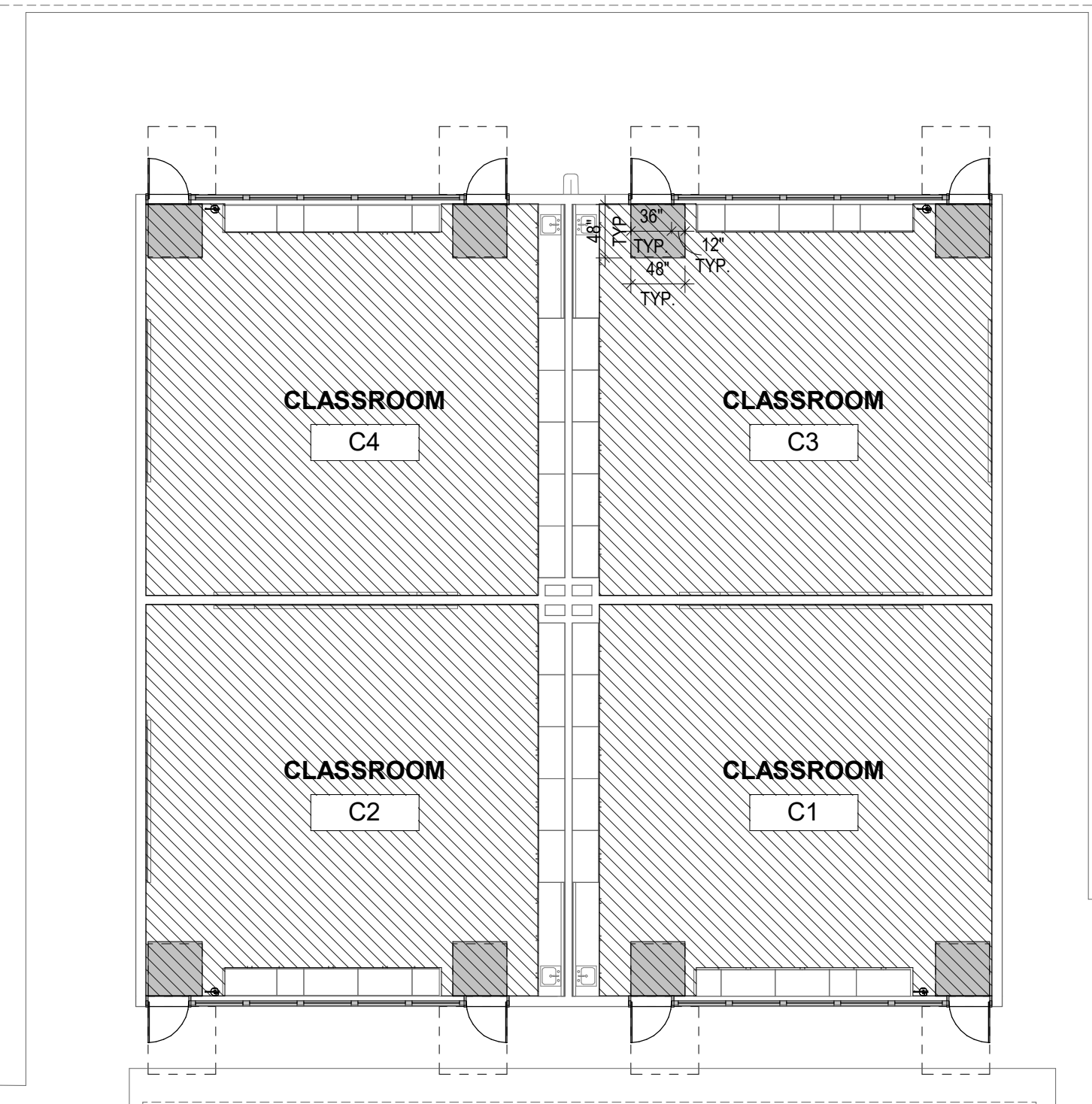
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309

REVISIONS
No. Description Date

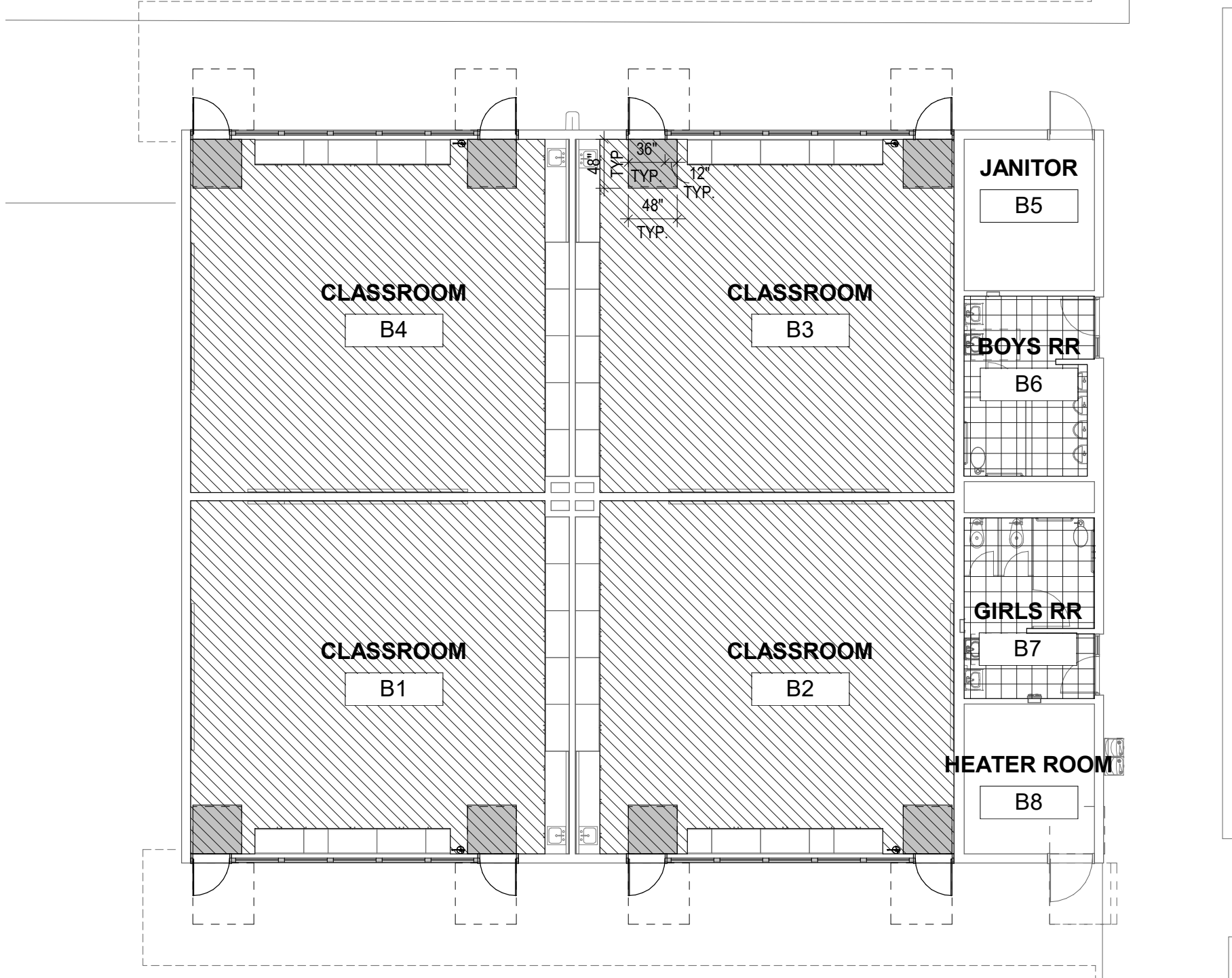
DSA SUBMITTAL

FINISH PLAN & SCHEDULES

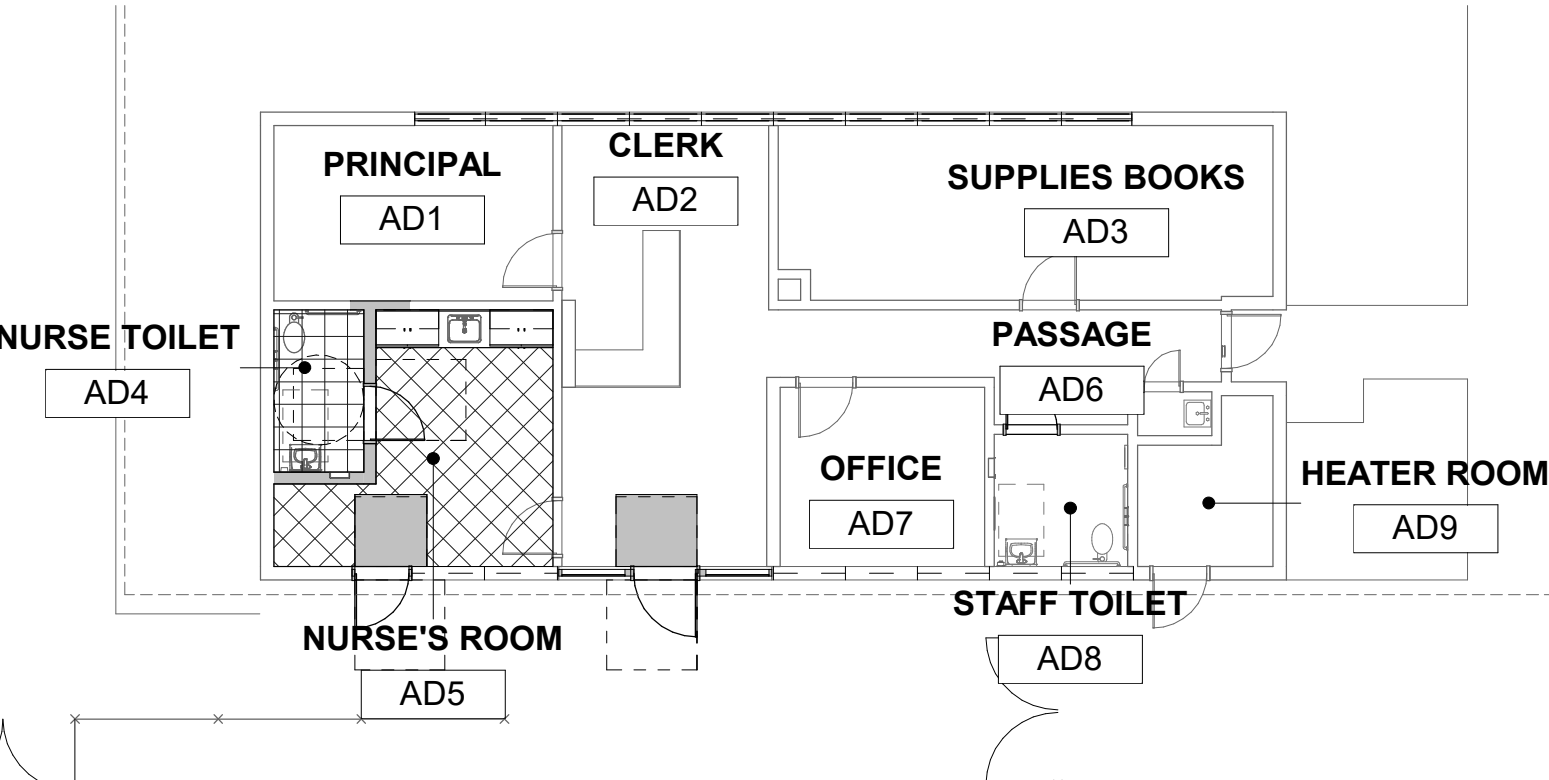
A10.01



17 FINISH FLOOR PLAN BLDG C
3/32" = 1'-0"



9 FINISH FLOOR PLAN BLDG B
3/32" = 1'-0"



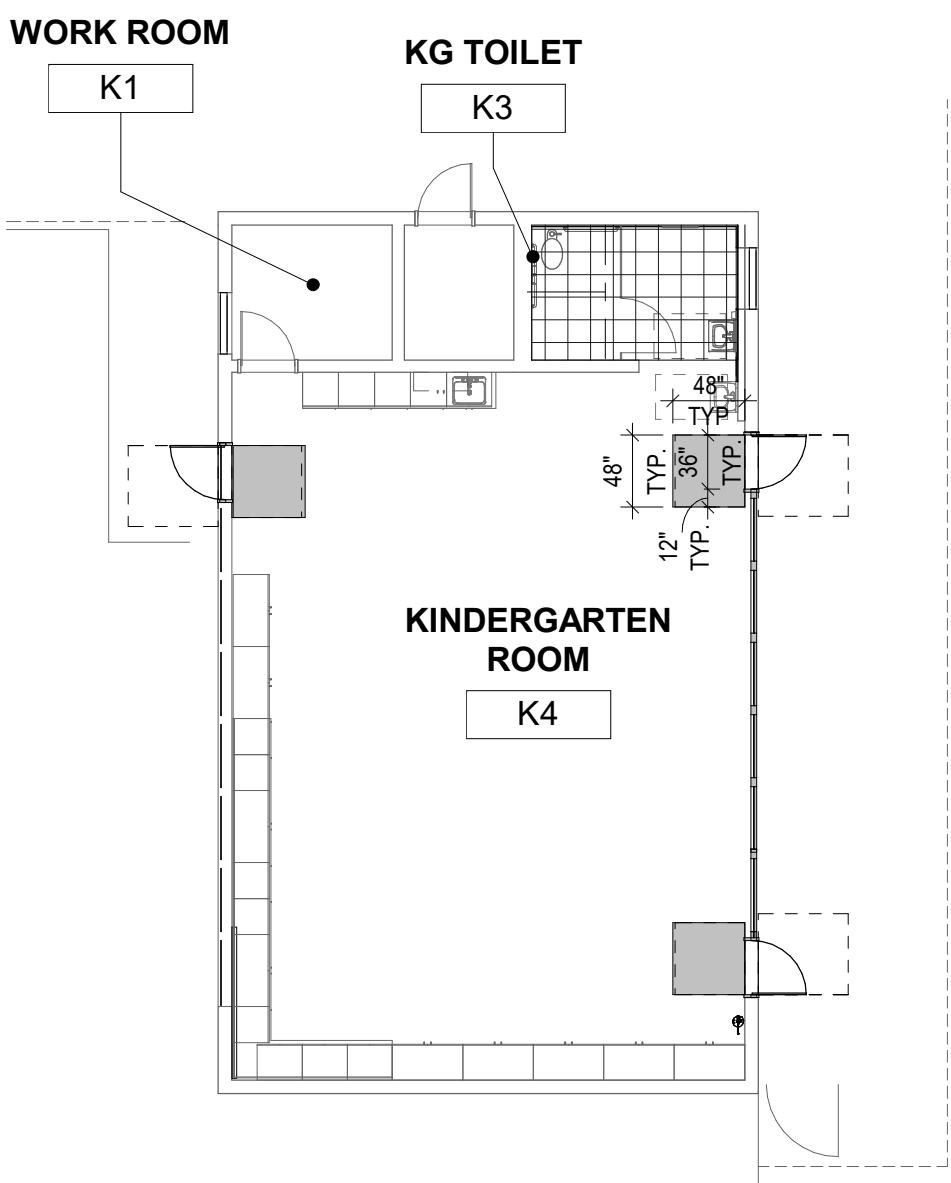
3 FINISH FLOOR PLAN BLDG ADMIN
3/32" = 1'-0"

MATERIAL FINISH ABBREVIATIONS

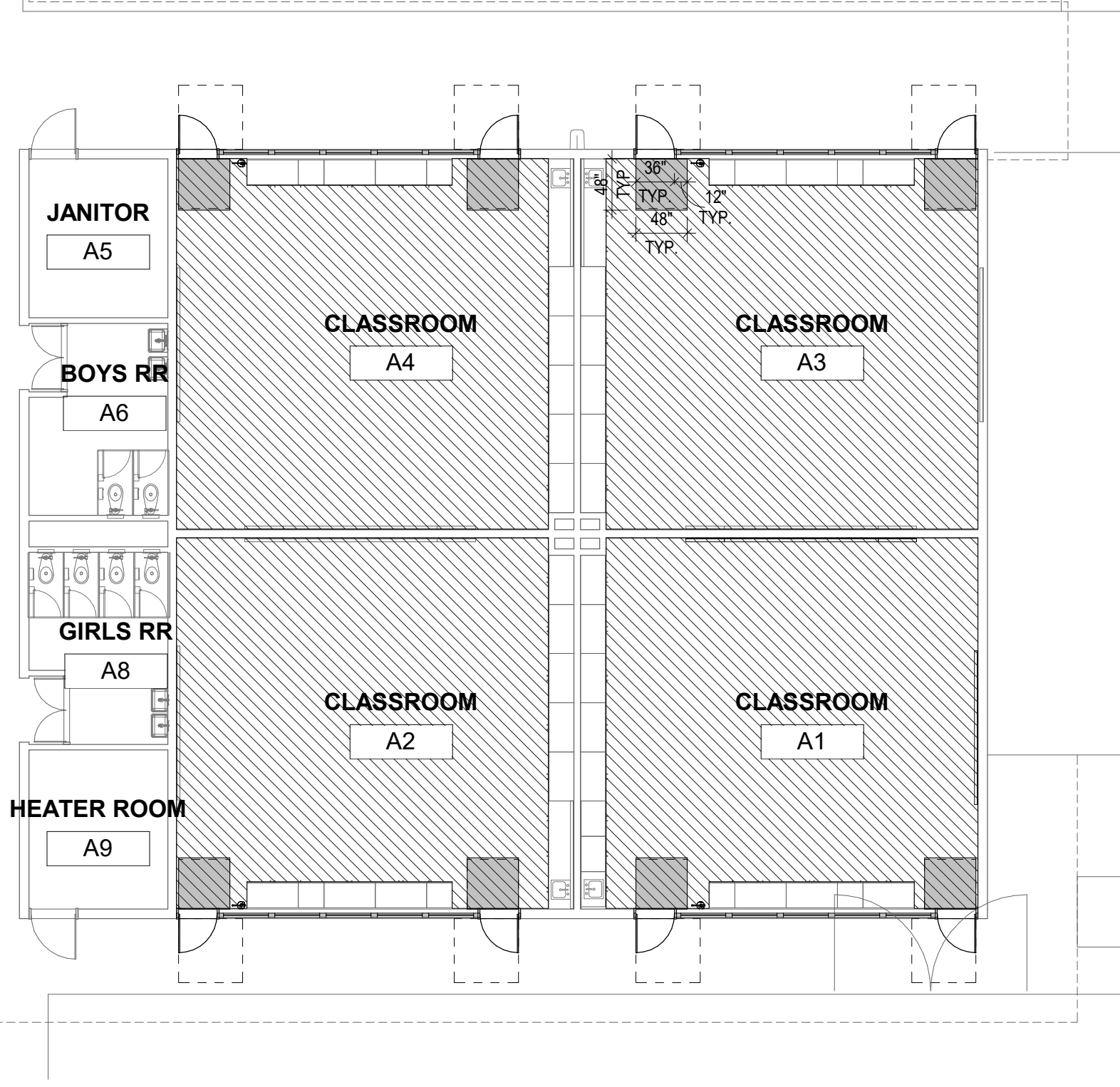
ACP1	2X2' ACOUSTICAL CEILING PANEL. SEE SPECIFICATIONS
CPT1	CARPET TYPE 1. SEE SPECIFICATIONS
CT1	CERAMIC TILE 1. SEE SPECIFICATIONS
CTB1	CERAMIC TILE BASE 1. SEE SPECIFICATIONS
VCT1	VINYL COMPOSITE TILE 1. SEE SPECIFICATIONS
P1	PAIN'T TO BE SELECTED BY OWNER. SEE SPECIFICATIONS
RB1	RUBBER BASE. SEE SPECIFICATIONS
(E)	(E) FINISH TO REMAIN
MP	MANUFACTURERS FINISH. SEE SPECIFICATIONS
TS1	TACKABLE SURFACE. SEE SPECIFICATIONS

MATERIAL ABBREVIATIONS

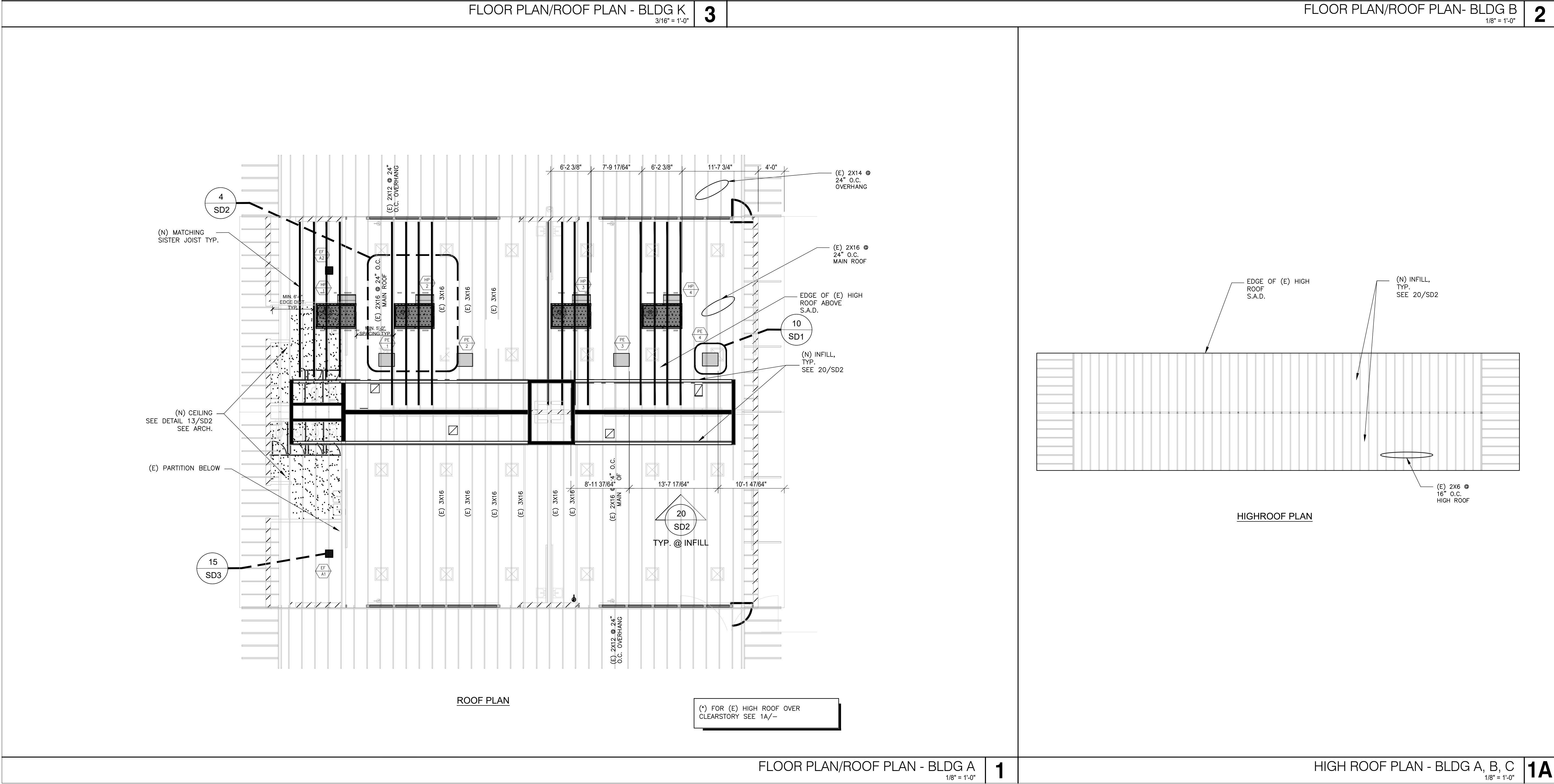
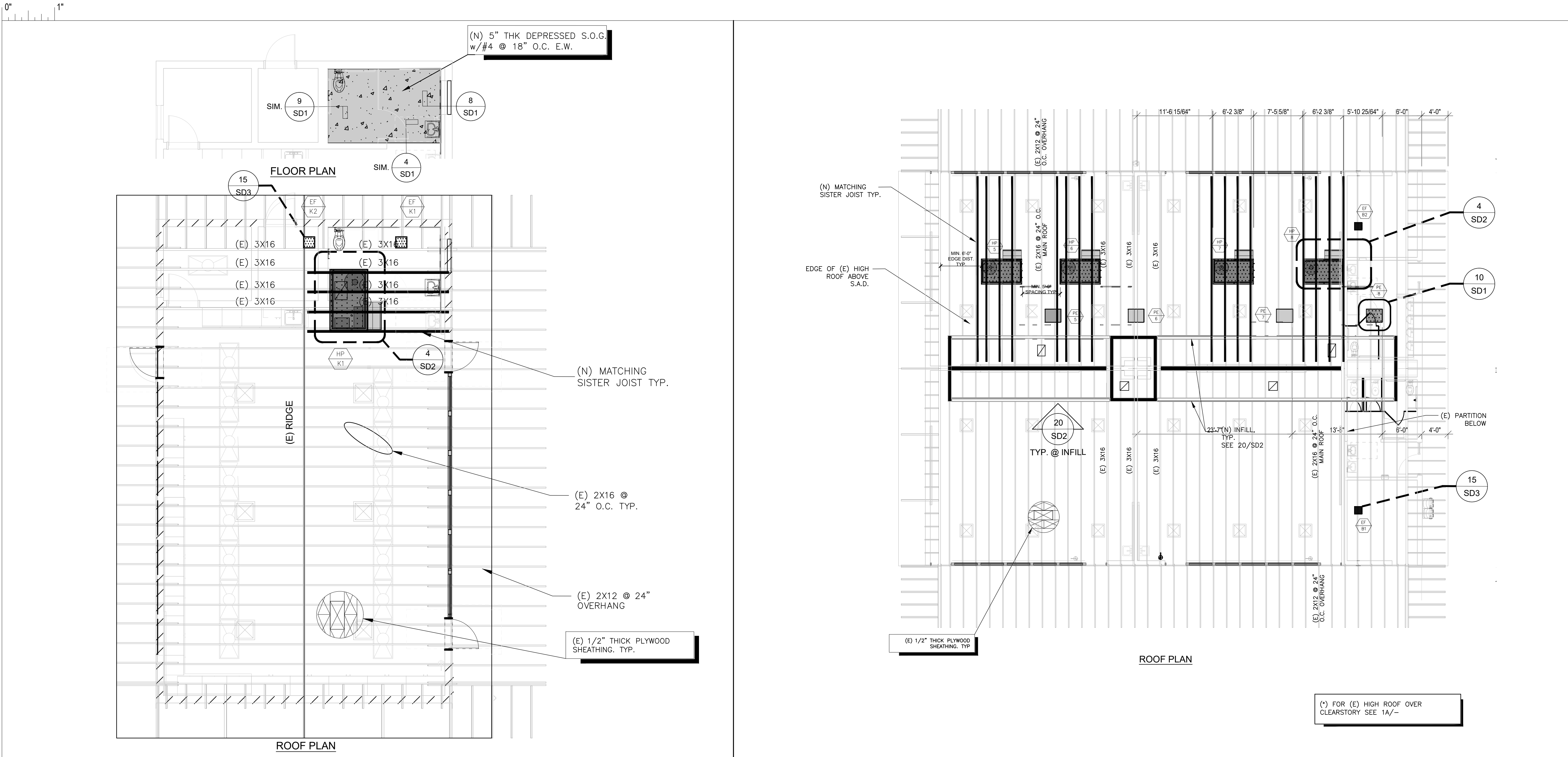
ACP	ACOUSTIC CEILING PANEL
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
GUT	GLUE UP TILE
GYP	GYP'SUM BOARD
P	PAINT
RB	RUBBER BASE
VCT	VINYL COMPOSITE TILE
(E)	(E) FINISH TO REMAIN



6 FINISH FLOOR PLAN BLDG K
3/32" = 1'-0"



5 FINISH FLOOR PLAN BLDG A
3/32" = 1'-0"



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.
- B. ALL EXISTING FRAMING MEMBERS THAT ARE BEING CUT/NOTCHED/TRIMMED SHALL BE PROPERLY SECURED BY SHORING.
- C. SIZES SPACING LOCATIONS OF ALL EXISTING STRUCTURAL ELEMENTS SHALL BE FIELD VERIFIED & ANY DISCREPANCIES BE REPORTED TO SEOR.
- 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) BEAM, 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 4/SD2
	(N) CONC. SLAB-ON-GRADE
	(N) ROOFTOP UNIT, PER PLAN, SEE 4/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.
HEAT PUMP (ON ROOF)	930	74"L x 44"W x 41"H	4/SD2
HEAT PUMP (ON ROOF)	990	74"L x 44"W x 41"H	4/SD2
EXHAUST FAN	15		
ECONOMIZER	45		10/SD1

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

(*) OVERALL WEIGHT INCLUDES THE SELF WEIGHT OF (N) RTU ONLY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

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

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

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

E4 E3 E2 E1
D4 D3 D2 D1
F1 F2 F3 F4

C
B
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MP
AD
PSI
K

KEY PLAN
NORTH: PLAN TRUE

Consultant
NE
STRUCTURAL ENGINEERING
CONSULTANTS
23 CORPORATE PLAZA DR.
SUITE 150
NEWPORT BEACH, CA 92660
NIC PROJECT NO.2226.07

Architect
Architect
Architect

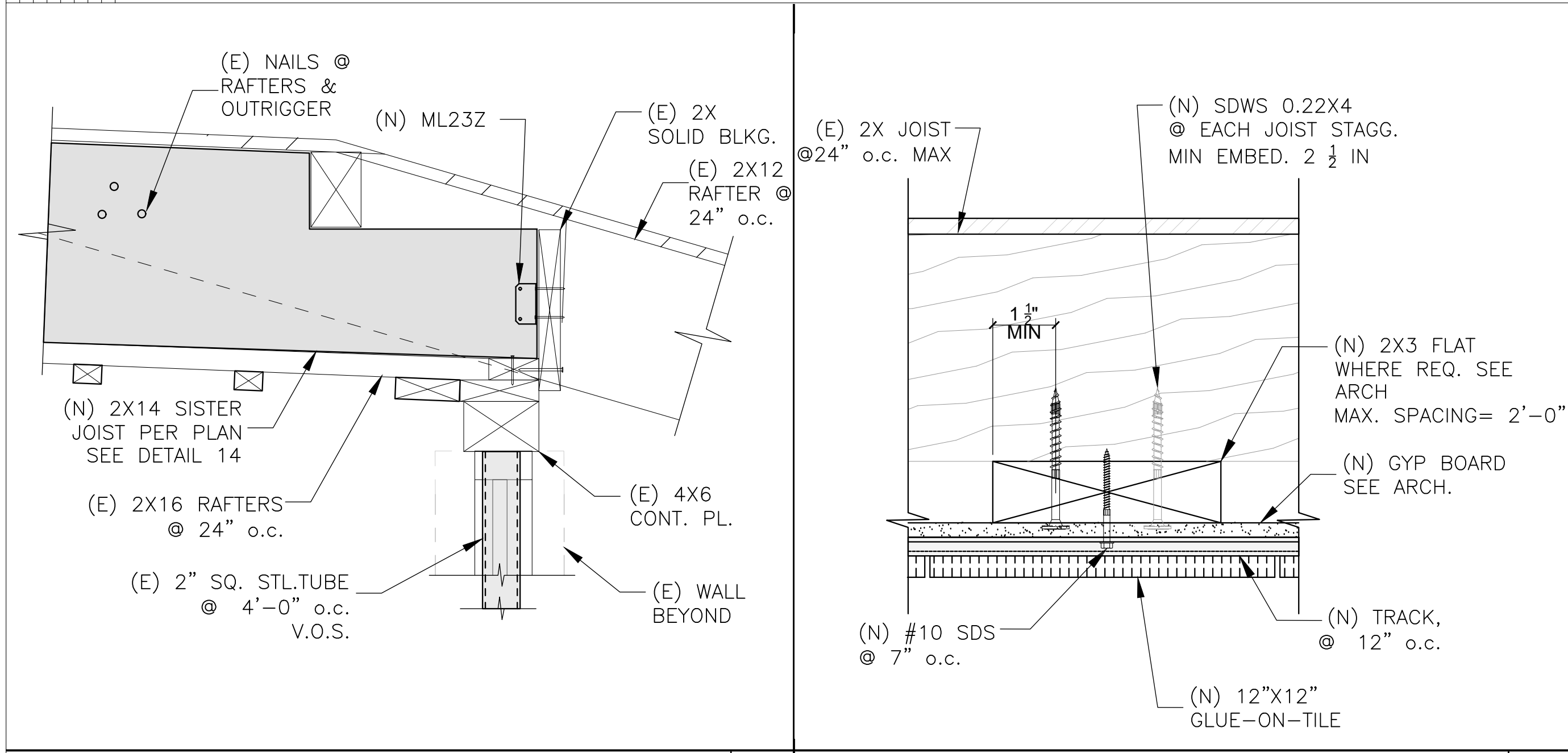
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE: PROJECT NUMBER 000000

REVISIONS
No. Description Date

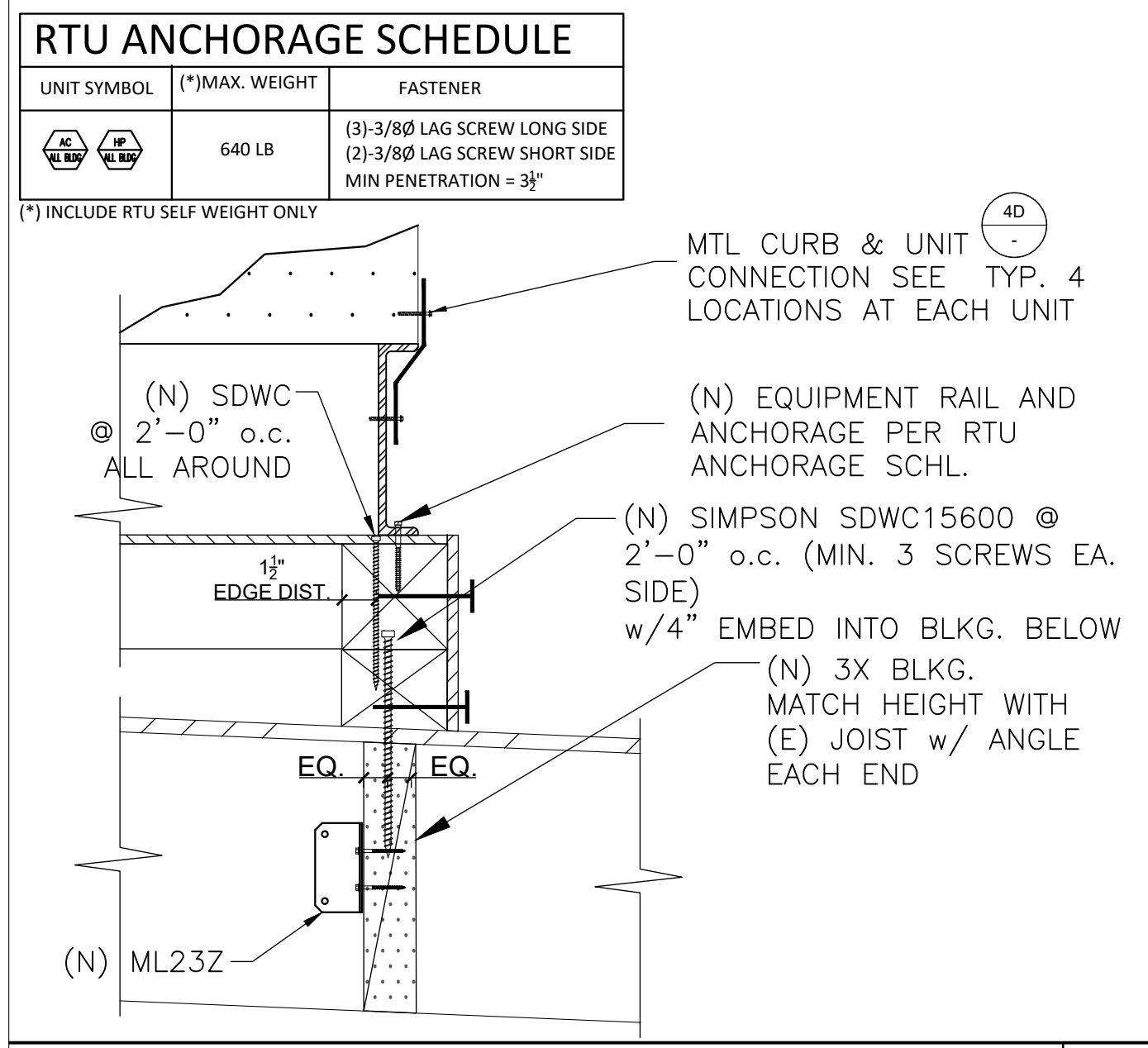
DSA SUBMITTAL

FLOOR/ROOF PLANS - BLDG A, B & K

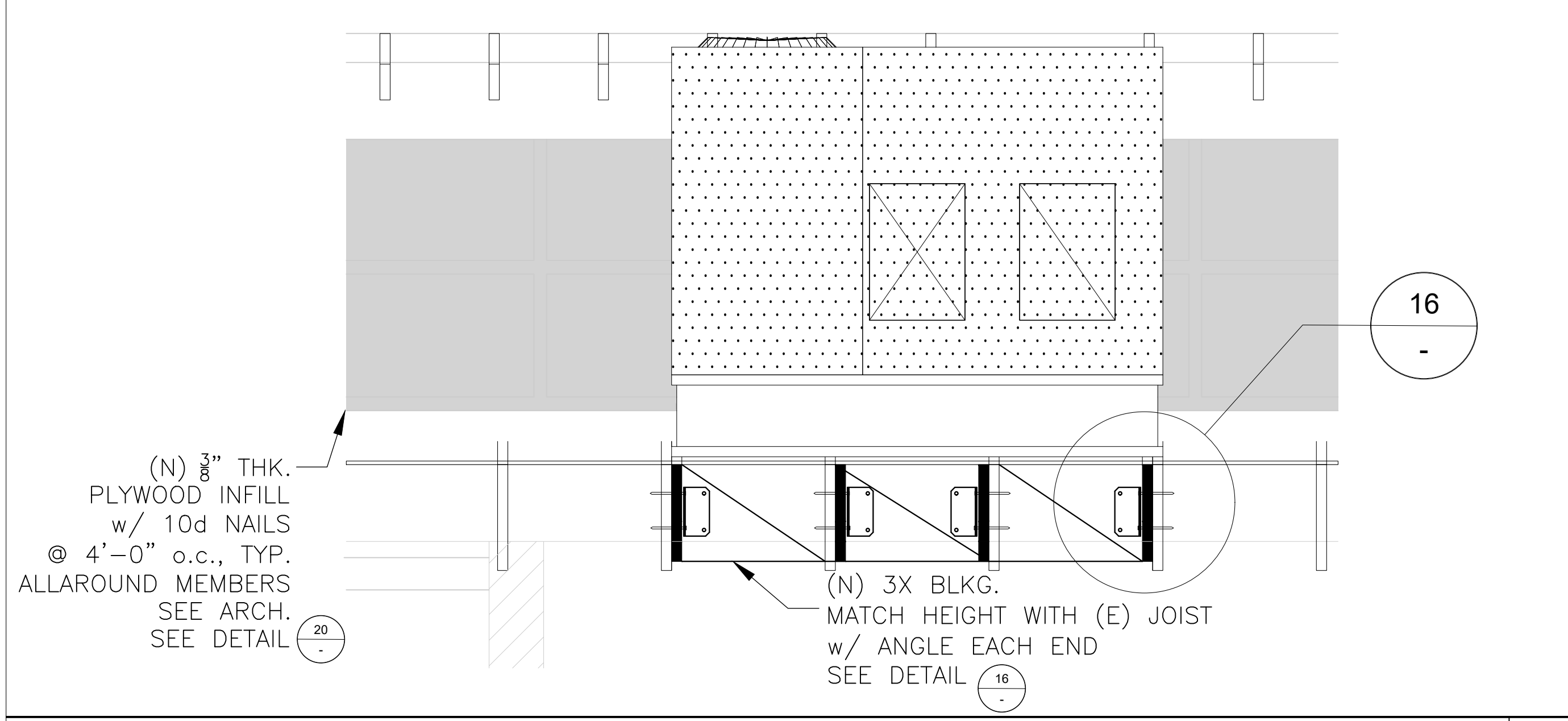
S1



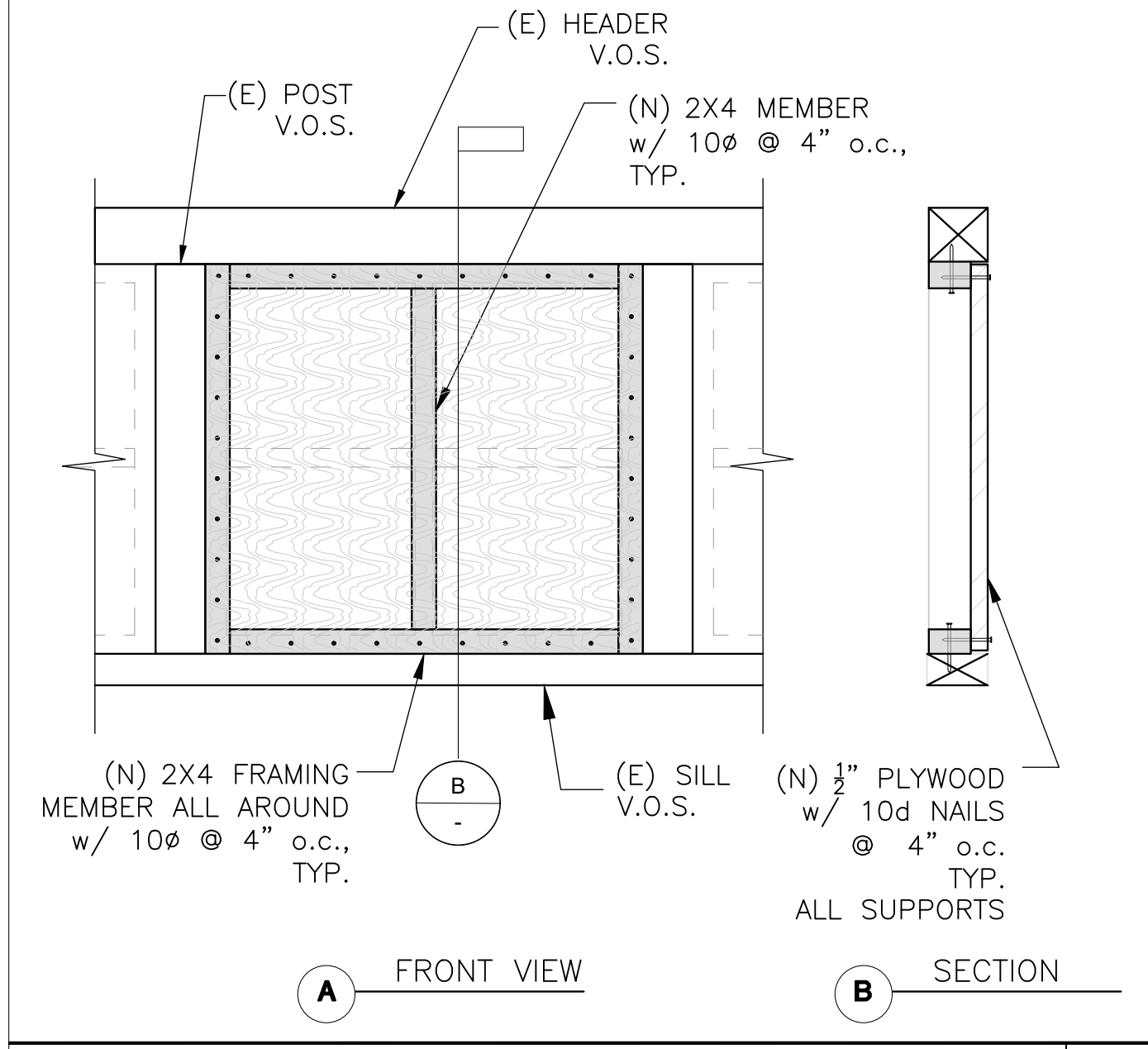
17 CEILING JOIST DETAIL 13



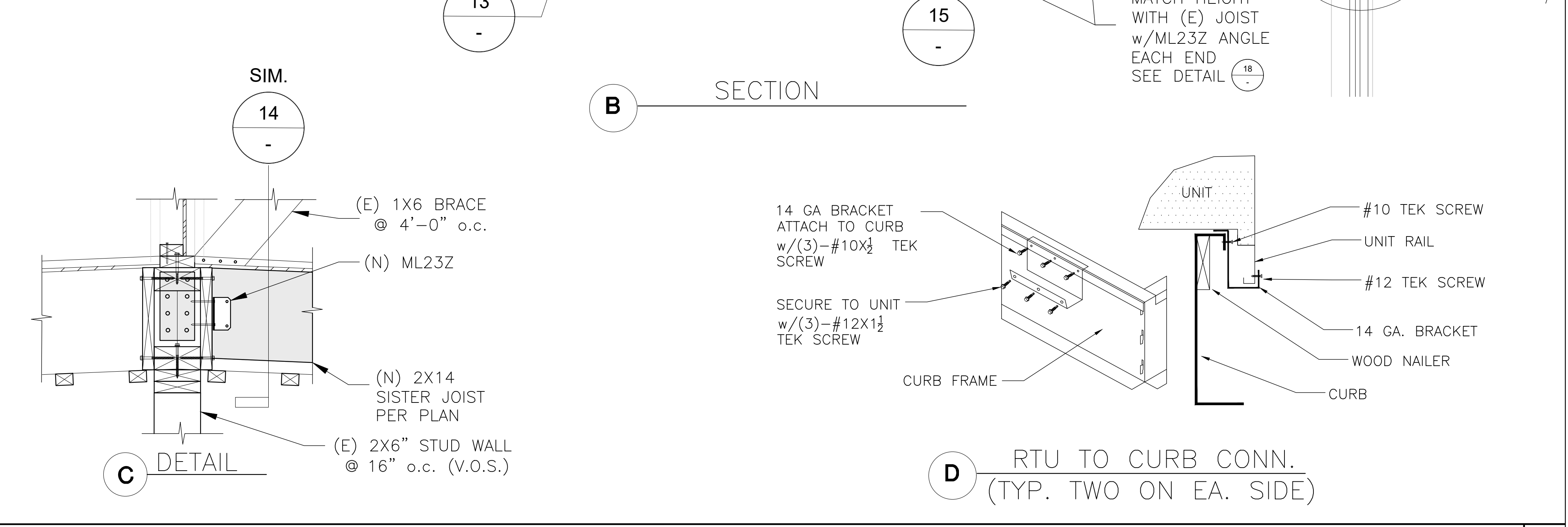
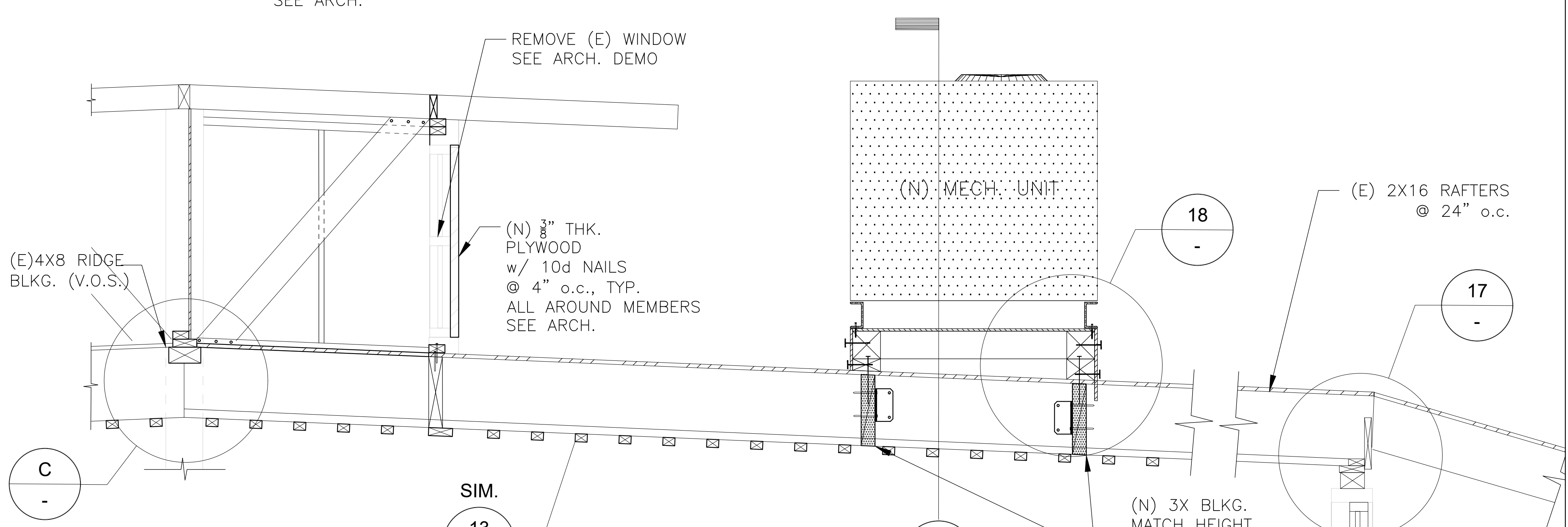
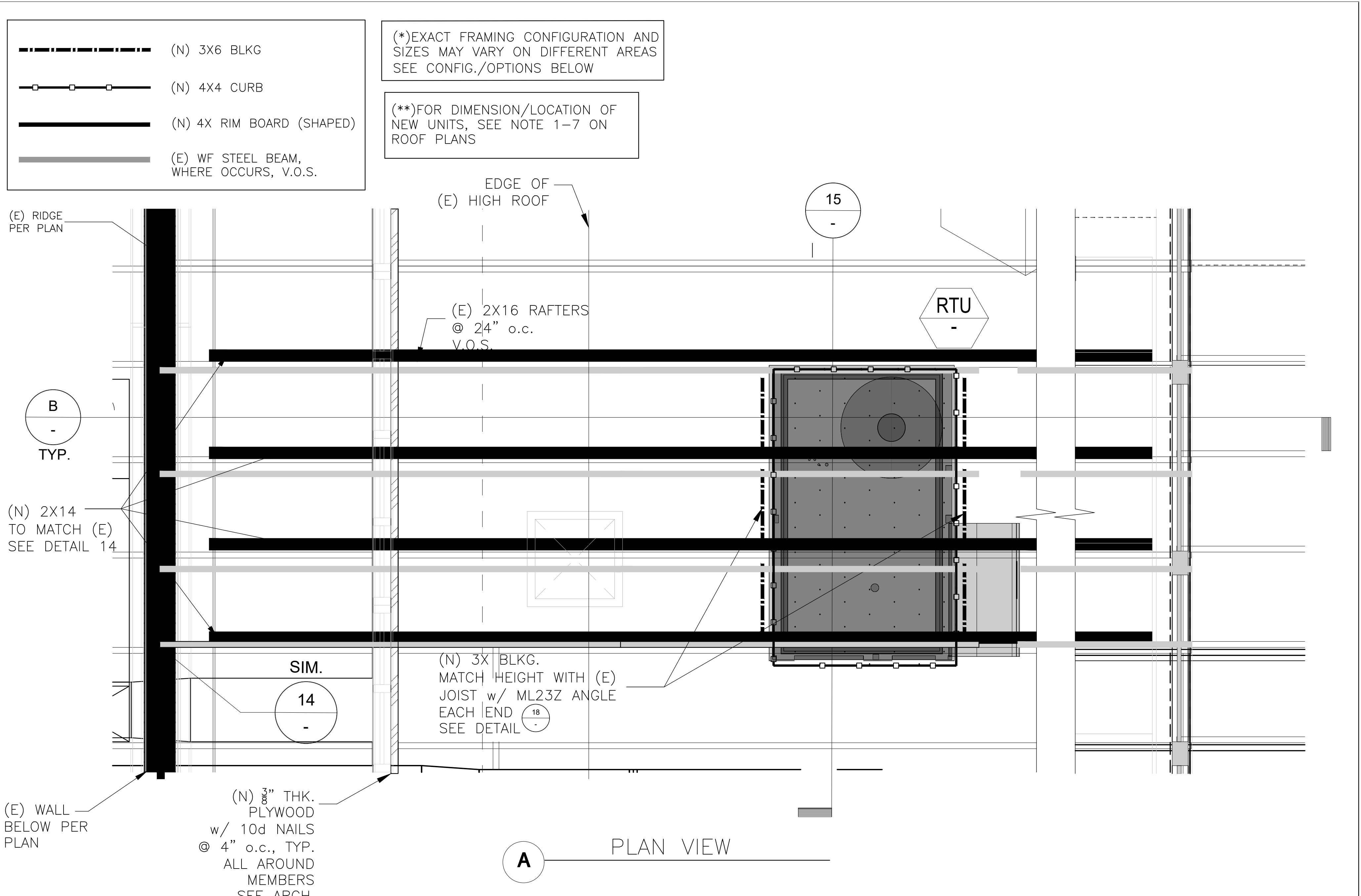
18 REINFORCED SUBPURLINE @ ROOF 14



15 SECTION 15



20 DETAIL 16



NEW MECH. UNIT @ CLASSROOM 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 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

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

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

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

KEY PLAN
NORTH PLAN TRUE
E4 E3 E2 E1
D4 D3 D2 D1
F1 F2 F3 F4
C
B
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MP
AD
PSI
K

Consultant
NE
STRUCTURAL ENGINEERING
CONSULTANTS
23 CORPORATE PLAZA DR.
SUITE 150
NEWPORT BEACH, CA 92660
NIC PROJECT NO.2226.07

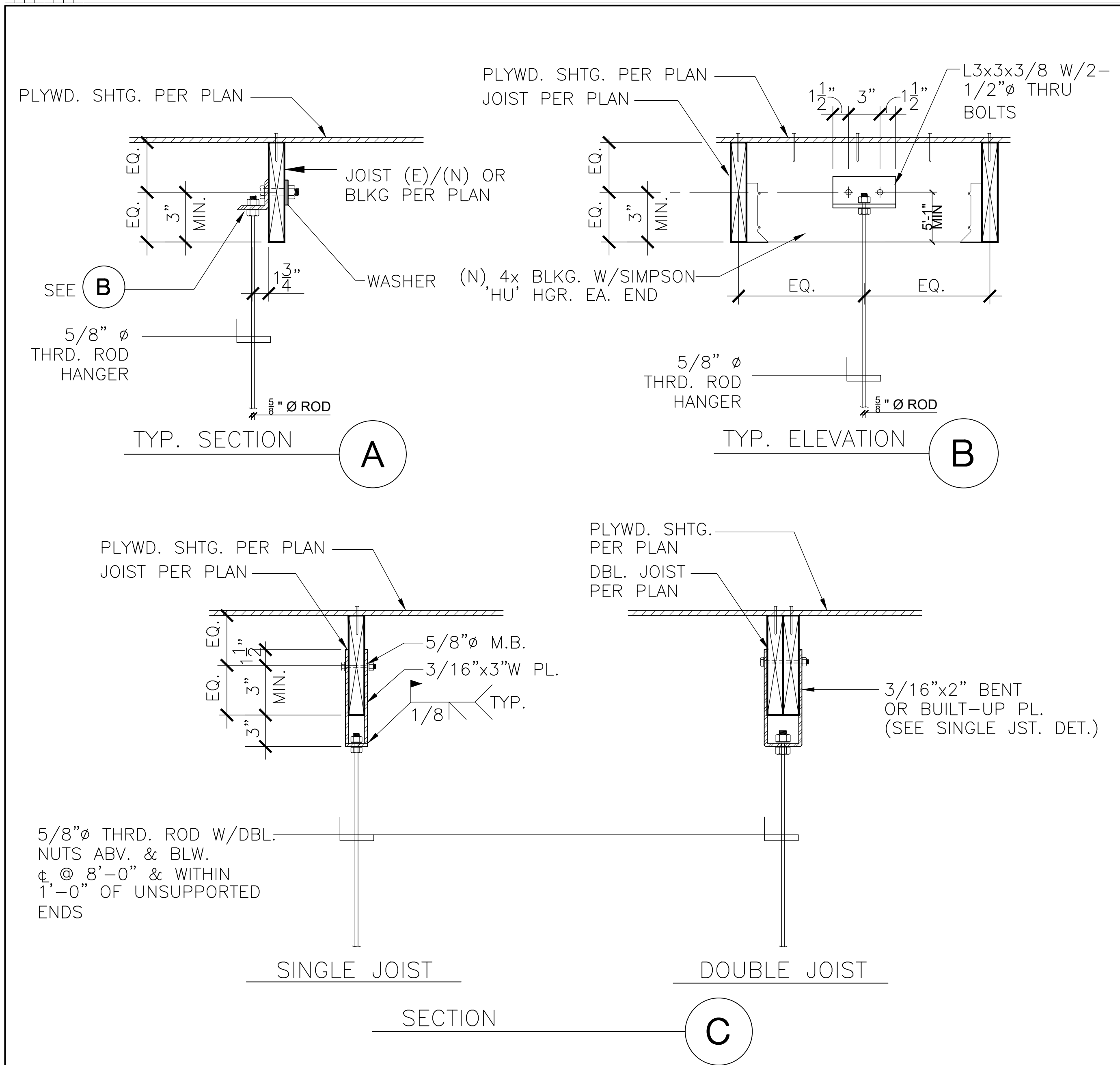
Architect
WESTMINSTER SCHOOL DISTRICT
DATE
PROJECT NUMBER
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REVISIONS
No. Description Date

DSA SUBMITTAL

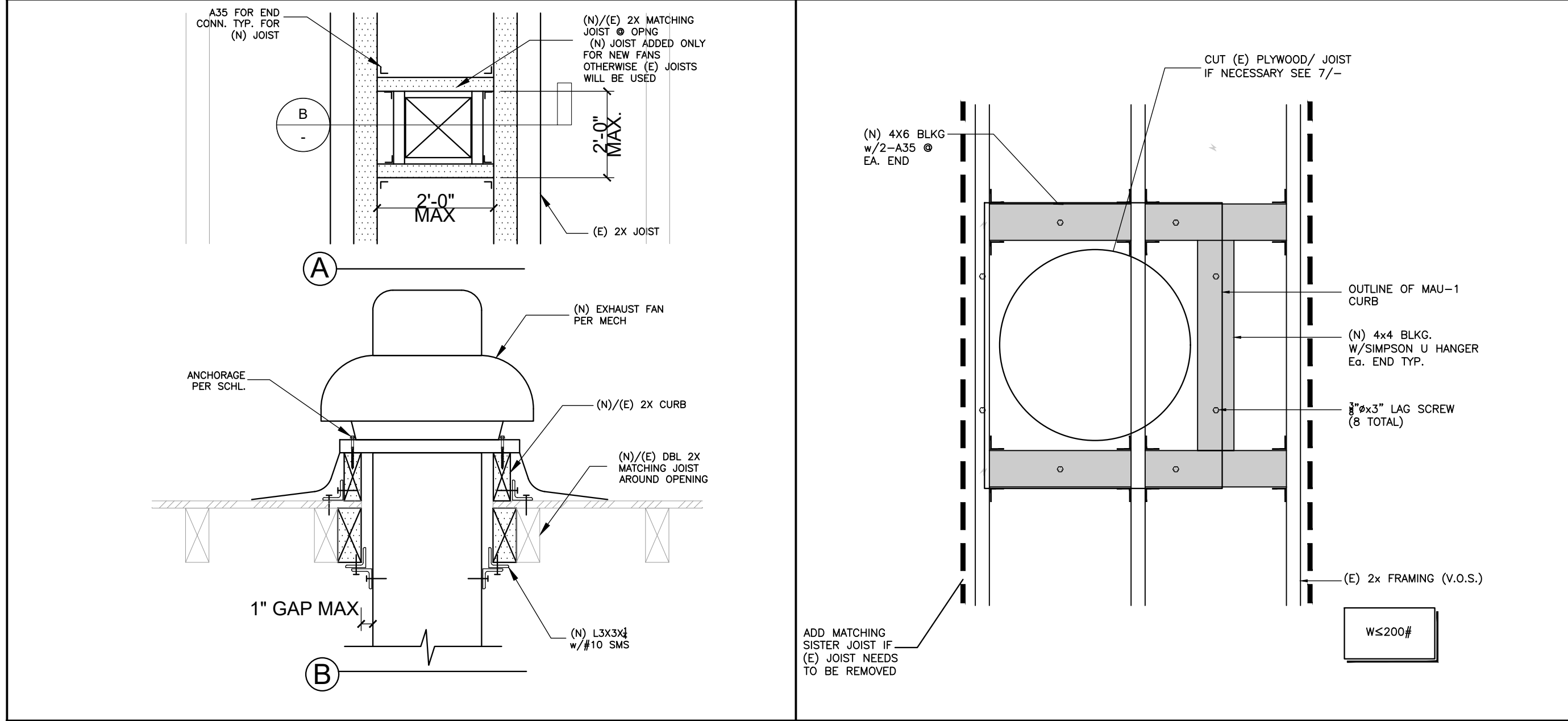
RTU DETAILS

SD2



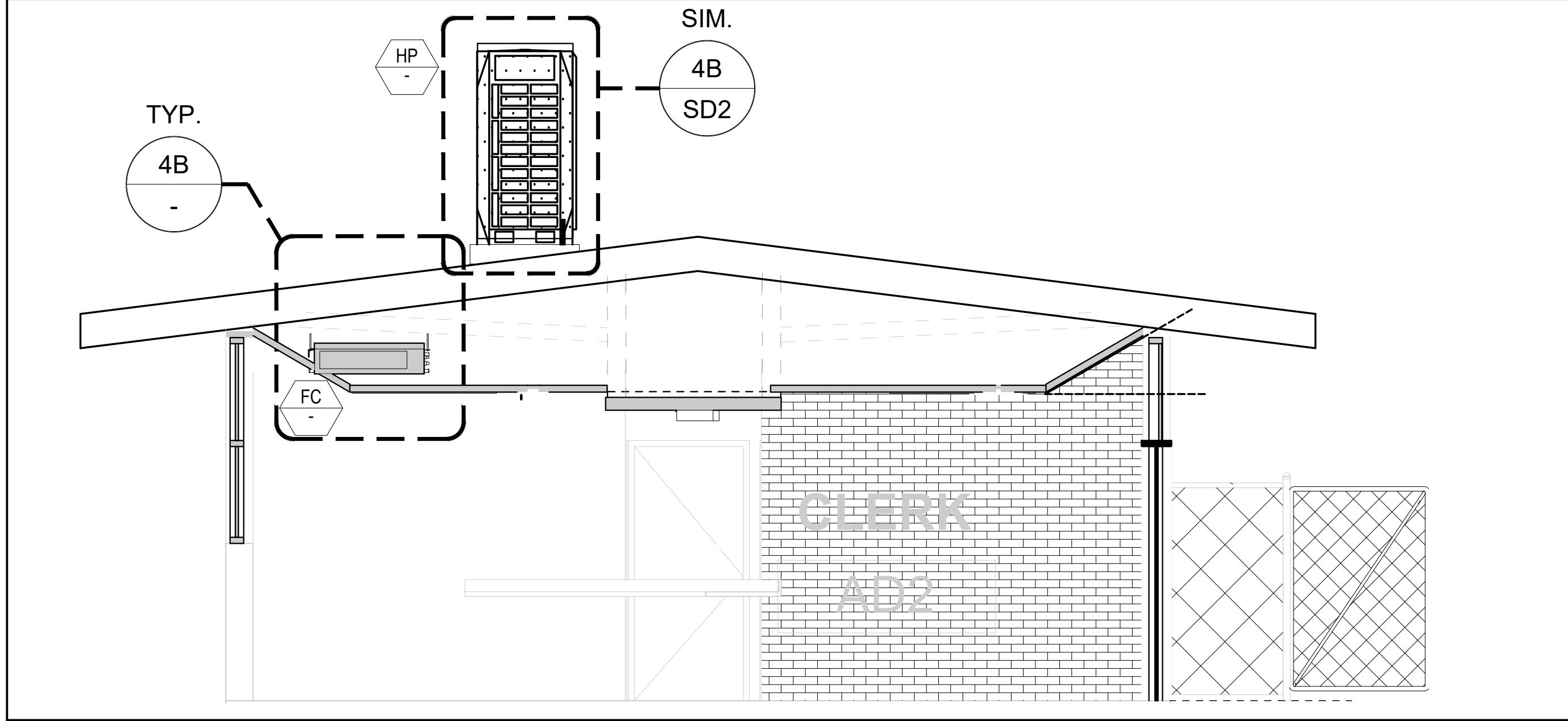
HANGER FOR SAWN LUMBER (UP TO 250 LB)

14



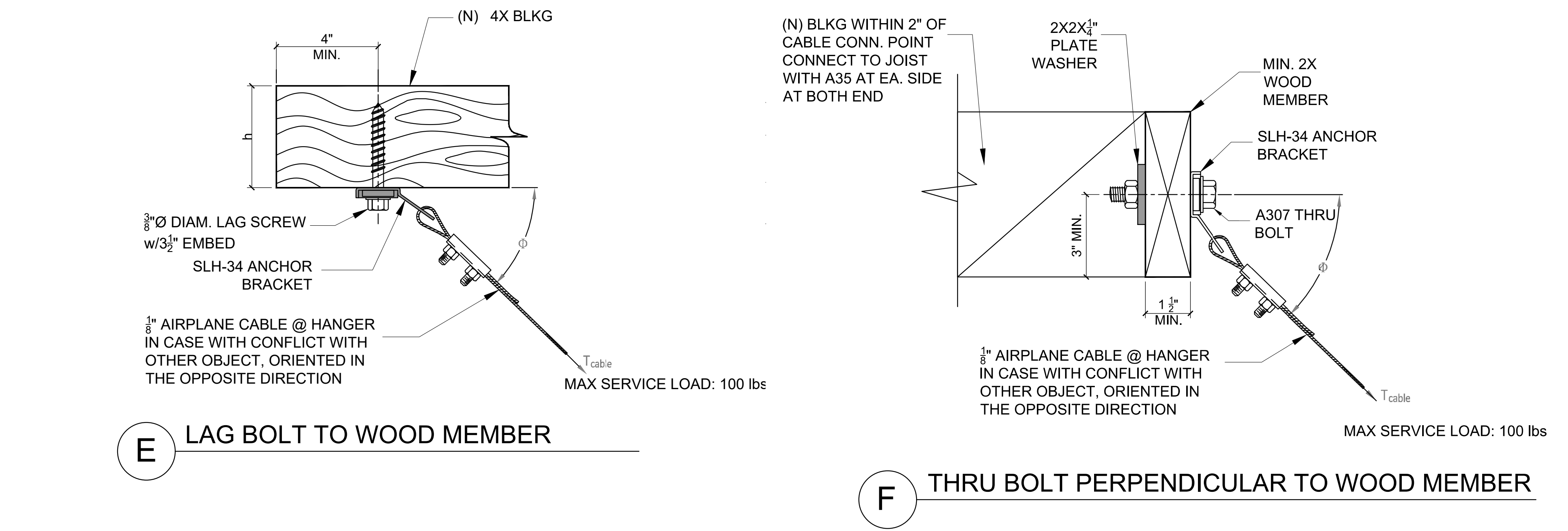
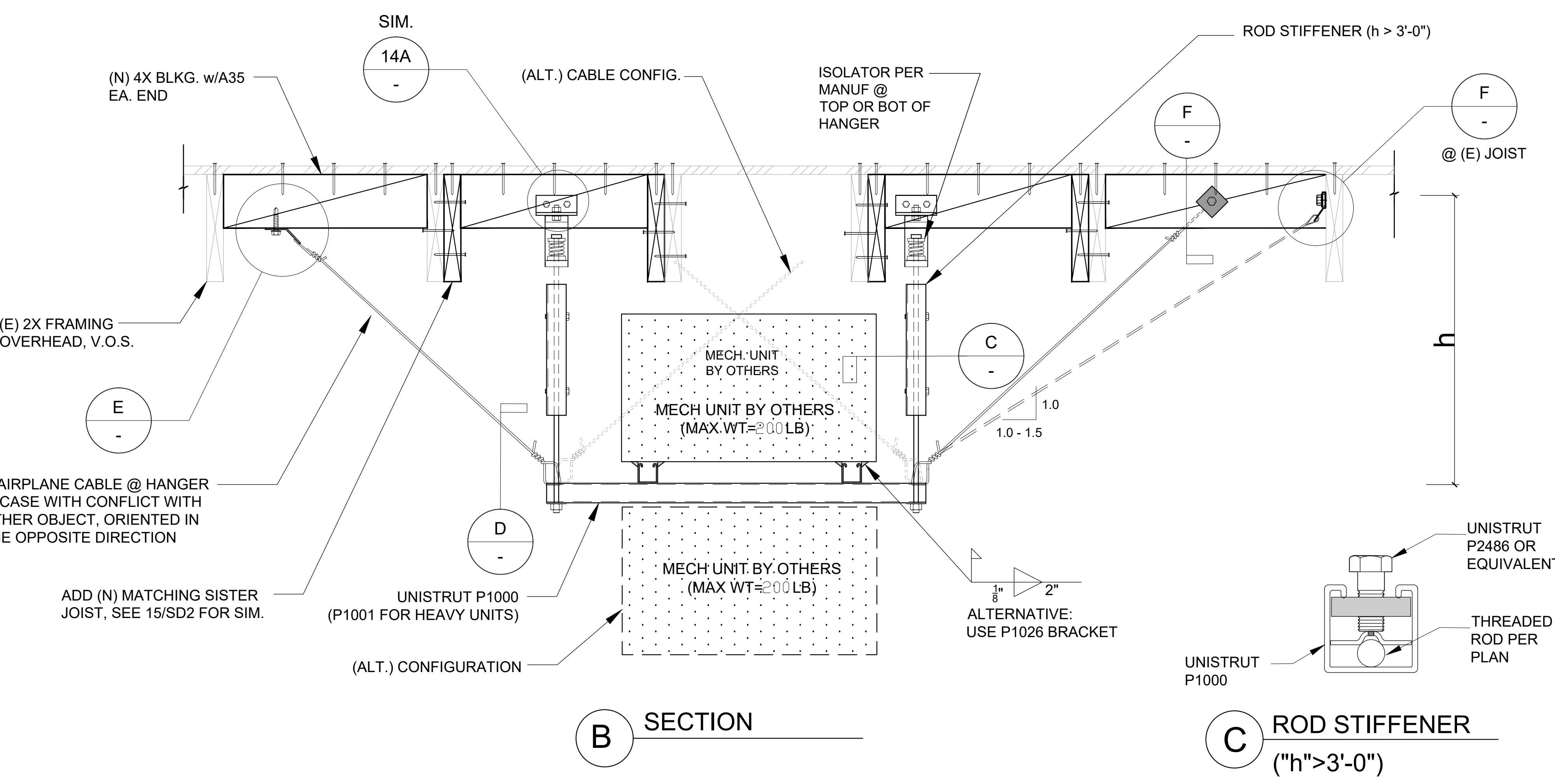
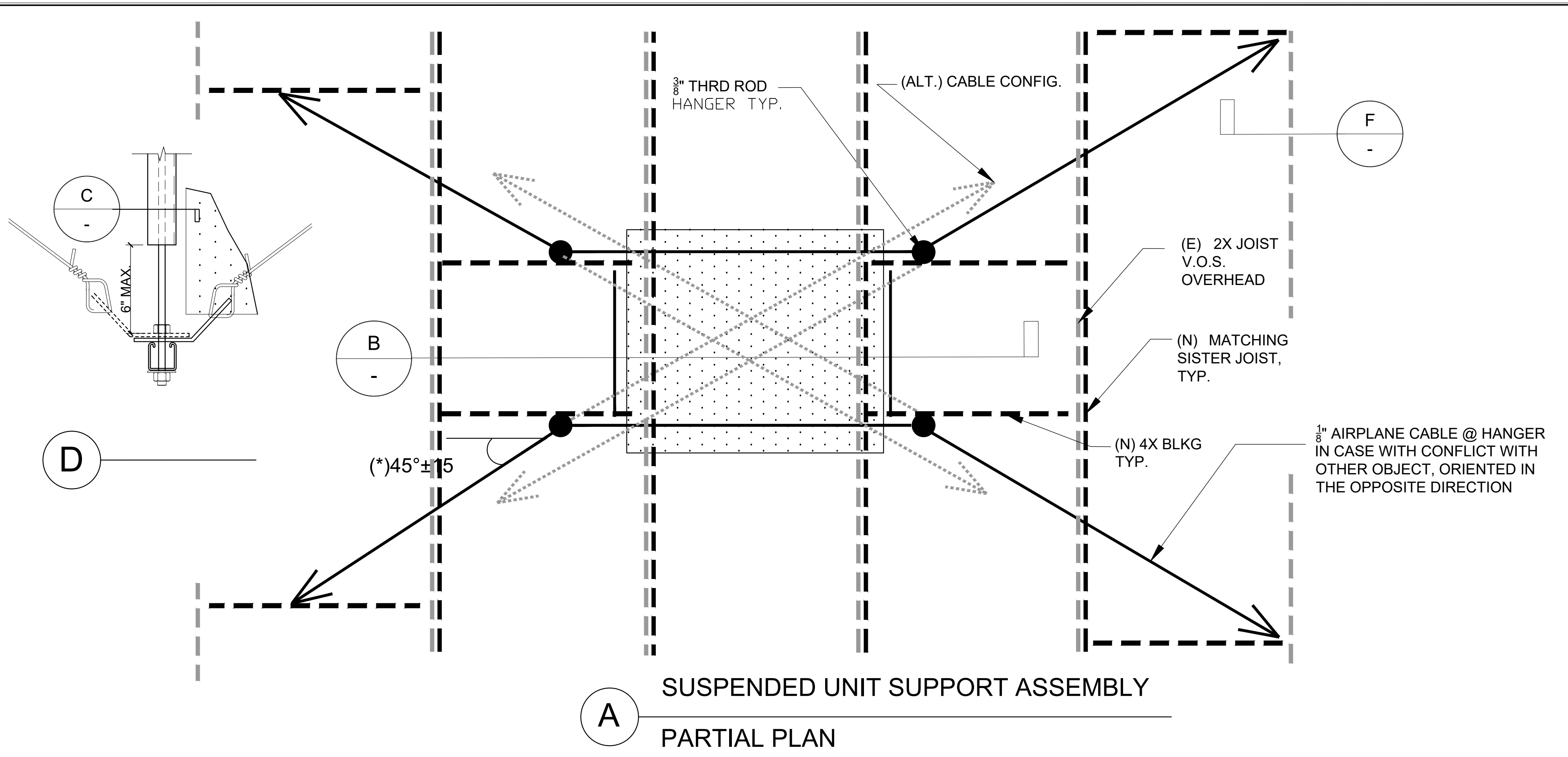
DETAIL

19 LIGHT WT EQUIP. SUPPORT FRAMING 15



SECTION

16



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

4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PRK
ARCHITECT
COSTA MESA
600 Anton Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-545-5000
PRK.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO.: #000000 DSA FILE NO.: #000000

E4 E3 E2 E1
D4 D3 D2 D1
F1 F2 F3 F4

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KEY PLAN
NORTH: PLAN TRUE

Consultant
NU
STRUCTURAL ENGINEERING
CONSULTANTS
23 CORPORATE PLAZA DR.
SUITE 150
NEWPORT BEACH, CA 92660
NIC PROJECT NO. 2226.07

REGISTERED PROFESSIONAL ENGINEER
No. 84302
Exp. 08/00/23
STRUCTURAL ENGINEERING
OF CALIFORNIA

Architect
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE
PROJECT NUMBER
000000
REVISIONS
No. Description Date
DSA SUBMITTAL

HUNG UNITS DETAILS

SD3

FILE PATH: Z:\Projects\...

DRAWING INDEX

DESCRIPTION

- SSION EQUIPMENT THAT DO NOT CONTAIN CFCS.
O NOT CONTAIN HALONS.
- MERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION
QMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1.

PAINTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1.

NOTE:
1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).


- CAL DEVICE WHICH CONTAINS AN OPERABLE
TO SENSORS OR CONTROLS THAT ARE ON

- ## ABBREVIATIONS

- | | | | |
|------|------------------------------|-----|--------------------------|
| GA | GAUGE | UC | UNDERCUT |
| GALV | GALVANIZED | UH | UNIT HEATER |
| GC | GENERAL CONTRACTOR | UON | UNLESS OTHERWISE NOTED |
| GPM | GALLONS PER HOUR | UTR | UP THROUGH ROOF |
| GPM | GALLONS PER MINUTE | | |
| HB | HOSE BIBB | V | VOLTS |
| HD | HEAD | VA | DAMPEN/VALVE ACTUATOR |
| HOA | HANDS OFF AUTO | VO | VARIABLE AIR VOLUME UNIT |
| HP | HEAT PUMP | VD | VOLUME DAMPER |
| HT | HORSEPOWER | VFD | VARIABLE FREQUENCY DRIVE |
| HI | HEIGHT | VP | VELOCITY PRESSURE |
| HV | HEATING AND VENTILATING UNIT | VTR | VENT THROUGH ROOF |
| HWC | HOT WATER CONVERTER | W | WITH |
| HWP | HEATING HOT WATER RETURN | W/O | WITHOUT |
| HWR | HOT WATER PUMP | WB | WET BULB |
| HWS | HEATING HOT WATER SUPPLY | WC | WATER COLUMN |
| HZ | HERTZ | WG | WATER GAUGE |
| | | WT | WEIGHT |
| IC | MOTOR STATUS | | |
| ICW | INDUSTRIAL COLD WATER | | |
| ID | INSIDE DIAMETER | | |
| IN | INCHES | | |
| IW | INDIRECT WASTE | | |

WEBBER ELEMENTARY HVAC UPGRADE &

Architect



CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE 04-17-2023		PROJECT NUMBER 220309
REVISIONS		
No.	Description	Date
DSA SUBMITTAL		
MECHANICAL SYMBOLS LEGENDS AND NOTES		
MO.00		

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020)
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: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 1 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

A. GENERAL INFORMATION
01 Project Location (City) Westminster, CA 04 Total Conditioned Floor Area 1,169
02 Climate Zone 9 05 Total Unconditioned Floor Area 59
03 Occupancy Types Within Project: 06 # of Stories (habitable Above Grade) 1
☒ Office (B) ☐ Retail (M) ☐ Non-refrigerated Warehouse (S)
☐ Hotel/ Motel Guest Rooms (R-1) ☒ School (E) ☐ Healthcare Facility (I)
☐ High-Rise Residential (R-2/R-3) ☐ Reusable Class Bldg (I) ☐ Other (Write in):
*FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html

B. PROJECT SCOPE
Table Instructions: Include any 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.
My project consists of (check all that apply)
01 Air System(s) 02 Wet System Components 03 Dry System Components
☒ Heating Air System ☐ Water Economizer ☐ Air Economizer
☒ Cooling Air System ☐ Pumps ☐ Electric Resistance Heat
Mechanical Controls ☐ Hydronic System Piping ☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new) ☐ Cooling Towers ☒ Ductwork (existing to remain, altered or new)
☐ Chillers ☒ Ventilation
☐ Boilers ☐ Zonal Systems/ Terminal Boxes

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.
01 System Summary §110.1, §110.2, §140.4 (See Table F) AND 02 Pumps §140.4(b) AND 03 Fans/ Economizers §140.4(b) AND 04 System Controls §110.2, §120.2, §140.4(b) (See Table I) AND 05 Ventilation §120.1 (See Table J) AND 06 Terminal Box Controls §140.4(b) (See Table K) AND 07 Distribution §120.3, §140.4(b) (See Table L) AND 08 Cooling Towers §110.2(a)(2) (See Table M) AND 09 Compliance Results
Yes AND AND AND Yes AND Yes AND AND Yes AND COMPLIES
Mandatory Measures Compliance (See Table Q for Details) COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-MCH-E
Project Name: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 4 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

I. VENTILATION AND INDOOR AIR QUALITY
Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(c)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.
01 ☒ Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02 ☐ Check this box if the project includes Nonresidential or Hotel/Motel spaces
☐ Check this box if the project includes new or altered high-rise residential dwelling units
03 ☐ Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per §120.1(c)(2).

* FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.
* Air filtration requirements apply to the following three system types per §120.1(c)(1): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
* Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
* See Standards Tables 120.1.4 and 120.1.8.
* For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
* §120.2(c)(3) requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250sf or smaller, multipurpose rooms less than 1,000sf, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book-stock aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS
This Section Does Not Apply

L. DISTRIBUTION (DUCTWORK AND PIPING)
Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.2 and prescriptive requirements found in §140.4(b) for duct leakage testing.
Duct Leakage Sealing
The answers to the questions below apply to the following duct system(s): Duct leakage testing triggered for these systems? Yes
11 No The scope of the project includes only duct systems serving healthcare facilities.
12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13 Yes The space conditioning system serves less than 5,000 ft³ of conditioned floor area.
14 Yes The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-MCH-E
Project Name: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 7 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-16-A Supply Air Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-18 Energy Management Control Systems	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-19 Occupancy Sensor Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-20 Multi-Family Ventilation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-MCH-21 Multi-Family Envelope Leakage	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-MCH-E
Project Name: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 2 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
Selections made in Table O have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Table Instructions: Complete the following equipment schedule to show compliance 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(b)(2) for alterations.
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)
01 02 03 04 05 Equipment Sizing per Mechanical Schedule (Btu/h) §140.4(a)(8) Heating Output^a Cooling Output^a Load Calculations^a*
Name or Item Tag Equipment Category per Tables 110.2 & Title 20 Equipment Type per Tables 110.2 & Title 20 Smallest Size Available^a §140.4(a) Per Design (Btu/h) Rated (Btu/h) Supp. Heating Output (Btu/h) Sensible Heat Output (Btu/h) Rated (Btu/h) Total Heating Load (Btu/h) Total Sensible Cooling Load (Btu/h)
HP-A1 Variable Refrigerant Flow VRF heat pump, air cooled Yes 35.9 63.1 0 43.3 63.7 35.9 56.8

* FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.
* It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
* If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
* Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).
Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020)
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-MCH-E
Project Name: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 5 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

Table Continued
01 ☒ Outdoors
☐ In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1) or if the roof has fixed vents or openings to the outside/ unconditioned spaces
☐ In an unconditioned crawlspace
☒ In other unconditioned spaces
15 No The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16 No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17 Duct system shall be sealed in accordance with the California Mechanical Code.

M. COOLING TOWERS
This Section Does Not Apply

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: 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/NRCI/.
YES NO Form/Title Systems To Be Field Verified Field Inspector Pass Fail
☒ NRCA-MCH-01-E - Must be submitted for all buildings. VRF Heat Pump w S fan coils ☐ ☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA
Mechanical Systems
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CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-MCH-E
Project Name: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 8 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Table Instructions: 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 completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/.
YES NO Form/Title Field Inspector Pass Fail
☒ NRCA-MCH-04-H Duct Leakage Test
NOTE: Must be completed by a HERS Rater
☐ NRCA-MCH-24 Enclosure Air Leakage Worksheet
NOTE: Must be completed by a HERS Rater
☐ NRCA-MCH-27 High-rise Residential
NOTE: Must be completed by a HERS Rater
☐ NRCA-MCH-32 Local Mechanical Exhaust
NOTE: Must be completed by a HERS Rater

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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CERTIFICATE OF COMPLIANCE
NRCC-MCH-E
Project Name: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 3 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))
01 02 03 Heating Mode 04 05 06 07 Cooling Mode 08 09
Name or Item Tag Size Category (Btu/h) Rating Condition (°F) Efficiency Unit Min Efficiency Required per Tables 110.2/ Title 20 Design Efficiency Efficiency Unit Min Efficiency Required per Tables 110.2/ Title 20 Design Efficiency
<65,000

G. PUMPS
This Section Does Not Apply

H. FAN SYSTEMS & AIR ECONOMIZERS
This Section Does Not Apply

I. SYSTEM CONTROLS
Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(i) and (j) or requirements in §141.0(b)(2) for altered space conditioning systems.
01 02 03 Conditioned Floor Area Being Served (ft²) 04 Thermostats §110.2(b) & (c)1, §120.2(a) or §141.0(b)(2) 05 Shut-Off Controls §120.2(a) 06 Isolation Zone Controls §120.2(a) 07 Demand Response §110.12 and §120.2(b) 08 Supply Air Temp. Reset §140.4(f) 09 Window Interlocks per §140.4(f)
System Name System Zoning HP-A1 single zone ≤ 25,000 ft² Setback Thermostat Auto Timeswitch NA: Single Zone NA: PTAC, PTHP, Rm AC, HP NA: Single Zone NA: No thermostatic control

* 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.
DX: System 1: 34 Temp Reset. Exempt because zones compliant with §140.4(d). EXCEPTION 1 to §140.4(d)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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CERTIFICATE OF COMPLIANCE
NRCC-MCH-E
Project Name: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 6 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: 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/.
YES NO Form/Title Systems To Be Field Verified Field Inspector Pass Fail
☒ NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.
☐ NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".
☐ NRCA-MCH-04-A Air Distribution Duct Leakage
☐ NRCA-MCH-05-A Air Economizer Controls
☒ NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(8) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
☐ NRCA-MCH-07-A Supply Fan Variable Flow Controls
☐ NRCA-MCH-08-A Valve Leakage Test
☐ NRCA-MCH-09-A Supply Water Temperature Reset Controls
☐ NRCA-MCH-10-A Hydronic System Variable Flow Controls
☐ NRCA-MCH-11-A Automatic Demand Shed Controls

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA
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NRCC-MCH-E
Project Name: Webber Elementary School Modernization - Administration Bldg. Report Page: Page 9 of 10
Project Address: 14142 Hoover Street, Westminster, CA 92683 Date Prepared: December 15, 2022

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.
01 02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block: Yes Plan sheet or construction document location
Dwgs. M4.01 & M4.02 Schedules

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PRK

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COSTA MESA
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P 949-546-5000
CONSULTANT LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909-857-0909
leafengineers.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO. 04-121818 DSA FILE NO. 30-43

Consultant
REGISTERED PROFESSIONAL ENGINEER
No. 18155
Exp. 09-30-2024
DAVID HENNING
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 04-17-2023 PROJECT NUMBER 220309
REVISIONS
No. Description Date
DS A SUBMITTAL

MECHANICAL - TITLE 24
- ADMINISTRATION

0"
1"

STATE OF CALIFORNIA

MECHANICAL SYSTEMS

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Webber Elementary School Modernization - Administration Bldg.

Report Page: Page 10 of 10

Project Address: 14142 Hoover Street, Westminster, CA 92683

Date Prepared: December 15, 2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: John Matteotti, P.E.

Documentation Author Signature: John Matteotti

(Digitally signed by John Matteotti
DN: cn=John Matteotti, o=NRCC-MCH-E, email=John.Matteotti@nrcc-mch-e.com

Company: Leaf Engineers

Signature Date: December 15, 2022

Address: 8163 Rochester Avenue, Suite 100

CEA/HERS Certification Identification (if applicable):

City/State/Zip: Rancho Cucamonga, CA 91730

Phone: 415-710-4045

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, P.E.

Responsible Designer Signature: Rex Wang

(Digitally signed by Rex Wang
DN: cn=Rex Wang, o=NRCC-MCH-E, email=Rex.Wang@nrcc-mch-e.com

Company: Leaf Engineers

Date Signed: December 23, 2022

Address: 8163 Rochester Avenue, Suite 100

License: M 36155

City/State/Zip: Rancho Cucamonga

Phone: 909-987-0909

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

September 2020

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APP: 04-121818 INC:

REVIEWED FOR:

SS ☒ FLS ☒ ACS ☒

DATE: 08/11/2023

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PBK Architects, Inc.

PBK.com

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P 949-546-5000

CONSULTANT

LEAF ENGINEERS

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leafengineers.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APP. NO. 04-121818 DSA FILE NO. 30-43

Consultant

Architect

CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
04-17-2023	220309	
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

MECHANICAL - TITLE 24
- ADMINISTRATION

M0.02

0"
1"

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (General) (09/2020)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: Webber Elementary School Modernization - Classroom Bldg. A
Project Address: 14142 Hoover Street, Westminster, CA 92683

Report Page: Page 10 of 11
Date Prepared: December 15, 2022

NRCC-MCH-E

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A"; any active cells that are left blank will result in non-compliance in Table C.

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Yes
	Plan sheet or construction document location Dwgs. M4.01 & M4.02 Schedules

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (General) (09/2020)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: Webber Elementary School Modernization - Classroom Bldg. A
Project Address: 14142 Hoover Street, Westminster, CA 92683

Report Page: Page 11 of 11
Date Prepared: December 15, 2022

NRCC-MCH-E

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: John Matteotti, P.E.
Company: Leaf Engineers
Address: 8163 Rochester Avenue, Suite 100
City/State/Zip: Rancho Cucamonga, CA, 91730

Documentation Author Signature: John Matteotti
Signature Date: December 15, 2022
CEA/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:

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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.

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Responsible Designer Name: Rex Wang, P.E.
Company: Leaf Engineers
Address: 8163 Rochester Avenue, Suite 100
City/State/Zip: Rancho Cucamonga, CA, 91730

Responsible Designer Signature: Rex Wang
Date Signed: December 23, 2022
License: M 36155
Phone: 909.987.0909

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DIV. OF THE STATE ARCHITECT

APP: 04-121818 INC:

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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

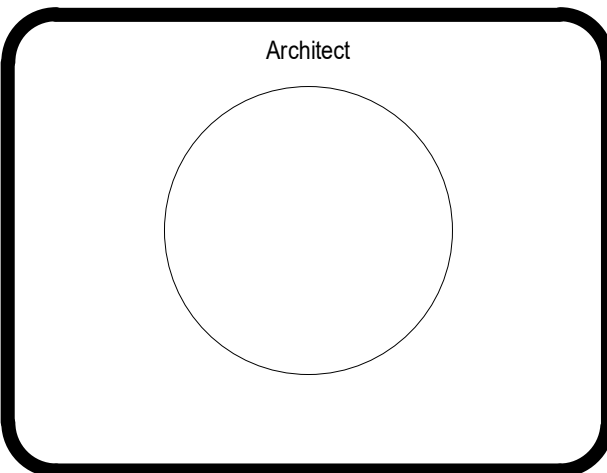
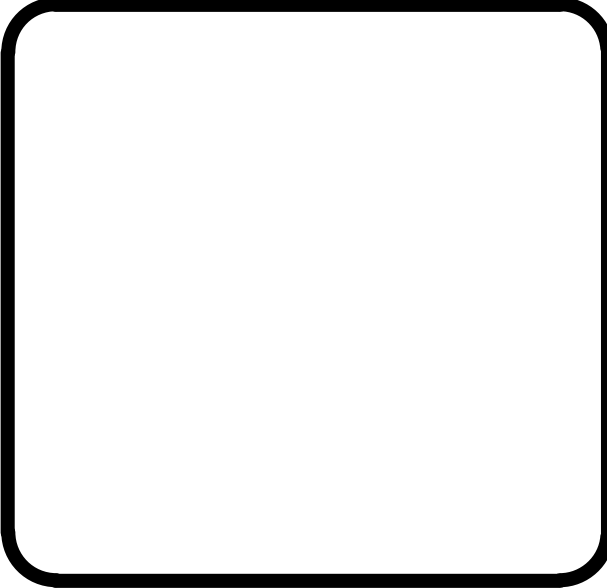
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909-987-0909
leafengineers.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA FILE NO.: 30-43



CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE: 04-17-2023 PROJECT NUMBER: 220309

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL - TITLE 24
- CLASSROOM BLDG. A

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> September 2020

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> September 2020

M0.05

0"
1"

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (General) (9/2020)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Webber Elementary School Modernization - Classroom Bldg. B
Project Address: 14142 Hoover Street, Westminster, CA 92683
Report Page: Page 10 of 11
Date Prepared: December 15, 2022

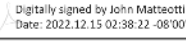
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Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A"; any active cells that are left blank will result in non-compliance in Table C.

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Yes
	Plan sheet or construction document location Dwgs. M4.01 & M4.02 Schedules

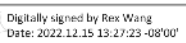
STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (General) (9/2020)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Webber Elementary School Modernization - Classroom Bldg. B
Project Address: 14142 Hoover Street, Westminster, CA 92683
Report Page: Page 11 of 11
Date Prepared: December 15, 2022

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

Documentation Author Name:	John Matteotti, P.E.	Documentation Author Signature: John Matteotti	
Company:	Leaf Engineers	Signature Date:	December 15, 2022
Address:	8163 Rochester Avenue, Suite 100	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.
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Responsible Designer Name:	Rex Wang, P.E.	Responsible Designer Signature: Rex Wang	
Company:	Leaf Engineers	Date Signed:	December 23, 2022
Address:	8163 Rochester Avenue, Suite 100	License:	M 36155
City/State/Zip:	Rancho Cucamonga, CA 91730	Phone:	909.987.0909

IDENTIFICATION STAMP
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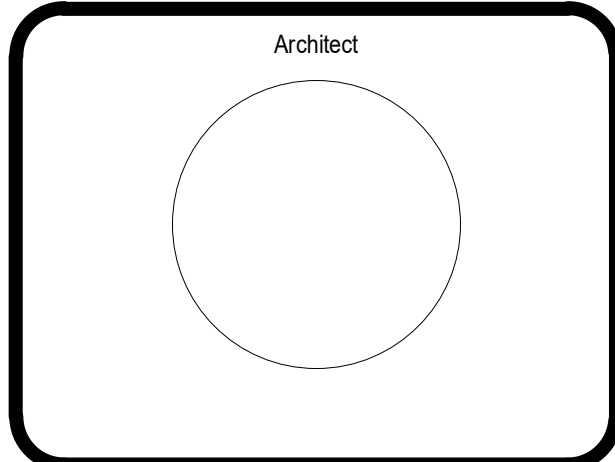
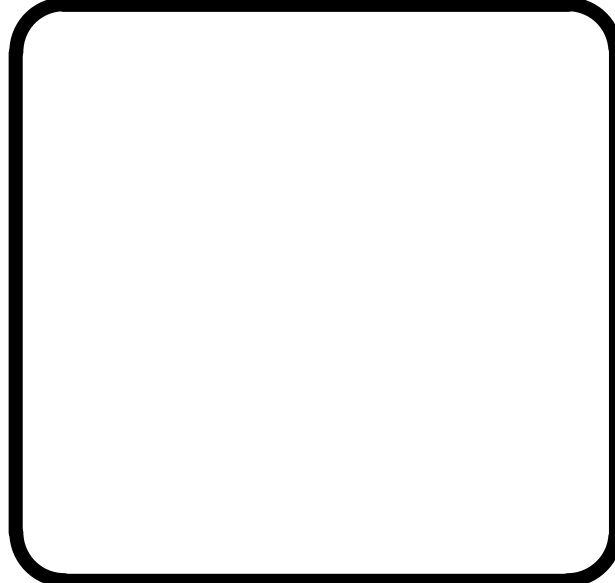
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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DSA SUBMITTAL
DSA APP. NO. 04-121818 DSA FILE NO. 30-43



CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 04-17-2023 PROJECT NUMBER 220309

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL - TITLE 24
- CLASSROOM BLDG. B

0"
1"

STATE OF CALIFORNIA

MECHANICAL SYSTEMS

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Webber Elementary School Modernization - Classroom Bldg. C

Report Page: Page 10 of 12

Project Address: 14142 Hoover Street, Westminster, CA 92683

Date Prepared: December 15, 2022

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Plan sheet or construction document location Dwg: M4.01 & M4.02 Schedules

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

STATE OF CALIFORNIA

MECHANICAL SYSTEMS

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Webber Elementary School Modernization - Classroom Bldg. C

Report Page: Page 11 of 12

Project Address: 14142 Hoover Street, Westminster, CA 92683

Date Prepared: December 15, 2022

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

September 2020

STATE OF CALIFORNIA

MECHANICAL SYSTEMS

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Webber Elementary School Modernization - Classroom Bldg. C

Report Page: Page 12 of 12

Project Address: 14142 Hoover Street, Westminster, CA 92683

Date Prepared: December 15, 2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: John Matteotti, P.E.

Documentation Author Signature: John Matteotti

Company: Leaf Engineers

Signature Date: December 15, 2022

Address: 8163 Rochester Avenue, Suite 100

CEA/HERS Certification Identification (if applicable):

City/State/Zip: Rancho Cucamonga, CA 91730

Phone: 415-710-4045

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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Responsible Designer Name: Rex Wang, P.E.

Responsible Designer Signature: Rex Wang

Company: Leaf Engineers

Date Signed: December 23, 2022

Address: 8163 Rochester Avenue, Suite 100

License: M 36155

City/State/Zip: Rancho Cucamonga

Phone: 909-987-0909

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

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PROJECT ADDRESS:

14142 Hoover St

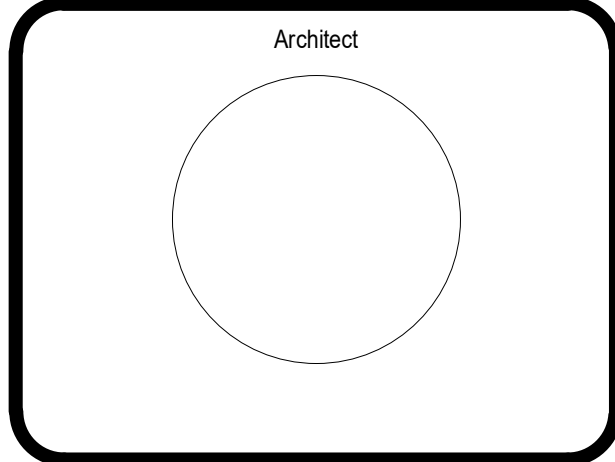
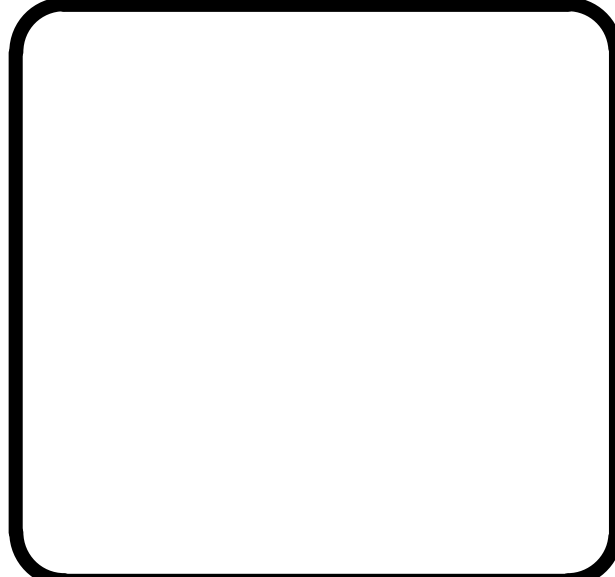
Westminster, CA 92683

DSA SUBMITTAL

DSA APP. NO. 04-121818

DSA FILE NO. 30-43

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION



CLIENT

WESTMINSTER SCHOOL DISTRICT

DATE: 04-17-2023

PROJECT NUMBER: 220309

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL - TITLE 24 - CLASSROOM BLDG. C

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> September 2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> September 2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> September 2020

M0.09

0"
1"

STATE OF CALIFORNIA

MECHANICAL SYSTEMS

CERTIFICATE OF COMPLIANCE

PROJECT NAME: WEBBER ELEMENTARY SCHOOL MODERNIZATION - KINDERGARTEN

REPORT PAGE: 10 OF 10

PROJECT ADDRESS: 34342 HOOVER STREET, WESTMINSTER, CA 92683

DATE PREPARED: DECEMBER 15, 2022

MECHANICAL SYSTEMS

CERTIFICATE OF COMPLIANCE

PROJECT NAME: WEBBER ELEMENTARY SCHOOL MODERNIZATION - KINDERGARTEN

REPORT PAGE: 10 OF 10

PROJECT ADDRESS: 34342 HOOVER STREET, WESTMINSTER, CA 92683

DATE PREPARED: DECEMBER 15, 2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: John Matteotti, P.E.

Documentation Author Signature: John Matteotti

Signature Date: December 15, 2022

Company: Leaf Engineers

Address: 8163 Rochester Avenue, Suite 100

City/State/Zip: Rancho Cucamonga, CA 91730

Phone: 415-710-4043

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, P.E.

Responsible Designer Signature: Rex Wang

Signature Date: December 23, 2022

Company: Leaf Engineers

Address: 8163 Rochester Avenue, Suite 100

City/State/Zip: Rancho Cucamonga

Phone: 909-987-0909

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

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 04-121818 INC:

REVIEWED FOR:

SS ☒ FLS ☒ ACS ☒

DATE: 08/11/2023



ARCHITECT

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Costa Mesa, CA 92626

P 949-546-5000

CONSULTANT

LEAF ENGINEERS

8163 Rochester Avenue, Suite 100

Rancho Cucamonga, CA 91730

909-987-0909

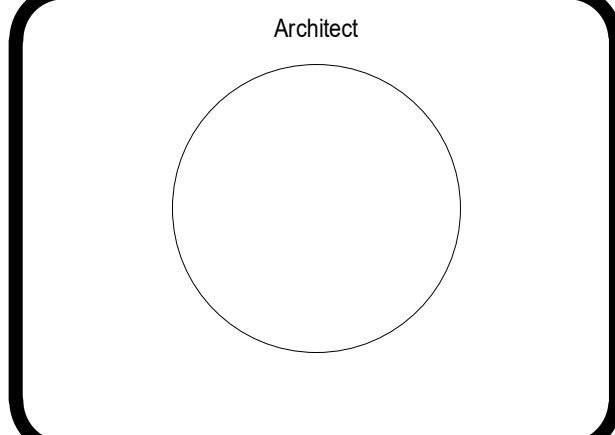
leafengineers.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA APP. NO. 04-121818 DSA FILE NO. 30-43



CLIENT

WESTMINSTER SCHOOL DISTRICT

DATE: 04-17-2023

PROJECT NUMBER: 220309

REVISIONS

No.	Description	Date

DSA SUBMITTAL

MECHANICAL - TITLE 24 - KINDERGARTEN

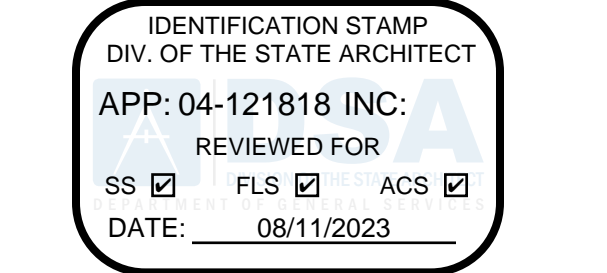


GENERAL NOTES

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 MECHANICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING OPERATIONS SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. MECHANICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS, AND A FIELD VISIT OF THE MECHANICAL SYSTEMS IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS. MECHANICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE MECHANICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING BUILDING OR SYSTEMS CAUSED BY INSTALLATION OF NEW WORK.

KEY NOTES

1 SCOPE OF WORK.



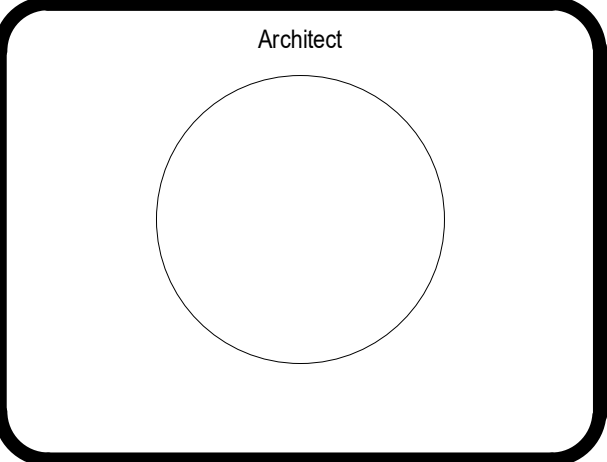
ARCHITECT PBK Architects, Inc.
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CONSULTANT LEAF ENGINEERS
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

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Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO. 04-121818 DSA FILE NO. 30-43



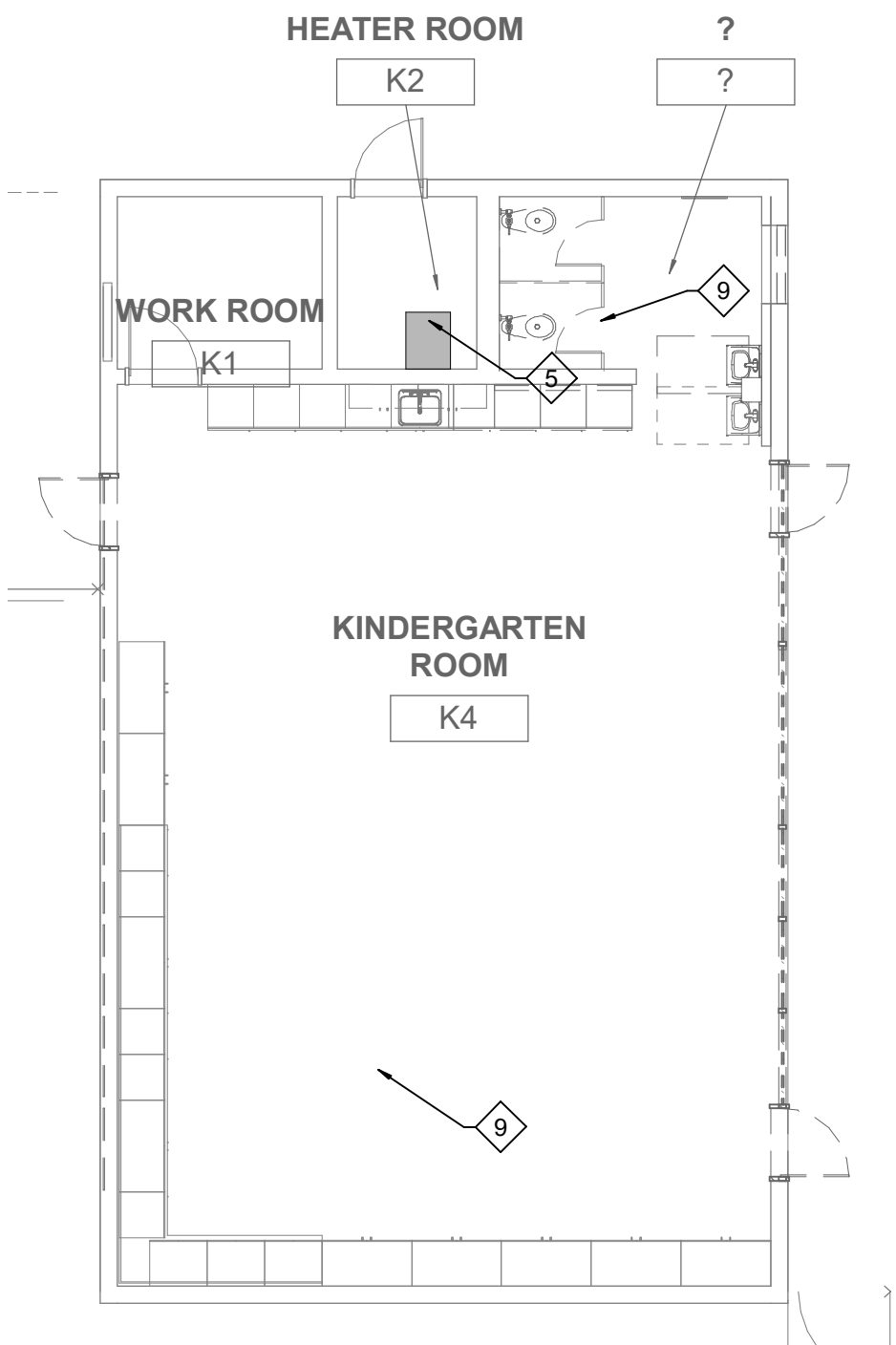
REVISIONS		
No.	Description	Date

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WESTMINSTER SCHOOL DISTRICT
DATE 04-17-2023 PROJECT NUMBER 220309

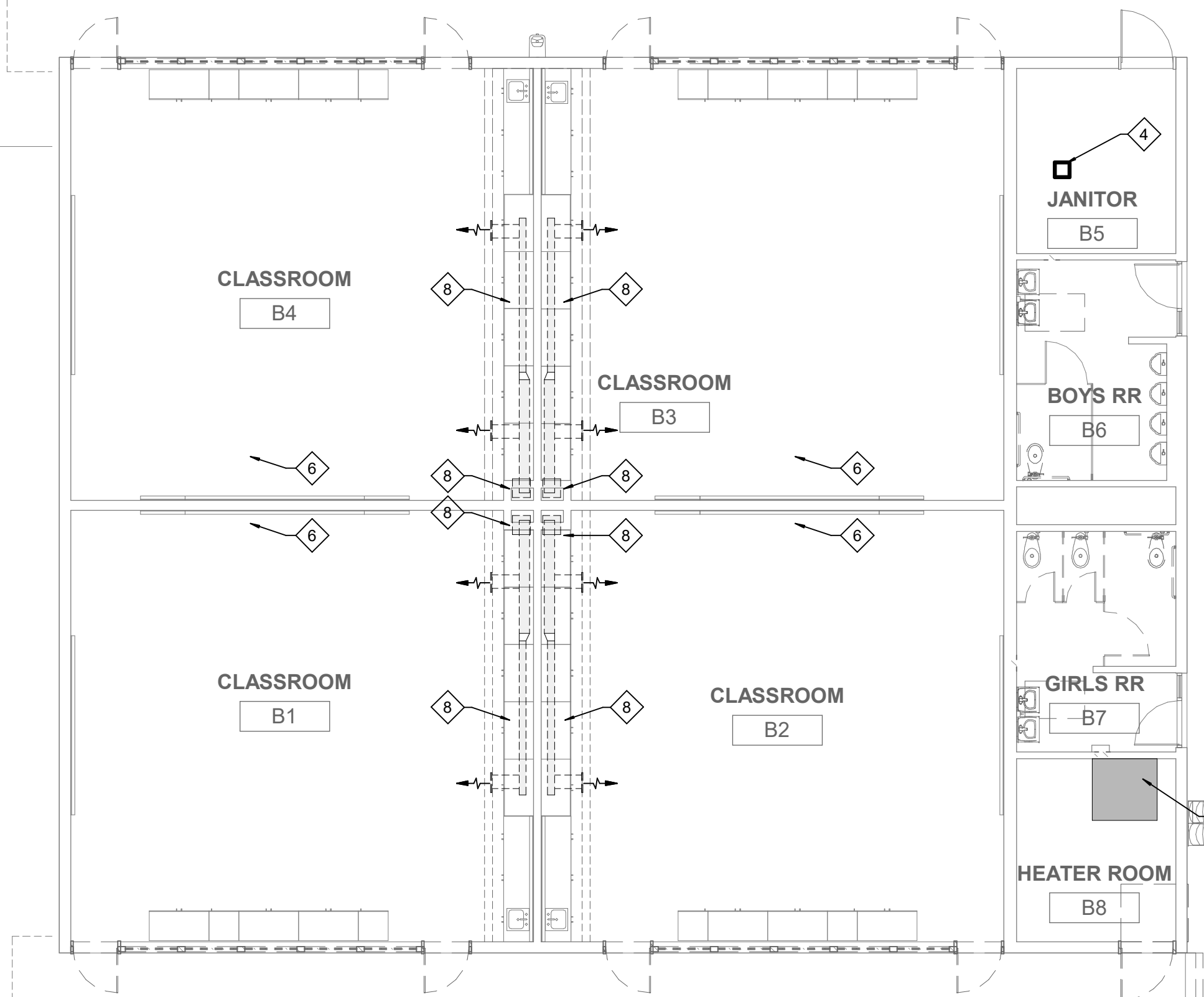
DSA SUBMITTAL

MECHANICAL SITE PLAN

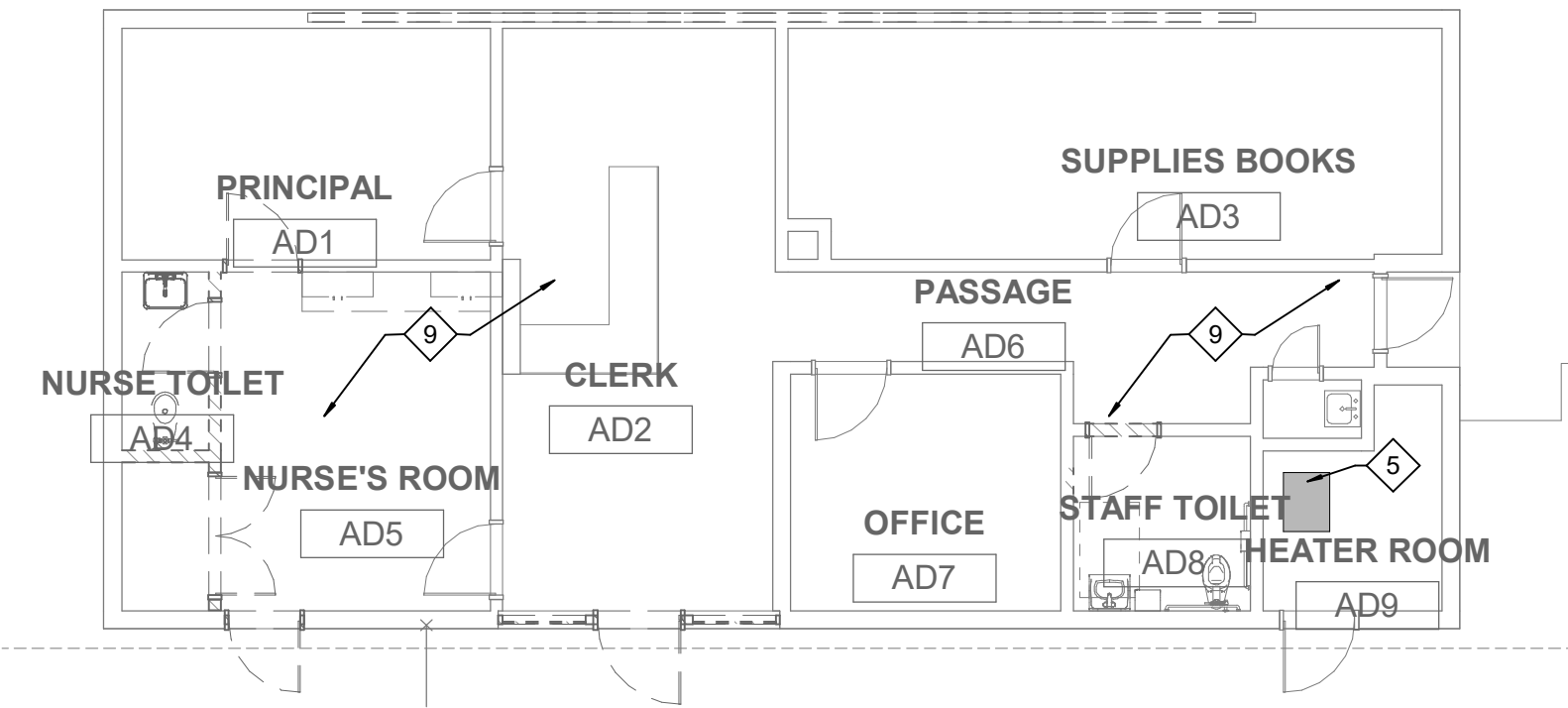
3 BLDG K - FLOOR PLAN - DEMO
1/8" = 1'-0"



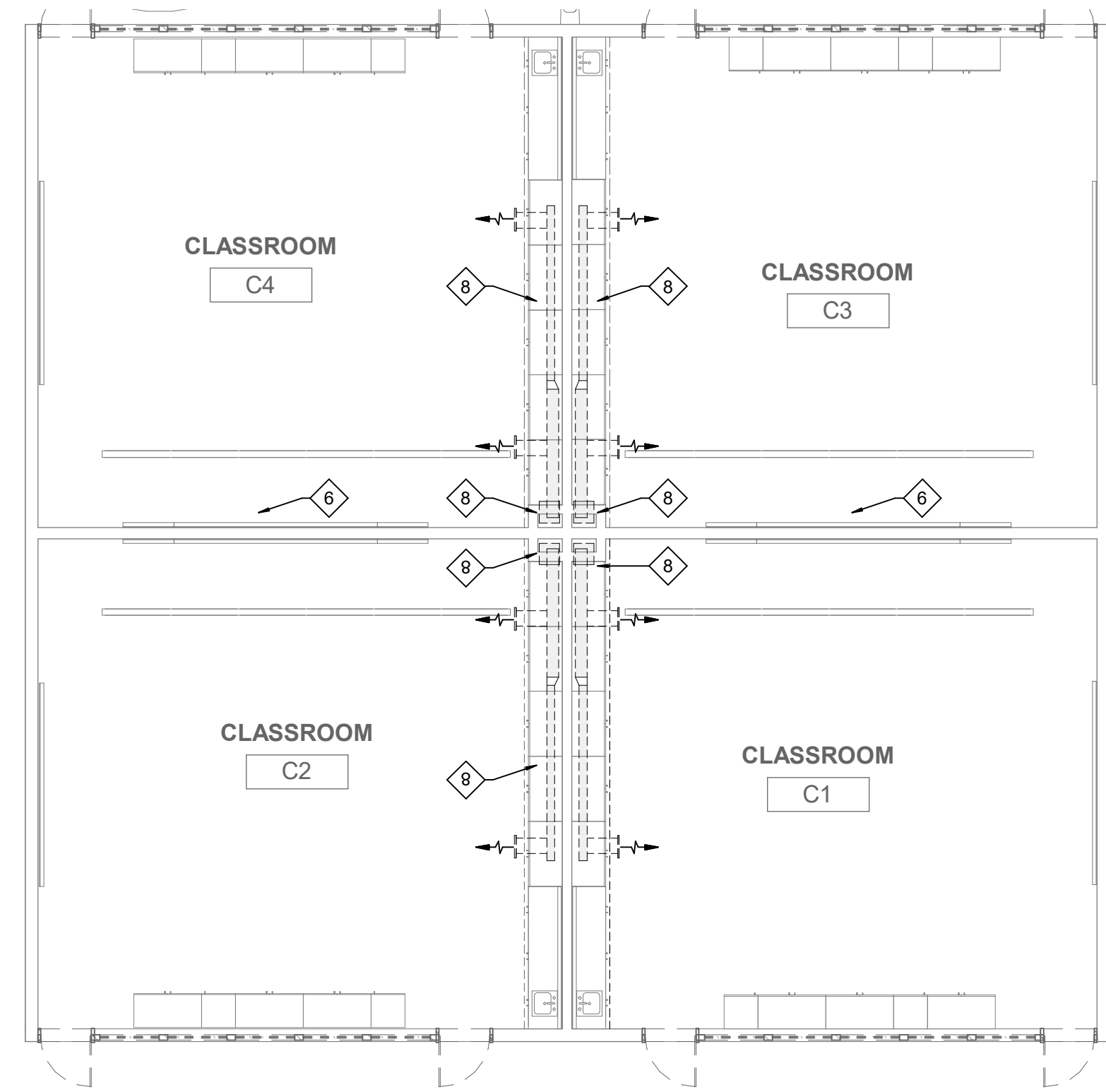
2 BLDG B - FLOOR PLAN - DEMO
1/8" = 1'-0"



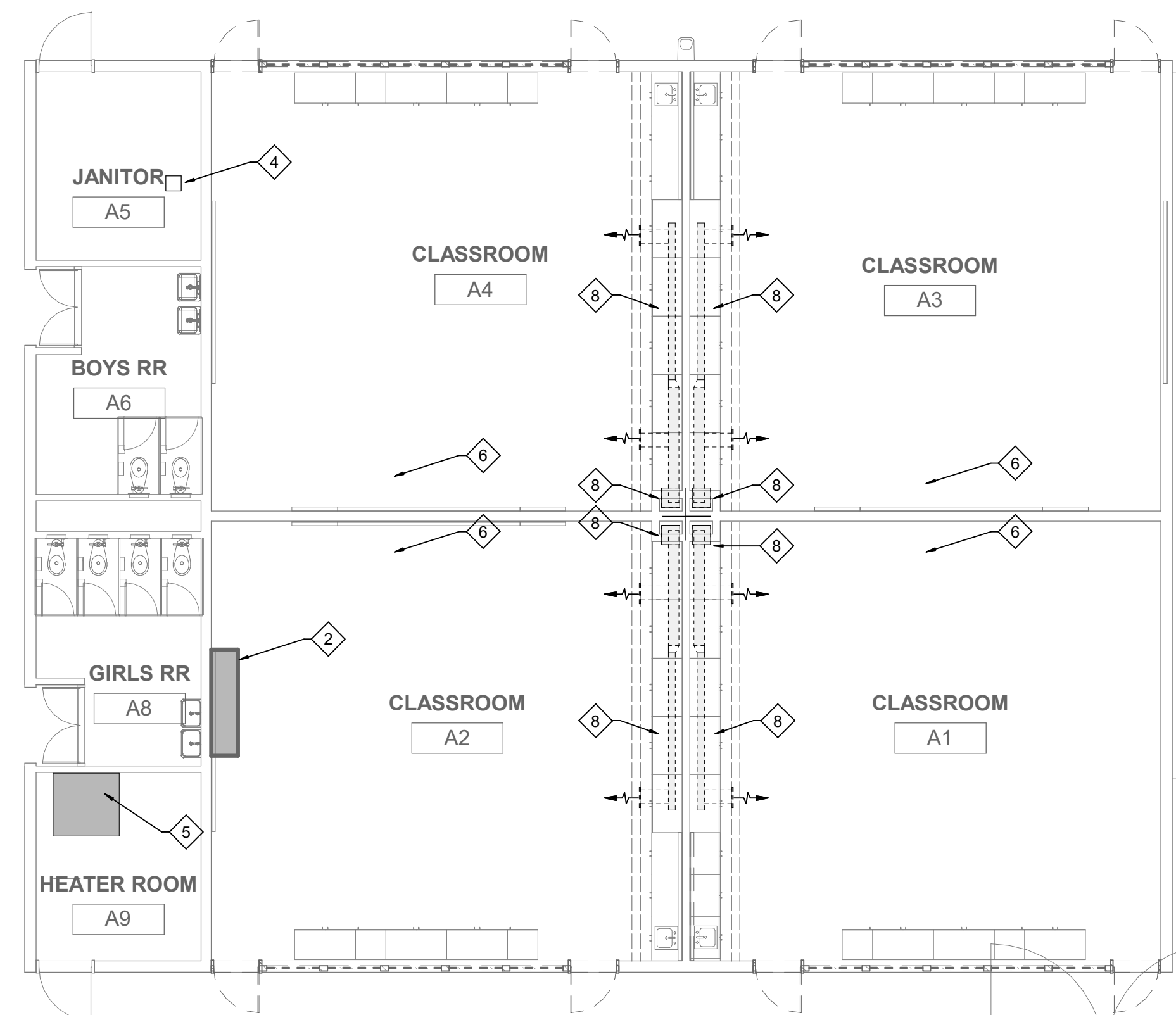
5 BLDG ADMIN - FLOOR PLAN - DEMO
1/8" = 1'-0"



4 BLDG C - FLOOR PLAN - DEMO
1/8" = 1'-0"



1 BLDG A - FLOOR PLAN - DEMO
1/8" = 1'-0"



KEY NOTES

- EXISTING CONDENSING UNIT AND PIPING ON ROOF TO BE REMOVED.
- EXISTING INSIDE WALL MOUNTED SPLIT AC UNIT AND PIPING TO BE REMOVED.
- REMOVE EXISTING ROOFTOP FAN TO ALLOW FOR REPLACEMENT WITH NEW ROOF FAN.
- REMOVE EXISTING CABINET FAN IN JANITORS ROOM AND REPLACE WITH NEW FAN AND DUCT TO NEW EXTERIOR LOUVER.
- REMOVE EXISTING FURNACE/BOILER AND ALL SUPPLY AND RETURN AIR DUCTWORK. PIPING, PUMPS AND ALL HYDRONIC & DUCT WORK IN HEATER ROOM. CAP EXISTING DUCT WHERE IT PENETRATES THE FURNACE ROOM WALLS. DO NOT REMOVE GAS PIPING SERVING THE EXISTING WATER HEATER. REMOVE AND CAP UNUSED GAS PIPING INSIDE THE FURNACE ROOM. CAP ANY CONCEALED PIPING OR DUCTWORK LEAVING THE FURNACE/BOILER ROOM.
- REMOVE ALL EXISTING DUCTWORK IN THE CLERSTORY AREA AND CAP REMAINING DUCTS THAT ARE CONCEALED OR INACCESSIBLE.
- REMOVE HYDRONIC PIPING IN CLEARSTORY AREA THAT IS UNUSED. CAP THE REMAINING PIPING AS IT BECOMES INACCESSIBLE.
- REMOVE EXISTING FAN COILS, PIPING AND DUCTWORK IN THE DROPPED SOFFIT SPACE, INCLUDING THE DUCT DOWN TO THE RETURN AIR GRILLE NEAR THE FLOOR.
- REMOVE ALL EXISTING DUCTS, FANS, AIR HANDLERS, HVAC PIPING AND HVAC EQUIPMENT IN BUILDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023



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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER
DAVID HUNG
No. M0155
Exp. 09-30-2024
STATE OF CALIFORNIA

Architect

REVISIONS		
No.	Description	Date

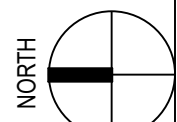
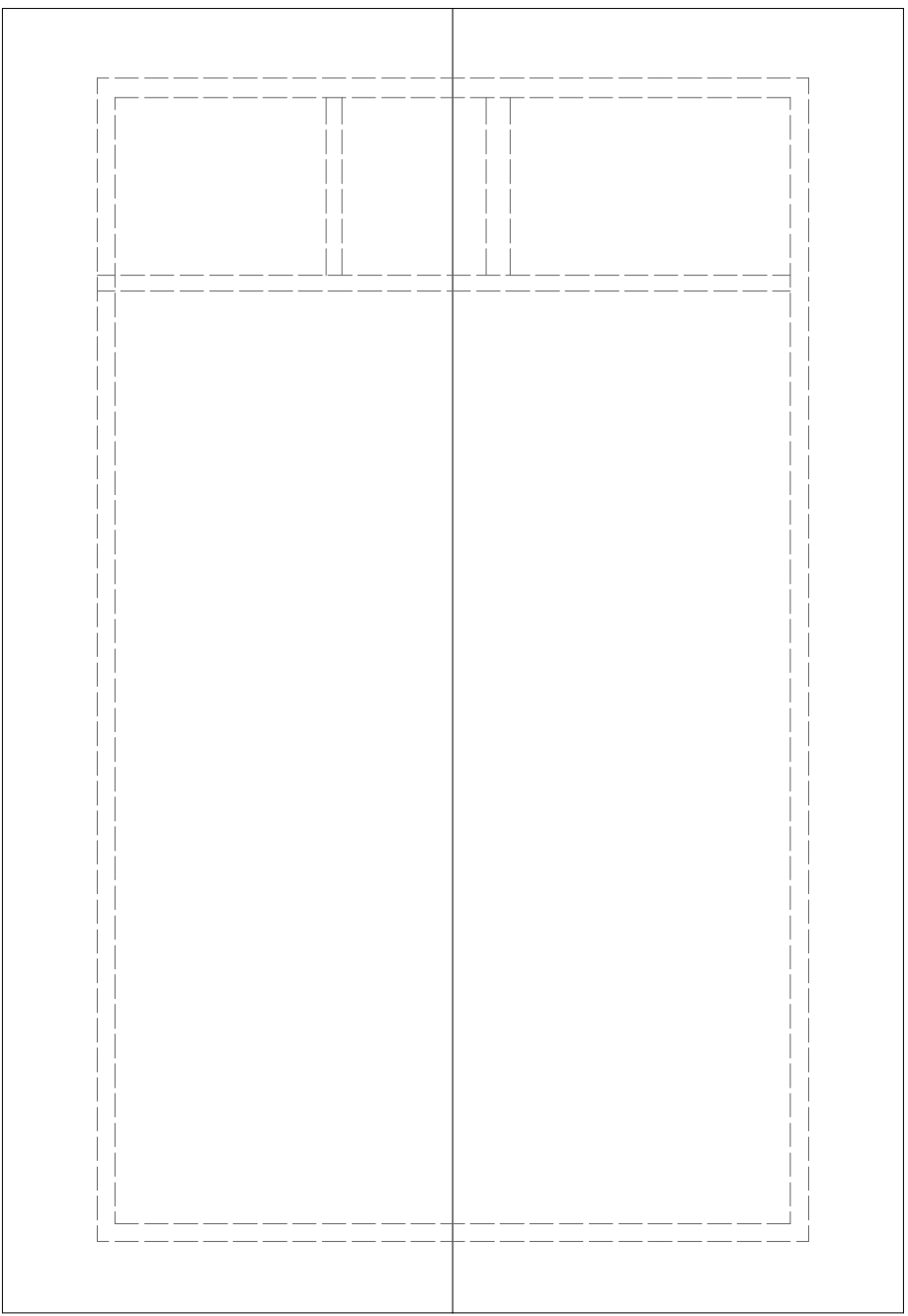
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 04-17-2023 PROJECT NUMBER 220309

DSA SUBMITTAL

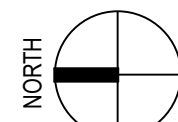
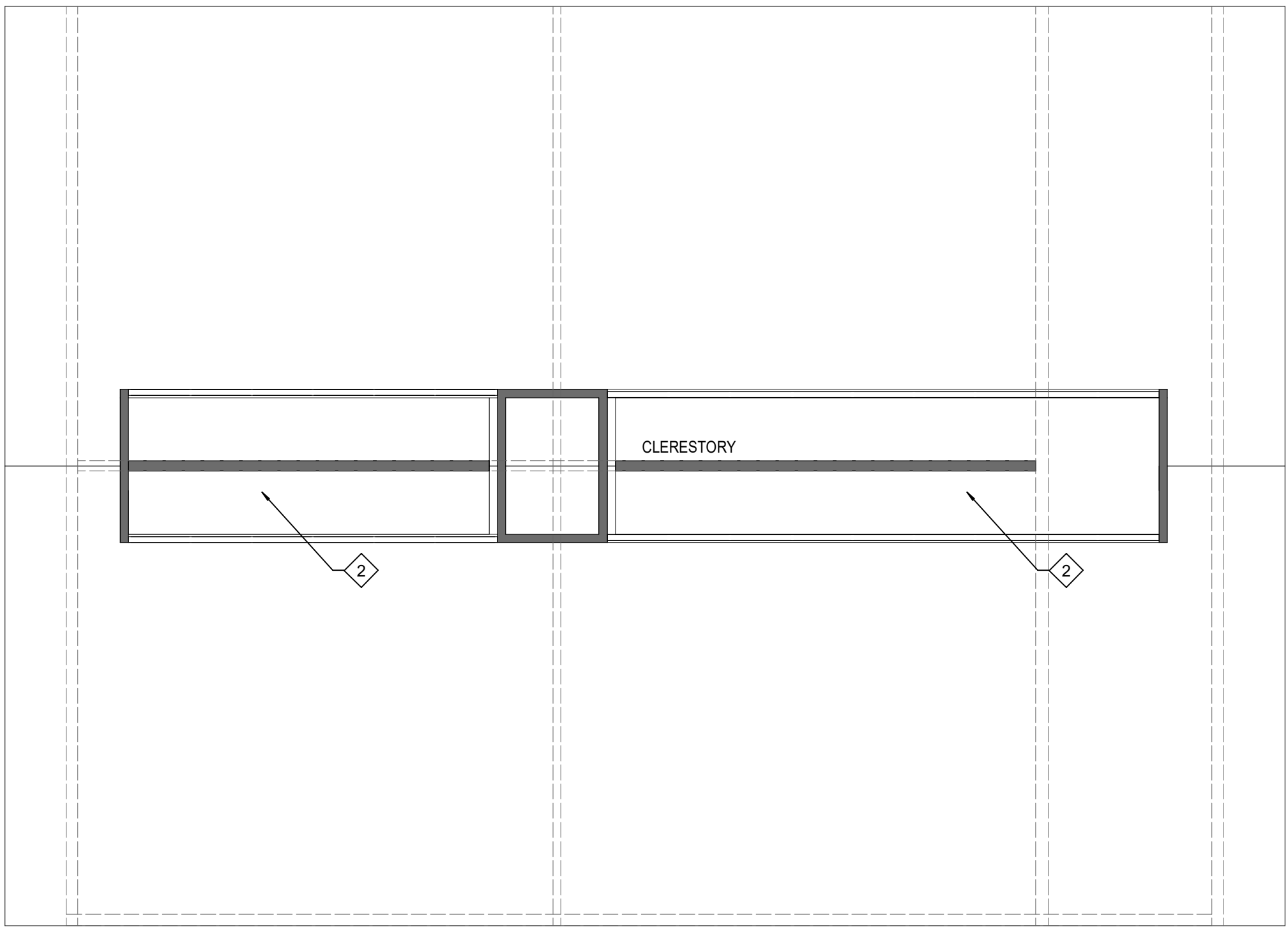
MECHANICAL FLOOR PLANS - DEMO



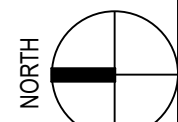
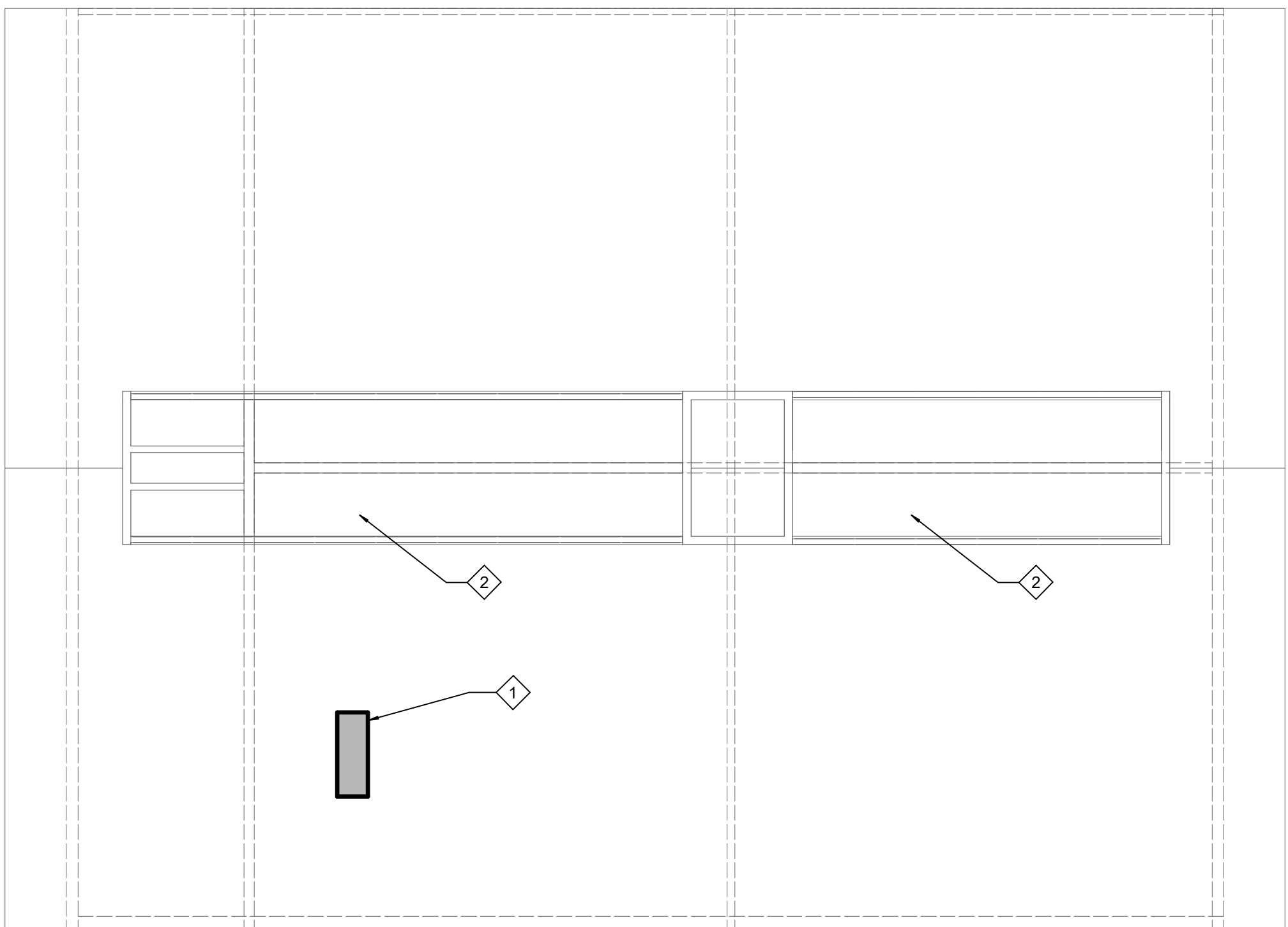
3 KINDERGARTEN ROOF
1/8" = 1'-0"



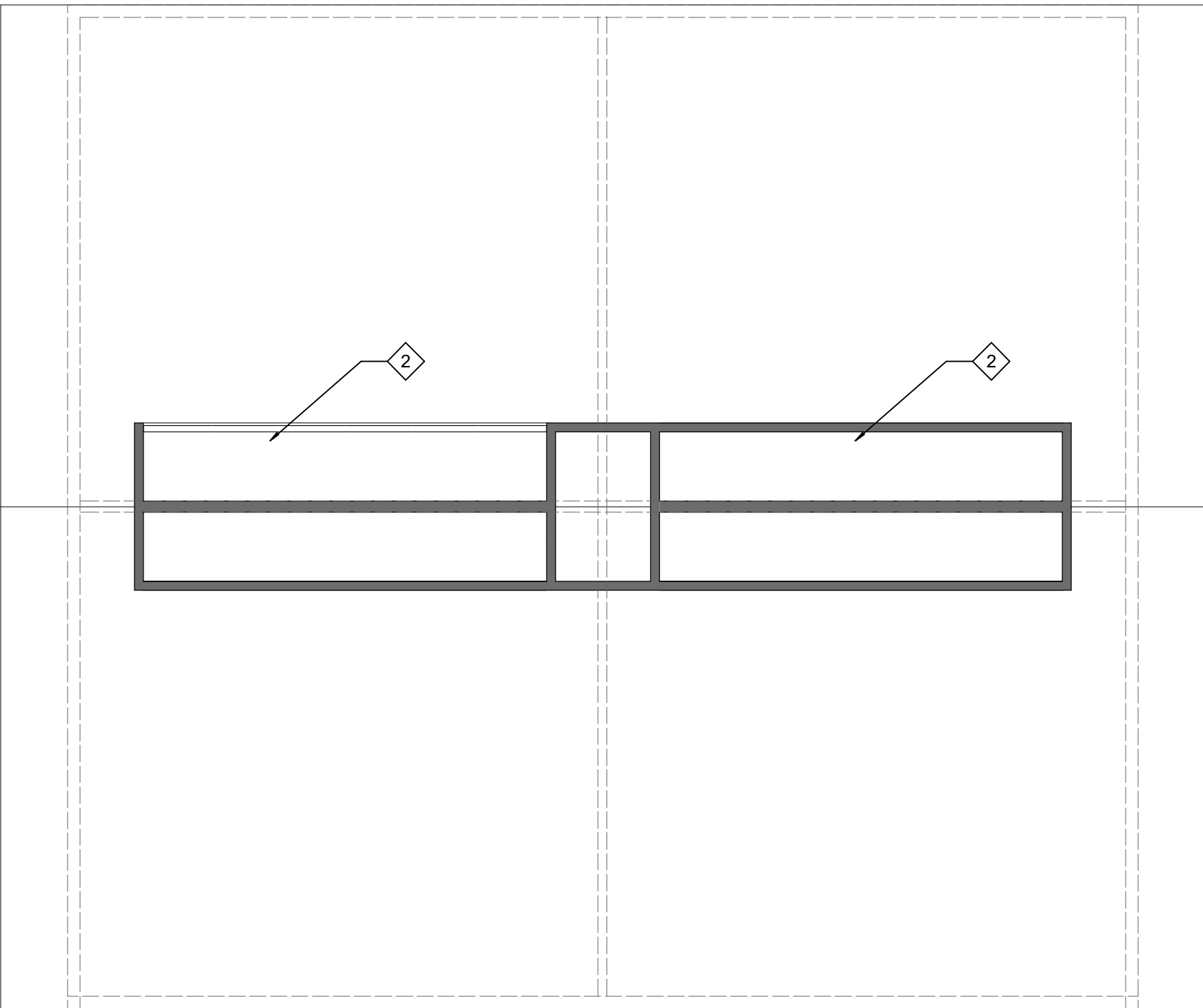
2 BLDG B - ROOF & CLERESTORY PLAN - DEMO
1/8" = 1'-0"



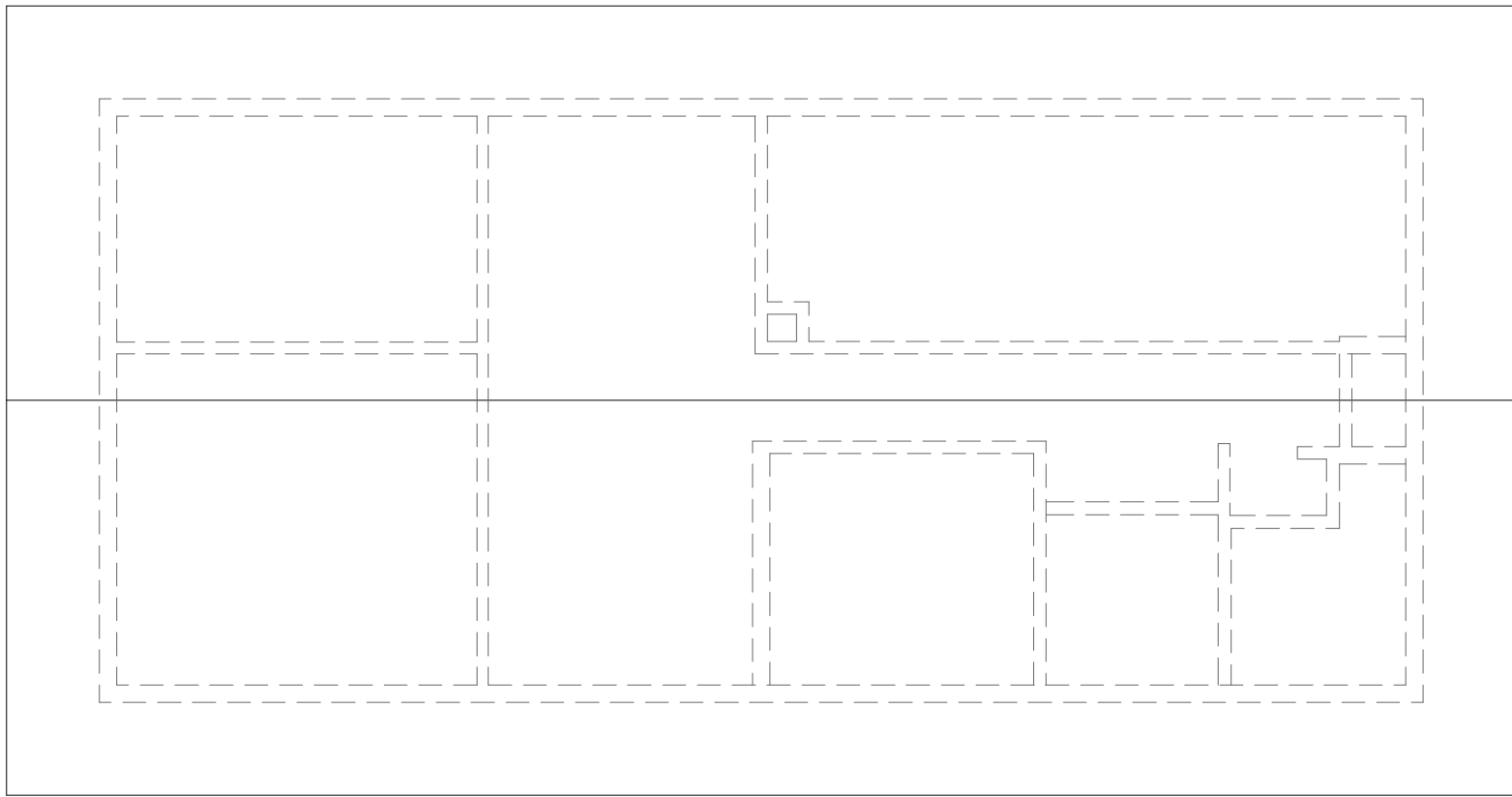
1 BLDG A - ROOF & CLERESTORY PLAN - DEMO
1/8" = 1'-0"



4 BLDG C - ROOF & CLERESTORY PLAN - DEMO
1/8" = 1'-0"



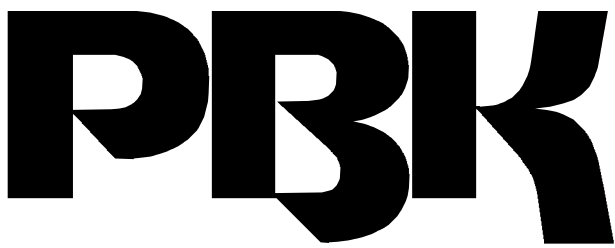
5 BLDG ADMIN - ROOF PLAN - DEMO
1/8" = 1'-0"



KEY NOTES

- 1 REMOVE EXISTING CONDENSING UNIT.
- 2 REMOVE DUCTS IN CLERESTORY AREA THAT ARE UNUSED TO MAKE WAY FOR NEW DUCTWORK.

IDENTIFICATION STAMP
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN

NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RED DAVID HUNG
No. M18155
Exp. 09-30-2024
STATE OF CALIFORNIA

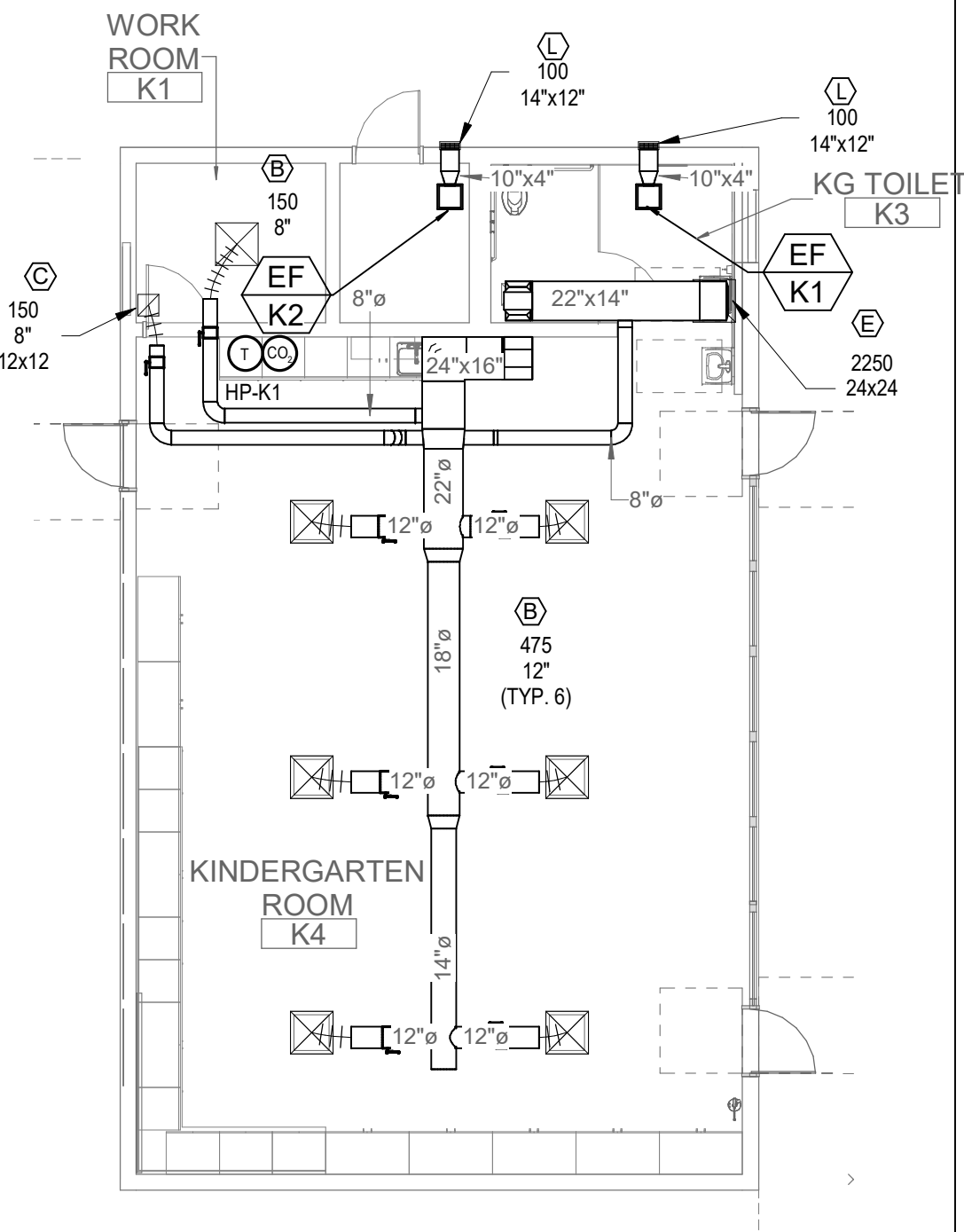
Architect

CLIENT		
WESTMINSTER SCHOOL DISTRICT		PROJECT NUMBER
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04-17-2023		
REVISIONS		
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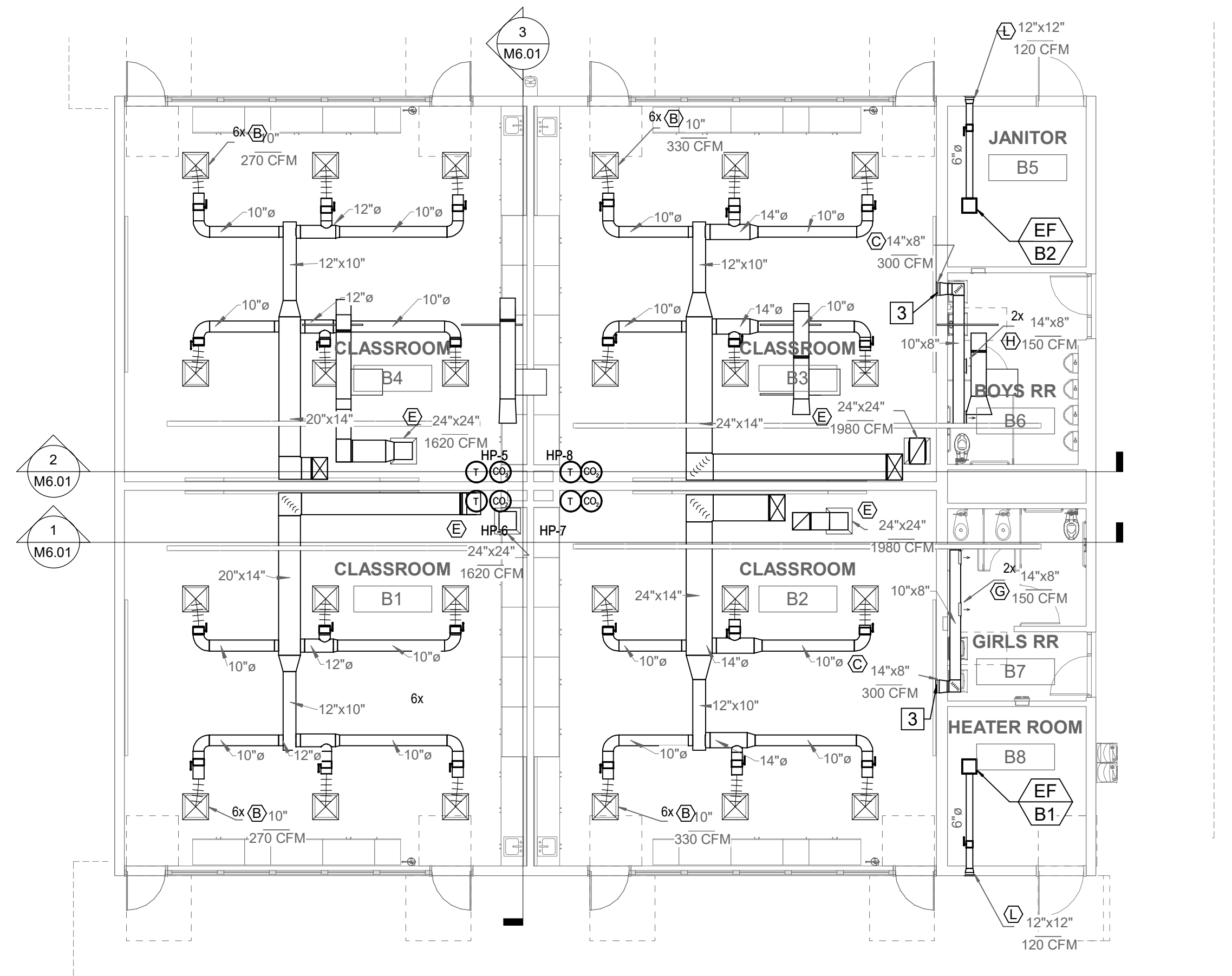
DSA SUBMITTAL

MECHANICAL ROOF PLANS - DEMO

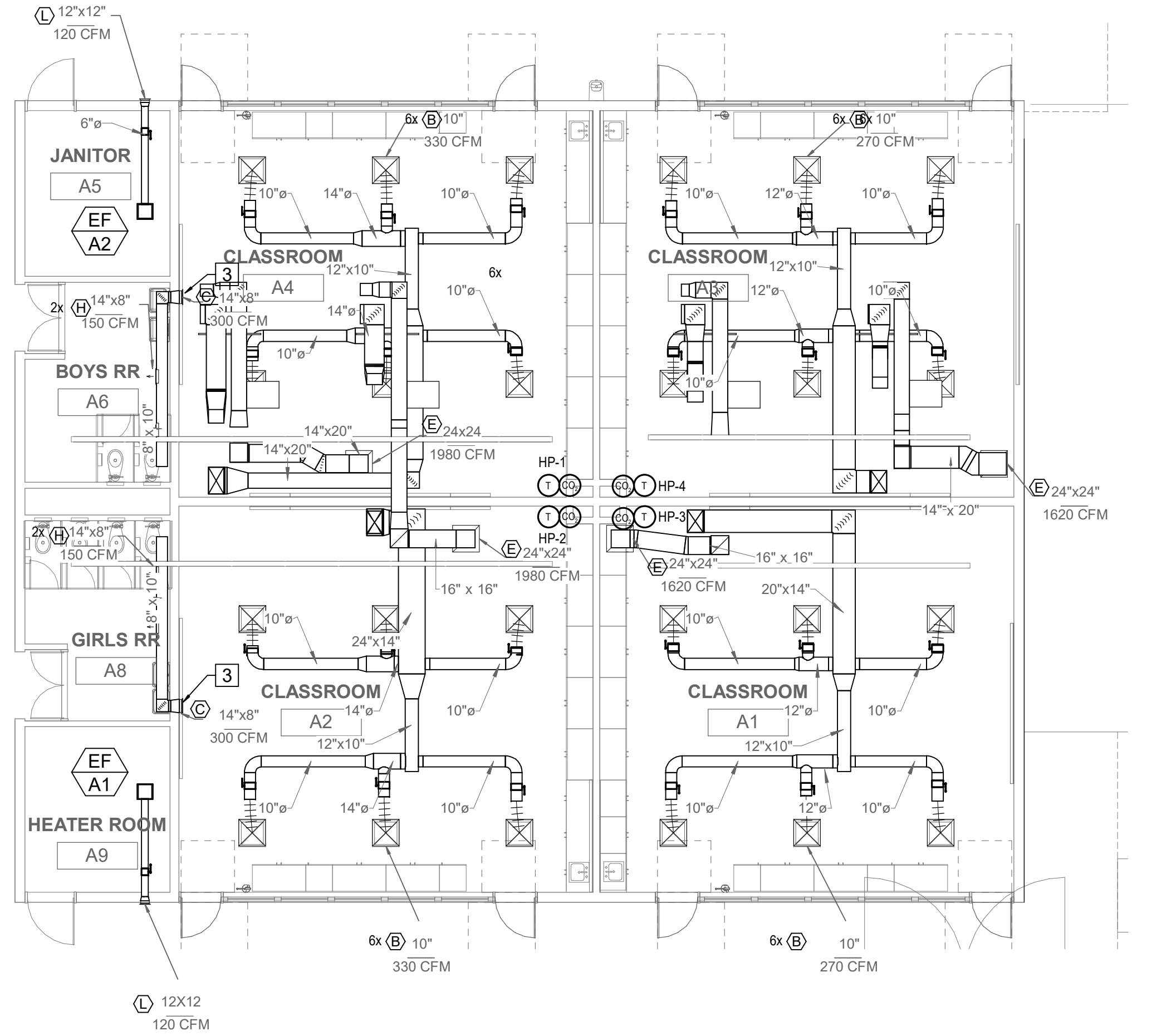
3 BLDG K - FLOOR PLAN
1/8" = 1'-0"



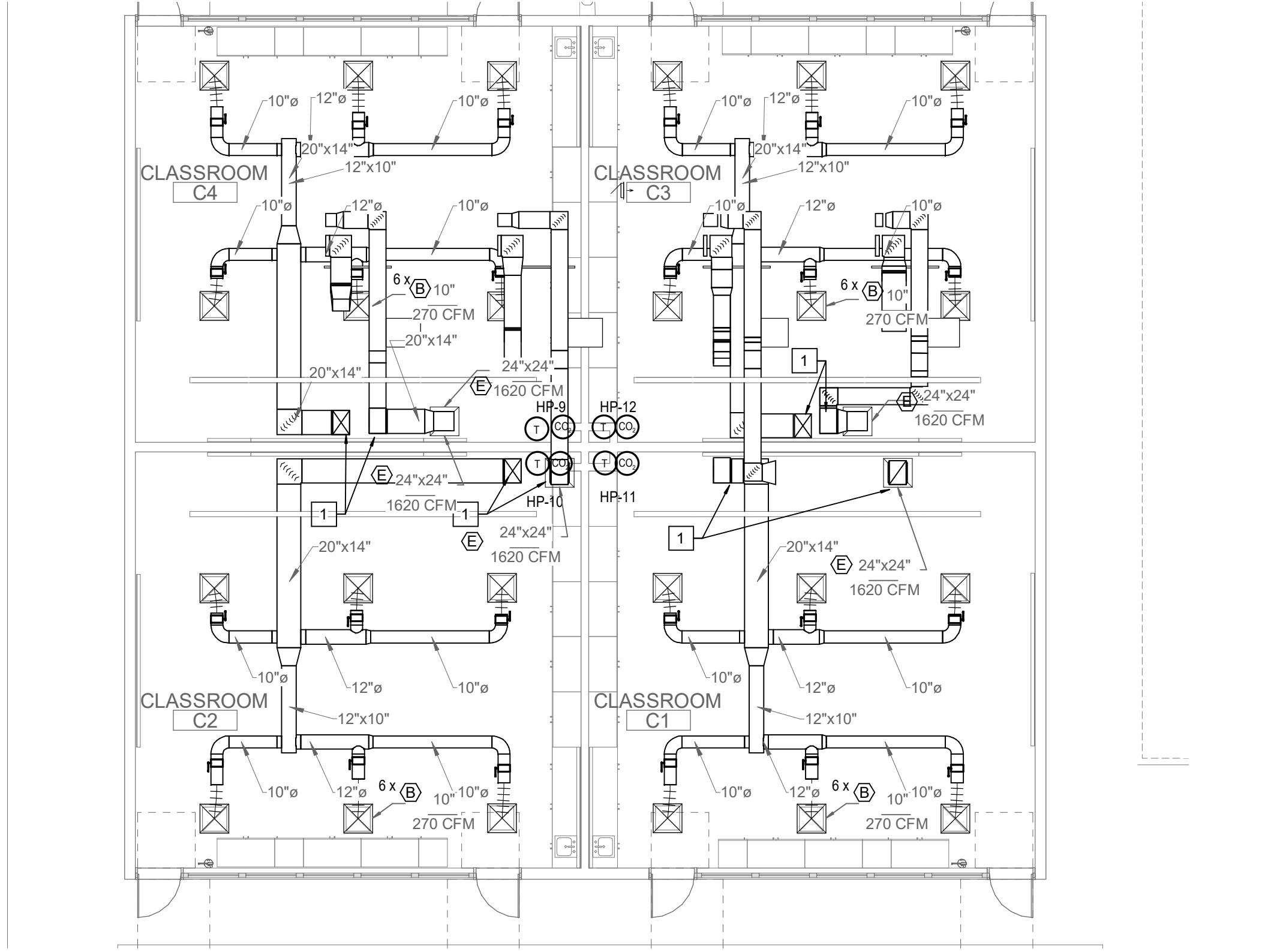
2 BLDG B - FLOOR PLAN
1/8" = 1'-0"



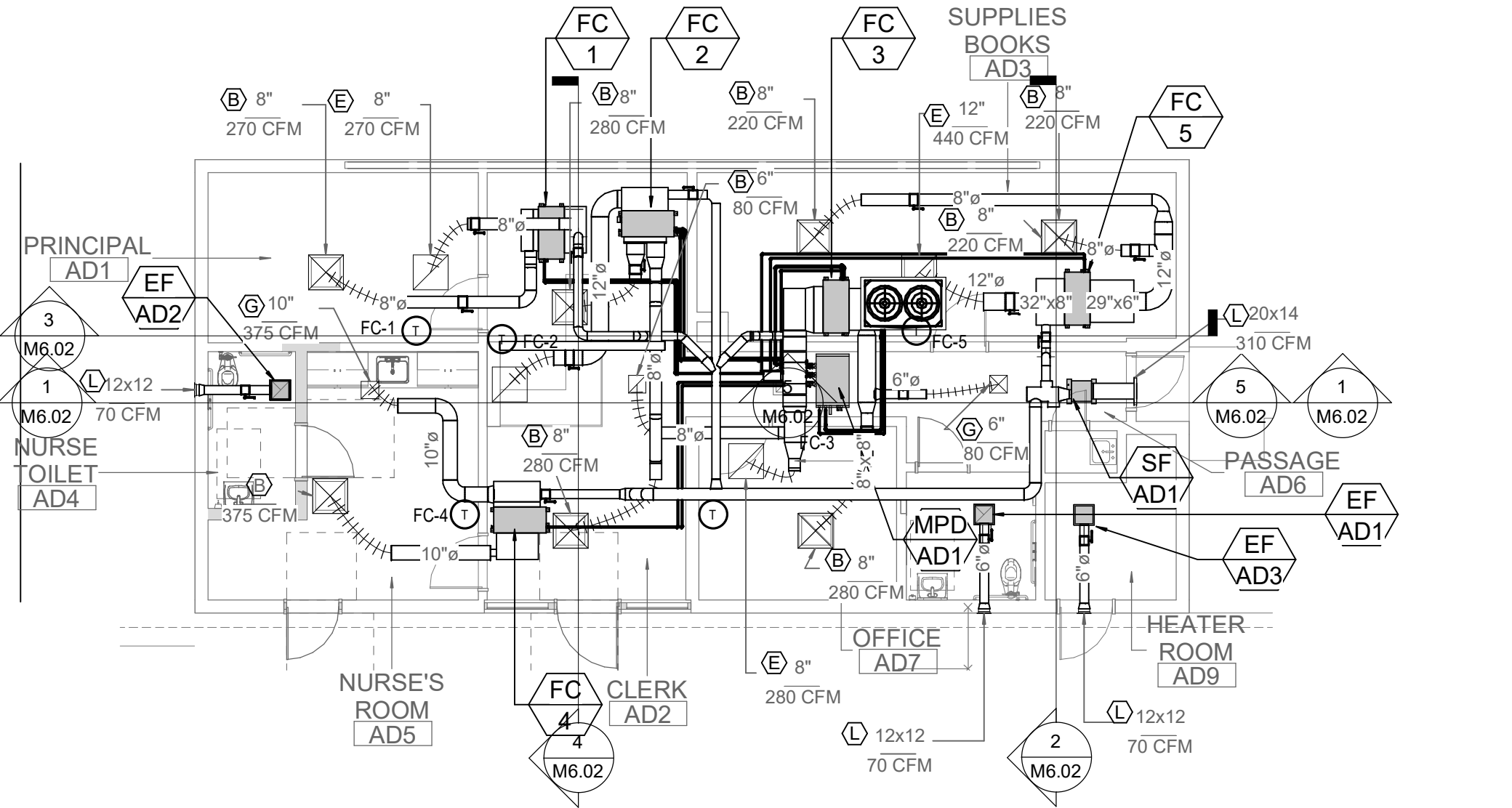
1 BLDG A - FLOOR PLAN
1/8" = 1'-0"



4 BLDG C - FLOOR PLAN
1/8" = 1'-0"



5 BLDG ADMIN - FLOOR PLAN
1/8" = 1'-0"



KEY NOTES

- 1 RUN DUCTWORK DOWN THROUGH NEW FLOOR OF CLERSTORY. RUN ALL DUCTS BETWEEN 24" O.C. JOISTS SO THAT NO STRUCTURAL MEMBERS ARE CUT. PROVIDE FRAMING AROUND OPENING SIMILAR TO DETAIL 19A ON SD3.
- 2 THERMOSTATS SHALL BE LOCATED ON AN INTERIOR WALL. PROVIDE CO2 SENSORS IN EACH CLASSROOM AS SHOWN. REFER TO DETAIL ON M0.00.
- 3 PROVIDE 14"x 8" SIDEWALL TRANSFER AIR GRILLE AND DUCTWORK IN RESTROOMS FOR MAKEUP AIR AND RESIDUAL COOLING OF RESTROOMS. DUCTWORK SHALL BE ACOUSTICALLY LINED. LOCATE DUCT SO THAT NO STUDS ARE CUT.

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PBK
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CONSULTANT LEAF ENGINEERS
LEAF
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
PROJECT ADDRESS:
14142 Howe St
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO. 04-121818 DSA FILE NO. 30-43

E4 E3 E2 E1

D4 D3 D2 D1

F4 F3 F2 F1

C

S

A

MP

AD

PSI

K

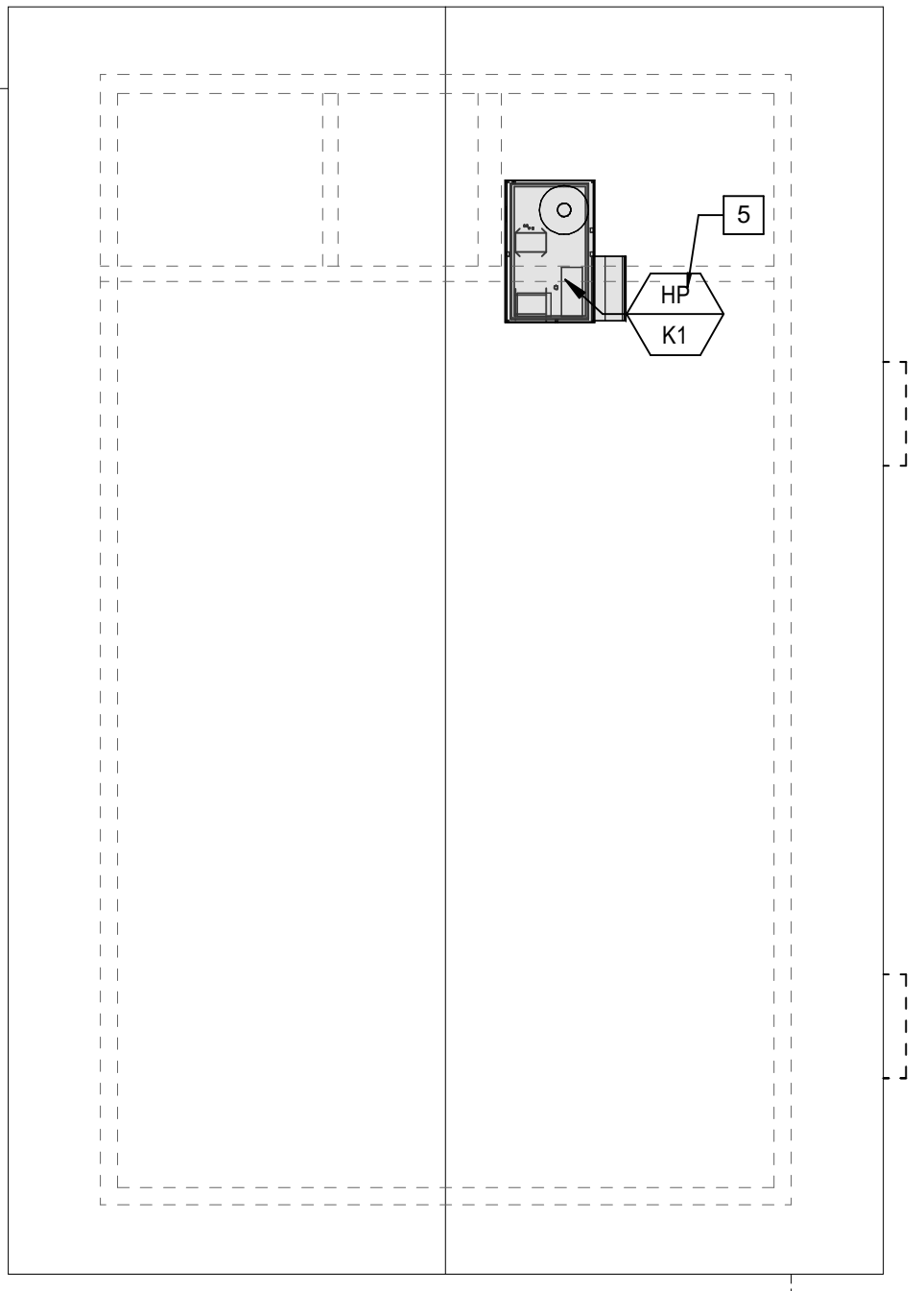
KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER
No. M0155
Exp. 09-30-2024
DAVID WANG
STATE OF CALIFORNIA

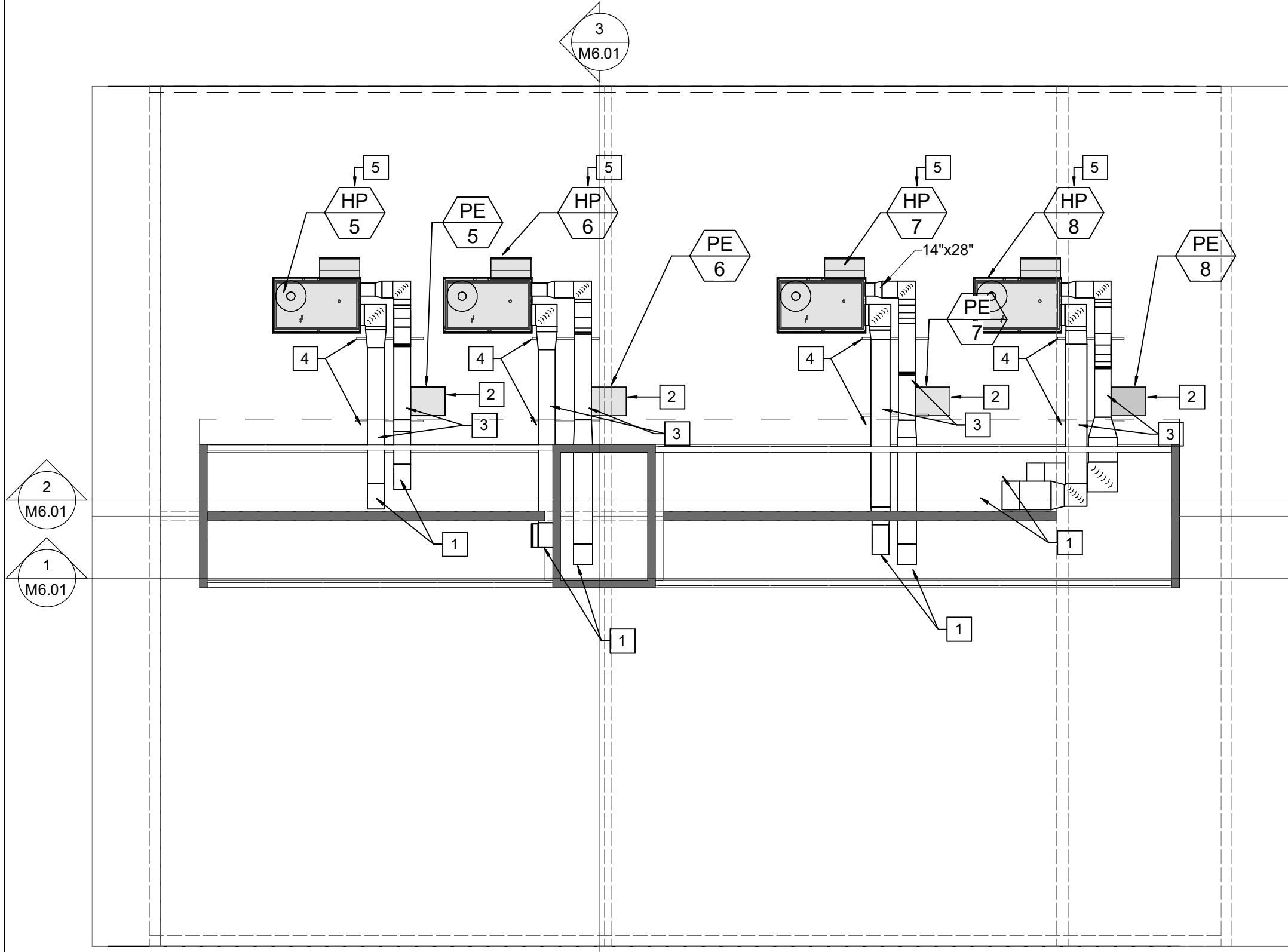
Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 04-17-2023 PROJECT NUMBER 220309
REVISIONS
No. Description Date
DSB SUBMITTAL
MECHANICAL FLOOR PLANS
M2.01

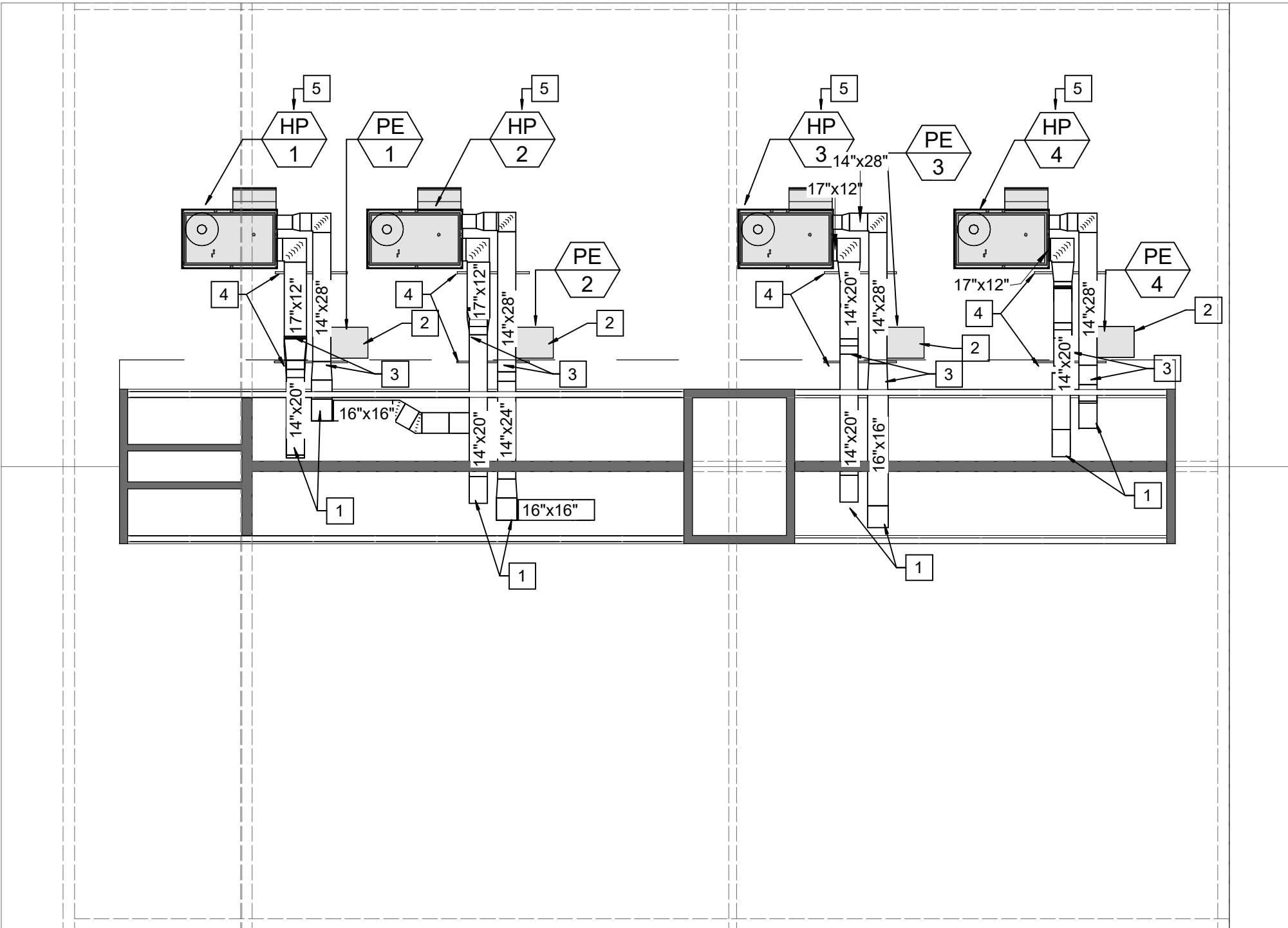
3 BLDG K - ROOF PLAN
1/8" = 1'-0"



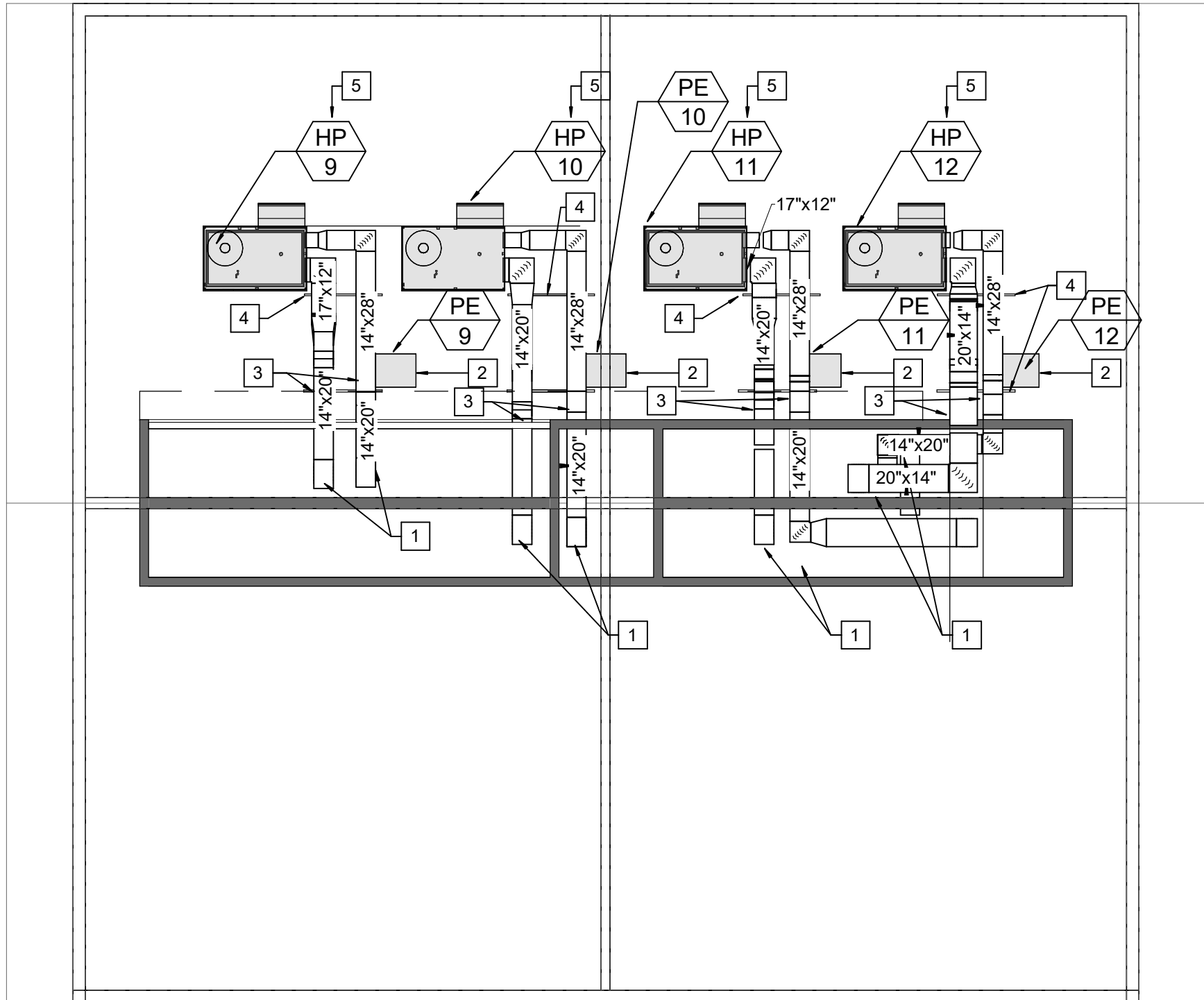
2 BLDG B - ROOF & CLERESTORY PLAN
1/8" = 1'-0"



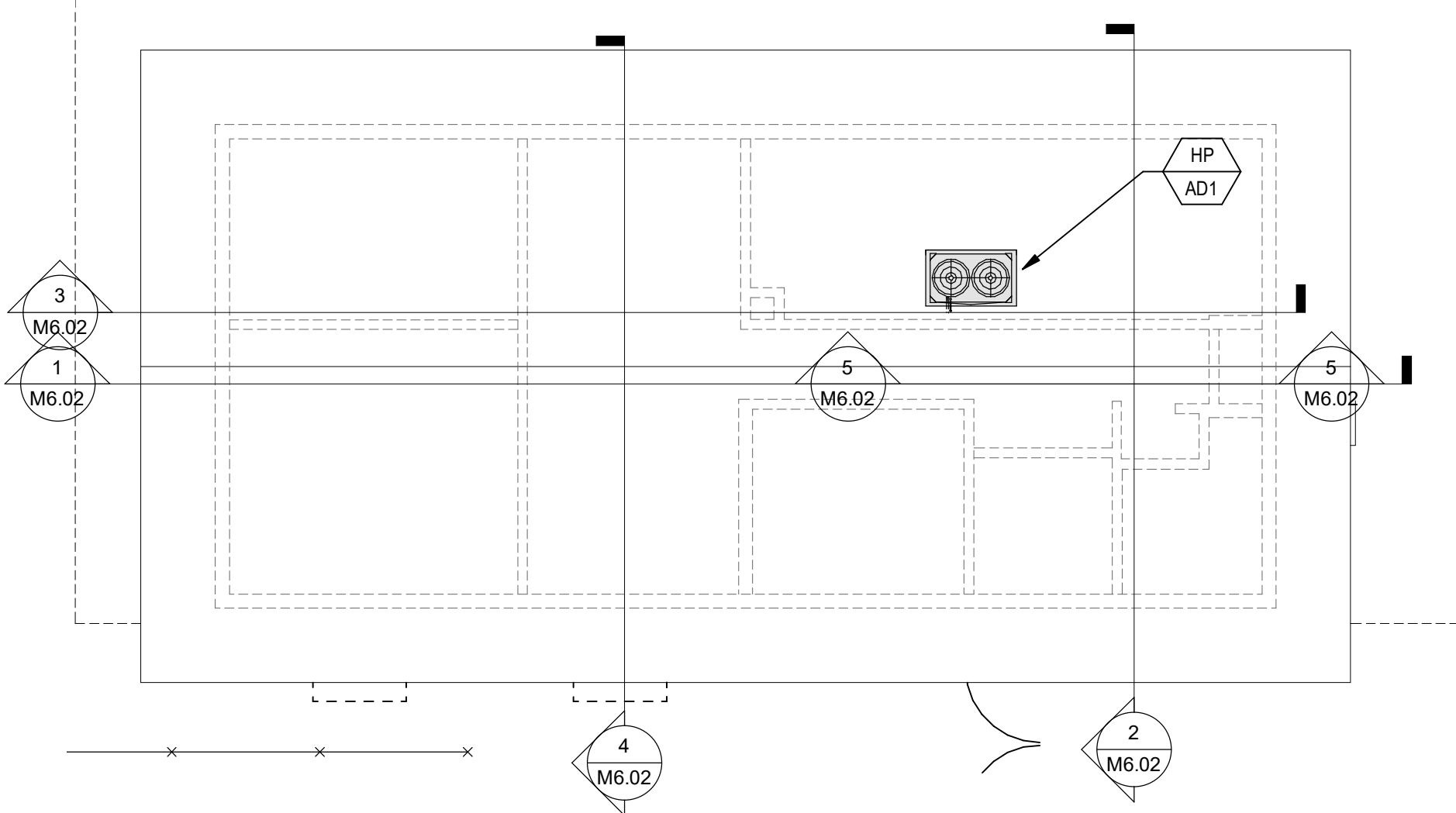
1 BLDG A - ROOF & CLERESTORY PLAN
1/8" = 1'-0"



4 BLDG C - ROOF & CLERESTORY PLAN
1/8" = 1'-0"



5 BLDG ADMIN - ROOF PLAN
1/8" = 1'-0"



KEY NOTES

- 1 RUN DUCTWORK DOWN THROUGH NEW FLOOR OF CLERESTORY. RUN ALL DUCTS BETWEEN 24" O.C. JOISTS SO THAT NO STRUCTURAL MEMBERS ARE CUT. PROVIDE FRAMING AROUND OPENING SIMILAR TO DETAIL 19A ON SD3.
- 2 PROVIDE SUPPORT LEGS UNDER SUPPORT LEGS OF THE POWER EXHAUSTERS. REFER TO DETAIL 17 ON SHEET M5.01 & DETAIL 15 ON SHEET SD2.
- 3 ALL SUPPLY AND RETURN DUCT ABOVE THE ROOF SHALL HAVE 2" INTERNAL INSULATION.
- 4 DUCT SUPPORTS. REFER TO DETAIL 1 ON SHEET M5.05. (TYP.)
- 5 ROOFTOP HEAT PUMP UNITS ON MICROMETL SEISMIC CURBS. REFER TO STRUCTURAL DWGS. FOR ATTACHMENT DETAILS.

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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DSA SUBMITTAL

DSA APP. NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN

Consultant
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DAVID HUNG
No. M18155
Exp. 09-30-2024
STATE OF CALIFORNIA

Architect

CLIENT		
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DSA SUBMITTAL

MECHANICAL ROOF & CLERESTORY PLANS

ROOFTOP PACKAGED AIR CONDITIONING (HEAT PUMP) UNIT SCHEDULE																																																						
UNIT	MANUFACTURER & MODEL NO.	CFM	NOMINAL COOLING TONS	TYPE	ESP (IN. WG)	COOLING CAP (MBH)		EVAP. ENT. AIR TEMP. (°F)		EVAP. LEAV. AIR TEMP. (°F)		ENT. COND. TEMP. (°F)		EER SEER	HEATING CAPACITIES (MBH)		COP		HSPF	INDOOR FAN			COMPRESSOR			UNIT	MAKE & MODEL	POWER EXHAUST					FILTERS (IN.) MERV 13	ROOFTOP UNIT ELECTRICAL							ROOFTOP HP WT. LBS	POWER EXH. & ECONOMIZER BASE WT (LBS)	SEISMIC CURB BASE WT (LBS)	ACCES SORIES OPER WT. (LBS)	TOTAL WT. ALL COMPONENTS LBS	OSA CFM	REMARKS	STRUCTURAL ANCHORAGE DETAIL						
						TOTAL	SENS.	DB	WB	DB	WB	SUMMER			WINTER		TOTAL	INTEGRATED		HIGH TEMP.	LOW TEMP.	NO.	RPM	HP/ BHP	FAN MOTOR FLA.			NO.	RLA	LRA	CFM	HP		FLA	MCA	MOCP	V/PHASE/Hz	MCA	IFM (FLA)	FLA									LRA	POWER (KW/Hz)	UNIT MCA	UNIT MOCP		
												DB	WB		DB	WB																																					DB	WB
CLASSROOM BLDG A																																																						
	CARRIER 50FCQA06	1980	5.0	HORIZONTAL	0.75	63.2	52.5	80	67.0	57.6	56.5	98.0	80.0	39.0	14.3/ 11.8	56.8	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	16	110		MICROMETL 50FCQ A06	1980	1.0	6.4	8.0	14.4	208V/3PH/60HZ	2 in.	29.0	7.2	28.0	124	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA06	1980	5.0	HORIZONTAL	0.75	63.2	52.5	80	67.0	57.6	56.5	98.0	80.0	39.0	14.3/ 11.8	56.8	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	16	110		MICROMETL 50FCQ A06	1980	1.0	6.4	8.0	14.4	208V/3PH/60HZ	2 in.	29.0	7.2	28.0	124	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA05	1620	4.0	HORIZONTAL	0.75	50.8	40.2	80.0	67.0	57.6	57.5	98.0	80.0	39.0	14.3/ 11.8	46.0	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	13.7	83		MICROMETL 50FCQ A05	1600	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	29.0	5.0	29.0	99.0	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA05	1620	4.0	HORIZONTAL	0.75	50.8	40.2	80.0	67.0	57.6	57.5	98.0	80.0	39.0	14.3/ 11.8	46.1	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	13.7	83		MICROMETL 50FCQ A05	1600	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	29.0	5.0	29.0	99.0	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
CLASSROOM BLDG B																																																						
	CARRIER 50FCQA05	1620	4.0	HORIZONTAL	0.75	50.8	40.2	80.0	67.0	57.6	57.5	98.0	80.0	39.0	14.3/ 11.8	46.1	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	13.7	83		MICROMETL 50FCQ A05	1600	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	29.0	5.0	29.0	99.0	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA05	1620	4.0	HORIZONTAL	0.75	50.8	40.2	80.0	67.0	57.6	57.5	98.0	80.0	39.0	14.3/ 11.8	46.1	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	13.7	83		MICROMETL 50FCQ A05	1600	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	29.0	5.0	29.0	99.0	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA06	1980	5.0	HORIZONTAL	0.75	63.2	52.5	80	67.0	57.6	56.5	98.0	80.0	39.0	14.3/ 11.8	56.8	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	16	110		MICROMETL 50FCQ A06	1980	1.0	6.4	8.0	14.4	208V/3PH/60HZ	2 in.	29.0	7.2	28.0	124	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA06	1980	5.0	HORIZONTAL	0.75	63.2	52.5	80	67.0	57.6	56.5	98.0	80.0	39.0	14.3/ 11.8	56.8	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	16	110		MICROMETL 50FCQ A06	1980	1.0	6.4	8.0	14.4	208V/3PH/60HZ	2 in.	29.0	7.2	28.0	124	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
CLASSROOM BLDG C																																																						
	CARRIER 50FCQA05	1600	4.0	HORIZONTAL	0.75	50.8	40.2	80.0	67.0	57.6	57.5	98.0	80.0	39.0	14.3/ 11.8	46.1	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	13.7	83		MICROMETL 50FCQ A05	1600	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	29.0	5.0	29.0	99.0	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA05	1600	4.0	HORIZONTAL	0.75	50.8	40.2	80.0	67.0	57.6	57.5	98.0	80.0	39.0	14.3/ 11.8	46.1	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	13.7	83		MICROMETL 50FCQ A05	1600	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	29.0	5.0	29.0	99.0	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA05	1600	4.0	HORIZONTAL	0.75	50.8	40.2	80.0	67.0	57.6	57.5	98.0	80.0	39.0	14.3/ 11.8	46.1	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	13.7	83		MICROMETL 50FCQ A05	1600	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	29.0	5.0	29.0	99.0	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
	CARRIER 50FCQA05	1600	4.0	HORIZONTAL	0.75	50.8	40.2	80.0	67.0	57.6	57.5	98.0	80.0	39.0	14.3/ 11.8	46.1	50.0	3.8	2.3	8.2	1	1838	1.0/0.66	7.2	1	13.7	83		MICROMETL 50FCQ A05	1600	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	29.0	5.0	29.0	99.0	208V/3PH/60HZ	29.0	40 A	473	225 TOTAL		95	215	1008	400	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
KINDERGARTEN																																																						
	CARRIER 50FCQA07	2400	6.0	VERTICAL	0.75	76.2	63.7	80.0	67.0	57.2	57.2	98.0	80.0	39.0	11.2 EER 15.0 SEER	65.1	56.6	3.6	2.4	NA	1	1838	-0.66	7.8	1	18	136		MICROMETL 50FCQ A05	2400	0.5	3.9	4.9	8.8	208V/3PH/60HZ	2 in.	37.0	7.8	37.0	156	208V/3PH/60HZ	37.0	50 A	489	225 TOTAL		95	215	1124	690	SEE NOTES 1, 2, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16			
<div>NOTES:</div> <div>29</div> <div>1. SCHEDULED LOADS INCLUDE FAN AND MOTOR HEAT.</div> <div>2. PROVIDE ANTI-RECYCLE TIMER, CRANKCASE HEATER, LOW AMBIENT KIT AND HIGH CAPACITY FILTER RACK.</div> <div>3. PROVIDE "MICROMETL" MODULATING ECONOMIZER WITH POWER EXHAUST MOUNTED ON HP-K1. HP UNIT SHALL HAVE DCV CONTROLLED BY CO2 SENSORS.</div> <div>4. PROVIDE WITH LOCKING MESH COVER. POWER EXHAUST SHALL BE PROVIDED WITH A SEPARATE DISCONNECT SWITCH. FIELD WIRED BY ELECTRICAL.</div> <div>5. PROVIDE VIBRATION ISOLATORS.</div> <div>6. BYPASS UNIT ANTI-RECYCLE TIMER WHEN ANTI-RECYCLE FUNCTION IS INCLUDED IN THE THERMOSTAT.</div> <div>7. PROVIDE WITH FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH.</div> <div>8. PROVIDE FACTORY CONDENSER COIL GUARDS.</div> <div>9. PROVIDE T-24 COMPLIANT INTERNET PROGRAMMABLE THERMOSTAT "NT" MODEL X7C WITH DEMAND CONTROL VENTILATION (DCV), CO2 SENSORS AND CONNECT TO EXISTING EMS.</div> <div>10. UNITS SHALL HAVE DUCT FLEX CONNECTIONS INSTALLED WITHIN ROOF CURB.</div> <div>11. ALL HP UNITS SHALL HAVE R-410A REFRIGERANT.</div> <div>12. PROVIDE WITH FACTORY MOUNTED NON-POWERED CONVENIENCE OUTLET.</div> <div>13. UNIT SHALL BE INSTALLED ON A LEVELED PLATFORM.</div> <div>14. UNITS SHALL BE INSTALLED ON LEVEL MICROMETL SEISMIC CURBS. REFER TO DETAILS 2 ON SHEET M5.05 AND DETAIL 16 ON SHEET M5.01.</div> <div>15. UNIT SHALL HAVE DUCT FLEX CONNECTIONS INSTALLED ON THE DISCHARGE AND INTAKE SIDES OF THE UNIT.</div> <div>16. PROVIDE "MICROMETL" POWER EXHAUST TO BE INSTALLED ON RETURN AIR DUCT. POWER EXHAUST SHALL BE PROVIDED WITH A SEPARATE DISCONNECT SWITCH. FIELD WIRED BY ELECTRICAL.</div> <div>17. PROVIDE FACTORY MODULATING ECONOMIZER. HP UNIT SHALL HAVE CO2 CONTROL. PROVIDE WITH LOCKING MESH COVER.</div>																																																						

0"
1"

AIR DISTRIBUTION SCHEDULE				
SYMBOL	TYPE	MAKE & MODEL	DESCRIPTION	REMARKS
A	CEILING SUPPLY	PRICE MODEL SPD	SQUARE PLAQUE DIFFUSER WITH FRAME FOR SURFACE MOUNTING IN HARD CEILING. FLUSH FACE MOUNTING.	NOTES 1, 2, 3.
B	CEILING SUPPLY	PRICE MODEL SPD	SQUARE PLAQUE DIFFUSER. T-BAR MOUNTING. FLUSH FACE MOUNTING.	NOTES 1, 2, 3.
C	SIDEWALL RETURN	PRICE MODEL 535L	LOUVERED RETURN GRILL WITH FIXED BLADES AT 45 DEGREES, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING.	NOTES 1, 3.
D	CEILING EXHAUST	PRICE MODEL 535L	LOUVERED EXHAUST GRILL WITH FIXED BLADES AT 45 DEGREES, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING.	NOTES 1, 3.
E	CEILING RETURN	PRICE MODEL 535L	LOUVERED RETURN GRILL WITH FIXED BLADES AT 45 DEGREES, RAPID MOUNT FRAME MODEL TRIM FOR T-BAR MOUNTING.	NOTES 1, 3.
F	DUCT MOUNTED SUPPLY	PRICE MODEL SDG	SPIRAL DUCT SUPPLY GRILLE. MOUNTED DIRECTLY ON ROUND OR SPIRAL DUCTS, AT 45 DEGREES FROM HORIZONTAL. DOUBLE DEFLECTION WITH FRONT BLADES HORIZONTAL TO THE FLOOR.	NOTES 1, 2, 3.
G	CEILING RETURN	PRICE MODEL 535L	LOUVERED RETURN GRILL WITH FIXED BLADES AT 45 DEGREES, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING.	NOTES 1, 3.
H	SIDEWALL SUPPLY	PRICE MODEL	DOUBLE DEFLECTION SUPPLY, SURFACE MOUNTING. FLUSH FACE MOUNTING.	NOTES 1, 3.
L	EXHAUST LOUVER	PRICE MODEL	LOUVERED EXHAUST GRILL WITH FIXED BLADES, BIRD SCREEN, SURFACE MOUNT, 50% MIN. FREE AREA. 4" THICK.	NOTES 1, 3.
L	LOUVER	GREENHECK MODEL ESD-435	EXTRUDED ALUMINUM LOUVER, C/W BIRDSCREEN, MOUNTING FLANGES, PRIME COATED.	NOTES 1, 3, 4.
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°. 3. ARCHITECT TO SELECT COLOR ON SUBMITTALS. 4. PROVIDE 2" FILTERS (MERV 13) IN INLET LOUVER TO SF-A1 IN ADMINISTRATION BLDG.				

FAN SCHEDULE														
UNIT	MANUFACTURER & MODEL NO.	SERVICE	TYPE	CFM	SP IN W.G.	FAN RPM	MOTOR					SONES	OPER. WT. (LBS)	REMARKS
							WATTS	FLA	VOLT	PH	HZ			
EF A1	GREENHECK SP-A90-130-VG	CLASSROOM BLDG A HEATER ROOM	CEILING/SUSPENDED	120	0.25	1091	15	0.29	115	1	60	2.0	15	NOTES 2, 4, 6
EF A2	GREENHECK SP-A90-130-VG	CLASSROOM BLDG A JANITOR ROOM	CEILING/SUSPENDED	120	0.25	1091	15	0.29	115	1	60	2.0	15	NOTES 1, 2, 4, 8
EF B1	GREENHECK SP-A90-130-VG	CLASSROOM BLDG B HEATER ROOM	CEILING/SUSPENDED	120	0.25	1091	15	0.29	115	1	60	2.0	15	NOTES 2, 4, 6
EF B2	GREENHECK SP-A90-130-VG	CLASSROOM BLDG B JANITOR ROOM	CEILING/SUSPENDED	120	0.25	1091	15	0.29	115	1	60	2.0	15	NOTES 1, 2, 4, 8
EF K-1	GREENHECK SP-A90-130-VG	KINDERGARTEN BOYS & GIRLS RR	CEILING/SUSPENDED	120	0.25	1091	15	0.29	115	1	60	2.0	15	NOTES 1, 2, 4
EF K-2	GREENHECK SP-A90-130-VG	KINDERGARTEN MECHANICAL RM.	CEILING/SUSPENDED	120	0.25	1091	15	0.29	115	1	60	2.0	15	NOTES 2, 4, 6
EF AD1	GREENHECK SP-A90	ADMINISTRATION TOILET ROOM	CEILING/SUSPENDED	70	0.25	900	12	0.17	115	1	60	0.5	15	NOTES 2, 4, 6, 7
EF AD2	GREENHECK SP-A90	ADMINISTRATION NURSE RR	CEILING/SUSPENDED	70	0.25	900	12	0.17	115	1	60	0.5	15	NOTES 2, 4, 6, 7
EF AD3	GREENHECK SP-A90-130-VG	ADMINISTRATION HEATER ROOM	CEILING/SUSPENDED	120	0.25	1091	15	0.29	115	1	60	2.0	15	NOTES 1, 2, 3, 4, 5, 8
SF AD1	GREENHECK SP-A90-130-VG	ADMINISTRATION VENTILATION FAN	CEILING/SUSPENDED	310	0.65	1498	86	1.5	115	1	60	2.5	24	NOTES 1, 2, 3, 4, 5
NOTES: 1. FAN SHALL OPERATE ON A TIME CLOCK SCHEDULE PROVIDED BY THE SCHOOL DISTRICT. 2. PROVIDE BACKDRAFT DAMPER FOR ALL FANS. 3. INTERLOCK SUPPLY FAN WITH ALL FAN COIL UNITS SERVING ADMIN. AREA. 4. PROVIDED FACTORY SOLID STATE CONTROLLER MOUNTED WITHIN THE FAN'S CASING. 5. PROVIDE WITH MERV 13 FILTERS. 6. OPERATED BY COOLING THERMOSTAT WITH A TIMED OVERRIDE. 7. CONTROLLED BY LIGHT SWITCH WITH TIME DELAY SWITCH GREENHECK PRODUCT #874214 8. CONTROLLED BY ON/OFF WALL SWITCH.														

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 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

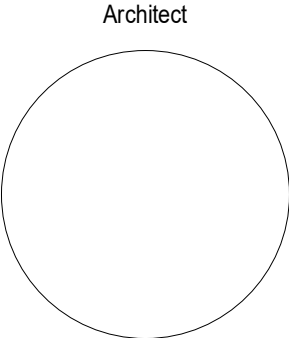
CONSULTANT
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909-957-0909
leafengineers.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL


DSA APP. NO. 04-121818 DSA FILE NO. 30-43



CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE		PROJECT NUMBER
04-17-2023		220309
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

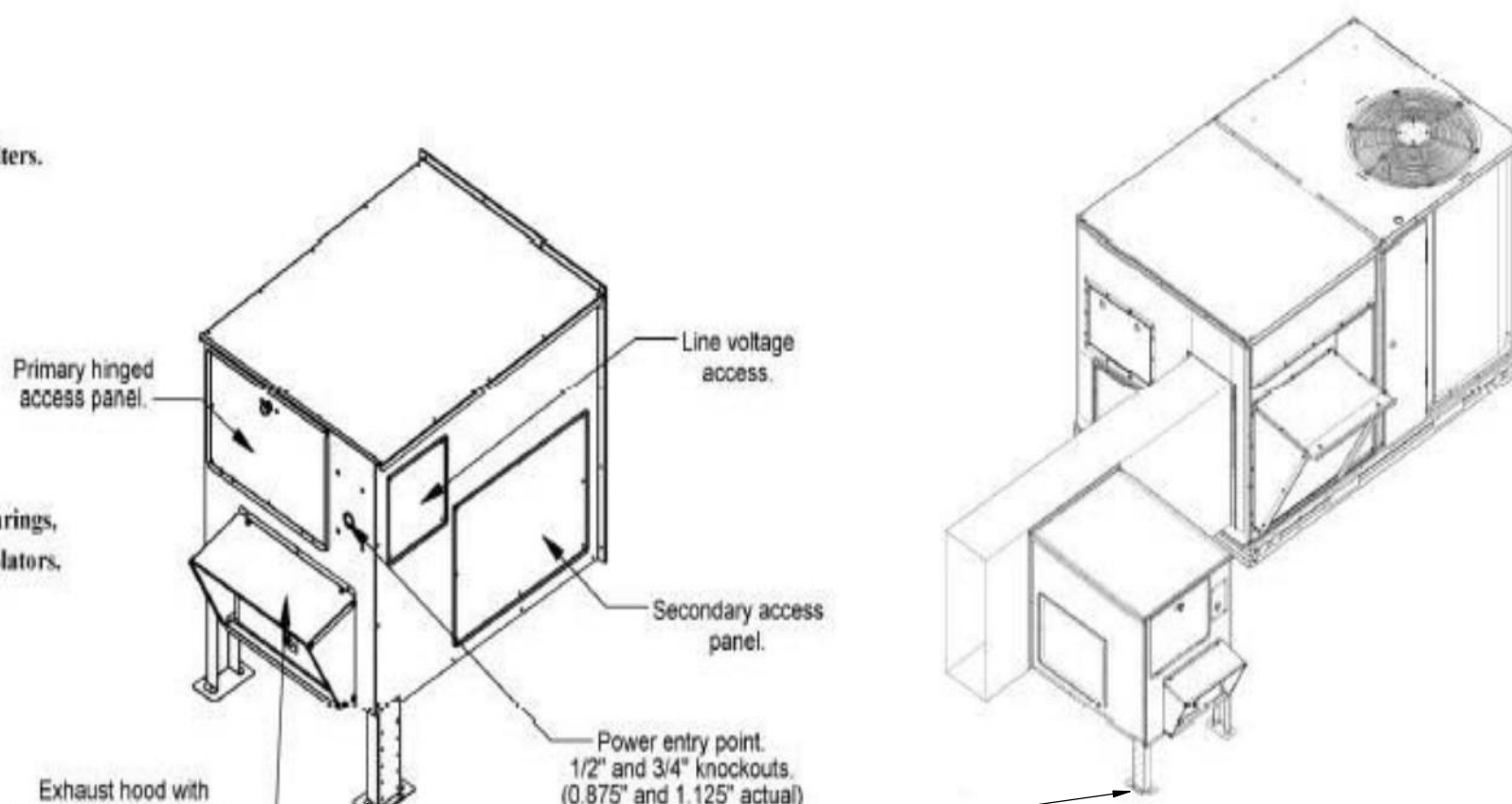
MECHANICAL SCHEDULES

	Date: 4/12/2023	Weights: 225lbs/102.06kg	Units:	50FCX A05	Part Number: PECH-SRT12CB-D2EH-2L1
	Submitted To: guest@micromet.com		Job:		Notes:

Economizer & Power Exhaust Combination Package, Genesis Ultra Low Leak Horizontal with Honeywell Jade W7220 Single/Multiple Speed Electromechanical Controller, Honeywell Actuator, Enthalpy Sensor, 208-230 Volt Three Phase, Modulating, Designed To Operate At 2675 CFM @ 1/2" - 1 HP. Power Exhaust Painted To Match RTU. All Necessary Panels And Hardware Included. Electrical junction box provided. High voltage cable to be field supplied and installed. Power Exhaust VFD is BacNet Compatible. For Differential sensor please order 9901-2022-DIFF JC2..

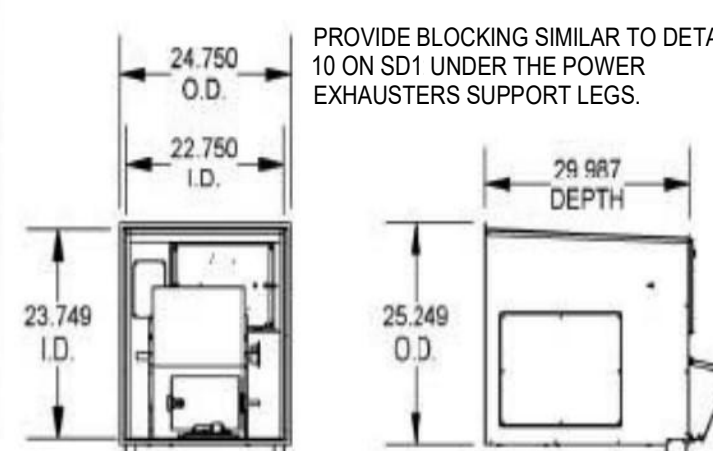
FEATURES:

- Includes ECH-SRT12CB series economizer.
- External gear driven damper with roll formed blades.
- Designed for horizontal applications only.
- Factory assembled rain hood, with aluminum wire strainment filters.
- Filter access door supplied with RTU.
- Hinged filter access door is NOT currently available.
- Rain hood is sloped for water run off.
- All harnesses and plugs needed are supplied.
- Economizer is class 1A & AMCA certified.
- Relief blades are AMCA certified.
- Uses filter rack with unit.
- Field supplied and installed disconnect is required.
- Blower is forward curved, double inlet, with pre-lubricated ball bearings, have a dynamically balanced wheel, and are mounted on rubber isolators.
- Thermally protected motors.
- Adjustable motor pulleys.
- Ships with adjustable legs - 8" - 14".
- See page 2 for PE performance and electrical data.

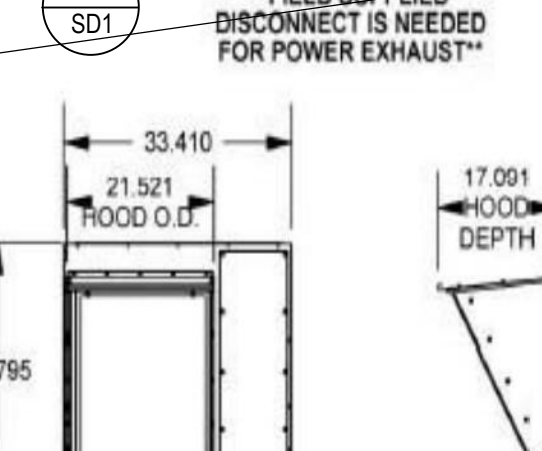



10 SDT

****FIELD SUPPLIED DISCONNECT IS NEEDED FOR POWER EXHAUST****



PROVIDE BLOCKING SIMILAR TO DETAIL 10 ON SDT UNDER THE POWER EXHAUSTERS SUPPORT LEGS.





AIR PERFORMANCE


AIR INTAKE

AIR EXHAUST

AIR OVERHEAD/UNDERHEAD RATIO

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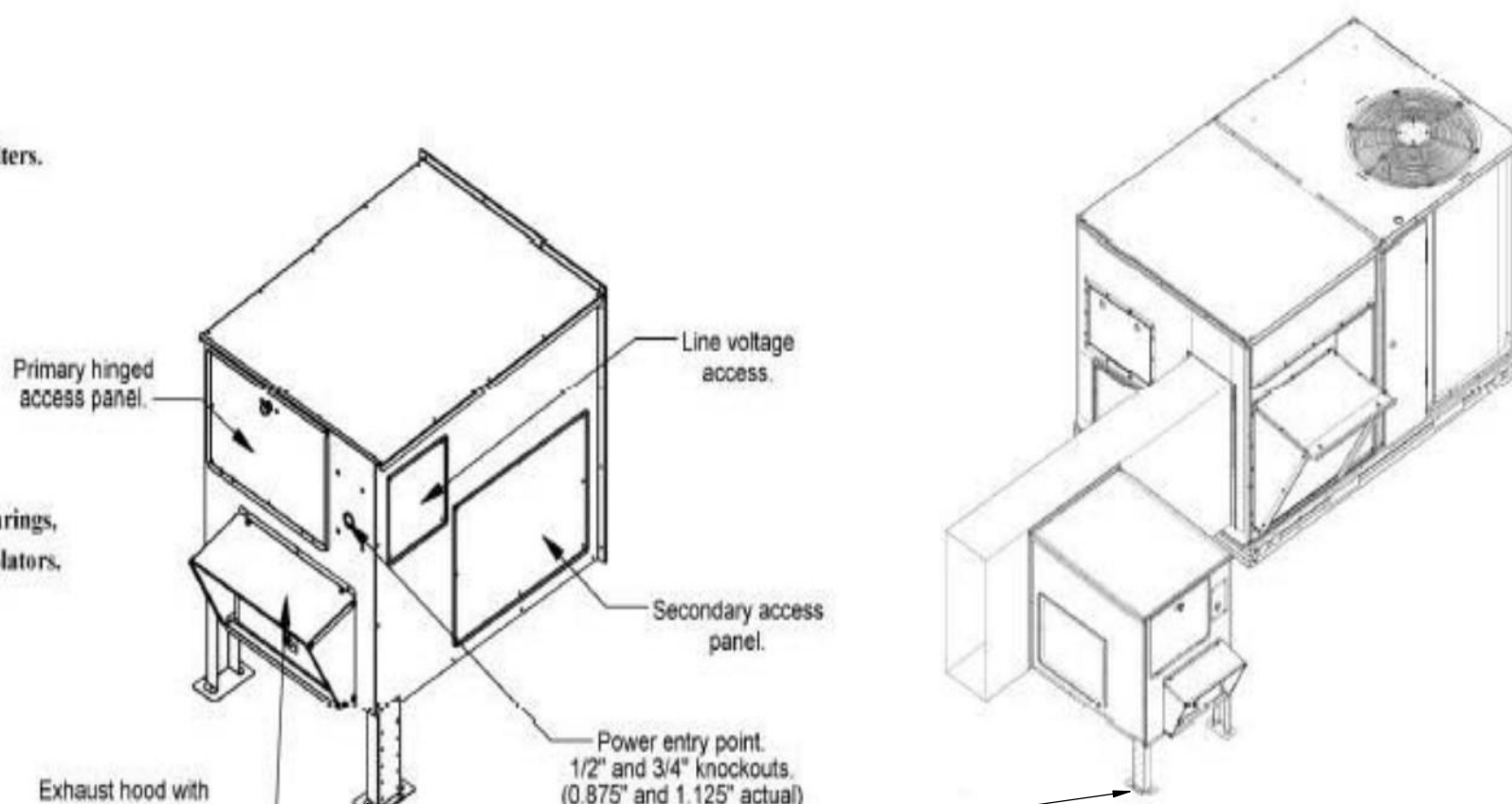
Indianapolis, 3035 N. Shadeland Ave., Indianapolis, IN 46226, 800.MMC.HVAC • Sparks, 905 Southern Way, Sparks, NV 89431, 800.884.4MMC • Longview, 201 Kodak Blvd., Longview, TX 75602, 903.248.4800

	Date: 4/12/2023	Weights: 225lbs/102.06kg	Units:	50FCX A05	Part Number: PECH-SRT12CB-D2EH-2L1
	Submitted To: guest@micromet.com		Job:		Notes:

Economizer & Power Exhaust Combination Package, Genesis Ultra Low Leak Horizontal with Honeywell Jade W7220 Single/Multiple Speed Electromechanical Controller, Honeywell Actuator, Enthalpy Sensor, 208-230 Volt Three Phase, Modulating, Designed To Operate At 2675 CFM @ 1/2" - 1 HP. Power Exhaust Painted To Match RTU. All Necessary Panels And Hardware Included. Electrical junction box provided. High voltage cable to be field supplied and installed. Power Exhaust VFD is BacNet Compatible. For Differential sensor please order 9901-2022-DIFF JC2..

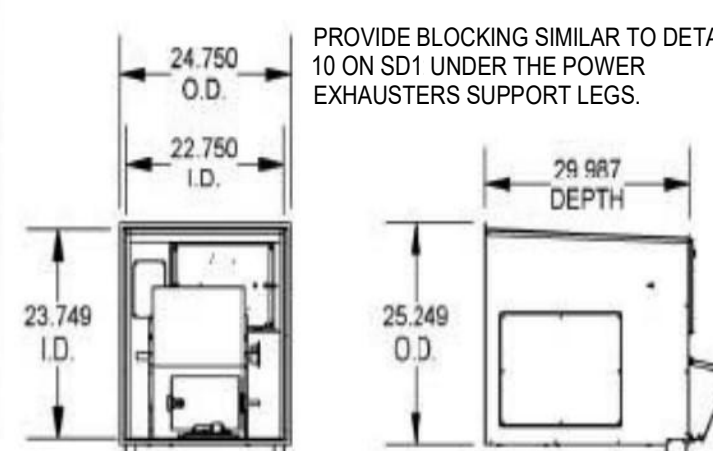
FEATURES:

- Includes ECH-SRT12CB series economizer.
- External gear driven damper with roll formed blades.
- Designed for horizontal applications only.
- Factory assembled rain hood, with aluminum wire strainment filters.
- Filter access door supplied with RTU.
- Hinged filter access door is NOT currently available.
- Rain hood is sloped for water run off.
- All harnesses and plugs needed are supplied.
- Economizer is class 1A & AMCA certified.
- Relief blades are AMCA certified.
- Uses filter rack with unit.
- Field supplied and installed disconnect is required.
- Blower is forward curved, double inlet, with pre-lubricated ball bearings, have a dynamically balanced wheel, and are mounted on rubber isolators.
- Thermally protected motors.
- Adjustable motor pulleys.
- Ships with adjustable legs - 8" - 14".
- See page 2 for PE performance and electrical data.

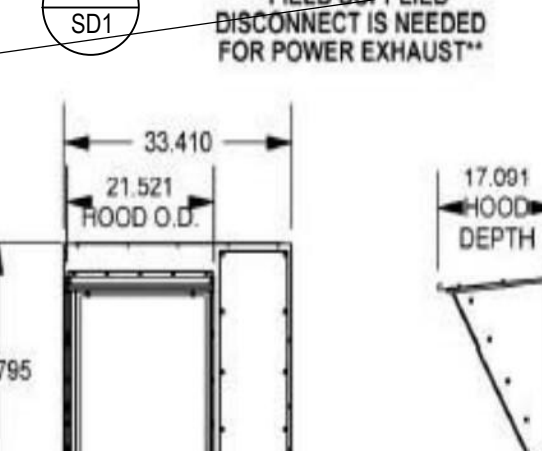



10 SDT

****FIELD SUPPLIED DISCONNECT IS NEEDED FOR POWER EXHAUST****



PROVIDE BLOCKING SIMILAR TO DETAIL 10 ON SDT UNDER THE POWER EXHAUSTERS SUPPORT LEGS.





AIR PERFORMANCE

AIR INTAKE


AIR EXHAUST

AIR OVERHEAD/UNDERHEAD RATIO


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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-121818 INC. REVIEWED FOR <input checked="" type="checkbox"/> SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: 08/11/2023		
<div>PBK</div>		
ARCHITECT	PBK Architects, Inc. COSTA MESA 600 Anton Boulevard, Suite 1375 Costa Mesa, CA 92626 P 949-548-5000 PBK.com	
CONSULTANT	LEAF ENGINEERS 8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909-987-0909 leafengineers.com	
<div>WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION</div> <div>PROJECT ADDRESS: 14142 Hoover St Westminster, CA 92683</div> <div>DSA SUBMITTAL</div> <div>DSA FILE NO.: 30-43</div> <div>DSA APP. NO.: 04-121818</div>		
Consultant		
Architect		
CLIENT WESTMINSTER SCHOOL DISTRICT		
DATE 04-17-2023		PROJECT NUMBER 220309
REVISIONS		
No.	Description	Date
DSA SUBMITTAL		
MECHANICAL DETAILS		
M5.01		

ARCHITECT		
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP-04-121818 INC. REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: 08/11/2023		
PBK		
COSTA MESA 600 Anton Boulevard, Suite 1375 Costa Mesa, CA 92626 P 949-548-5000 <small>PBK.COM</small>		
CONSULTANT		
 LEAF ENGINEERS 8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909-987-0909 leafengineers.com		
<div style="float: left; width: 30%;">WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION</div> <div style="clear: both;"></div> <div style="float: right; width: 30%; text-align: right;">PROJECT ADDRESS: 14142 Hoover St. Westminster, CA 92683</div> <div style="clear: both;"></div> <div style="float: right; width: 30%; text-align: right;">DSA SUBMITTAL</div> <div style="clear: both;"></div>		
DSA FILE NO.: 30-43 DSA APP. NO.: 04-121818		

Consultant



Architect



CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
04-17-2023	220309	
REVISIONS		
No.	Description	Date
DSA SUBMITTAL		
MECHANICAL DETAILS		

M5.01

CABLE BRACING SYSTEM - TRAPEZE HUNG DUCT - TRANSVERSE

30 PLF MAX (3/8"Ø CABLE)

SEE STRUCTURAL
DETAIL 4503 FOR
DETAIL TO
STRUCTURE

PLAN VIEW

1" MAX SEE DWG 4.2 & 4.3

ANGLE OF CABLE "α"

ROD STIFFENER CLAMPS RS-1

1 3/8" x 1/2" x 12GA STRUT CHANNEL

PLAN VIEW

8" TYP

1/2"Ø HOLE THRU BOT. OF STRUT CHANNEL FOR ROD

MIN. (3) #12 TIE SCREWS @ EA. CORNER W/ 3/8" SPACING & (1) @ MIN. 8" O.C. ALL OTHER PLACES SEE NOTE #6

1/2"Ø THREADED ROD

2" MAX

SEE NOTE #7

1/2"Ø CABLE

DUCT

HVY NUT & MIN. 3/4" A36 1/2" x 1/2" x 1/2" WASHER

TOP & BOT. INSTALLED

SMUG TIGHT TO TOP TYP.

STEEL TRAPEZE TOP & BOTTOM, SEE TABLE 1 ON PAGE 2.79

1/2"Ø DUCT

1/2" CABLE

#12 TIE SCREW TYP SEE NOTE #8

TYPICAL ELEVATION VIEW

DATE: 05/17/2016

1" MAX

3/4" TYP

TYPICAL PLAN VIEW

5" MAX

5" MAX

TABLE 1: CABLE CAPACITIES (HORIZ. - LRFD)

ANGLE OF LOAD (α)	MAX. HORIZ. LOAD (L)	MAX. CABLE TENSION
30° < α < 45°	547	1095
45° < α < 60°	1001	1411
60° = α	1316	1520
60° < α < 70°	1361	1449

NOTES:

- CABLE IS 7 X 19 GALVANIZED STEEL CABLE. SEE PG. 4-5
- CABLES TO BE INSTALLED TIGHT W/ NO SLACK. CAUTION - CABLE MUST NOT SUSTAIN ANY DEAD LOAD.
- SEE PAGE 4 & 8 FOR FOD FORM STRUCTURE DETAIL & REQUIREMENTS
- SEE PAGE 4 FOR BRACKET - SLU-34 AND SLOTTED WASHER - SLW-34 DETAIL
- ROD STIFFENER CLAMPS RS-1
- TEKS SCREWS MUST BE PER ECR-1076
- ROD SHALL COVER THE ECCENTRIC LOAD DISTRIBUTION WHEN DETERMINING THE F_t VALUE USED IN THE DESIGN
- USE SHORTEST JAG POSSIBLE WHEN PENETRATING OUTCROWT TO MINIMIZE AIRFLOW NOISE RIDGE THE DUCT (ITEM 440)

TABLE 2: CABLE CAPACITIES (HORIZ. - LRFD)

ANGLE OF LOAD (α)	MAX. HORIZ. LOAD (L)	MAX. CABLE TENSION
30° < α < 45°	547	1095
45° < α < 60°	1001	1411
60° = α	1316	1520
60° < α < 70°	1361	1449

NOTES:

- USE 45° TO 60° FOR USE WITH DESIGN TABLES IN SECTION D (SIMPLIFIED DESIGN)
- USE THE CABLE TENSION FOR SELECTION OF THE CABLE ATTACHMENT TO THE STRUCTURE
- ANGLE OF CABLE MUST NOT EXCEED 70° FOR CAPACITIES TO BE VALID.

DUCT BRACING KIT 1-DIBC-38R-2R:

- (02) UPPER BRACKET - SLU-34
- (02) LOWER SLOTTED WASHER - SLW-34
- (02) LOWER BRACKET - SLU-34
- (02) LOWER SLOTTED WASHER - SLW-34
- (02) ROD STIFFENER CLAMPS - RS-1
- (02) 3/8" CABLE - 10 FT.
- (04) 1/2" CABLE CLAMPS

NOTES:

- UPPER SLOTTED WASHER - SLW-4 TYP.
- UPPER BRACKET - SLU-34 TYP.
- 1/2"Ø STEEL CABLE - 1/2"Ø CABLE CLAMP
- M.W. SAUSSÉ & CO., INC. SEMI-CABLE BRACING KIT LOWER BRACKET - SLU-34 TYP.
- LOWER SLOTTED WASHER - SLW-34 TYP.

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Vibration & seismic control systems

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W. W. SAUSSÉ & CO., INC.
Civil Engineer - P. Sachdeva
California PE No. CS9644

Page No.: **2.37**
Date: **May 9, 2016**

[illegible]

CABLE BRACING SYSTEM - HUNG ROUND DUCT - TRANSVERSE - 30 DIA. EIMMA

(1/8" Ø CABLE)

NOTES:

- CABLE IS 7 X 19 GALVANIZED STEEL CABLE. SEE PAGE 4.5.
- CABLES TO BE INSTALLED TAYL W/ SLOACK - CABLE MUST NOT SUSTAIN ANY TENSILE LOAD.
- SEE PAGE 4.2.3 FOR ROD STIFFENER DETAIL & REQUIREMENTS.
- SEE PAGE 4.4 FOR BRACKET - UPPER SLOTTED WASHER - SLW-34 DETAIL.
- SEE PAGE 4.5 FOR CABLE CLAMP DETAIL.
- TEKS SCREWS MUST BE PER ICC ESR-1976.
- USE SHORTEST SMP POSSIBLE WHEN PENETRATING DUCTWORK TO MINIMIZE AIRFLOW NOISE INSIDE THE DUCT (FEMA 414).

SEE STRUCTURAL DETAIL 4DS3 FOR ATTACHMENT TO STRUCTURE

THE STRUCTURE
UPPER SLOTTED WASHER - SLW-34, TYP. (2)
UPPER BRACKET - SLW-34, TYP. (2)
1/8" CABLE CLAMP
3/8" STEEL CABLE
M.W. SAUSSE & CO., INC.
SEISMIC CABLE BRACING KIT
- LOWER BRACKET - SLW-34, TYP. (2)
- LOWER SLOTTED WASHER - SLW-38, TYP. (2)
CABLE KIT CAPACITIES (LBS. - LRFD)

ANGLE OF CABLE "X"	MAX. HORIZ. LOAD (LBS.)	"MAX. CABLE TENSION
30° - 45°	547	1098
45° - 60°	1001	1411
60° - 75°	1316	1520
75° - 90°	1361	1449

a. USE 45° TO 60° FOR USE WITH DESIGN TABLES IN SECTION D (SIMPLIFIED DESIGN).

b. USE THE CABLE TENSION FOR SELECTION OF THE CABLE ATTACHMENT TO THE STRUCTURE.

c. ANGLE OF CABLE MUST NOT EXCEED 70° FOR CAPACITIES TO BE VALID.

DUCT BRACING KIT 1-DIRC-38R-2R:
 (02) UPPER BRACKET - SLW-34
 (02) UPPER SLOTTED WASHER - SLW-34
 (02) LOWER BRACKET - SLW-34
 (02) LOWER SLOTTED WASHER - SLW-38
 (04) ROD STIFFENER CLAMPS - RS-1
 (04) 1/8" CABLE - 10 FT.
 (04) CABLE CLAMPS

d. UPPER SLOTTED WASHER TO MATCH SELECTED ATTACHMENT.

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Page No.: **2.49**
 Date: May 9, 2016

CABLE BRACING SYSTEM - HUNG ROUND DUCT - TRANSVERSE & LONGITUDINAL - 30 PLF MAX ($\frac{1}{8}" \phi$ CABLE)

SEE STRUCTURAL
DETAIL 4503 FOR
ATTACHMENT TO
STRUCTURE

150x150x12GA STRUT CHANNEL

30 PLF MAX ($\frac{1}{8}" \phi$ CABLE)

TRANSVERSE VIEW

UPPER SLOTTED WASHER - SLW-#1, TYP. (6)

UPPER BRACKET - SLH-34, TYP. (6)

$\frac{1}{2}"$ CABLE CLAMP

$\frac{1}{2}"$ STEEL CABLE

M.W. SAUSSE & CO., INC. SEISMIC CABLE BRACING KIT

LOWER BRACKET - SLH-34, TYP. (6)

LOWER SLOTTED WASHER - SLW-38, TYP. (6)

MIN. 8" O.C. ALL OTHER PLACES

SEE CONNECTION DETAIL

DUCT

3" WIDE 12 GA STEEL BANDS AROUND DUCT

7/16" HOLE THRU STRAP

15x15x1/4" A36 SS PLATE W/ $\frac{1}{2}" \phi$ HOLE @ CNTR

3/8" NUT & WASHER SWAG TIGHT TOP & BOT.

LOWER BRACKET - SLH-34, SLW-38

3/4"

2 1/2"

CONNECTION DETAIL

DUCT

$\frac{1}{2}"$ CABLE

$\frac{1}{2}" \phi$ ROD

3" WIDE 12GA STEEL BAND MIN F_y=36ksi

TYPICAL ELEVATION VIEW

ANGLE OF CABLE 2° TO 45°

MAX. HORIZ. LOAD (LBS)

MAX. CABLE TENSION

ANGLE OF CABLE 2° TO 45°	MAX. HORIZ. LOAD (LBS)	MAX. CABLE TENSION
45°	547	1095
45° - 60°	1001	1411
60° - 65°	1316	1520
60° - 70°	1361	1449

a. USE 45° TO 60° FOR USE WITH DESIGN TABLES IN SECTION 9 (SIMPLIFIED DESIGN)

b. USE THE CABLE TENSION FOR SELECTION OF THE CABLE ATTACHMENT TO THE STRUCTURE.

c. LONGITUDINAL CAPACITY IS 2x THE LOAD SHOWN.

d. ANGLE OF CABLE MUST NOT EXCEED 70° FOR CAPABILITIES TO BE VALID.

DATE: 05/27/2016

TYPICAL PLAN VIEW

5' MAX

5' MAX

DUCT BRACING KIT 2-D1-8C-38R-2R:

- (06) UPPER BRACKET - SLH-34
- (06) UPPER SLOTTED WASHER - SLW-#1
- (06) LOWER BRACKET - SLH-34
- (06) LOWER SLOTTED WASHER - SLW-38
- (04) ROD STIFFENER CLAMPS - RS-1
- (06) $\frac{1}{2}" \phi$ - 10 FT.
- (12) $\frac{1}{2}" \phi$ CABLE CLAMPS

e. UPPER SLOTTED WASHER TO MATCH SELECTED ATTACHMENT.

NOTES:

- CABLE IS 7 X 19 GALVANIZED STEEL CABLE. SEE PAGE 4.5.
- CABLES TO BE INSTALLED TAO W/ SLACK. CAUTION - CABLE MUST NOT SUSTAIN ANY DEAD LOAD.
- SEE PAGE 4.2 & 3 FOR ROD TENSILE DETAIL & REQUIREMENTS.
- SEE PAGE 4.4 FOR BRACKET - SLH-34 AND SLOTTED WASHER - SLW-3X DETAIL.
- SEE PAGE 4.5 FOR CABLE CLAMP DETAIL.
- TEKS SCREWS MUST BE PER ICC-ES ESR-1976.
- USE SHORTEST AND POSSIBLE WHEN PENETRATING DUCTWORK TO MINIMIZE AIRFLOW NOISE INSIDE THE DUCT (FEMA 414).

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Michael Sausse
Civil Engineer - P.E. Sachdeva
California P.E. No. CS9644

Page No.:
2.50
Date:
May 9, 2016

RS-1 - ROD STIFFENER DETAILS & REQUIREMENTS

SEE STRUCTURAL DETAIL 4/S/D3
FOR CABLE ATTACHMENTS

SEE STRUCTURAL DETAIL 4/S/D3
FOR ATTACHMENT TO STRUCTURE

OUTLINE OF
STRUCTURE

PRMKA (SEE PAGE 4.1)

VERTICAL LIMIT
STOP

1" MIN
TOP & BOT.

6" MAX.

S MAX.

15/16" x 1/2" GA
STRUT CHANNEL

ROD STIFFENER
CLAMP RS-1

L MAX.

5" MAX.

6" MAX.

EQUIPMENT

DATE: 05/27/2016

1 1/2" x 1 1/2" GA
STRUT CHANNEL

TIGHTEN BOLT TO
MIN. 25 ft-lb

RS-1

THREADED ROD
(A36)

SECTION A

1 1/2" x 1 1/2" GA
STRUT CHANNEL

3/8" TAP

ASTM A1011
CLASS 55 Gr. 36

RS-1 DETAILS

70°

1/2" Ø x 2" AS87 BOLT

SLOT FOR
STRUT FLANGE

TABLE 1
(L MAX. WITHOUT ROD STIFFENER)

ROD DIA.	3/8"	1/2"
L MAX.	15"	21"

TABLE 2
(L MAX. WITH ROD STIFFENER)

ROD STIFFENER	1-5/8" x 1-5/8" x 1/2" GA STRUT CHANNEL
L MAX.	116"

TABLE 3
(S MAX. WITH ROD STIFFENER)

ROD DIA.	3/8"	1/2"
S MAX.	15"	21"

NOTES:

1. SEE TABLE 1 FOR MAXIMUM LENGTH OF $\frac{3}{4}$ " $\frac{3}{4}$ " $\frac{3}{4}$ " RODS WITHOUT ROD STIFFENER.
2. SEE TABLE 2 FOR MAXIMUM LENGTH OF $\frac{1}{2}$ " $\frac{1}{2}$ " $\frac{1}{2}$ " RODS WITH ROD STIFFENER.
3. SEE TABLE 3 TO DETERMINE NUMBER OF ROD STIFFENER CLIPS REQUIRED.
4. PROVIDE ROD STIFFENING ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD.
5. SEE SECTION 3 FOR STRUCTURAL ATTACHMENTS FOR HANGER BOB AND CABLE BRACING

Vibrex
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Page No.:

4.2

Date: May 9, 2016

RS-1 - ROD STIFFENER DETAILS & REQUIREMENTS

TABLE 1
(L MAX. WITHOUT ROD STIFFENER)

ROD DIA.	3/8"	1/2"	5/8"	3/4"	7/8"
L MAX.	15"	21"	26"	32"	38"

TABLE 2
(L MAX. WITH ROD STIFFENER)

ROD STIFFENER	1 1/2" BxL 5/8x1 1/2" STRUT CHANNEL
L MAX.	116"

TABLE 3
(S MAX. WITH ROD STIFFENER)

ROD DIA.	3/8"	1/2"	5/8"	3/4"	7/8"
S MAX.	15"	21"	26"	32"	38"

a. 3/8" ROD ONLY USED FOR HEAVY PIPE. SEE PAGES 2.10 THROUGH 2.15 FOR APPLICATIONS.

SECTION A

RS-1 DETAILS

NOTES:

1. SEE TABLE 1 FOR MAXIMUM LENGTH OF 3/8" THRU 7/8" Ø RODS WITHOUT ROD STIFFENER.
2. SEE TABLE 2 FOR MAXIMUM LENGTH OF 3/8" THRU 7/8" Ø RODS WITH ROD STIFFENER.
3. SEE TABLE 3 TO DETERMINE NUMBER OF ROD STIFFENER CLIPS REQUIRED.
4. PROVIDE ROD STIFFENING ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD.
5. SEE SECTION 3 FOR STRUCTURAL ATTACHMENTS FOR HANGER BOX AND CABLE BRACING

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Page No.:

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Date: May 9, 2016

SLH-34 & SLW-38, 12, 58, & 34 DETAILS

SLH-34 BRACKET (FRONT)

SLH-34 BRACKET (ELEVATION)

SLW-38

SLW-12

SLW-58

SLW-34

10 GA ASTM A1011 CLASS 55, Gr. 36 TOLERANCE: ±0.010

4 GA ASTM A1011 CLASS 55 Gr. 36

USE SLW-38 WITH 1/2" Ø ROD

USE SLW-12 WITH 1/2" Ø ROD

USE SLW-58 WITH 1/2" Ø ROD

USE SLW-34 WITH 1/2" Ø ROD

SLUT OF SLW OPEN TOWARDS CABLE ALWAYS

OUTLINE OF SLH-34

USE OF SLW WITH SLH-34

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Page No.:

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Date: May 9, 2016

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DSA SUBMITTAL

MECHANICAL DETAILS

VRF Indoor Unit
40VMM015A--3—Medium Static Duct



Submittal Data

Job Data _____ Location _____
Buyer _____ Buyer PO # _____ Carrier # _____
Unit Number _____ Model Number _____
Performance Data Certified By _____ Date _____



- STANDARD FEATURES**
- Rear Return Air Opening is Standard and Bottom Return is Optional
 - Three Fan Speeds - High, Medium, and Low
 - Knockout for Outside Air
 - Built-in Condensate Lift Mechanism
 - Built in EXV (Electronic Expansion Valve) for Installation

INDOOR UNIT MODEL		40VMM015A--3		PHYSICAL DATA	
PERFORMANCE					
Cooling Rated Capacity	Btu/h	15,000		Pipe Connection Size - Liquid	in 1/4 (10)
Heating Rated Capacity	Btu/h	17,000		Pipe Connection Size - Gas	in 1/2 (10)
Airflow (H / M / L)	CFM	535 / 450 / 400		Maximum	in 3/4 (NPT)
Sound Pressure (H / M / L)	dBA	35.9 / 32.7 / 31.4		Pipe Connection Size - Drain	in 3/4 (NPT)
				Static External Static Pressure (ESP)	in wg 0.6
ELECTRICAL					
Power Supply	V/Ph/Hz	208-230/1/60		Refrigerant	R-410A
Indoor Fan Motor Power Consumption (input)	W	145		Unit Width	in 48-1/2
Minimum Circuit Amps (MCA)	A	3.13		Unit Depth	in 15-3/8
Maximum Overcurrent Protection	A	15		Unit Height	in 30-1/2
Motor Type		DC		Net Unit Weight	lb 99.2

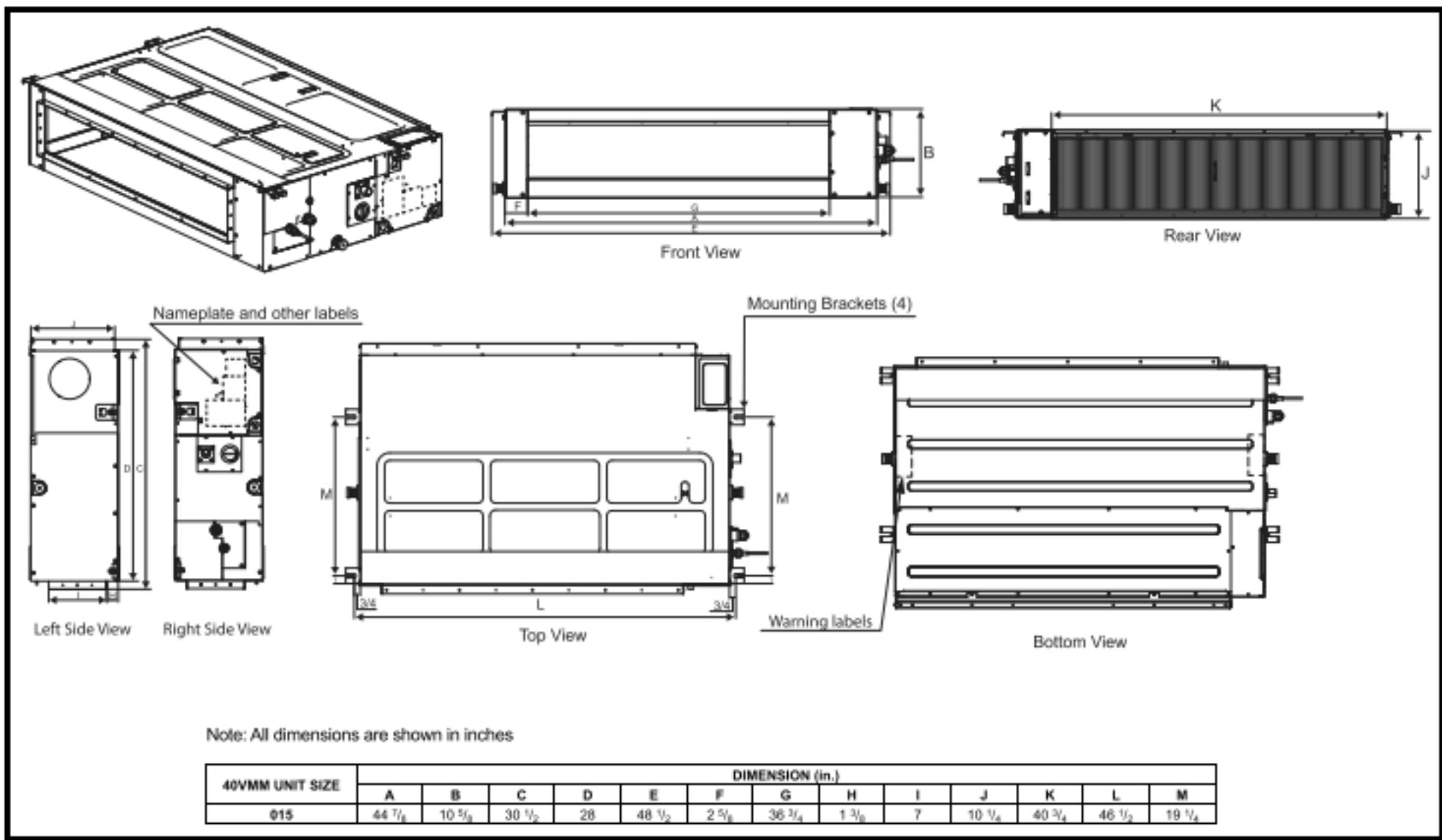
PHYSICAL DATA			
Pipe Connection Size - Liquid	in.	1/4 (OD)	
Pipe Connection Size - Suction	in.	1/2 (OD)	
Pipe Connection Size - Drain	in.	3/4 NPT	
Maximum External Static Pressure (ESP)	in. wg	0.6	
Refrigerant		R-410A	
Unit Width	in.	48-1/2	
Unit Height	in.	10-5/8	
Unit Depth	in.	30-1/2	
Net Unit Weight	lb	99.2	

ACCESSORIES

- ☐ Wireless Remote Controller 40VM900001
- ☐ Wired Remote Controller - Non-Prog. 40VM900002
- ☐ Wired Remote Controller - Prog. 40VM900003
- ☐ Touch Screen Wired Controller 40VM900005
- ☐ Touch Screen Central Controller 40VM900006

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DIMENSIONAL DRAWING
INDOOR UNIT MEDIUM STATIC DUCT 40VMM015A--3



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VRF Indoor Unit
40VMM018A--3—Medium Static Duct



Submittal Data

Job Data _____ Location _____
Buyer _____ Buyer PO # _____ Carrier # _____
Unit Number _____ Model Number _____
Performance Data Certified By _____ Date _____



- STANDARD FEATURES**
- Rear Return Air Opening is Standard and Bottom Return is Optional
 - Three Fan Speeds - High, Medium, and Low
 - Knockout for Outside Air
 - Built-in Condensate Lift Mechanism
 - Built in EXV (Electronic Expansion Valve) for Installation

INDOOR UNIT MODEL		40VMM018A--3		PHYSICAL DATA	
PERFORMANCE					
Cooling Rated Capacity	Btu/h	18,000		Pipe Connection Size - Liquid	in
Heating Rated Capacity	Btu/h	21,000		Pipe Connection Size - Gas	in
Airflow (H / M / L)	CFM	640 / 540 / 480		Section	
Sound Pressure (H / M / L)	dBA	38.6 / 33.6 / 31.9		Pipe Extension Size - Drain	in
				Maximum External Static Pressure	in wg
ELECTRICAL					
Power Supply	V/Ph/Hz	208-230/1/60		Refrigerant	R-410A
Indoor Fan Motor Power Consumption (Input)	W	185		Unit Width	in
Minimum Circuit Amps (MCA)	A	3.13		Unit Height	in
Maximum Overcurrent Protection	A	15		Unit Depth	in
Motor Type		DC		Net Unit Weight	lb

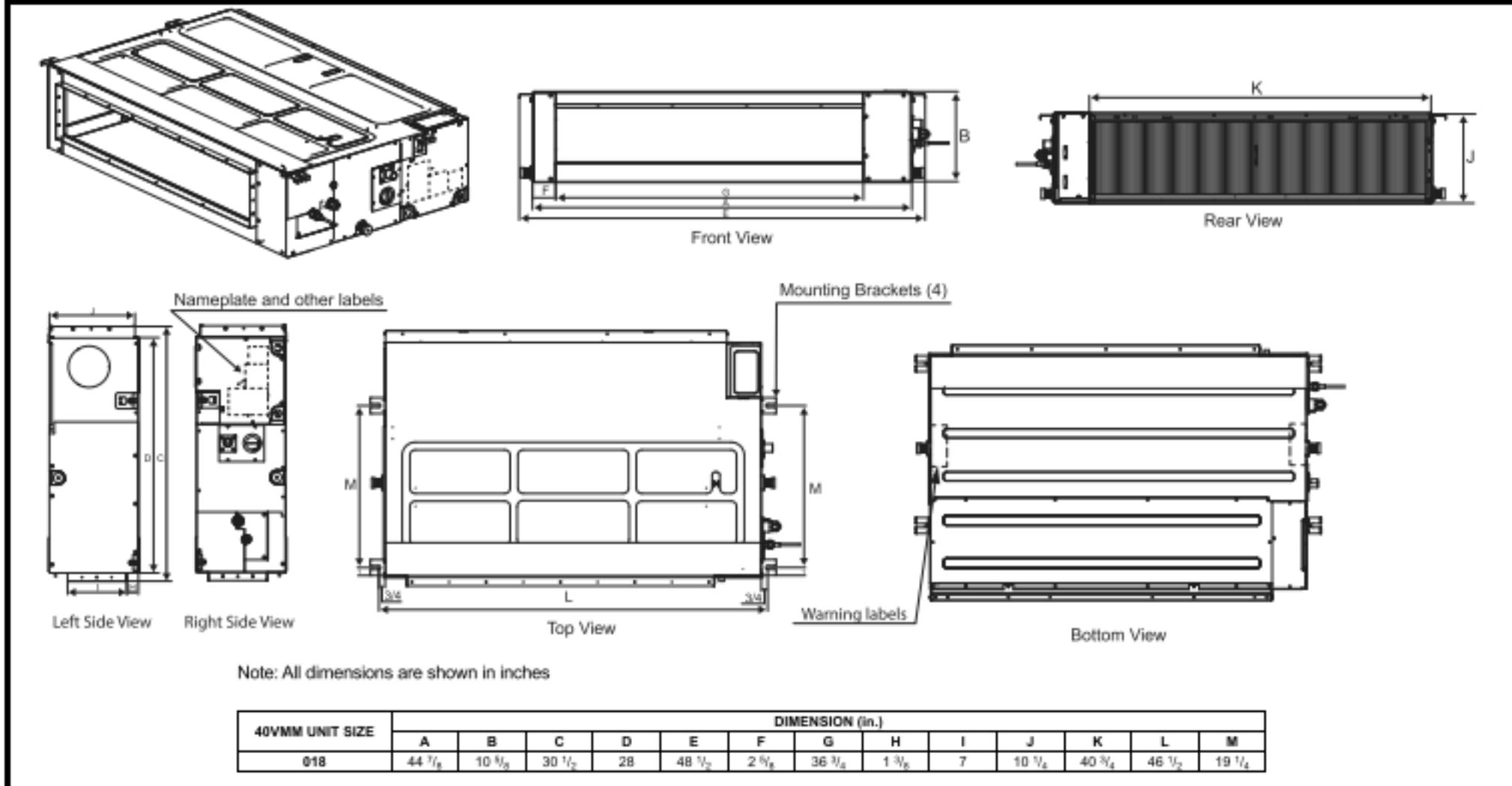
PHYSICAL DATA			
Pipe Connection Size - Liquid	in.	3/8 (OD)	
Pipe Connection Size - Suction	in.	5/8 (OD)	
Pipe Connection Size - Drain	in.	3/4 NPT	
Maximum External Static Pressure (ESP)	in. wg	0.6	
Refrigerant		R-410A	
Unit Width	in.	48-1/2	
Unit Height	in.	10-5/8	
Unit Depth	in.	30-1/2	
Net Unit Weight	lb	99.2	

ACCESSORIES

- ☐ Wireless Remote Controller 40VM900001
- ☐ Wired Remote Controller - Non-Prog. 40VM900002
- ☐ Wired Remote Controller - Prog. 40VM900003
- ☐ Touch Screen Wired Controller 40VM900005
- ☐ Touch Screen Central Controller 40VM900006

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DIMENSIONAL DRAWING
INDOOR UNIT MEDIUM STATIC DUCT 40VMM018A--3



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VRF Indoor Unit
40VMM024A--3—Medium Static Duct



Submittal Data

Job Data _____ Location _____
Buyer _____ Buyer PO # _____ Carrier # _____
Unit Number _____ Model Number _____
Performance Data Certified By _____ Date _____



- STANDARD FEATURES**
- Rear Return Air Opening is Standard and Bottom Return is Optional
 - Three Fan Speeds - High, Medium, and Low
 - Knockout for Outside Air
 - Built-in Condensate Lift Mechanism
 - Built in EXV (Electronic Expansion Valve) for Installation

INDOOR UNIT MODEL		40VMM024A--3		PHYSICAL DATA					
PERFORMANCE				Pipe Connection Size - Liquid		in	3/8 (OD)		
Cooling Rated Capacity	Btu/h	24,000		Pipe Connection Size - Gas		in	1/2 (OD)		
Heating Rated Capacity	Btu/h	27,000		Maximum Connection Size - Drain		in	3/4 NPT		
Airflow (H / M / L)	CFM	800 / 640 / 570		Maximum External Static Pressure		in. wg	0.6		
Sound Pressure (H / M / L)	dBA	42.0 / 36.3 / 34.2							
ELECTRICAL				Refrigerant					
Power Supply	V/Ph/Hz	208-230/1/60		Unit Width				in	48-1/2
Indoor Fan Motor Power Consumption (input)	W	230		Unit Height				in	10-5/8
Minimum Circuit Amps (MCA)	A	3.13		Unit Depth				in	30-1/2
Maximum Overcurrent Protection	A	15		Net Unit Weight				lb	99.2
Motor Type		DC							

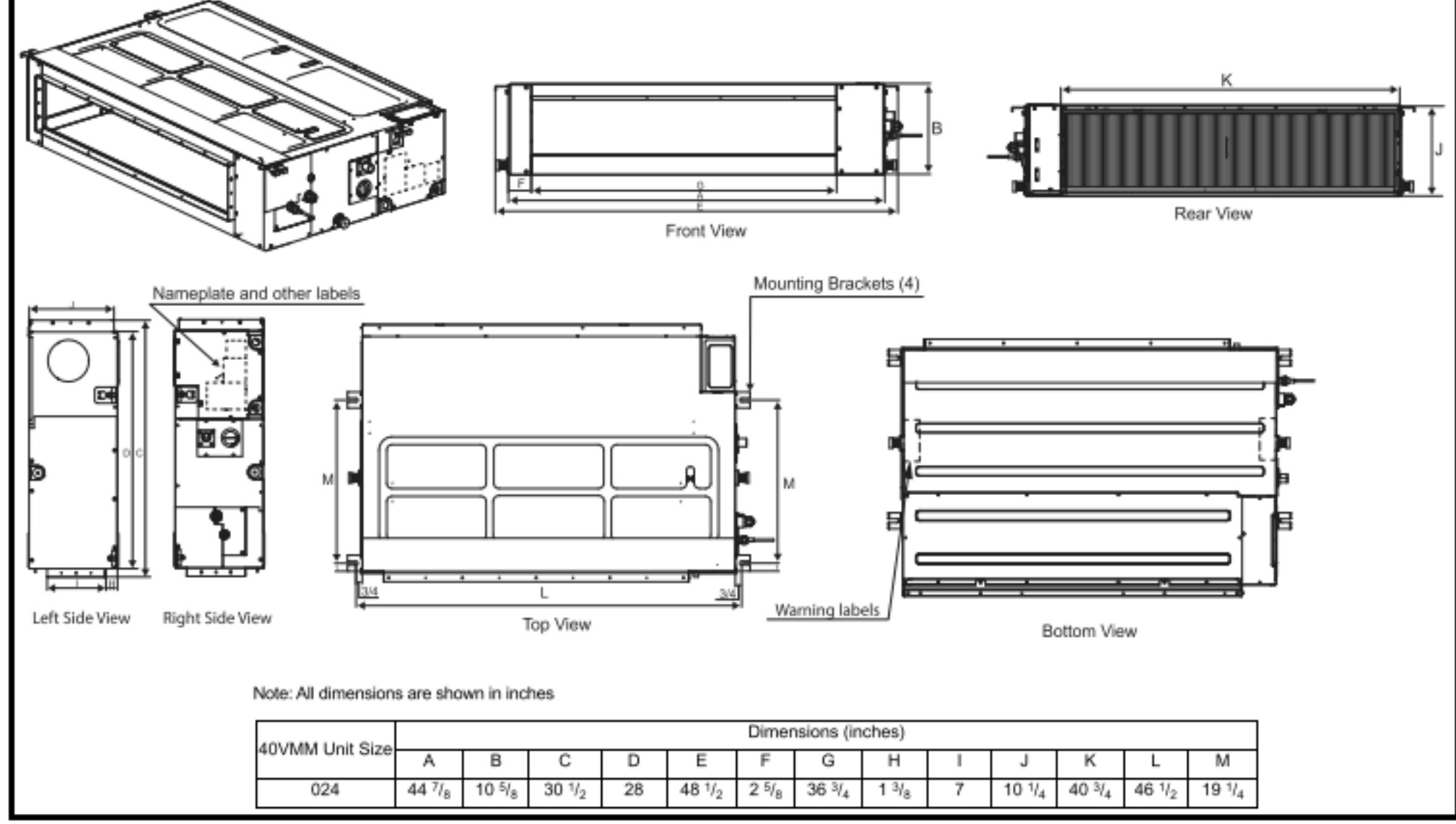
PHYSICAL DATA			
Pipe Connection Size - Liquid	in.	3/8 (OD)	
Pipe Connection Size - Suction	in.	5/8 (OD)	
Pipe Connection Size - Drain	in.	3/4 NPT	
Maximum External Static Pressure (ESP)	in. wg	0.6	
Refrigerant			
		R-410A	
Unit Width	in.	48-1/2	
Unit Height	in.	10-5/8	
Unit Depth	in.	30-1/2	
Net Unit Weight	lb	99.2	

ACCESSORIES

- ☐ Wireless Remote Controller 40VM900001
- ☐ Wired Remote Controller - Non-Prog. 40VM900002
- ☐ Wired Remote Controller - Prog. 40VM900003
- ☐ Touch Screen Wired Controller 40VM900005
- ☐ Touch Screen Central Controller 40VM900006

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DIMENSIONAL DRAWING
INDOOR UNIT MEDIUM STATIC DUCT 40VMM024A--3



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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PRK

ARCHITECT PRK Architects, Inc.
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CONSULTANT LEAF ENGINEERS



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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St.
Westminster, CA 92683
DSA SUBMITTAL
DSA APP# NO. 04-121818 DSA FILE NO. 30-43



Architect

CLIENT		WESTMINSTER SCHOOL DISTRICT
DATE	04-17-2023	PROJECT NUMBER
		220309
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

MECHANICAL DETAILS -
VARIABLE
REFRIGERANT SYSTEM

M5.03

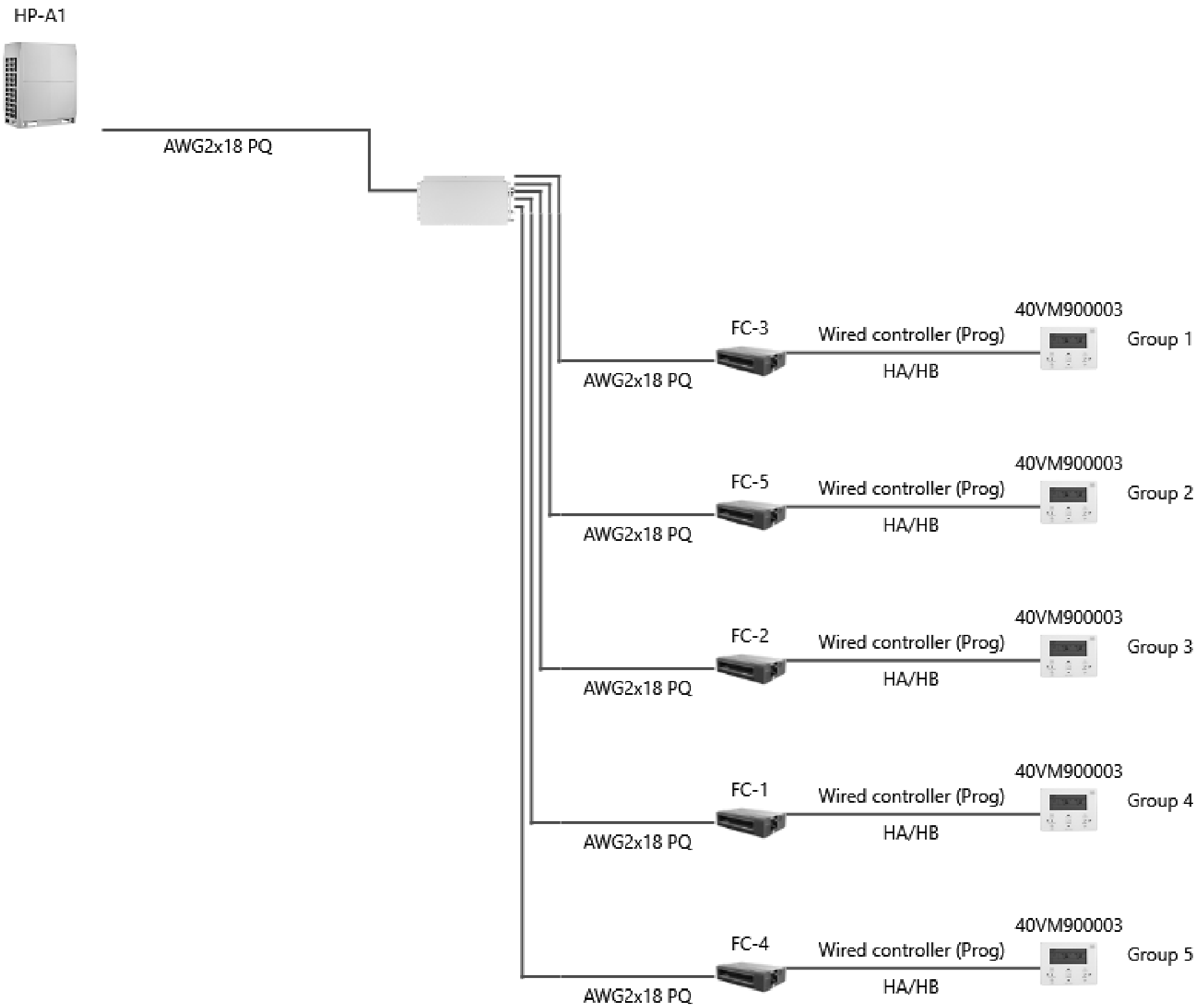
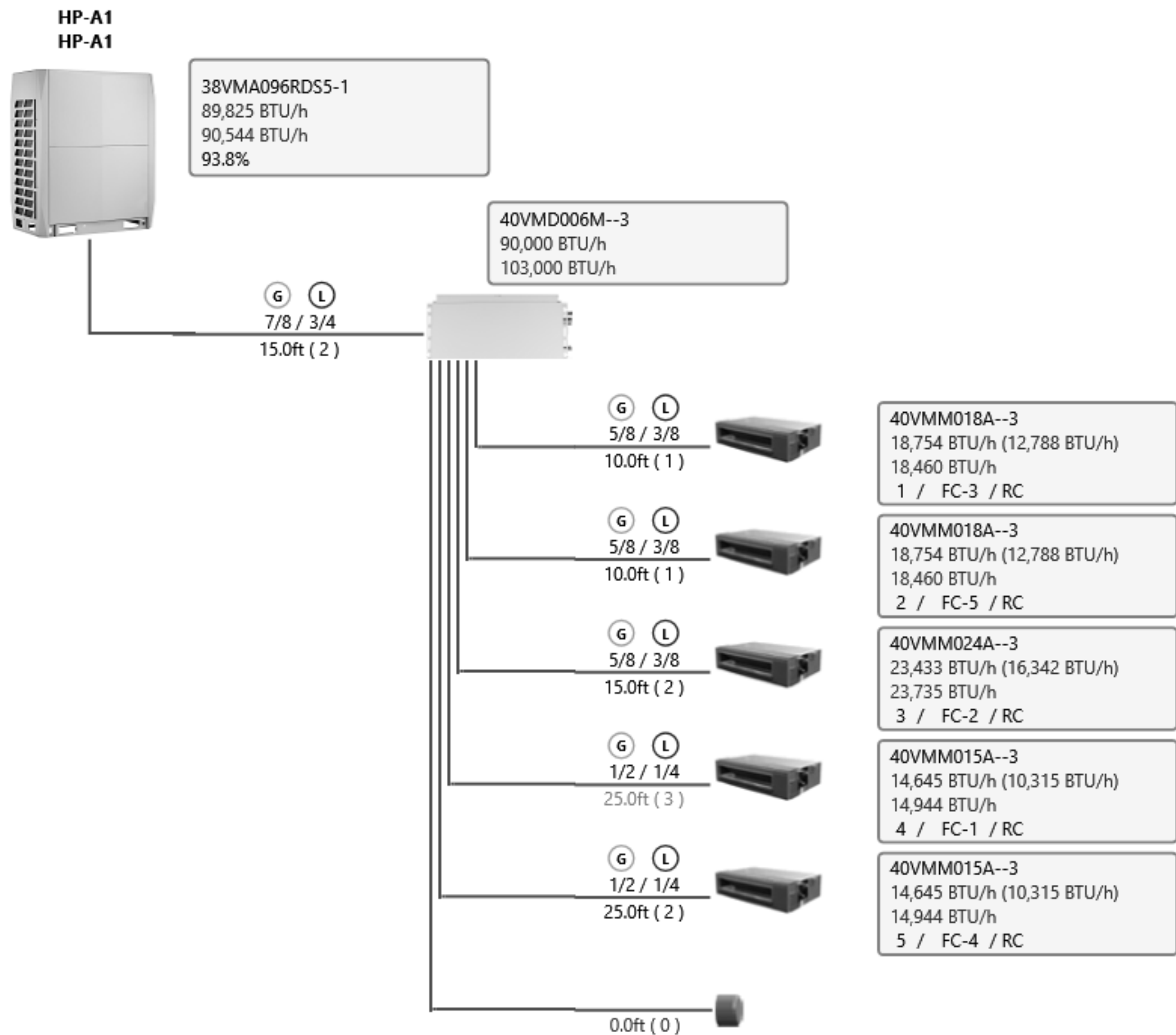
Indoor Units:	5 / 1 to 20
Capacity:	90 / 48 to 144 (93.8%)
Total Pipe Length:	100.0 / 1900.0 feet
Furthest Actual:	40.0 / 541.0 feet
Furthest Equiv.:	45.7 / 623.0 feet
After 1st Branch Actual:	25.0 / 182.3 feet
After 1st Branch Equiv.:	28.4 / 182.3 feet
Max Height Between IDU/IDU:	0.0 / 98.0 feet
Max Height Between IDU/ODU (Above):	15.0 / 164.0 feet
Max Height Between IDU/ODU (Below):	0.0 / 131.2 feet

Correction Factors		
System Capacity:	0.94	0.84
Temperature:	0.94	0.94
Piping Length:	1.00	1.00
Altitude:	1.00	1.00
Defrosting:	-	0.90
Additional Derates:	1.00	1.00

Additional Refrigerant:	14.53	lb
Total Refrigerant Amount:	40.98	lb
Min Allowable Room Volume(cuft):	1576.16	

Design Temperatures (°F)

Cooling:					
Indoor DB	80.0	Humidity	51.8%	Indoor WB	67.0
Outdoor DB	98.0				
Heating:					
Indoor DB	70.0				
Outdoor DB	41.0	Humidity	75.0%	Outdoor WB	37.8



2 VRF REFRIGERANT PIPING DIAGRAM

12" = 1'-0"

1 VRF CONTROL WIRING DIAGRAM

12" = 1'-0"

**VRF Outdoor Unit
38VMA096RDS5-1 - Heat Recovery**



Submittal Data

Job Data _____ Location _____
Buyer _____ Buyer PO # _____ Carrier # _____
Unit Number _____ Model Number _____
Performance Data Certified By _____ Date _____



- Heat Recovery Features**
- Modules available from 6 to 28 tons
 - Modules have inverter-driven scroll compressors
 - Direct-drive, inverter-driven outdoor motor
 - Up to 3280 ft (1000 m) actual total system piping (liquid line)
 - 658 ft (200 m) actual piping length from outdoor unit to furthest fan coil
 - Up to 3507 ft (1200 m) control wiring between the outdoor units and indoor units
 - Operating temperature range Cooling (db): 5° to 125°F
- (-15° to 52°C)
Heating (wb): -13° to 64°F
(-25° to 18°C)
- Protection: high pressure sensor and switch, low pressure sensor and switch, process controller board fuse, inverter overload protection
 - 7-year compressor limited warranty
 - 5-year parts limited warranty

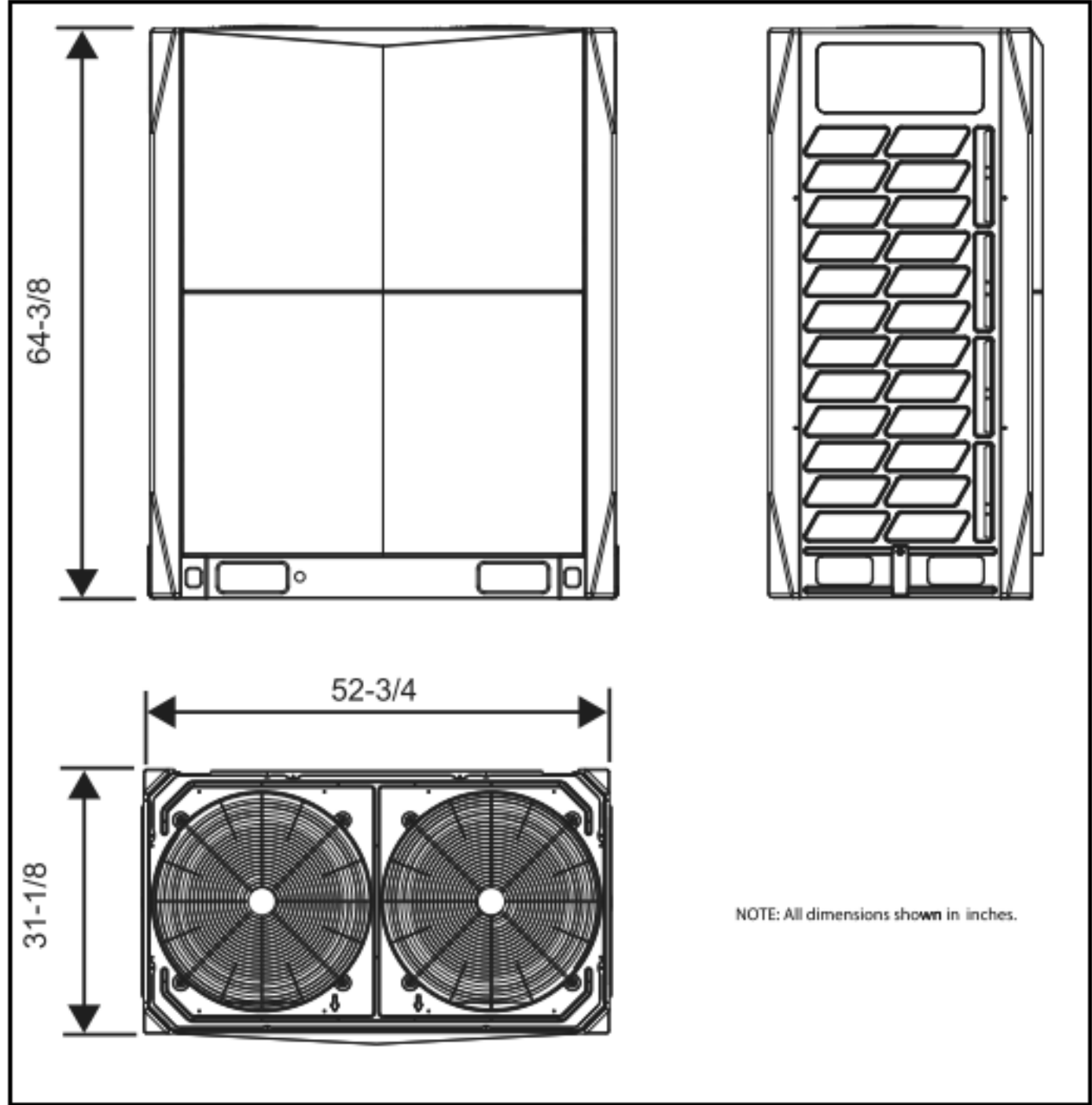
Header Unit Model	38VMA096RDS5-1
PERFORMANCE	
Normal Cooling Capacity	Btu/h 96,000
Normal Heating Capacity	Btu/h 108,000
Maximum Total Connected Indoor Unit Capacity	50% to 150%
SIMULTANEOUS COOLING AND HEATING EFFICIENCY:	
SCHL Ductless FCUs	27.7%
SCHL Ductless FCUs	30.0%
COOLING EFFICIENCY:	
ENERSEER Ductless FCUs	Btu/hWh 12.4/24.30
Power Consumption, Ductless FCUs	kW 7.10
ENERSEER Ductless FCUs	Btu/hWh 13.2/23.70
Power Consumption, Ductless FCUs	kW 8.20
HEATING EFFICIENCY:	
COP at 47°F, Ductless FCUs	3.63
Power Consumption, Ductless FCUs	kW 8.09
COP at 47°F, Ductless FCUs	3.82
Power Consumption, Ductless FCUs	kW 7.20
Fan Type (Qty)	Propeller (2)
Airflow, Standard Range	CFM 7600
Sound Pressure	dBA 61.7
External Static Pressure*	in. wg 0.24

LEGEND

DB = Dry Bulb
WB = Wet Bulb
FCU = Fan Coil Unit
MBH = Mechanical Btu/h
SEER = Seasonal Energy Efficiency Ratio
SHEER = Simultaneous Cooling and Heating Efficiency

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.
Printed in U.S.A. Form 38VMR0965-C-1SD Pg 1 01-17 Replaces: New

**DIMENSIONAL DRAWING
OUTDOOR UNIT 38VMA096RDS5-1**



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**VRF Controls and Accessories
40VM900003 - Wired Remote Controller
(Programmable)**



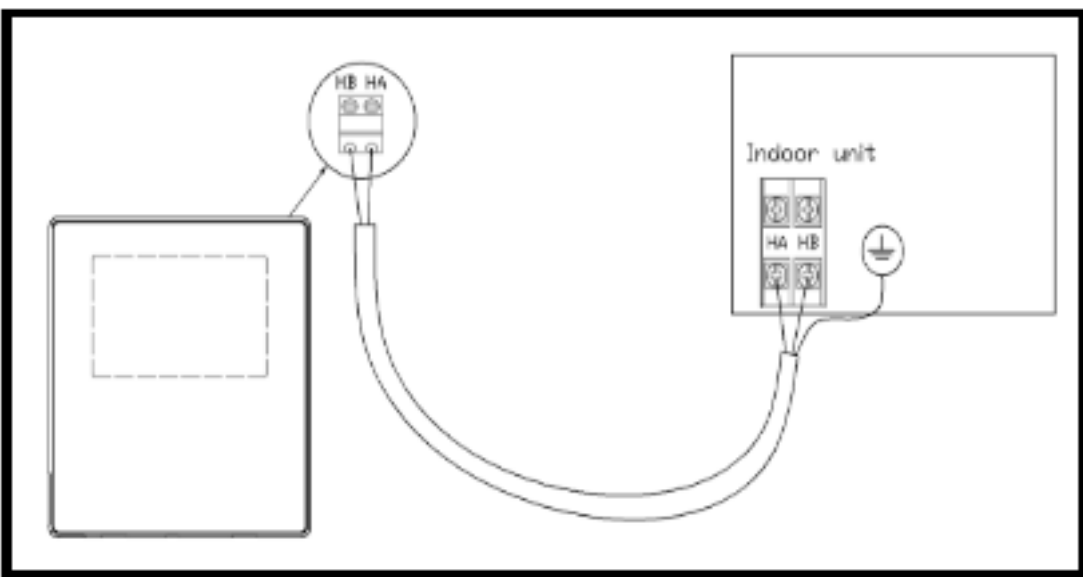
Submittal Data

Job Data _____ Location _____
Buyer _____ Buyer PO # _____ Carrier # _____
Unit Number _____ Model Number _____
Performance Data Certified By _____ Date _____



- 40VM900003 - Wired Remote Controller (Programmable)**
- Features**
- Back lit easy to read
 - ON/OFF
 - Unit addressing capability
 - Mode setting: cool, heat, dry, fan, and auto
 - Room temperature display
 - Fan speed setting
 - Louver swing operation
 - Weekly scheduling
 - Temperature display in 1°F
 - Set temperature range limiting (62°F to 88°F)
 - Dual set-point control
 - Error display
 - Group Control (Max 16 IDU)
 - Touch Buttons
 - Clock

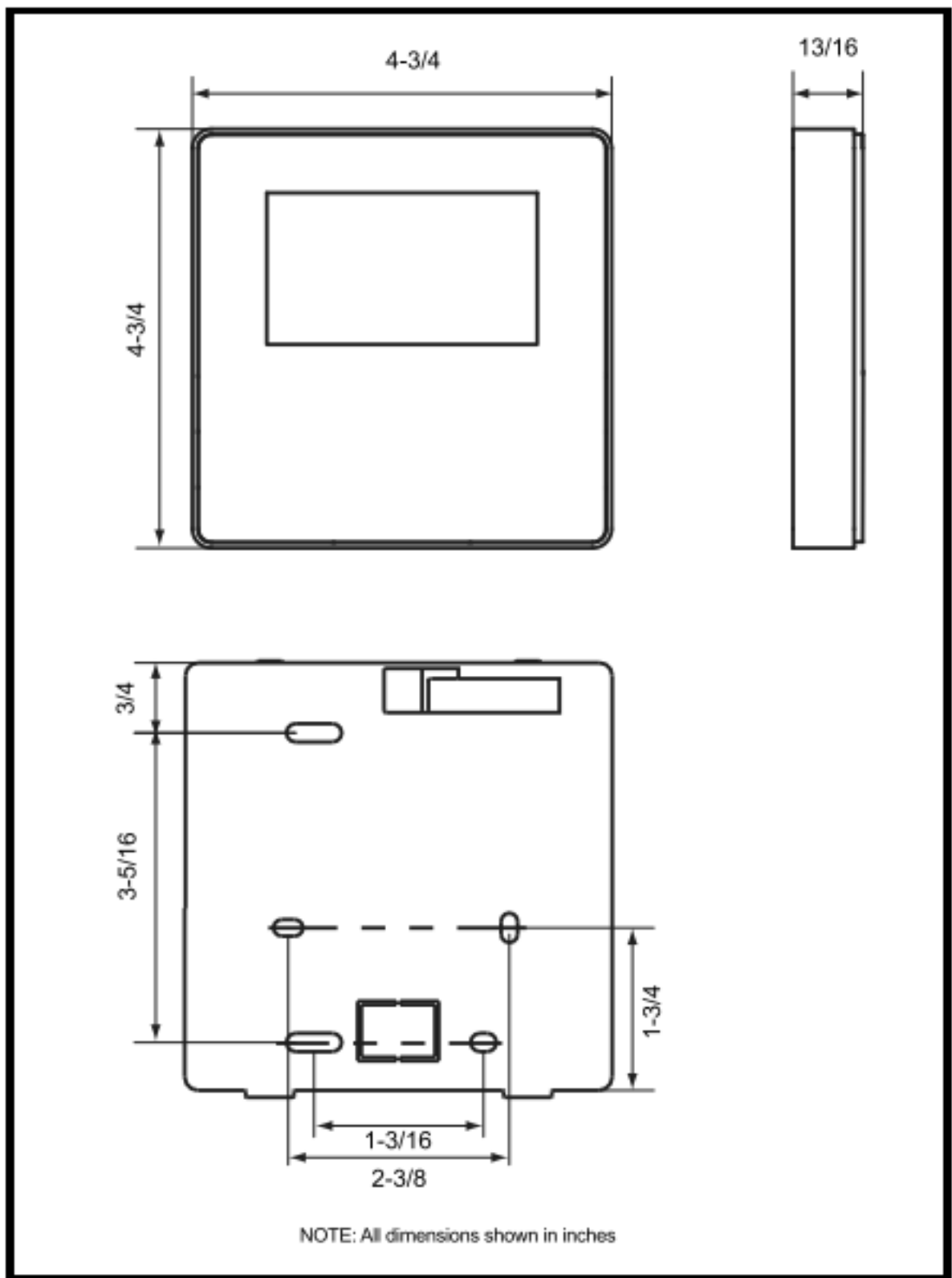
WIRING DIAGRAM



* Use wire size 20AWG to 16AWG stranded, shielded, 2-core.

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**DIMENSIONAL DRAWING
40VM900003 WIRED REMOTE CONTROLLER (PROGRAMMABLE)**



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Printed in U.S.A. Form 40VM900003-C-1SD Pg 2 01-17 Replaces: New

4 VRF OUTDOOR HEAT PUMP

12" = 1'-0"

3 VRF CONTROL COMPONENTS

12" = 1'-0"

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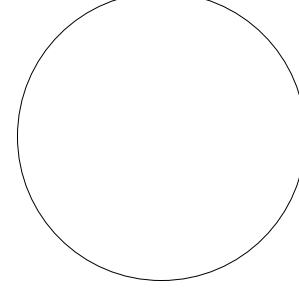
DSA SUBMITTAL

DSA APPL NO. 04-121818 DSA FILE NO. 30-43

Consultant



Architect

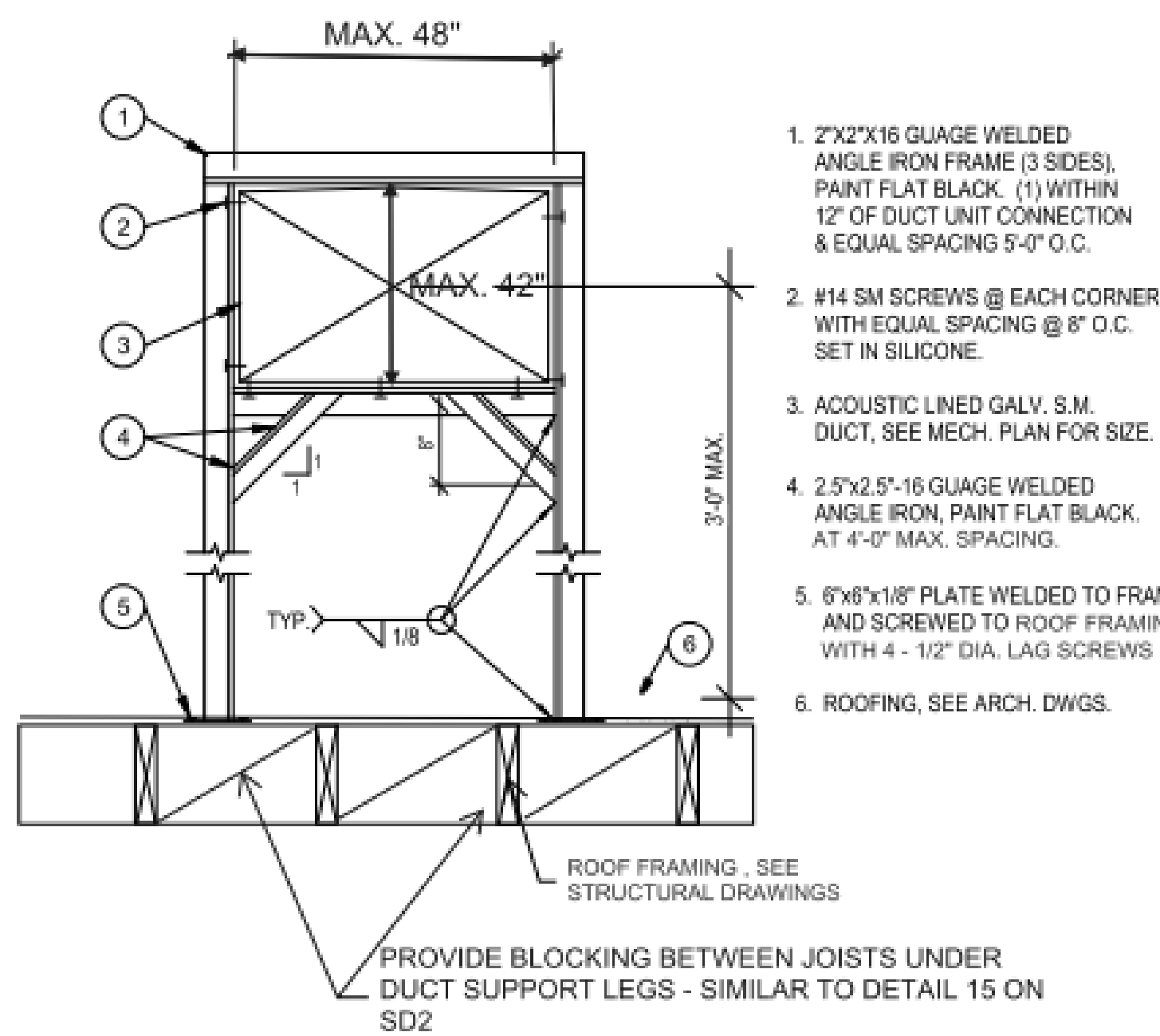


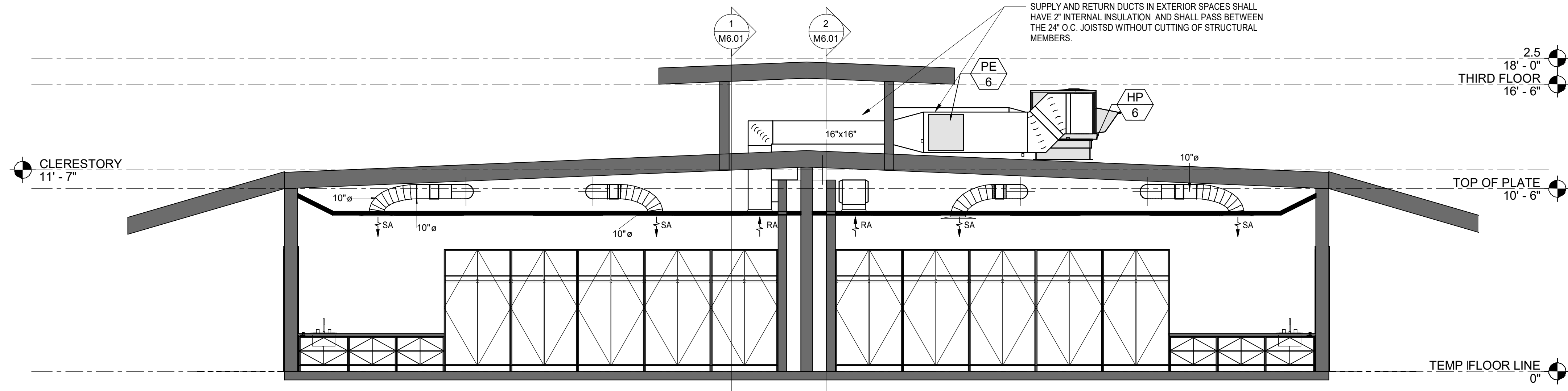
REVISIONS		
No.	Description	Date

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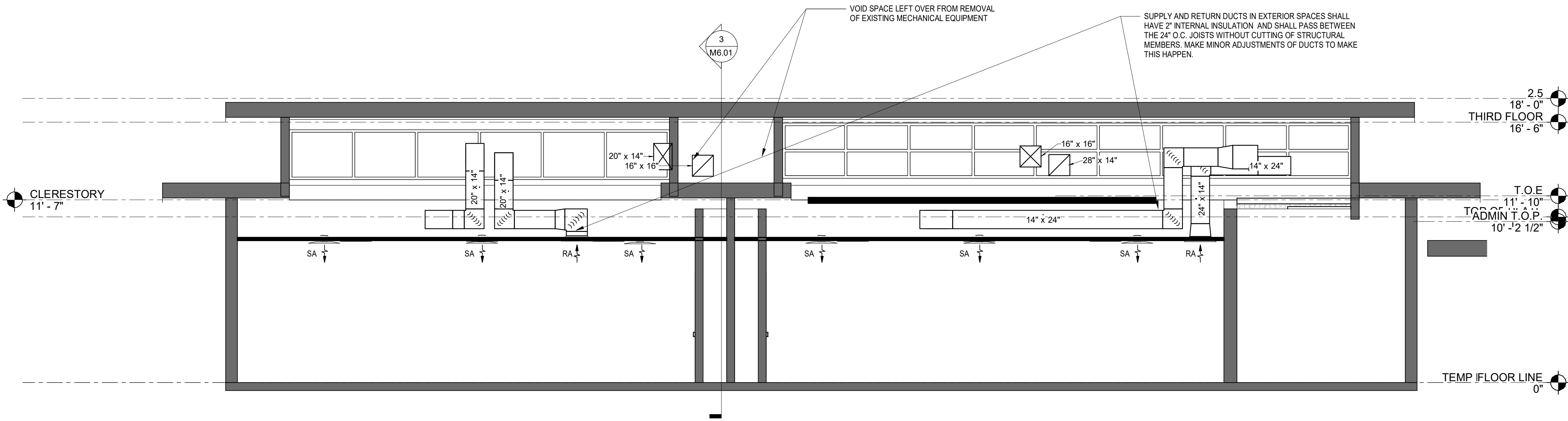
**MECHANICAL DETAILS -
VARIABLE
REFRIGERANT SYSTEM**

M5.04

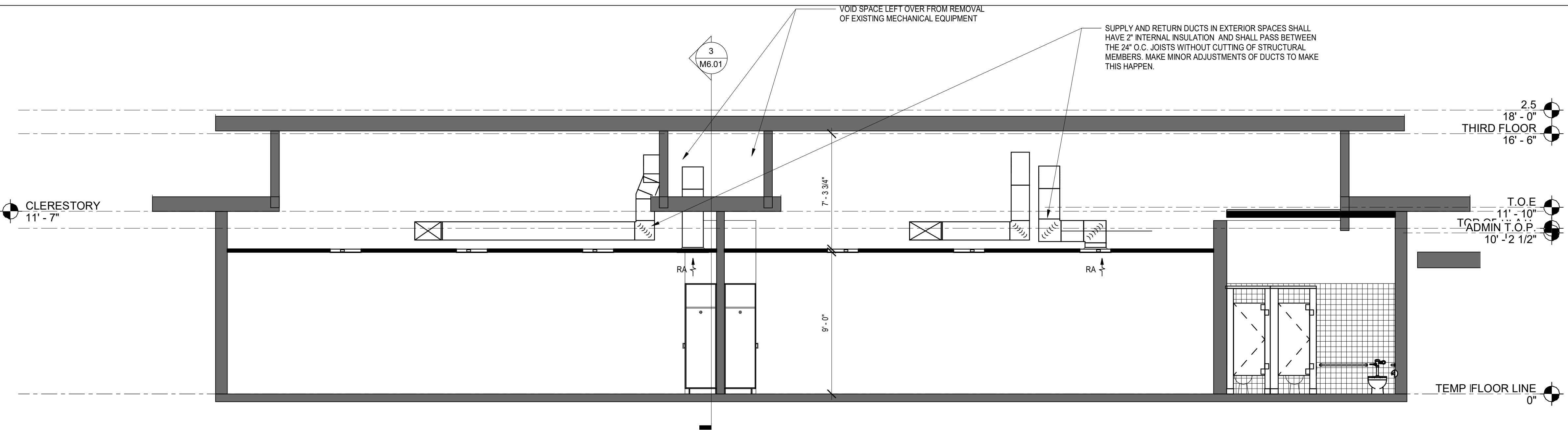




3 SECTION - CLASSROOM BLDG B
1/4" = 1'-0"



2 SECTION - CLASSROOM BUILDING B
1/4" = 1'-0"



1 SECTION - CLASSROOM BLDG
1/4" = 1'-0"

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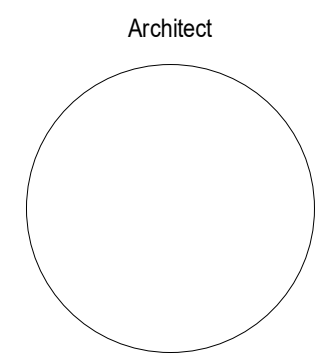
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DSA APP. NO. 04-121818 DSA FILE NO. 30-43

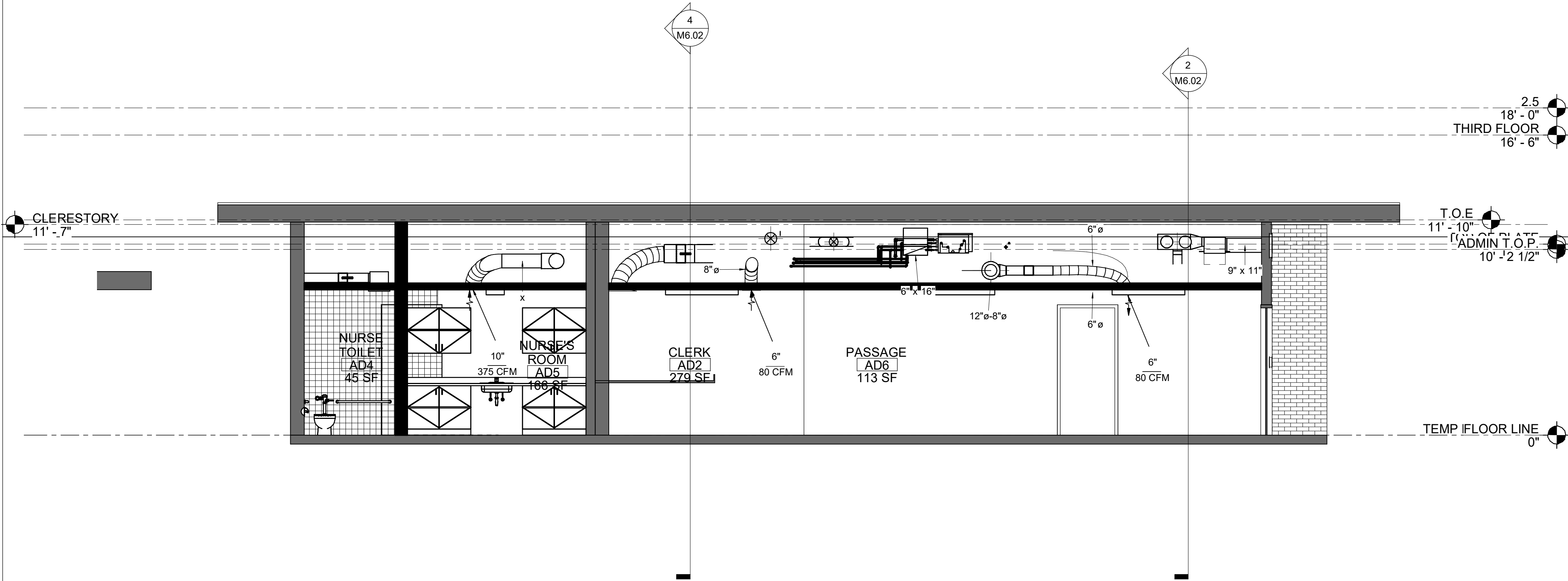


REVISIONS		
No.	Description	Date

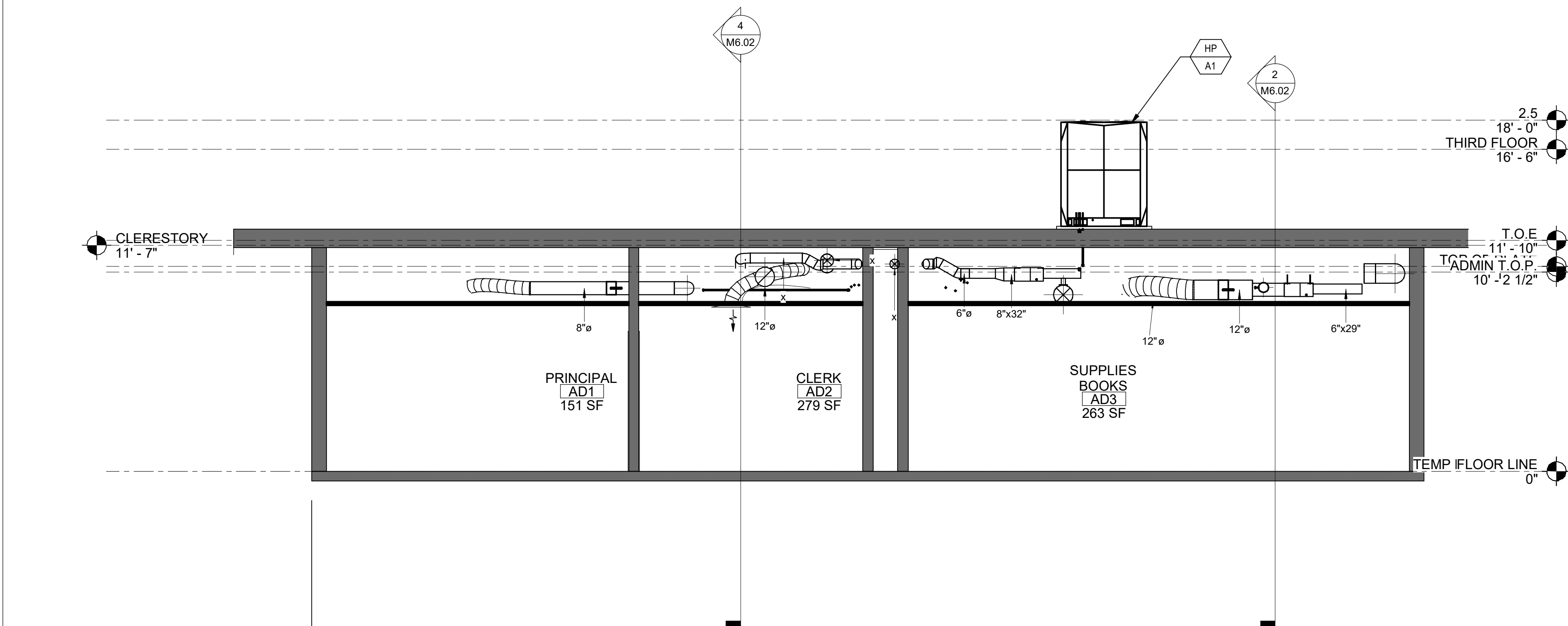
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SECTIONS -
CLASSROOM BLDG. B -
(TYPICAL)

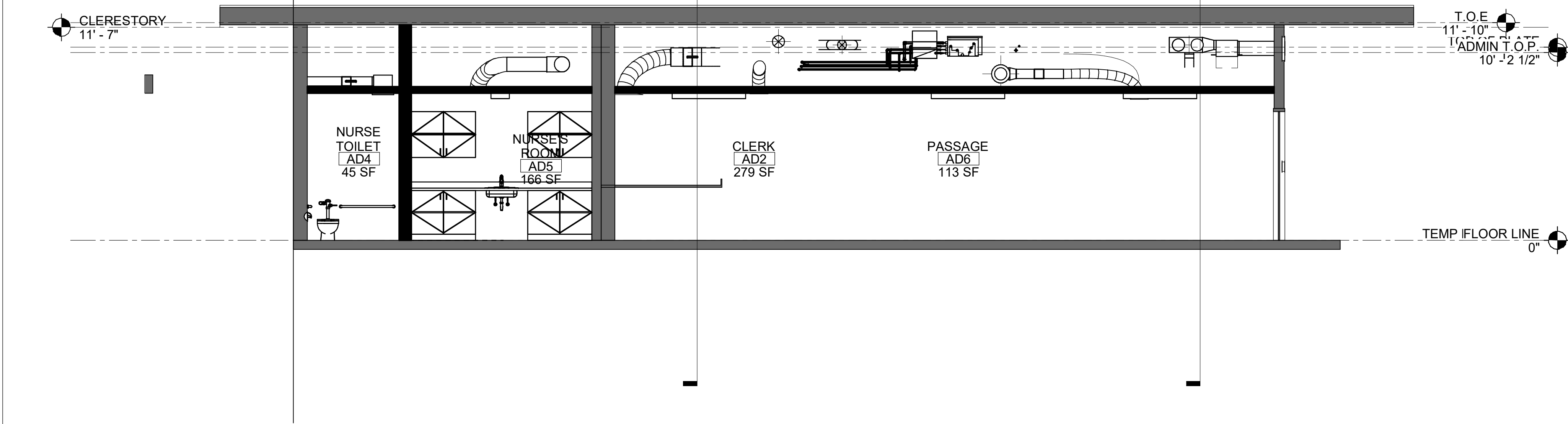
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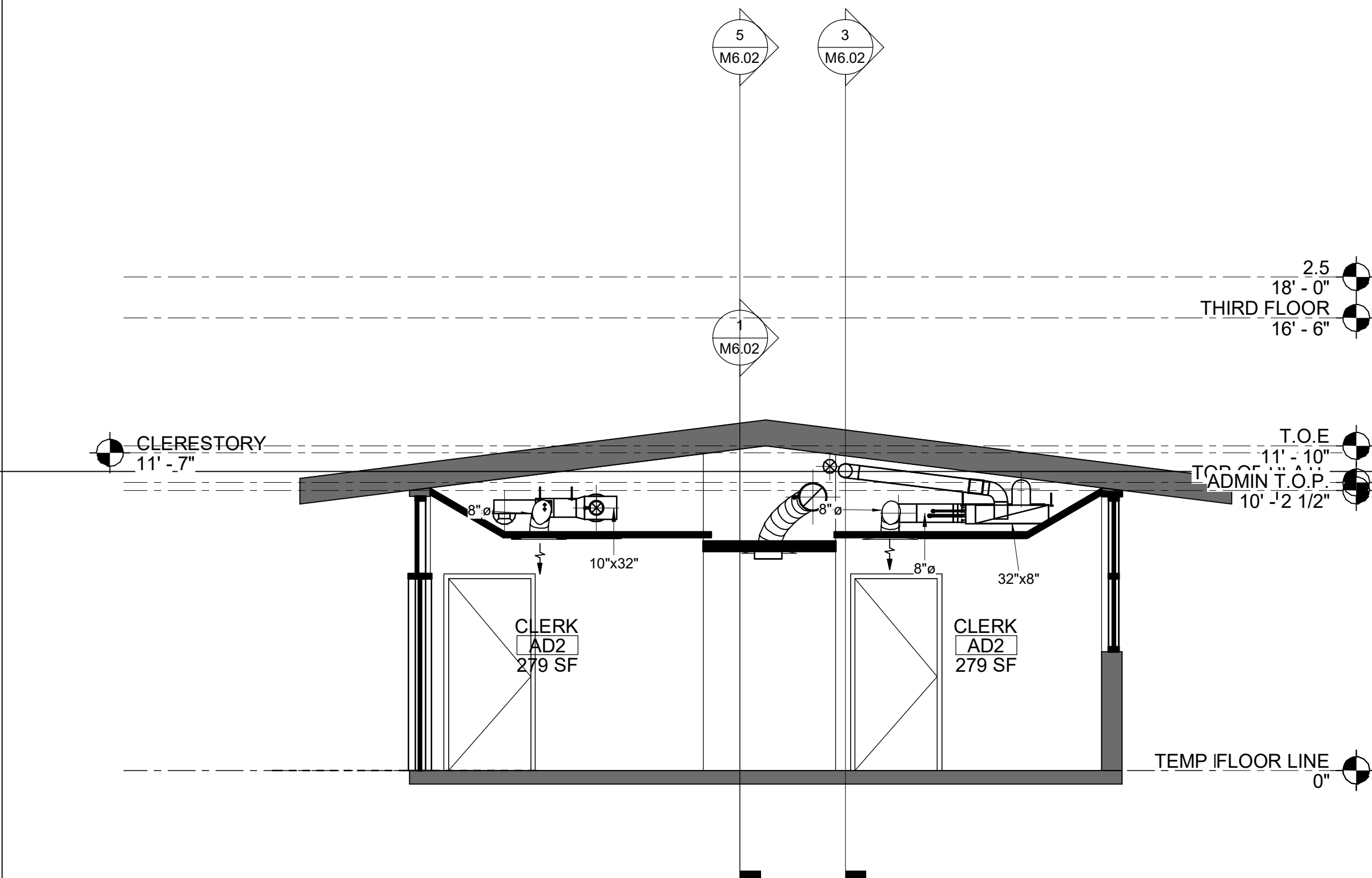
5 SECTION ADMINISTRATION
1/4" = 1'-0"



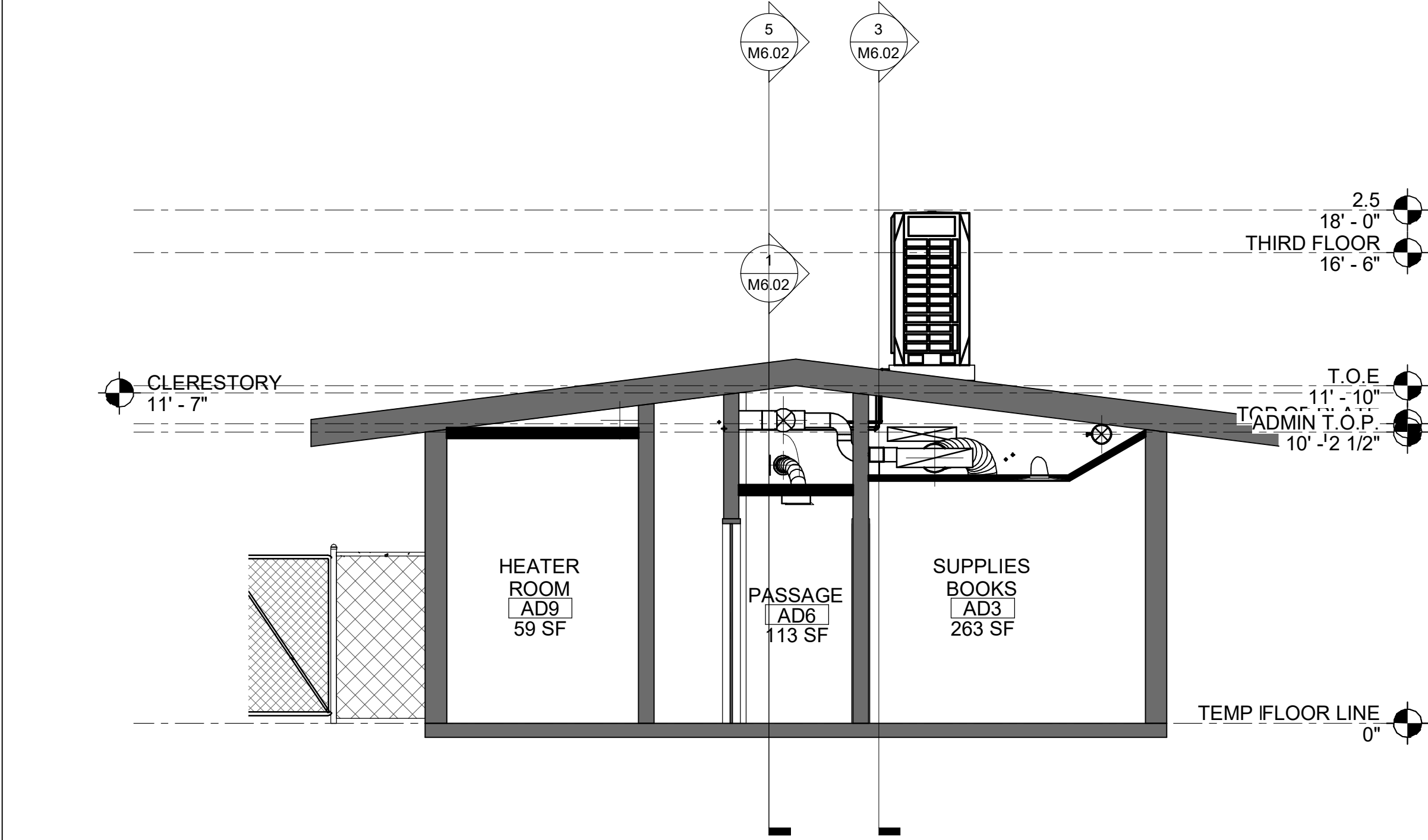
3 SECTION - ADMINISTRATION
1/4" = 1'-0"



1 SECTION - ADMINISTRATION BLDG - THROUGH VRV DISTRIBUTION BOX
1/4" = 1'-0"



4 SECTION - ADMINISTRATIVE BLDG.
1/4" = 1'-0"



2 SECTION ADMINISTRATION BLDG.
1/4" = 1'-0"

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














































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CONSULTANT
REGISTERED PROFESSIONAL ENGINEER
DAVID HUNG
No. M08155
Exp. 09-30-2024
STATE OF CALIFORNIA

Architect


CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 04-17-2023 PROJECT NUMBER 220309
REVISIONS
No. Description Date
DSA SUBMITTAL
SECTIONS -
ADMINISTRATION BLDG.

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), DOTS(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 THINWALL CONDUCTORS IN A SINGLE RACEWAY. GROUNDING CONDUCTOR IS NOT COUNTED. NOTE: HOMERUN INDICATES INSTALLATION OF NEW WIRE AND CONDUIT (#12 WIRE, 3/4", 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. GROSS 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 OPERATED. "MO" INDICATES SPDT MOMENTARY CONTACT. "Z" 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 PLUG 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-KT	CIRCUIT DESIGNATION WITH PREFIX "E" 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 OF 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 PAID 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 AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED TOOLS SHALL BE PROVIDED 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 3M CONTRACTOR PRODUCTS MINNEAPOLIS MN - 3M TEST REPORT NO. 1167 DATED AUGUST 21, 1987 FLAMESAFE FSP 1077 FIRESTOP PADS INTERNATIONAL PROTECTIVE COATINGS OKAHURST, NJ FSP FIRESTOP PUTTY PADS HEV-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.	
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 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. 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 VOLT 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.	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTION 1617A.1.24, 1617A.1.26, AND 1617A.1.28 THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHDP OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE 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 HANGER AND BRACE LOADS. 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"/> E <input 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"/> E <input type="checkbox"/> OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHDP PRE-APPROVAL (CPH # _____).	
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 2019 ASME A17.1 (CSA B44-13) 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	

DRAWING INDEX	
SHEET	DESCRIPTION
E0.00	ELECTRICAL SYMBOLS, LEGENDS AND NOTES
E0.01	ELECTRICAL TITLE 24
E0.02	ELECTRICAL TITLE 24
E1.00	ELECTRICAL SITE PLAN
E2.01	ELECTRICAL DEMOLITION FLOOR PLANS
E2.02	ELECTRICAL DEMOLITION FLOOR PLANS
E2.03	ELECTRICAL DEMOLITION LIGHTING PLANS
E2.04	ELECTRICAL DEMOLITION LIGHTING PLANS
E2.01	ELECTRICAL FLOOR PLANS
E3.01	ELECTRICAL LIGHTING PLANS
E3.02	ELECTRICAL LIGHTING PLANS
E4.01	ELECTRICAL ROOF PLANS
E5.01	ELECTRICAL SCHEDULES
E6.01	ELECTRICAL DETAILS
E6.02	ELECTRICAL SINGLE LINE DIAGRAM
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 LOCATION 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 EQUIPMENT IDENTIFICATION 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.	
MOUNTING OVER OBSTRUCTION DETAIL	
	
NOTE: 1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).	
UL LISTINGS NOTE	
ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S 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: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023



ARCHITECT
COSTA MESA
600 Arden Boulevard, Suite 1375
Costa Mesa, CA 92626
P 949-546-5000

PKB Architects, Inc.
pkb.com

CONSULTANT
LEAF ENGINEERS

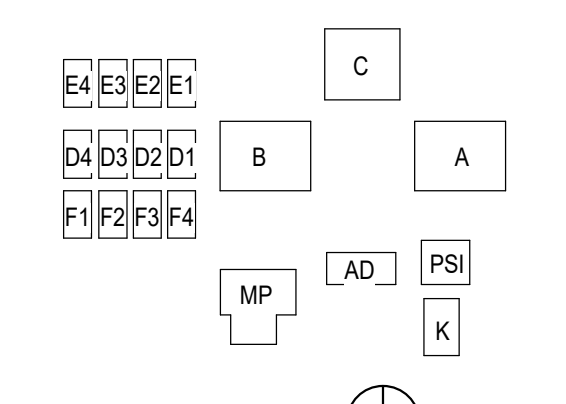

8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909-857-0808
leafengineers.com


WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

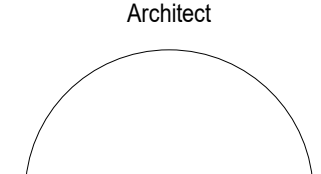
PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL. NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN



Consultant


Architect


CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SYMBOLS, LEGENDS AND NOTES

E0.00

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21)
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: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
Project Address: 14142 HOOVER ST WESTMINSTER, CA 92683
Report Page: Page 1 of 7
Date Prepared: 09/15/2022

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

A. GENERAL INFORMATION

01 Project Location (city)	WESTMINSTER	04 Total Conditioned Floor Area (ft ²)	12,835.76		
02 Climate Zone	6	05 Total Unconditioned Floor Area (ft ²)			
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)			
<input type="checkbox"/> Office	<input type="checkbox"/> Retail	<input type="checkbox"/> Warehouse	<input type="checkbox"/> Hotel/Motel	<input checked="" type="checkbox"/> School	<input type="checkbox"/> Support Areas
<input type="checkbox"/> Parking Garage	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Relocatable	<input type="checkbox"/> Healthcare	<input type="checkbox"/> 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 (ft ²)	Calculation Method	Area (ft ²)
<input checked="" type="checkbox"/> New Lighting System	Complete Building	12,835.76		
<input type="checkbox"/> Altered Lighting System				
Total Area of Work (ft ²)	12,835.76			

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.	Allowed Lighting Power per §140.6(b) (Watts)					Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	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)2G (+)	Tailored §140.6(c)3 (+)	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2 (+)	Total Adjusted (Watts) *includes Adjustments	05 Must be ≥ 08 §140.6		
	(See Table I)	(See Table I)	(See Table J)	(See Table K)		(See Table F)	(See Table P)				
Conditioned:	8,343.64				8,343.64	7,617		7,617	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
NRCC-LTI-E (Created 04/21)
CERTIFICATE OF COMPLIANCE
Project Name: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
Project Address: 14142 HOOVER ST WESTMINSTER, CA 92683
Report Page: Page 4 of 7
Date Prepared: 09/15/2022

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment
BLDG K	School Building	0.65	1,006.76	654.39	<input type="checkbox"/>
BLDG B	School Building	0.65	3,580	2,327	<input type="checkbox"/>
BLDG A	School Building	0.65	3,580	2,327	<input type="checkbox"/>
BLDG ADMIN	School Building	0.65	1,089.62	708.25	<input type="checkbox"/>
BLDG C	School Building	0.65	3,580	2,327	<input type="checkbox"/>
TOTAL:		12,836.38	8,343.64		See Tables J or P for detail

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

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

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Project Name: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
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NRCC-LTI-E

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 ¹	Watts per luminaire ²	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector
A	2X4	<input type="checkbox"/>	<input type="checkbox"/>	55	Mfr. Spec ³	135	<input type="checkbox"/>	7,425	<input type="checkbox"/>
F	1X4	<input type="checkbox"/>	<input type="checkbox"/>	32	Mfr. Spec ³	6	<input type="checkbox"/>	192	<input type="checkbox"/>
Total Designed Watts CONDITIONED SPACES:								7,617	

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)1A 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> April 2021

STATE OF CALIFORNIA
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NRCC-LTI-E (Created 04/21)
CERTIFICATE OF COMPLIANCE
Project Name: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
Project Address: 14142 HOOVER ST WESTMINSTER, CA 92683
Report Page: Page 5 of 7
Date Prepared: 09/15/2022

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

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

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: 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://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21)
CERTIFICATE OF COMPLIANCE
Project Name: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
Project Address: 14142 HOOVER ST WESTMINSTER, CA 92683
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CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

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
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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(b)	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
BLDG K	School Building	Manual ON/OFF	Dimmer	Occ. Sensor	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
BLDG B	School Building	Manual ON/OFF	Dimmer	Occ. Sensor	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
BLDG A	School Building	Manual ON/OFF	Dimmer	Occ. Sensor	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
BLDG ADMIN	School Building	Manual ON/OFF	Dimmer	Occ. Sensor	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
BLDG C	School Building	Manual ON/OFF	Dimmer	Occ. Sensor	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>

*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(a) are being used.

Conditioned Spaces

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

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Indoor Lighting
NRCC-LTI-E (Created 04/21)
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Project Name: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
Project Address: 14142 HOOVER ST WESTMINSTER, CA 92683
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Date Prepared: 09/15/2022

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: 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 any with a "*" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21)
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Project Name: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
Project Address: 14142 HOOVER ST WESTMINSTER, CA 92683
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Date Prepared: 09/15/2022

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: DIEGO HERRERA
Company: LEAF ENGINEERS
Address: 8163 ROCHESTER AVENUE, SUITE 100
City/State/Zip: RANCHO CUCAMONGA, CALIFORNIA 91730
Documentation Author Signature: Diego Herrera
Signature Date: 09/15/2022
CEA/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:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at completion.

Responsible Designer Name: RONALD DE LA CRUZ
Company: LEAF ENGINEERS
Address: 8163 ROCHESTER AVENUE, SUITE 100
City/State/Zip: RANCHO CUCAMONGA, CALIFORNIA 91730
Responsible Designer Signature: Ronald De La Cruz
Date Signed: 09/15/2022
License: E-23576
Phone: 909.987.0909

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PBK

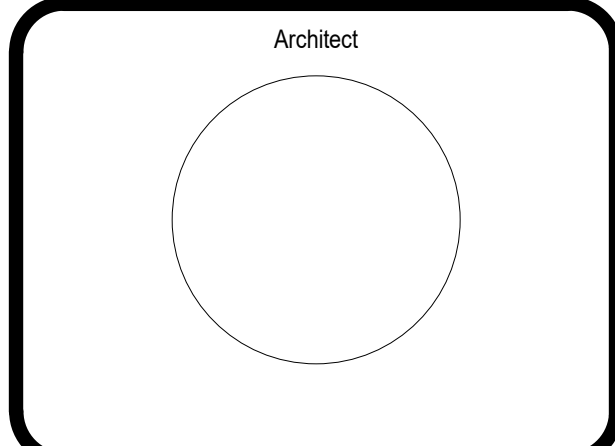
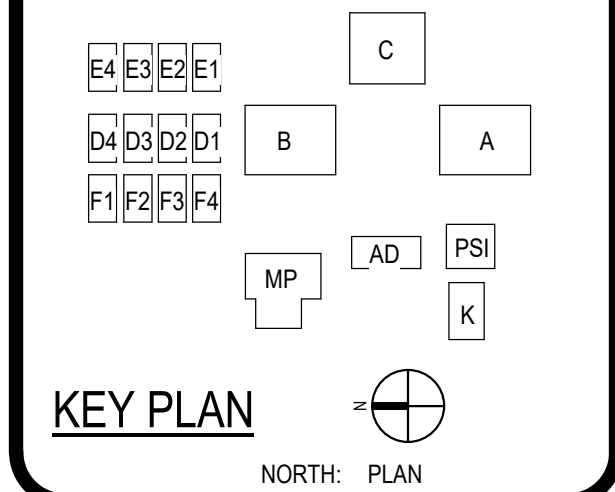
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leafengineers.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA FILE NO.: 30-43



CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE		PROJECT NUMBER
12-29-2022		220309
REVISIONS		
No.	Description	Date

DSA SUBMITTAL

ELECTRICAL TITLE 24

E0.01

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.2, and §141.0(b)(2), for outdoor lighting scopes using the prescriptive path.
Project Name: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
Project Address: 14142 HOOVER ST WESTMINSTER, CA 92683
Report Page: Page 1 of 7
Date Prepared: 09/15/2022

A. GENERAL INFORMATION

01 Project Location (city)

WESTMINSTER

04 Total Illuminated Hardscape Area (ft²)

7,462.43

02 Climate Zone

6

03 Outdoor Lighting Zone per Title 24, Part 1, §110.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland

☒ LZ-2: Moderate - Rural Areas

☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval

☐ LZ-1: Low - Developed Parkland

☐ LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.2 or §141.0(b)(2), for alterations.
My project consists of:

01

02

☒ New Lighting System

Must Comply with Allowances from §140.2.

☐ Altered Lighting System

Is your alteration increasing the connected lighting load (Watts)?

☒ Yes

☐ No

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.
*FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

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.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)

Compliance Results

01

02

03

04

05

06

07

08

09

General Hardscape Allowance §140.7(d)(1) (See Table I)

+

Per Application §140.7(d)(2) (See Table J)

+

Sales Frontage §140.7(d)(2) (See Table K)

+

Ornamental §140.7(d)(2) (See Table L)

+

Per Specific Area §140.7(d)(2) (See Table M)

OR

Existing Power §141.0(b)(2) (See Table N)

=

Total Allowed (Watts)

≥

Total Actual (Watts) (See Table F)

07 Must be ≥ 08

612.882

OR

612.882

≥

600

COMPLIES

Cutoff Compliance (See Table G for Details)

Not Applicable

Controls Compliance (See Table H for Details)

COMPLIES

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CERTIFICATE OF COMPLIANCE
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J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

Table Instructions: Please complete this table for areas using the wattage allowance per specific area type from Table 140.7-B. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01

02

03

04

05

06

07

08

09

10

Area Description

Specific Area Type per Table 140.7-B

CALCULATED ALLOWANCE (Watts) Specific Area (ft²)

Allowed Density (W/ft²)

Extra Allowance (Watts)

Luminaire Name or Item Tag

Watts per Luminaire²

of Luminaires²

Design Watts

Additional Allowance (Watts)

BLDG K

Bldg Façade

772.78

0.1

77.278

w

15

5

75

Total Design Watts for this Area:

75

75

BLDG B

Bldg Façade

2,135.24

0.1

213.524

w

15

13

195

Total Design Watts for this Area:

195

195

BLDG A

Bldg Façade

2,031.81

0.1

203.181

w

15

10

150

Total Design Watts for this Area:

150

150

BLDG ADMIN

Bldg Façade

728.82

0.1

72.882

w

15

5

75

Table Continued

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CERTIFICATE OF COMPLIANCE
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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. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.2 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2) (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Watts per luminaire^{1,2}

How Wattage is determined

Total number luminaires³

Luminaire Status³

Excluded per §140.7(a)

Design Watts

Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)*

Field Inspector

w

wall pack

☐ Linear

15

Mfr. Spec¹

40

New

600

NA: <6,200 lumens

☐

☐

Total Designed Watts:

600

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

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Project Name: WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION
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Date Prepared: 09/15/2022

01

02

03

04

05

06

07

08

09

10

Area Description

Specific Area Type per Table 140.7-B

CALCULATED ALLOWANCE (Watts) Specific Area (ft²)

Allowed Density (W/ft²)

Extra Allowance (Watts)

Luminaire Name or Item Tag

Watts per Luminaire³

of Luminaires²

Design Watts

Additional Allowance (Watts)

BLDG C

Bldg Façade

1,797.78

0.1

179.778

w

15

8

120

Total Design Watts for this Area:

120

120

Total Allowance (Watts) All Areas:

612.882

¹ FOOTNOTES: See Table 140.7-B for the rules for calculating the specific areas (ft²) for these additional lighting allowances.
² For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: 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/NRCC/

YES

NO

Form/Title

Field Inspector

☒

☐

NRCC-LTO-01-E - Must be submitted for all buildings.

☐

☐

☒

☐

NRCC-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.

☐

☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2021

STATE OF CALIFORNIA
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G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
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. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

Mandatory Controls

01

02

03

04

05

Area Description

Shut-Off §130.2(c)(1)

Auto-Schedule §130.2(c)(2)

Motion Sensor §130.2(c)(3)

Field Inspector

BLDG K

Photocontrol

Yes

NA: Wall ≥ 24ft

☐

☐

BLDG B

Photocontrol

Yes

NA: Wall ≥ 24ft

☐

☐

BLDG A

Photocontrol

Yes

NA: Wall ≥ 24ft

☐

☐

BLDG ADMIN

Photocontrol

Yes

NA: Wall ≥ 24ft

☐

☐

BLDG C

Photocontrol

Yes

NA: Wall ≥ 24ft

☐

☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01

☐ General Hardscape Allowance

☐ Per Application

☐ Sales Frontage

☐ Ornamental

☒ Per Specific Area

Table I (below)

Table J

Table K

Table L

Table M

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STATE OF CALIFORNIA
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P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/atcc/providers.html>

YES

NO

Form/Title

Field Inspector

☒

☐

NRCC-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.

☐

☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2021

STATE OF CALIFORNIA
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NRCC-LTO-E (Created 01/21)
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CERTIFICATE OF COMPLIANCE
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Project Address: 14142 HOOVER ST WESTMINSTER, CA 92683
Report Page: Page 7 of 7
Date Prepared: 09/15/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:

DIEGO HERRERA

Documentation Author Signature:

Diego Herrera

Company:

LEAF ENGINEERS

Signature Date:

09/15/2022

Address:

8163 ROCHESTER AVENUE, SUITE 100

CEA/ HERS Certification Identification (if applicable):

City/State/Zip:

RANCHO CUCAMONGA, CALIFORNIA

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 DE LA CRUZ

Responsible Designer Signature:

Ronald De La Cruz

Company :

LEAF ENGINEERS

Date Signed:

09/15/2022

Address:

8163 ROCHESTER AVENUE, SUITE 100

License:

E-23576

City/State/Zip:

RANCHO CUCAMONGA, CALIFORNIA

Phone:

909.987.0909

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2021

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC.
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023

PRK

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COSTA MESA
600 Anton Boulevard, Suite 1375
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PBK.com

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

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL

DSA FILE NO.: 04-21818 DSA FILE NO.: 30-43

E1 E2 E3 E4

D1 D2 D3 D4

F1 F2 F3 F4

C

B

A

MP

AD

PSI

K

KEY PLAN

NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
No. E 23576
Exp. 08/30/2025
R. DE LA CRUZ
ELECTRICAL
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE
12-29-2022
PROJECT NUMBER
220309

REVISIONS

No.

Description

Date

DSA SUBMITTAL

ELECTRICAL TITLE 24

E0.02

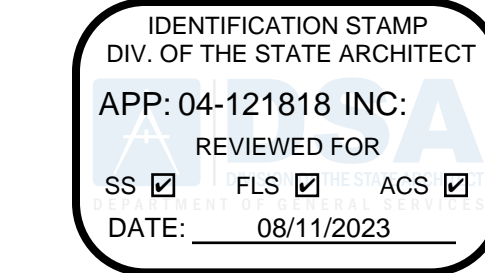


GENERAL NOTES

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. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
5. CONTRACTORS 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

1. SCOPE OF WORK.
2. EXISTING MAIN SWITCHBOARD 120/208V, 3PH, 4W - 1200A
3. EXISTING PANEL 'C3' TO BE REPLACED WITH NEW PANEL 'A1' SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR FURTHER DETAILS.
4. PROVIDE NEW PANEL 'B1' SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR FURTHER DETAILS.
5. EXISTING PANEL 'C2' TO BE REPLACED WITH NEW PANEL 'C1' SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR FURTHER DETAILS.
6. EXISTING PANEL 'K1' TO BE REPLACED WITH NEW PANEL 'K1' SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR FURTHER DETAILS.
7. EXISTING PANEL 'A' TO BE REPLACED WITH NEW PANEL 'AD1' SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR FURTHER DETAILS.
8. SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR ALL CONDUIT AND WIRE SIZING.
9. TRENCH AND EXCAVATE AS REQUIRED TO INSTALL CONDUITS AND FEEDERS AS INDICATED, STUB UP INTO EXTERIOR ABOVE GROUND AND INTO JUNCTION BOX. REFER TO DETAIL 11E.1 FOR FURTHER CONDUIT TRENCHING REQUIREMENTS.

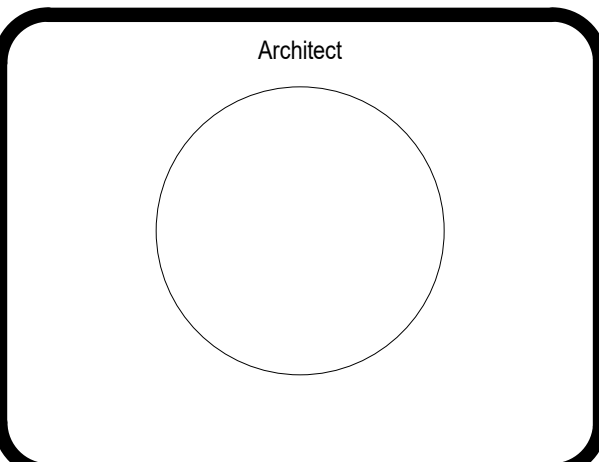
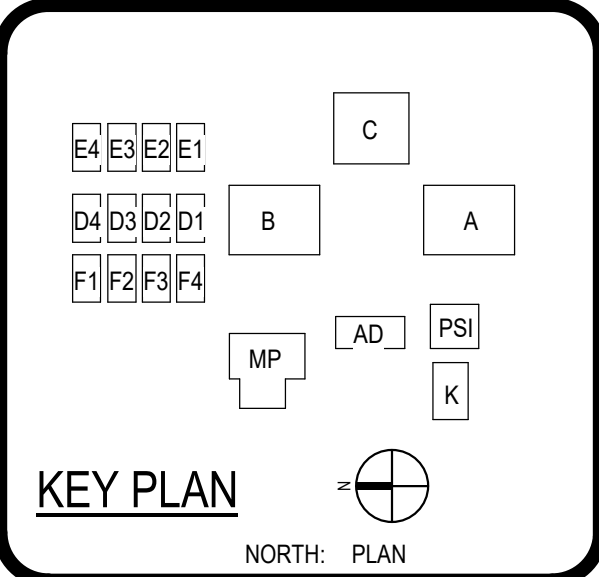


WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

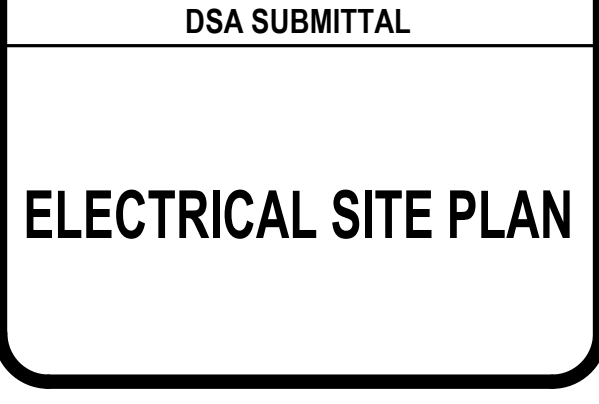
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14142 Hoover St
Westminster, CA 92683

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DSA FILE NO. 04-121518 DSA FILE NO. 30-43

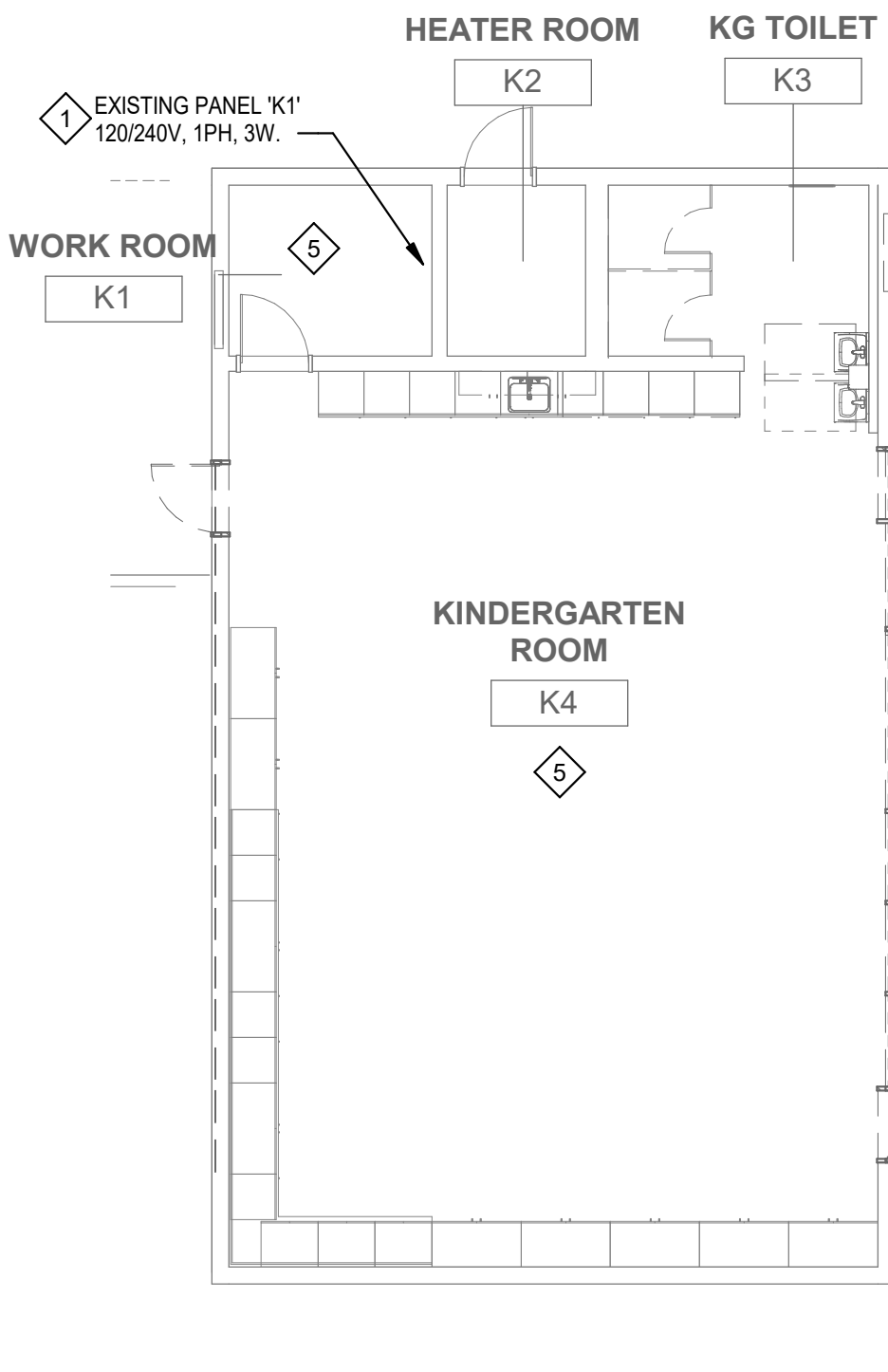


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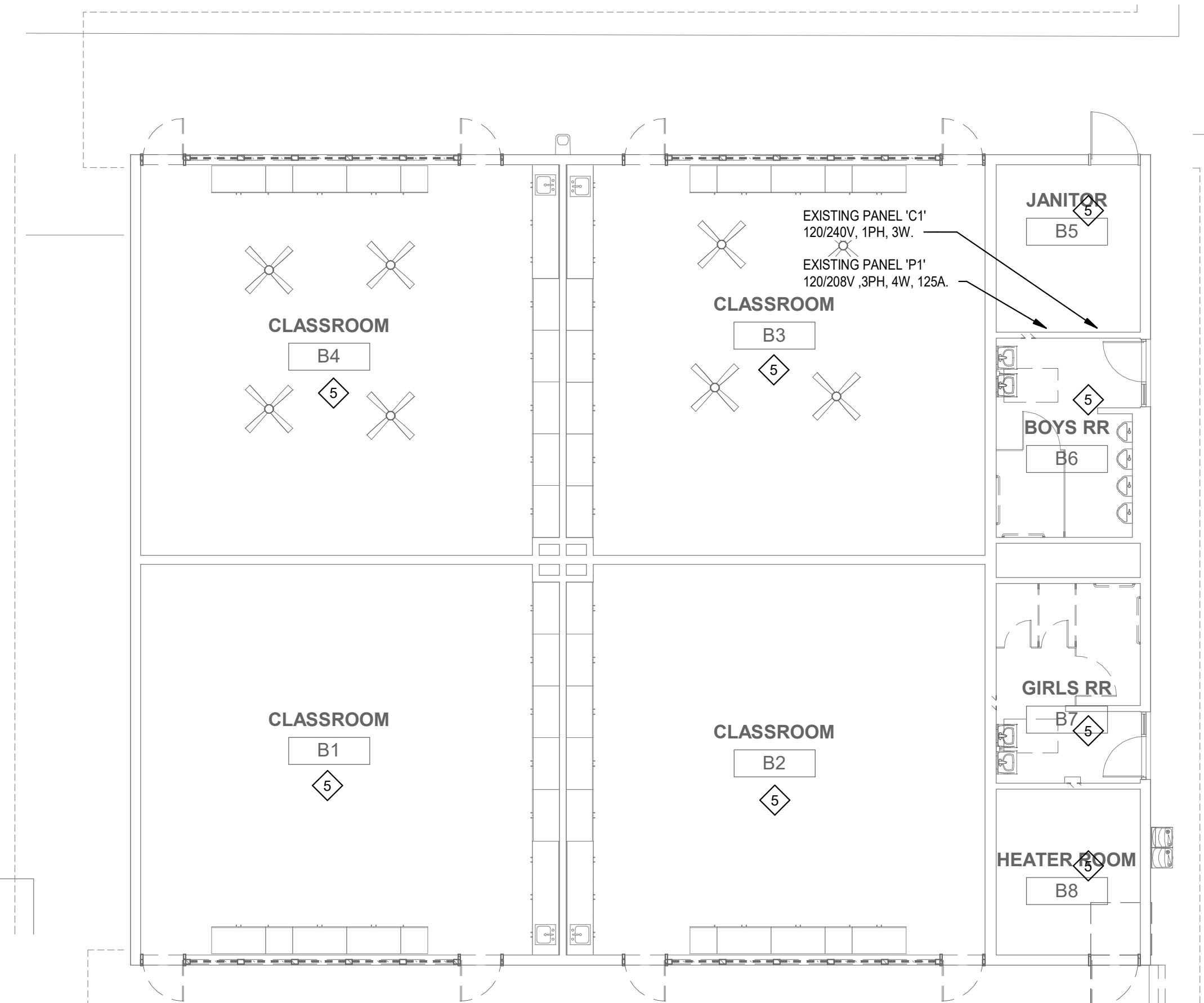
6 BLDG K - ROOF PLAN - DEMO

1/8" = 1'-0"



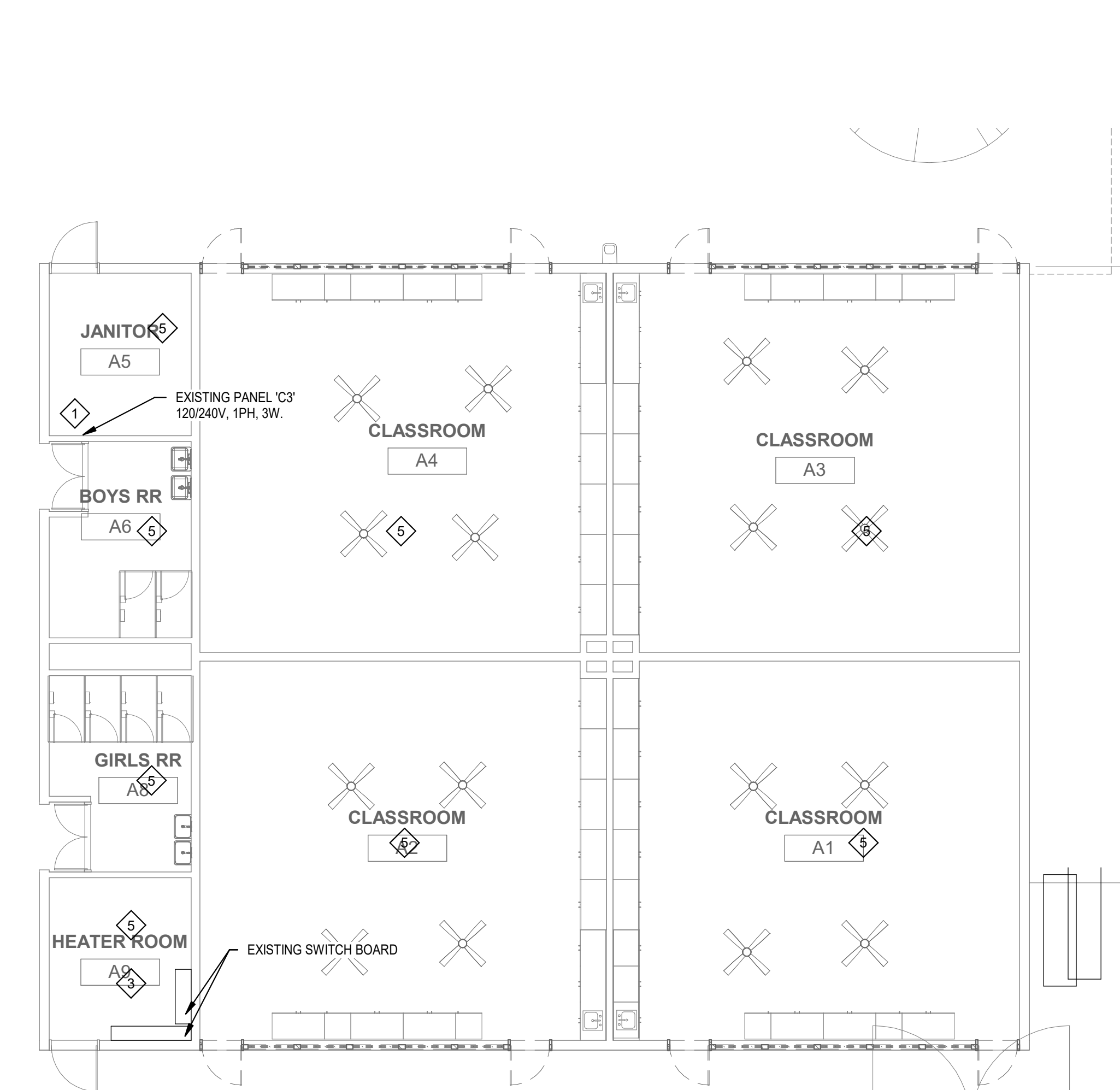
5 BLDG B - CLERESTORY PLAN - DEMO

1/8" = 1'-0"



4 BLDG A - CLERESTORY PLAN - DEMO

1/8" = 1'-0"



3 BLDG K - FLOOR PLAN - DEMO

1/8" = 1'-0"



2 BLDG B - FLOOR PLAN - DEMO

1/8" = 1'-0"



1 BLDG A - FLOOR PLAN - DEMO

1/8" = 1'-0"



GENERAL NOTES

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2. UNLESS OTHERWISE NOTED ALL EXISTING RECEPTACLES SHALL REMAIN IN PLACE.

KEY NOTES

- 1. EXISTING PANEL TO BE REMOVED, AND REPLACED. ALL EXISTING BRANCH CIRCUITS SHALL BE INTERCEPTED AND RELOCATED TO THE NEW PANEL.
- 2. NOT USED.
- 3. EXISTING SWITCH BOARD TO REMAIN.
- 4. EXISTING PANEL TO REMAIN.
- 5. CONTRACTOR TO DEMOLISH EXISTING HVAC UNITS AND ALL ASSOCIATED CONDUIT/DEVICES. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

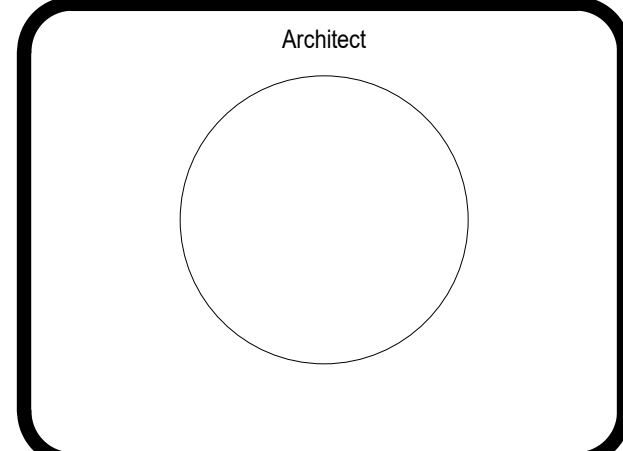
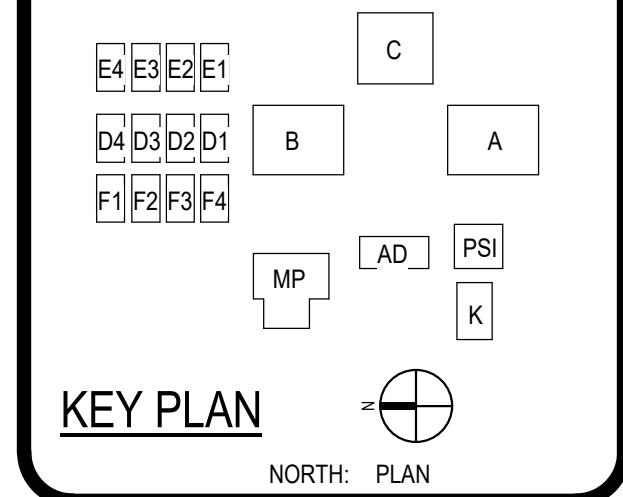
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
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DATE: 08/11/2023

PBK

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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DSA APPL. NO. 04-121818 DSA FILE NO. 30-43



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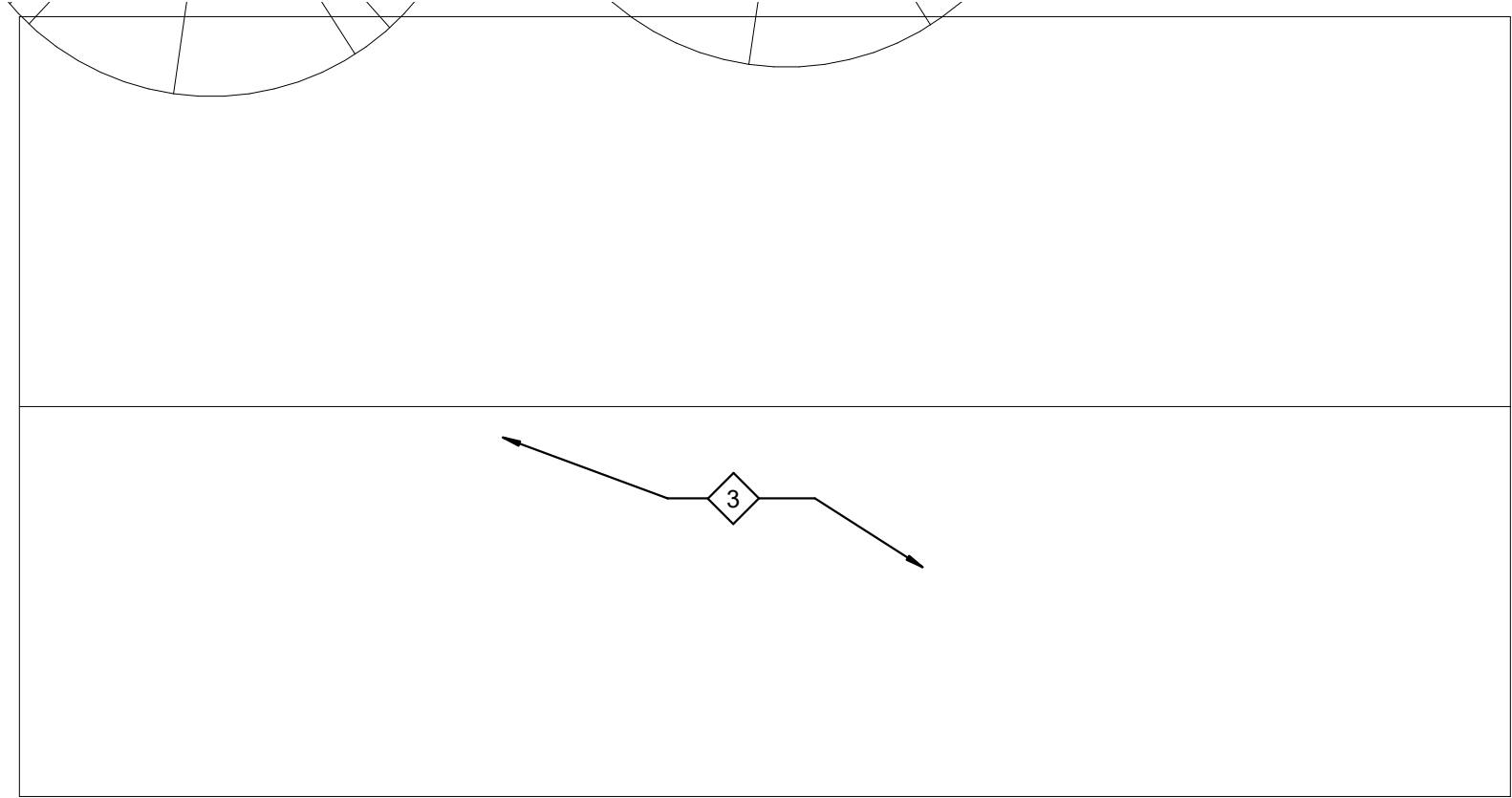
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ELECTRICAL
DEMOLITION FLOOR
PLANS

ED2.01

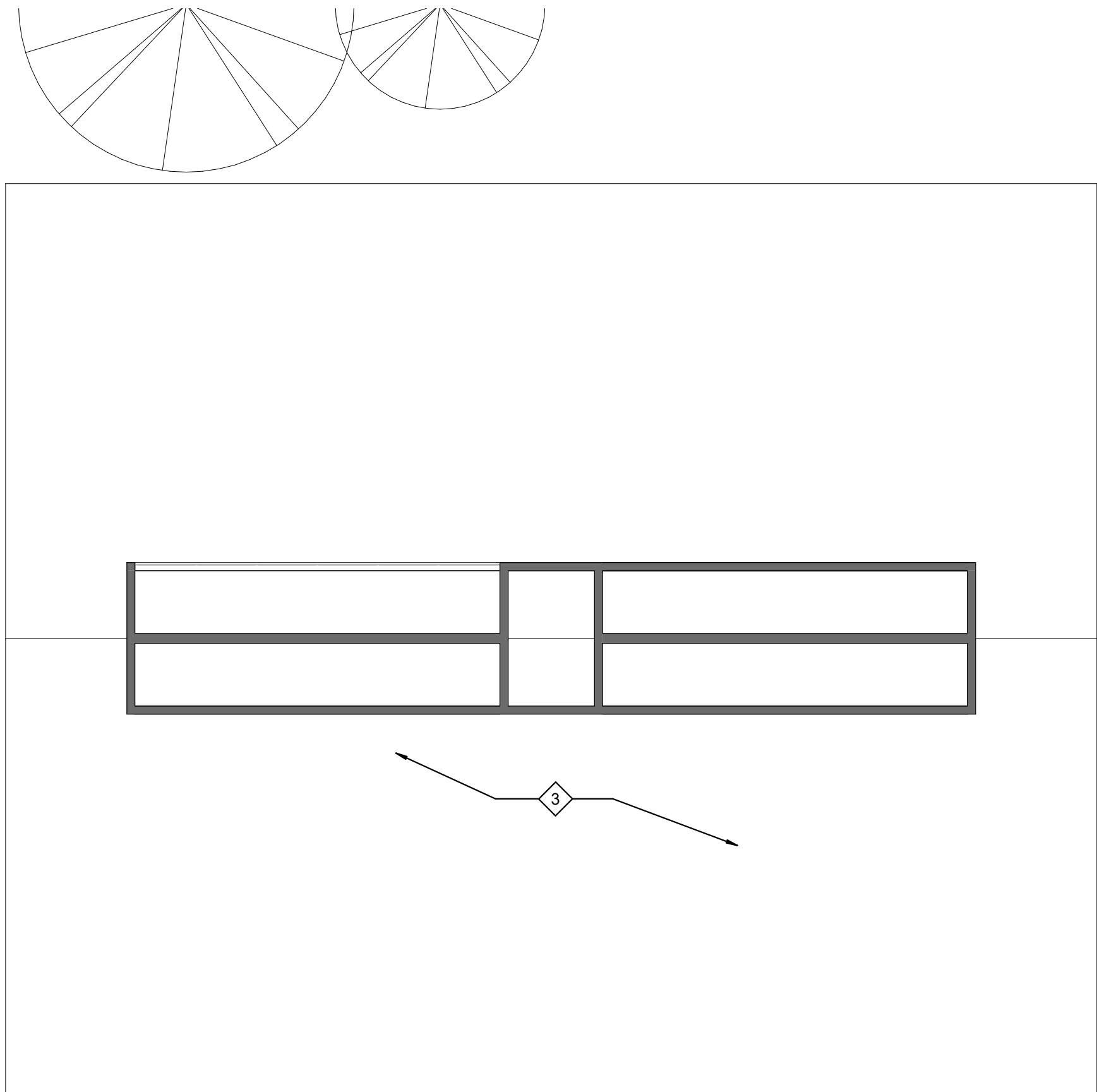
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1/8" = 1'-0"



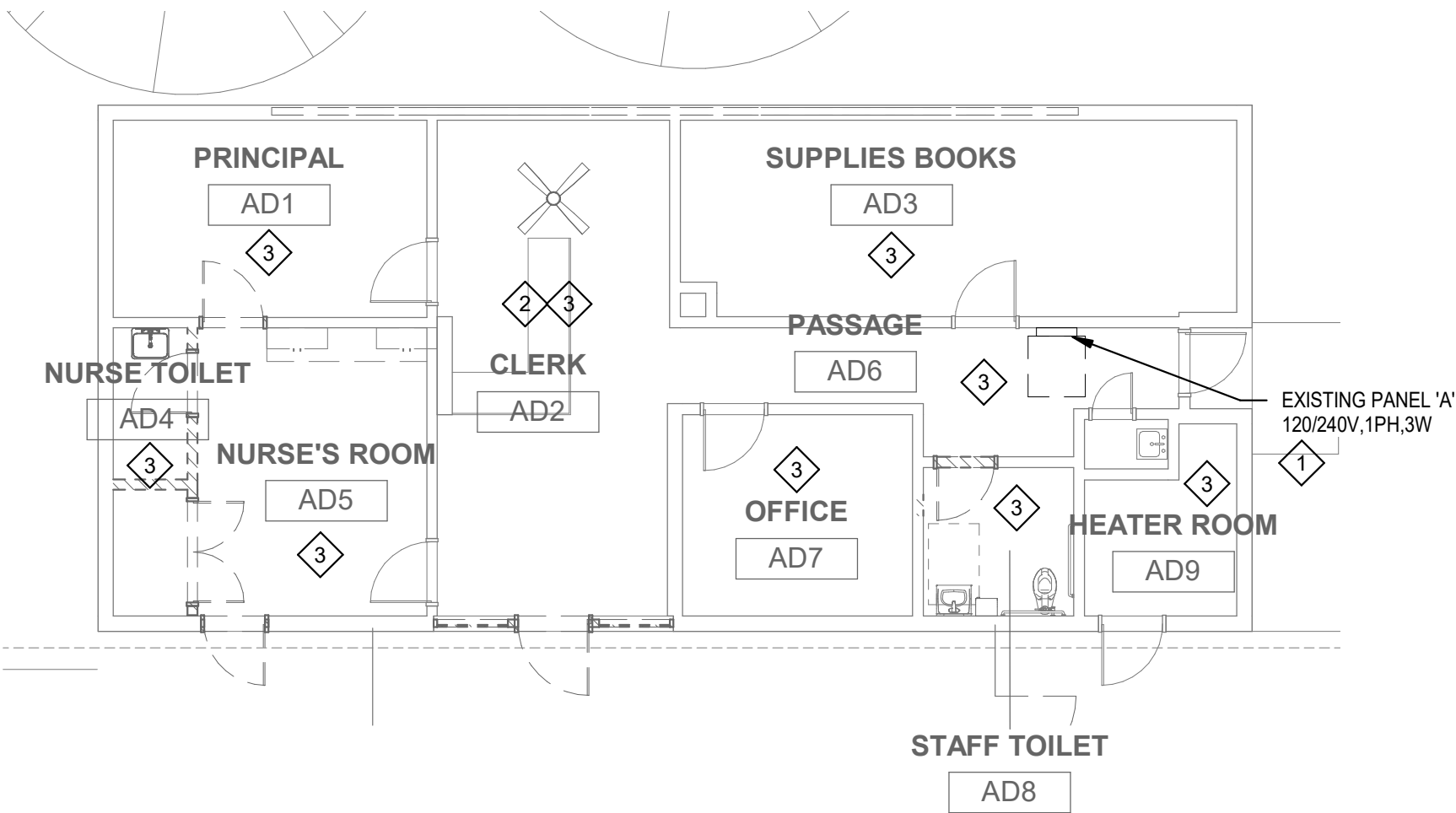
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1/8" = 1'-0"



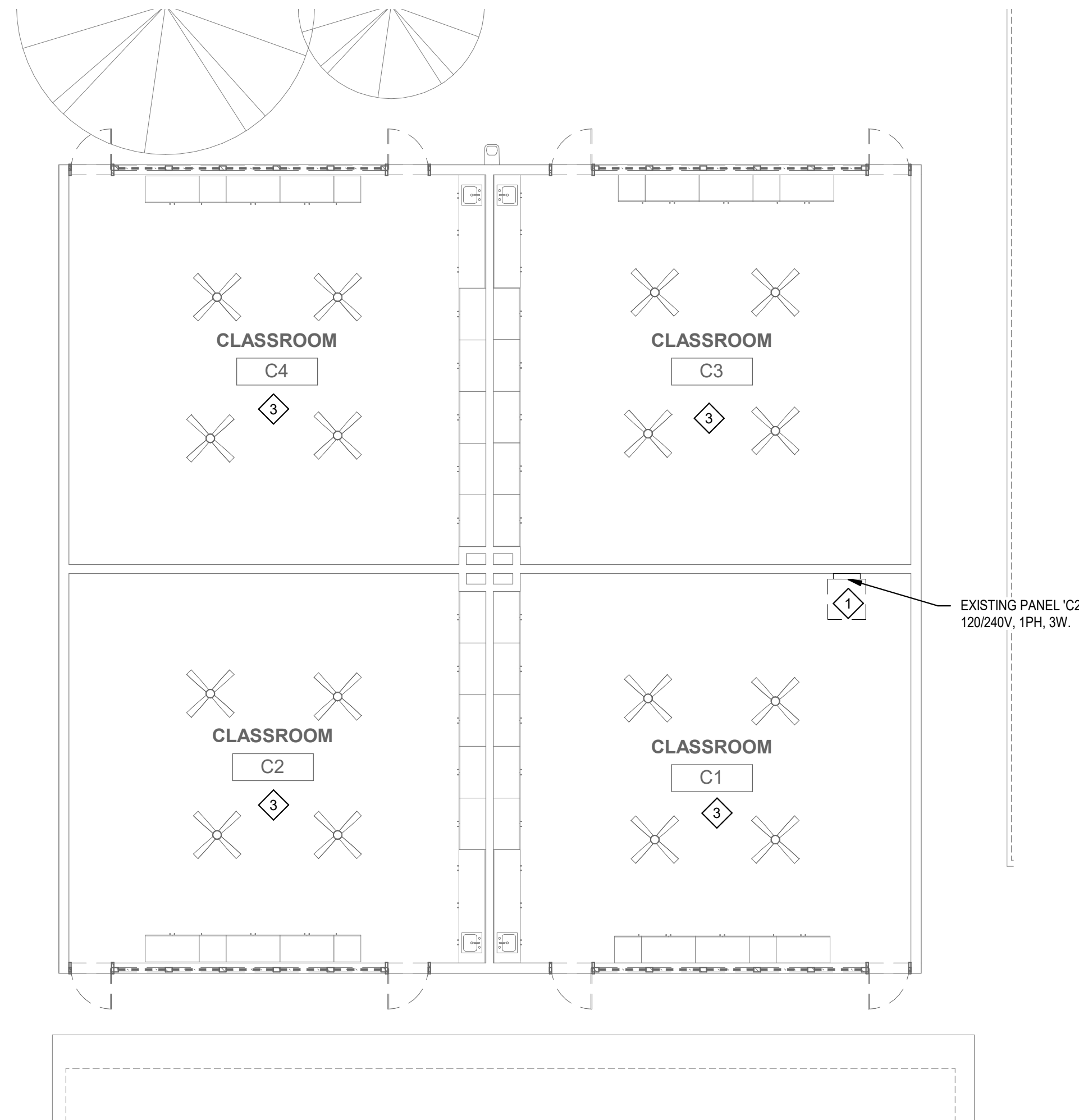
2 BLDG ADMIN - FLOOR PLAN - DEMO

1/8" = 1'-0"



1 BLDG C - FLOOR PLAN - DEMO

1/8" = 1'-0"



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KEY NOTES

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- 3. CONTRACTOR TO DEMOLISH EXISTING HVAC UNITS AND ALL ASSOCIATED CONDUIT/DEVICES. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

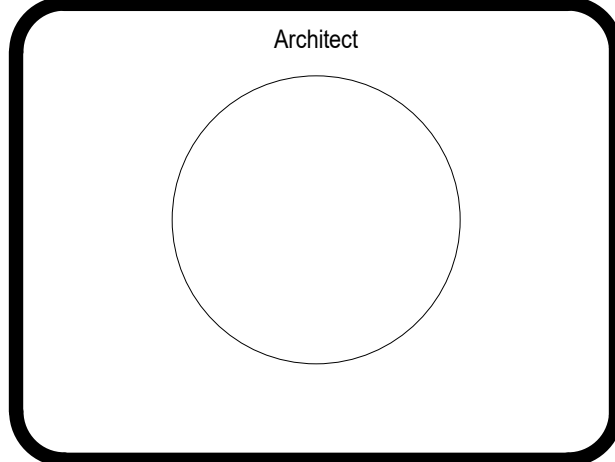
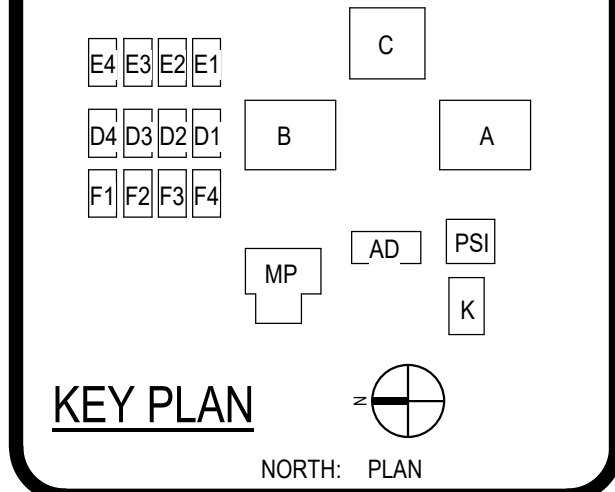
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

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DSA SUBMITTAL
DSA APPL. NO. 04-121818 DSA FILE NO. 30-43



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WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-29-2022	220309	
REVISIONS		
No.	Description	Date

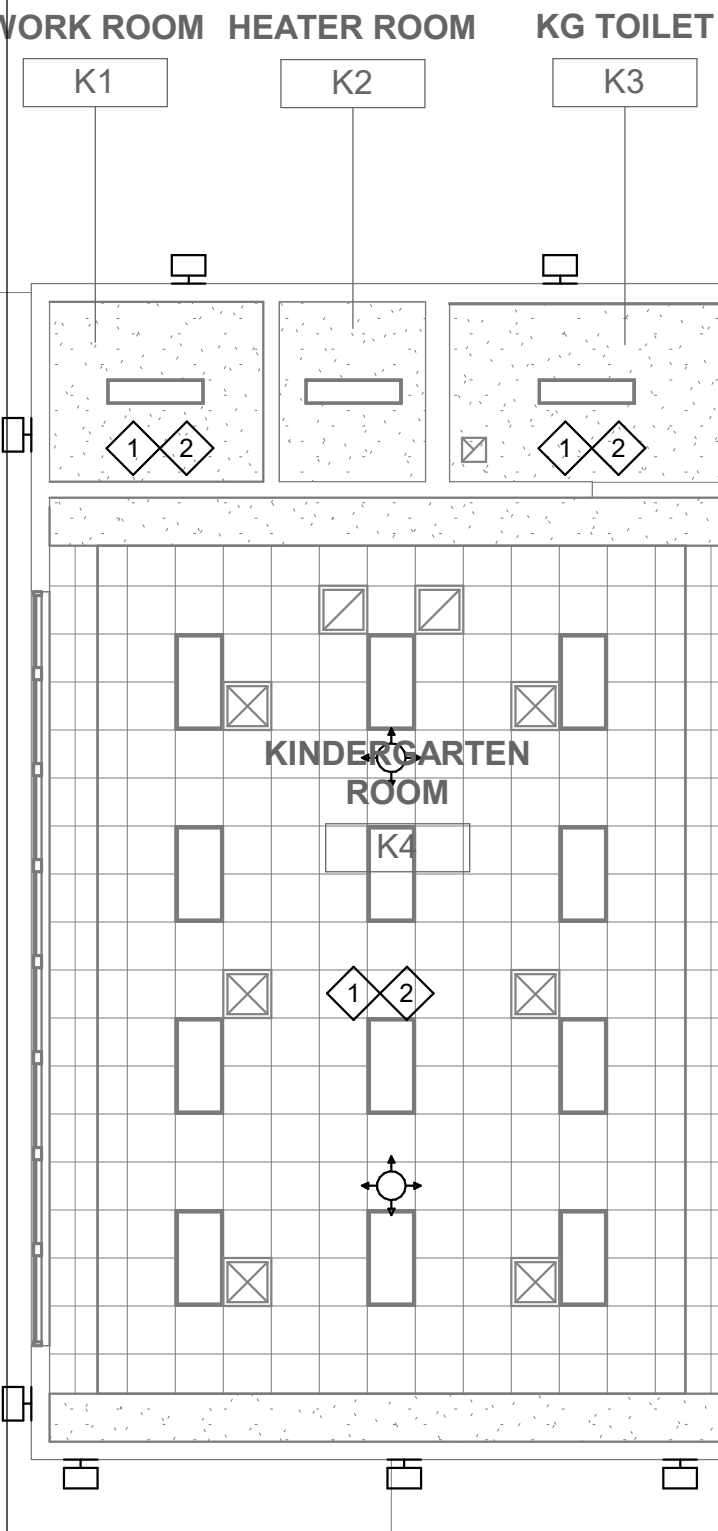
DSA SUBMITTAL

ELECTRICAL
DEMOLITION FLOOR
PLANS

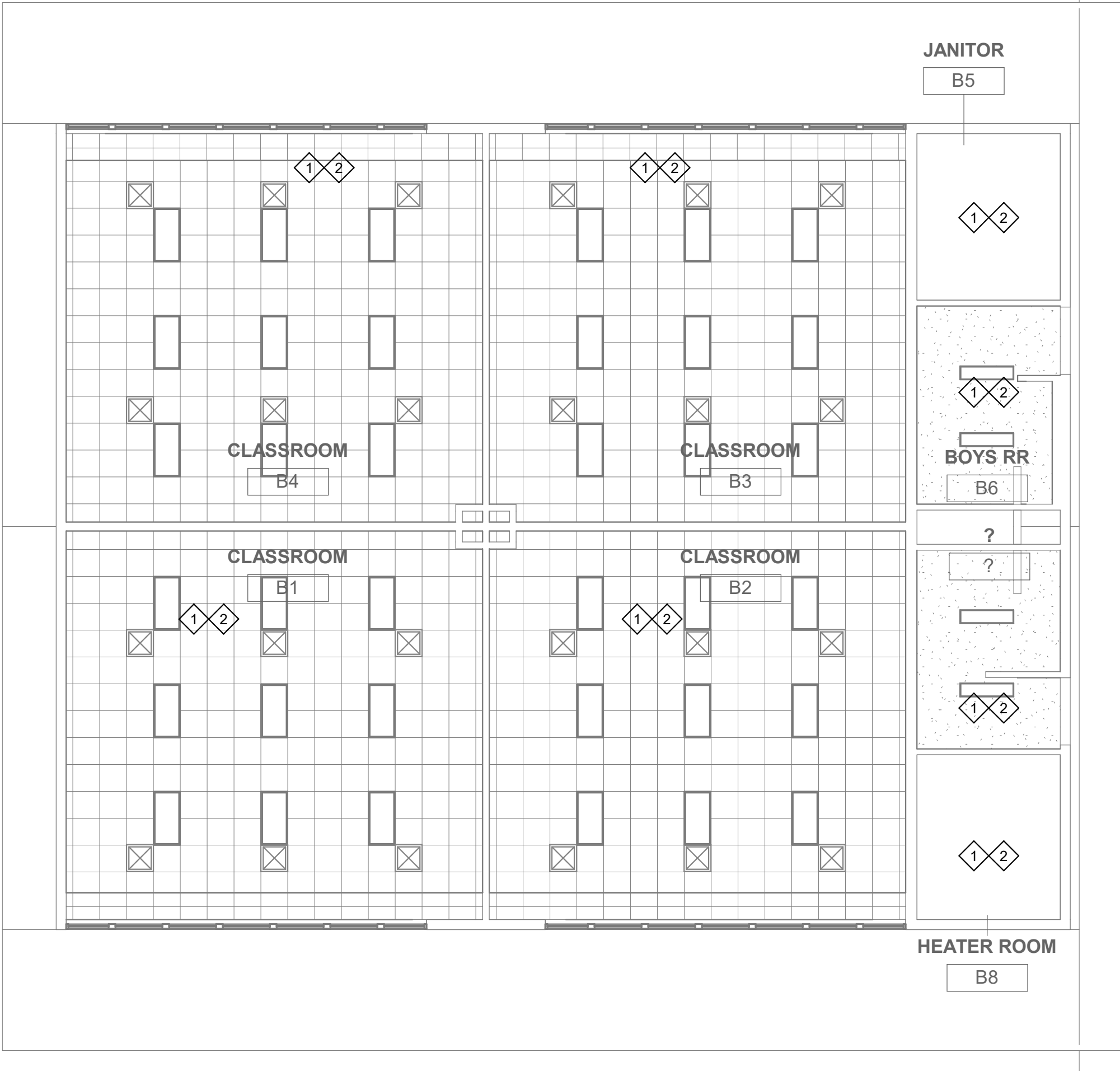
ED2.02

0" 1"

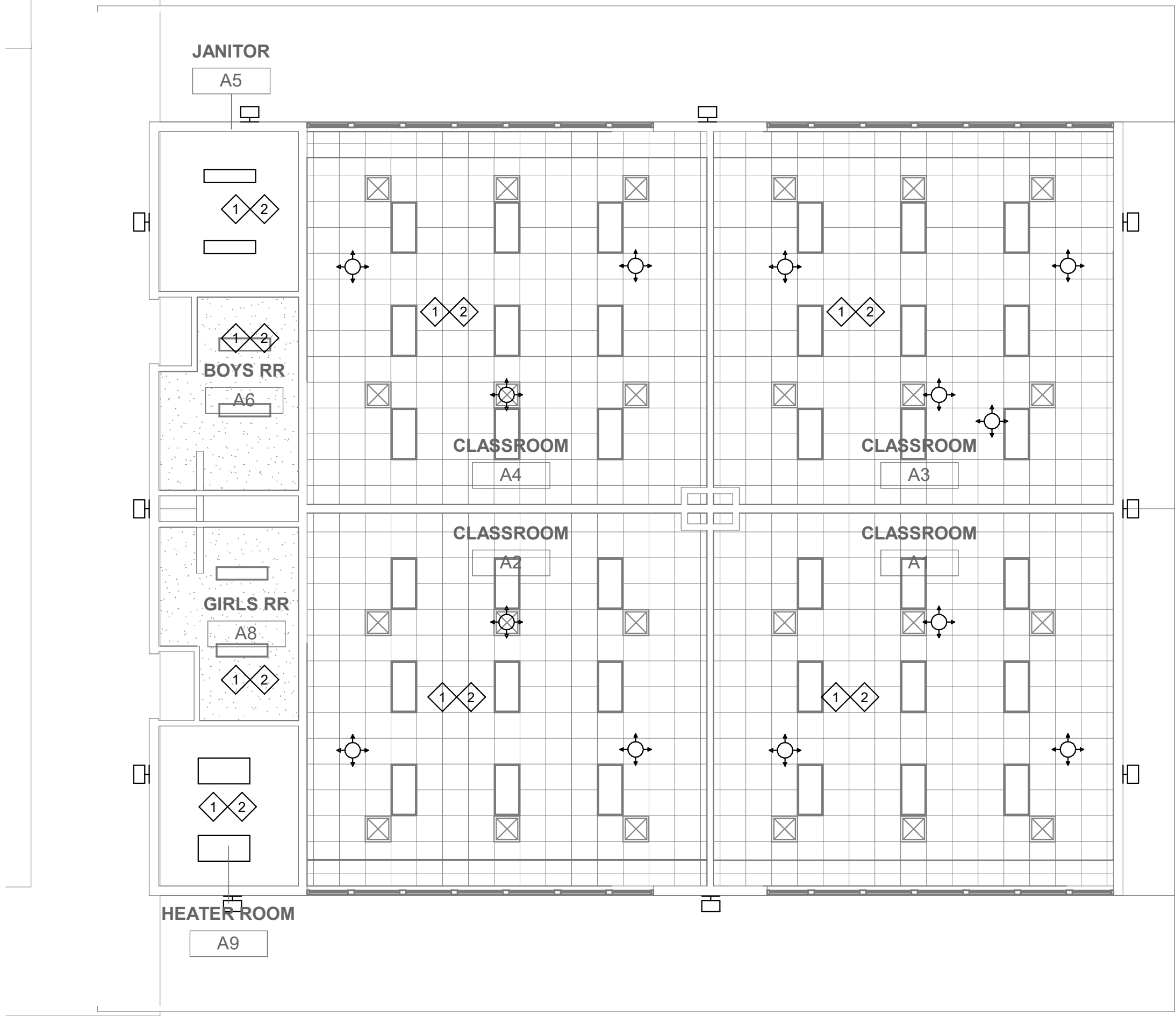
3 BLDG K - LIGHTING PLAN DEMO
1/8" = 1'-0"



2 BLDG B - LIGHTING PLAN DEMO
1/8" = 1'-0"



1 BLDG A - LIGHTING PLAN DEMO
1/8" = 1'-0"



GENERAL NOTES

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2. FOR ALL EXISTING CEILING MOUNTED DEVICES THAT WILL BE AFFECTED BY DEMOLITION OF EXISTING CEILINGS, INCLUDING BUT NOT LIMITED TO SECURITY MOTION DETECTORS, ETC, CONTRACTOR TO CAREFULLY DISCONNECT AND RE-INSTALL DEVICES ONTO THE NEW CEILINGS. DOCUMENT EXISTING LOCATIONS PRIOR TO DEMOLITION AND RE-INSTALL TO MATCH LOCATIONS. EXTEND EXISTING WIRING AS NEEDED.

KEY NOTES

- EXISTING LIGHT FIXTURES IN THE SCOPE OF WORK AREA SHALL BE REMOVED. ALL CONDUITS, MC CABLES, AND WIRES SHALL BE DEMOLISHED BACK TO PANEL BOARD SOURCE. CONTRACTOR TO DEMOLISH AND PROVIDE CIRCUIT CONTINUITY TO DOWNSTREAM DEVICES/EQUIPMENT WHICH REMAIN. VERIFY EXACT SCOPE OF DEMOLITION WITH ARCHITECTURAL PLANS.
- REMOVE ANY UNUSED CONDUITS AND RELOCATE EXISTING TO ALLOW SPACE FOR NEW DUCTS AND CONDUITS.

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APP. NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN

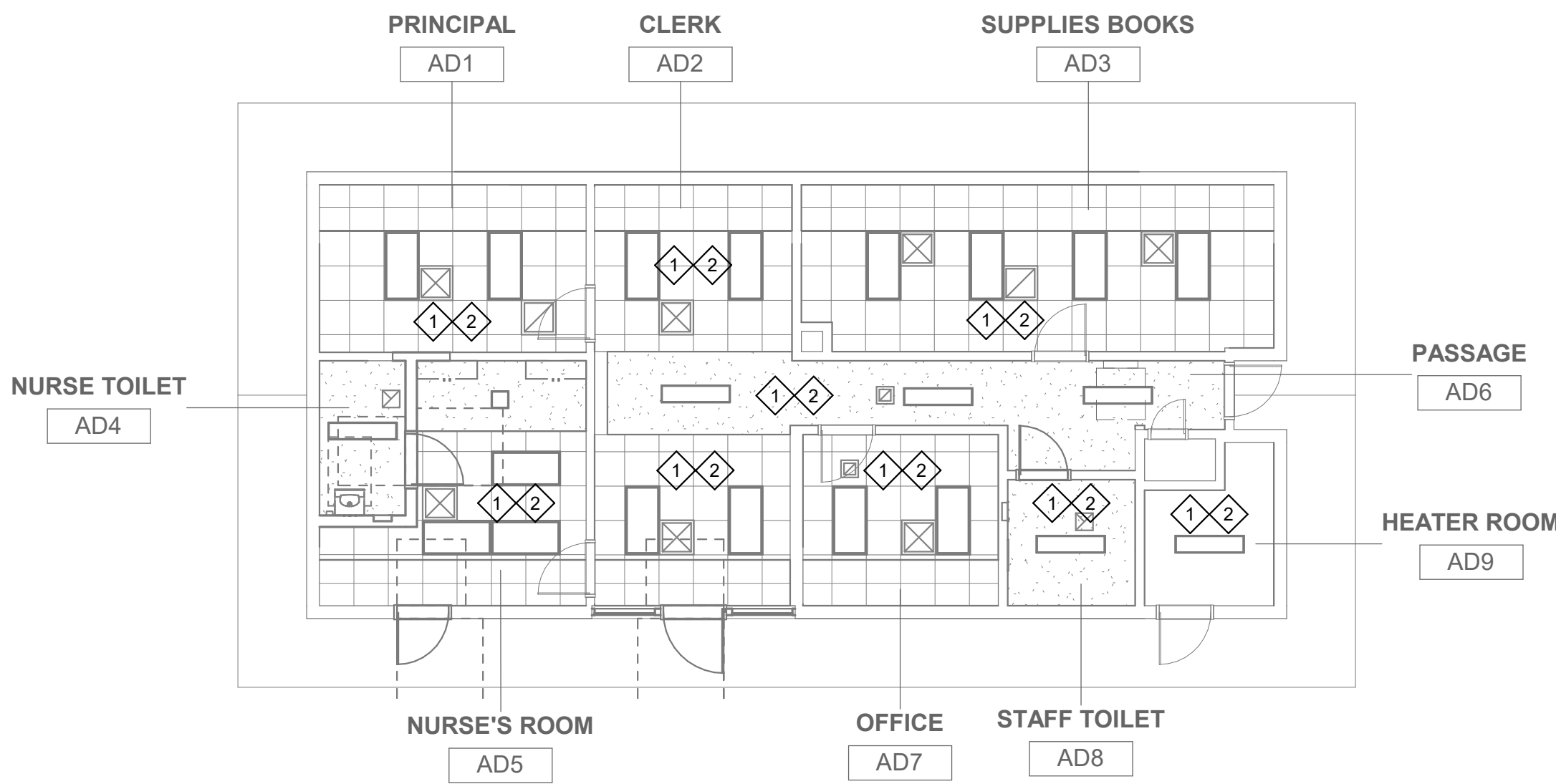
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REGISTERED PROFESSIONAL ENGINEER
No. E 23576
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ELECTRICIAN
STATE OF CALIFORNIA

Architect

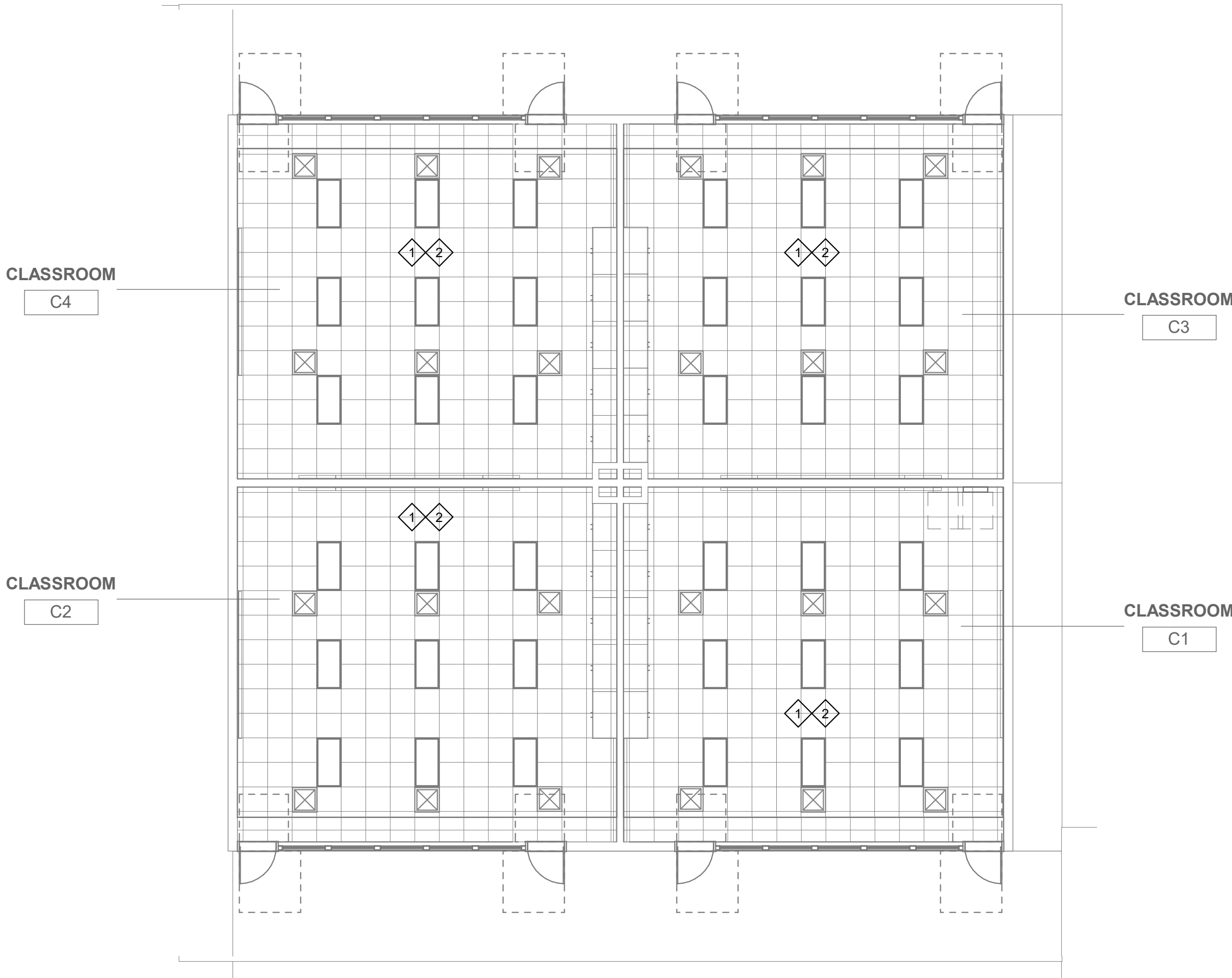
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REVISIONS
No. Description Date

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ELECTRICAL
DEMOLITION LIGHTING
PLANS

2 BLDG ADMIN - LIGHTING PLAN DEMO
1/8" = 1'-0"



1 BLDG C - LIGHTING PLAN DEMO
1/8" = 1'-0"



GENERAL NOTES

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2. FOR ALL EXISTING CEILING MOUNTED DEVICES THAT WILL BE AFFECTED BY DEMOLITION OF EXISTING CEILINGS, INCLUDING BUT NOT LIMITED TO SECURITY MOTION DETECTORS, ETC, CONTRACTOR TO CAREFULLY DISCONNECT AND RE-INSTALL DEVICES ONTO THE NEW CEILINGS. DOCUMENT EXISTING LOCATIONS PRIOR TO DEMOLITION AND RE-INSTALL TO MATCH LOCATIONS. EXTEND EXISTING WIRING AS NEEDED.

KEY NOTES

- EXISTING LIGHT FIXTURES IN THE SCOPE OF WORK AREA SHALL BE REMOVED. ALL CONDUITS MC CABLES, AND WIRES SHALL BE DEMOLISHED BACK TO PANEL BOARD SOURCE. CONTRACTOR TO DEMOLISH AND PROVIDE CIRCUIT CONTINUITY TO DOWNSTREAM DEVICES/EQUIPMENT WHICH REMAIN. VERIFY EXACT SCOPE OF DEMOLITION WITH ARCHITECTURAL PLANS.
- REMOVE ANY UNUSED CONDUITS AND RELOCATE EXISTING TO ALLOW SPACE FOR NEW DUCTS AND CONDUITS.

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APP. NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN

Diagram showing the layout of the building with rooms labeled A through K, including Principal's office (AD1), Clerk's office (AD2), Supplies Books room (AD3), Nurse's Room (AD5), Office (AD7), Staff Toilet (AD8), Nurse Toilet (AD4), Passage (AD6), and Heater Room (AD9).

Consultant
REGISTERED PROFESSIONAL ENGINEER
No. E 23576
Exp. 12/31/2024
ELECTRICIAN
STATE OF CALIFORNIA

Architect

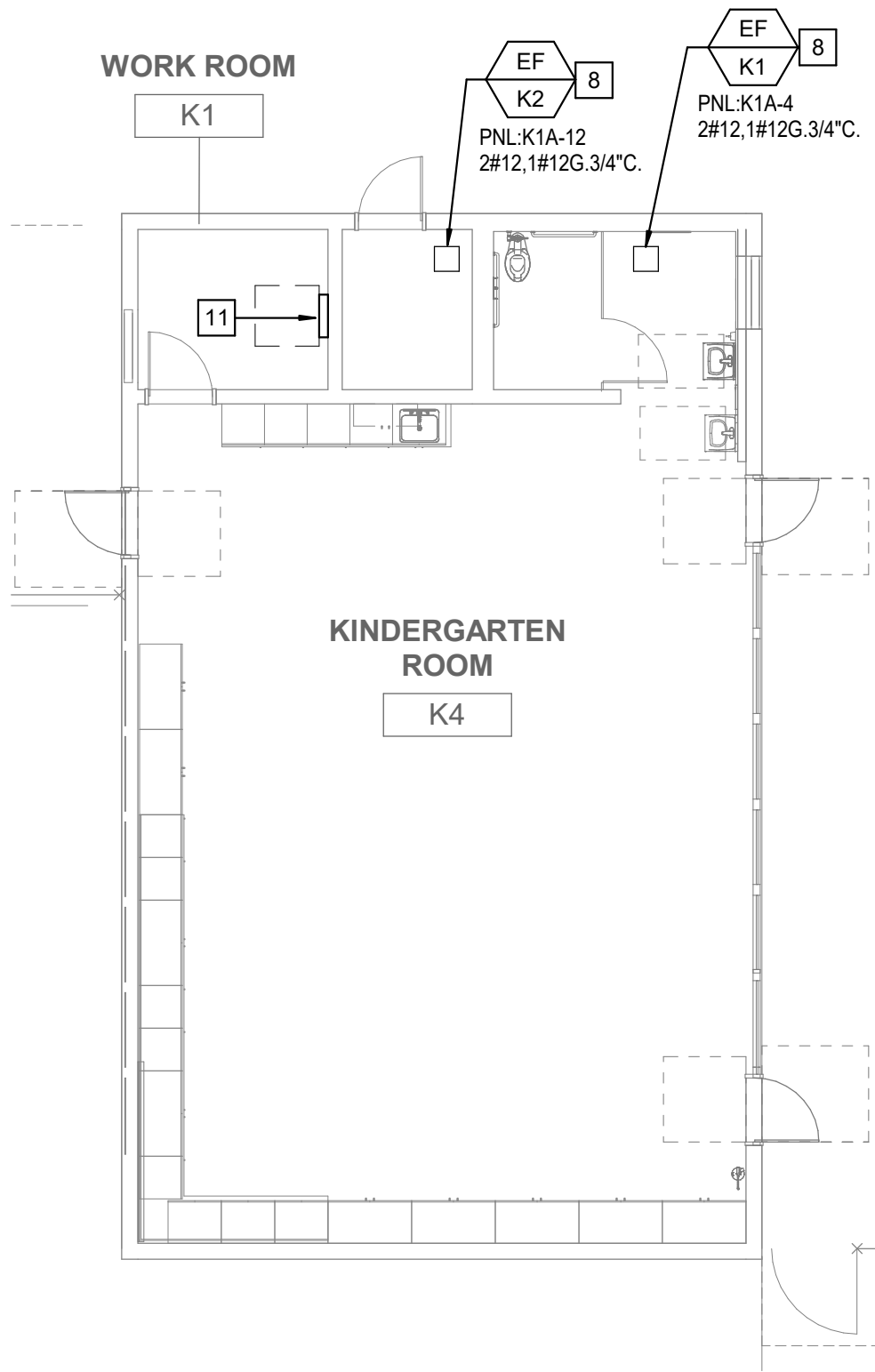
Diagram showing the layout of the building with rooms labeled A through K, including Principal's office (AD1), Clerk's office (AD2), Supplies Books room (AD3), Nurse's Room (AD5), Office (AD7), Staff Toilet (AD8), Nurse Toilet (AD4), Passage (AD6), and Heater Room (AD9).

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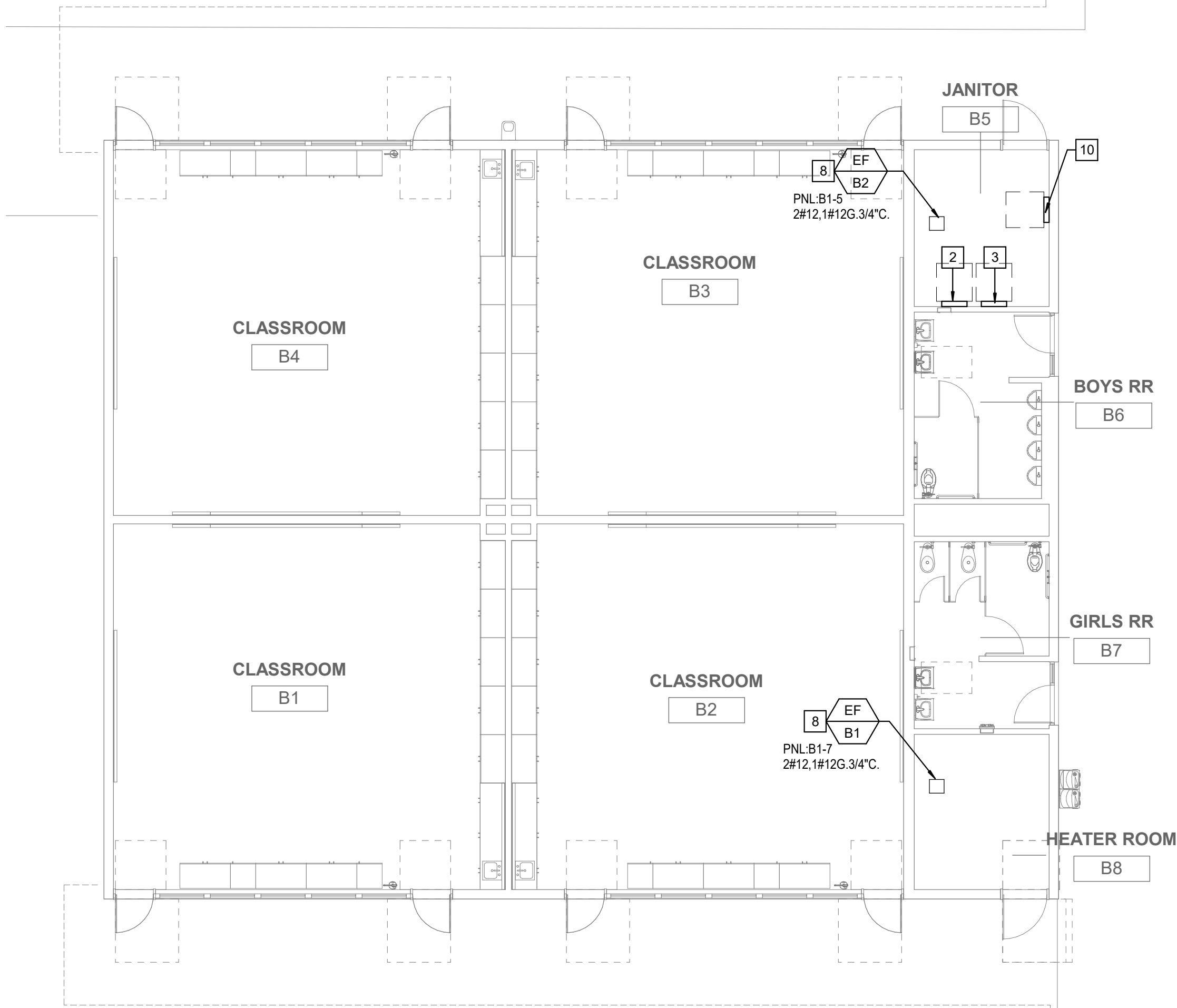
DSA SUBMITTAL

ELECTRICAL
DEMOLITION LIGHTING
PLANS

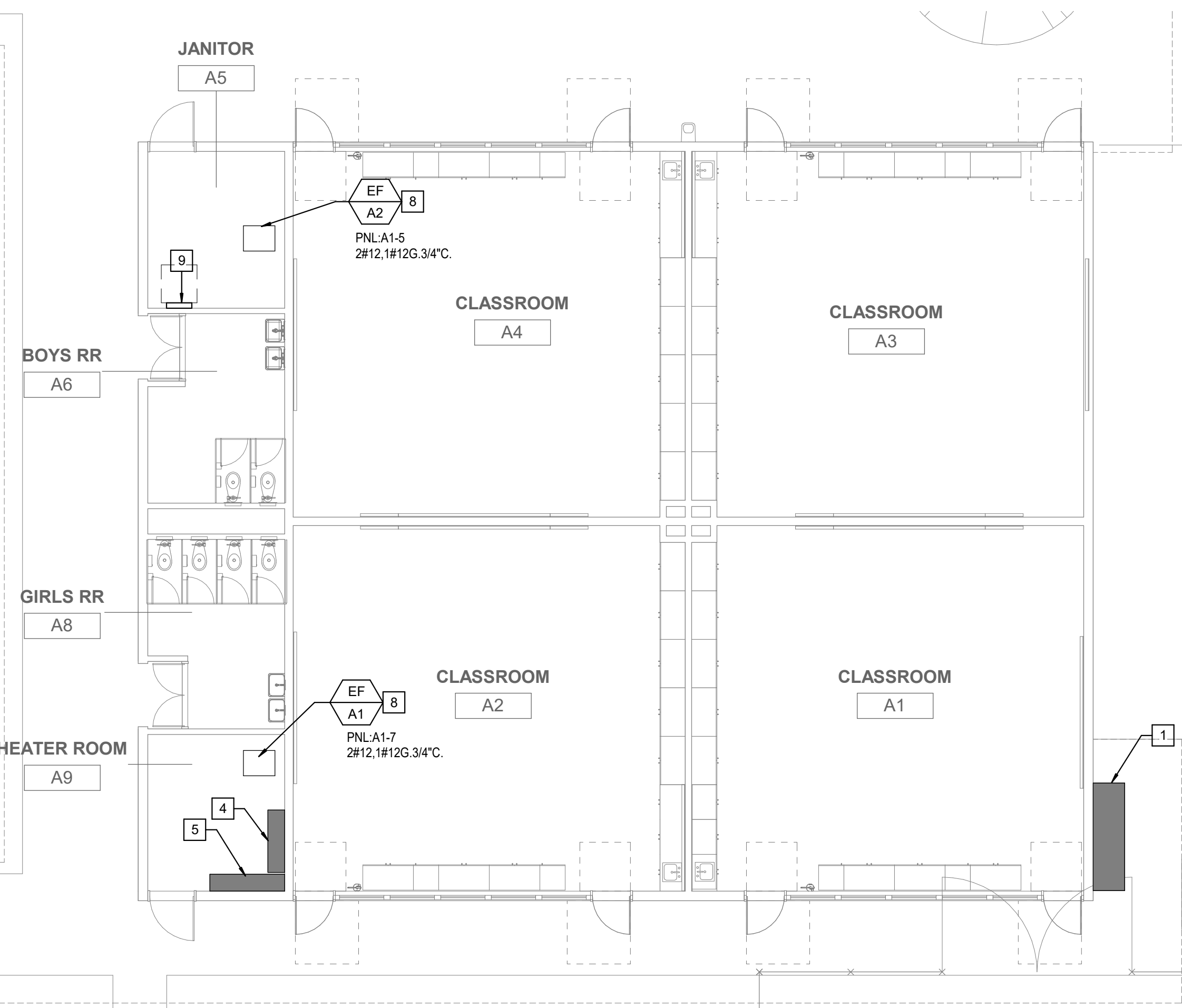
3 BLDG K - FLOOR PLAN
1/8" = 1'-0"



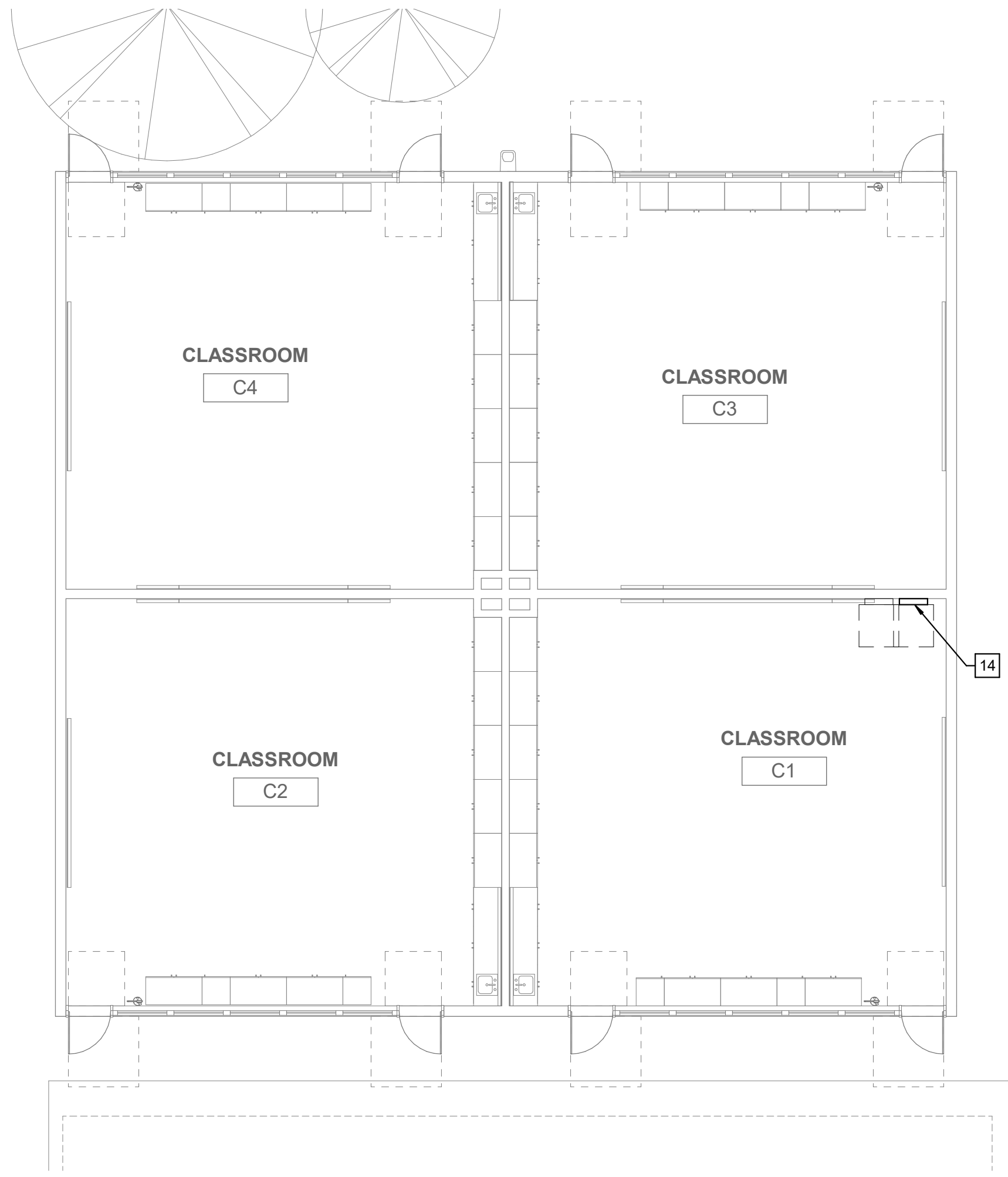
2 BLDG B - FLOOR PLAN
1/8" = 1'-0"



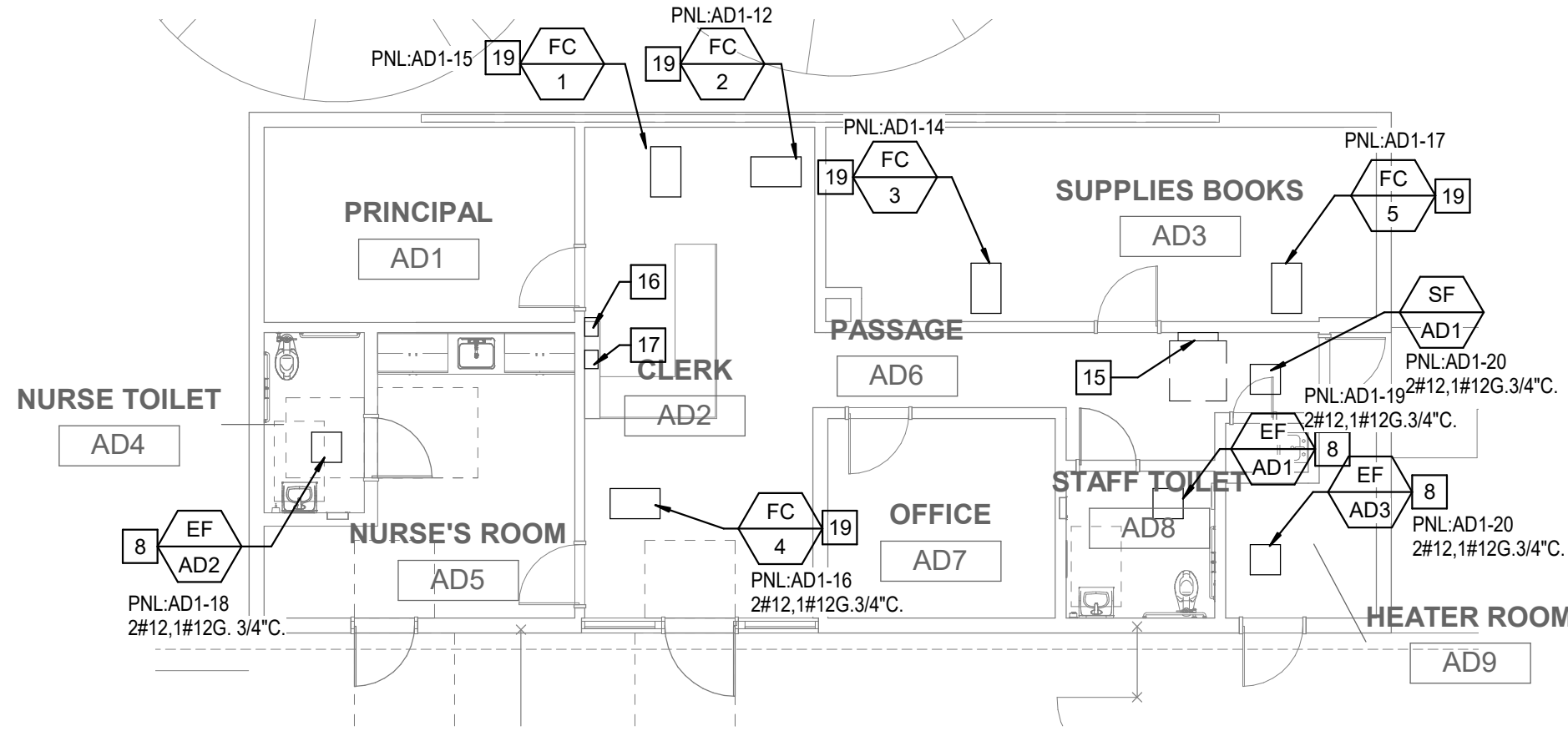
1 BLDG A - FLOOR PLAN
1/8" = 1'-0"



4 BLDG C - FLOOR PLAN
1/8" = 1'-0"



5 BLDG ADMIN - FLOOR PLAN
1/8" = 1'-0"



GENERAL NOTES

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2. ALL RECEPTACLE DEVICES AND ASSOCIATED HARDWARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
3. 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 TO REMAIN MAIN SWITCHBOARD 120/208V, 3PH, 4W - 1200A.
- 2 EXISTING TO REMAIN PANEL 'P1' 120/208V, 3PH, 4W - 125A.
- 3 EXISTING TO REMAIN PANEL 'C1' 120/240V, 1PH, 3W.
- 4 EXISTING TO REMAIN PANEL BOARD 'A'
- 5 EXISTING TO REMAIN PANEL BOARD 'B'
- 6 PROVIDE LOCAL DISCONNECT SWITCH FOR MECHANICAL INDOOR UNIT. DISCONNECT SWITCH SHALL BE MOUNTED IN CEILING SPACE.
- 7 NOT USED.
- 8 ROUTE EXHAUST FAN THROUGH LIGHTING CIRCUIT AND SWITCH. SEE MECHANICAL SCHEDULE FOR ADDITIONAL INFORMATION.
- 9 PROVIDE NEW PANEL 'A1' 120/208V, 3PH, 4W - 225A. SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR CONDUIT AND FEEDER SIZE. SEE DETAIL 2/E6.01 FOR FURTHER INFORMATION.
- 10 PROVIDE NEW PANEL 'B1' 120/208V, 3PH, 4W - 225A. SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR CONDUIT AND FEEDER SIZE. SEE DETAIL 2/E6.01 FOR FURTHER INFORMATION.
- 11 PROVIDE NEW PANEL 'K1A' 120/208V, 3PH, 4W - 225A. SEE SINGLE LINE DIAGRAM E6.02 FOR CONDUIT AND FEEDER SIZE. SEE DETAIL 2/E6.01 FOR FURTHER INFORMATION.
- 12 NOT USED.
- 13 NOT USED.
- 14 PROVIDE NEW PANEL 'C1A' 120/208V, 3PH, 4W - 225A. SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR CONDUIT AND FEEDER SIZE. SEE DETAIL 2/E6.01 FOR FURTHER INFORMATION.
- 15 PROVIDE NEW PANEL 'AD1' 120/208V, 3PH, 4W - 225A. SEE SINGLE LINE DIAGRAM ON SHEET E6.02 FOR CONDUIT AND FEEDER SIZE. SEE DETAIL 2/E6.01 FOR FURTHER INFORMATION.
- 16 EXTEND EXISTING CIRCUIT FROM EXISTING FIRE ALARM PANEL TO NEW FIRE ALARM PANEL.
- 17 EXISTING SECURITY PANEL TO BE PROTECTED IN PLACE.
- 18 NOT USED.
- 19 PROVIDE 208V 1 PHASE, 2#12, 1#12G, 3/4". POWER CONNECTION TO INDOOR FAN COIL. SEE MECHANICAL SCHEDULE ON M5.01 FOR FURTHER DETAILS.

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

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DSA SUBMITTAL

DSA APPL NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER
No. E 23576
Exp. 10/30/2021
ELECTRICIAN
STATE OF CALIFORNIA

Architect

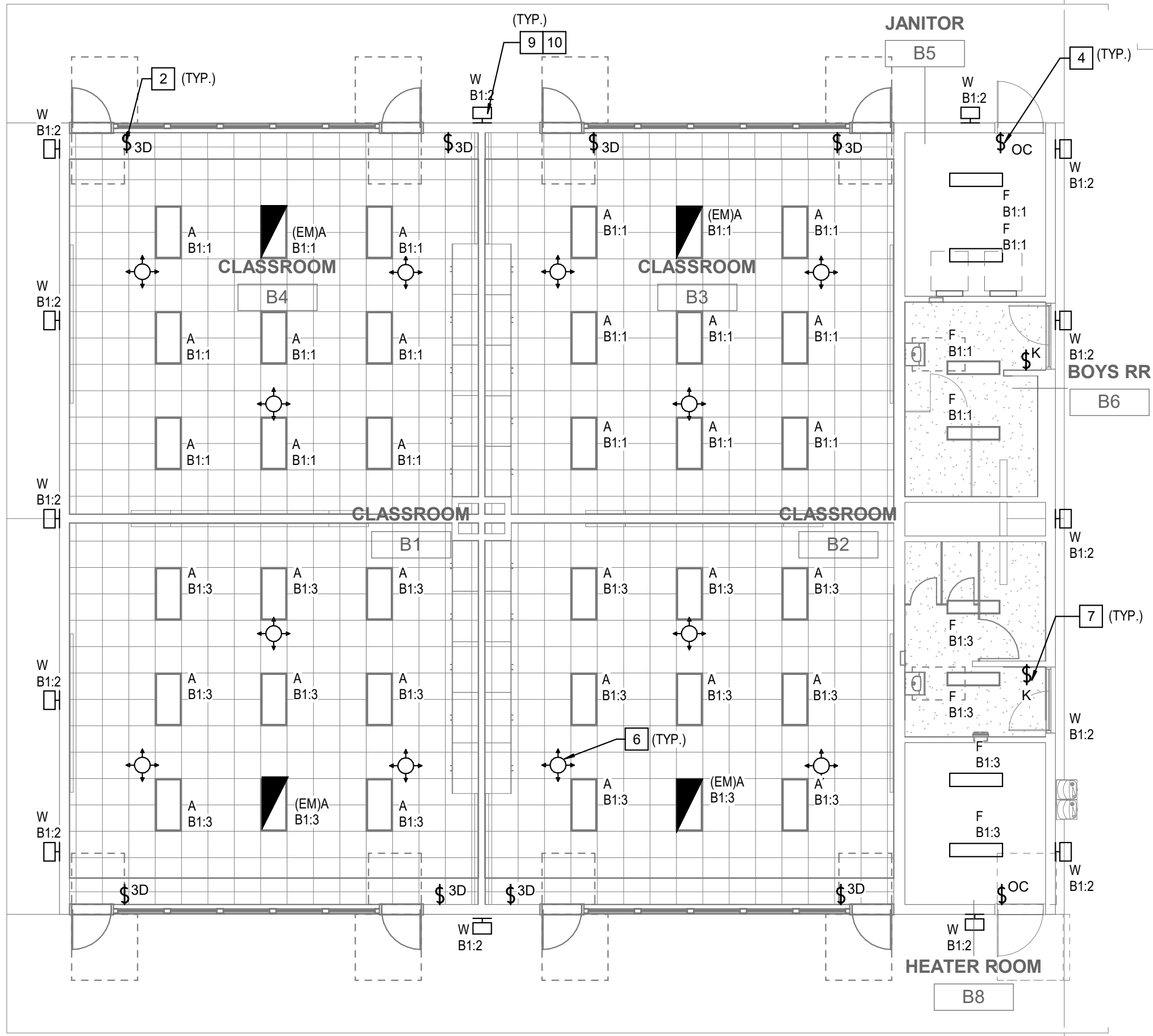
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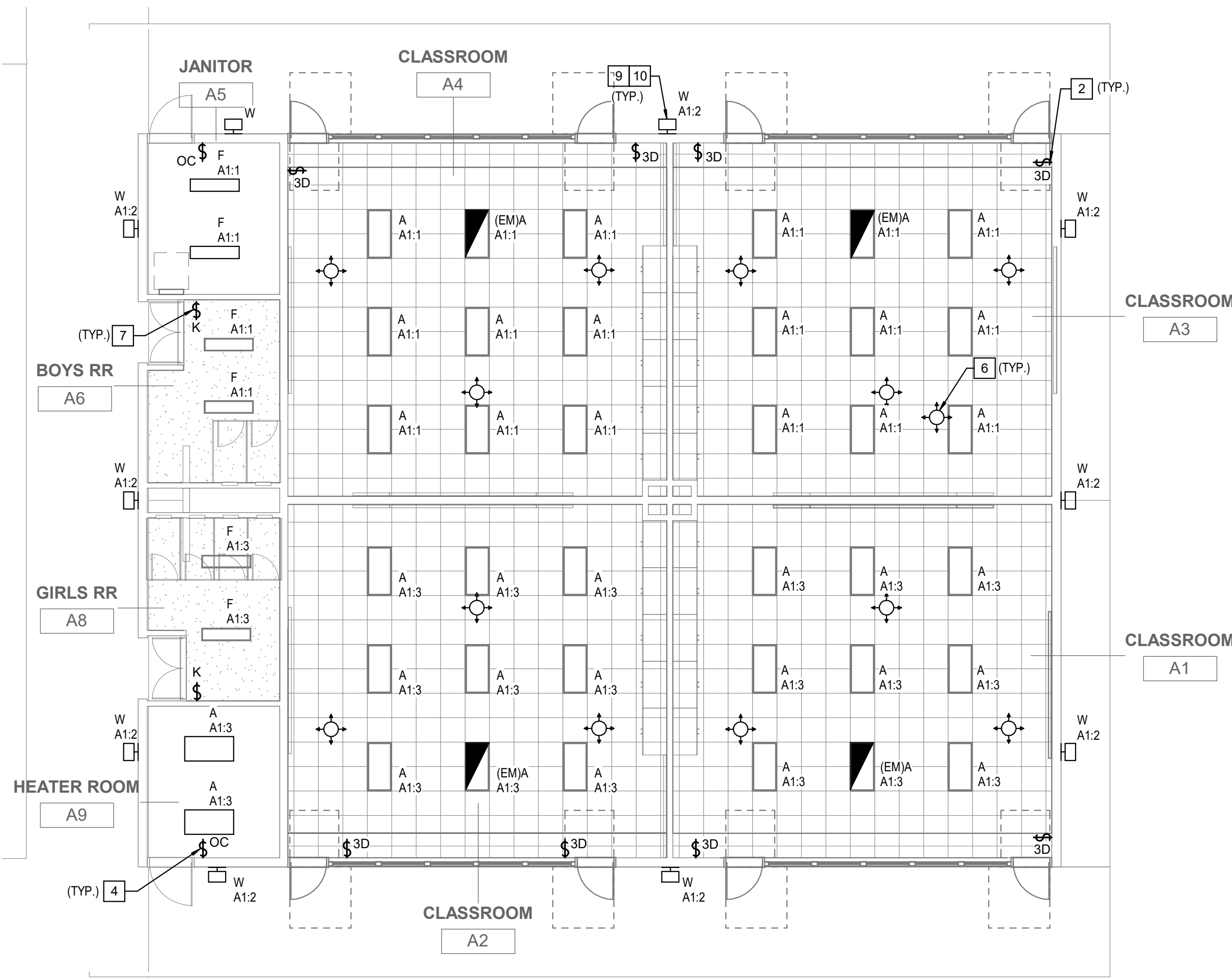
ELECTRICAL FLOOR PLANS

0' 1'

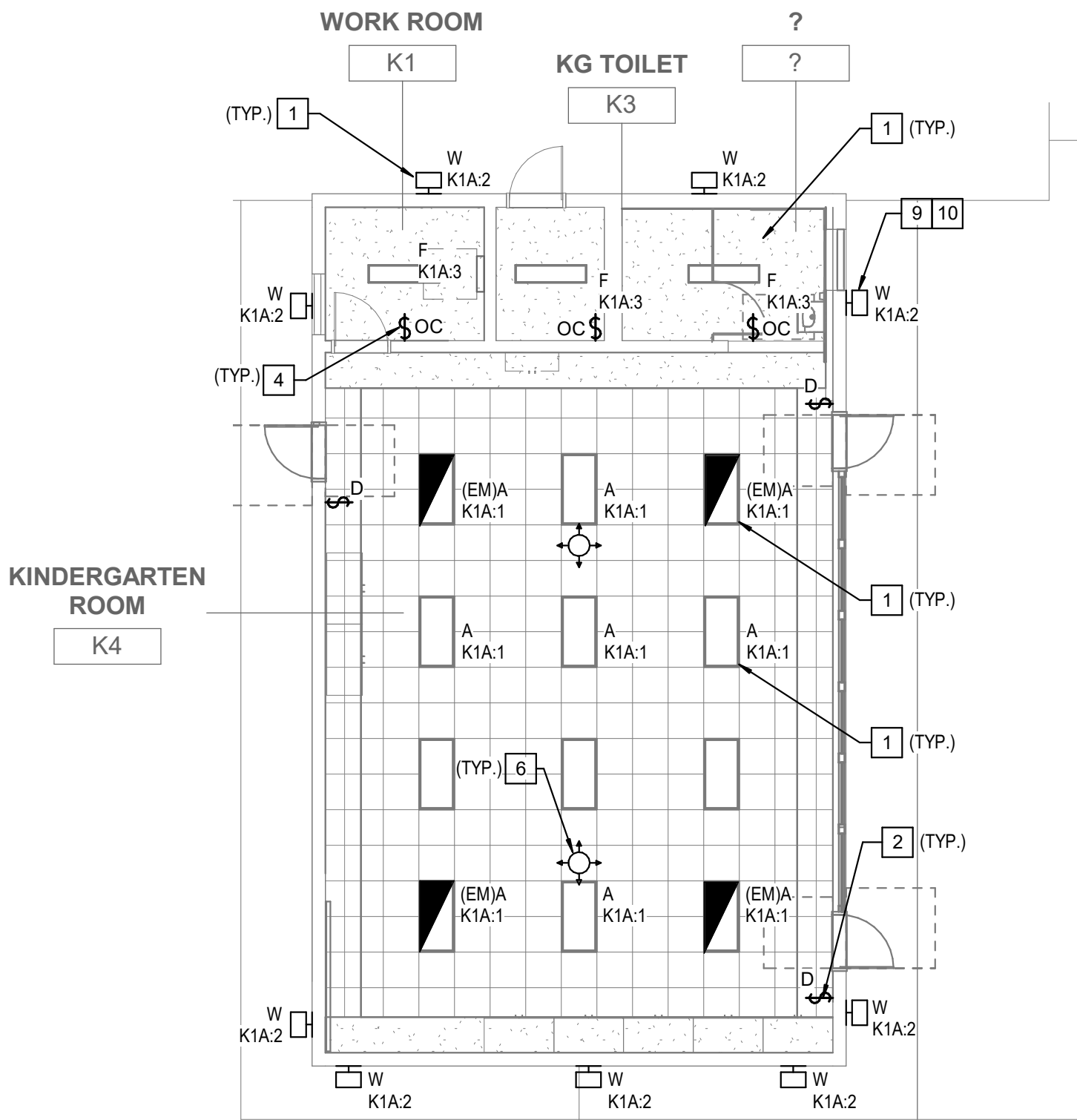
2 BLDG B - LIGHTING PLAN
1/8" = 1'-0"



1 BLDG A - LIGHTING PLAN
1/8" = 1'-0"



3 BLDG K - LIGHTING PLAN
1/8" = 1'-0"



GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL EXITS SIGNS ARE TYPE "X".
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 HOT TO BATTERY SO THAT LAMPS CAN BE SWITCHED OFF AND ON WITHOUT DRAINING BATTERY. RE. DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2P12, 1P120, 3P4°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.

KEY NOTES

- 1 PROVIDE NEW LED LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON SHEET E5.01 FOR ADDITIONAL INFORMATION. RE-USE EXISTING CIRCUIT AND EXTEND CONDUIT AND WIRING AS NEEDED.
- 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 LUTRON POWER PACK MODULE. PROVIDE AS REQUIRED, EVEN IF NOT SHOWN ON PLANS. LOCATE ABOVE ACCESSIBLE CEILING. WHERE OCCUPANCY SENSOR IS UTILIZED ON ROOMS WITH HARD CEILINGS (I.E. RESTROOMS, ETC.), INSTALL POWERPACKS ABOVE NEAREST ACCESSIBLE CEILING (I.E. CORRIDOR, ETC.).
- 6 LOW VOLTAGE CEILING MOUNTED WIRELESS OCCUPANCY SENSOR, RADIO PWIR SAVR SERIES
- 7 PROVIDE KEYSWITCH LIGHT SWITCH, LUTRON QSW52-KSN3MOC-WH.
- 8 PROVIDE NEW EXTERIOR LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON SHEET E5.01
- 9 PROVIDE NEW PHOTOCELL TIME CLOCK ON ROOF FACING NORTH, CIRCUIT THROUGH NEW TIME CLOCK. PROVIDE TIME CLOCK ADJECENT TO PANEL BOARD.

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
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E1 E2 E3 E4
D1 D2 D3 D4
F1 F2 F3 F4
C
B
A
MP
AD
PSI
K
KEY PLAN
NORTH: PLAN

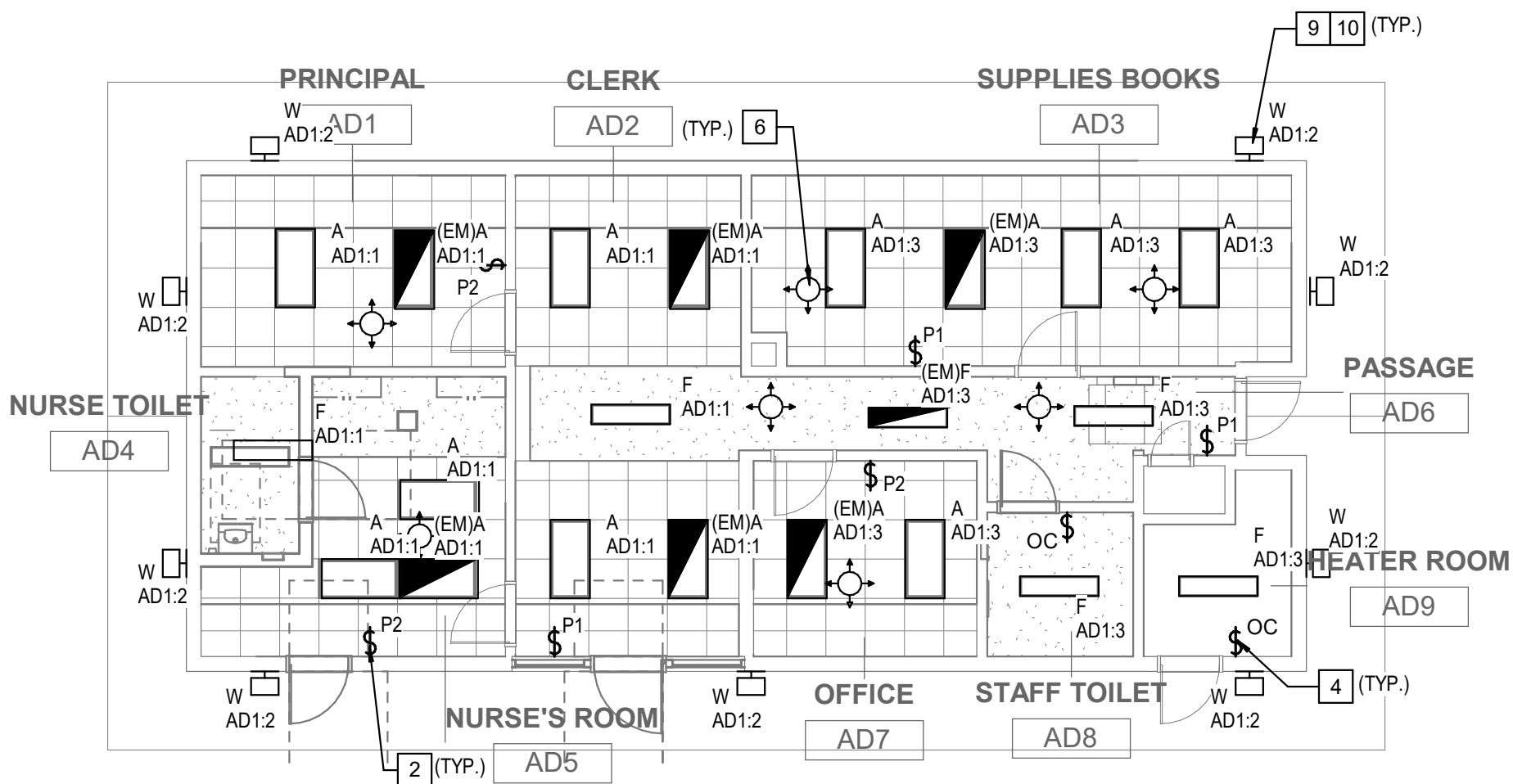
Consultant
REGISTERED PROFESSIONAL ENGINEER
No. E 23576
EXPIRATION DATE 06/30/2025
ELECTRICIAN
STATE OF CALIFORNIA

Architect

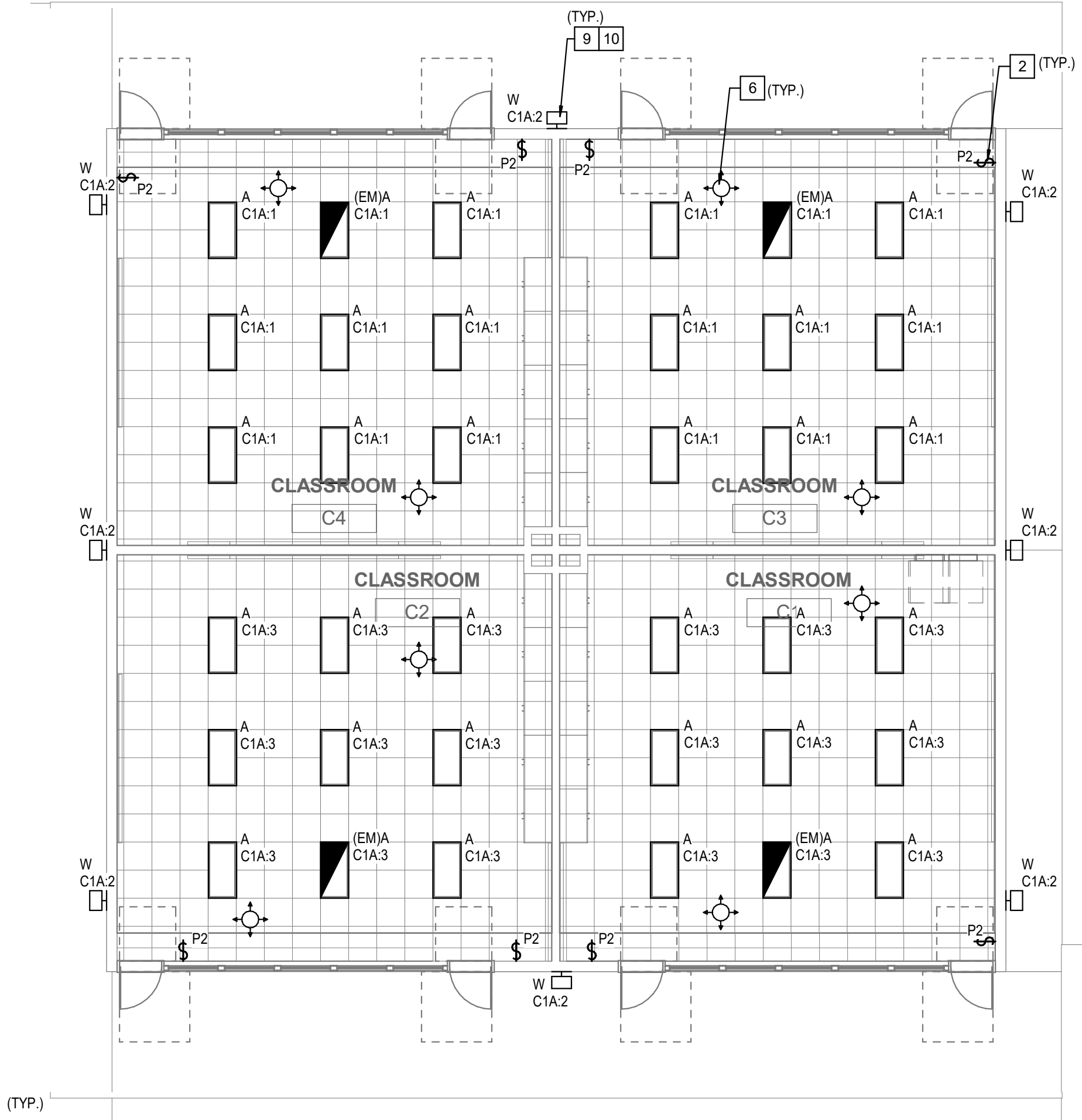
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No.	Description	Date

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309
DSA SUBMITTAL
ELECTRICAL LIGHTING PLANS

2 BLDG ADMIN - LIGHTING PLAN
1/8" = 1'-0"



1 BLDG C - LIGHTING PLAN
1/8" = 1'-0"

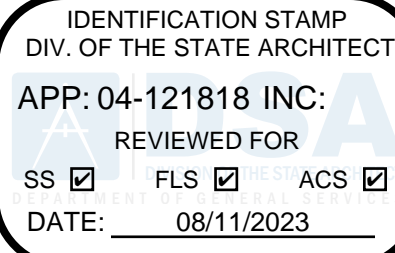


GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL EXITS SIGNS ARE TYPE "X".
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 HOT TO BATTERY SO THAT LAMPS CAN BE SWITCHED OFF AND ON WITHOUT DRAINING BATTERY. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2P12, 1P120, 3P4°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.

KEY NOTES

- 1 PROVIDE NEW LED LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON SHEET E5.01 FOR ADDITIONAL INFORMATION. RE-USE EXISTING CIRCUIT AND EXTEND CONDUIT AND WIRING AS NEEDED.
- 2 LUTRON "TRIO" WIRELESS SWITCH. "P1" INDICATES 2-BUTTON ON/OFF NON-DIMMED. "P2" INDICATES 3-BUTTON ON/OFF/DIM. "P3" INDICATES 3-BUTTON ON/OFF/DIM/PRE-SET SCENE.
- 3 NOT USED.
- 4 LUTRON LOW VOLTAGE WALL MOUNT VACANCY SWITCH, NON-DIMMED.
- 5 LUTRON POWERPACK MODULE. PROVIDE AS REQUIRED, EVEN IF NOT SHOWN ON PLANS. LOCATE ABOVE ACCESSIBLE CEILING. WHERE OCCUPANCY SENSOR IS UTILIZED ON ROOMS WITH HARD CEILINGS (I.E. RESTROOMS, ETC.), INSTALL POWERPACKS ABOVE NEAREST ACCESSIBLE CEILING (I.E. CORRIDOR, ETC.).
- 6 LUTRON WIRELESS CEILING MOUNTED OCCUPANCY SENSOR.
- 7 REGULAR TOGGLE LINE VOLTAGE SWITCH (NONE-LUTRON SWITCH). "K" INDICATED KEY OPERATED.
- 8 LUTRON WIRELESS DAYLIGHT SENSOR.
- 9 PROVIDE NEW EXTERIOR LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON SHEET E5.01
- 10 PROVIDE NEW PHOTOCELL TIME CLOCK ON ROOF FACING NORTH. CIRCUIT THROUGH NEW TIME CLOCK. PROVIDE TIME CLOCK ADJACENT TO PANEL BOARD.



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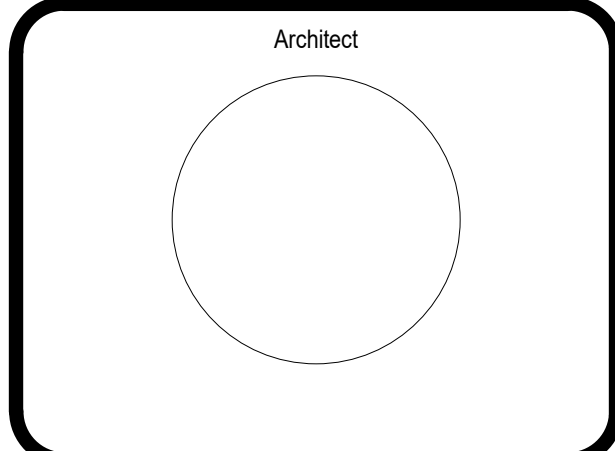
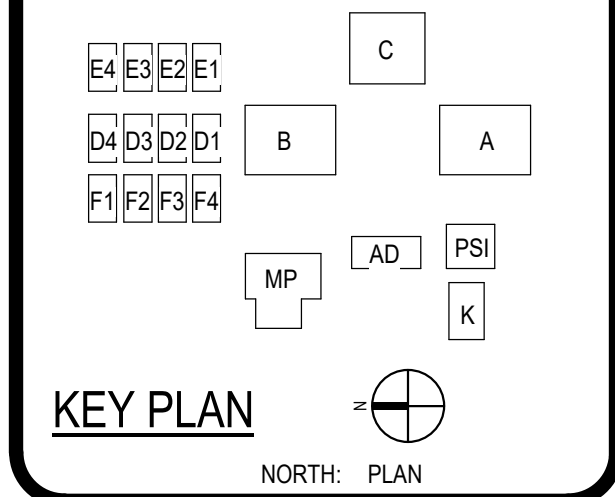
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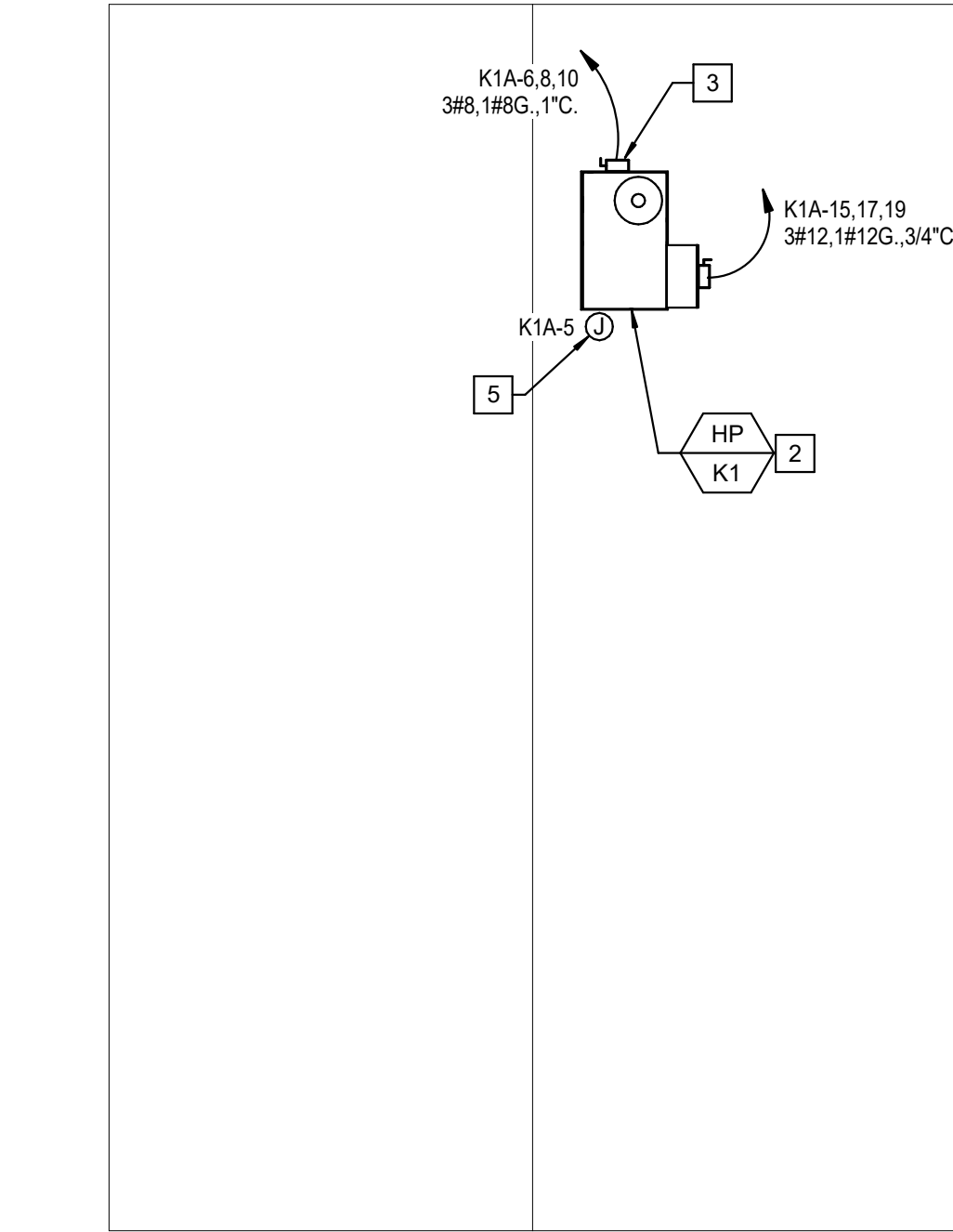
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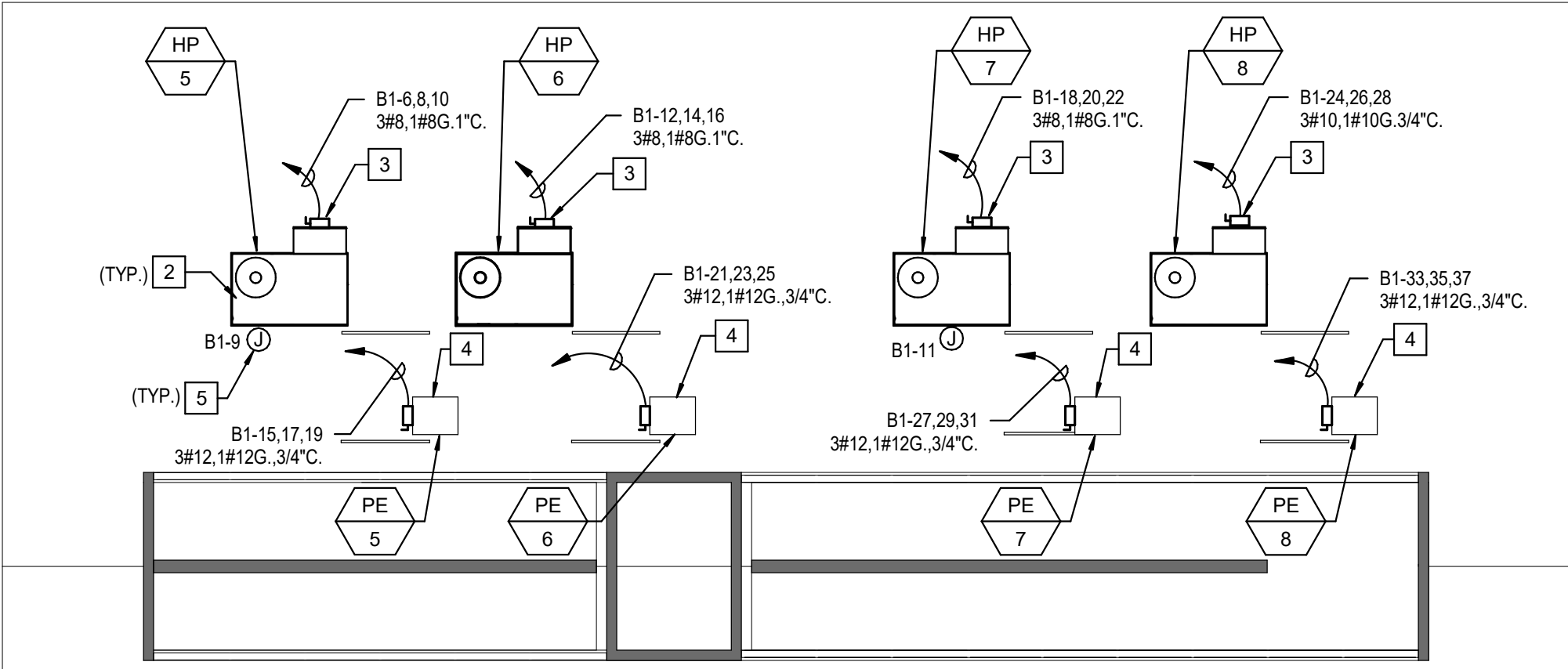
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No.	Description	Date

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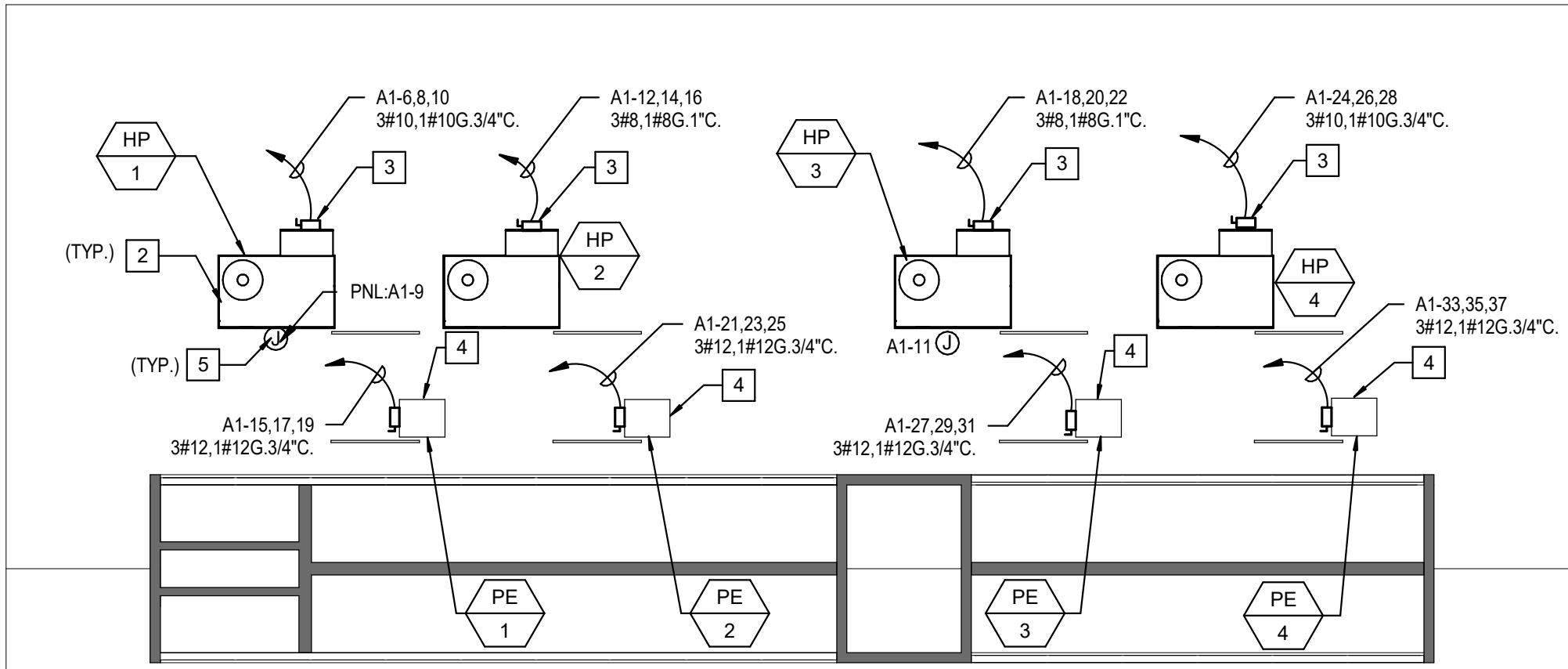
ELECTRICAL LIGHTING PLANS



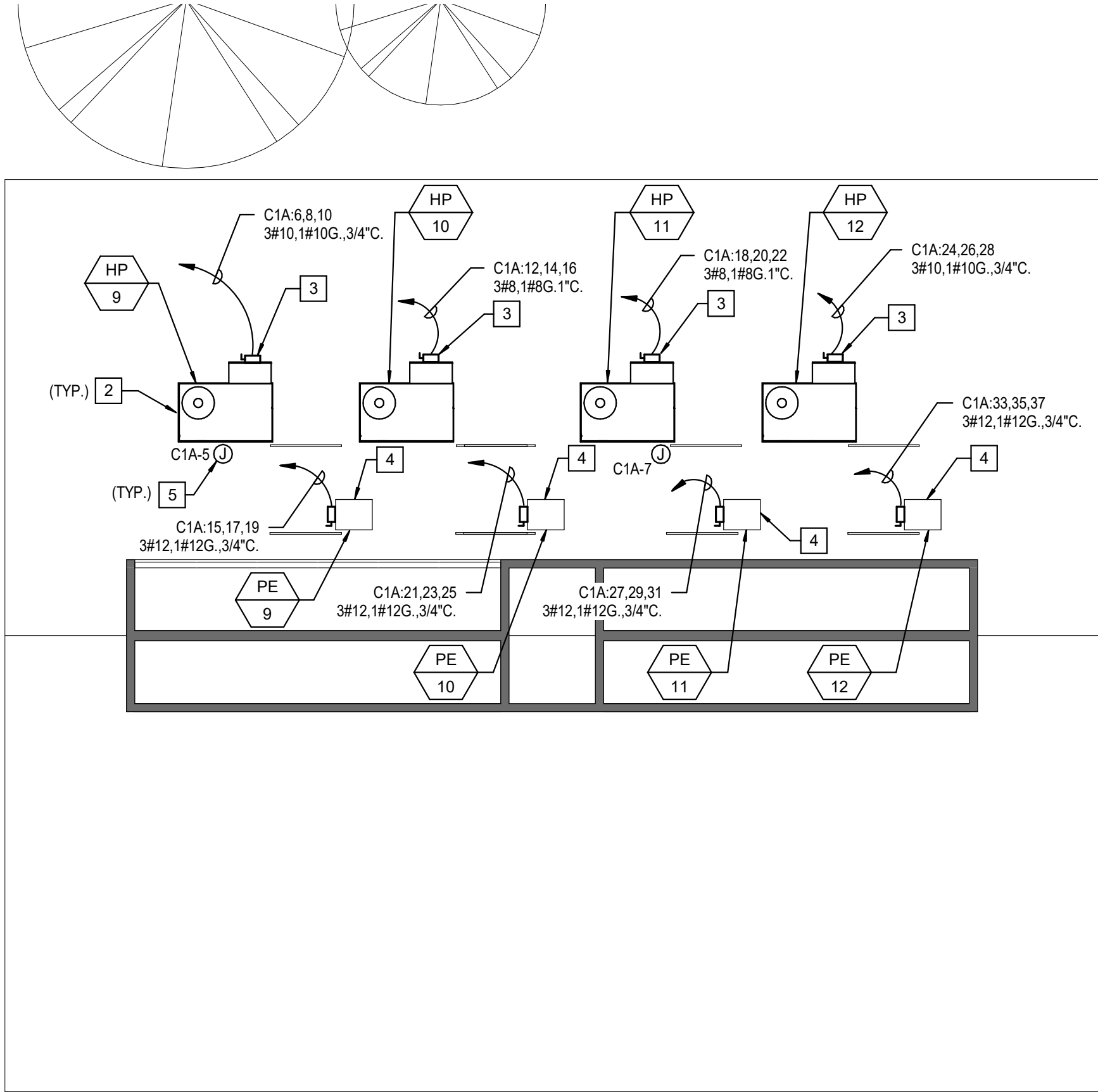
3 BLDG K - ROOF PLAN
1/8" = 1'-0"



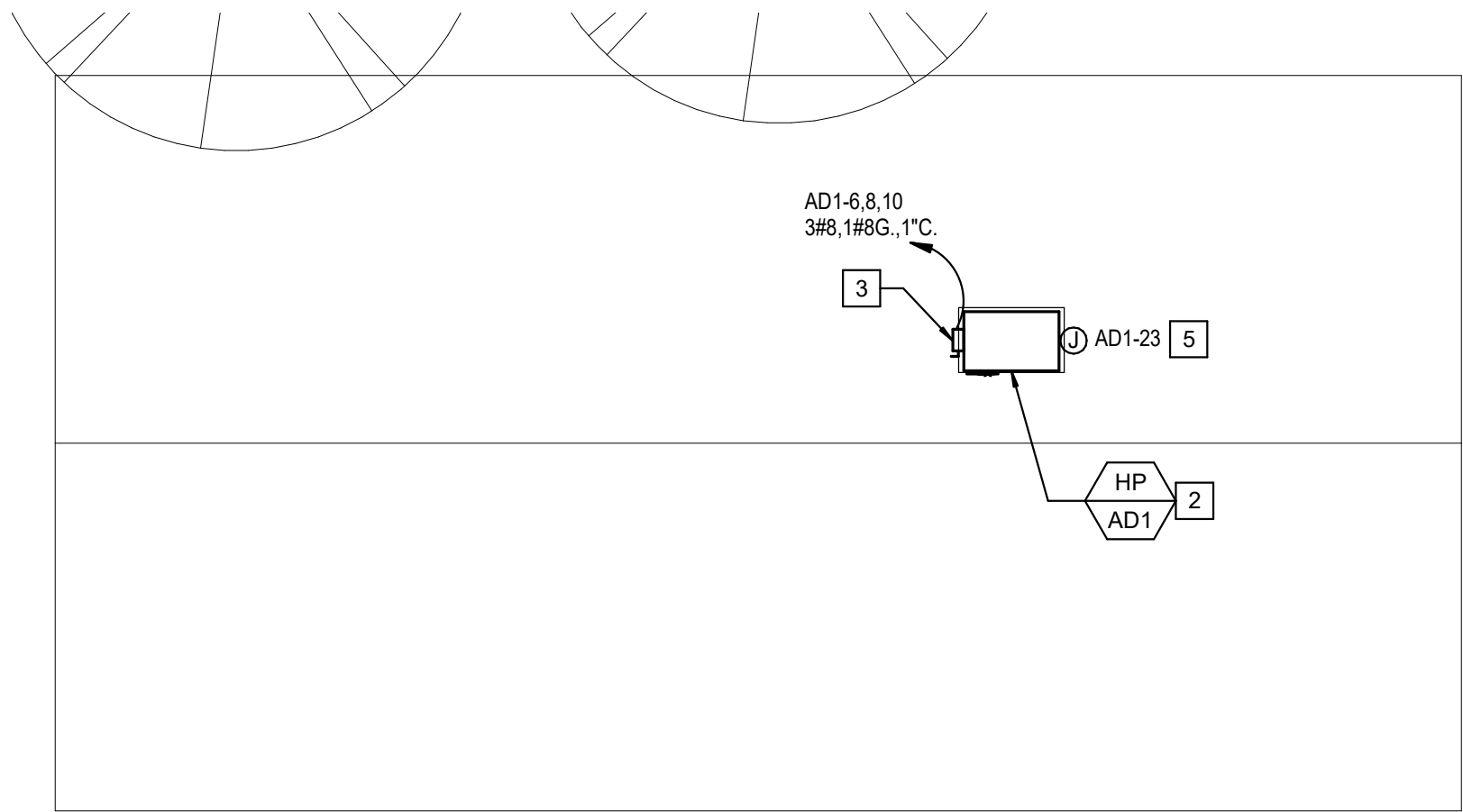
2 BLDG B - CLERESTORY PLAN
1/8" = 1'-0"



1 BLDG A - CLERESTORY PLAN
1/8" = 1'-0"



4 BLDG C - CLERESTORY PLAN
1/8" = 1'-0"



5 BLDG ADMIN - ROOF PLAN
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 ELCTRICAL EQUIPMENT/DEVICES ON THE ROOF SHALL BE WEATHER PROOF, NEMA 3R AND +8" ABOVE FINISHED ROOF LEVEL AND ROOF PENETRATIONS SHALL BE FLASHED.

KEY NOTES

- 1 PROVIDE LOCAL DISCONNECT SWITCH FOR MECHANICAL INDOOR UNIT. DISCONNECT SWITCH SHALL BE MOUNTED IN CEILING SPACE.
- 2 PROVIDE 208V 3 PHASE POWER CONNECTION TO NEW MECHANICAL UNIT.
- 3 60A NON-FUSIBLE DISCONNECT SWITCH SHALL BE PRE-INSTALLED FROM MANUFACTURER IN NEMA-3R ENCLOSURE AND CONNECT TO CIRCUIT AS SHOWN, MANUFACTURER'S RECOMMENDED FUSE SIZE SHALL SUPERSEDE DESIGN VALUE.
- 4 CONFIRM EXACT LOCATION OF ALL CONDUIT RISERS AT CONDENSING UNITS WITH MECHANICAL DRAWINGS/CONTRACTOR, PRIOR TO INSTALLATION
- 5 PROVIDE 120V 2P/2L 1#12G,.34"C. POWER CONNECTION TO CONVENIENCE OUTLET PROVIDED IN MECHANICAL UNIT.

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
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DSA SUBMITTAL
DSA APPL NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER
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No. E 23576
Exp. 08/31/2025
ELECTRICIAN
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309
REVISIONS
No. Description Date

DSA SUBMITTAL
ELECTRICAL ROOF PLANS

0"
1"

Mounting

SURFACE

Main Type

MCB (225A)

Neutral

100%

Voltage:

208Y120V-3PH 4W

Main Size:

225 AMPS

Job No

220309AR

AIC Rating

14000

Equipment Ground

Lugs

SINGLE

PANEL: K1A

Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Gr. No.	Ph	Cr. No.	Wire	Amp/P	Description	Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	
495								CLASS LIGHTING	201	12	1	A	2	EXT	201	BLDG K WALL PCK	195							0.00	
128								BLDG K LIGHTING	201	12	3	B	4		12	201	EF-K1							0.00	
	180							ROOFTOP RECEPT.	201	12	5	C	6	8	303	HP-K1 ROOFTOP								0.00	
								SPARE			7	A	8	-	-	-								0.00	
								SPARE			9	B	10	-	-	-								0.00	
								SPARE			11	C	12	12	201	EF-K2								0.00	
								SPARE			13	A	14											1.00	
		960						HP-K1 EXHAUST	201	12	15	B	16											1.00	
		960						-	-	-	17	C	18			SPARE								1.00	
		960						-	-	-	19	A	20			SPARE								1.00	
								SPARE			21	B	22			SPARE								1.00	
								SPARE			23	C	24			SPARE								1.00	
								SPARE			25	A	26			SPARE								1.00	
								SPARE			27	B	28			SPARE								1.00	
								SPARE			29	C	30			SPARE								1.00	
								SPARE			31	A	32			SPARE								1.00	
								SPARE			33	B	34			SPARE								1.00	
								SPARE			35	C	36			SPARE								1.00	
								SPARE			37	A	38			SPARE								1.00	
								SPARE			39	B	40			SPARE								1.00	
								SPARE			41	C	42			SPARE								1.00	
623	180	2879	0	0	0	0	0.00	TOTALS								TOTALS	195	0	11274	0	0	0	0	0	15.00

LOAD SUMMARY

Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Gr. No.	Ph	Cr. No.	Wire	Amp/P	Description	Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
0.8	0.2	14.2	0.0	0.0	0.0	0.0	0.0	15.0	Connected KVA															
1.25	**	1.00	1.00	1.00	1.00	1.00	0.65	0.50	Design Factors															
1.0	0.2	14.2	0.0	0.0	0.0	0.0	0.0	7.5	Design KVA															

Phase Load

Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Gr. No.	Ph	Cr. No.	Wire	Amp/P	Description	Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
0.8	0.2	14.2	0.0	0.0	0.0	0.0	0.0	15.0	Connected KVA															
1.25	**	1.00	1.00	1.00	1.00	1.00	0.65	0.50	Design Factors															
1.0	0.2	14.2	0.0	0.0	0.0	0.0	0.0	7.5	Design KVA															

Input dv factor per calculations as required for calculations.

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

PANEL K1A

Con. KVA	Con. Amps	Des. KVA	Des. Amps
TOTAL	30.2	83.7	62.4

Date:

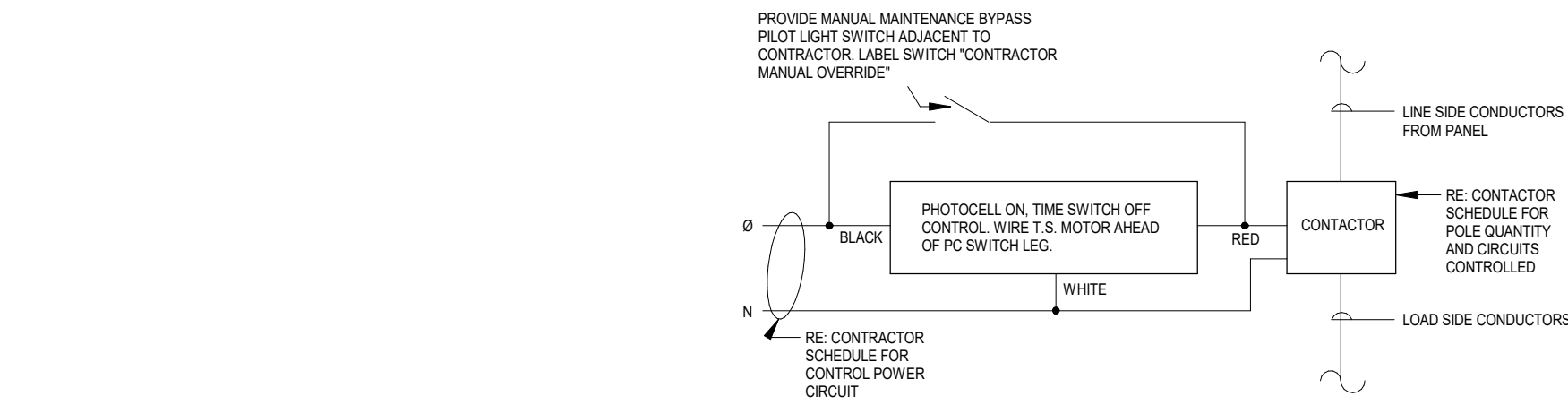
4/14/2023

By:

Designer

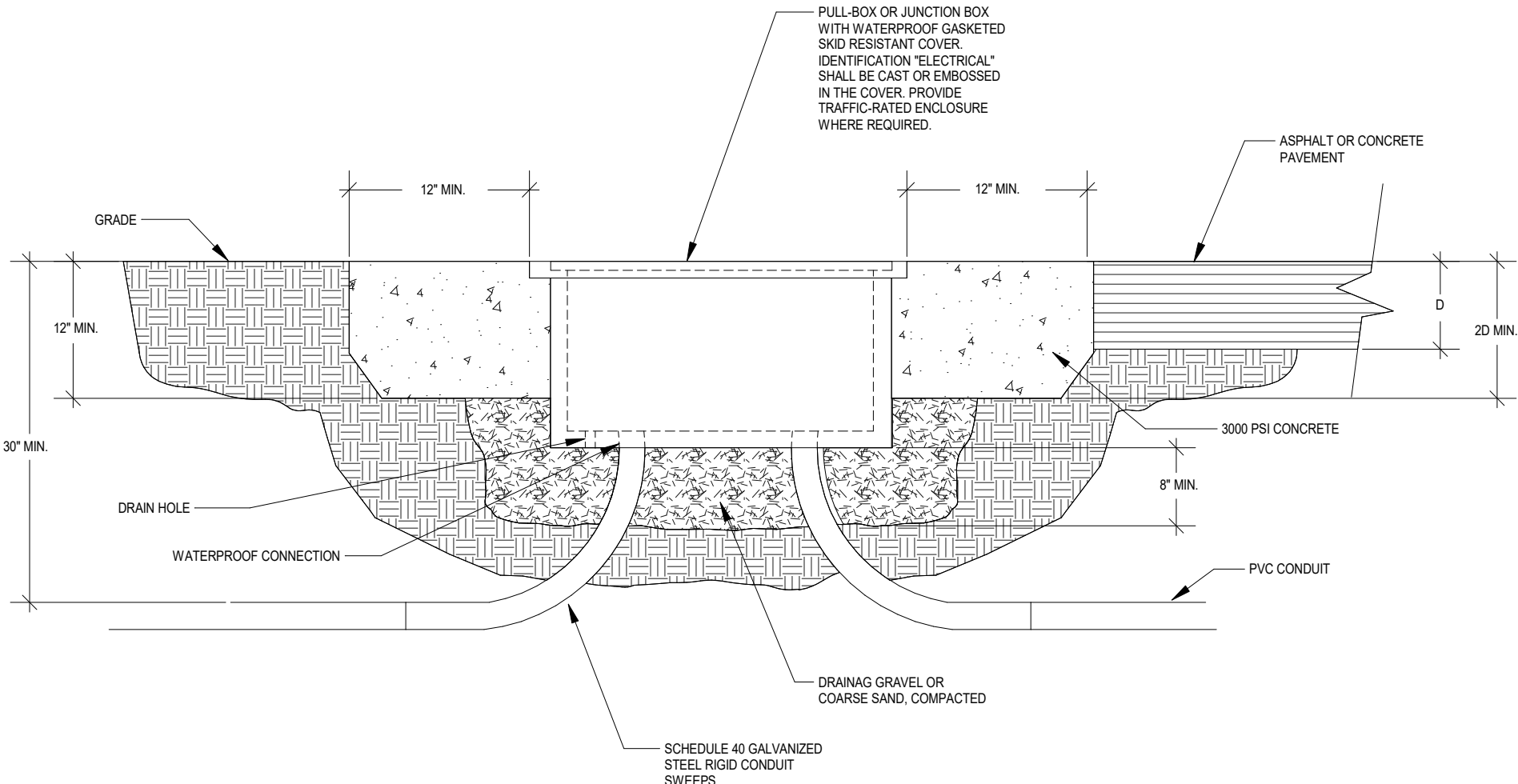
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CONTACTOR CONTROL DIAGRAM



6

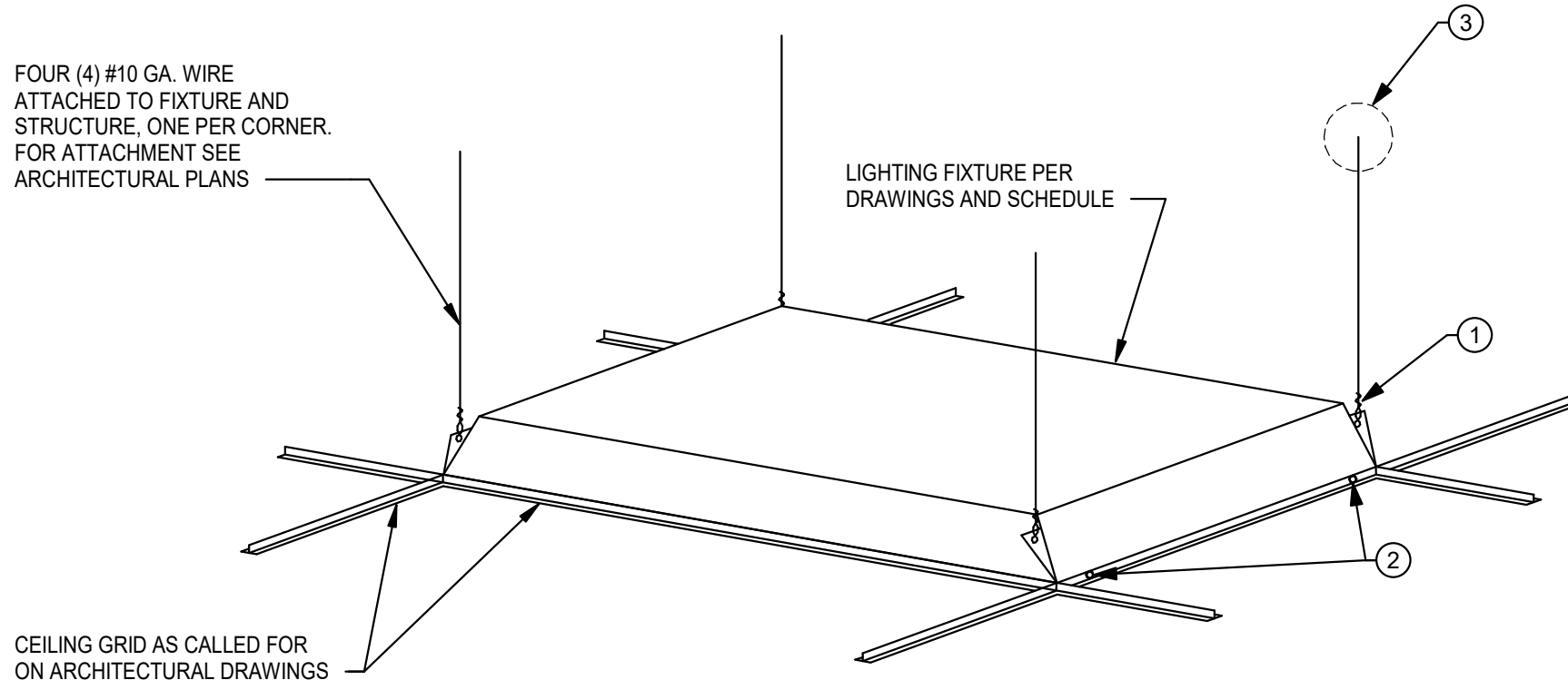
EXTERIOR JUNCTION BOX



4

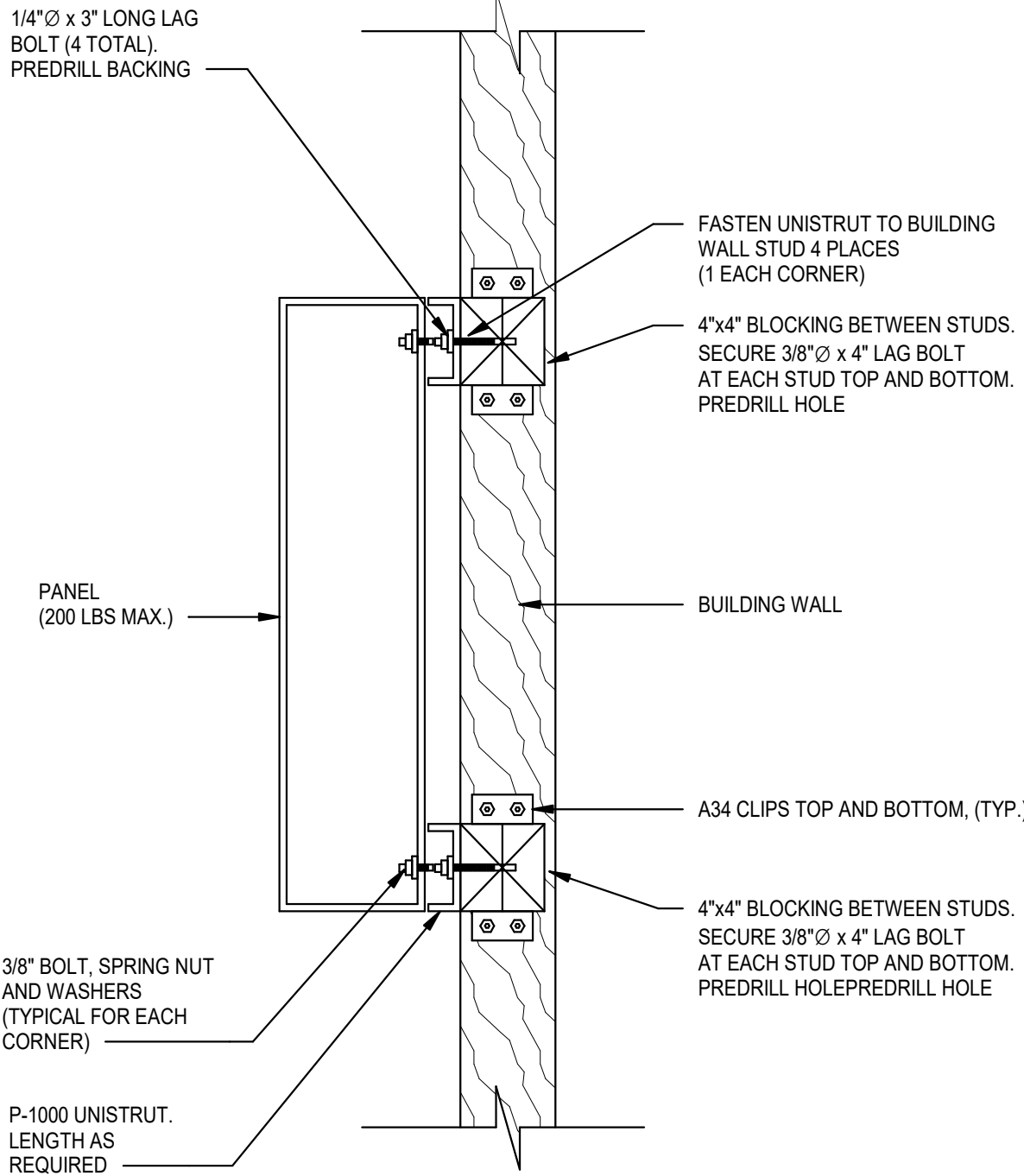
RECESSED FIXTURE IN LAY-IN GRID DETAIL

- KEY NOTES:
- 1 ATTACH WIRE TO FIXTURE (3 TIGHT TURNS MIN. IN 1/2" MAX.)
 - 2 MIN #8 "TEK" SCREW GRID TO FIXTURE @ EACH CORNER.
 - 3 ATTACH HANGER WIRES TO STRUCTURE AS PER ARCHITECTURAL DETAIL 1/A8.03.



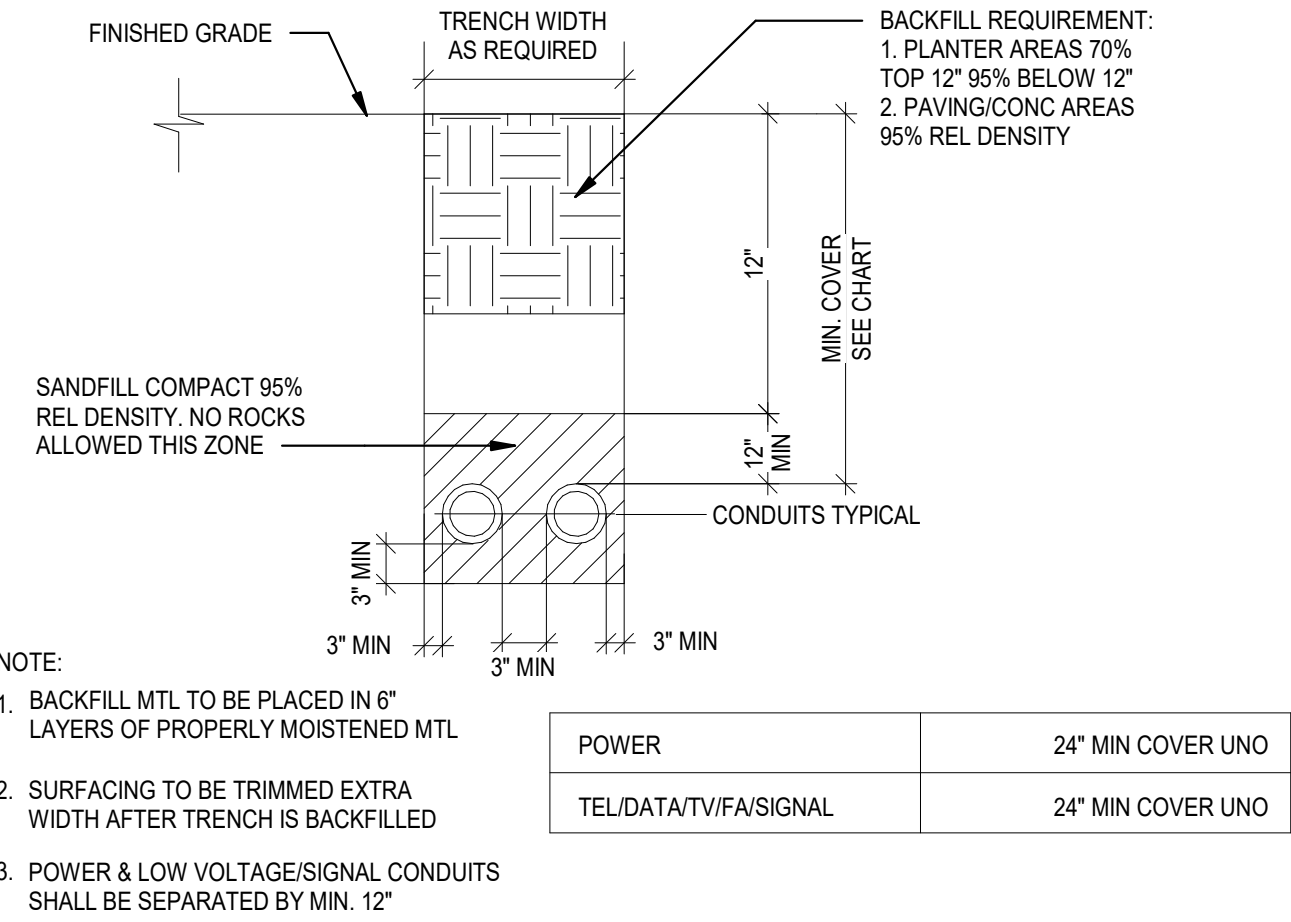
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SURFACE MOUNTED PANEL/CABINET AT WOOD FRAMING DETAIL



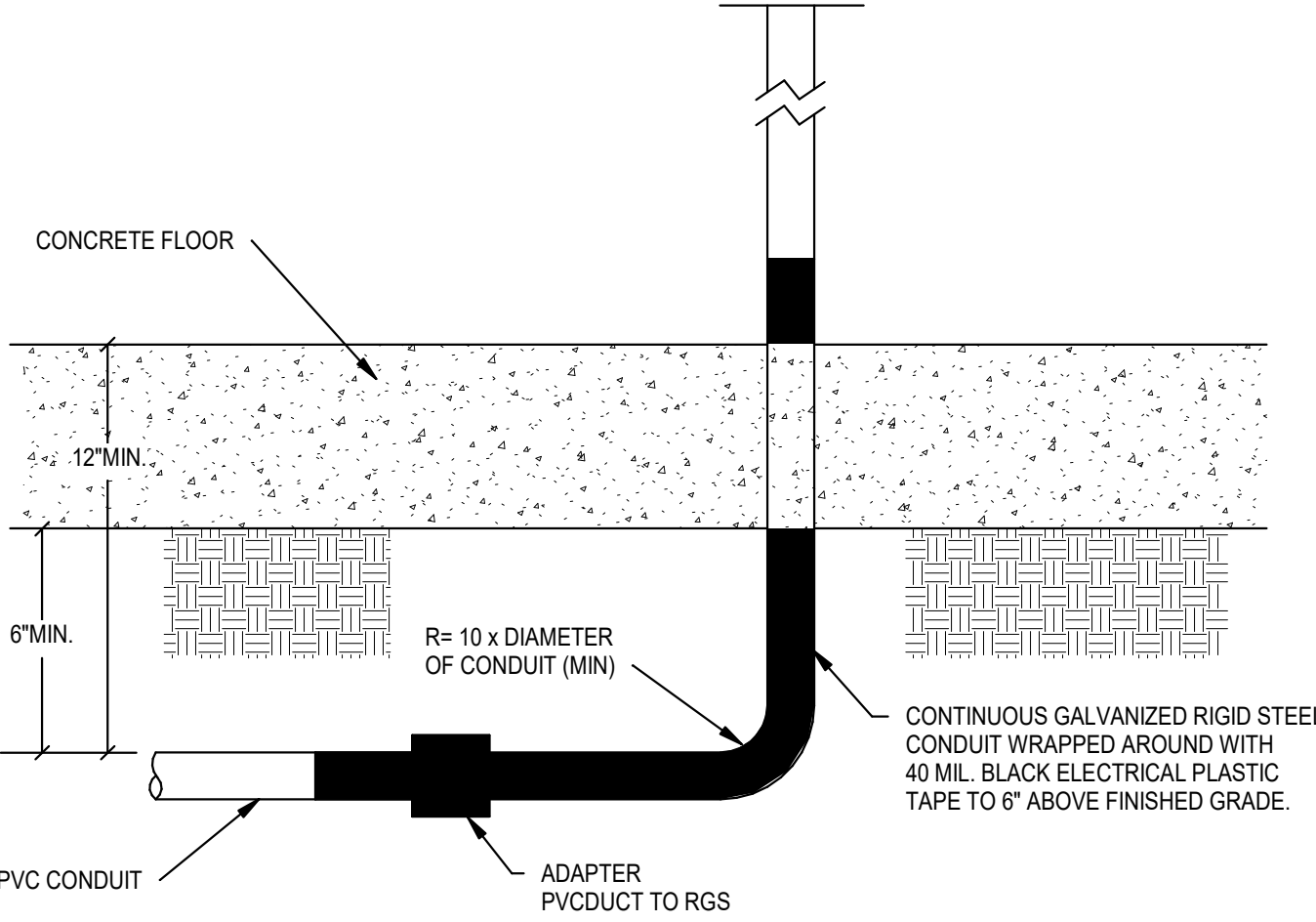
3

TRENCH DETAIL



1

CONDUIT RISER DETAIL



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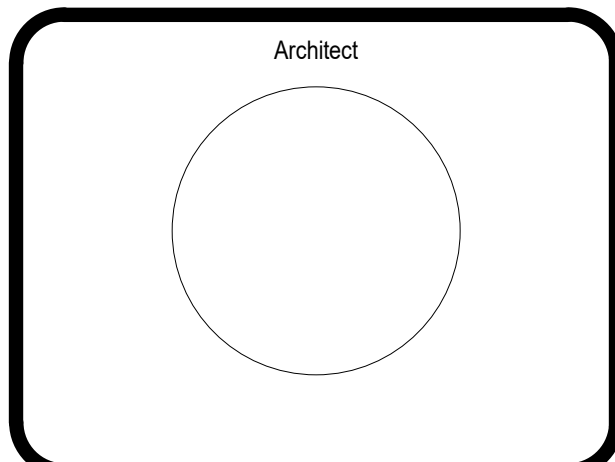
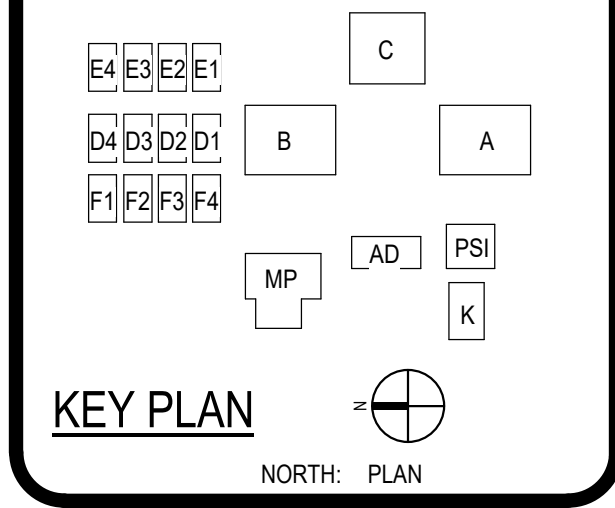
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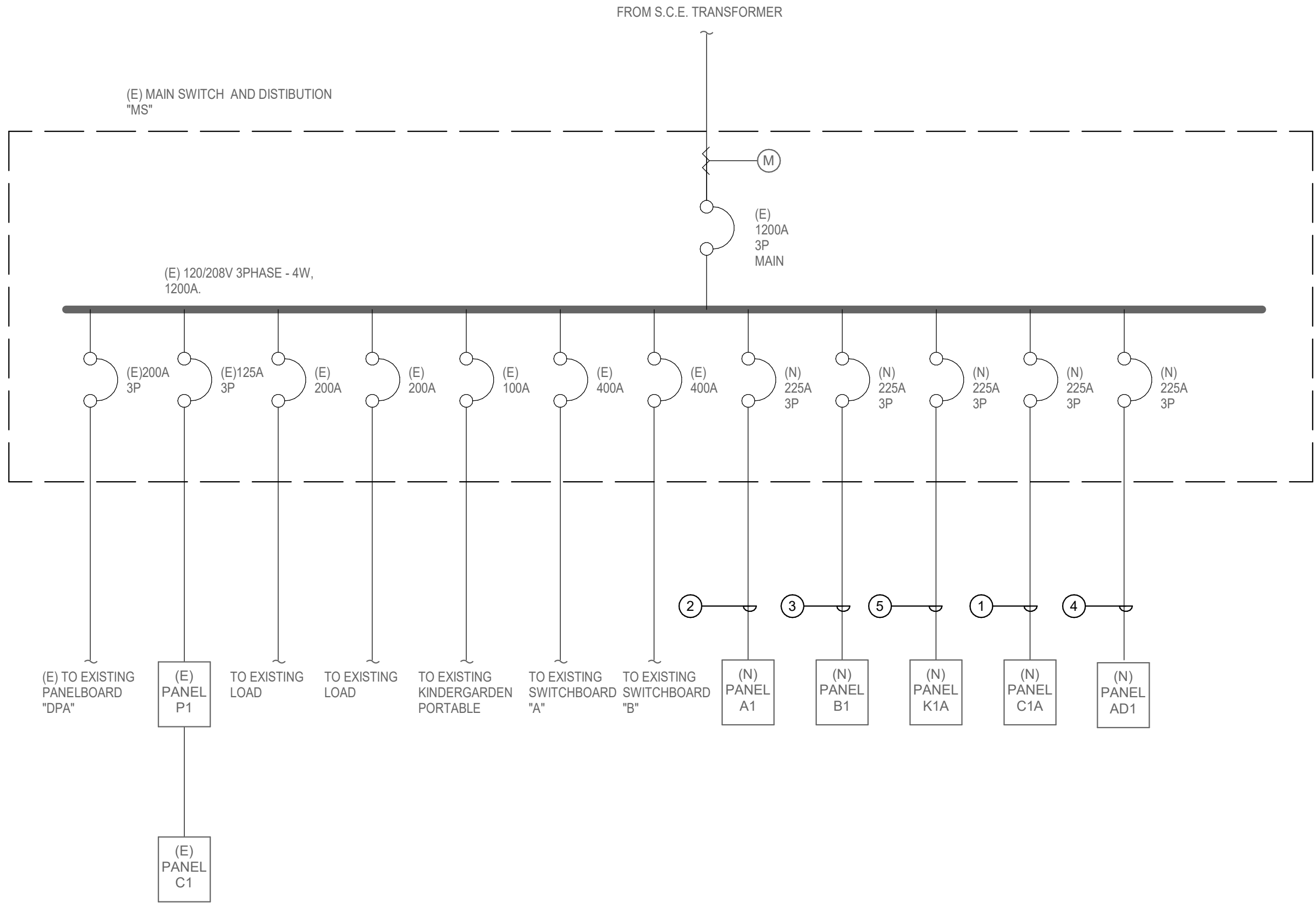
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No.	Description	Date

WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309
DSA SUBMITTAL
ELECTRICAL DETAILS

0" 1"



LEGEND:

(N) NEW

(E) EXISTING

KEY NOTES

- 14#4/0, 1#2G, 2-1/2" C.
V.D.=1.89%
- 14#4/0, 1#2G, 2-1/2" C.
V.D.=0.81%
- 14#4/0, 1#2G, 2-1/2" C.
V.D.=2.74%
- 14#4/0, 1#2G, 2-1/2" C.
V.D.=1.24%
- 14#4/0, 1#2G, 2-1/2" C.
V.D.=1.33%

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DSA APP. NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN

NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
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Exp. 06/30/25
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STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SINGLE LINE DIAGRAM

SYMBOL	ITEM	ABBR
	FIXTURE DESIGNATION	
	UNIT ABBREVIATION	
	DETAIL DESIGNATION	
	DETAIL NUMBER	
	SHEET NO. WHERE SHOWN	
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HW RETURN	HW R
	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

CALIFORNIA GREEN BUILDING STANDARDS

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:

1. 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.

2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL LEASING TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED BY FLOWING SUBSYSTEMS:

- a. MAKE-UP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM.
- b. MAKE-UP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM.
- c. 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 CLOSET 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.

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

PLUMBING TESTING

1. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE INSPECTED AND TESTED OR TEST TO CERTIFY WORKING CONDITION. A WRITTEN REPORT ON THE CONDITION OF ALL EQUIPMENT TO REMAIN. THE CONTRACTOR SHALL SUBMIT THE RESULTS AND RECOMMENDED REMEDIAL ACTIONS AND COSTS SHALL BE MADE BY THIS CONTRACTOR TO THE ARCHITECT/ENGINEER FOR REVIEW.
2. PIPE COVER AND BACKFILLING.
 - A. AFTER HYDROSTATIC TEST, EVENLY BACKFILL ENTIRE TRENCH WITH 6" HAND PLACING BACKFILL MATERIAL.
 - B. AND HAND TAMPING IN FOUR (4) CHES COMPACTED LAYERS TO 12 INCHES MINIMUM COVER OVER TOP OF JACKET, COMPACT TO 95 PERCENT MAXIMUM DENSITY.
 - C. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN
 - C. UNIFORM LAYERS WITH BACKFILL MATERIAL.
 - D. DO NOT USE WHEELED OR TRACKED VEHICLES FOR TAMPING.
3. PRESSURE TEST ALL DOMESTIC WATER PIPING. AFTER INSTALLATION AND PRIOR TO BACKFILL OR COVER-UP, RISE PIPE SYSTEM OF PARTICULATE, CONTAMINANTS, CAP AND SUBJECT TO STATIC WATER PRESSURE OF 125 PSI FOR 15 MINUTES. IF ANY LEAKS OR DEFECTS ARE DETECTED, ANY PORTION OF PIPING SYSTEM THAT IS FOUND TO BE DEFECTIVE SHALL BE REPAIRED. THE CONTRACTOR SHALL 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.
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.
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.
6. PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54. CA PLUMBING CODE SECTION 1213

GENERAL PLUMBING NOTES

2. ALL BRACING OF PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES, HAZARD LEVEL 'A'.
3. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD INSPECTOR.
4. SUPPORT AND BRACING OF ALL PIPING SHALL BE IN ACCORDANCE WITH THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF PLUMBING PIPING SYSTEMS," OR THE "SUPERTRUT SEISMIC RESTRAINT SYSTEM" FOR PIPING ONLY.
5. A CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PIPE ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH DUCTWORK, LIGHT FIXTURES, SKYLIGHTS, ETC.
7. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL CONDENSATE DRAIN CONNECTIONS TO MECHANICAL EQUIPMENT.
8. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING CONDITIONS PRIOR TO PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
9. FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND LOCATIONS, REFER TO THE ARCHITECTURAL DRAWINGS.
10. ALL PLUMBING CONVEYING OR DISPENSING WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH AB 1953 FOR LEAD CONTENT.
11. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.
12. ALL FIELD CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.
13. PROVIDE A DOUBLE EXTERIOR CLEAN-OUT (DFO) ON ALL SANITARY LINES EXITING THE BUILDING.
14. FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER
15. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.
16. ALL DOMESTIC COLD AND HOT WATER TAKE-OUTS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.
17. CONTRACTOR SHALL DETERMINE ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.
18. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED TO PREVENT FREEZING.
19. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER APPLICABLE PROJECT SPECIFICATIONS.

MEP COMPONENT ANCHORAGE NOTES:

- ALL MECHANICAL PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR ORIGINALLY ANCHORED TO THE BUILDING STRUCTURE AS REQUIRED BY THE REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1707.1 AND 1710.1.1 THROUGH 1710.1.1.26 AND ASIDE 1-7 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 100VOLT/120V RECEPTACLES HAVING A MOVABLE CABLE.
 - 3. TEMPORARY MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF GRAVITY 10 FEET OR MORE ABOVE THE FINISHED FLOOR OR ROOF CEILING. 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.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND SPLACEMENTS 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 19 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD PM FOR 2013 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 HANGER AND BRACE LOADS.

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

P ☐ MD ☐ PP ☒ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.

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




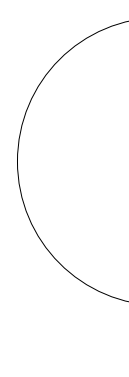
DRAWING INDEX

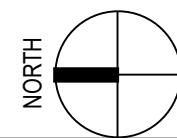
<u>SHEET</u>	<u>DESCRIPTION</u>
P0.00	PLUMBING SYMBOLS, LEGENDS AND NOTES
P1.00	PLUMBING SITE PLAN
PD2.01	PLUMBING FLOOR PLANS - DEMO
P2.01	PLUMBING FLOOR PLANS
P3.01	PLUMBING ROOF & CLERESTORY PLANS
P5.01	PLUMBING SCHEDULES
P6.01	PLUMBING DETAILS

ABBREVIATIONS

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

AP	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	PV	POST INDICATOR VALVE
C/C	CUT AND CAP	PRV	PRESSURE REDUCING VALVE
CFH	CUBIC FEET PER HOUR	RD	ROOF DRAIN
CFPS	CUBIC FEET PER SECOND	RE:	REFER TO
CI	CAST IRON	R.I.C.	ROUGH-IN AND CONNECT
CLG	CEILING	R.O	REVERSE OSMOSIS
CO	CLEANOUT	RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
CONN	CONNECTION	RPM	REDUCTIONS 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	URNAL
FDV	FIRE DEPARTMENT VALVE	U/F	UNDERFLOOR
F.F.	FINISHED FLOOR	U/S	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	ZH	YARD HYDRANT
GB	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)	ZFITEM NOTED TO RELOCATED
MECH	MECHANICAL		

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-121818 INC: REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: 08/11/2023		
<div>PBK</div>		
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<div>WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION</div> <div>PROJECT ADDRESS: 1442 Hooper St Westminster, CA 92683</div> <div>DSA SUBMITTAL</div> <div>DSA FILE NO: 30-43 DSA APPL NO: 04-121818</div>		
<div><div><div><div>E4</div><div>E3</div><div>E2</div><div>E1</div></div><div><div>D4</div><div>D3</div><div>D2</div><div>D1</div></div><div><div>F1</div><div>F2</div><div>F3</div><div>F4</div></div></div><div><div>C</div><div>B</div><div>A</div><div>MP</div><div>LD</div><div>PSI</div><div>K</div></div><div>KEY PLAN</div><div> NORTH: PLAN</div></div>		
<div>Consultant</div> <div></div>		
<div>Architect</div> <div></div>		
CLIENT WESTMINSTER SCHOOL DISTRICT		
DATE 12-29-2022		PROJECT NUMBER 220309
REVISIONS		
No.	Description	Date
DSA SUBMITTAL		
PLUMBING SYMBOLS, LEGENDS AND NOTES		



KEY NOTES

1 SCOPE OF WORK.

IDENTIFICATION STAMP
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REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
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Westminster, CA 92683

DSA SUBMITTAL

DSA APPL NO. 04-121818 DSA FILE NO. 30-43

Consultant
REGISTERED PROFESSIONAL ENGINEER
No. 102615
Exp. 10-30-2026
DAVID B. BROWN
STATE OF CALIFORNIA

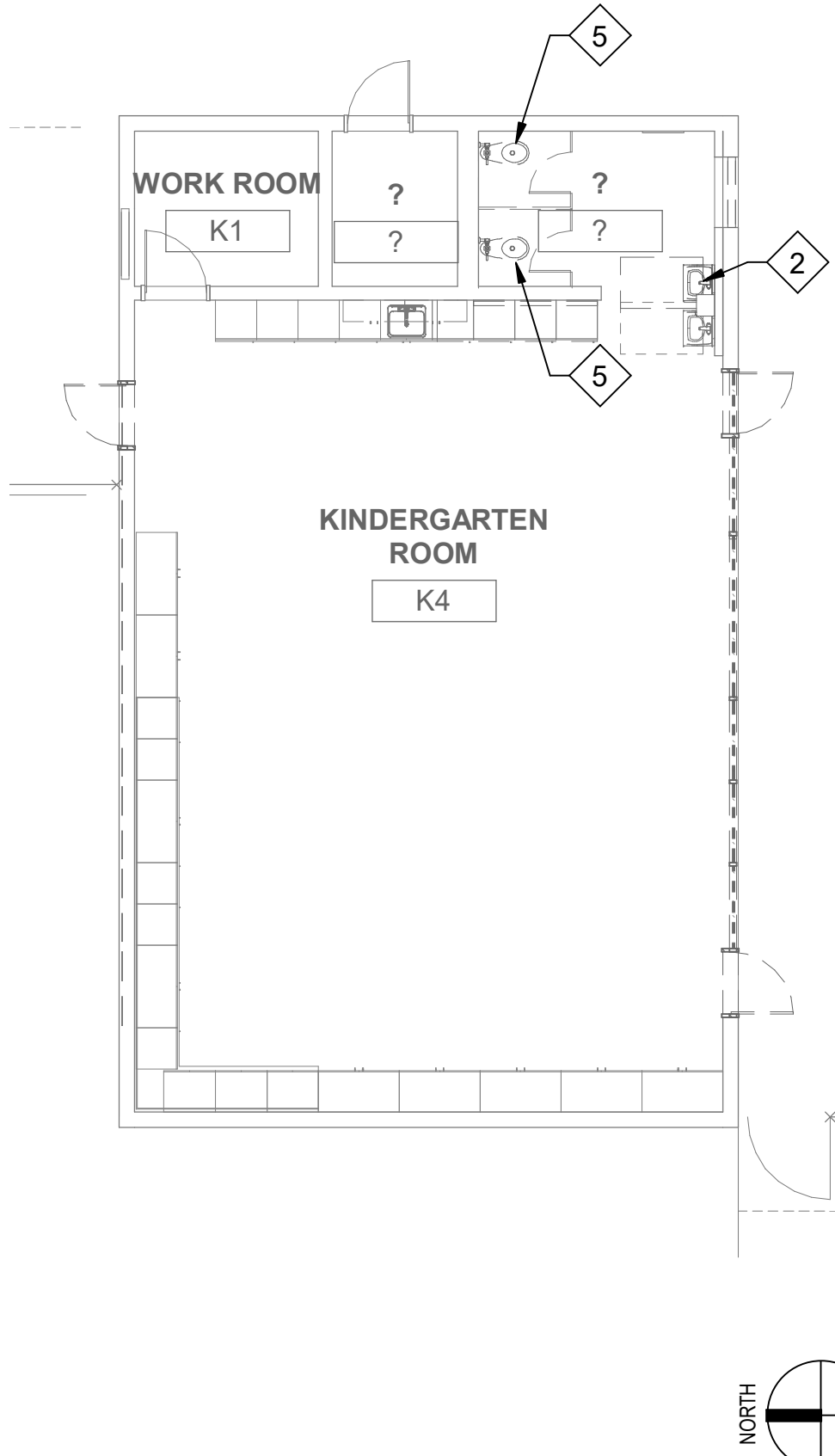
Architect
Circular stamp for David Brown, Architect, State of California.

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WESTMINSTER SCHOOL DISTRICT		
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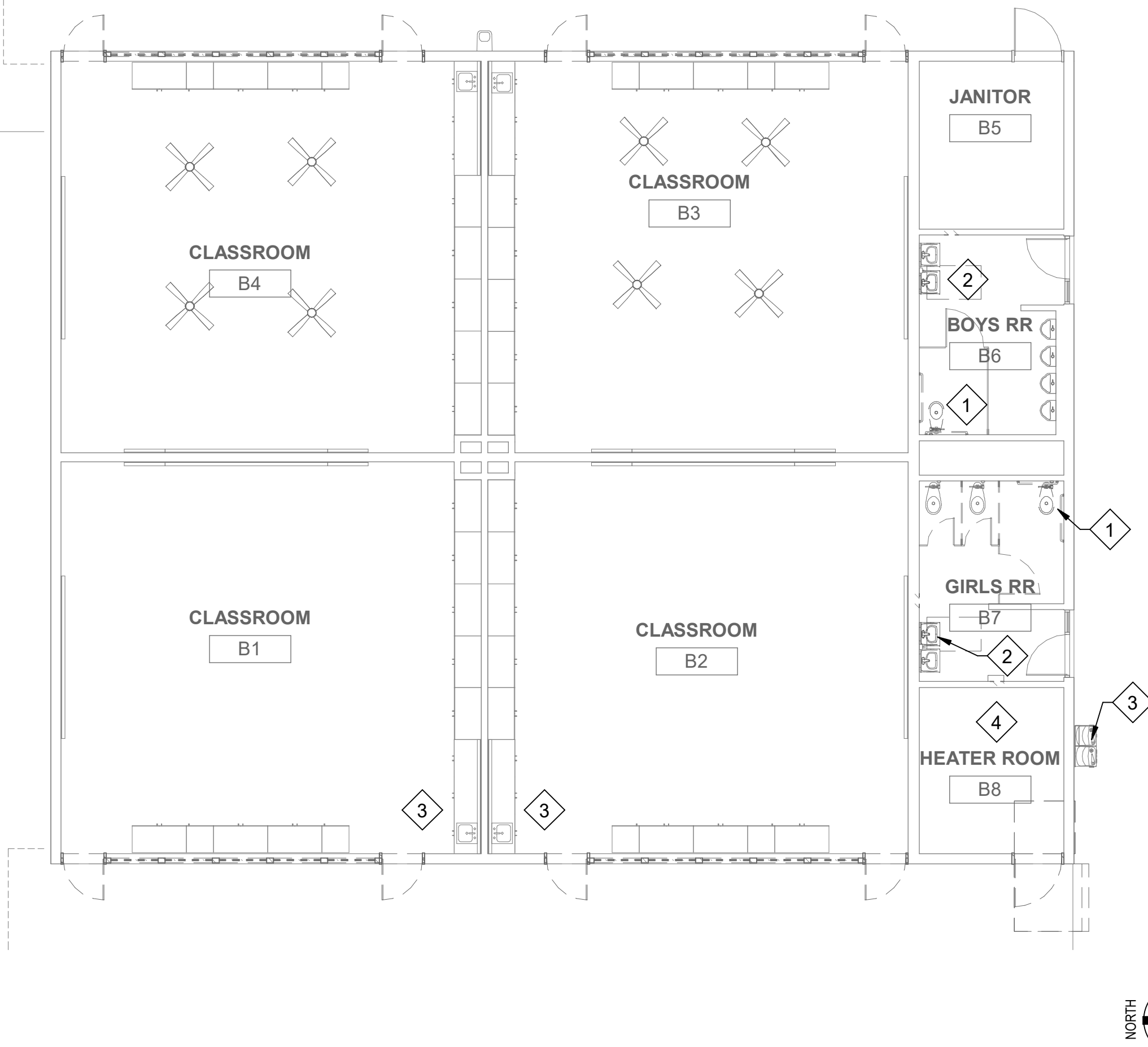
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PLUMBING SITE PLAN

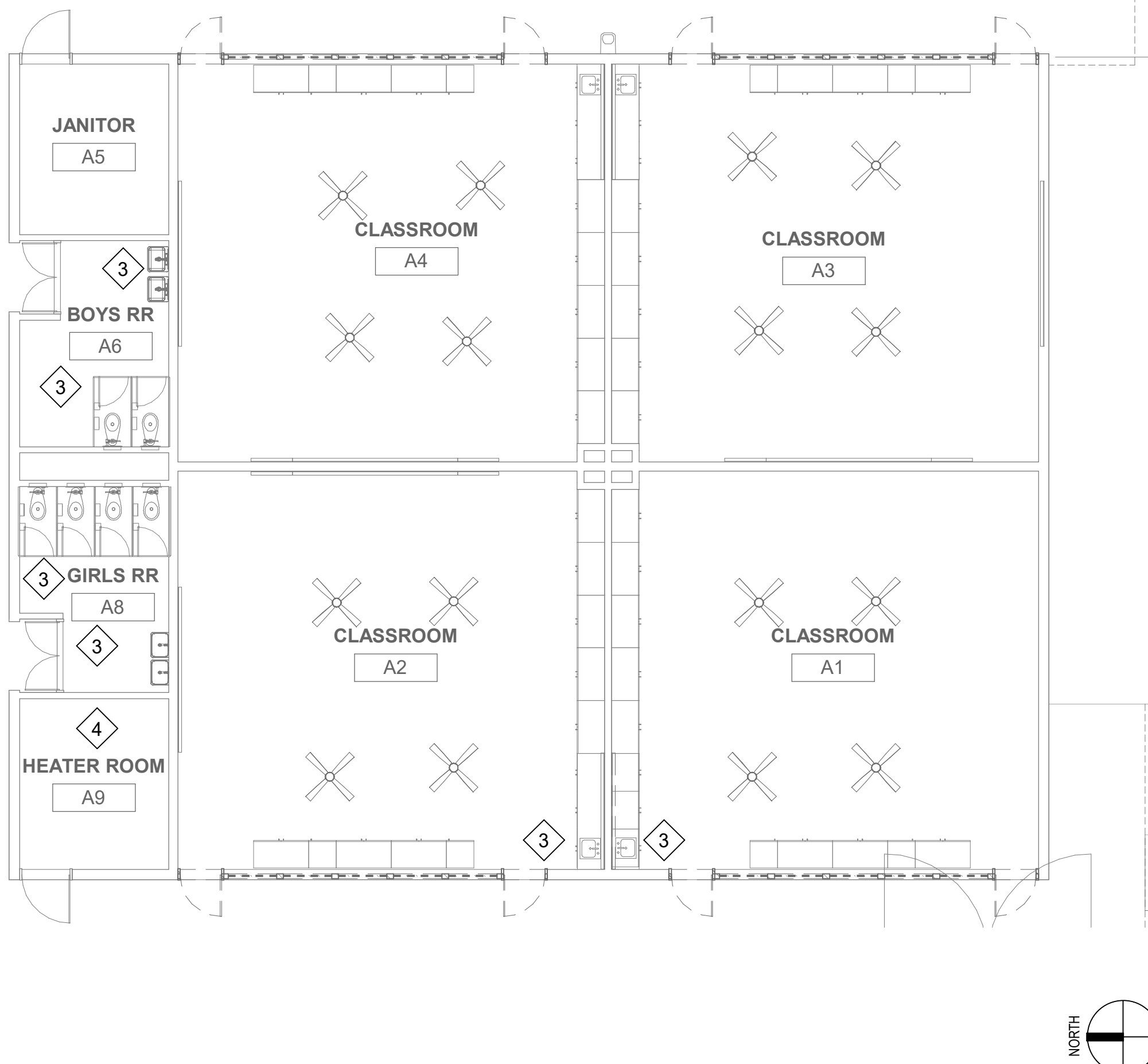
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1/8" = 1'-0"



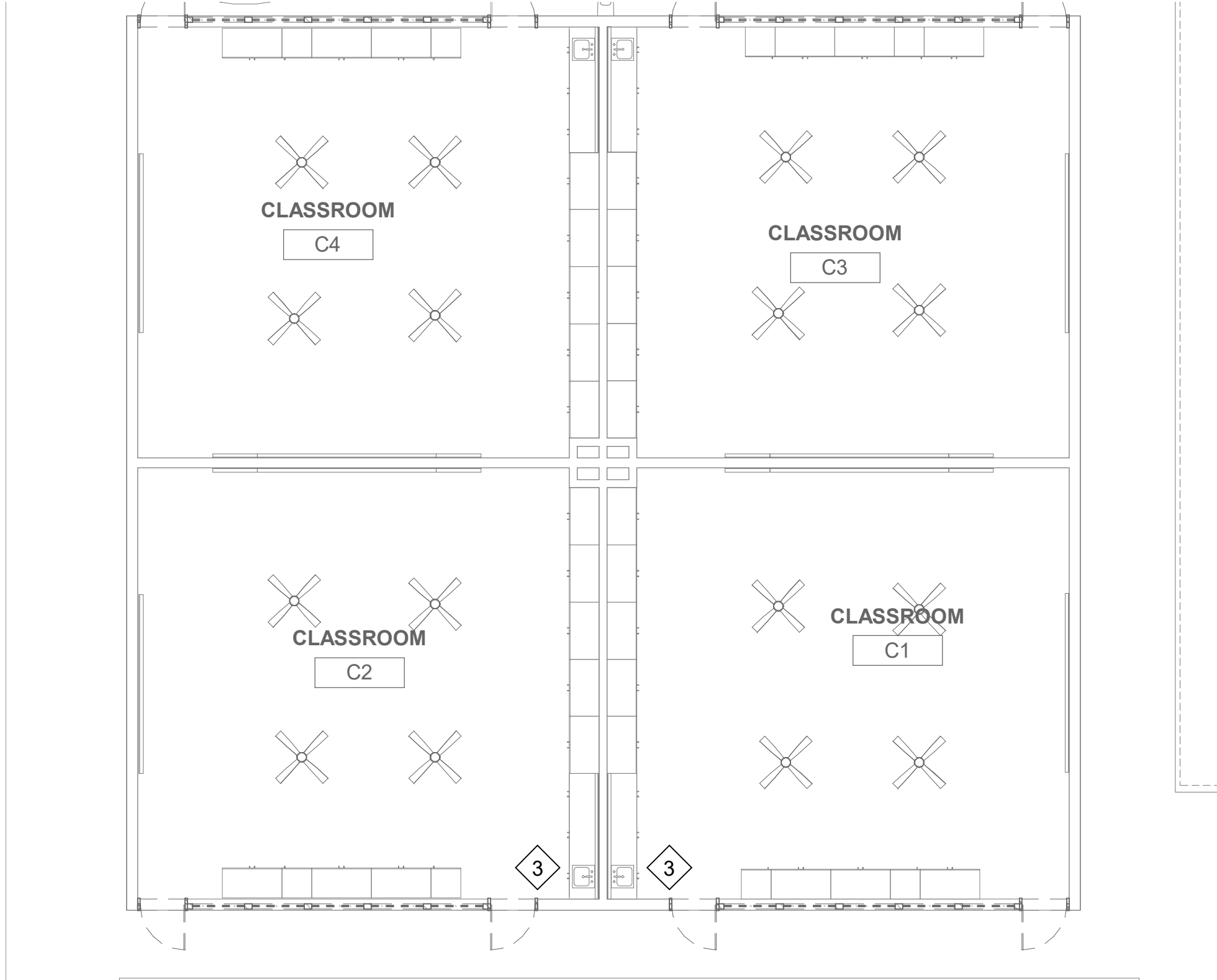
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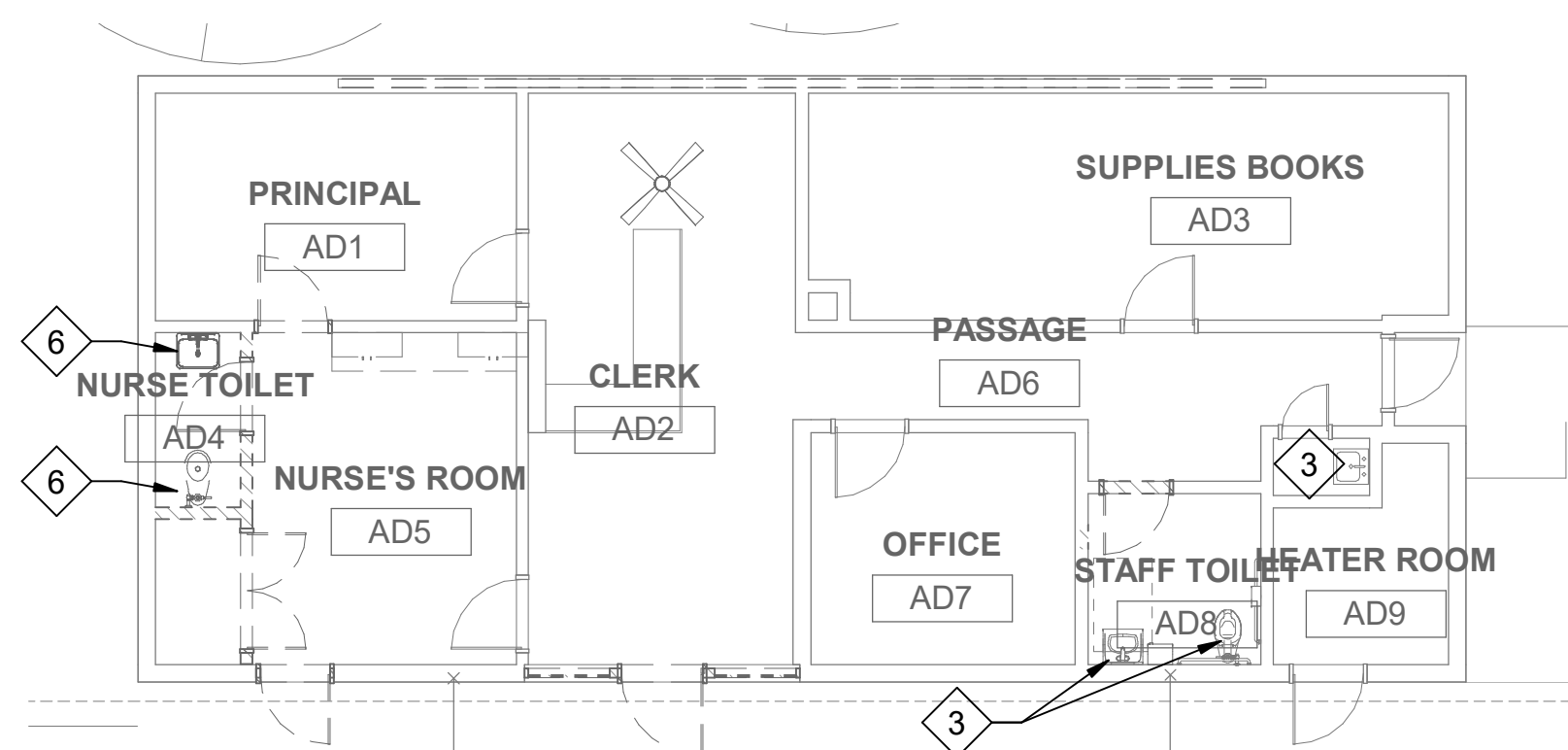
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1/8" = 1'-0"



4 BLDG C - FLOOR PLAN - DEMO
1/8" = 1'-0"



5 BLDG ADMIN - FLOOR PLAN - DEMO
1/8" = 1'-0"

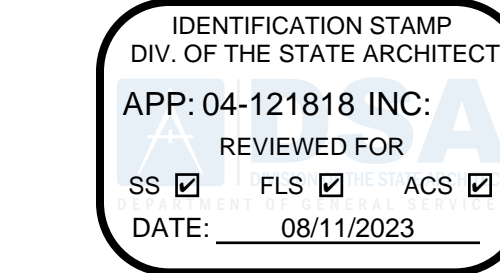


DEMO KEY NOTES

- EXISTING WATER CLOSET TO BE REMOVED AND REPLACED. CAP EXISTING UTILITIES TEMPORARILY FOR REPLACEMENT WATER CLOSET.
- EXISTING LAVATORY TO BE REMOVED AND REPLACED. CAP EXISTING UTILITIES TEMPORARILY FOR REPLACEMENT LAVATORY.
- EXISTING PLUMBING FIXTURE TO REMAIN
- MECHANICAL EQUIPMENT TO BE DEMOLISHED. REFER TO HVAC PLANS. CAP EXISTING 1 1/2" GAS AND 2" MAKE UP WATER TO MECHANICAL BOILER
- EXISTING RESTROOMS FIXTURES TO BE RE-CONFIGURED. EXISTING PLUMBING FIXTURE TO BE REMOVED. AND ALL APPURTENANCES. CAP EXISTING 4" SANITARY BELOW GRADE WITHIN SCOPE OF WORK. TEMPORARILY CAP EXISTING VENT AND WATER LINES ABOVE IN CEILING SPACE BACK TO THE MAIN BRANCH.
- EXISTING RESTROOMS FIXTURES TO BE RE-CONFIGURED. EXISTING PLUMBING FIXTURE TO BE REMOVED. AND ALL APPURTENANCES. CAP EXISTING SANITARY BELOW GRADE WITHIN SCOPE OF WORK. TEMPORARILY CAP EXISTING VENT AND WATER LINES ABOVE IN CEILING SPACE BACK TO THE MAIN BRANCH.

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.



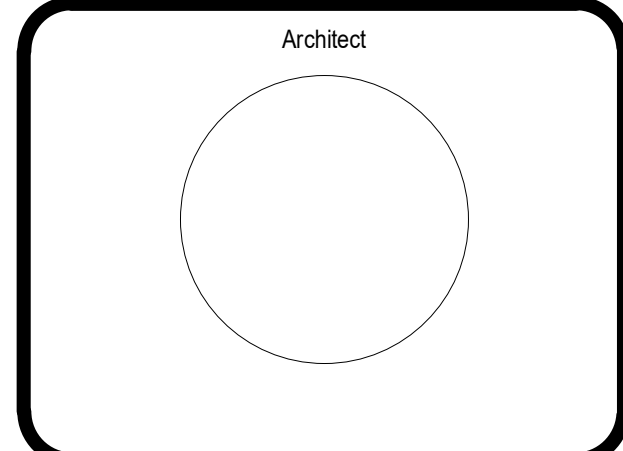
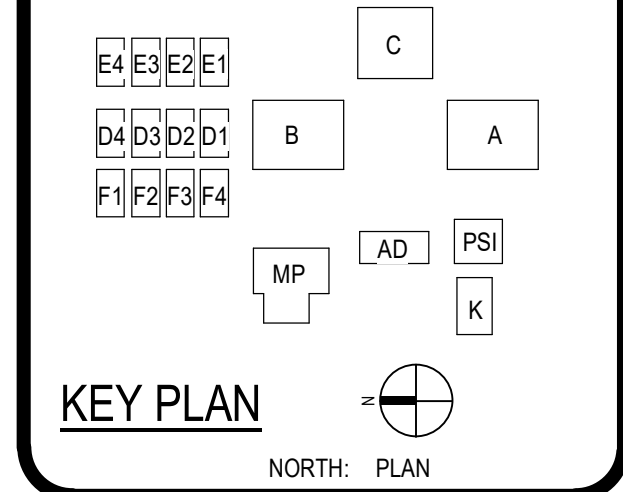
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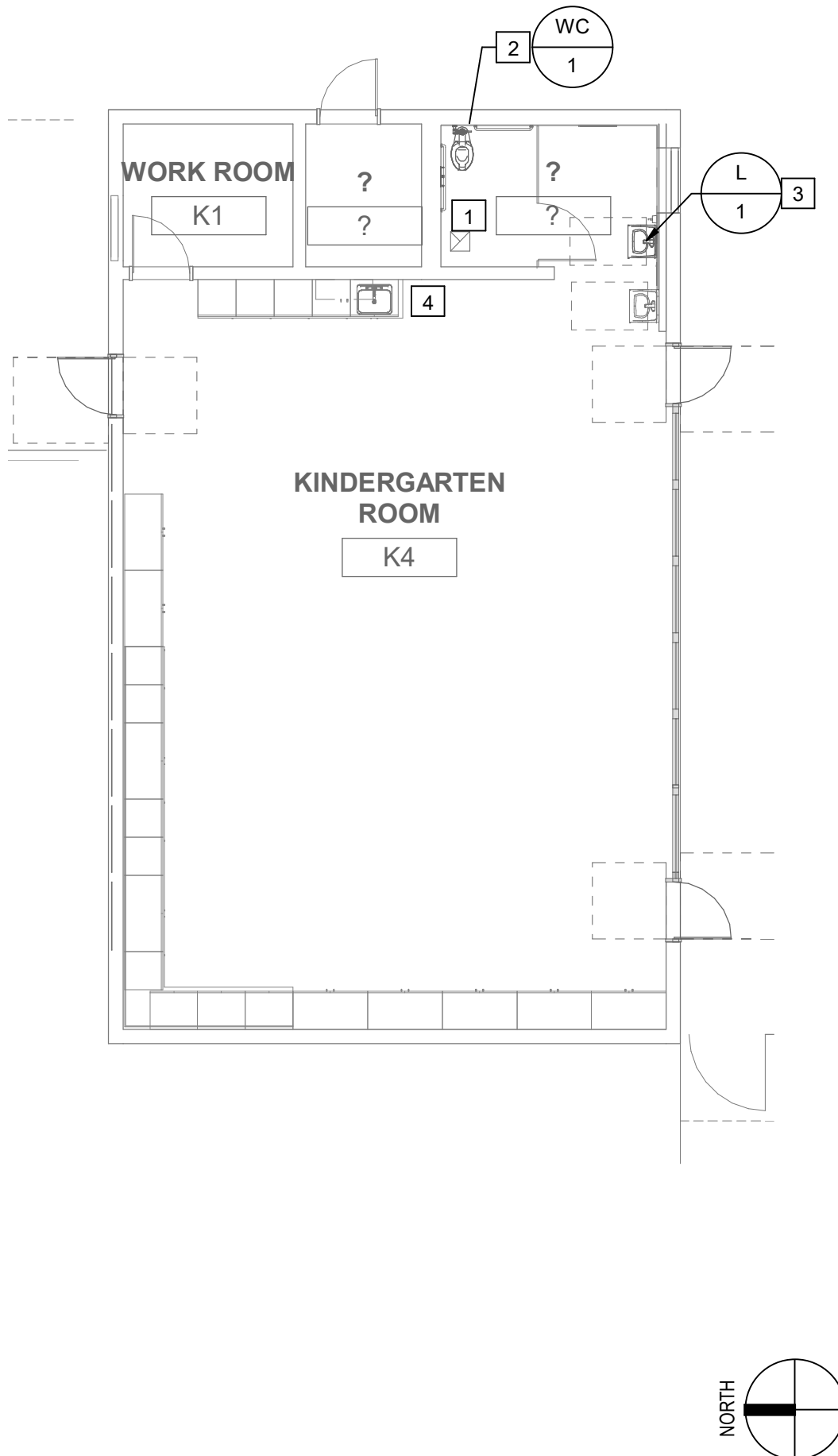
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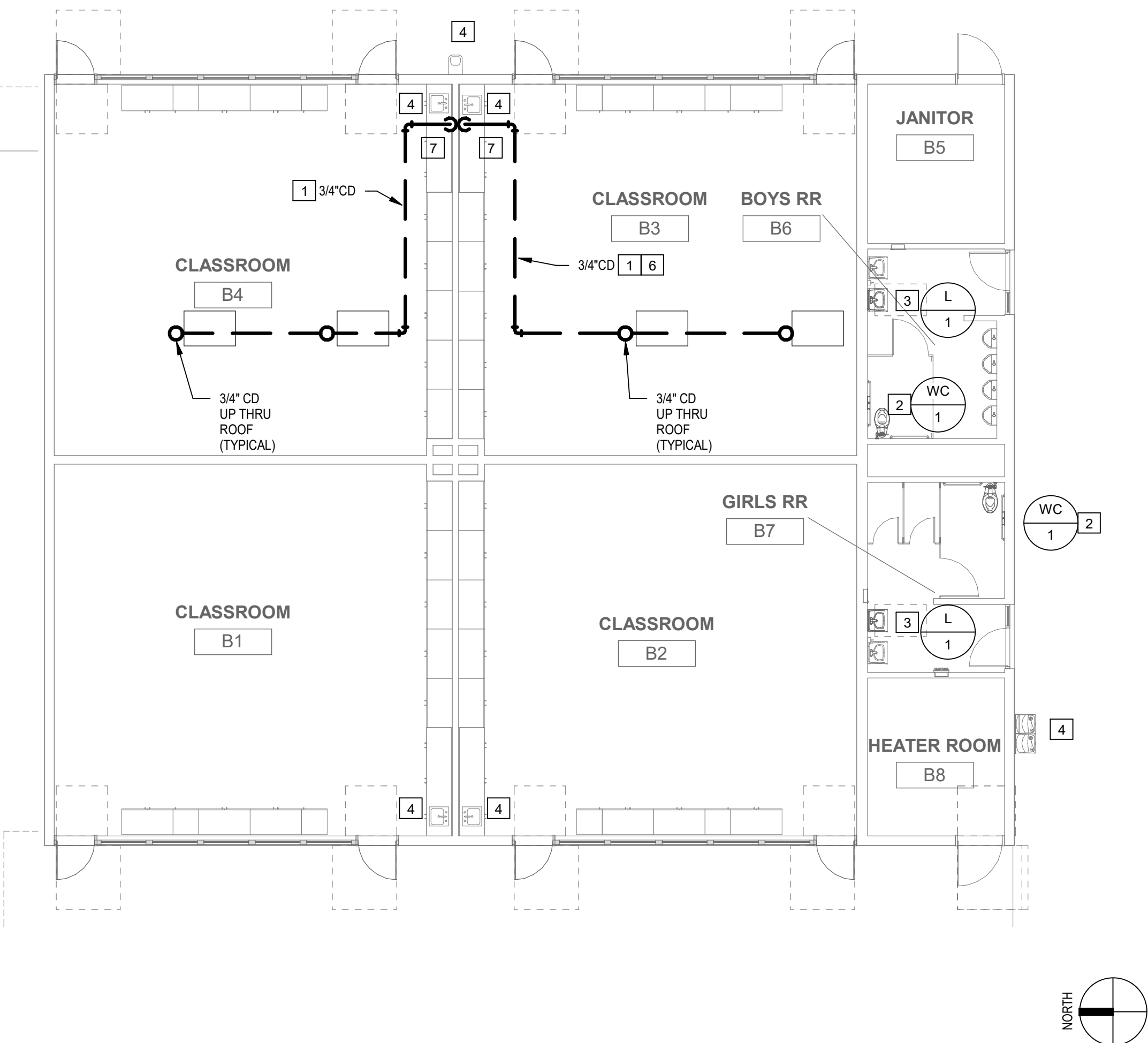
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PLUMBING FLOOR PLANS - DEMO

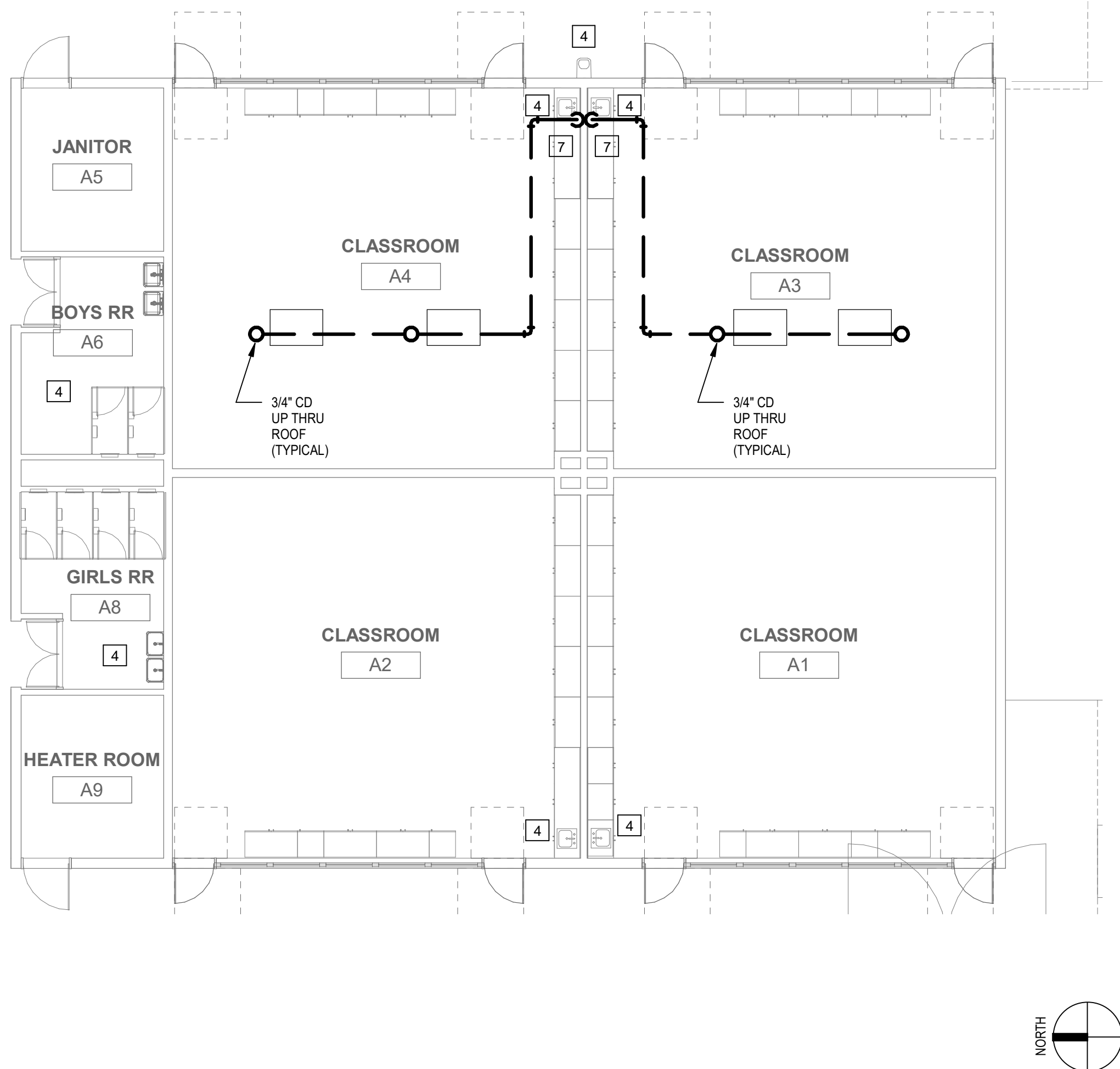
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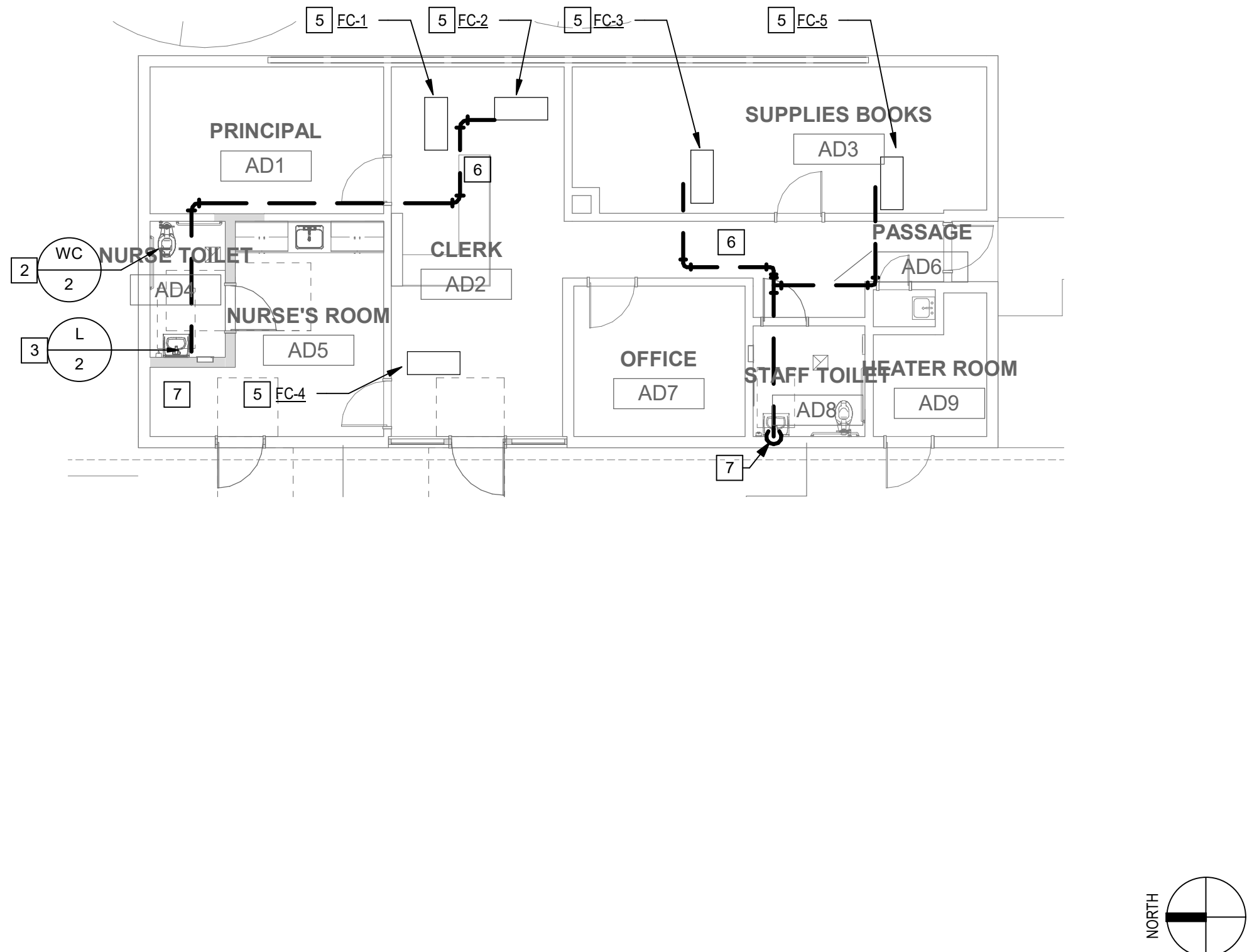
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1/8" = 1'-0"



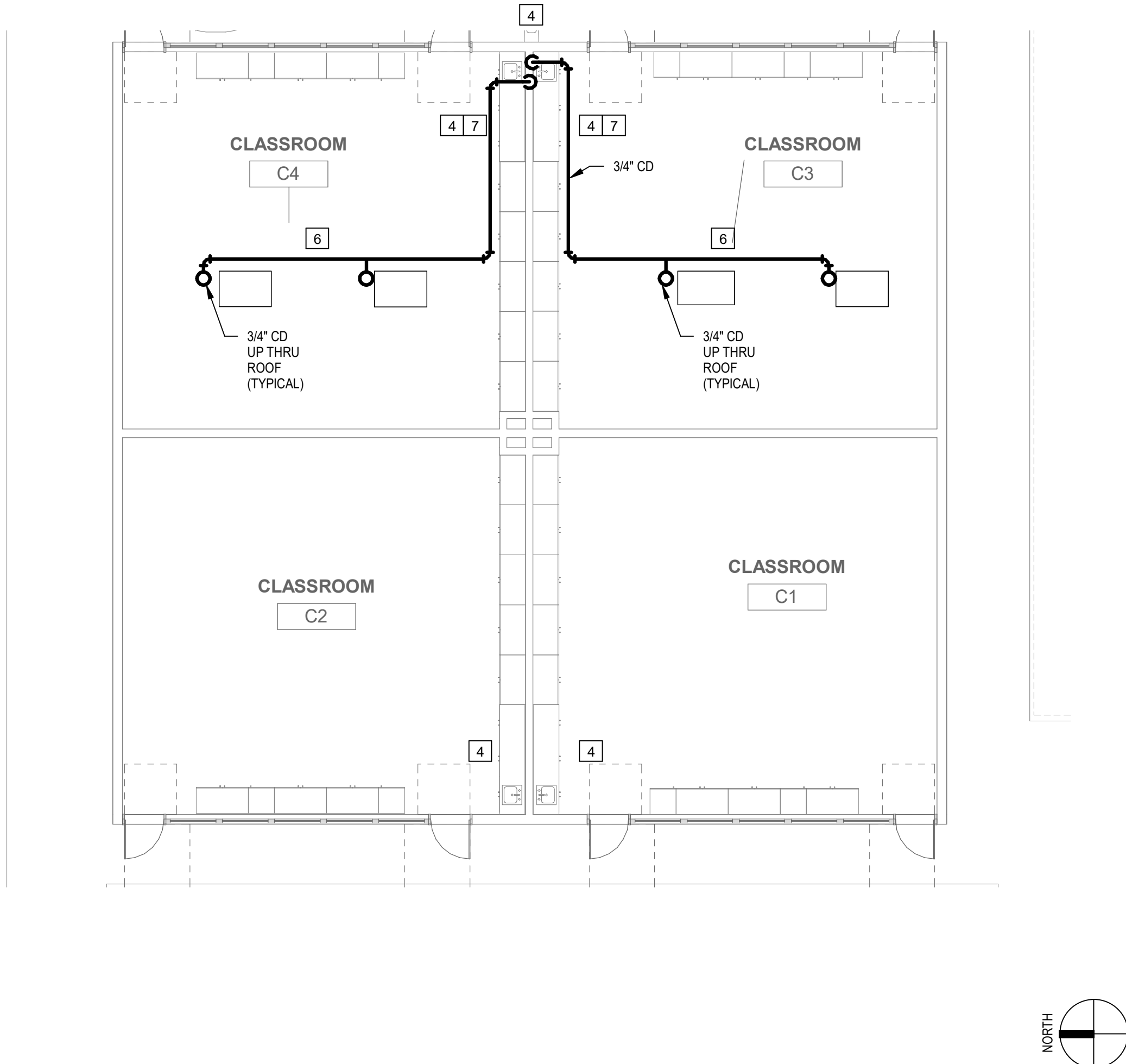
1 BLDG A - FLOOR PLAN
1/8" = 1'-0"



5 BLDG ADMIN - FLOOR PLAN
1/8" = 1'-0"



4 BLDG C - FLOOR PLAN
1/8" = 1'-0"



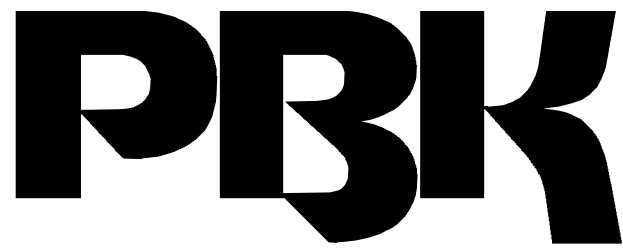
KEY NOTES

- 1 PIPING ABOVE IN ATTIC SPACE
- 2 ROUGH IN AND CONNECT 4" SANITARY SEWER, 2" VENT AND 1-1/4" CW TO WATER CLOSET. 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.
- 3 LAVATORY AND FAUCET TO BE INSTALLED ADA COMPLIANT. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ANGLE STOP, SINK SUPPLY, COMPLETE WITH LOOSE KEY, CHROME ESCUTCHEON PLATE COMPRESSION INLET, HEAVY DUTY OUTLET RISER, ROUGH IN AND CONNECT 2" SANITARY SEWER, 2" VENT AND 1/2" H CW. 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.
- 4 EXISTING PLUMBING FIXTURE
- 5 NEW FAN COIL UNITS (BY MECHANICAL) PROVIDE CONDENSATE TRAP AND VENT AS REQUIRED SEE DETAIL 01 / P6.01
- 6 3/4" CONDENSATE IN ATTIC SPACE SLOPE @ 1%
- 7 3/4" CONDENSATE FROM ABOVE. DROP DN. IN WALL TO LAV TAIL PIECE SEE DETAIL 02/ P6.01

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: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
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
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909-857-0909
leafengineers.com

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Howe St
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER
REG. NO. 102155
Exp. 09-30-2026
DAVID BING
STATE OF CALIFORNIA

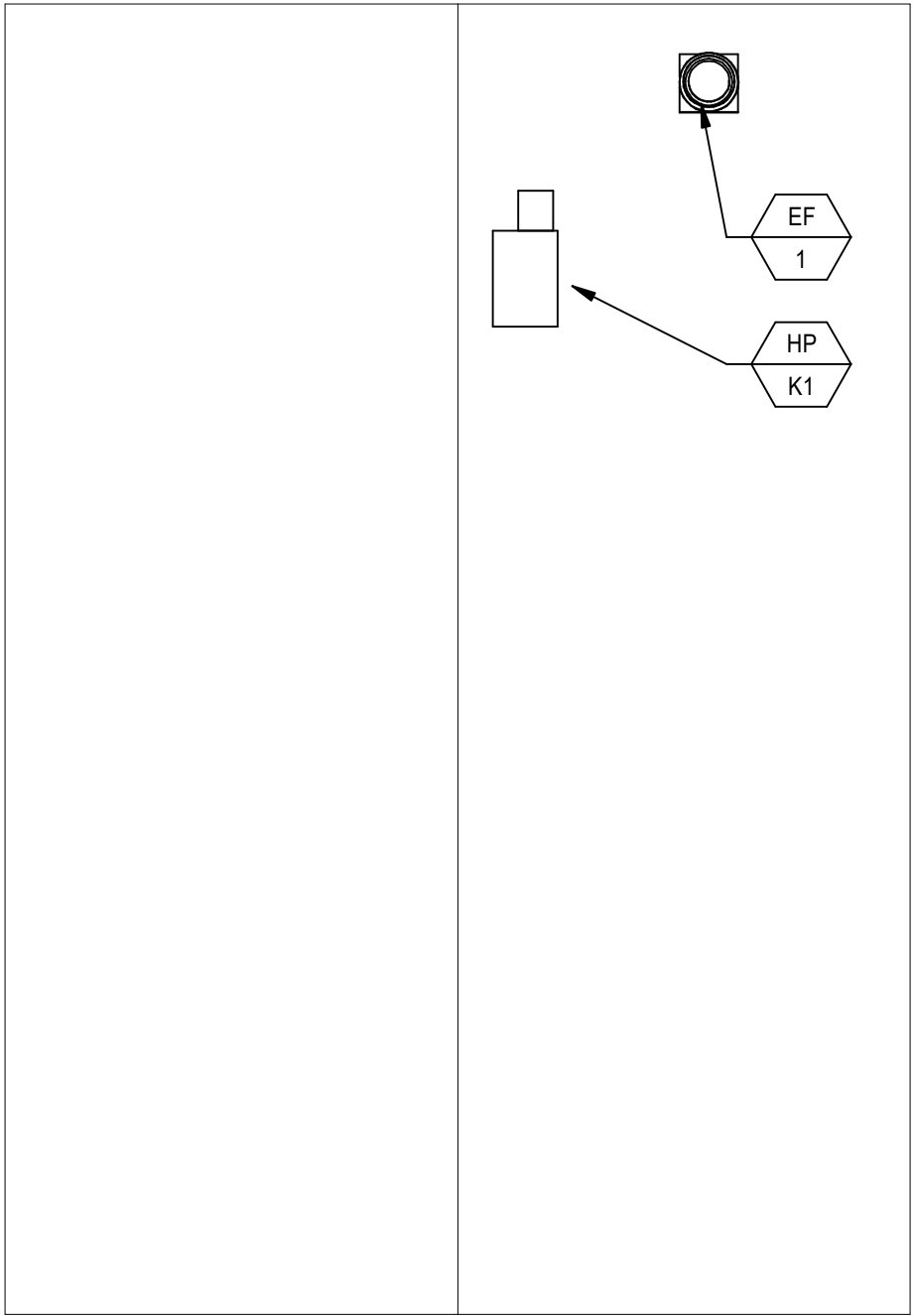
Architect

REVISIONS		
No.	Description	Date

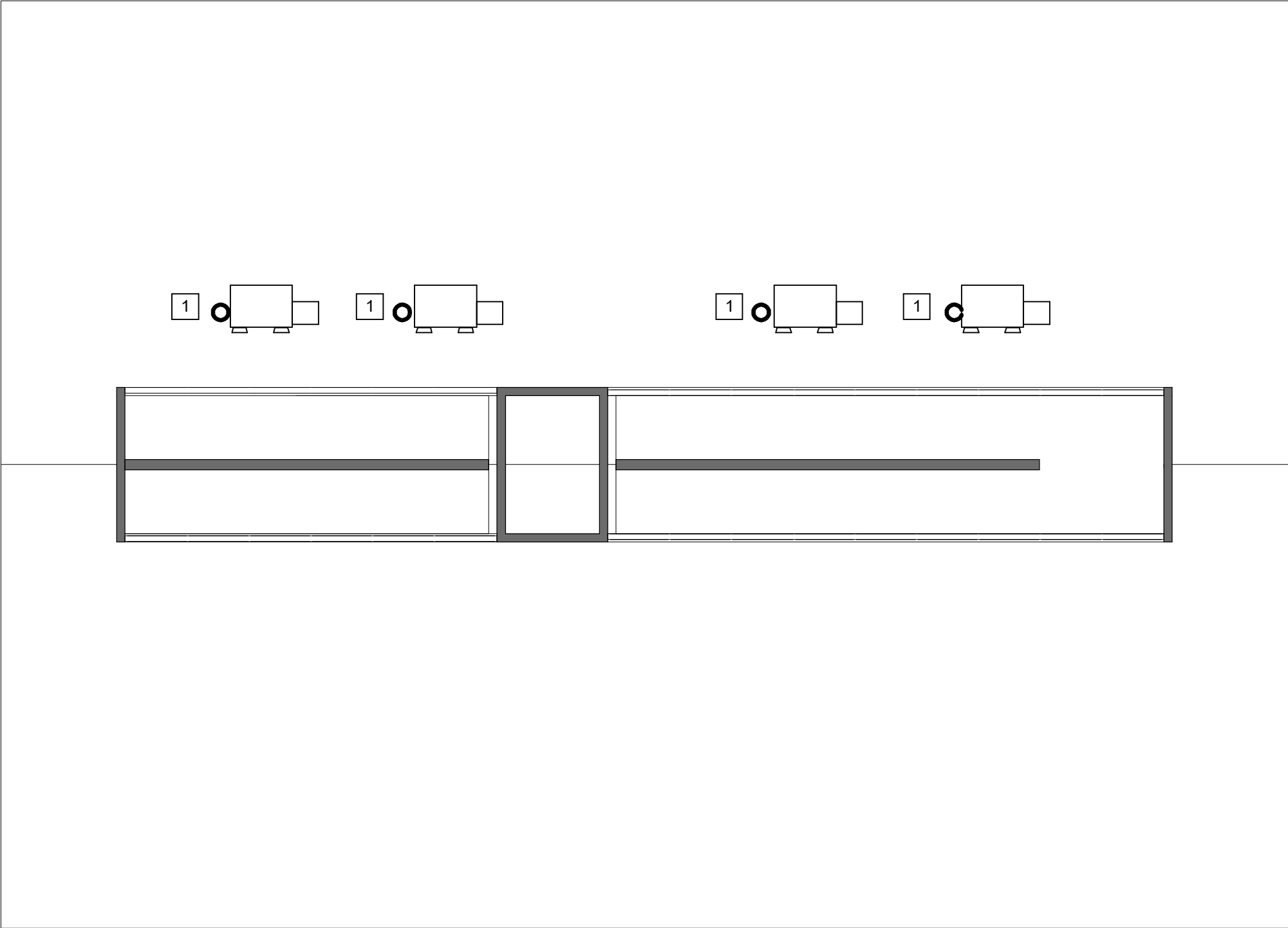
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309
DSA SUBMITTAL
PLUMBING FLOOR PLANS



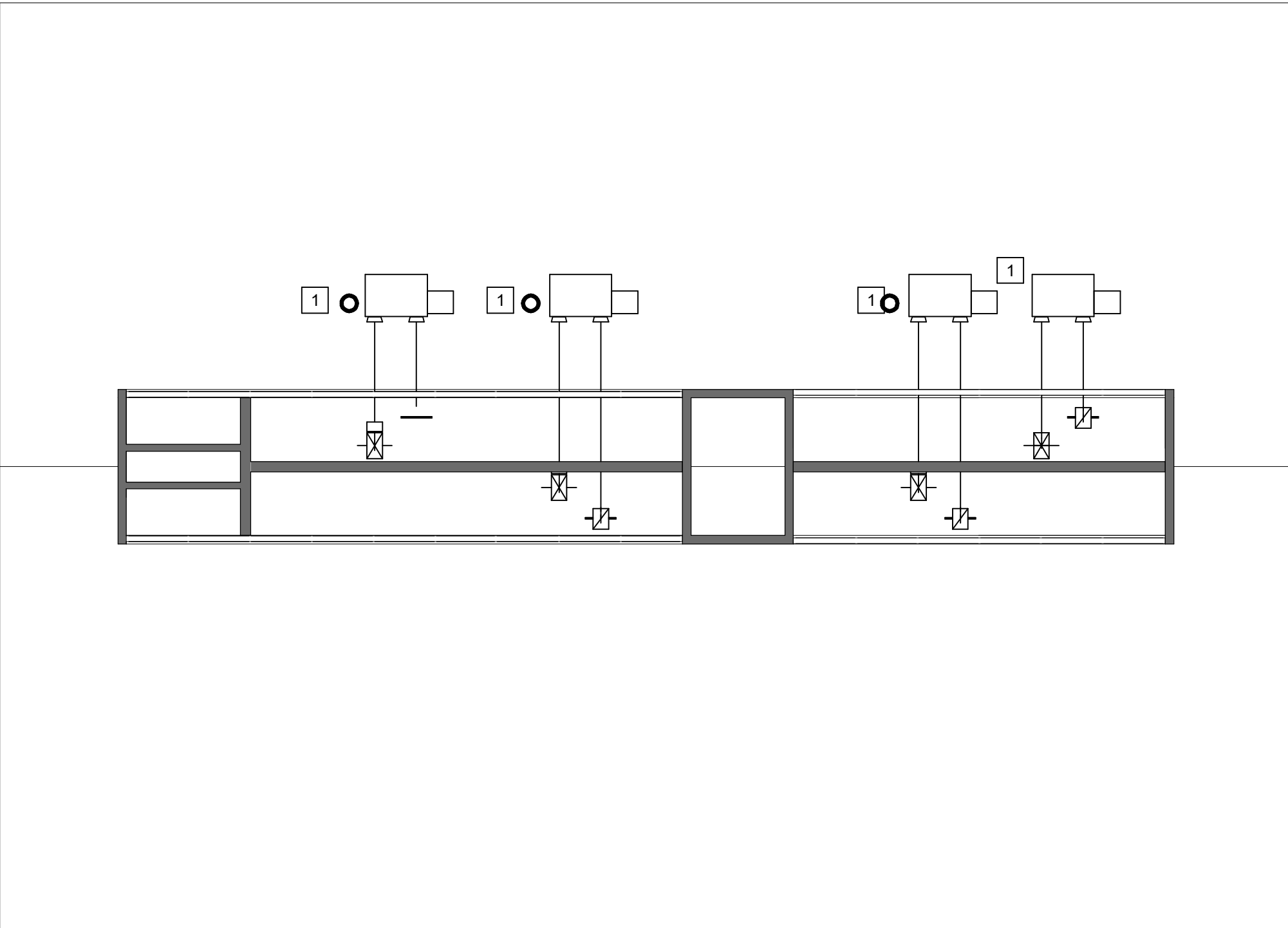
3 BLDG K - ROOF PLAN
1/8" = 1'-0"



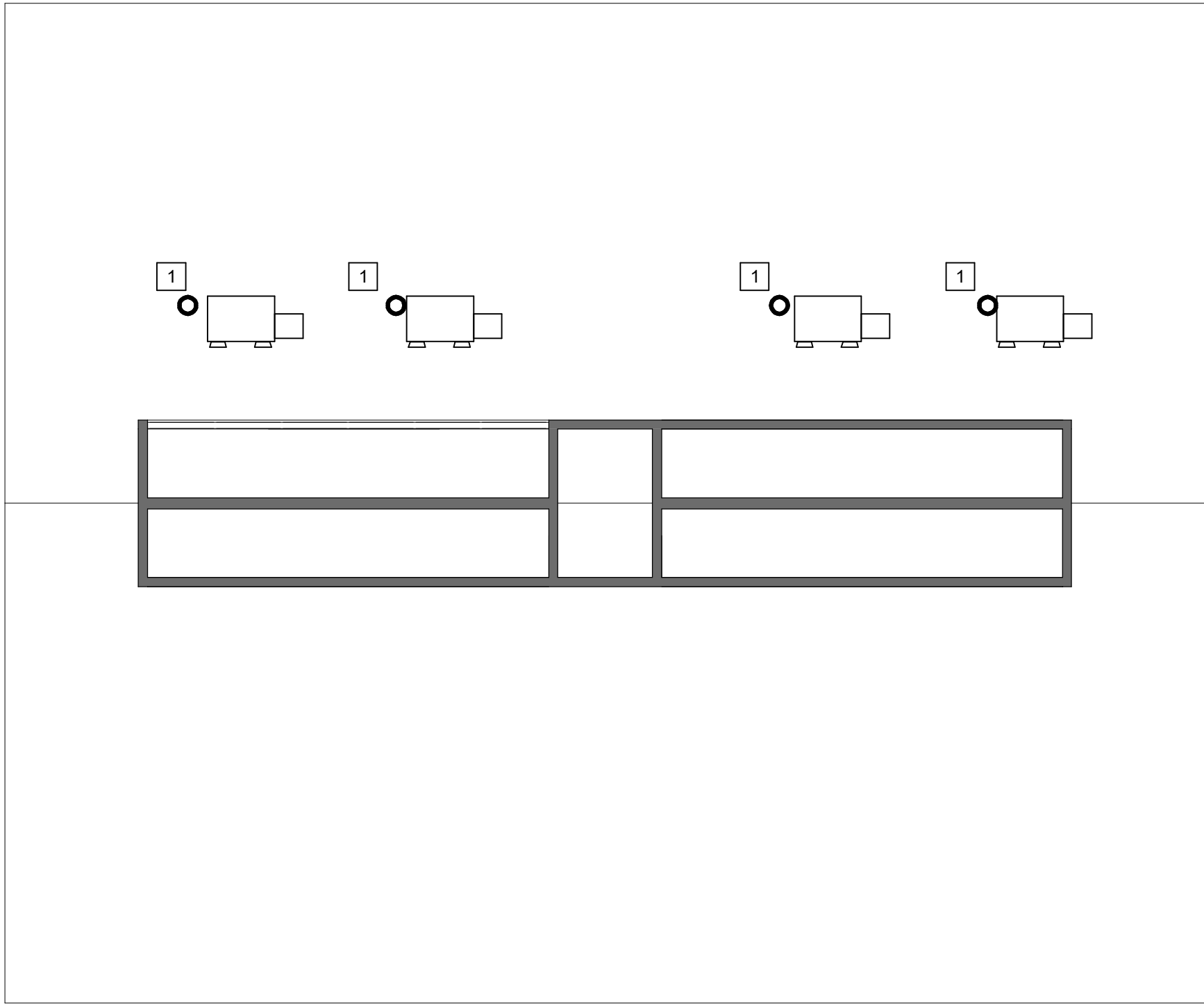
2 BLDG B - ROOF PLAN
1/8" = 1'-0"



1 BLDG A - ROOF PLAN
1/8" = 1'-0"



4 BLDG C - ROOF PLAN
1/8" = 1'-0"



5 BLDG ADMIN - ROOF PLAN
1/8" = 1'-0"



KEY NOTES

- 1 NEW A/C UNITS (BY MECHANICAL) PROVIDE 3/4" CONDENSATE LINE, TRAP AND VENT AS REQUIRED. ROUTE 3/4" CONDENSATE DOWN THROUGH ROOF

3
P6.01

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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO. 04-121818 DSA FILE NO. 30-43

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER
REG. DAVID B. BING
No. M08195
Exp. 09-30-2026
STATE OF CALIFORNIA

Architect

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309
REVISIONS
No. Description Date

DSA SUBMITTAL
PLUMBING ROOF & CLERESTORY PLANS

0"

1"

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	S or W	V	OW	HW	DESCRIPTION
<div><div>WC</div><div>1</div></div>	WATER CLOSET (KINDER)	4"	2"	1-1/2"	---	AMERICAN STANDARD MADERA YOUTHWISE # 2536 601 1/28 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 (ADA)	4"	2"	1-1/2"	---	AMERICAN STANDARD MADERA FLOWISE # 2854 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>L</div><div>1</div></div>	LAVATORY (KINDER GARTEN)	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD NO. 0356.041"LICERNE WALL HUNG LAVATORY" 20"X18" WALL HUNG, COMPLETE WITH FAUCET , WITH 0.5 GPM AERATOR AND VANDAL RESISTANT COVER PLATE. MCGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUS" MCGUIRE NO. PW6090NCO 1-1/4" L.A. PATTERN P-TRAP WITH TRAP AND SUPPLYCOVERS, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, CHICAGO NO. 1017 -ABCP LOOSE KEY STOPSWITH RIGID SUPPLIES, AND ZURN NO. Z-1231CARRIER WITH STEEL PLATE, MOUNT AT ADA ACCESSIBLE HEIGHT.
<div><div>L</div><div>2</div></div>	LAVATORY (STAFF)	2"	1-1/2"	1/2"	1/2"	SAME AS L-1 MOUNT AT 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.

- 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)

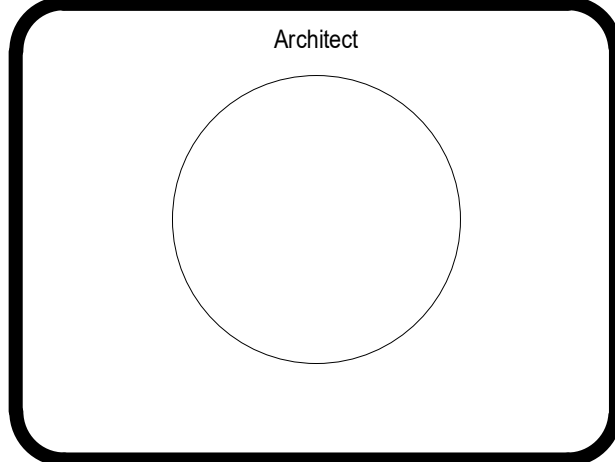
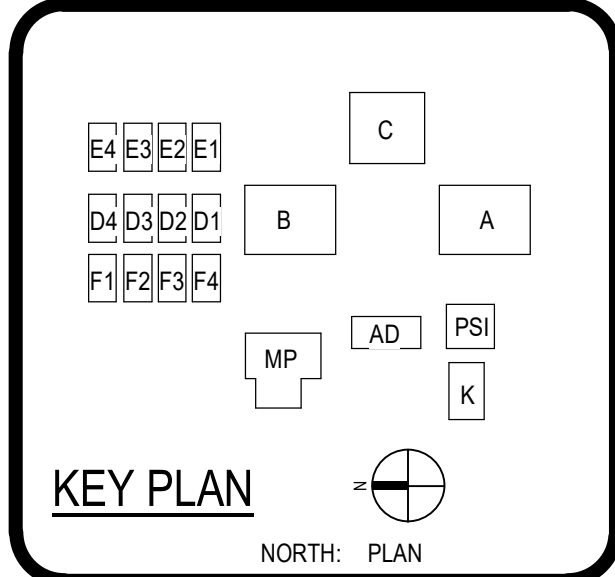
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DATE: 08/11/2023



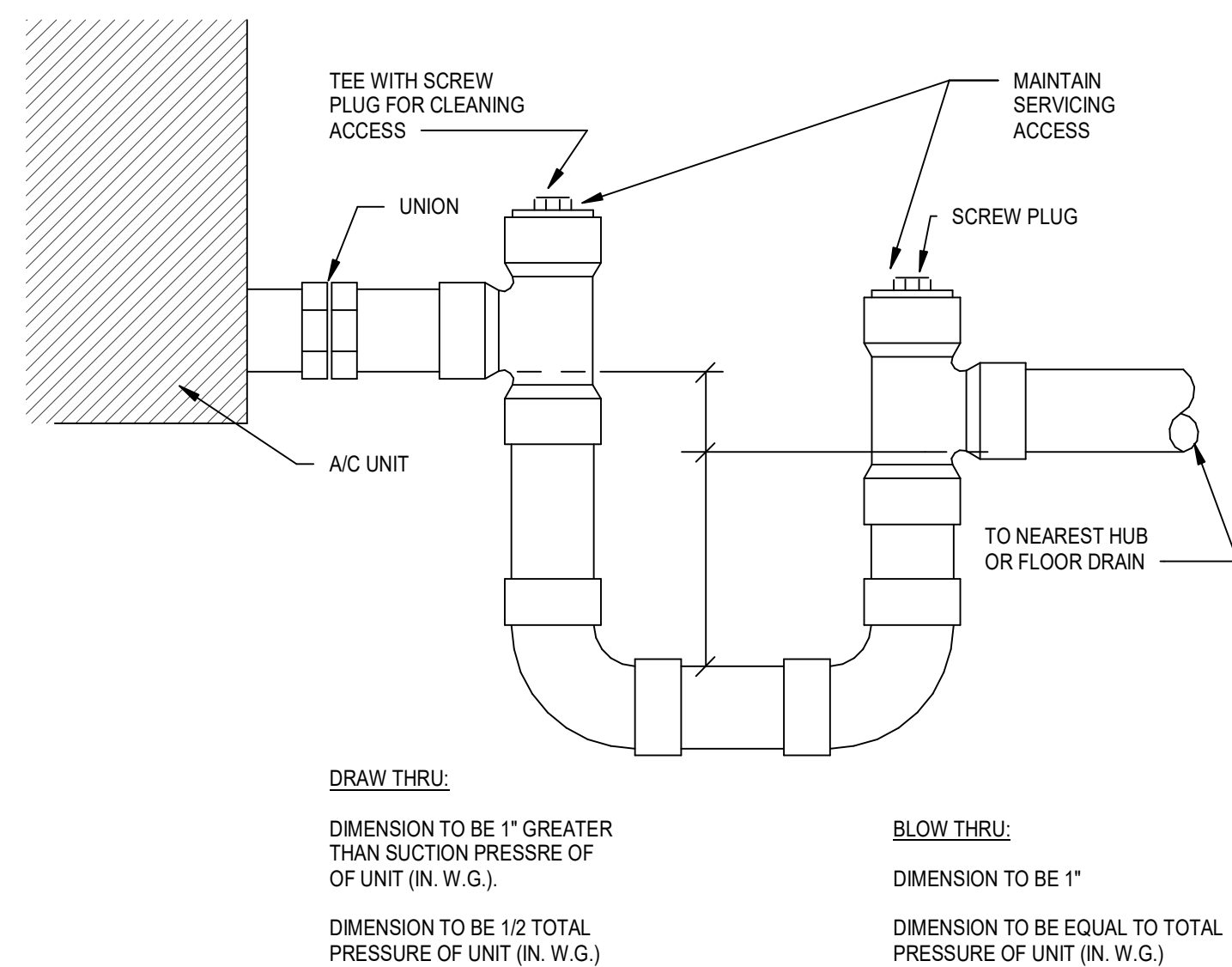
ARCHITECT PBK Architects, Inc.
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

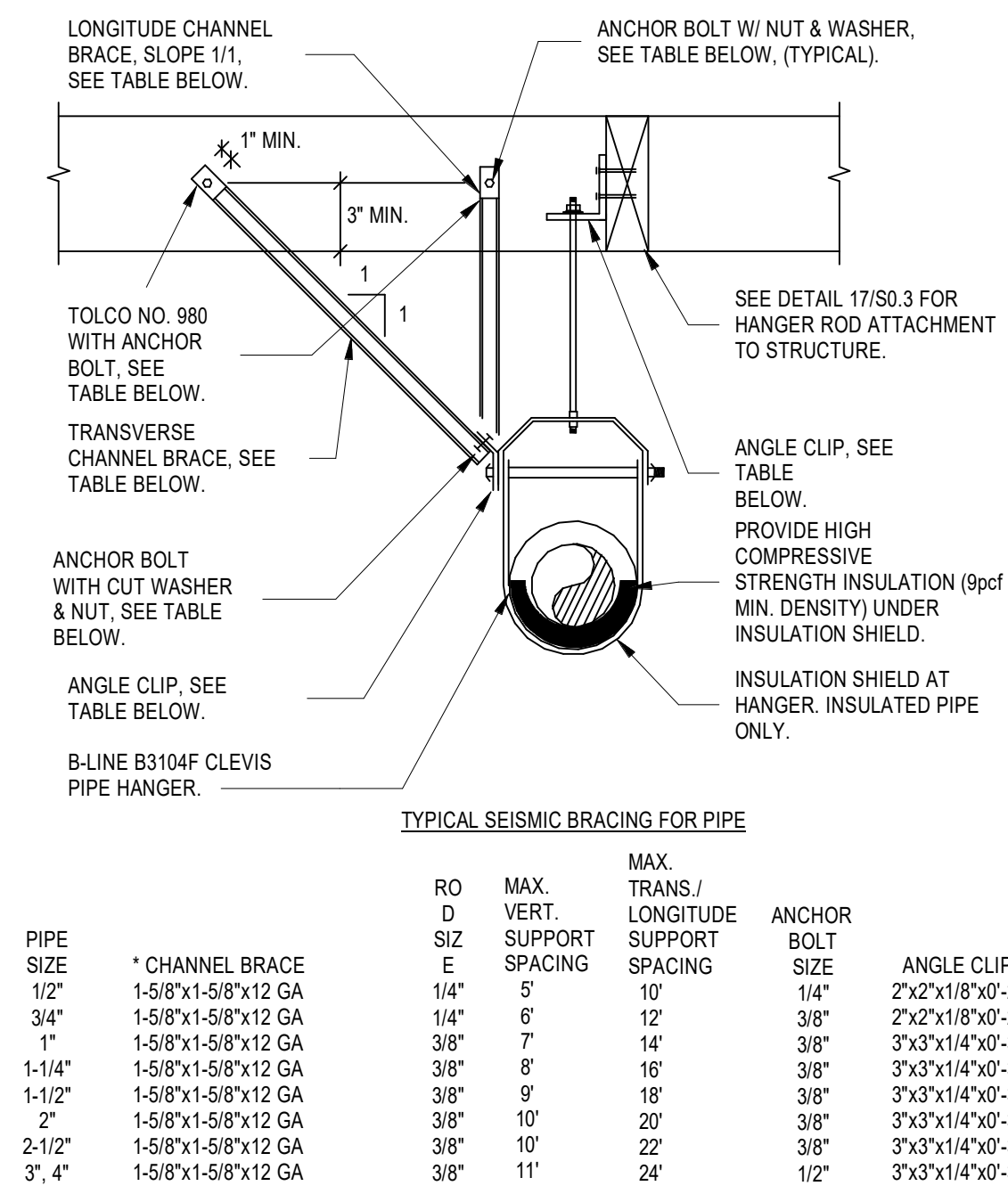
PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APP. NO. 04-121818 DSA FILE NO. 30-43



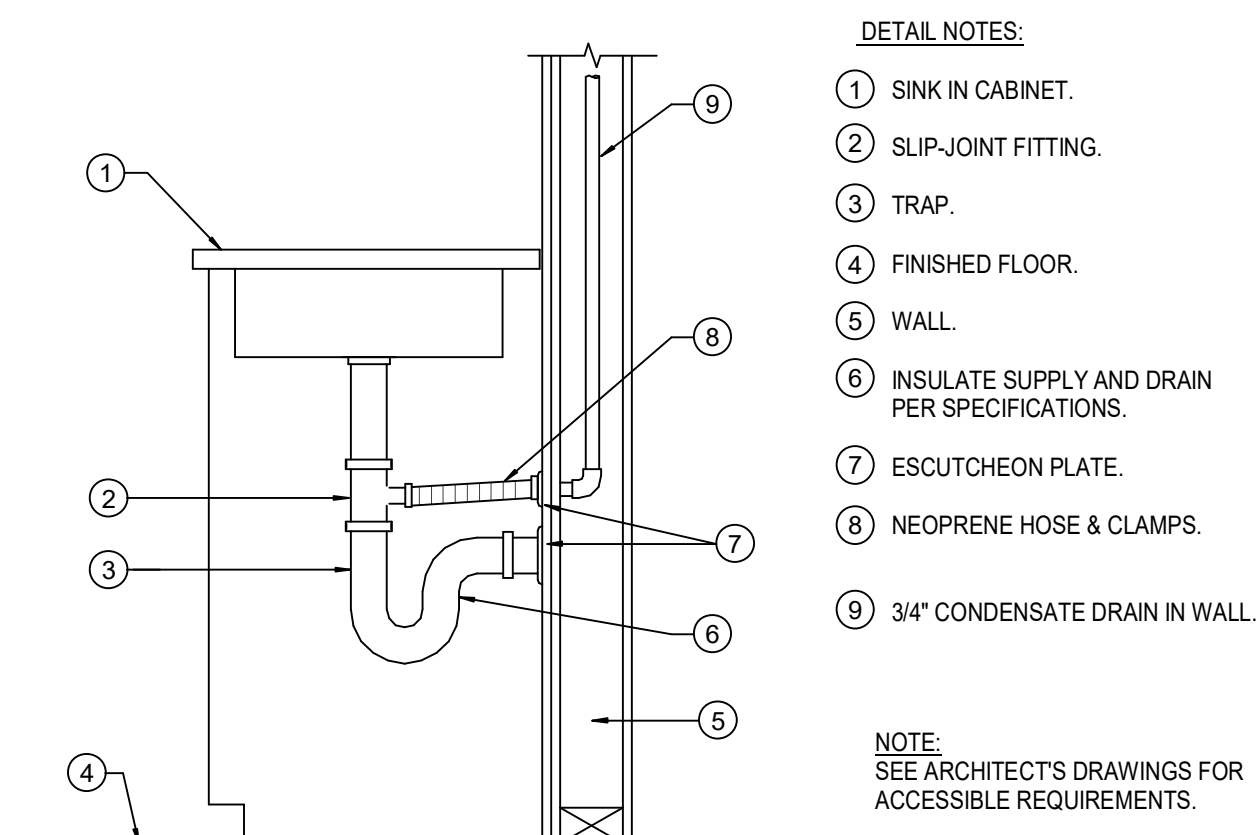
CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-29-2022	220309	
REVISIONS		
No.	Description	Date
DSA SUBMITTAL		
PLUMBING SCHEDULES		



3 CONDENSATE TRAP PIPING DETAIL



2	PIPE SUPPORT DETAIL (WOOD STRUCTURE) 12" = 1'-0"
----------	---



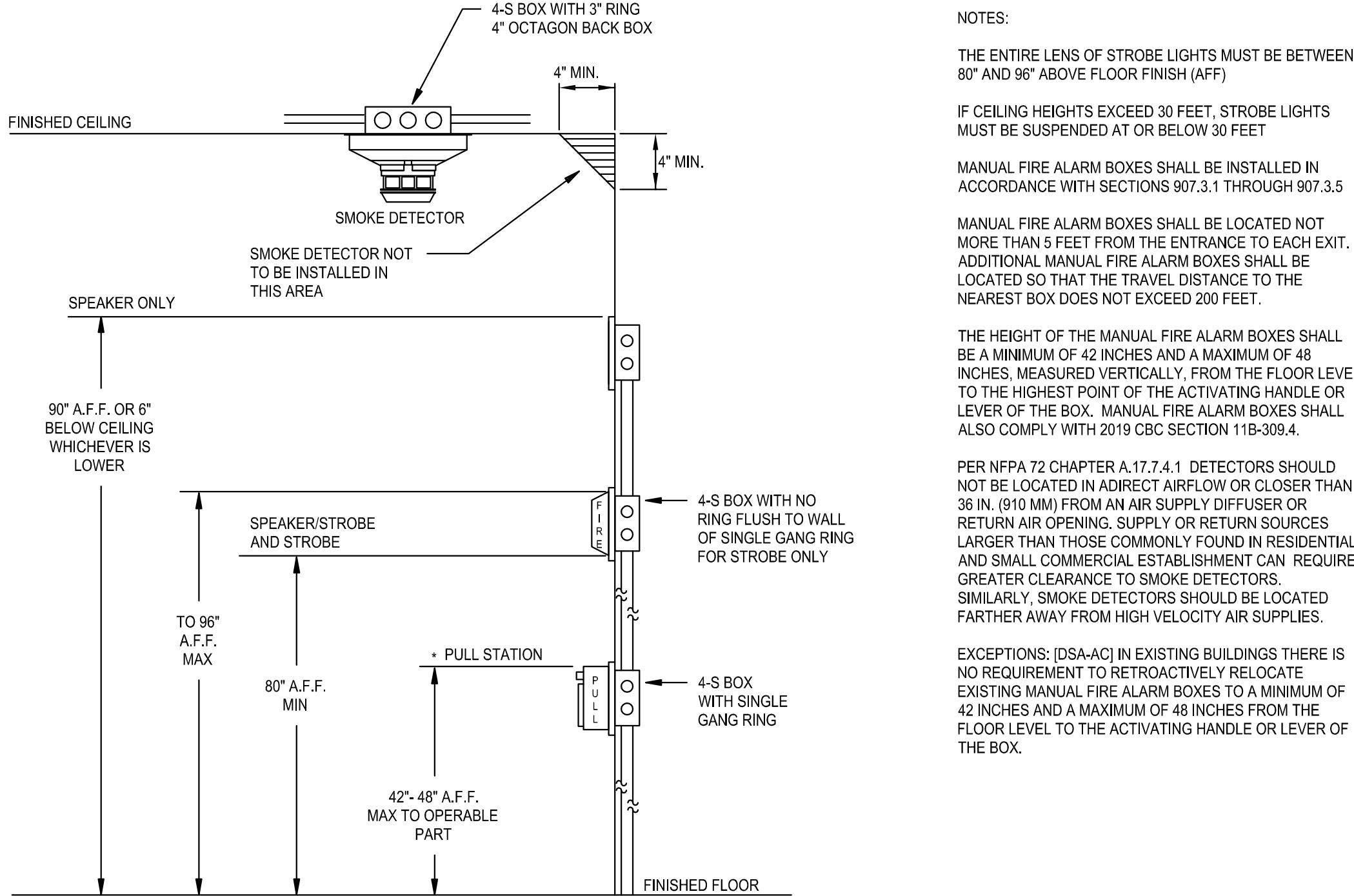
1	CONDENSATE TO TAILPIECE DETAIL 12" = 1'-0"
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PRK																							
ARCHITECT	PRK Architects, Inc. <small>PRK.com</small> COSTA MESA 600 Anton Boulevard, Suite 1375 Costa Mesa, CA 92626 P 949-548-5000																						
CONSULTANT	LEAF ENGINEERS 8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909 leafengineers.com																						
<div style="display: flex; justify-content: space-between;"><div style="width: 60%;"><h2 style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 24pt; font-weight: bold;">WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION</h2></div><div style="width: 35%; border-left: 1px solid black; padding-left: 10px;"><p>PROJECT ADDRESS: 14142 Hoover St Westminster, CA 92683</p><p>DSA SUBMITTAL</p></div></div>																							
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<p>Consultant</p> <div style="border: 1px solid black; border-radius: 50%; width: 150px; height: 150px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"><div style="text-align: center;"><p>REG. PROFESSIONAL ENGINEER NO. 103816 EXP. 09-30-2024 DAVID WANG STATE OF CALIFORNIA</p></div></div>																							
<p>Architect</p> <div style="border: 1px solid black; border-radius: 50%; width: 200px; height: 200px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"><div style="width: 100px; height: 100px; border: 1px solid black; border-radius: 50%;"></div></div>																							
<div style="display: flex; justify-content: space-between;"><div>CLIENT WESTMINSTER SCHOOL DISTRICT</div><div>PROJECT NUMBER 220309</div></div> <div style="display: flex; justify-content: space-between;"><div>DATE 12-29-2022</div><div>REVISIONS</div></div> <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 10%;">No.</th><th style="width: 70%;">Description</th><th style="width: 20%;">Date</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table> <div style="text-align: center; margin-top: 10px;">DSA SUBMITTAL</div>			No.	Description	Date																		
No.	Description	Date																					
<h2 style="font-size: 24pt; font-weight: bold;">PLUMBING DETAILS</h2>																							

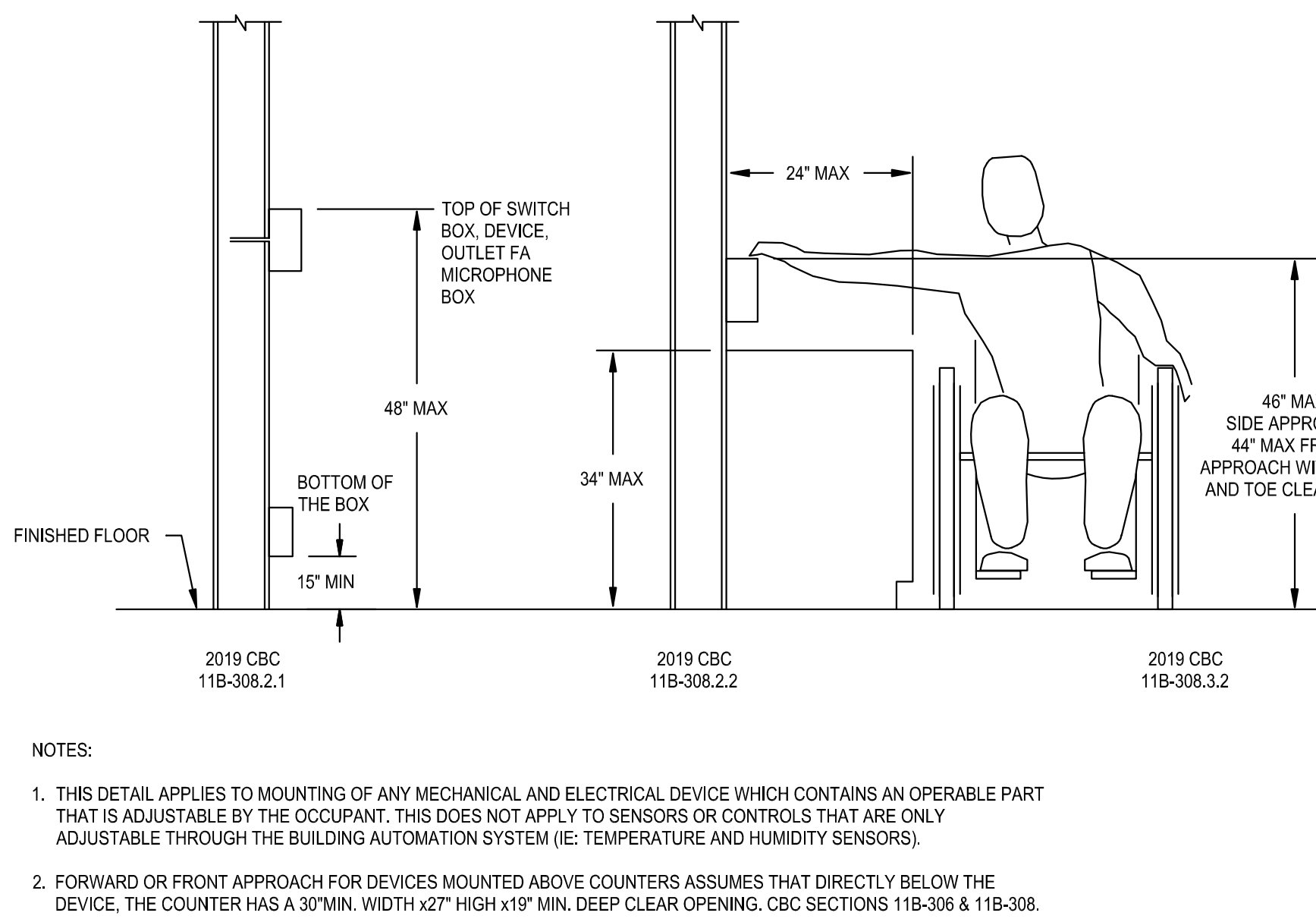
DEVICE SCHEDULE					
SYM.	MODEL	MANUFACTURER	DESCRIPTION	MOUNTING	CSFM #
A68R	IFP-2100ECS	FARENHYT	EMERGENCY VOICE/ALARM COMMUNICATION PANEL ECS-INT50W, INTERNAL 50 WATT AMPLIFIER 6815, SLC EXPANDER	WALL MOUNTED	7165-0559-0505 7300-05583175
	HWF2V-COM	HONEYWELL/ADAMCO	CELLULAR FIRE ALARM COMMUNICATOR	WALL MOUNTED	7300-1645-0511
	SSU00672	SAE	FIRE DOCUMENT BOX-RED	WALL MOUNT @ FACP	UL LISTED
A69P	ECS-50W	FARENHYT	SINGLE CHANNEL 50W, 25/70V AMPLIFIER	WALL MOUNTED	7165-0559-0505
A69S	RPS-1000	FARENHYT	INTELLIGENT 6 AMP NAC POWER SUPPLY	WALL MOUNTED	7165-0559-0505
A70G	SSU00636	SAE	FIRE ALARM TERMINAL CABINET	WALL MOUNTED	UL & NEMA LISTED
A71R	IDP-RELAY	FARENHYT	ADDRESSABLE RELAY MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-0559-0155
A72P	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
A73A / A73C	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
A74	IDP-PULL-DA	FARENHYT	ADDRESSABLE DOUBLE ACTION MANUAL PULL STATION	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7150-0559-0157
A75	SRL	SYSTEM SENSOR	MULTI CANDELA STROBE, CEILING MOUNT-RED	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7125-1653-0504
A76	SPSRL	SYSTEM SENSOR	MULTI CANDELA TEMPORAL SPEAKER STROBE, CEILING MOUNT-RED	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7320-1653-0505
A77	SPRK	SYSTEM SENSOR	WEATHER PROOF SPEAKER, WALL MOUNT-RED	WBB BACK BOX IS INCLUDED	7320-1653-0201
A78	TBD	TBD	ELECTRICAL JUNCTION BOX (SIZES WILL VARY)	TBD	UL LISTED
A79	RA-2000	FARENHYT	FIRE ALARM REMOTE ANNUNCIATOR	4-11/16" SQUARE BOX	7165-0559-0505
****	PS-12260V6S	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

NOTES:
1. INSTALL TWO 12VDC, 26AH BATTERIES IN EVAC ENCLOSURE.
2. INSTALL TWO 12VDC, 7AH BATTERIES IN EACH NAC POWER SUPPLY & AMPLIFIER ENCLOSURES.
3. INSTALL ONE 12VDC, 7AH BATTERY IN COMMUNICATOR ENCLOSURE.

ELEVATION MOUNTING DETAIL



MOUNTING OVER OBSTRUCTION DETAIL



LEGENDS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A OR AMP	AMPERES	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NO.	NUMBER
AIC	AMPERES INTERRUPTING CAPACITY	PH. OR D	PHASE
ARCH.	ARCHITECT, ARCHITECTURAL	PNL	PANEL
AWG	AMERICAN WIRE GAUGE	PWR	POWER
C	CONDUIT	REC/RECEPT	RECEPTACLE
CKT	CIRCUIT	REQ'D	REQUIRED
CL	CEILING MOUNTED DEVICE	RM	ROOM
C.O.	CONDUIT ONLY WITH PULL WIRE	RF	SQUARE FEET
CU	COPPER	SHT	SHEET
DWG	DRAWING	SP	SINGLE POLE
ER	EXISTING DEVICE TO BE REMOVED	SPECS	SPECIFICATIONS
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EQUIP	EQUIPMENT	TYP	TYPICAL
EXIST / (E)	EXISTING	UG	UNDERGROUND
FIN.	FINISH	U.O.N.	UNLESS OTHERWISE NOTED
FLR	FLOOR	V	VOLTS
FT	FEET	V-A	VOLT-AMPERES
GF	GROUND FAULT INTERRUPTER	W	WATTS
GND	GROUND	WTH	WITH
LTG.	LIGHTING	W/O	WITHOUT
MTG	MOUNTING	WP	WEATHERPROOF
N	NEW	CEC	CALIFORNIA ELECTRICAL CODE
FS	FLOW SWITCH		
JB	JUNCTION BOX		
PV	POST INDICATOR VALVE		
TS	TEMPER SWITCH		
WP	PULL BOX (WEATHERPROOF)		
RD	RISER UP AND DOWN		

SEQUENCE OF OPERATIONS

DEVICE	MANUAL PULL STATION	AREA SMOKE DETECTOR	HEAT DETECTOR	120VAC POWER FAILURE	SHORT CIRCUIT	GROUND FAULT	BATTERY FAILURE
ACTION							
SOUND ALARM AT "FACP"	YES	YES	YES	NO	NO	NO	NO
SOUND TROUBLE BUZZER AT "FACP"	NO	NO	NO	YES	YES	YES	YES
ANNUNCIATE AT "FACP" AND THE REMOTE ANNUNCIATOR (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES	YES
ACTIVATE AUDIBLE / VISUAL ALARM SIGNAL THROUGHOUT BUILDING	YES	YES	YES	NO	NO	NO	NO
ACTIVATE SIGNAL FOR OFF-SITE MONITORING	YES	YES	YES	YES	YES	YES	YES
MUTE AUTONOMOUS LOCAL SOUND SYSTEM	YES	YES	YES	NO	NO	NO	NO

WIRE SCHEDULE

WIRE DESIGNATION	WIRE IN CONDUIT	WIRE IN CONDUIT UNDERGROUND/WET LOC.	UNDERGROUND/WET WIRE DESIGNATION
INIT. LOOP Z	2 CONDUCTOR #16 FPL TWISTED/ SHIELDED WEST PENN #8091	2 CONDUCTOR #16 FPL SHIELDED WEST PENN #80-294	INIT. LOOP Z
SBUS B	4 CONDUCTOR #16 TWISTED SHIELDED PAIR CABLE	4 CONDUCTOR #16 TWISTED SHIELDED PAIR CABLE	SBUS B
VBUS C	2 CONDUCTOR #16 TWISTED SHIELDED PAIR CABLE	2 CONDUCTOR #16 TWISTED SHIELDED PAIR CABLE	VBUS C
SPEAKER CKT. S	2 CONDUCTOR #14 THIN/TWNN STRANDED	2 CONDUCTOR #14 THIN/TWNN STRANDED	SPEAKER CKT. S
VISUAL CKT. V	2 CONDUCTOR #12 THIN/TWNN STRANDED	2 CONDUCTOR #12 THIN/TWNN STRANDED	VISUAL CKT. V
POWER CKT. P	2 CONDUCTOR #12 THIN/TWNN STRANDED	2 CONDUCTOR #12 THIN/TWNN STRANDED	POWER CKT. P

NOTE:
ALL WIRE MODEL NUMBERS ARE WEST PENN. EQUIVALENT BY OTHER MANUFACTURER IS ACCEPTABLE.

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 MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2018 IAPMO UNIFORM PLUMBING 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

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 EQUIPMENT;
2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2016 EDITION
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES; 2003 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS; 1999 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED; 2002 EDITION (R2010)
ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS; 2017 EDITION

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

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

FIRE WATCH NOTE

A FIRE WATCH SHALL BE ESTABLISHED AND THE FIRE DEPARTMENT & FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS RENDERED OUT OF SERVICE. A FIRE WATCH SHALL BE STAGED WHENEVER THE BUILDING IS OCCUPIED (PARTIAL OR WHOLE) PER DSA IR-F-2 AND CFC 901.7.

SCOPE OF WORK

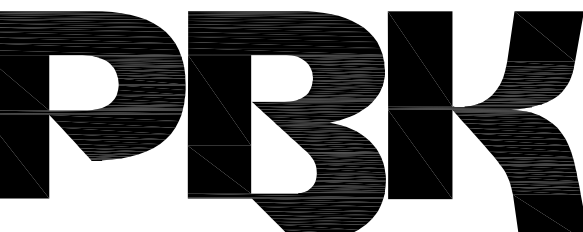
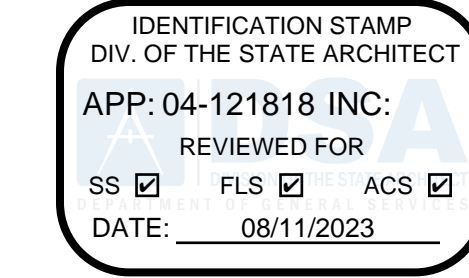
PROVIDE COMPLETE FULL AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITHIN THE AREA OF WORK. PROVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN IN EQUIPMENT LEGEND, FLOOR PLANS, AND SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET. USE NEW FIRE ALARM CONTROL PANEL TO CONNECT NEW FIRE ALARM SYSTEM DEVICES SHOWN PER DRAWING AND SPECIFICATION DOCUMENT. UPON COMPLETION, A COMPLETE FIRE TEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY. IF FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.

DRAWING INDEX

SHEET	DESCRIPTION
FA0.0	FIRE ALARM SYMBOLS, LEGENDS AND NOTES
FA1.0	FIRE ALARM SITE PLAN
FA2.0	FIRE ALARM FLOOR PLANS
FA2.3	FIRE ALARM FLOOR PLANS
FA5.1	FIRE ALARM SCHEDULES
FA6.1	FIRE ALARM DETAILS

GENERAL NOTES

1. APPLICABLE STANDARD 2016, NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FLOR PLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL BE NO CLOSER THAN 1' FROM THE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER, IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT. SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS.
19. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
20. FIRE ALARM PANEL AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
21. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT TO BE LABELED AT FIRE PANEL EXTENDERS.
22. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 7.8.2.
23. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
24. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE. INSTALLATION IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-306.
25. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
26. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
27. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
28. ALL CARBON MONOXIDE SIGNALS SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 720, 5.8.1.1.
29. ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
30. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTION, SERVICING, TROUBLESHOOTING, ETC.
31. DO NOT DEViate FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARS, ENGINEERING, ETC., THAT ARE A RESULT OF COMMONLY RUN DEVICES SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
32. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES, AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFARE SHALL BE BY MECHANICAL CONTRACTOR.
34. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
35. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES, AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
36. SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED PER THE MANUFACTURERS INSTRUCTIONS.
37. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICES CIRCUITS.
38. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
39. POINT, COMMON ANNUNCIATION, AND T-TAPPING ARE PROHIBITED.
40. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
41. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
42. ALL FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE SIMILAR TO THE SYSTEM SENSOR MODEL "WFD SERIES" ONLY.
43. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
44. FIRE ALARM SYSTEM SHALL BE UL LISTED (ULUS).
45. CBC 907.6.5.3 (SPM AMENDMENT) REQUIRES FIRE ALARM TO... TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISORY STATION SHALL BE LISTED AS EITHER UL/FX (CENTRAL STATION) OR ULUS (REMOTE AND PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FM 3011.
46. SUBSTITUTION OF SYSTEM COMPONENTS OR MANUFACTURER WILL REQUIRE THE CONTRACTOR TO SEPARATELY OBTAIN APPROVAL WITH THE DSA AT CONTRACTORS EXPENSE AND SHALL MEET ALL REQUIREMENTS OF THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE CALIFORNIA STATE FIRE MARSHAL.
47. FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SUPERVISING STATION.
48. COORDINATE WITH THE ENGINEER FOR USE OF EXISTING CONDUIT ON A CASE BY CASE BASIS.
49. PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST THE INTERCOM SYSTEM TO ENSURE FULL FUNCTIONALITY. GENERATE A LIST OF FAULTY EQUIPMENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. PROVIDE PRICING FOR ANY REQUIRED EQUIPMENT REPAIRS OR REPLACEMENT.
50. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM SYSTEM FROM THE EXISTING INTERCOM SYSTEM. ENSURE THE INTERCOM SYSTEM IS COMPLETELY FUNCTIONAL AFTER DISCONNECTION.
51. CONTRACTOR SHALL CLEARLY MARK THE ABANDON SECTION OF PUBLIC ADDRESS SYSTEM.
52. PROVIDE A FIRE ALARM DOCUMENTATION CABINET PER NFPA 72.7.7.
53. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33.
54. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (CAG 4-3.17).
55. CHANGES TO THE DIVISION OF THE STATE ARCHITECT APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON CAC 4-338(C).
56. PROJECT INSPECTOR TO APPROVE SYSTEM VOICE-EVACUATION INTELLIGIBILITY DURING TESTING PHASE.
57. CONTRACTOR SHALL PROVIDE ALL CABLES, RELAYS, MOUNTING HARDWARE AND ANY OTHER DEVICES (FIRE ALARM SYSTEM DEVICES) TO PROVIDE A FULLY FUNCTIONING FIRE ALARM OVERIDE SYSTEM. WHEN FIRE ALARM CEASES, EACH LOCAL SOUND SYSTEM SHALL AUTOMATICALLY REVERT TO NORMAL OPERATION. FIRE ALARM MODULES AND CABLES BY FIRE ALARM CONTRACTOR.
58. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL, "HOT" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
59. NOTIFICATION APPLIANCES USED FOR SIGNALING OTHER THAN FIRE SHALL NOT HAVE THE WORD "FIRE" OR ANY FIRE SYMBOL IN ANY FORM (I.E., STAMPED, IMPRINTED, ETC.) ON THE APPLIANCE VISIBLE TO THE PUBLIC. NOTIFICATION APPLIANCES USED FOR FIRE SIGNALING SHALL BE PERMITTED TO HAVE FIRE MARKINGS ONLY ON THOSE VISIBLE ELEMENTS USED FOR FIRE SIGNALING. PER NFPA 72, 16.3.3.2/NFPA 720, 6.3.3.2/IR 92, 5.4.4 & 5.4.5.
60. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UL/FX (CENTRAL STATION) OR ULUS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 907.6.2.
61. THE NEW PROJECT SUBMITTAL TO INCLUDE DIRECTION THAT FIRE ALARM SYSTEM RECORD OF COMPLETION AND FIRE ALARM SYSTEM RECORD OF INSPECTION AND TESTING FORM THESE TWO DOCUMENTS FROM NFPA 72 ARE TO BE COMPLETED AND SUBMITTED PRIOR TO CLOSE OUT OF THE PROJECT. A COPY OF COMPLETED AND SIGNED FORM SHALL BE GIVEN TO THE ARCHITECT OR ENGINEER OF RECORD. THE PROJECT INSPECTOR, THE OWNER (SCHOOL DISTRICT) AND LOCAL FIRE AUTHORITY.
62. 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 STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.



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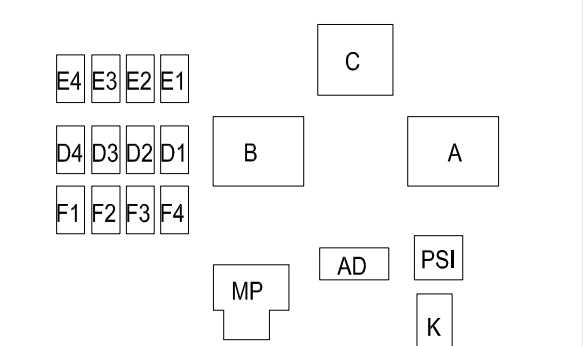


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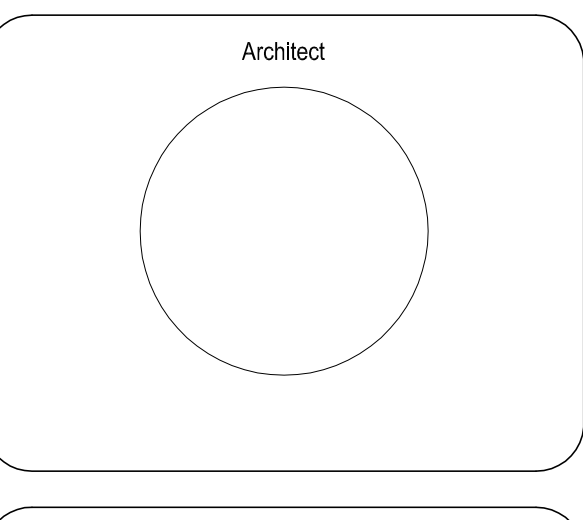
WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683

DSA SUBMITTAL
DSA APPL NO.: 04-121818 DSA FILE NO.: 30-43



KEY PLAN
NORTH: PLAN

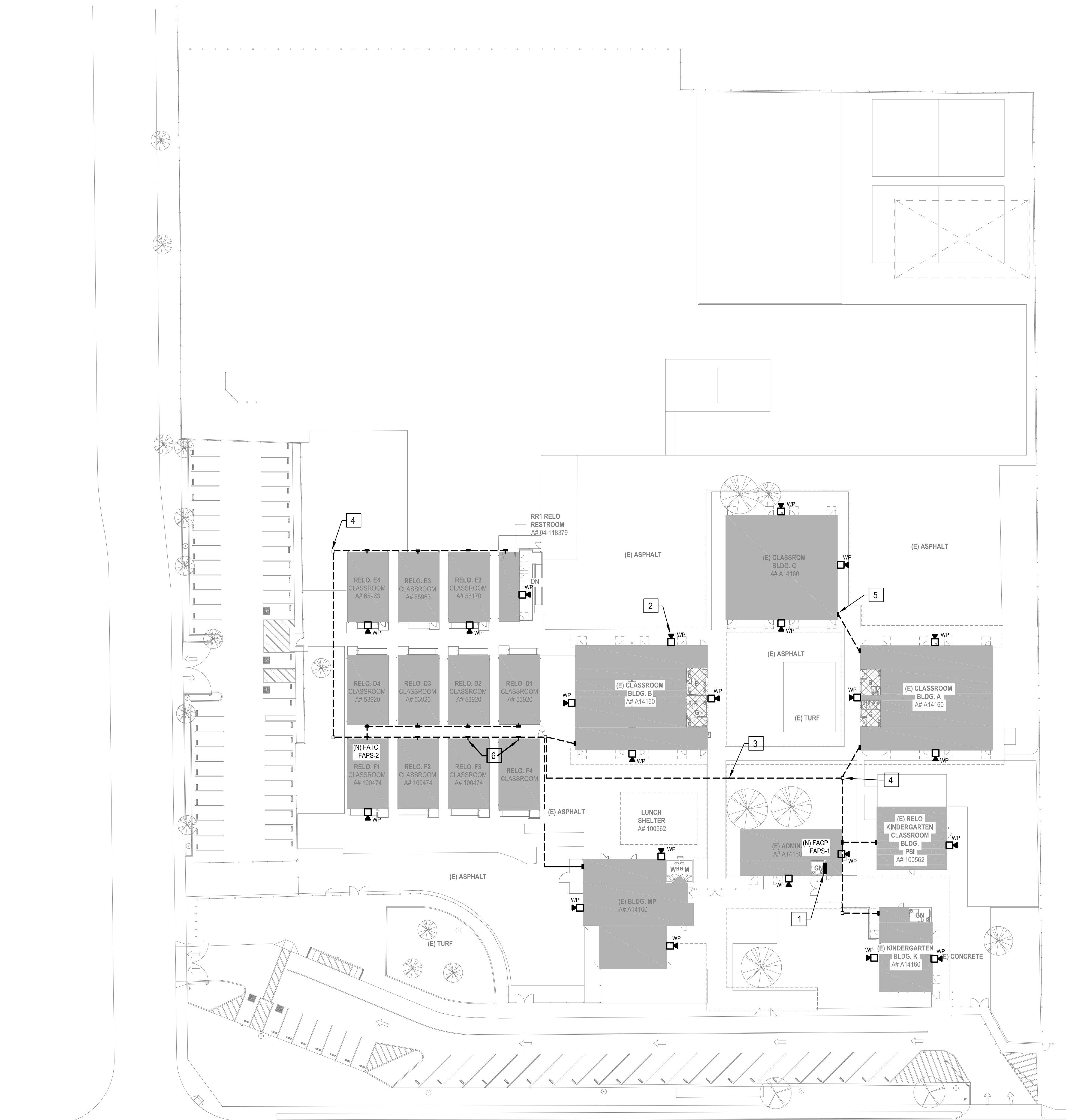


CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE
12-29-2022 PROJECT NUMBER
222309

REVISIONS	Description	Date

DSA SUBMITTAL

FIRE ALARM SYMBOLS, LEGENDS AND NOTES



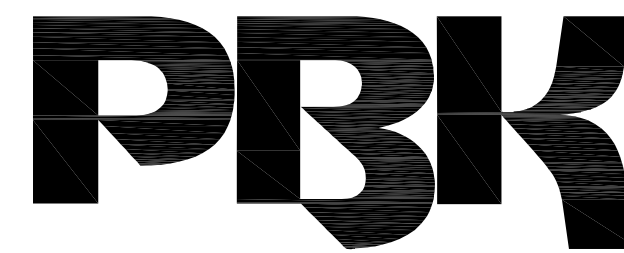
GENERAL NOTES

1. ALL SPEAKER TAP SETTING SHALL BE SET AT 1/2 WATT FOR INTERIOR SPEAKER AND 2 WATT FOR EXTERIOR SPEAKERS UNLESS NOTED OTHERWISE (U.N.O.)
2. RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.

KEY NOTES

- 1 NEW VICE EVAC FIRE ALARM CONTROL PANEL AS SHOWN. FIELD VERIFY THE EXACT LOCATION.
- 2 PROVIDE WEATHERPROOF WALL MOUNTED SPEAKER AS SHOWN (TYPICAL). REFERENCE DETAIL 8 SHEET FAS.1.
- 3 PROVIDE 1/2" (2") UNDERGROUND CONDUIT (PVC, SCHEDULE 40, 2" BELOW GRADE) ONE CONDUIT FOR SPARE AND FIRE ALARM CABLE AS INDICATED. BACK FILL TO MATCH EXISTING SURFACES. RUN CONDUIT IN DIRT/PLANTER AREA AS MUCH AS POSSIBLE.
- 4 PROVIDE CONCRETE UNDERGROUND PULL BOXES 11" X 17" X 18" DEEP ON A 6" DEEP GRAVEL BASE (TYP).
- 5 PROVIDE NEMA 3R WEATHERPROOF PULLBOX 15"X18"X6" FOR FIRE-ALARM (TYP). REFERENCE DETAIL 7 SHEET FAS.1.
- 6 SPARE CIRCUITS FOR FUTURE USE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121818 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/11/2023



ARCHITECT **PBK Architects, Inc.**
COSTA MESA **PBK.com**
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CONSULTANT	LEAF Engineers
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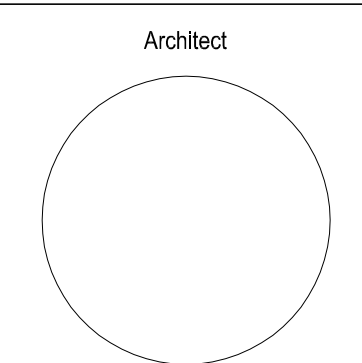
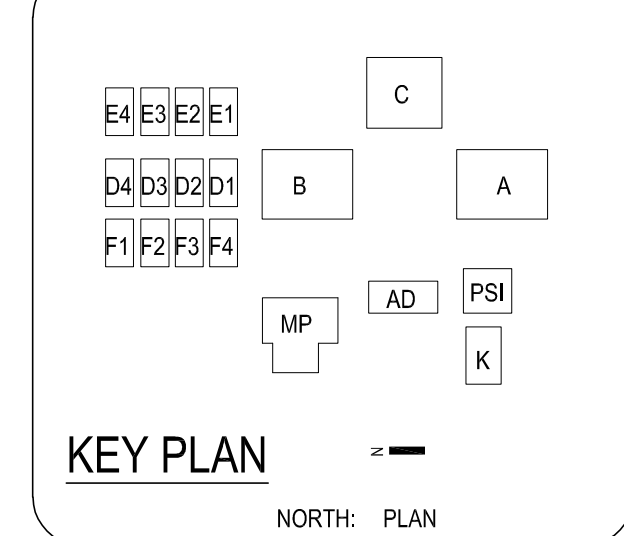


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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

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DSA SUBMITTAL



CLIENT WESTMINSTER SCHOOL DISTRICT	
DATE 12-29-2022	PROJECT NUMBER 220309

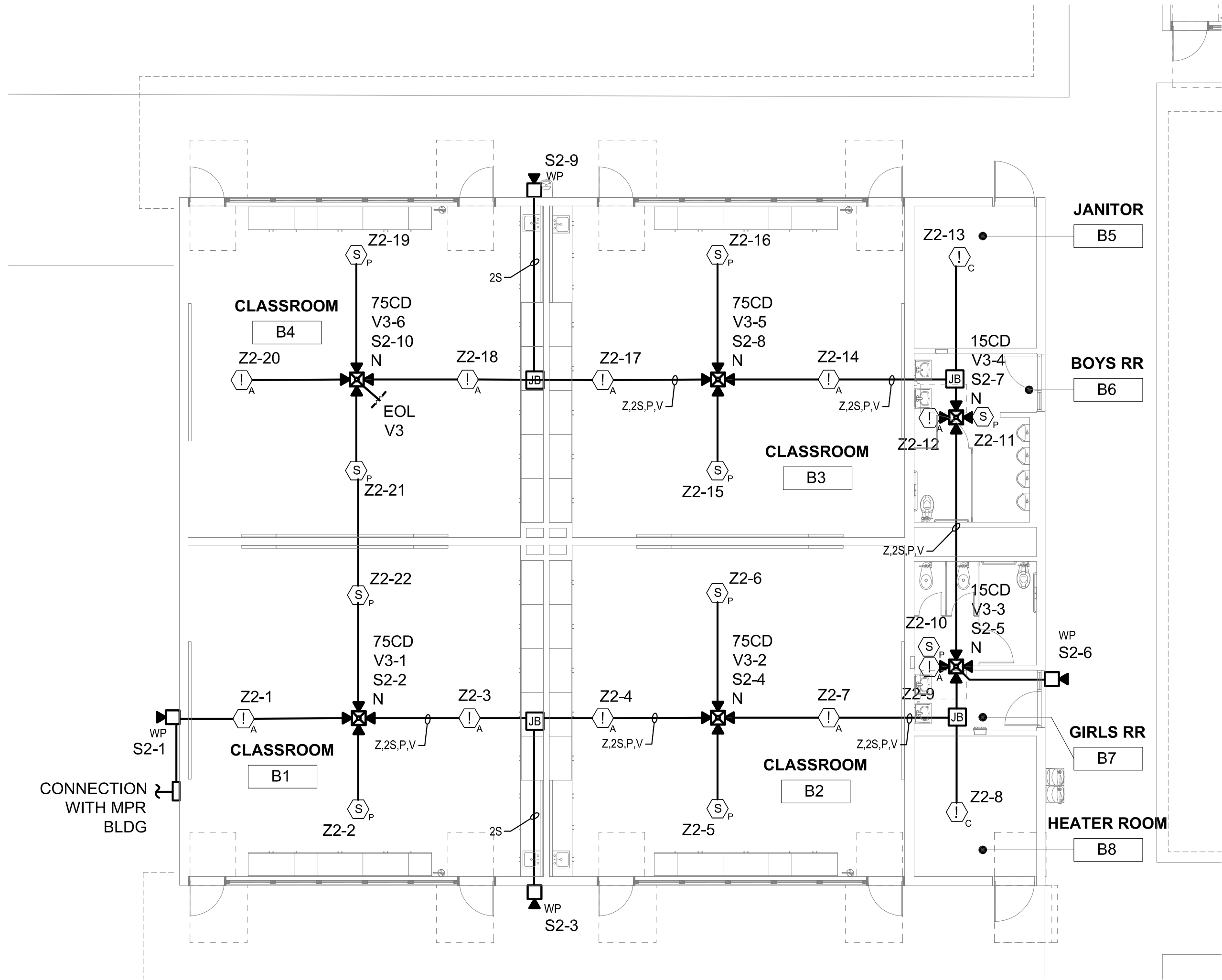
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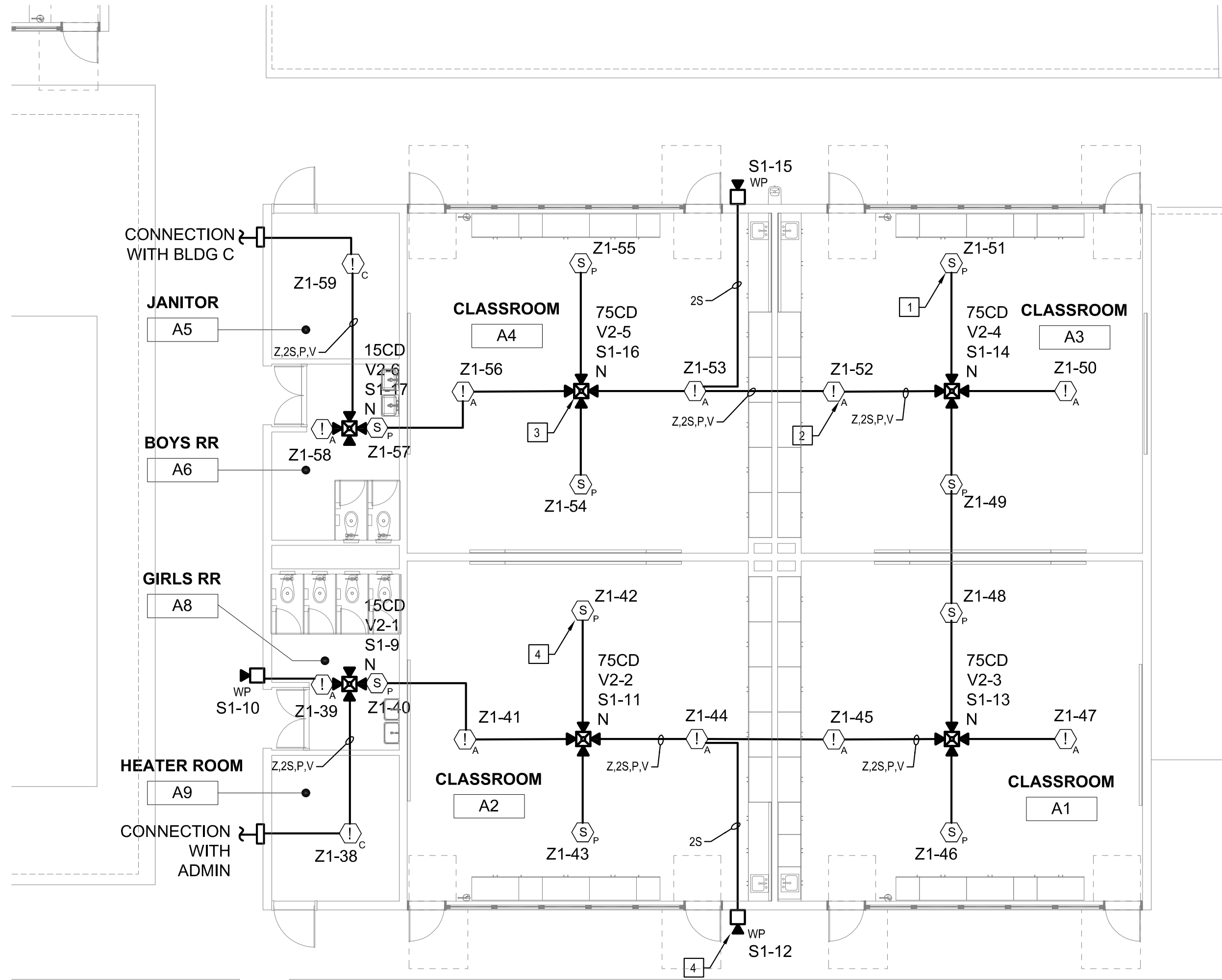
FIRE ALARM OVERALL SITE PLAN

FA1.0

0" 1"

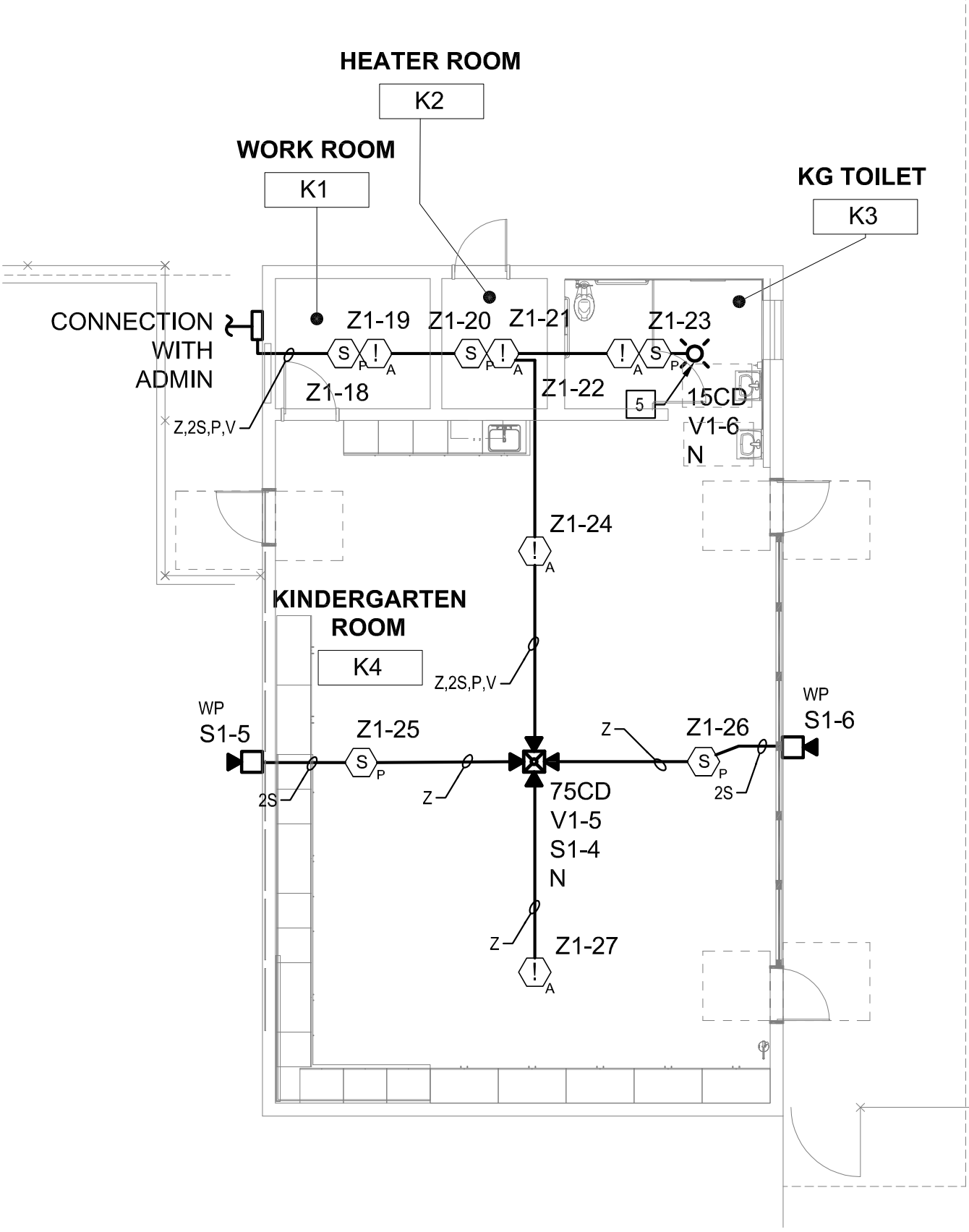


2 BLDG B - FLOOR PLAN
1/8" = 1'-0"



1 BLDG A - FLOOR PLAN
1/8" = 1'-0"

3 BLDG K - FLOOR PLAN
1/8" = 1'-0"

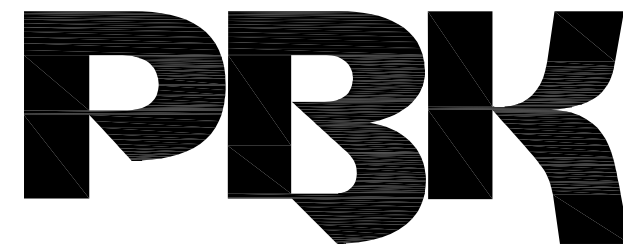
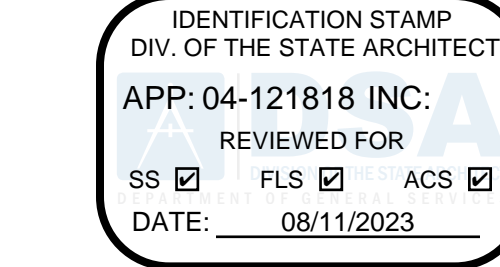


GENERAL NOTES

- ALL SPEAKER TAP SETTING SHALL BE SET AT 1/2 WATT FOR INTERIOR SPEAKER AND 2 WATT FOR EXTERIOR SPEAKERS UNLESS NOTED OTHERWISE (U.N.O.)
- PROVIDE 24 VDC POWER FROM FACP TO ALL CO DETECTOR BASES.
- RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.
- SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER CBC 907.2.11.8.
- DEMOLISH AND REMOVE ALL THE EXISTING FIRE ALARM DEVICES WHETHER SHOWN ON THE PLAN OR NOT AND REPLACE WITH BLANK COVER PLATES IF NECESSARY. DISCONNECT AND REMOVE ALL THE EXISTING CABLES BACK TO CONTROL PANEL.
- EXISTING FIRE ALARM SYSTEM SHALL BE OPERATIONAL UNTIL NEW SYSTEMS ARE FULLY FUNCTIONAL.
- FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
- NOTIFICATION APPLIANCES USED FOR SIGNALING OTHER THAN FIRE SHALL NOT HAVE THE WORD "FIRE" OR ANY FIRE SYMBOL IN ANY FORM (I.E. STAMPED, IMPRINTED, ETC.) ON THE APPLIANCE VISIBLE TO THE PUBLIC. NOTIFICATION APPLIANCES WITH MULTIPLE VISIBLE ELEMENTS SHALL BE PERMITTED TO HAVE FIRE MARKING ONLY ON THOSE VISIBLE ELEMENTS USED FOR FIRE SIGNALING. PER NFPA 72, 18.3.3.2/NFPA 720, 6.3.3.2/IR 9-2, 5.4.4 & 5.4.5.
- ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.

KEY NOTES

- 1 PROVIDE FIRE ALARM ADDRESSABLE SMOKE DETECTOR AS SHOWN (TYP).
- 2 PROVIDE FIRE ALARM ADDRESSABLE ATTIC/CEILING MOUNTED HEAT DETECTOR AS SHOWN (TYP).
- 3 PROVIDE FIRE ALARM CEILING MOUNTED SPEAKER STROBE AS SHOWN (TYP).
- 4 PROVIDE FIRE ALARM WEATHERPROOF SPEAKER AS SHOWN (TYP).
- 5 PROVIDE FIRE ALARM CEILING MOUNTED STROBE AS SHOWN (TYP).



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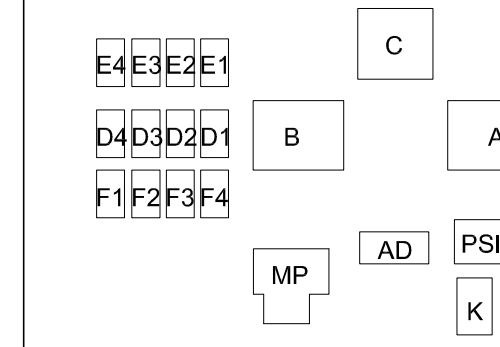
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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

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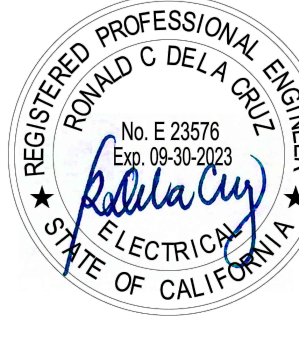
DSA SUBMITTAL

DSA APPL. NO.: 04-121818 DSA FILE NO.: 30-43

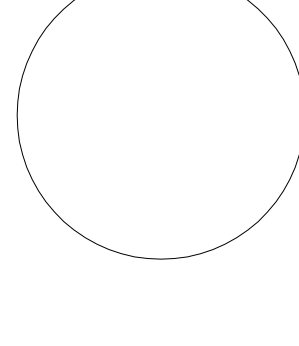


KEY PLAN
NORTH: PLAN

Consultant



Architect



CLIENT

WESTMINSTER SCHOOL DISTRICT
DATE 12-29-2022 PROJECT NUMBER 220309

REVISIONS	Description	Date

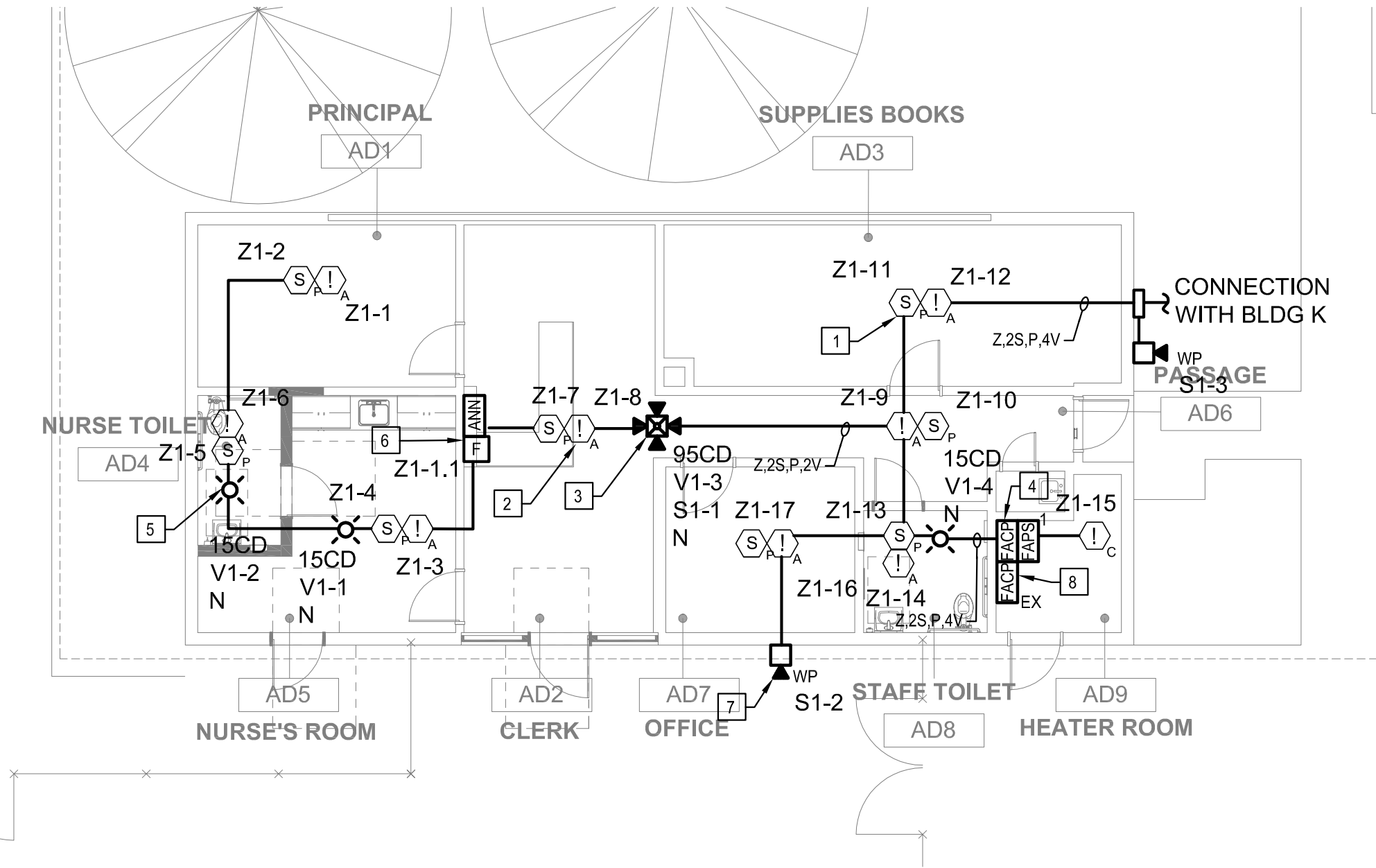
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FIRE ALARM FLOOR PLANS

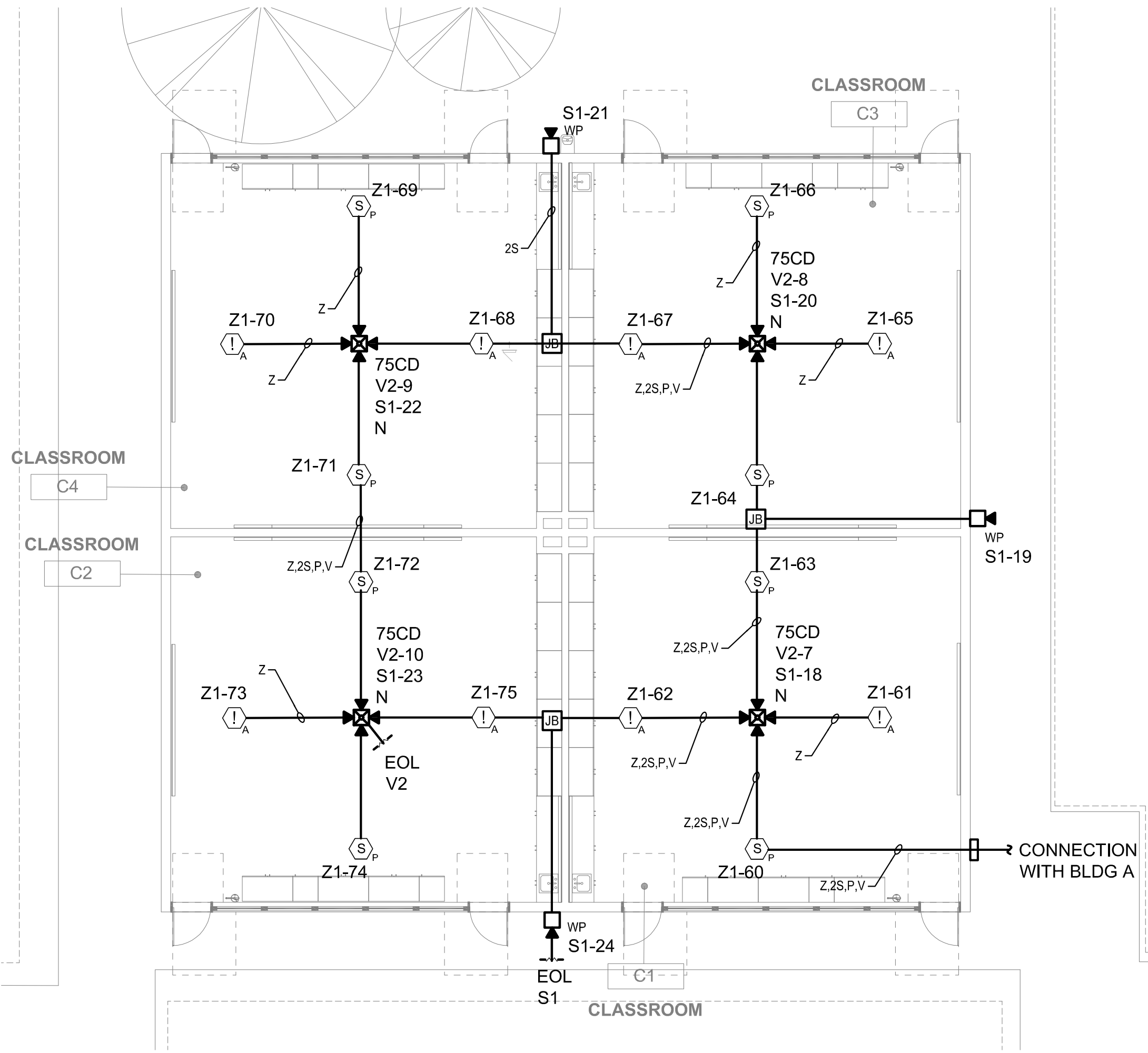
FA2.1



2 BLDG ADMIN - FLOOR PLAN
1/8" = 1'-0"



1 BLDG C - FLOOR PLAN
1/8" = 1'-0"

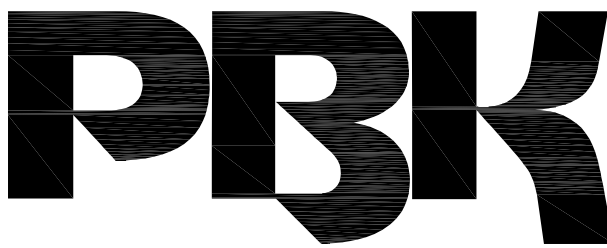
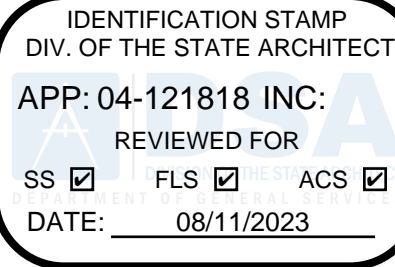


GENERAL NOTES

- ALL SPEAKER TAP SETTING SHALL BE SET AT 1/2 WATT FOR INTERIOR SPEAKER AND 2 WATT FOR EXTERIOR SPEAKERS UNLESS NOTED OTHERWISE (U.N.O.)
- PROVIDE 24 VDC POWER FROM FACP TO ALL CO DETECTOR BASES.
- RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.
- SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER CBC 907.2.11.8.
- DEMOLISH AND REMOVE ALL THE EXISTING FIRE ALARM DEVICES WHETHER SHOWN ON THE PLAN OR NOT AND REPLACE WITH BLANK COVER PLATES IF NECESSARY. DISCONNECT AND REMOVE ALL THE EXISTING CABLES BACK TO CONTROL PANEL.
- EXISTING FACP WILL BE REMOVED AND REPLACED WITH NEW FACP. EXISTING FIRE ALARM SYSTEM SHALL BE OPERATIONAL UNTIL NEW SYSTEMS ARE FULLY FUNCTIONAL.
- FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
- ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.

KEY NOTES

- PROVIDE FIRE ALARM ADDRESSABLE SMOKE DETECTOR AS SHOWN (TYP).
- PROVIDE FIRE ALARM ADDRESSABLE ATTIC/CEILING MOUNTED HEAT DETECTOR AS SHOWN (TYP).
- PROVIDE FIRE ALARM CEILING MOUNTED SPEAKER STROBE AS SHOWN (TYP).
- NEW VOICE EVC FIRE ALARM CONTROL PANEL AND FIRE ALARM POWER SUPPLY .
- PROVIDE FIRE ALARM CEILING MOUNTED STROBE AS SHOWN.
- PROVIDE FIRE ALARM MANUAL PULL STATION RIGHT NEXT TO THE REMOTE ANNUNCIATOR PANEL.
- PROVIDE FIRE ALARM WEATHERPROOF SPEAKER AS SHOWN (TYP).
- LOCATION OF EXISTING FIRE ALARM CONTROL PANEL (A#04-100713). EXISTING FACP WILL BE REMOVED AND REPLACED WITH NEW FACP. EXISTING FIRE ALARM SYSTEM SHALL BE OPERATIONAL UNTIL NEW SYSTEMS ARE FULLY FUNCTIONAL.

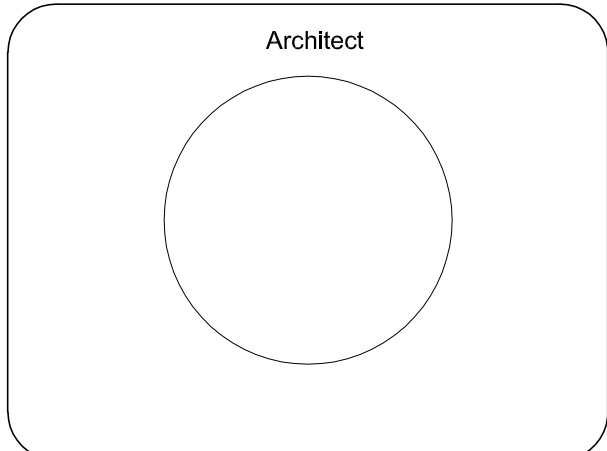
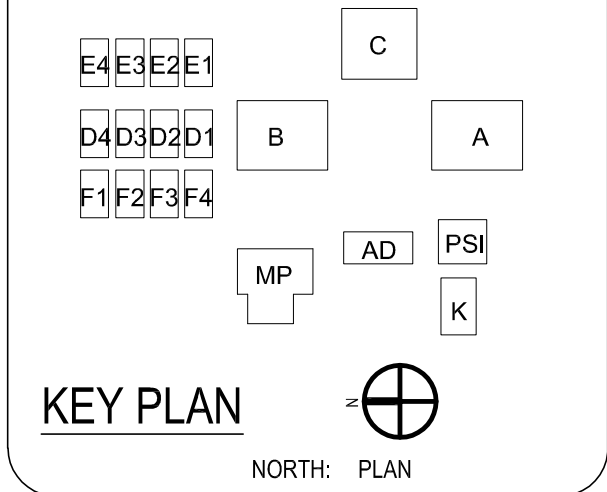


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WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
14142 Hoover St
Westminster, CA 92683
DSA SUBMITTAL
DSA APPL NO.: 04-121818 DSA FILE NO.: 30-43



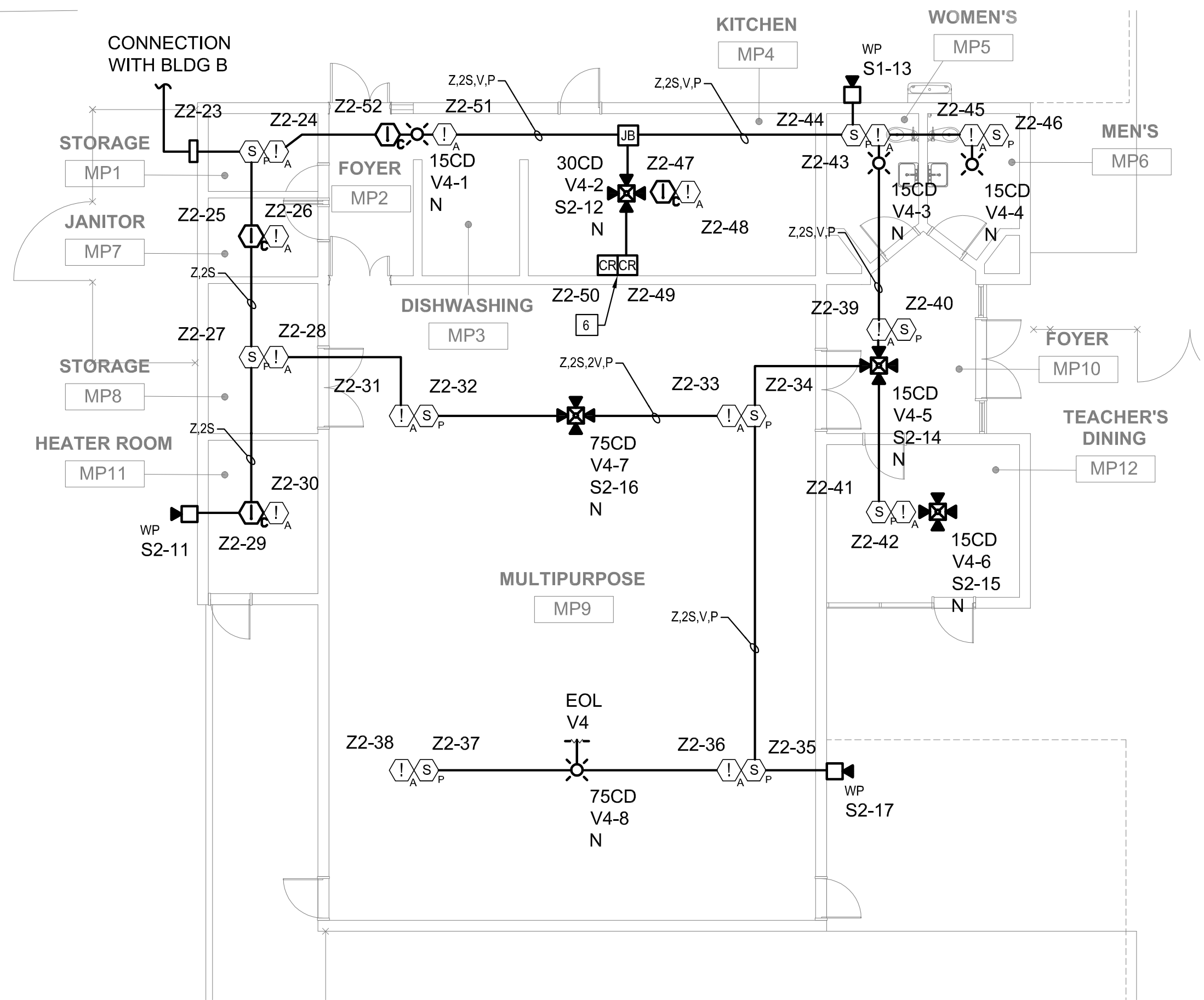
CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
12-29-2022	220309	
REVISIONS		
Description	Date	

DSA SUBMITTAL

FIRE ALARM FLOOR PLANS

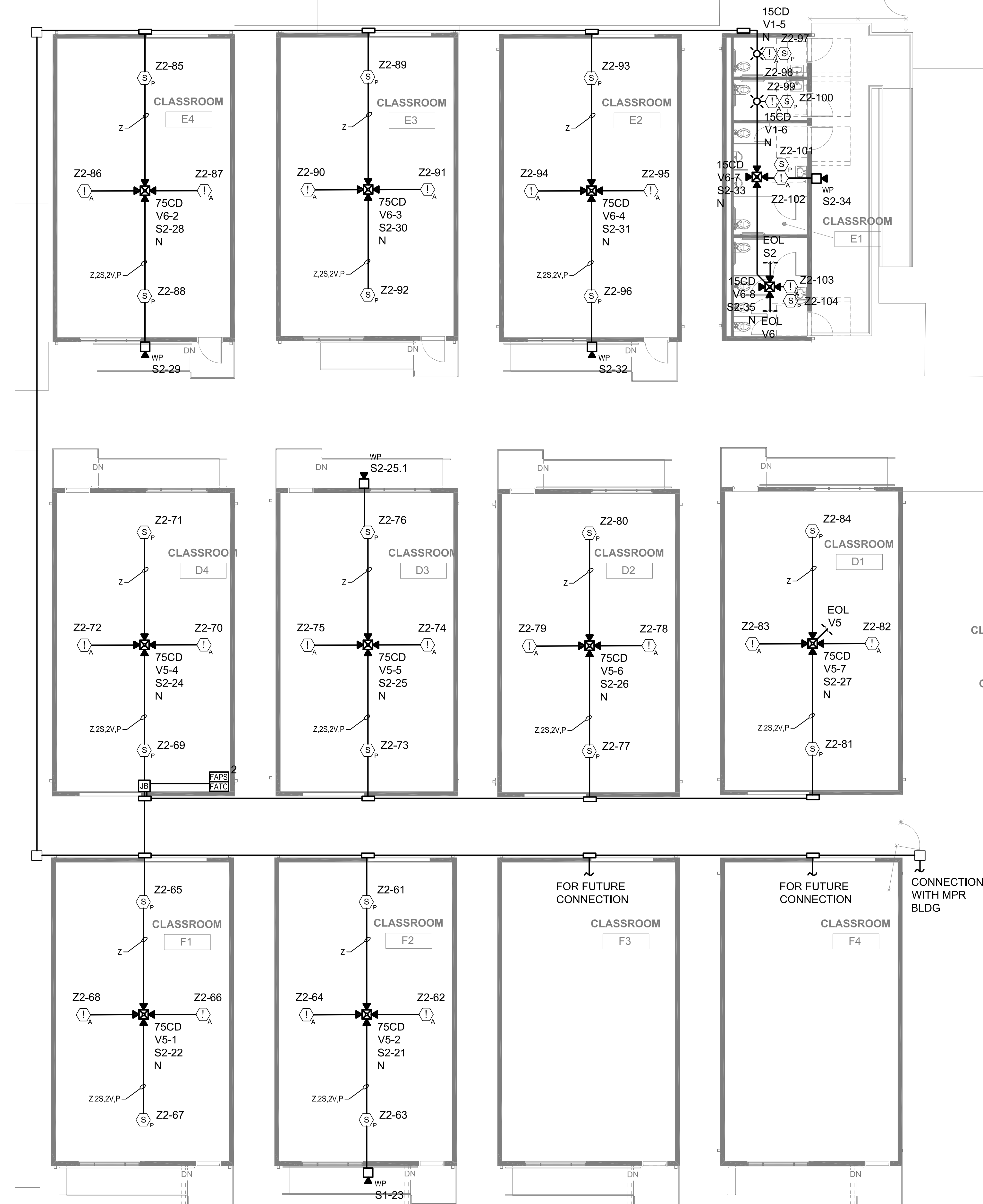
3 RELO-KINDERGARTEN - FLOOR PLAN

1/8" = 1'-0"



1 RELO-BUILDINGS - FLOOR PLAN

1/8" = 1'-0"

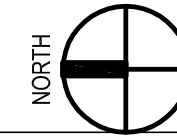


CLAS:

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GENERAL NOTES

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- ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.

KEY NOTES

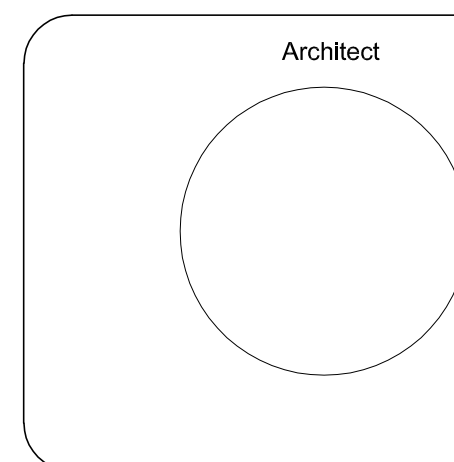
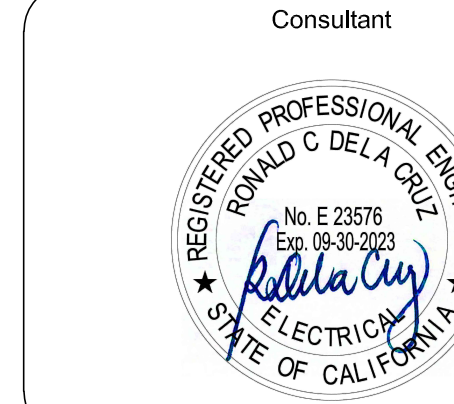
- PROVIDE FIRE ALARM ADDRESSABLE SMOKE DETECTOR AS SHOWN (TYP).
- PROVIDE FIRE ALARM ADDRESSABLE ATTIC/CEILING MOUNTED HEAT DETECTOR AS SHOWN (TYP).
- PROVIDE FIRE ALARM CEILING MOUNTED SPEAKER STROBE AS SHOWN (TYP).
- PROVIDE FIRE ALARM WEATHERPROOF SPEAKER AS SHOWN (TYP).
- PROVIDE FIRE ALARM CEILING MOUNTED STROBE AS SHOWN (TYP).
- PROVIDE FIRE ALARM CONTROL RELAY/MULTI VOLTAGE RELAYS TO SHUT DOWN THE MECHANICAL UNITS LOCATED AT THE ROOF PER 2019 CMC (CALIFORNIA MECHANICAL CODE) SECTION 608 (TYP). CONTRACTOR TO FIELD VERIFY THE EXACT UNIT LOCATION.
- NEW FIRE ALARM POWER SUPPLY AND TERMINAL CABINET AS SHOWN.

WEBBER ELEMENTARY HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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Westminster, CA 92683
DSA SUBMITTAL
DSA APPL. NO.: 04-121818 DSA FILE NO.: 30-43

KEY PLAN

NORTH: PLAN

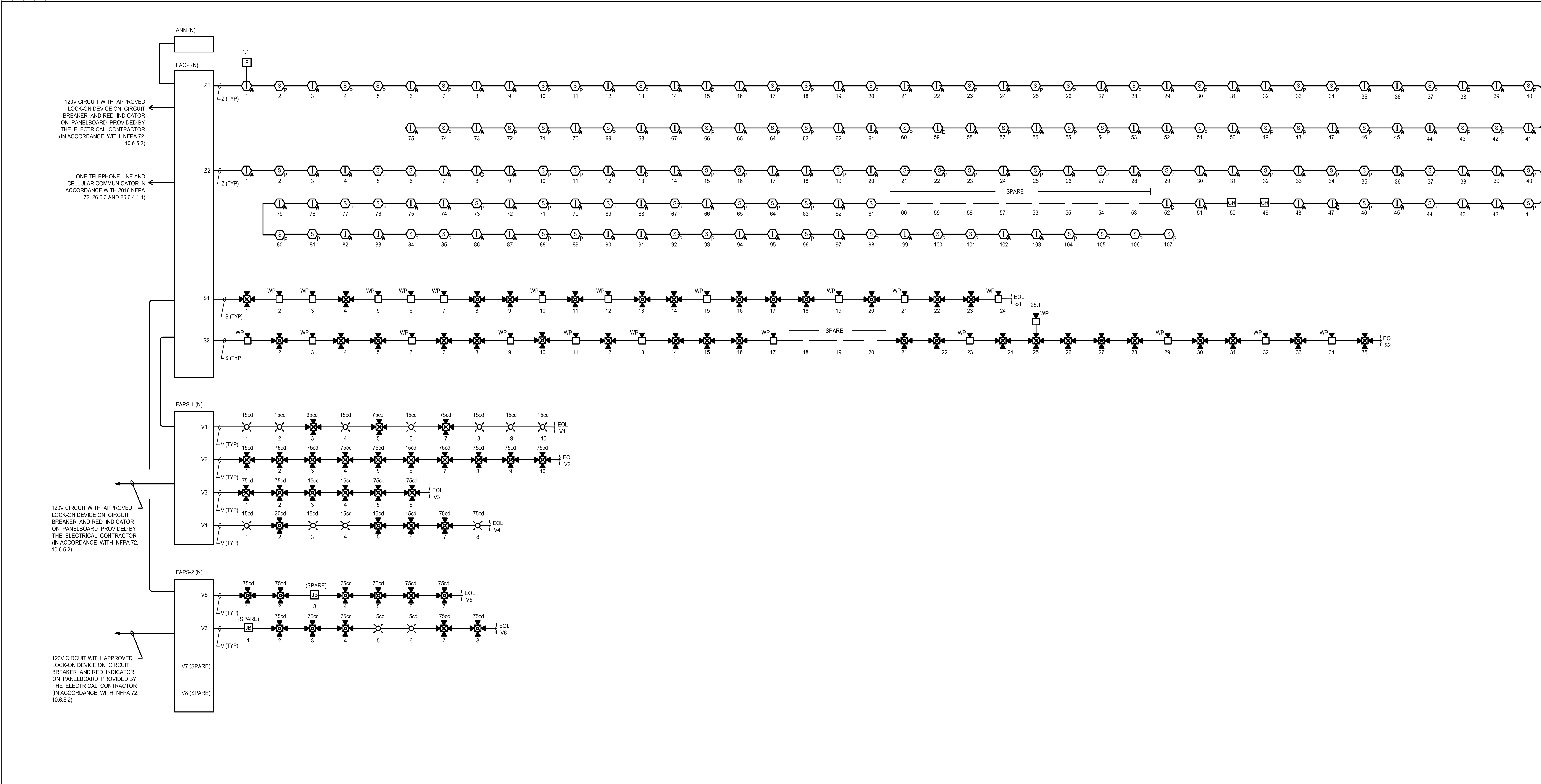


REVISIONS	
Description	Date

DSA SUBMITTAL

FIRE ALARM FLOOR PLANS

FA2.3



2 FIRE ALARM RISER DIAGRAM

NOT TO SCALE

BATTERY CAPACITY CALCULATION SHEET					
FAPS-2					
LOCATION: RELO D4					
QUANTITY	Description	Current(A)	Unit Standby	Total Standby	Unit Alarm
					Total Alarm
1	NAC TRIP	0.075	0.075	0.175	0.175
2	15cd ceiling strobes	0.000	0.000	0.071	0.142
0	15cd ceiling speaker/strobe	0.000	0.000	0.071	0.000
11	75cd ceiling speaker/strobe	0.000	0.000	0.153	1.683
Sub Total				0.075	2.000
A - Battery Backup - Standby (Hour)		24			
B - Battery Backup (minutes)		15			
C - Allowable Error (%)		25			
D - Total Standby Backup (Amp-Hour)		1.800			
E - Total Alarm Backup (Amp-Hour)		0.500			
F - Allowable Error (C x (D + E))		0.575			
Total Amp-Hour Required (D + E + F)		2.875			
Battery Submitted		7 Amp-Hour			

BATTERY CAPACITY CALCULATION SHEET					
FAPS-1					
LOCATION: ADMIN					
QUANTITY	Description	Current(A)	Unit Standby	Total Standby	Unit Alarm
					Total Alarm
1	NAC TRIP	0.075	0.075	0.175	0.175
10	15cd ceiling strobes	0.000	0.000	0.071	0.710
1	75cd ceiling strobes	0.000	0.000	0.153	0.153
6	15cd ceiling speaker/strobe	0.000	0.000	0.071	0.426
1	30cd ceiling speaker/strobe	0.000	0.000	0.096	0.096
15	75cd ceiling speaker/strobe	0.000	0.000	0.153	2.295
1	95cd ceiling speaker/strobe	0.000	0.000	0.176	0.176
Sub Total				0.075	4.031
A - Battery Backup - Standby (Hour)		24			
B - Battery Backup (minutes)		15			
C - Allowable Error (%)		25			
D - Total Standby Backup (Amp-Hour)		1.800			
E - Total Alarm Backup (Amp-Hour)		1.008			
F - Allowable Error (C x (D + E))		0.702			
Total Amp-Hour Required (D + E + F)		3.510			
Battery Submitted		7 Amp-Hour			

FACP BATTERY CALCULATION SHEET					
FACP WITH VOICE EVAC					
LOCATION: ADMIN					
QUANTITY		UNIT STANDBY	TOTAL STANDBY	UNIT ALARM	TOTAL ALARM
		CURRENT(A)	CURRENT(A)	CURRENT(A)	CURRENT(A)
1	MAIN BOARD	0.08100	0.08100	0.15000	0.15000
1	SUPPLEMENT BOARD	0.08100	0.08100	0.15000	0.15000
1	INTERFACE MAIN BOARD	0.05000	0.05000	0.09100	0.09100
1	INTERFACE SUPPLEMENT BOARD	0.05000	0.05000	0.09100	0.09100
0	1SLC W/ DACT	0.07500	0.00000	0.09500	0.00000
0	2SLC W/ DACT	0.08500	0.00000	0.10500	0.00000
1	120V POWER SUPPLY SUB-ASSEMBLY	0.05000	0.05000	0.05000	0.05000
1	DIGITAL COMMUNICATOR (DACT-E3)	0.01800	0.01800	0.01800	0.01800
1	ANNUNCIATOR	0.20000	0.20000	0.20000	0.20000
1	AMPLIFIER KIT	0.10300	0.10300	0.14000	0.14000
1	FIRE PHONE CARD	0.05300	0.05300	0.07500	0.07500
1	AMPLIFIER CARD	0.05200	0.05200	0.31500	0.31500
84	SMOKE DETECTOR	0.00020	0.01672	0.00200	0.16800
8	HEAT DETECTOR	0.00030	0.01751	0.00200	0.17600
1	PULL STATION	0.00000	0.00000	0.00300	0.00300
2	RELAY MODULE	0.00000	0.00000	0.00650	0.01300
SUB TOTAL			0.772		1.640
STANDBY CURRENT x 24 Hrs. (AH)			18.533 AH		
ALARM CURRENT x 15 MINUTES (AH)			0.410 AH		
TOTAL (AH)			18.943 AH		
25% DERATING			4.736 AH		
TOTAL DEMAND (AH)			23.679 AH		
BATTERY REQUIRED			55 AH		

SPEAKER CIRCUIT LOAD CALCULATION										MFG. REC. MAXIMUM LOSS IS: -0.5dB		MAXIMUM	
AMPLIFIER#	CIRCUIT LOCATION	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14 12)	CIRCUIT VOLTAGE (25 OR 70 VRMS)	QUANTITIES / TAP VALUES				TOTAL CIRCUIT LOAD (WATT)	ESTIMATED CIRCUIT LENGTH (FEET)	ACTUAL WIRE/LOSS (dB)	MAXIMUM CKT. LENGTH (FEET)	TOTAL RESISTANCE (OHMS)
					SPEAKER TAPPED AT 0.25 WATTS	SPEAKER TAPPED AT 0.5 WATTS	SPEAKER TAPPED AT 1 WATTS	SPEAKER TAPPED AT 2 WATTS					
AMP	BLDG B,C, ADMIN, K, RELO	S1	14 AWG	70		13			28.50	1600	-0.44	1,830	8.24
	PORTABLE, bldg B, MPR	S2	14 AWG	70		21		12	34.50	1000	-0.33	1,480	5.15
TOTAL									63.00				

