

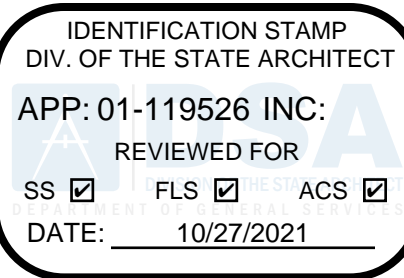
NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

1301 CYPRESS AVENUE, SAN MATEO, CA, 94401

SAN MATEO-FOSTER CITY SCHOOL DISTRICT CONSTRUCTION DOCUMENTS

DSA FILE NUMBER
DSA APPLICATION NUMBER
PTN

41-26
01-119526
69039-107



aedis
architects

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PROJECT

NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT

ABBREVIATIONS

@	AT	LAB	LABORATORY
A.B.	ANCHOR BOLT	LAM.	LAMINATE
ABV.	ABOVE	LAV.	LAVATORY
A.C.	ASPHALTIC CONCRETE	LKR.	LOCKER
ACT	ACUSTIC TILE	LT.	LIGHT
ADJ.	ADJUSTABLE	MAX.	MAXIMUM
A.F.F.	ABOVE FINISHED FLOOR	M.S.	MACHINE BOLT
ALUM.	ALUMINUM	MECH.	MECHANICAL
AP	ACCESS PANEL	MFR.	MANUFACTURER
APPROX.	APPROXIMATELY	M.H.	MANHOLE
ARCH.	ARCHITECT	MIN.	MINIMUM
		MIR.	MIRROR
BD.	BOARD	MISC.	MISCELLANEOUS
BLDG.	BUILDING	M.O.	MASONRY OPENING
BLKG.	BLOCKING	M.S.	MACHINE SCREW
BM	BEAM	MTD.	MOUNTED
B.M.	BENCH MARK	MTL.	METAL
BOT.	BOTTOM	MUL.	MULLION
BTWN	BETWEEN		
B.W.	BOTH WAYS	(N)	NEW
		N.C.	NOT IN CONTRACT
CAB.	CATCH BASIN	N.O. or #	NUMBER
C.C. or O.C.	CENTER TO CENTER	NOM.	NOMINAL
CEM.	CEMENT	N.T.S.	NOT TO SCALE
CER. TILE	CERAMIC TILE		
C.G.	CORNER GUARD	OBS.	OBSCURE
C.I.	CAST IRON	O.C.	ON CENTER
C.J.	CONTROL JOINT	OCC.	OCCUPANT(CY)
CLG.	CEILING	O.D.	OVERFLOW DRAIN and/or OUTSIDE DIAMETER
CLKG.	CAULKING	O.F.O.S.	OUTSIDE FACE OF STUD
CLR.	CLEAR	O.F.C.I.	OWNER FURNISHED and CONTRACTOR INSTALLED
CMU	CONCRETE MASONRY UNIT	O.H.	OPPOSITE HAND
CNTR.	COUNTER	OPNG.	OPENING
C.O.	CLEANOUT	OPP.	OPPOSITE
COL.	COLUMN		
CONC.	CONCRETE	P.A.F.	POWDER ACTUATED FASTENER
CONST.	CONSTRUCTION	PL	PROPERTY LINE
CONT.	CONTRACTOR	P.L.	PLASTER
CONTR.	CONTRACT	P.LAM	PLASTIC LAMINATE
C.P.	CENTER PIPE	PLAS.	PLASTER
CTR.	CENTER	PLYWD.	PLYWOOD
CTSK.	COUNTER SINK	PR	PAINTED
C.W.	COLD WATER	PTN.	PARTITION
		Q.T.	QUARRY TILE
D.A.	DISABLED ACCESS		
DBL.	DOUBLE	R. or RAD.	RADIUS
D.F.	DOUBLE FLOOR	R.C.P.	REINFORCED CONCRETE PIPE
D.FIR	DOUGLAS FIR	R.D.	ROOF DRAIN
DTL.	DETAIL	R.E.	RIM ELEVATION
DIAM. or Ø	DIAMETER	REF.	REFERENCE
DIM.	DIMENSION	REIN.	REINFORCING
DISP.	DISPOSAL	RENO.	REQUIRED
DN	DOWN	R.H.W.S.	ROUND HEAD WOOD SCREW
DO	DOOR	R.O.	ROUGH OPENING
DOWNSPOUT	DOWNSPOUT	RM	ROOM
DWG.	DRAWING	RWD.	ROUGH OPENING
		RWL.	RAIN WATER LEADER
(E)	EXISTING	S	SOUTH
E.	EAST	S.A.D.	SEE ARCHITECTURAL DRAWINGS
E.A.	EXPANSION JOINT	S.C.	SOLID CORE
E.J.	ELECTRICAL	S.C.D.	SEE CIVIL DRAWINGS
EL.	ELEVATION	SCHED.	SCHEDULE
ELEV.	ELEVATOR	S.E.D.	SEE ELECTRICAL DRAWINGS
ENCL.	ENCLOSURE and/or	S.F.	SQUARE FEET
EQ.	EQUAL	SHEATH.	SHEATHING
EQUIP.	EQUIPMENT	SHT.	SHEET
E.W.	EACH WAY	SIM.	SIMILAR
E.W.C.	ELECTRIC WATER COOLER	S.L.D.	SEE LANDSCAPE DRAWINGS
EX.	EXPOSED	S.M.	SEE MECHANICAL DRAWINGS
EXP.	EXPANSION	S.M.S.	SHEET METAL SCREW
EXT.	EXTERIOR	S.O.V.	SHUT OFF VALVE
		S.P.D.	SEE PLUMBING DRAWINGS
F.A.	FIRE ALARM	SPEC.	SPECIFICATIONS
F.D.	FLOOR DRAIN	SQ. or Ø	SQUARE
FDM.	FOUNDATION	S.S.	STAINLESS STEEL
F.E.	FIRE EXTINGUISHER	S.S.D.	SEE STRUCTURAL DRAWINGS
F.F.C.	FIRE EXTINGUISHER CABINET	STAG.	STAGGERED
F.H.	FIRE HYDRANT	STD.	STANDARD
F.H.C.	FIRE HOSE CABINET	STL.	STEEL
F.H.M.S.	FLAT HEAD SHEET METAL SCREW	STOR.	STORAGE
F.H.W.S.	FLAT HEAD WOOD SCREW	STRUC.	STRUCTURAL
FIN.	FINISH	S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
FL. or FLR.	FLOOR	SUSP.	SUSPENDED
F.O.F.	FACE OF FINISH	T.A.G.	TONGUE & GROOVE
F.O.M.	FACE OF MASONRY	TEL.	TELEPHONE
F.O.S.	FACE OF STUD	TERR.	TERRAZZO
F.S.	FINISH SLAB	THRES.	THRESHOLD
FT.	FOOT OR FEET	T.J.	TOOLED JOINT
FTG.	FOOTING	T.O.B.	TOP OF BEAM
FURR.	FURRING	T.O.C.	TOP OF CURB or CONCRETE
		T.O.S.	TOP OF STEEL or SLAB
GA.	GAUGE	T.O.W.	TOP OF WALL
GALV.	GALVANIZED	TYP.	TYPICAL
G.B.	GRAB BAR	U.O.N.	UNLESS OTHERWISE NOTED
GL.	GALVANIZED IRON	VERT.	VERTICAL
GLU-LAM	GLUE-LAMINATED	V.C.P.	VITRIFIED CLAY PIPE
GND.	GROUND	V.C.T.	VINYL COMPOSITION TILE
GRP.	GRADE	V.G.	VERTICAL GRAIN
GYP.	GYPNUM	V.H.	VERIFY IN FIELD
		V.L.F.	VENT THROUGH ROOF
H.B.	HOLE BIBB	V.V.C.	VINYL WALL COVERING
H.C.	HARDWOOD	W	WEST
HWDO.	HOLLOW CORE	W.	WITH
HWDR.	HOLLOW METAL	W.C.	WATER CLOSET
HORIZ.	HORIZONTAL	WO.	WOOD
HT.	HEIGHT	WO.	WATER HEATER
		WO.	WITHOUT
I.D.	INSIDE DIAMETER	WIER.	WHERE OCCURS
INSUL.	INSULATION	WP.	WATERPROOF / WEATHERPROOF
INT.	INTERIOR	W.P.	WORKING POINT
INV.	INVERT	W.R.	WATER RESISTANT
JAN.	JANITOR	WT.	WEIGHT
JNT.	JOINT		
K.D.	KILN DRIED		

BOARD OF TRUSTEES

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ALISON PROCTOR (VICE PRESIDENT)
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LISA WARREN (MEMBER)

DISTRICT SUPERINTENDANT
DR. JOAN ROSAS

CONSULTANTS

MECHANICAL

CYPRESS ENGINEERING GROUP
8 HARRIS COURT, SUITE A8
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ELECTRICAL

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1590 THE ALAMEDA, SUITE 200
SAN JOSE, CA 95126
(408) 236-2312

STRUCTURAL

BASE DESIGN, INC.
582 MARKET STREET, SUITE 1042
SAN FRANCISCO, CA 94104
(415) 455-2997

REFERENCE STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS (AS REFERENCED IN 2019 CBC - CHAPTER 35 & CFC):

ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) 2010 EDITION

APPLICABLE CODES

- 2019 BUILDING STANDARDS ADMINISTRATION CODE (PART 1, TITLE 24, CCR)
- 2019 CALIFORNIA BUILDING CODE (PART 2, VOLUMES 1 AND 2, TITLE 24, CCR)
- 2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
- 2019 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
- 2019 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
- 2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
- 2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
- 2019 CALGREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
- TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

ADMINISTRATIVE REQUIREMENTS

- A COPY OF PART 1 TO 5 CCR SHALL BE KEPT ON SITE AT ALL TIMES.
- ALL CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA TO BE SIGNED BY THE ARCHITECT, THE OWNER, AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338.
- ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335.
- TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335.
- DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331.
- INSPECTOR SHALL BE APPROVED BY DSA. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342.
- SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH 4-334.
- CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM 6) IN ACCORDANCE WITH SECTION 4-338 AND 4-343.
- THE ARCHITECT AND THE STRUCTURAL ENGINEERS SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
- THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THE (RE)CONSTRUCTION OF A SCHOOL BUILDING(S) IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID C.C.R. A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- DSA IS NOT SUBJECT TO ARBITRATION.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

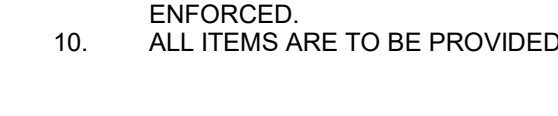
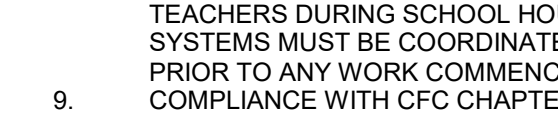
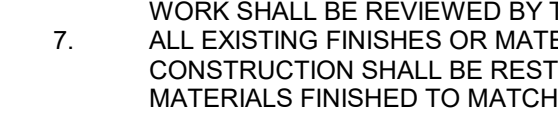
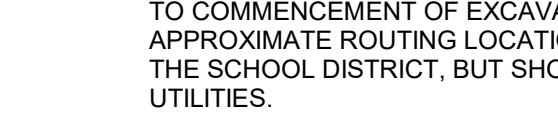
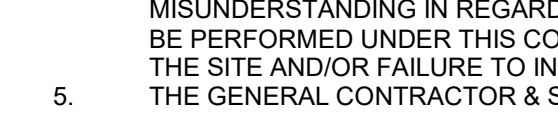
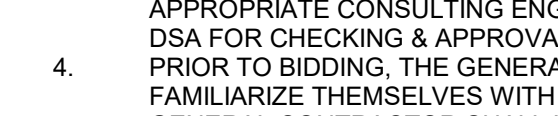
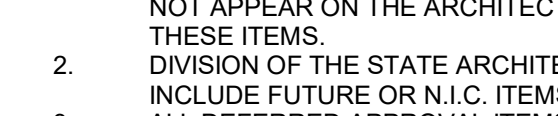
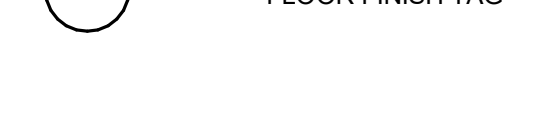
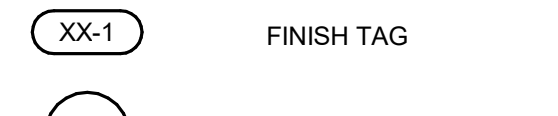
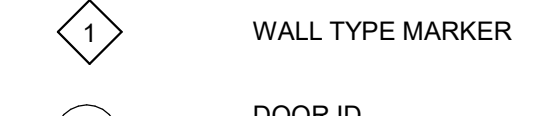
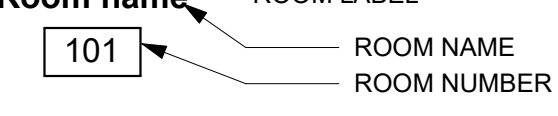
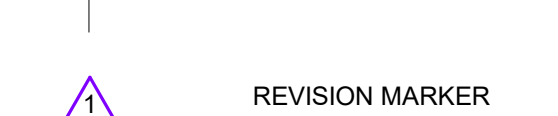
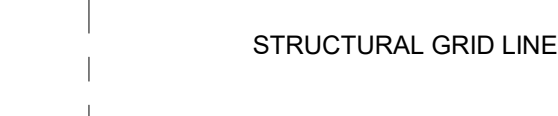
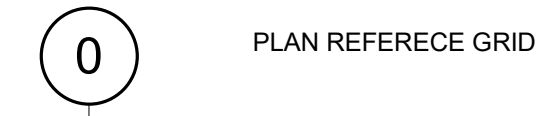
SYMBOL LEGEND

REFER TO ARCHITECTURAL FLOOR PLAN SHEETS AND CONSULTANT DRAWINGS FOR ADDITIONAL SYMBOLS AND REFERENCE DESIGNATIONS

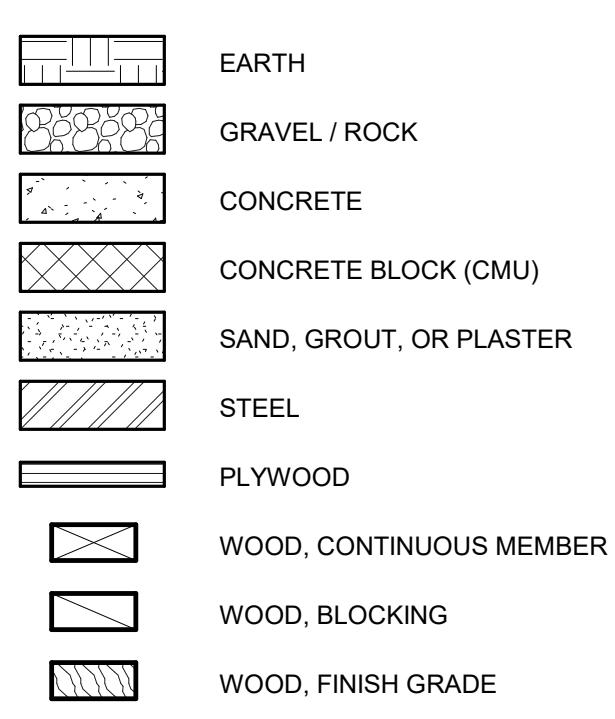
DIMENSION REFERENCE



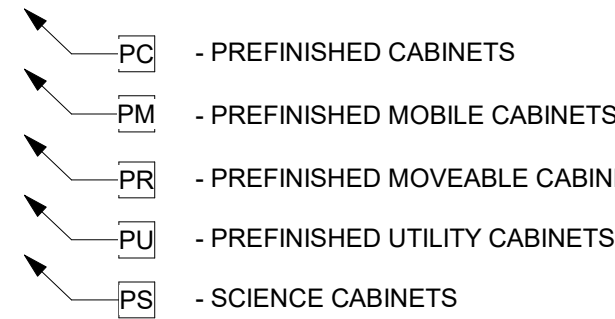
TAGS AND MARKERS



MATERIALS REFERENCE

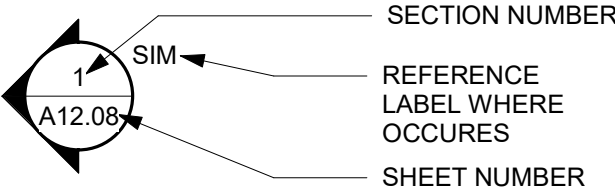


CABINET TYPES

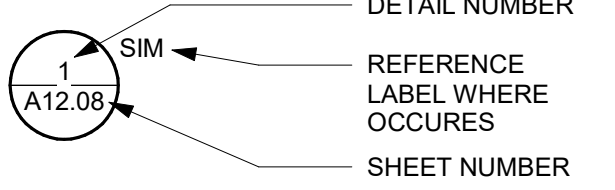


NOTE: REFER TO SPECIFICATIONS FOR SPECIFIC CABINET TYPE REQUIREMENTS.

SECTION REFERENCE



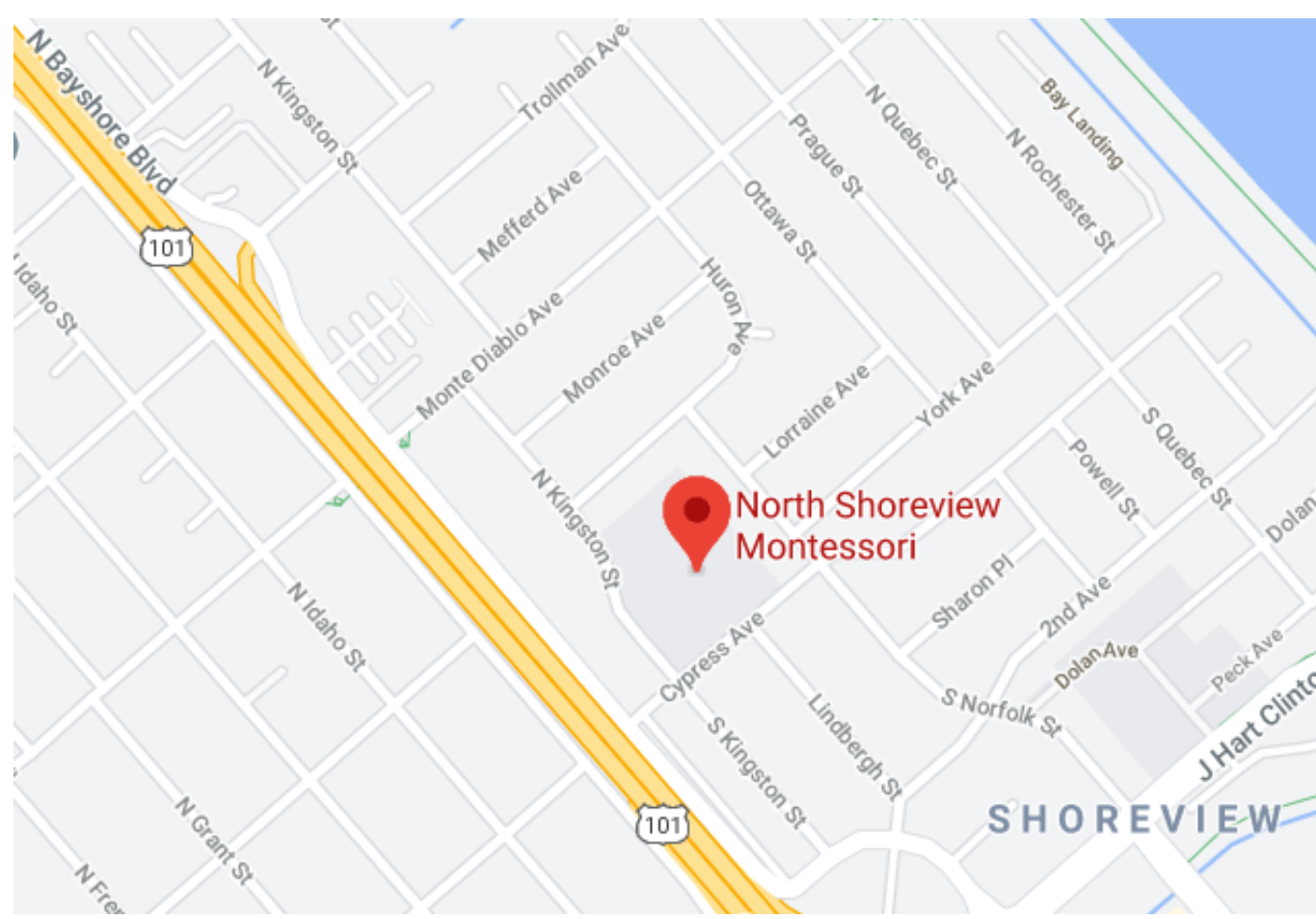
DETAIL REFERENCE



DEFERRED APPROVAL ITEMS

- NONE

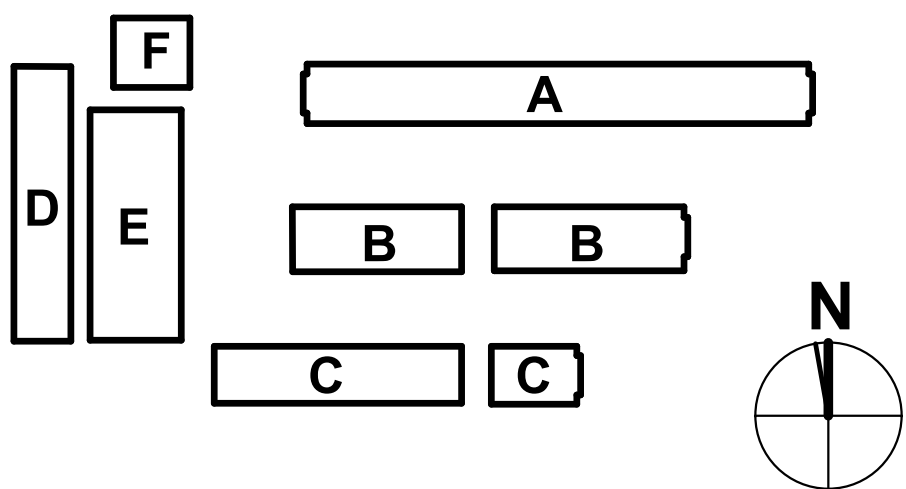
LOCATION MAP



SCOPE OF WORK

SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO CAMPUS WIDE ELECTRICAL SERVICE UPGRADE AND REPLACEMENT OF HVAC EQUIPMENT AND ENCLOSURES. THIS PROJECT IS EXEMPT FROM PATH OF TRAVEL ALTERATION PER C.B.C. 11B-202.4, EXCEPTION 7.

BUILDING KEY



GENERAL NOTES

- ITEMS OF A CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, OR ELECTRICAL NATURE MAY NOT APPEAR ON THE ARCHITECTURAL DRAWINGS. SEE APPROPRIATE DRAWINGS FOR THESE ITEMS.
- DIVISION OF THE STATE ARCHITECT (DSA) APPROVAL OF THIS APPLICATION DOES NOT INCLUDE FUTURE OR N.I.C. ITEMS.
- ALL DEFERRED APPROVAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND THE APPROPRIATE CONSULTING ENGINEER FOR REVIEW & APPROVAL PRIOR TO SUBMITTING TO DSA FOR CHECKING & APPROVAL.
- PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN, OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE, OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE AND/OR FAILURE TO INSPECT THE CONTRACT DOCUMENTS.
- THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF THE NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS & BY THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL EXISTING UTILITIES.
- ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- ALL EXISTING FINISHES OR MATERIALS DAMAGED OR DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE OR REPLACED WITH NEW MATERIALS FINISHED TO MATCH EXISTING.
- CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISRUPTION OF STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF POWER, TELEPHONE, OR HVAC SYSTEMS MUST BE COORDINATED AND APPROVED BY THE DISTRICT REPRESENTATIVE PRIOR TO ANY WORK COMMENCING.
- COMPLIANCE WITH CFC CHAPTER 33 (FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION) AND CBC CHAPTER 33 (SAFEGUARDS DURING CONSTRUCTION) WILL BE ENFORCED.
- ALL ITEMS ARE TO BE PROVIDED AS NEW, UNLESS OTHERWISE NOTED AS (E).

DRAWING INDEX

- TITLE SHEET

ARCHITECTURAL

- A1.02 SITE PLAN
- A2.01 DEMOLITION FLOOR PLAN - BLDGS A, B, & C
- A2.02 DEMOLITION FLOOR PLAN - BLDGS D & E
- A3.01 NEW FLOOR PLANS - BLDGS A, B, & C
- A3.02 NEW FLOOR PLANS - BLDGS D & E
- A4.01 REFLECTED CEILING PLANS
- A5.01 SITE ROOF PLAN
- A8.10 EXTERIOR DETAILS
- A8.10 INTERIOR ELEVATIONS & DETAILS
- A11.01 FINISH SCHEDULE & OPENING SCHEDULE, LEGENDS, & DETAILS

STRUCTURAL

- S1.01 ABBREVIATIONS AND GENERAL NOTES
- S2.01 EXISTING FRAMING PLANS - BLDGS A, B, & C
- S2.02 EXISTING FRAMING PLANS - BLDGS D & E
- S5.01 TYPICAL CONCRETE DETAILS
- S5.02 TYPICAL CONCRETE DETAILS
- S8.01 FRAMING DETAILS AND NAILING SCHEDULE

MECHANICAL

- MP0.01 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL
- MP1.02 SCHEDULES - MECHANICAL
- MP2.01 FLOOR PLAN - DEMO - BLDGS A, B, & C - MECHANICAL & PLUMBING
- MP2.02 FLOOR PLAN - DEMO - BLDG D - MECHANICAL & PLUMBING
- MP2.03 FLOOR PLAN - NEW - BLDGS A, B, & C - MECHANICAL & PLUMBING
- MP2.04 FLOOR PLAN - NEW - BLDG D - MECHANICAL & PLUMBING
- MP8.01 CONTROLS - MECHANICAL
- MP8.01 DETAILS - MECHANICAL & PLUMBING
- MP8.01 TITLE 24 DOCUMENTS - MECHANICAL & PLUMBING
- MP8.02 TITLE 24 DOCUMENTS - MECHANICAL

ELECTRICAL

- E0.1 ELECTRICAL COVER SHEET
- E1.1 ELECTRICAL SITE PLAN
- E2.1 DEMO FLOOR PLAN - BLDGS A, B, & C
- E2.2 DEMO FLOOR PLAN - BLDGS D & E
- E3.1 NEW FLOOR PLAN - BLDGS A, B, & C
- E3.2 NEW FLOOR PLAN - BLDGS D & E
- E4.1 DEMO SINGLE LINE DIAGRAM
- E4.2 NEW SINGLE LINE DIAGRAM
- E4.3 ELECTRICAL PANEL SCHEDULES
- E5.1 ELECTRICAL DETAILS
- E5.2 ELECTRICAL DETAILS
- E5.3 ELECTRICAL DETAILS
- E5.4 ELECTRICAL DETAILS

TOTAL SHEET COUNT: 40

* These drawings, and/or specifications, and/or calculations for the items listed above 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:

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

THANG DO
PRINCIPAL IN CHARGE
C-018127
CALIFORNIA LICENSE NUMBER

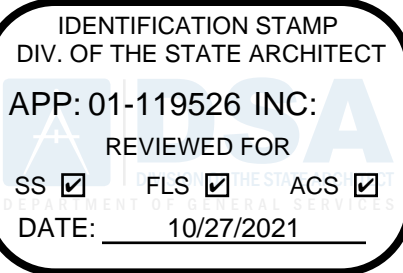
10/22/2021
DATE -
11/30/21
EXPIRATION DATE

DATE 10/22/2021
JOB # 2021005.05
SHEET #

T1

GENERAL SHEET NOTES

- A BUILDINGS ARE UNSPRINKLERED, TYPE V-B CONSTRUCTION UNLESS OTHERWISE NOTED.
- B NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
- C CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT
- D DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.
- E PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.
- F REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EXTENT OF ELECTRICAL AND MECHANICAL WORK.
- G TOP OF EXTERIOR ELECTRICAL EQUIPMENT PADS TO BE LOCATED 12" MIN. ABOVE 10' FEMA BASE FLOOD ELEVATION, PER ASCE 24-14 TABLE 1-1. 10' FEMA BASE FLOOD ELEVATION CORRELATES TO 106.929' ON SAN MATEO SURVEY DATUM.

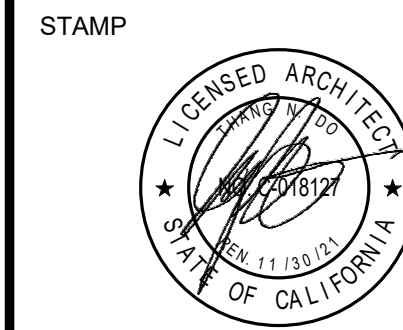


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PROJECT
NORTH
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ELEMENTARY
SCHOOL - HVAC
REPLACEMENT
SAN MATEO-FOSTER CITY
SCHOOL DISTRICT
CONSULTANT

NEW SITE PLAN KEYNOTES

- 1 (E) CHAINLINK FENCING TO REMAIN
2 (E) GATE TO REMAIN
3 (E) CONCRETE STAIRS
4 AT (E) CONCRETE PAVING, UTILIZE POST ANCHORAGE DETAIL 3/A8.10
5 CHAINLINK FENCE, SEE DETAIL 2/A8.10 AND S.E.D. 4" SPHERE SHALL NOT PASS BETWEEN FENCING AND ADJACENT SURFACES.
6 ELECTRICAL EQUIPMENT, SEE SHEET E1.1. TOP OF CONCRETE TO BE 108' ELEVATION PER SAN MATEO DATUM. ADJACENT A.C. TO BE 107.5' ELEVATION.
7 REMOVE (E) ELECTRICAL EQUIPMENT AND PAD, S.E.D.
8 ATTACH CHAINLINK TO (E) POLE.
9 CONFORM A.C. GRADING FLUSH TO ADJACENT (E) A.C. TO REMAIN. SEE 9/A8.10 FOR A.C. ASSEMBLY. GRADE A.C. TO DRAIN AROUND ELECTRICAL EQUIPMENT. COORDINATE WITH PULLBOXES INSTALLED FLUSH TO GRADE, SEE 2/E1.1.
10 (E) TREE TO REMAIN. ADJACENT NEW ELECTRICAL EQUIPMENT, TRIM CANOPY FOR PG&E ACCESS.
11 LEVEL CLEARANCE AT FRONT OF TRANSFORMER, S.E.D.
12 REMOVE PAVING EXTENTS AS REQUIRED AND PREP FOR NEW WORK. SEE 2/E1.1 AND SEE 2/A1.02 FOR MORE INFORMATION.
13 CONTOUR LINE OF ELEVATION 107' PER SAN MATEO SURVEY DATUM, EQUIVALENT TO 10.071' PER FEMA SURVEY DATUM.
14 SALVAGE AND REINSTALL (E) CHAINLINK FENCING AS REQUIRED FOR CONSTRUCTION ACCESS.
15 (E) STEEL GRATE TO TUNNEL CRAWL SPACE BELOW.
16 PATCH (E) STAIRS AT ELECTRICAL TRENCHING, SEE E1.1 AND DETAIL 20/A9.10
17 (E) PULLBOX TO REMAIN.



STATE
DSA FILE NUMBER 41-26
APPL # 01-119526

REVISIONS		
No.	Description	Date
△		

MILESTONES		
DD		
90% CD		
DSA SUB	05/24/2021	
BACKCHECK	10/22/2021	

SHEET
SITE PLAN

DATE 10/22/2021
JOB # 2021005.05
SHEET #

A1.02

1 NEW SITE PLAN
SCALE: 1/32" = 1'-0"

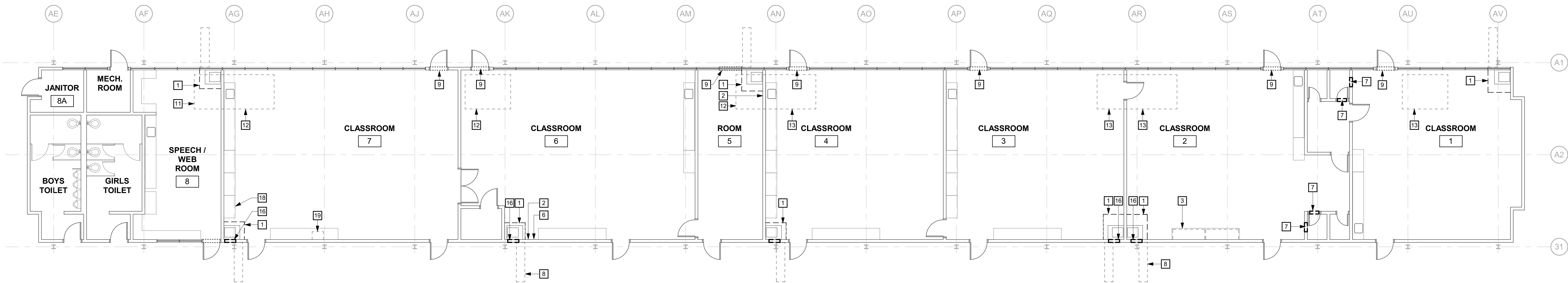
4 EXISTING GRADING - FOR REFERENCE ONLY
SCALE: 1/16" = 1'-0"

3 DEMOLITION ENLARGED SITE PLAN
SCALE: 1/16" = 1'-0"

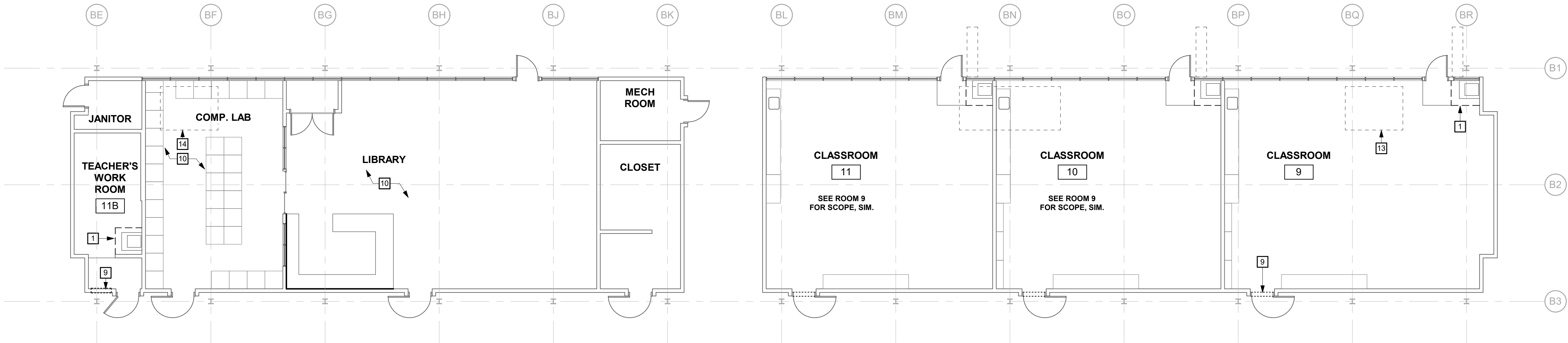
2 NEW ENLARGED SITE PLAN
SCALE: 1/16" = 1'-0"

GRAPHIC KEY

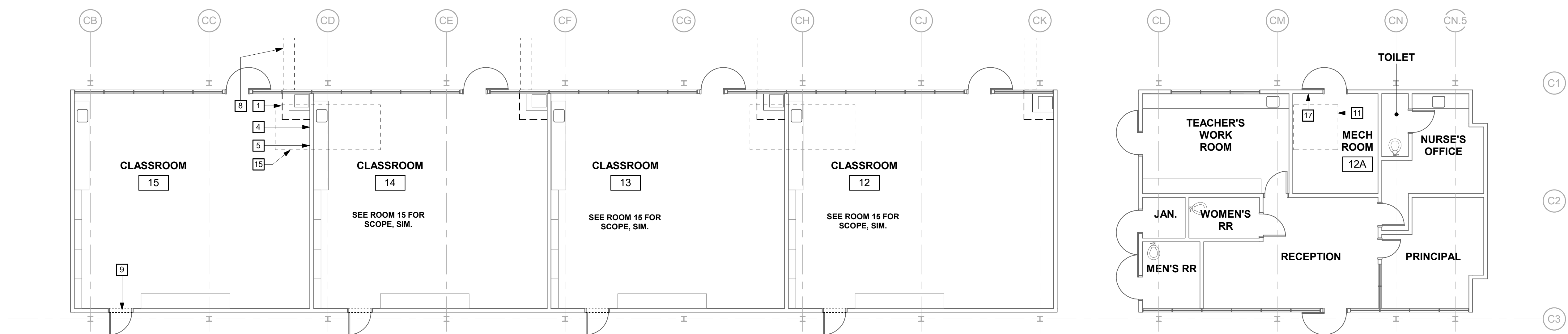
- EXISTING TOILET ROOMS.
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING COVERED STRUCTURE
- PROPERTY LINE
- (E) CHAINLINK FENCE
- (N) CHAINLINK FENCE
- EXISTING FIRE HYDRANT
- (E) F.H.



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



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



3 DEMOLITION FLOOR PLAN - BLDG C
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.
- B REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION WORK.
- C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.
- D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.
- E REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT, AS REQUIRED TO FACILITATE SCOPE OF WORK. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
- F REMOVE ADJACENT FINISHES AS REQUIRED TO FACILITATE SCOPE OF WORK, PATCH BACK IN KIND.
- G EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.
- H NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

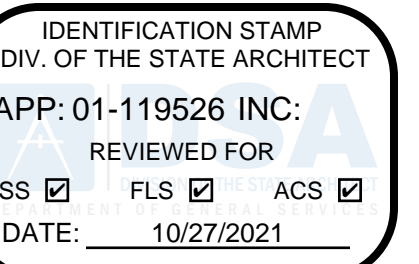
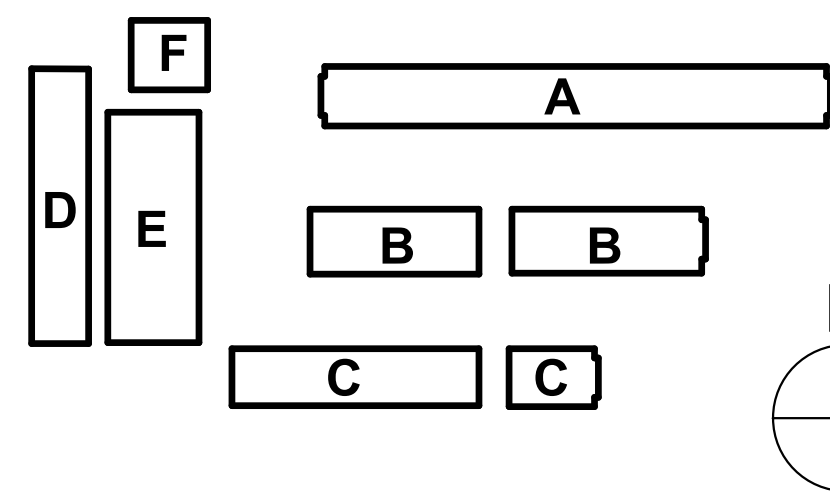
DEMOLITION FLOOR PLAN KEYNOTES

- 1 REMOVE (E) MECHANICAL UNIT AND METAL ENCLOSURE, S.M.D. REMOVE (E) NON-STRUCTURAL BLOCKING BETWEEN JOISTS.
- 2 RECONFIGURE (E) WIREMOLD. SHORTEN CONFIGURATION TIGHT TO NEW ENCLOSURE AND PROVIDE END CAP. SEE NEW FLOOR PLAN FOR MORE INFORMATION.
- 3 REMOVE (E) STORAGE ENCLOSURE ON TOP OF CASEWORK.
- 4 SHORTEN (E) RACEWAY. COORDINATE LENGTH TIGHT TO NEW ENCLOSURE. SEE NEW FLOOR PLANS.
- 5 SALVAGE (E) 4x 8" TACK PANEL AND TURN OVER TO DISTRICT.
- 6 RELOCATE (E) DATA OUTLET, COORDINATED TO RECONFIGURED WIREMOLD. LOCATE A.F.F. 15" MIN. TO 48" MAX.
- 7 CUT AND PREP OPENING, S.M.D. AND S.S.D.
- 8 REMOVE PAVING AND PREP FOR NEW WORK, S.M.D.
- 9 REMOVE (E) WINDOW GLAZING ABOVE AND PREP FOR NEW WORK, S.M.D.
- 10 (E) SUSPENDED 24"x48" A.C.T. CEILING ABOVE, S.E.D. AND REMOVE AND REINSTALL TILES AS REQUIRED FOR CONSTRUCTION ACCESS. DO NOT ALTER SUSPENDED GRID.
- 11 REMOVE (E) GYP. BD. CEILING FINISH FOR MECHANICAL UNIT CURB BLOCKING. S.M.D., S.S.D., AND SEE ROOF PLAN.
- 12 REMOVE (E) GLUE UP A.C.T. O' GYP. BD. CEILING ASSEMBLY FOR MECHANICAL UNIT CURB BLOCKING. S.M.D., S.S.D., AND SEE ROOF PLAN.
- 13 REMOVE (E) GLUE UP CEILING TILES FOR MECHANICAL UNIT CURB INSTALLATION AT ROOF. S.M.D., S.S.D., AND SEE ROOF PLAN.
- 14 SALVAGE AND REINSTALL (E) LAY IN A.C.T. AT SUSPENDED A.C.T. GRID FOR MECHANICAL UNIT CURB BLOCKING. S.M.D., S.S.D., AND SEE ROOF PLAN.
- 15 REMOVE (E) CEMENT PLASTER CEILING FINISH FOR MECHANICAL UNIT CURB BLOCKING. S.M.D., S.S.D., AND SEE ROOF PLAN.
- 16 CUT AND PREP WALL FOR LOUVER OPENING, S.M.D. AND SEE S/S8.01. DO NOT OVERCUT.
- 17 PREP FOR NEW WORK, S.M.D.
- 18 SALVAGE AND REINSTALL IN KIND (E) CASEWORK AND WALL BASE AS REQUIRED FOR CONSTRUCTION ACCESS.
- 19 SALVAGE AND TURN OVER TO DISTRICT (E) PROJECTOR AND MOUNTING BRACKET.

GRAPHIC KEY

- EXISTING WALL TO REMAIN.
- EXISTING STOREFRONT OR WINDOW TO REMAIN.

BLDG KEY



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NORTH
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ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER 41-26
APPL # 01-119526

REVISIONS

No.	Description	Date
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MILESTONES

DD	
90% CD	
DSA SUB	05/24/2021
BACKCHECK	10/22/2021

SHEET

DEMOLITION
FLOOR PLAN -
BLDGs A, B, & C

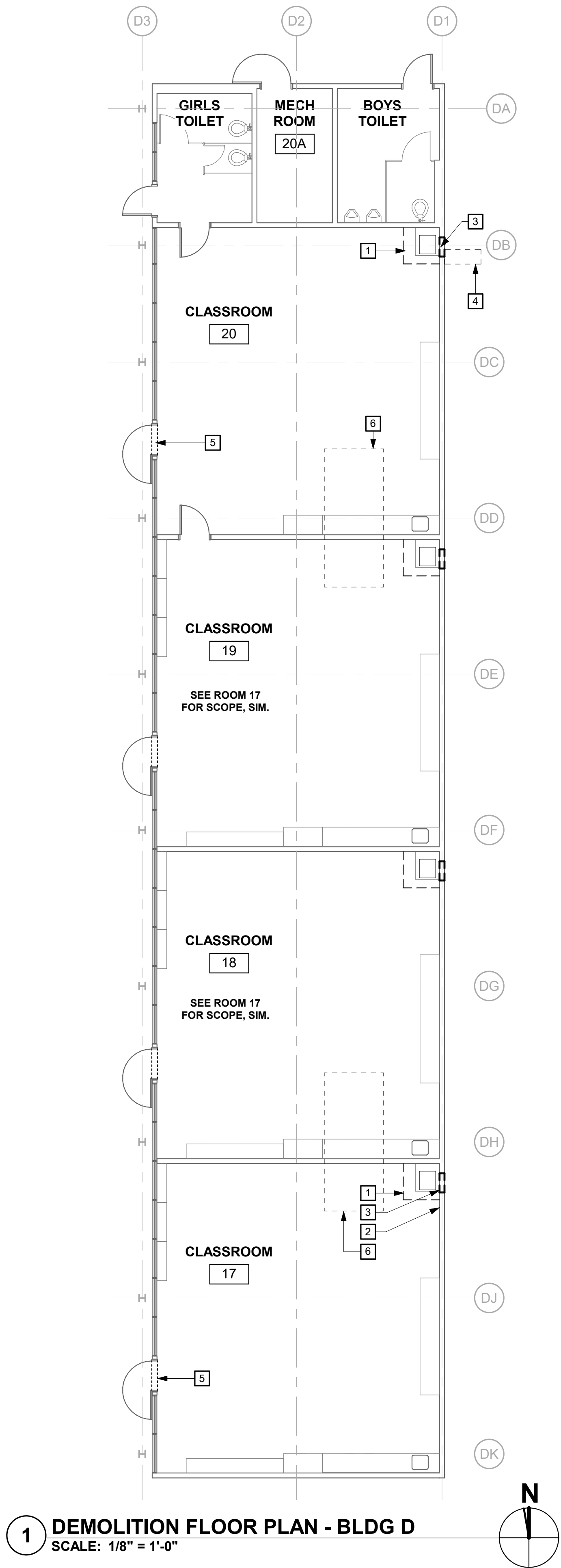
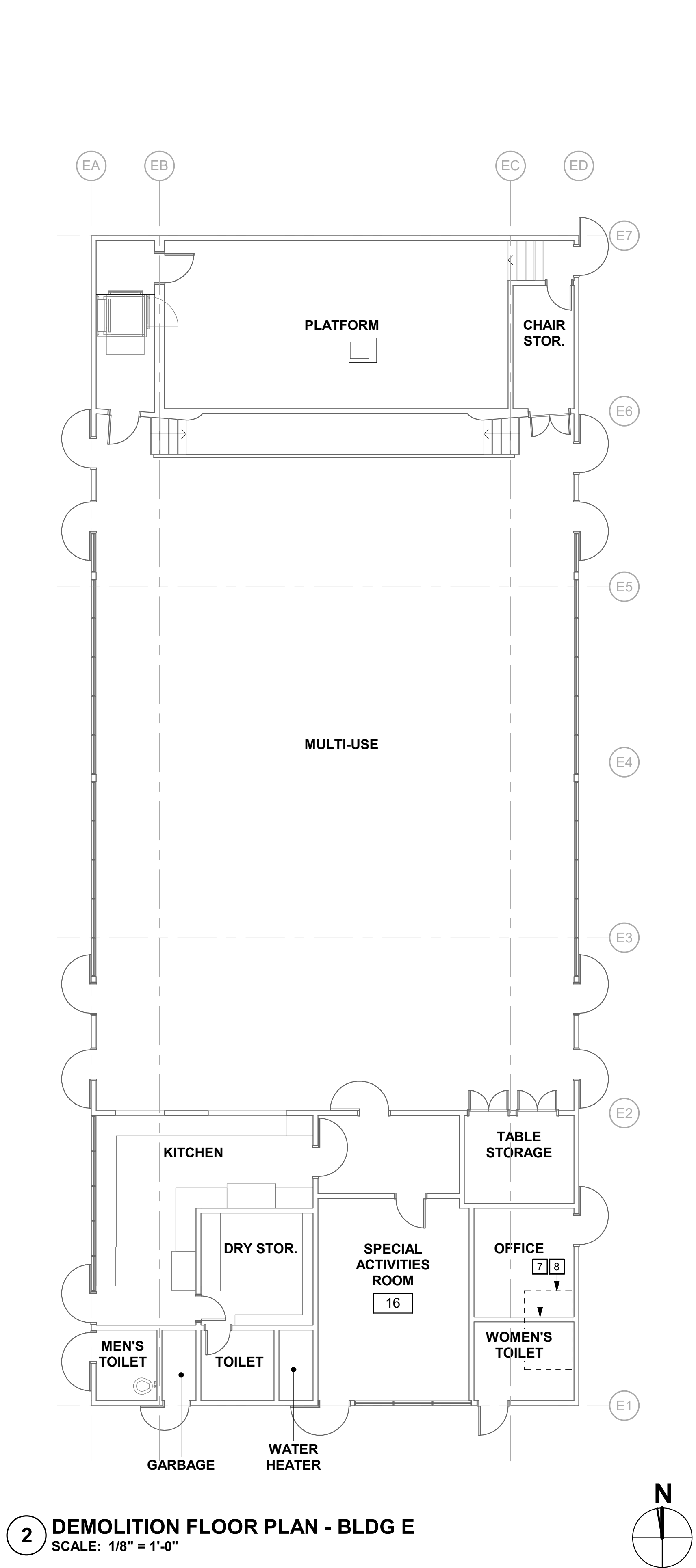
DATE

10/22/2021
JOB # 2021005.05

SHEET #

A2.01

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GENERAL SHEET NOTES

- A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.
- B REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION WORK.
- C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.
- D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS.
- E REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT, AS REQUIRED TO FACILITATE SCOPE OF WORK. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
- F REMOVE ADJACENT FINISHES AS REQUIRED TO FACILITATE SCOPE OF WORK. PATCH BACK IN KIND.
- G EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.
- H NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

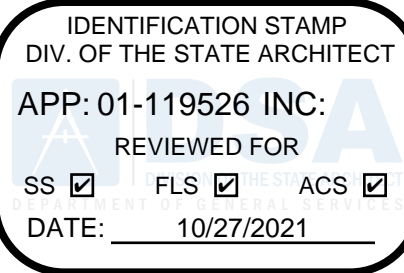
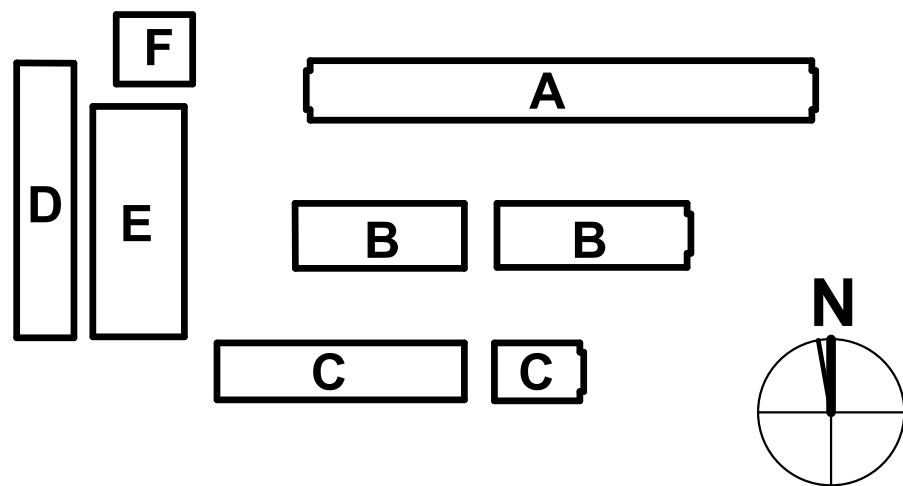
DEMOLITION FLOOR PLAN KEYNOTES

- 1 REMOVE (E) MECHANICAL UNIT AND METAL ENCLOSURE. S.M.D. REMOVE (E) NON-STRUCTURAL BLOCKING BETWEEN JOISTS.
- 2 RECONFIGURE (E) ADJACENT WIREMOLD
- 3 CUT AND PREP WALL FOR LOUVER OPENING. S.M.D. AND SEE S/S8.01. DO NOT OVERCUT.
- 4 REMOVE PAVING AND PREP FOR NEW WORK. S.M.D.
- 5 REMOVE (E) WINDOW GLAZING ABOVE AND PREP FOR NEW WORK. S.M.D.
- 6 REMOVE (E) GLUE UP A.C.T. O' GYP. BD. CEILING ASSEMBLY FOR MECHANICAL UNIT CURB BLOCKING. S.M.D., S.S.D., AND SEE ROOF PLAN.
- 7 PREP FOR NEW WORK. S.M.D.
- 8 REMOVE (E) GYP. BD. CEILING FINISH FOR MECHANICAL UNIT CURB BLOCKING. S.M.D., S.S.D., AND SEE ROOF PLAN.

GRAPHIC KEY

- EXISTING WALL TO REMAIN.
- EXISTING STOREFRONT OR WINDOW TO REMAIN.

BLDG KEY



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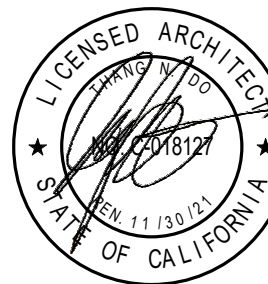
PROJECT

**NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT**

**SAN MATEO-FOSTER CITY
SCHOOL DISTRICT**

CONSULTANT

STAMP



STATE

DSA FILE NUMBER **41-26**
APPL # **01-119526**

REVISIONS

No.	Description	Date
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MILESTONES

DD	
90% CD	
DSA SUB	05/24/2021
BACKCHECK	10/22/2021

SHEET

**DEMOLITION
FLOOR PLAN -
BLDGS D & E**

DATE

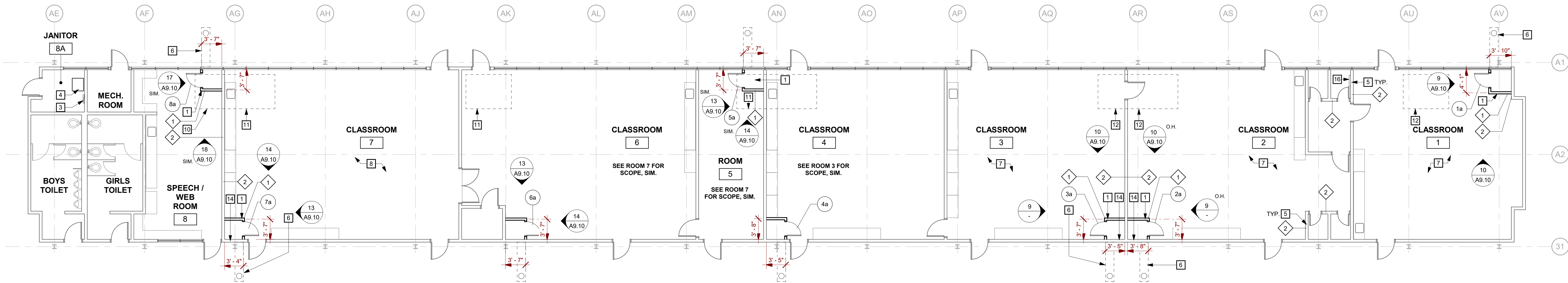
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JOB

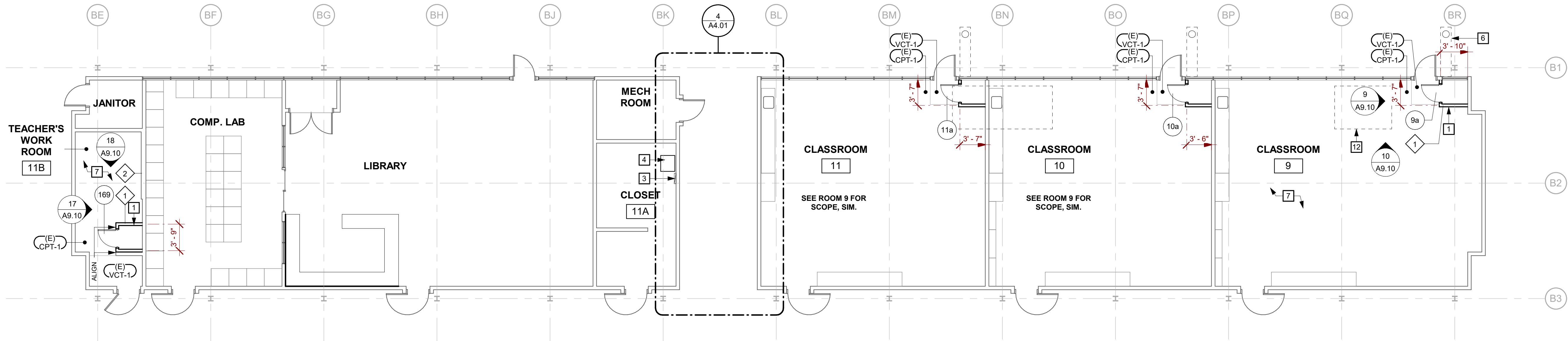
2021005.05

SHEET

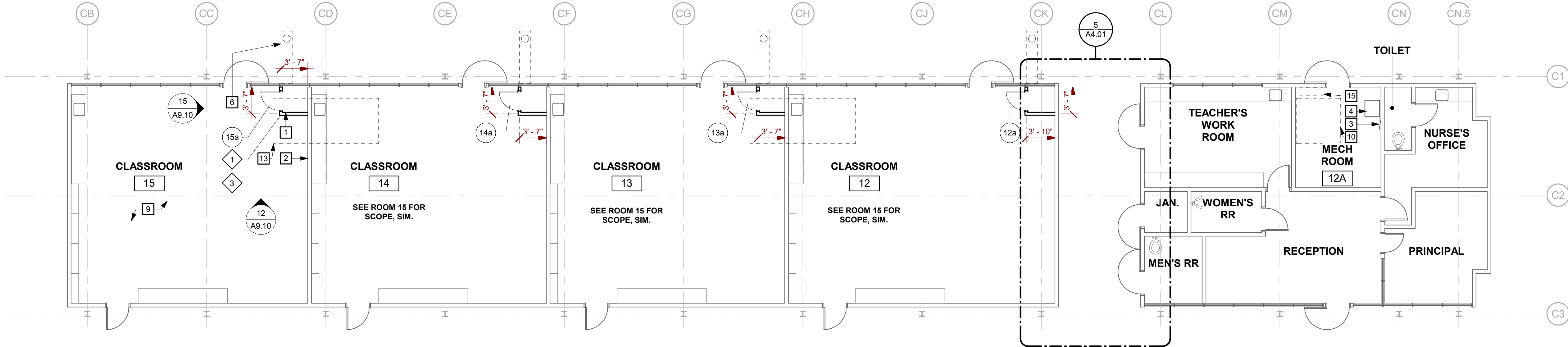
A2.02



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



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



3 NEW FLOOR PLAN - BLDG C
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- A REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK.
- B DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.
- C PATCH AND PAINT WALL AT REMOVED CASEWORK, REMOVED WALL MOUNTED BOARDS, OR RECONFIGURED RACEWAY.
- D SCRIBE FINISHES TIGHT TO ADJACENT CONDITIONS INCLUDING WALL FINISHES, WINDOWS, AND DUCTWORK.
- E PROVIDE NEW WALL BASE AT ALL REMOVED CASEWORK, NEW PARTITION WALLS, OR PATCHED FLOORING.

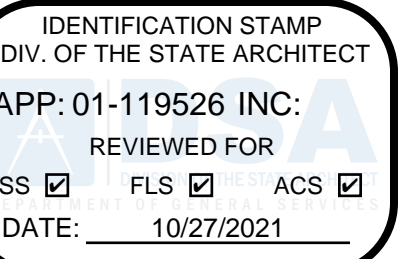
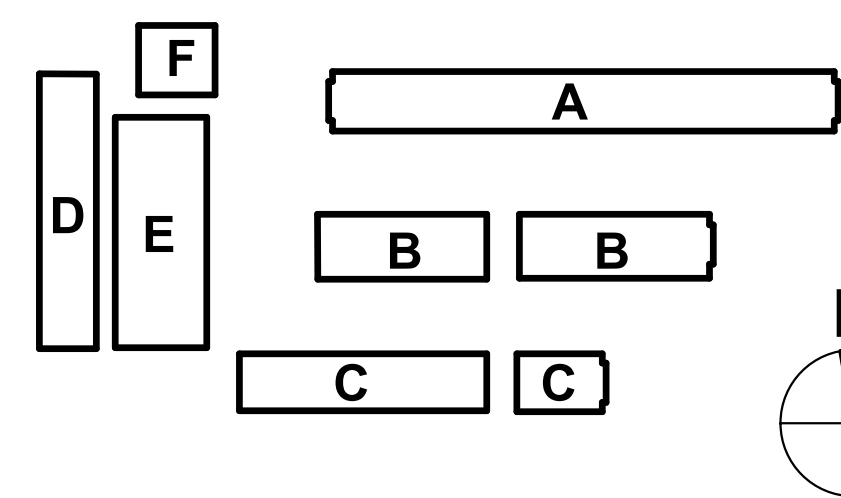
NEW FLOOR PLAN KEYNOTES

- 1 FULL HEIGHT FRAMED MECHANICAL ENCLOSURE. MAINTAIN MIN. INTERIOR CLR. PER DETAIL 16/A9.10. PATCH ADJACENT FINISHES INCLUDING BUT NOT LIMITED TO WALLS AND CEILINGS.
- 2 4' x 6' TACK PANEL. PATCH AND PAINT (E) WALL AT REMOVED TACK PANEL EXTENTS.
- 3 ELECTRICAL PANEL. PROVIDE BACKING, S.E.D.
- 4 TRANSFORMER, S.E.D.
- 5 PATCH OPENING TIGHT TO MECHANICAL WORK, S.M.D. AND SEE DETAIL 6/A9.10.
- 6 PATCH PAVING AT DRY WELL. SEE 6/A9.10 AND S.M.D.
- 7 REFER TO 1/A4.01 FOR TYPICAL REFLECTED CEILING PLAN.
- 8 REFER TO 2/A4.01 FOR TYPICAL REFLECTED CEILING PLAN.
- 9 REFER TO 3/A4.01 FOR TYPICAL REFLECTED CEILING PLAN.
- 10 PATCH AND PAINT GYP. BD CEILING.
- 11 REPLACE GLUE UP CEILING TILE ASSEMBLY REMOVED FOR CONSTRUCTION ACCESS. SCRIBE LAYOUT TIGHT TO STRUCTURE. PAINT CEILING TILES AND STRUCTURE TO MATCH ADJACENT.
- 12 REPLACE GLUE UP CEILING TILES REMOVED FOR CONSTRUCTION ACCESS. SCRIBE LAYOUT TIGHT TO STRUCTURE. PAINT CEILING TILES AND STRUCTURE TO MATCH ADJACENT.
- 13 PATCH AND PAINT CEMENT PLASTER CEILING. SEE DETAIL 18/A9.10, SIM.
- 14 PATCH AND PAINT WALL FINISH, S.M.D.
- 15 MECHANICAL UNIT, S.M.D. PATCH AND PAINT WALL TO MATCH ADJACENT.
- 16 (E) WALL MOUNTED LIGHT FIXTURE AT 9' A.F.F. TO REMAIN. ROUTE DUCTWORK ABOVE LIGHT FIXTURE. SALVAGE AND REINSTALL AS REQUIRED FOR CONSTRUCTION ACCESS.

GRAPHIC KEY

- WALL TYPES:
- EXISTING WALL TO REMAIN.
 - WALL TYPE. REFER TO SHEET A9.10 FOR WALL TYPE DESCRIPTION, TYP.
 - STUD WALL.

BLDG KEY



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PROJECT

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STATE

DSA FILE NUMBER 41-26
APPL # 01-119526

REVISIONS

No.	Description	Date
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MILESTONES

DD	
90% CD	
DSA SUB	05/24/2021
BACKCHECK	10/22/2021

SHEET

NEW FLOOR
PLANS - BLDGS
A, B, & C

DATE

10/22/2021

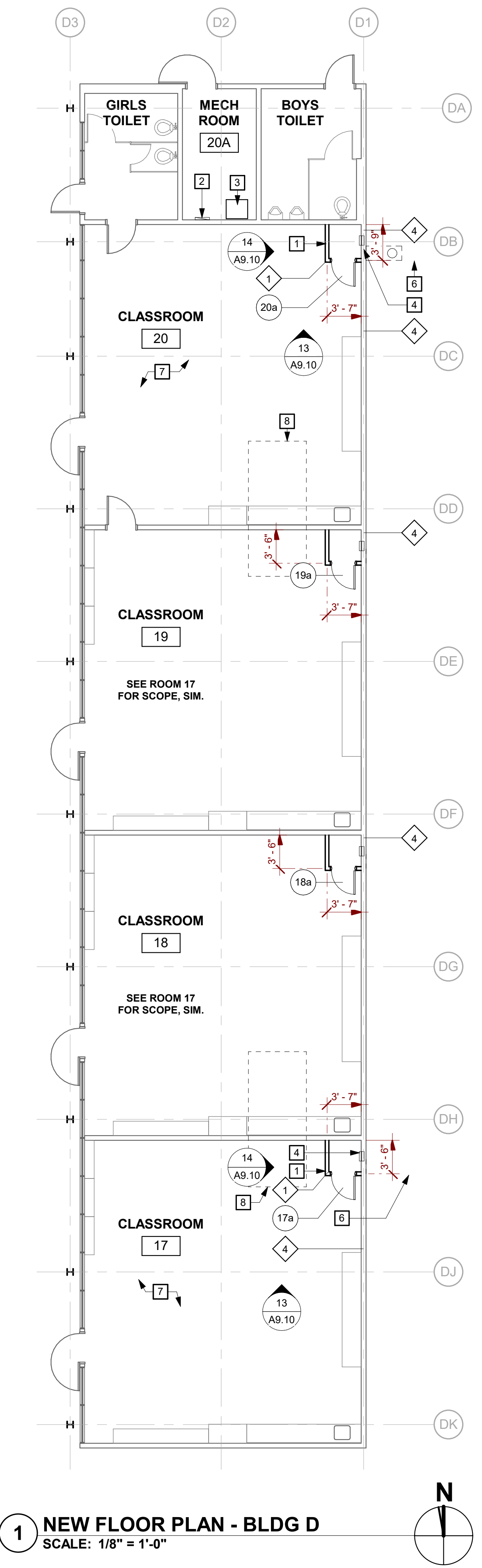
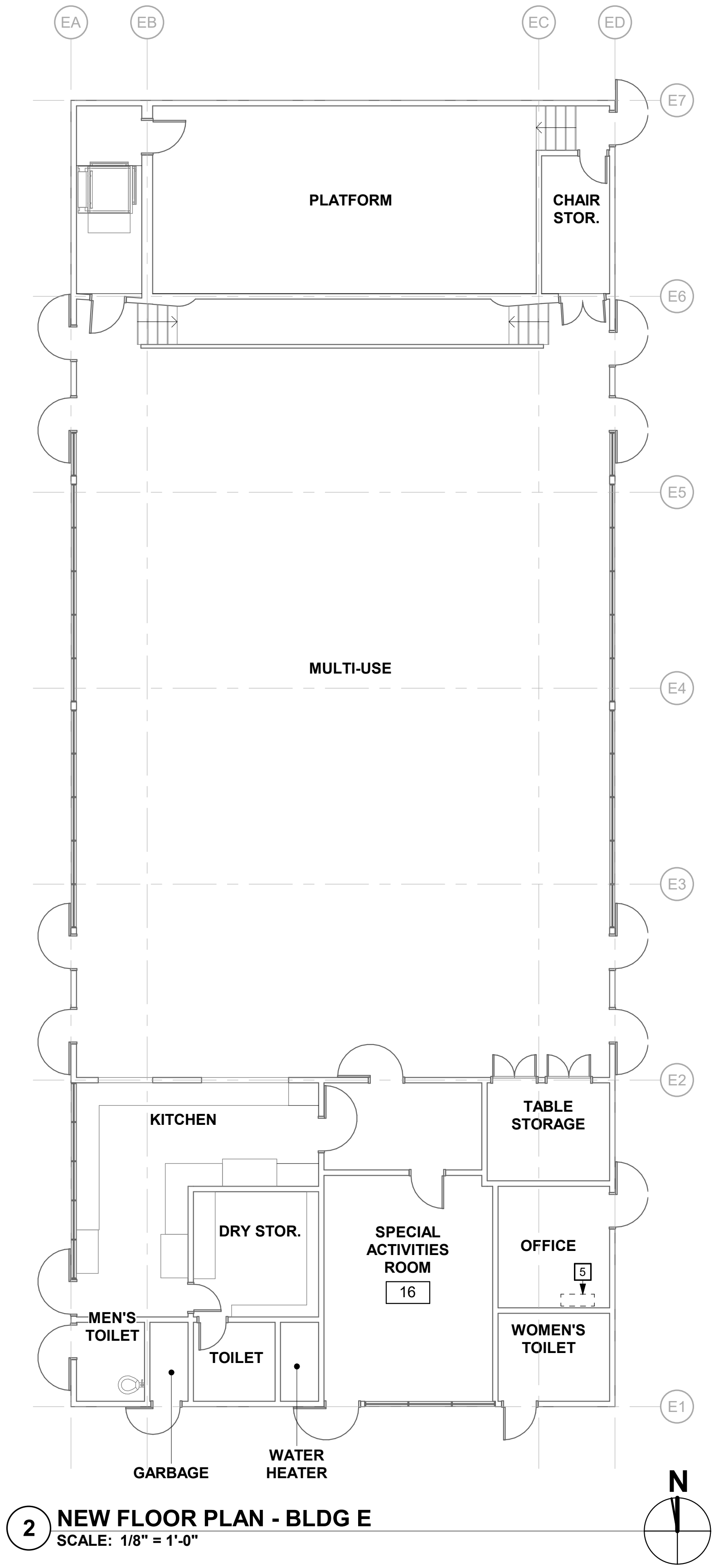
JOB

2021005.05

SHEET

A3.01

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GENERAL SHEET NOTES

- A REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK.
- B DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.
- C PATCH AND PAINT WALL AT REMOVED CASEWORK, REMOVED WALL MOUNTED BOARDS, OR RECONFIGURED RACEWAY.
- D SCRIBE FINISHES TIGHT TO ADJACENT CONDITIONS INCLUDING WALL FINISHES, WINDOWS, AND DUCTWORK.
- E PROVIDE NEW WALL BASE AT ALL REMOVED CASEWORK, NEW PARTITION WALLS, OR PATCHED FLOORING.

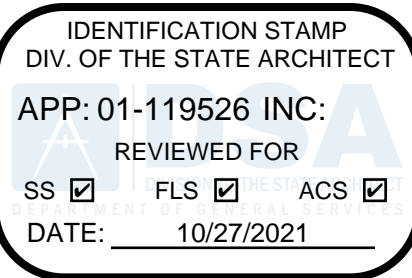
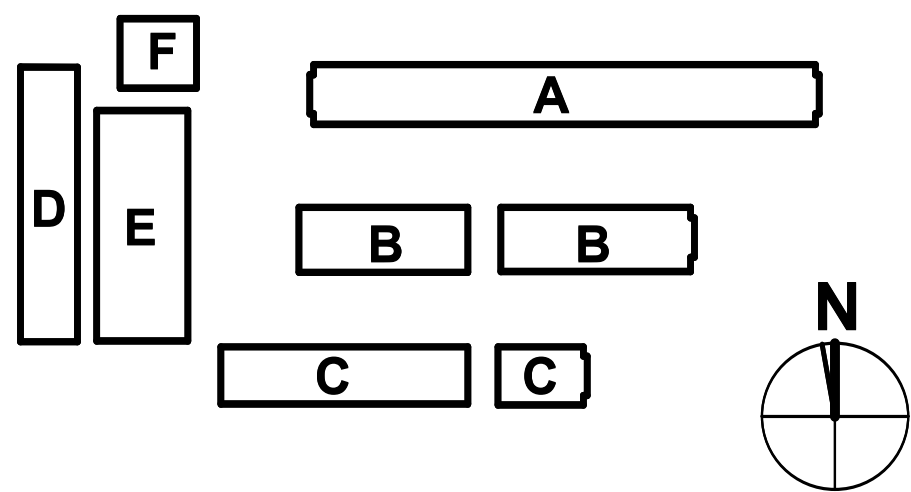
NEW FLOOR PLAN KEYNOTES

- 1 FULL HEIGHT FRAMED MECHANICAL ENCLOSURE. MAINTAIN MIN. INTERIOR CLR. PER DETAIL 16/A9.10. PATCH ADJACENT FINISHES INCLUDING BUT NOT LIMITED TO WALLS AND CEILINGS.
- 2 ELECTRICAL PANEL, PROVIDE BACKING, S.E.D.
- 3 TRANSFORMER, S.E.D.
- 4 PATCH AND PAINT WALL FINISH, S.M.D.
- 5 MECHANICAL UNIT, S.M.D. PATCH AND PAINT WALL TO MATCH ADJACENT.
- 6 PATCH PAVING AT DRY WELL. SEE 6/A9.10 AND S.M.D.
- 7 REFER TO 2/A4.01 FOR TYPICAL REFLECTED CEILING PLAN
- 8 REPLACE GLUE UP CEILING TILE ASSEMBLY REMOVED FOR CONSTRUCTION ACCESS. SCRIBE LAYOUT TIGHT TO STRUCTURE. PAINT CEILING TILES AND STRUCTURE TO MATCH ADJACENT.

GRAPHIC KEY

- WALL TYPES:
- EXISTING WALL TO REMAIN.
- WALL TYPE. REFER TO SHEET A9.10 FOR WALL TYPE DESCRIPTION, TYP.
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MILESTONES

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DSA SUB	05/24/2021
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SHEET

NEW FLOOR
PLANS - BLDGS
D & E

DATE 10/22/2021

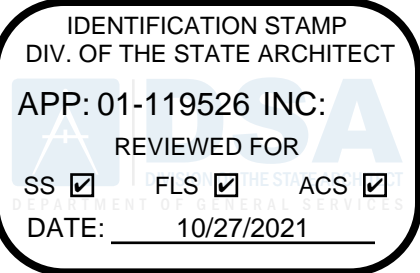
JOB # 2021005.05

SHEET #

A3.02

GENERAL SHEET NOTES

- A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW PLANS.
- B REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK.
- C REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.
- D PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.



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REVISIONS

No. Description Date

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MILESTONES

DD
90% CD
DSA SUB 05/24/2021
BACKCHECK 10/22/2021

SHEET

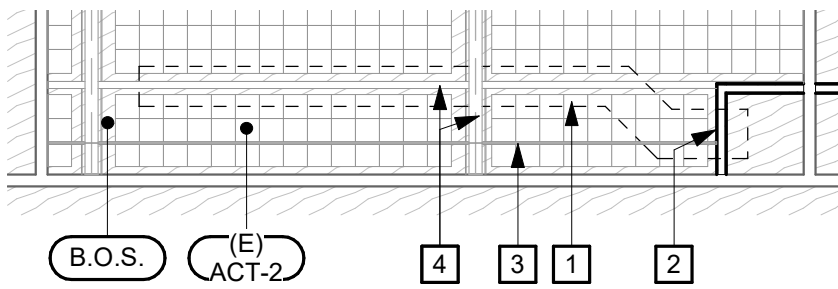
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CEILING PLANS

DATE 10/22/2021

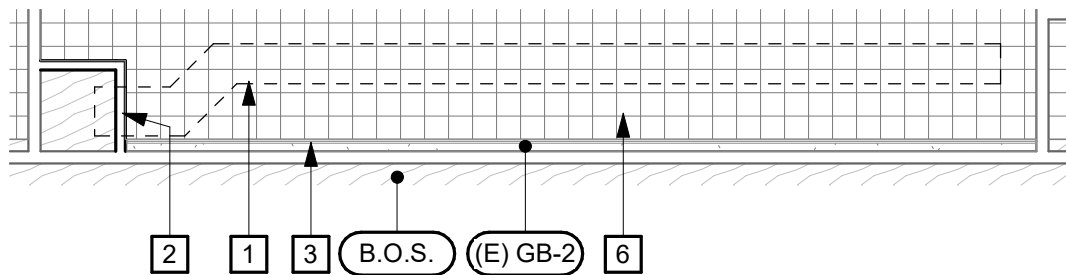
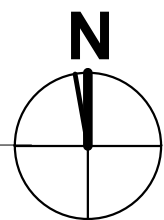
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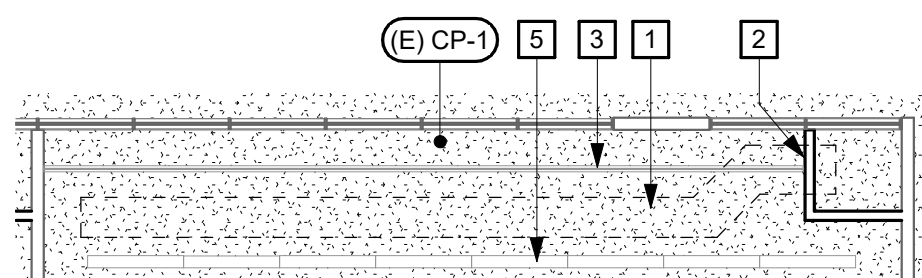
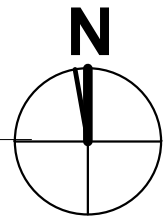
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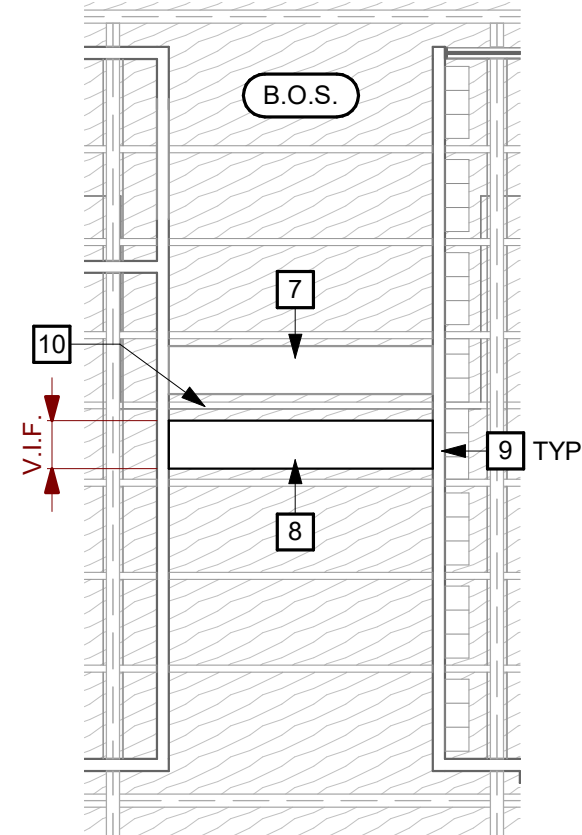
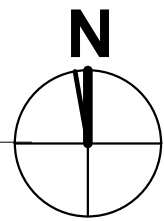
1 TYP. NEW REFLECTED CEILING PLAN @ EXPOSED STRUCTURE
SCALE: 1/8" = 1'-0"



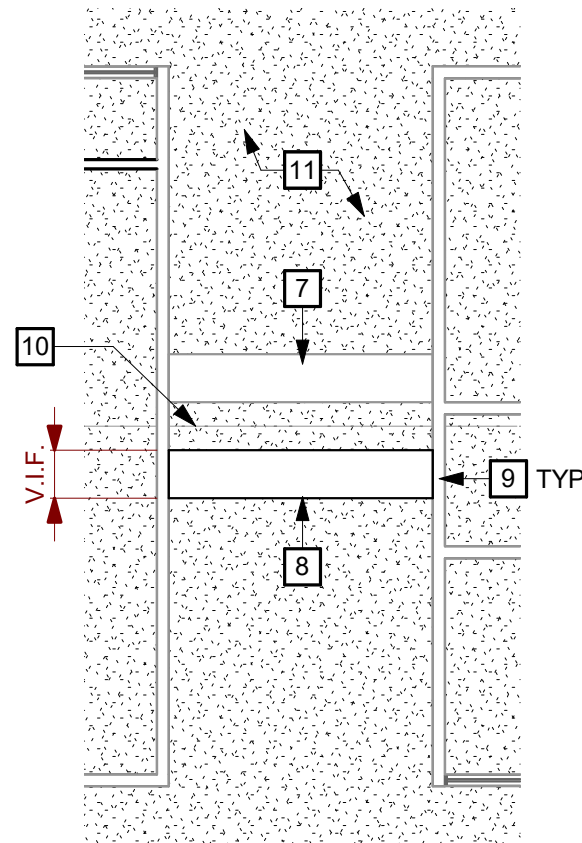
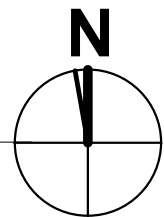
2 TYP. REFLECTED CEILING PLAN @ HARDLID
SCALE: 1/8" = 1'-0"



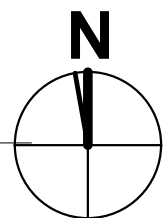
3 TYP. REFLECTED CEILING PLAN @ CEMENT PLASTER
SCALE: 1/8" = 1'-0"



4 NEW REFLECTED PLAN - TYPICAL EXT.
WALKWAY @ EXPOSED STRUCTURE
SCALE: 1/8" = 1'-0"

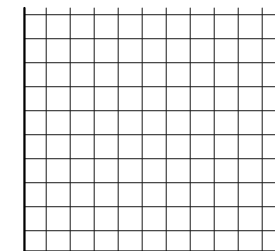


5 NEW REFLECTED PLAN - TYPICAL EXT.
WALKWAY @ CEMENT PLASTER
SCALE: 1/8" = 1'-0"

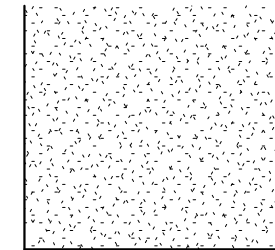


GRAPHIC KEY

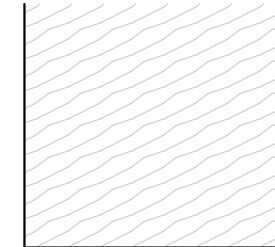
(E) 12" x 12" GLUE UP CEILING TILES



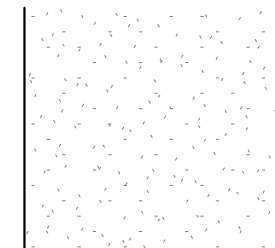
(E) CEMENT PLASTER SOFFIT



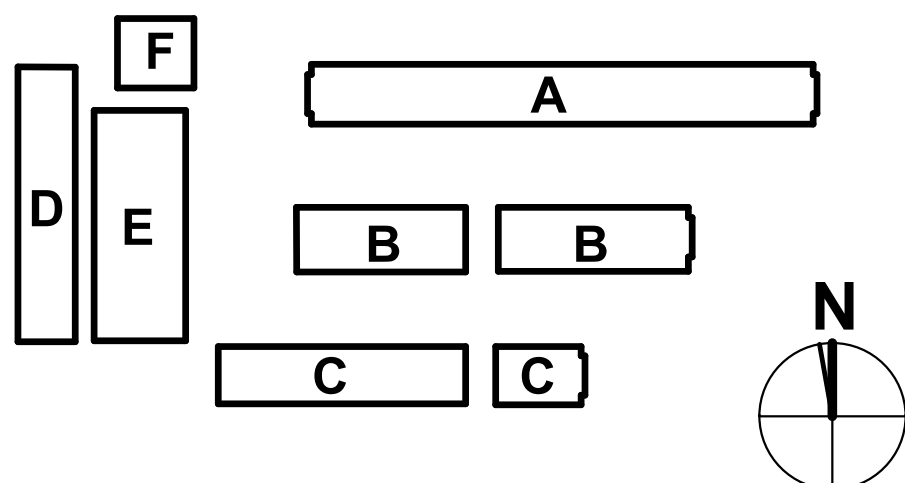
(E) WOOD, UNDERSIDE OF ROOF

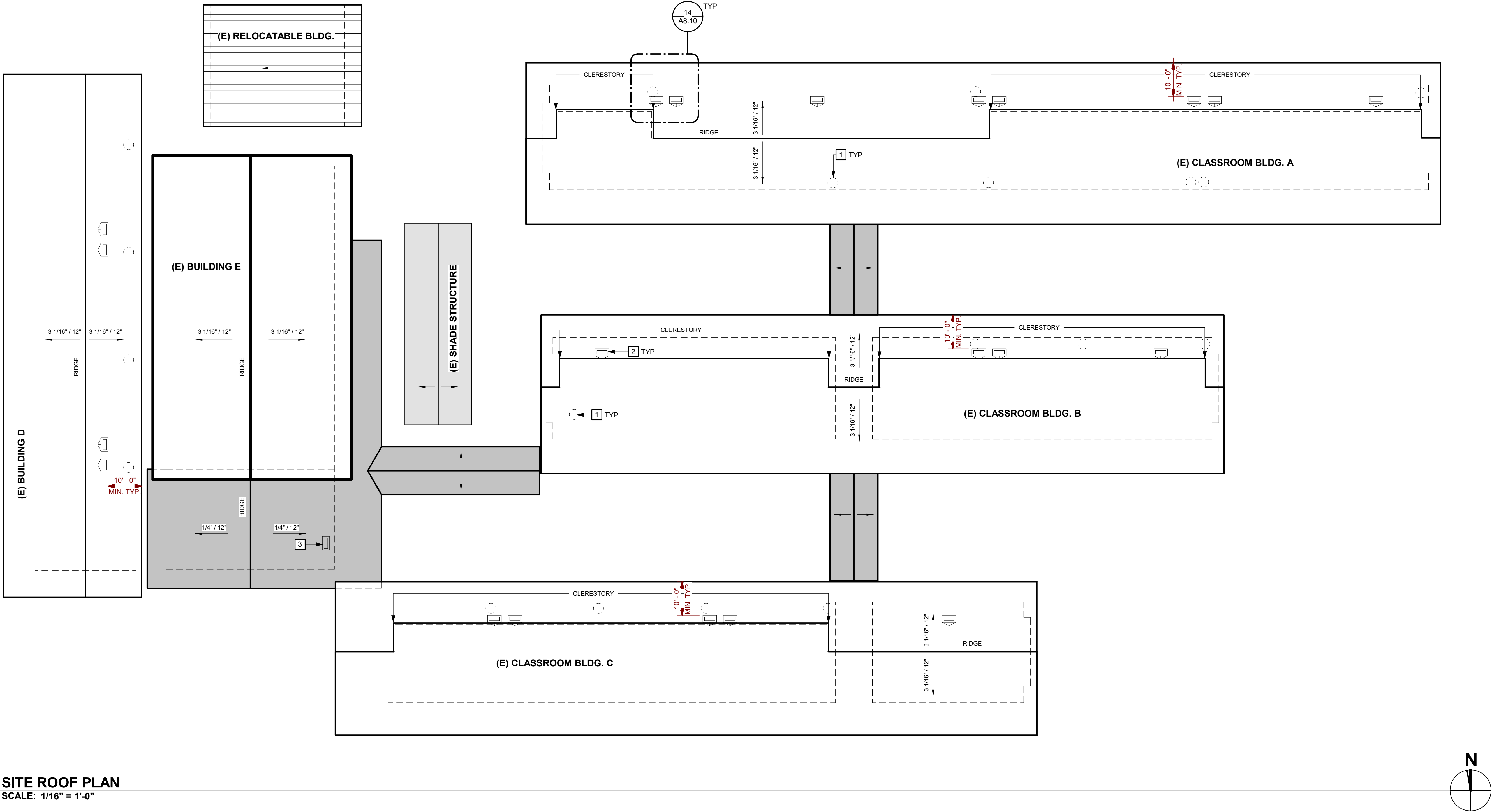


GYPSUM BOARD CEILING OR SOFFIT



BLDG KEY



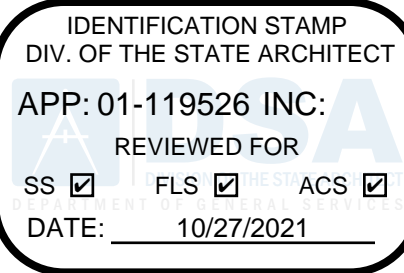


GENERAL SHEET NOTES

- A REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL WORK.
- B SIZE OF MECHANICAL EQUIPMENT PADS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY REQUIRED PAD DIMENSION WITH EQUIPMENT MANUFACTURER.

ROOF PLAN KEYNOTES

- 1 PATCH (E) PENETRATION AT REMOVED FLUE AND COMBUSTION AIR INTAKE AND PATCH (N) PENETRATIONS. S.M.D. AND SEE DETAIL 17/A8.10
- 2 MECHANICAL UNIT ON PLATFORM WITH CRICKET. S.M.D. AND SEE DETAIL 10/A8.10
- 3 MECHANICAL UNIT ON PLATFORM. S.M.D. AND SEE DETAIL 19/A8.10.



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PROJECT

**NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT**

**SAN MATEO-FOSTER CITY
SCHOOL DISTRICT**

CONSULTANT

STAMP



STATE

DSA FILE NUMBER **41-26**
APPL # **01-119526**

REVISIONS

No. Description Date



MILESTONES

DD
90% CD
DSA SUB **05/24/2021**
BACKCHECK **10/22/2021**

SHEET

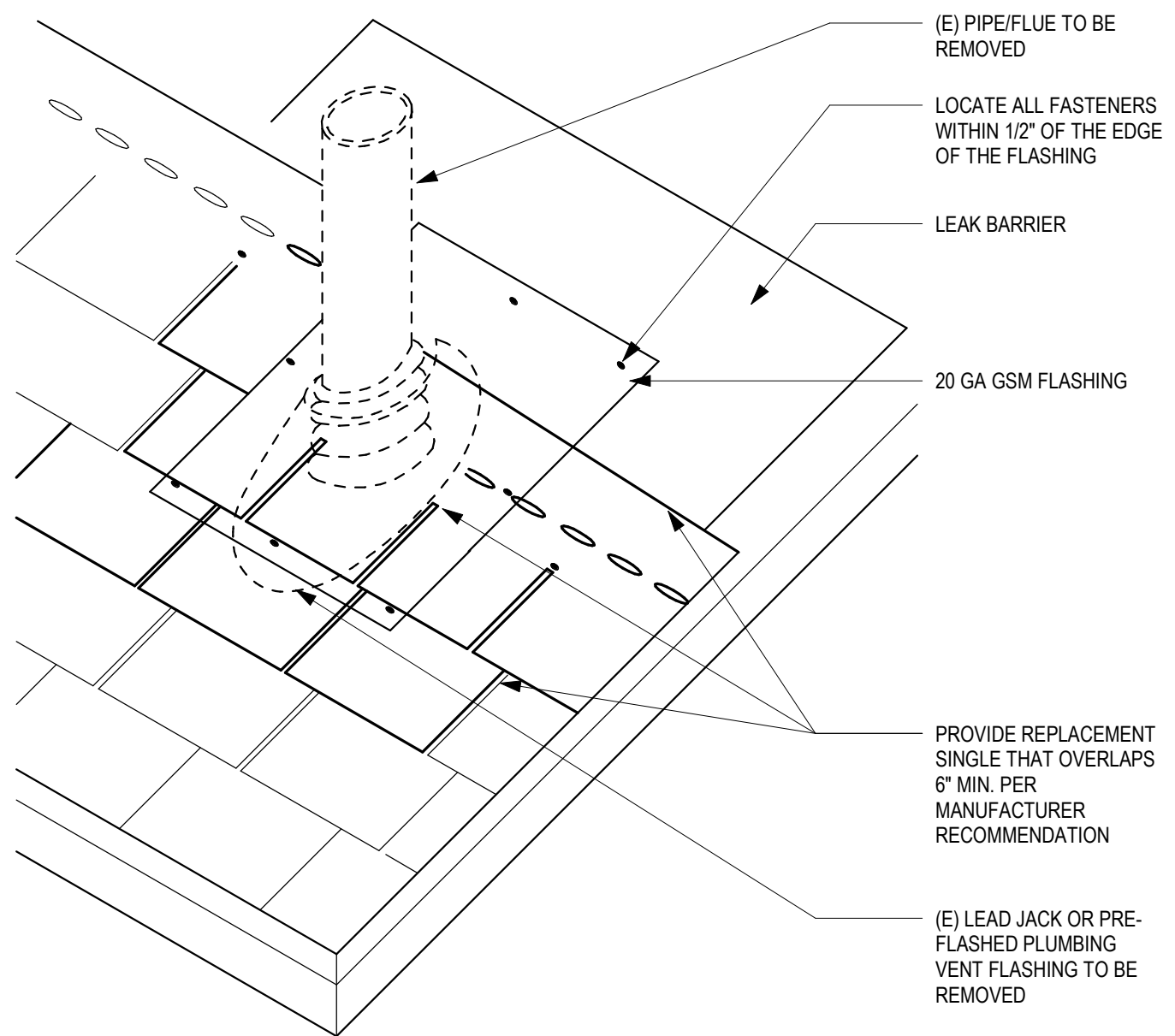
SITE ROOF PLAN

DATE **10/22/2021**

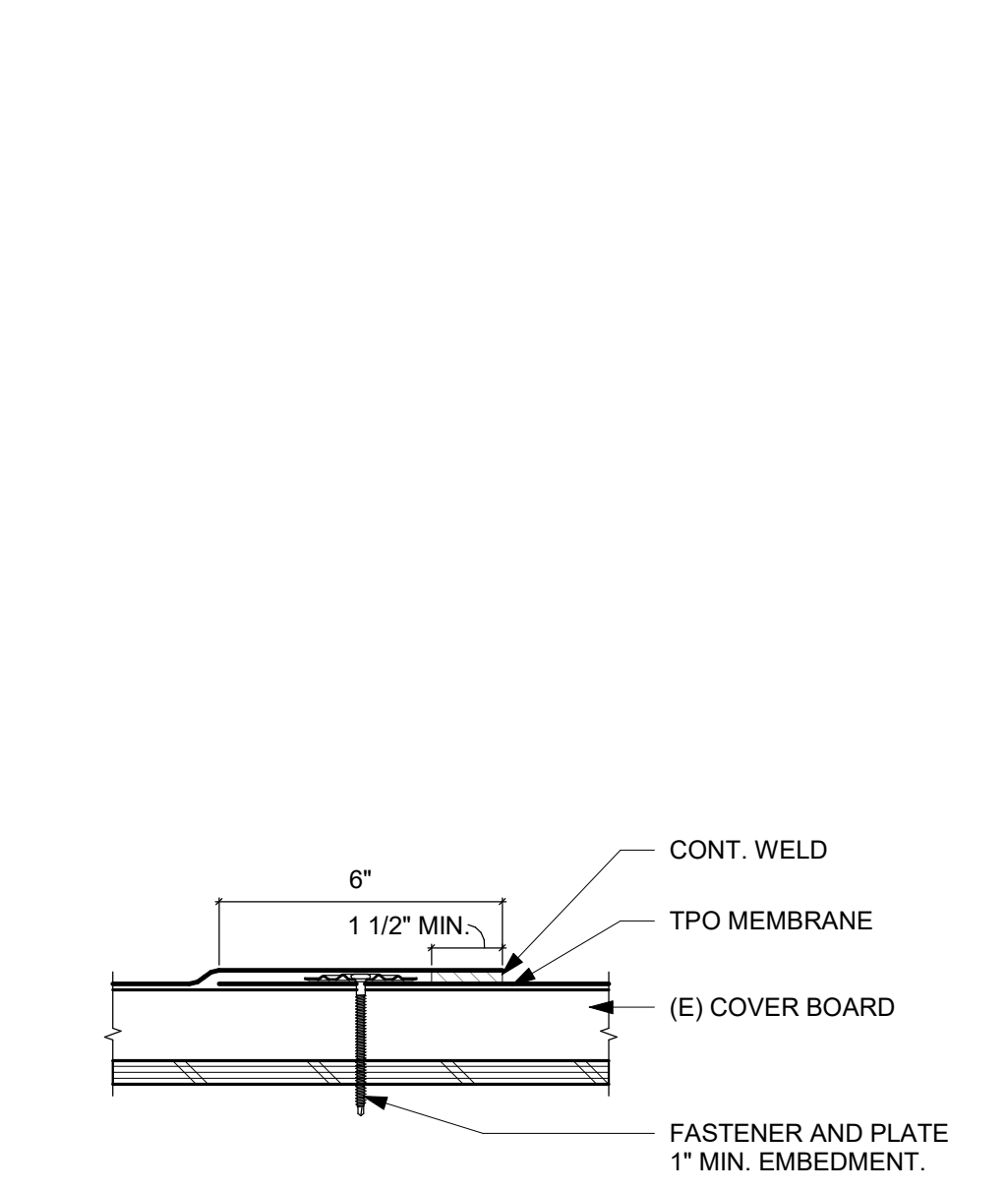
JOB # **2021005.05**

SHEET #

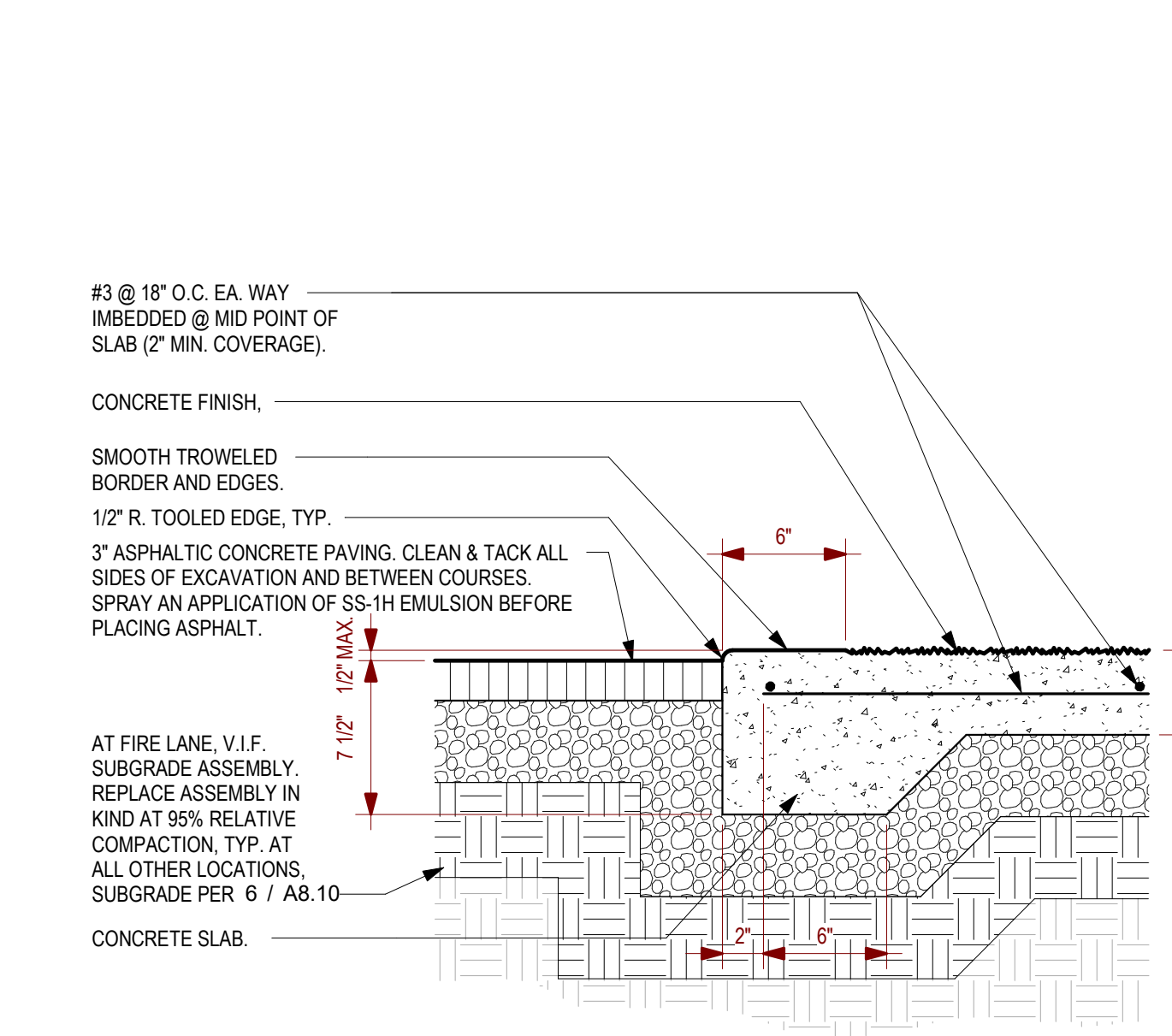
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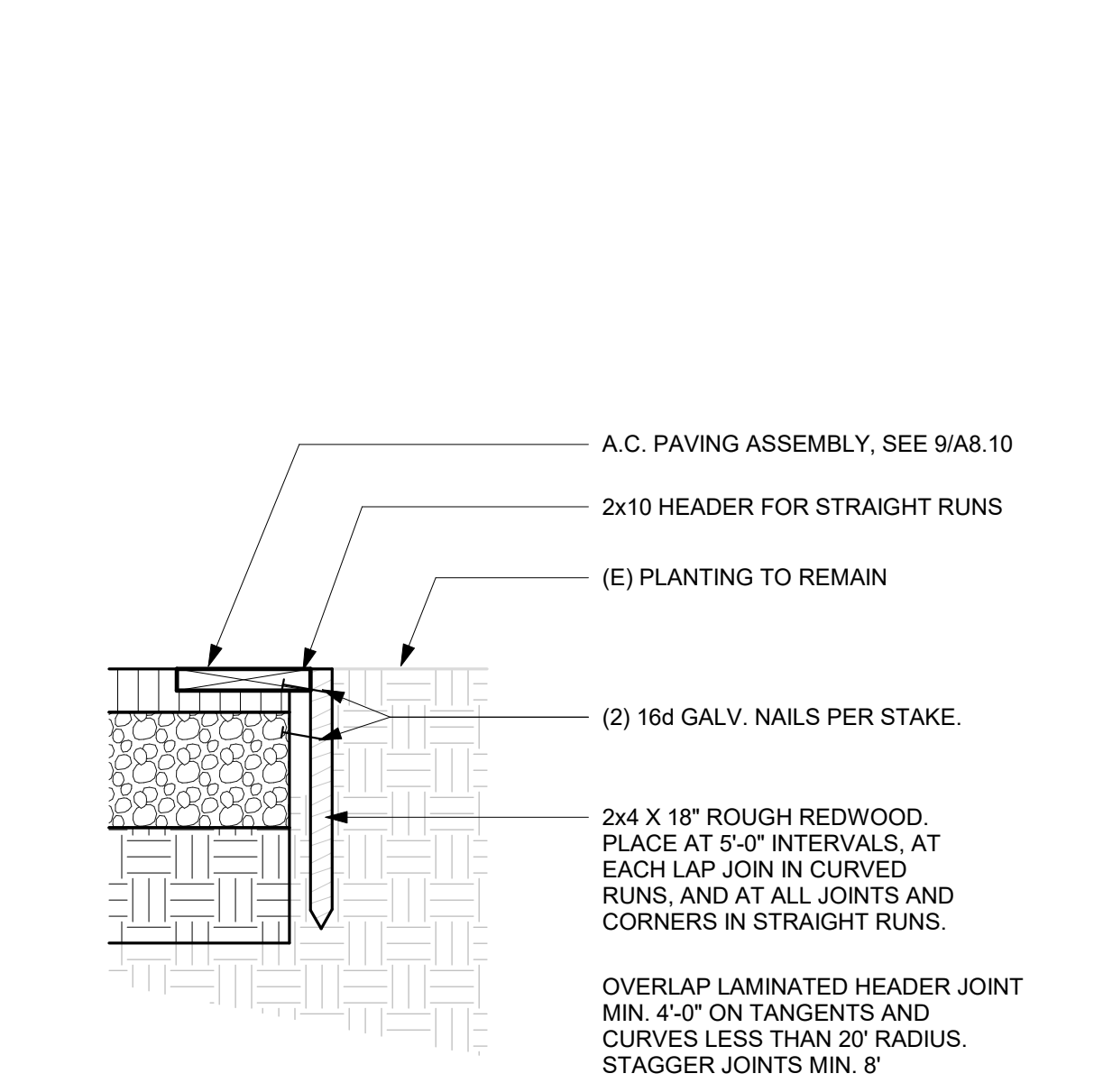
17 ROOF PATCH AT REMOVED PIPES
SCALE: 3" = 1'-0"



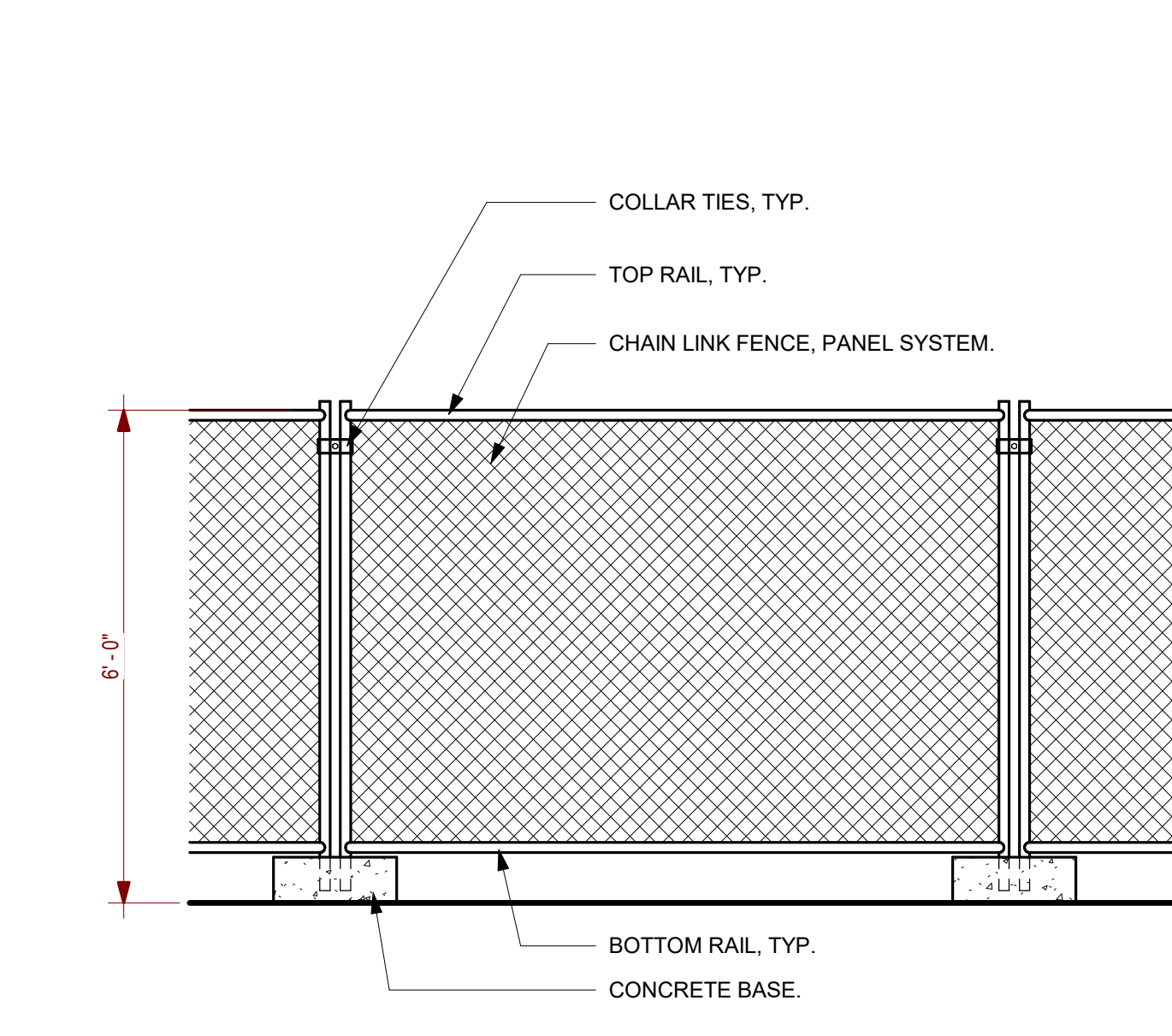
13 SINGLE PLY ROOFING PATCH EDGE
SCALE: 3" = 1'-0"



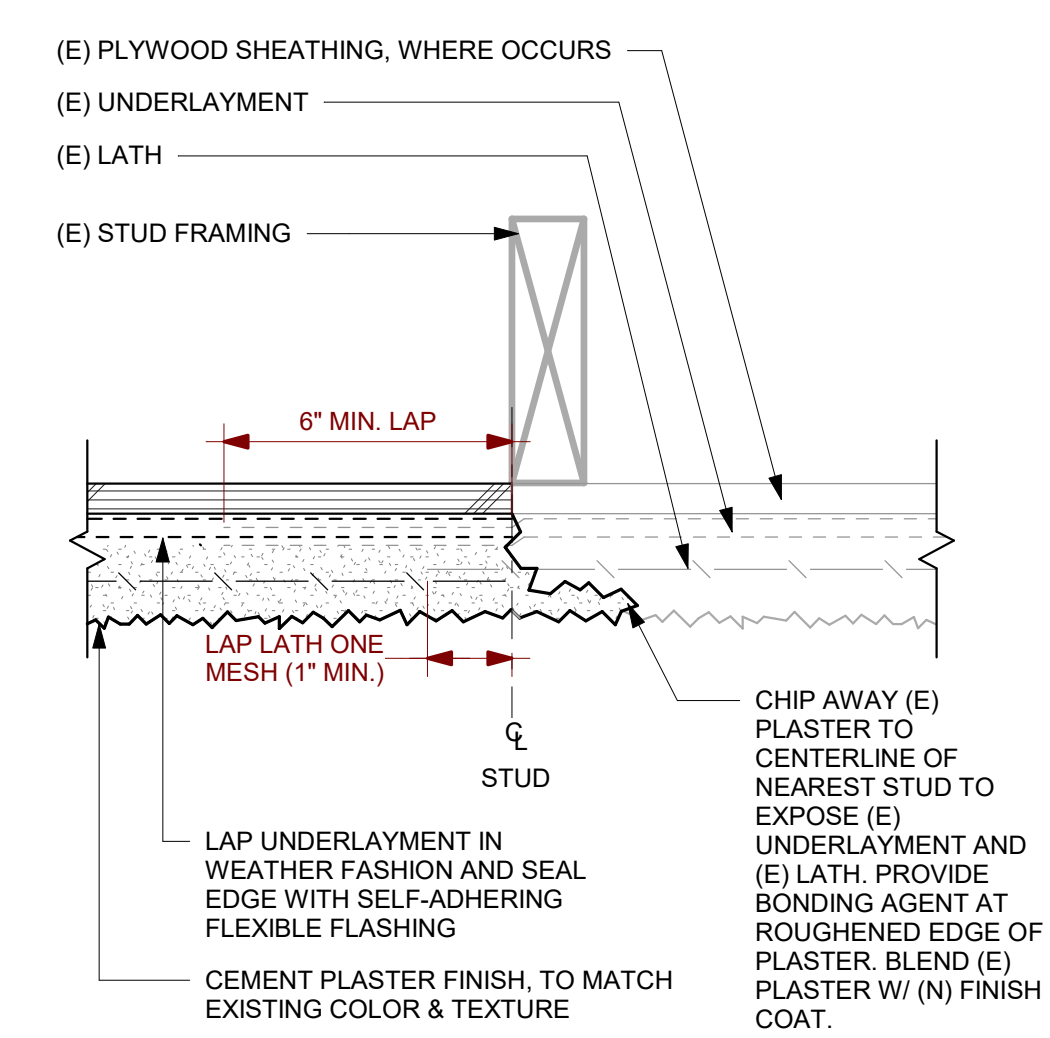
9 ASPHALT/CONCRETE JOINT
SCALE: 1 1/2" = 1'-0"



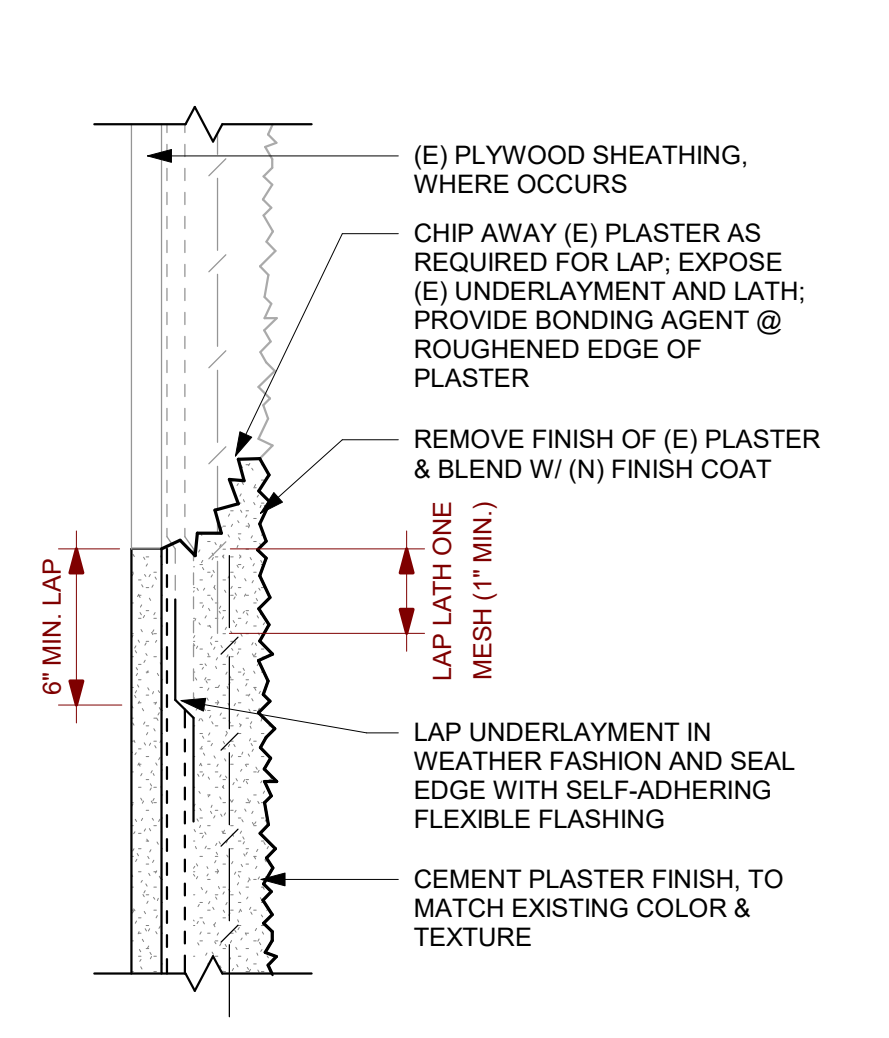
5 EDGE OF ASPHALT PAVING
SCALE: 1" = 1'-0"



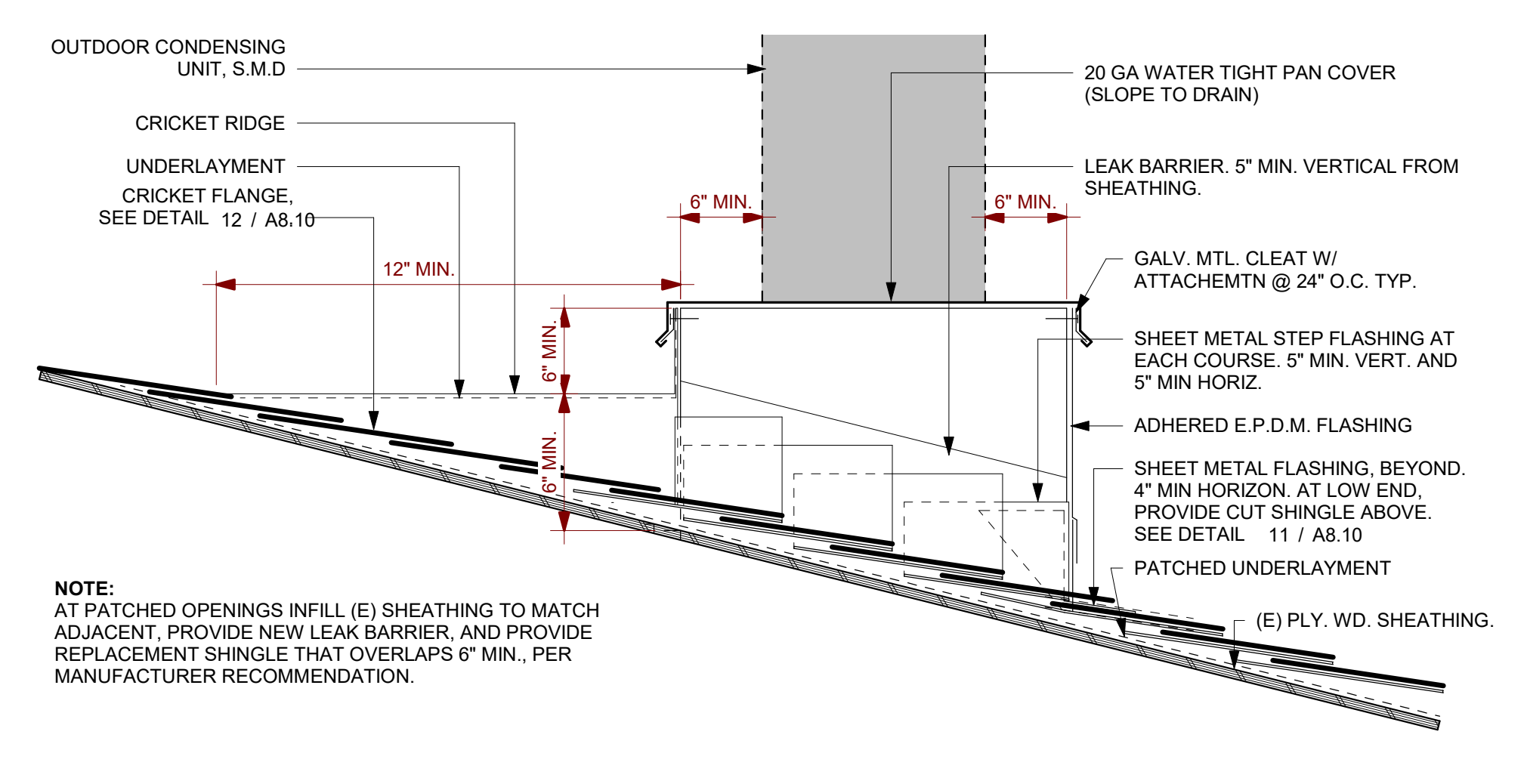
1 REQ'D TEMPORARY CONSTRUCTION FENCE
SCALE: 1/2" = 1'-0"



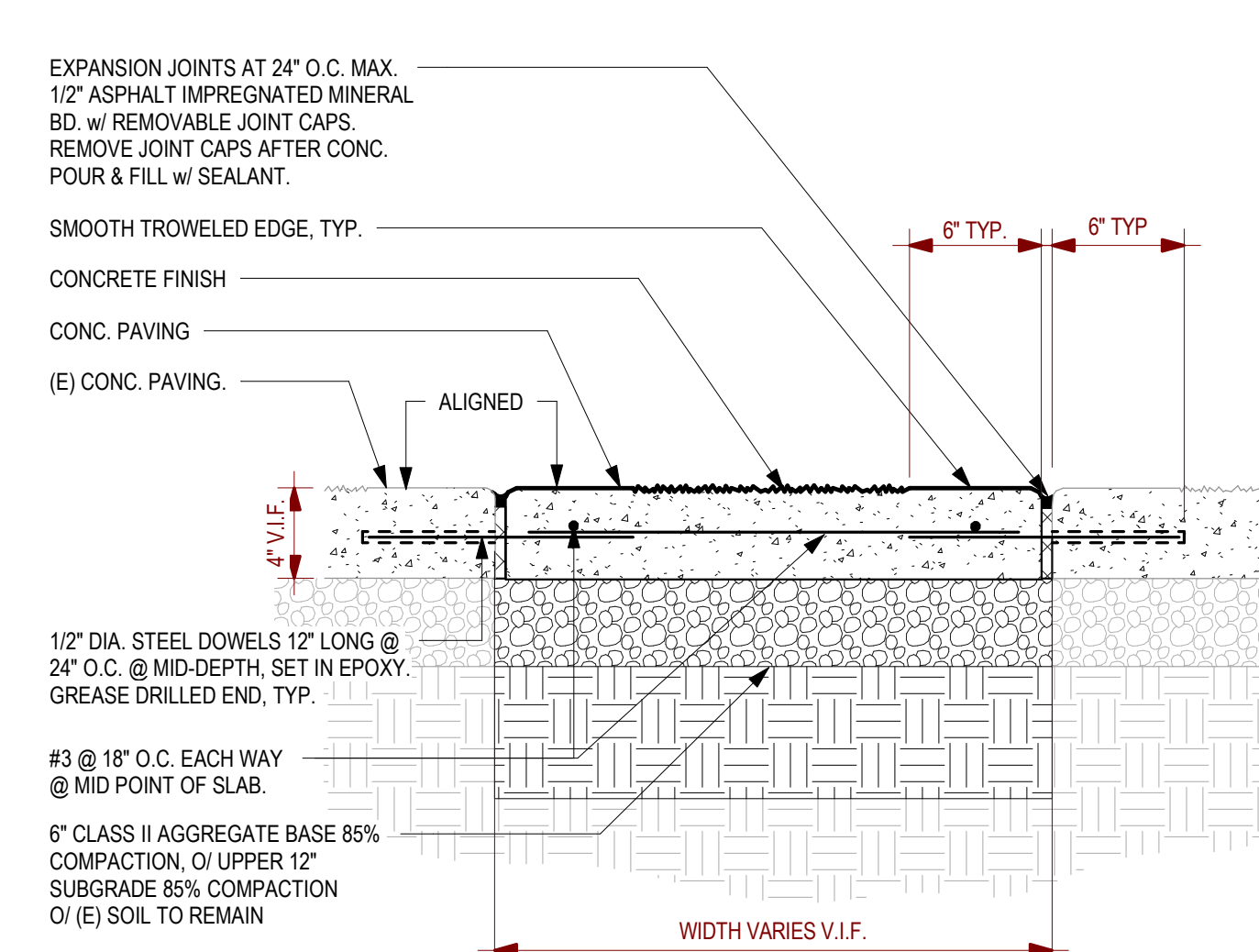
18 CEMENT PLASTER PATCHING
SCALE: 3" = 1'-0"



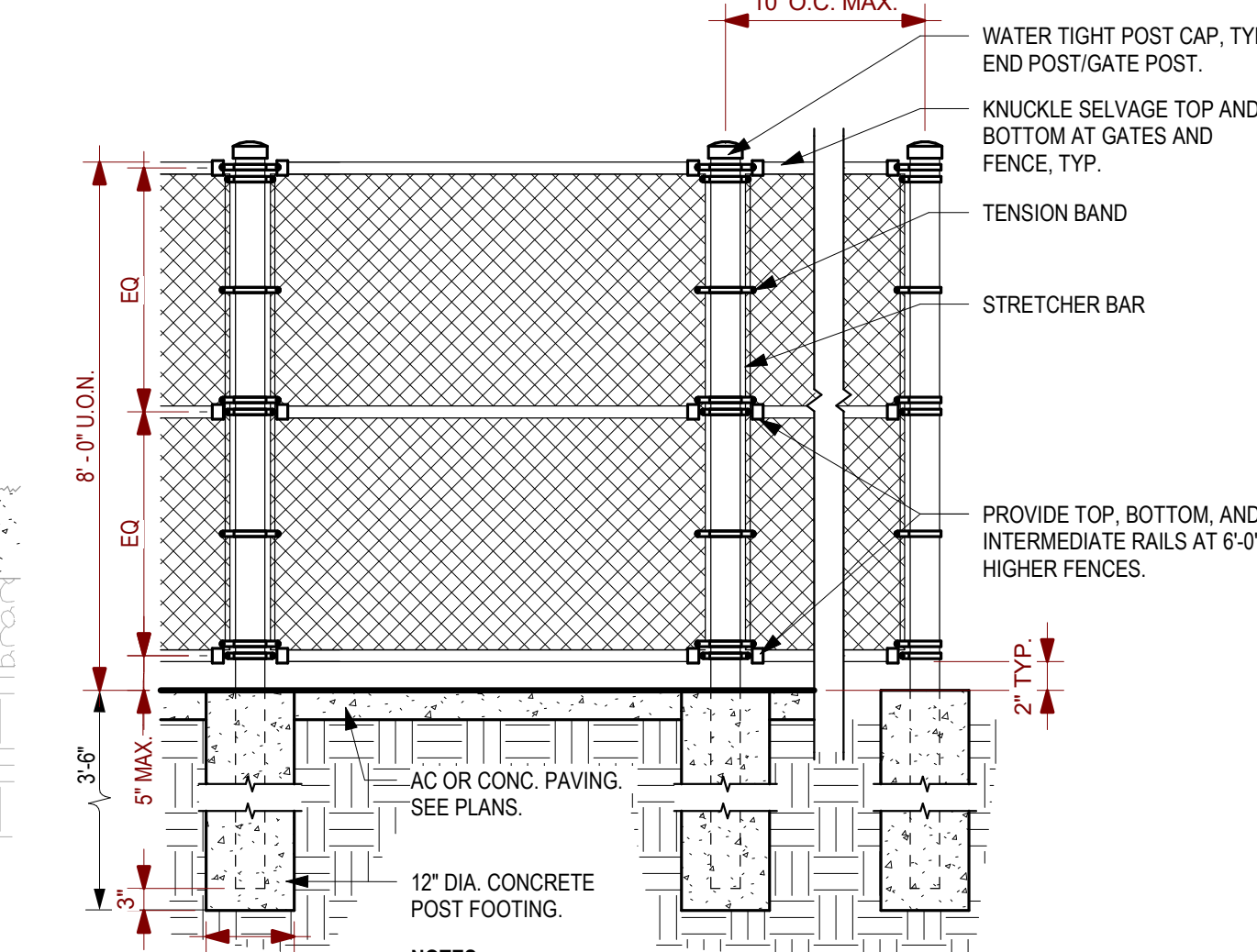
SECTION AT HORIZONTAL PATCH



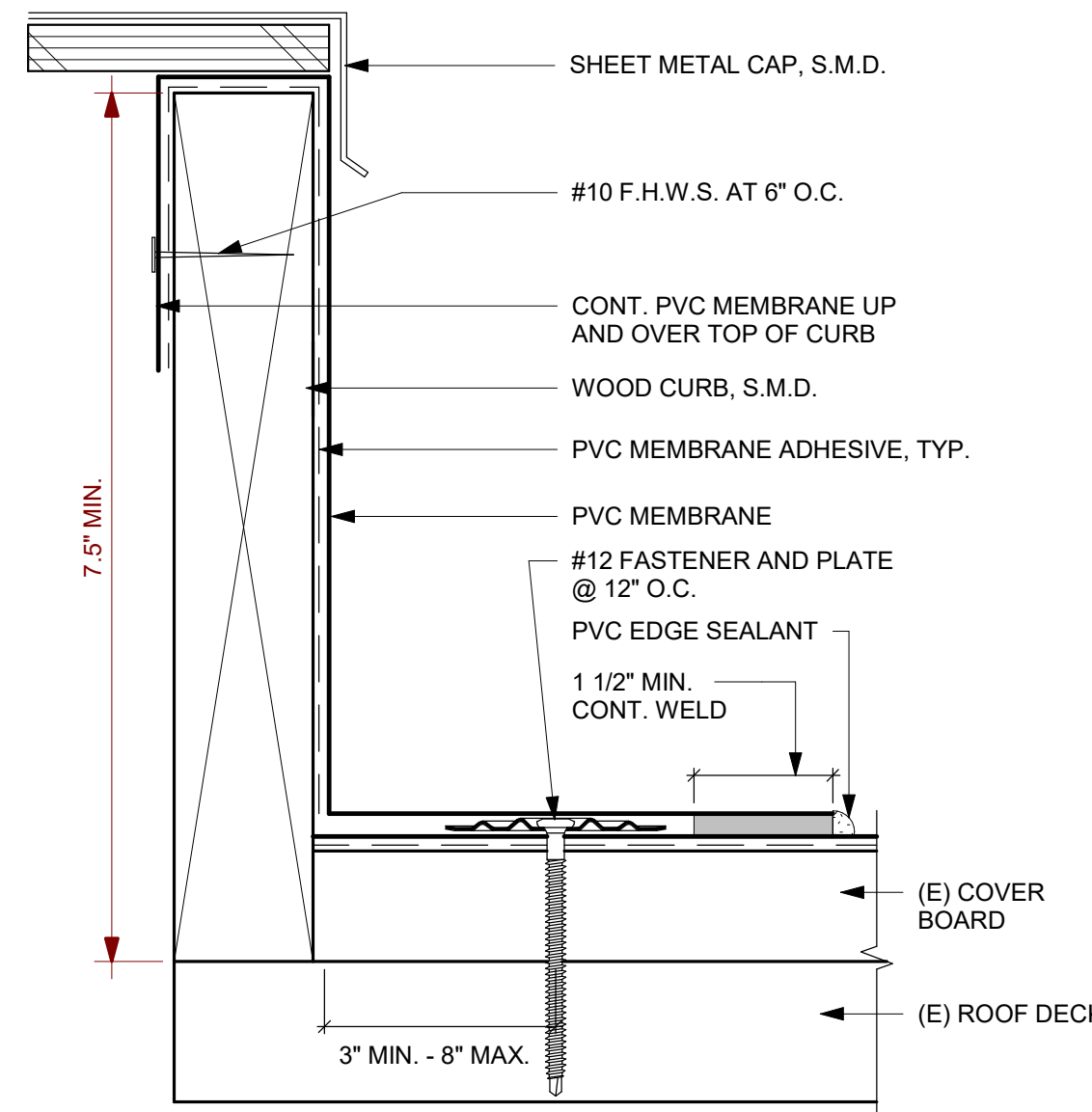
10 SHINGLE SIDE FLASHING
SCALE: 1 1/2" = 1'-0"



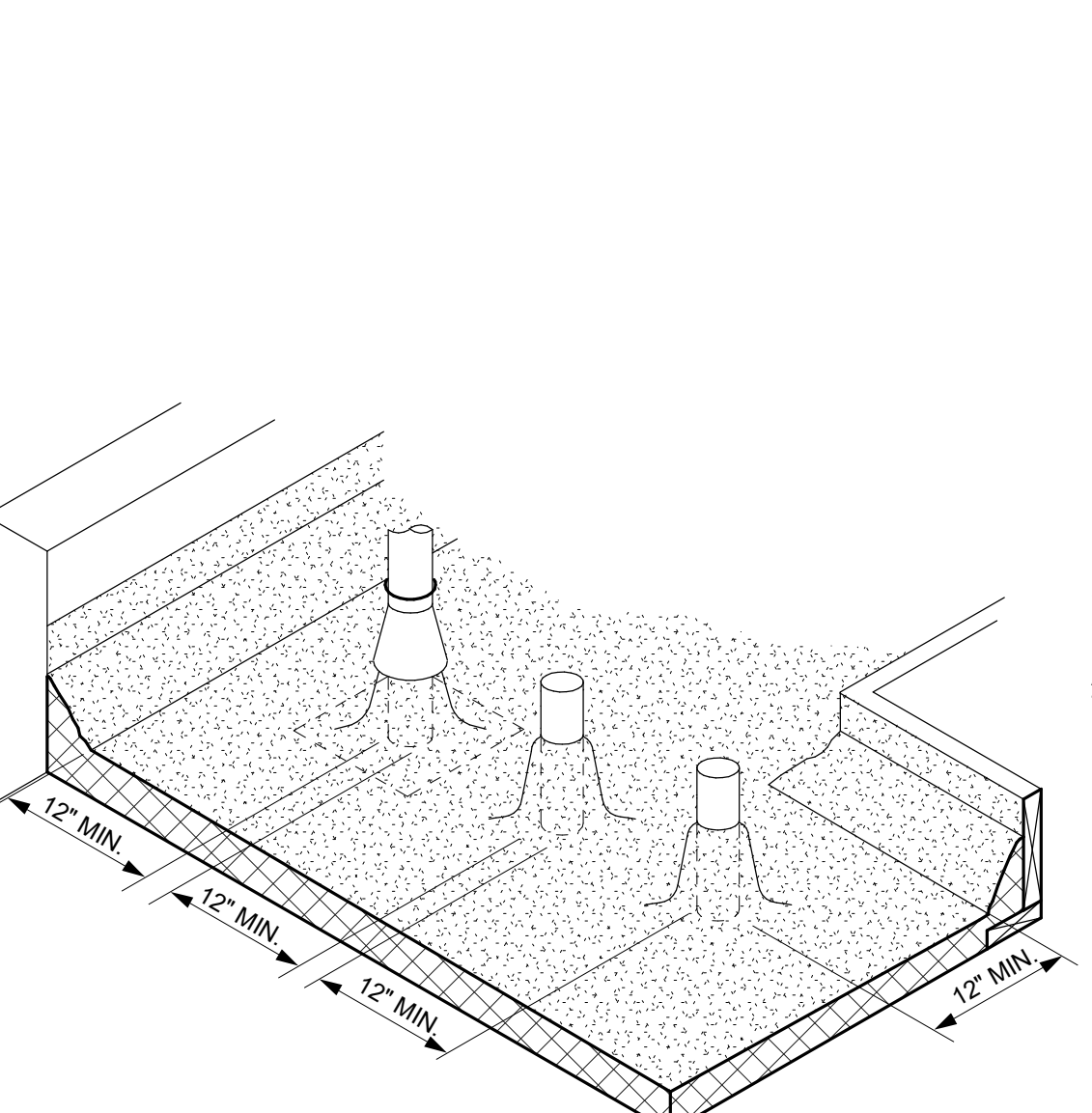
6 CONCRETE PATCH
SCALE: 1 1/2" = 1'-0"



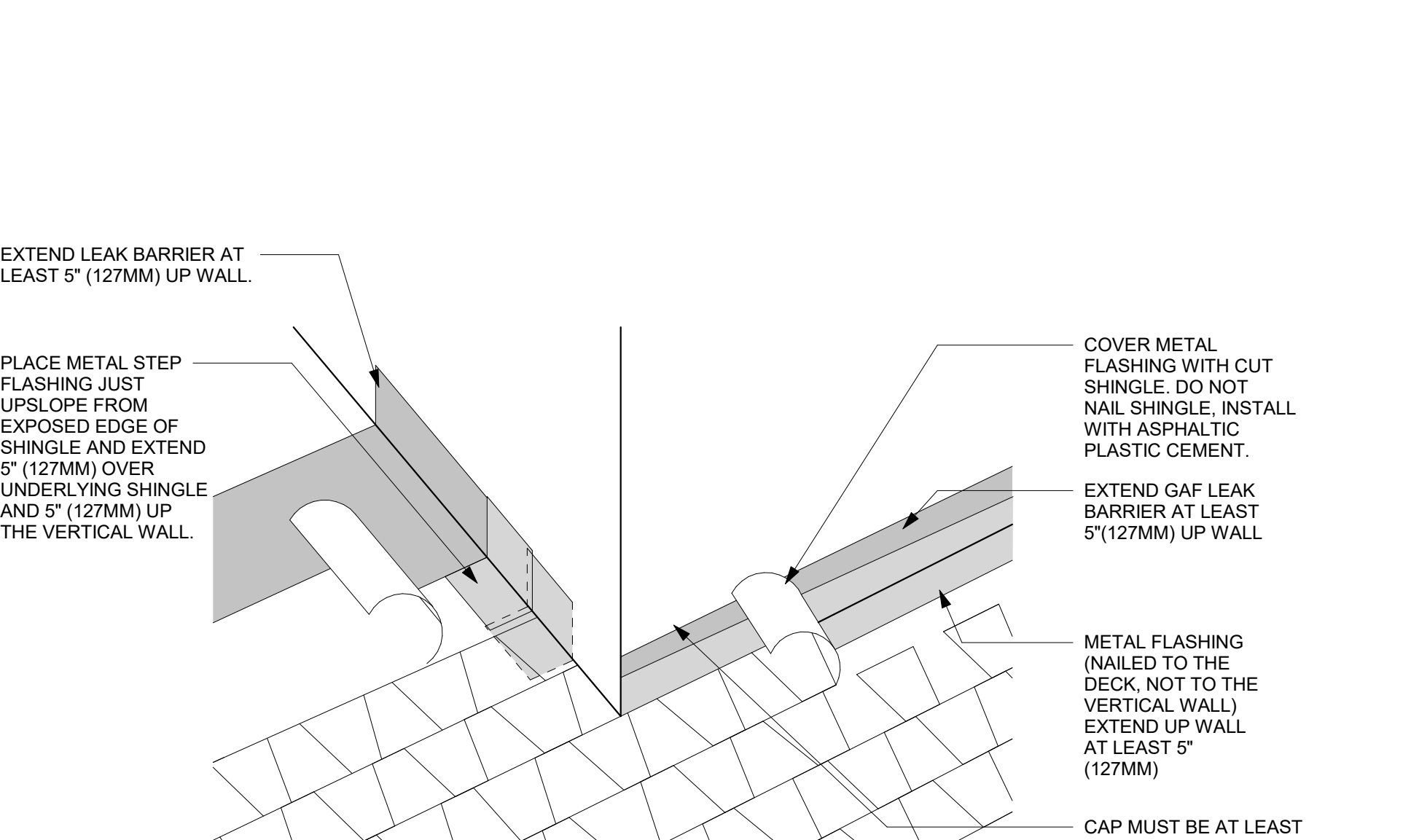
2 TYPICAL CHAINLINK ELEVATION
SCALE: 1/2" = 1'-0"



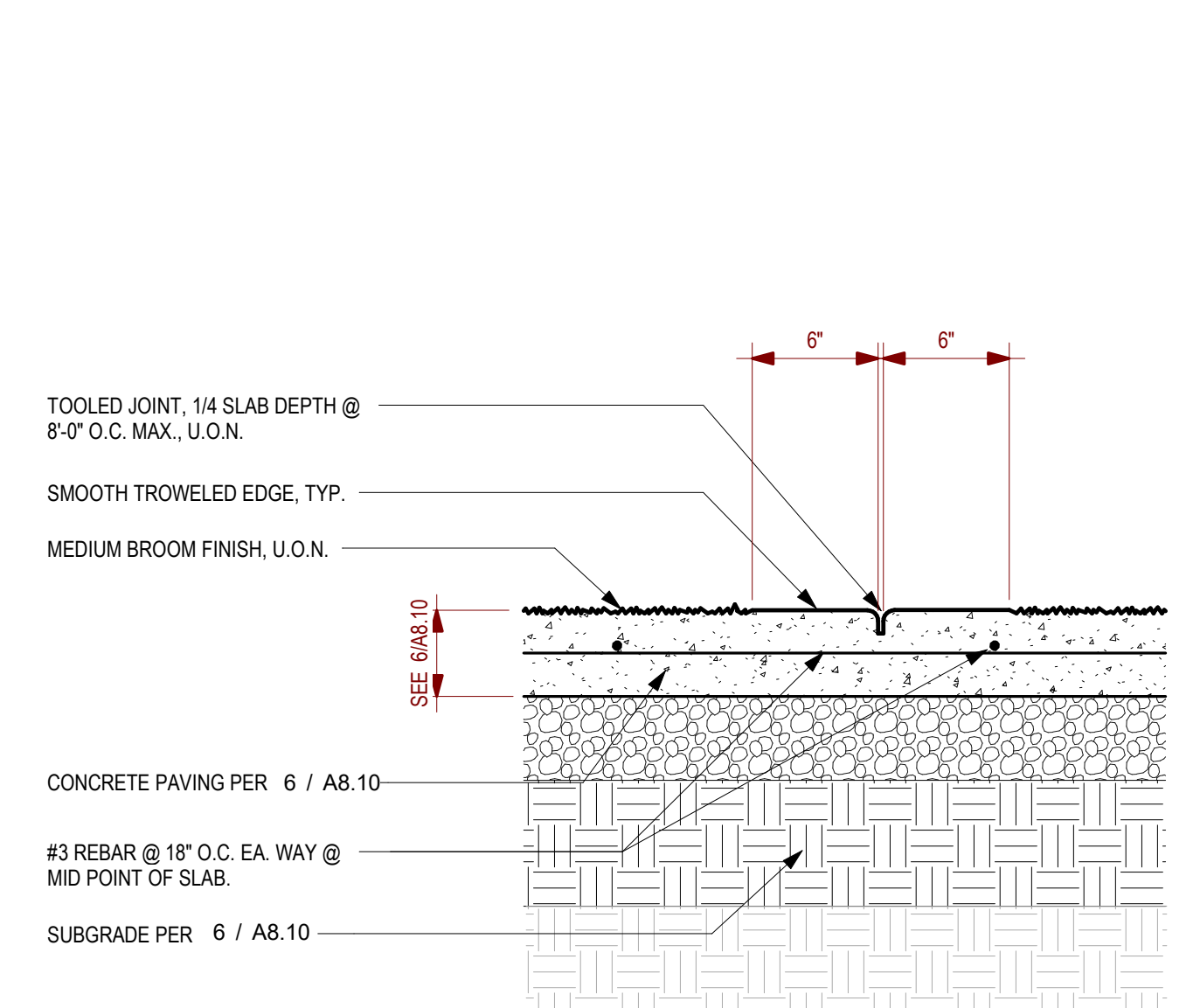
19 SINGLE PLY CURB FLASHING
SCALE: 6" = 1'-0"



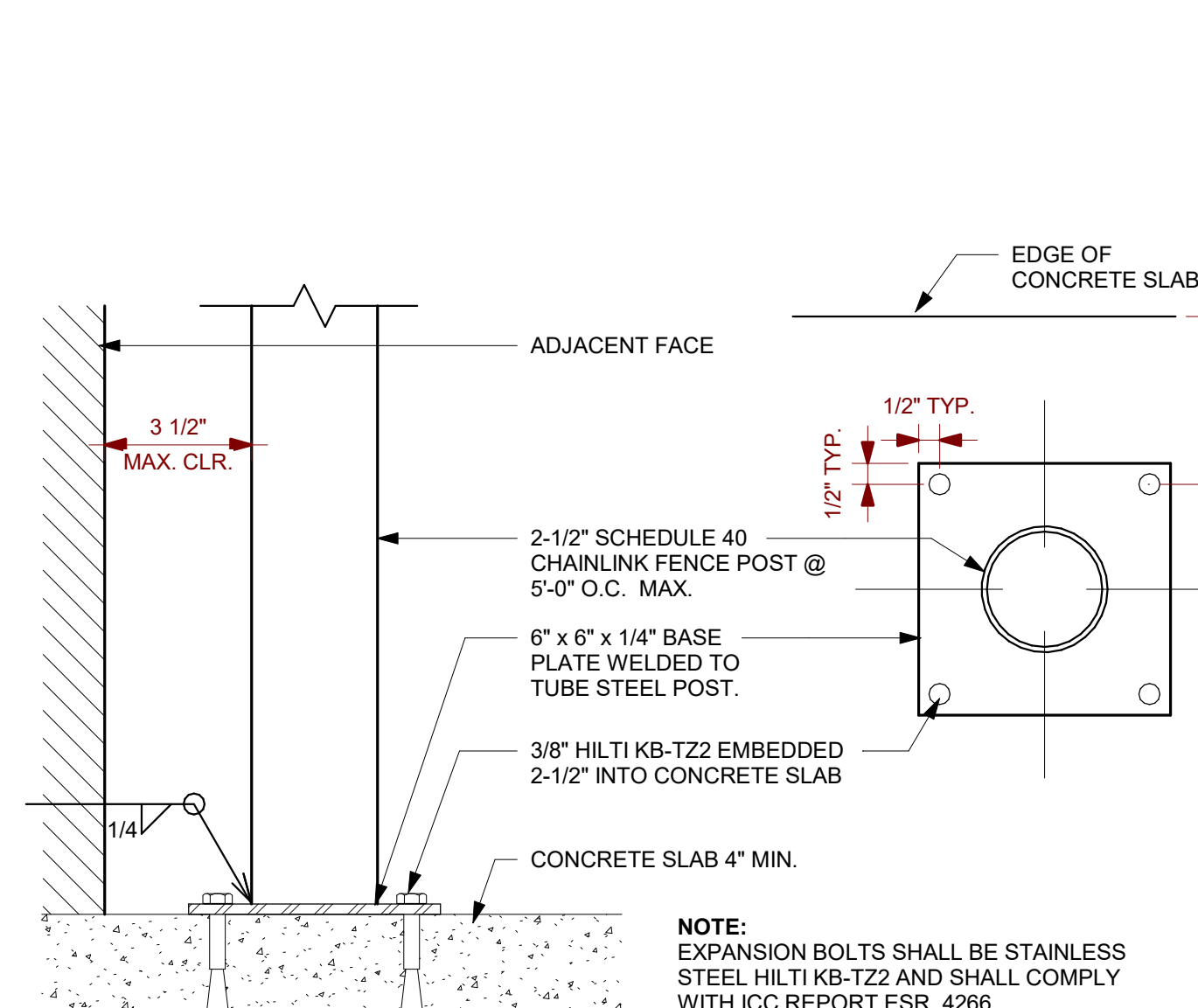
15 CLEARANCES BETWEEN PIPES, WALLS & CURBS
SCALE: 1" = 1'-0"



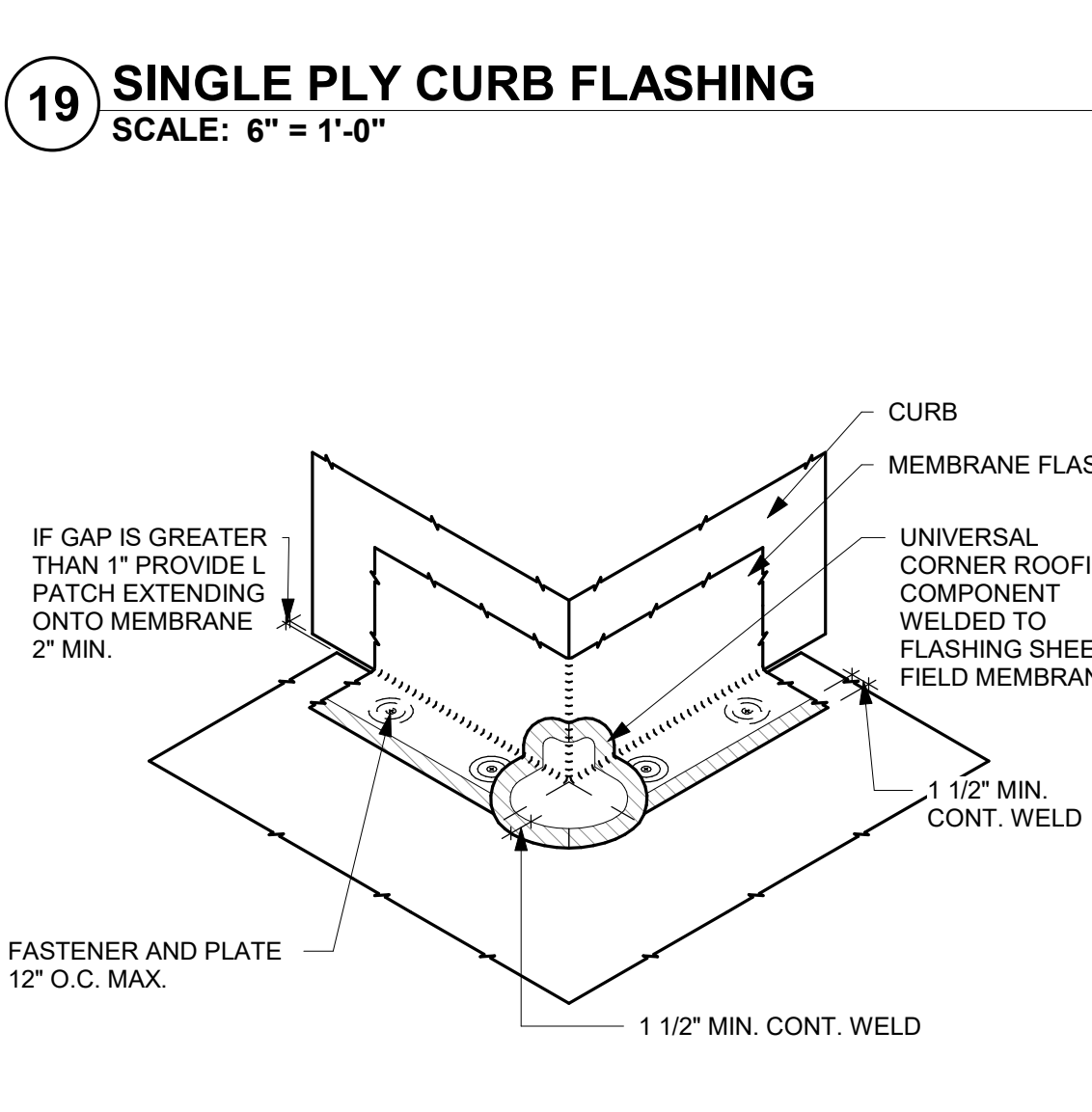
11 SHINGLE LOWER FLASHING
SCALE: 1" = 1'-0"



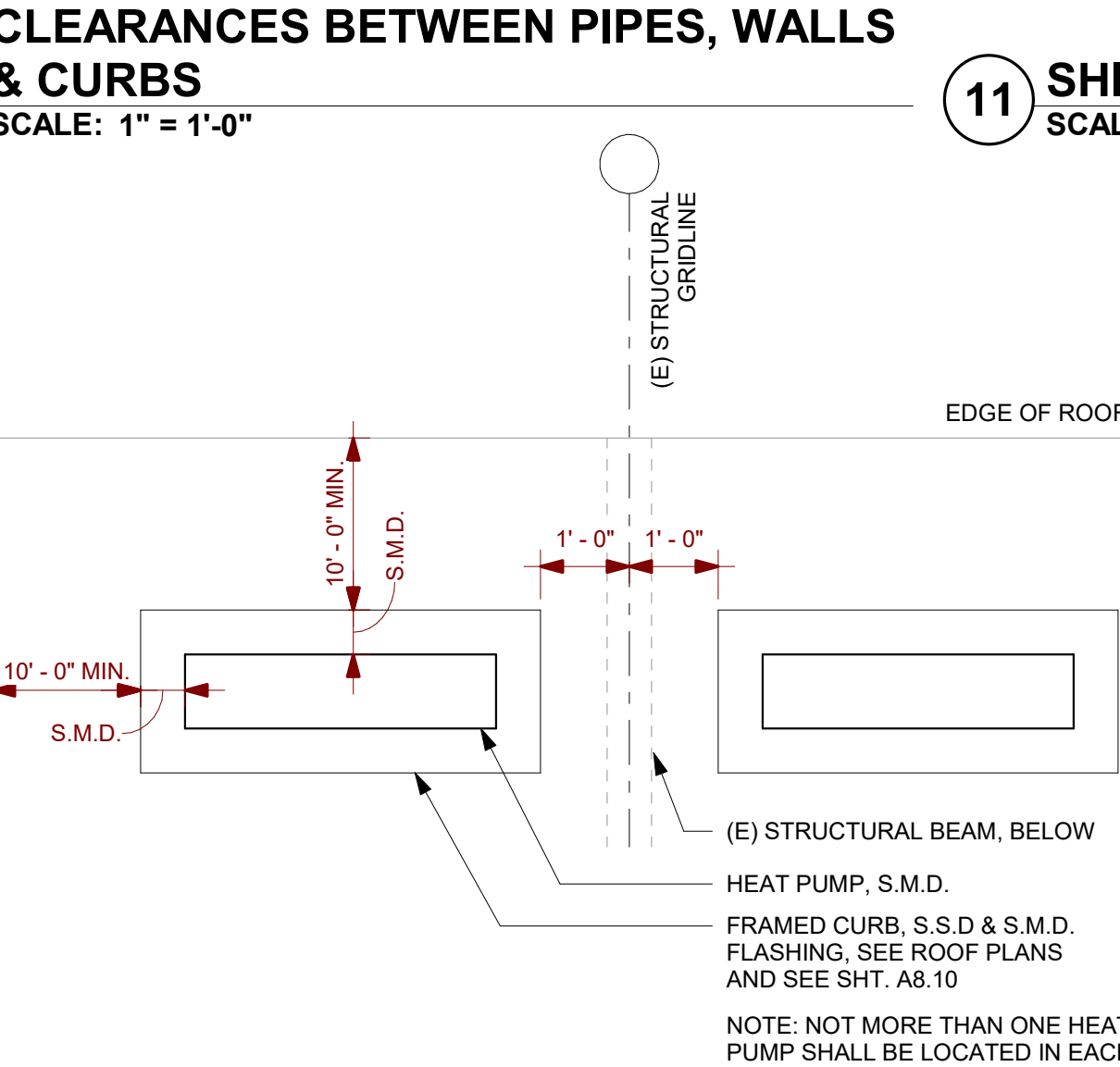
7 TOOLED JOINT (TJ)
SCALE: 1 1/2" = 1'-0"



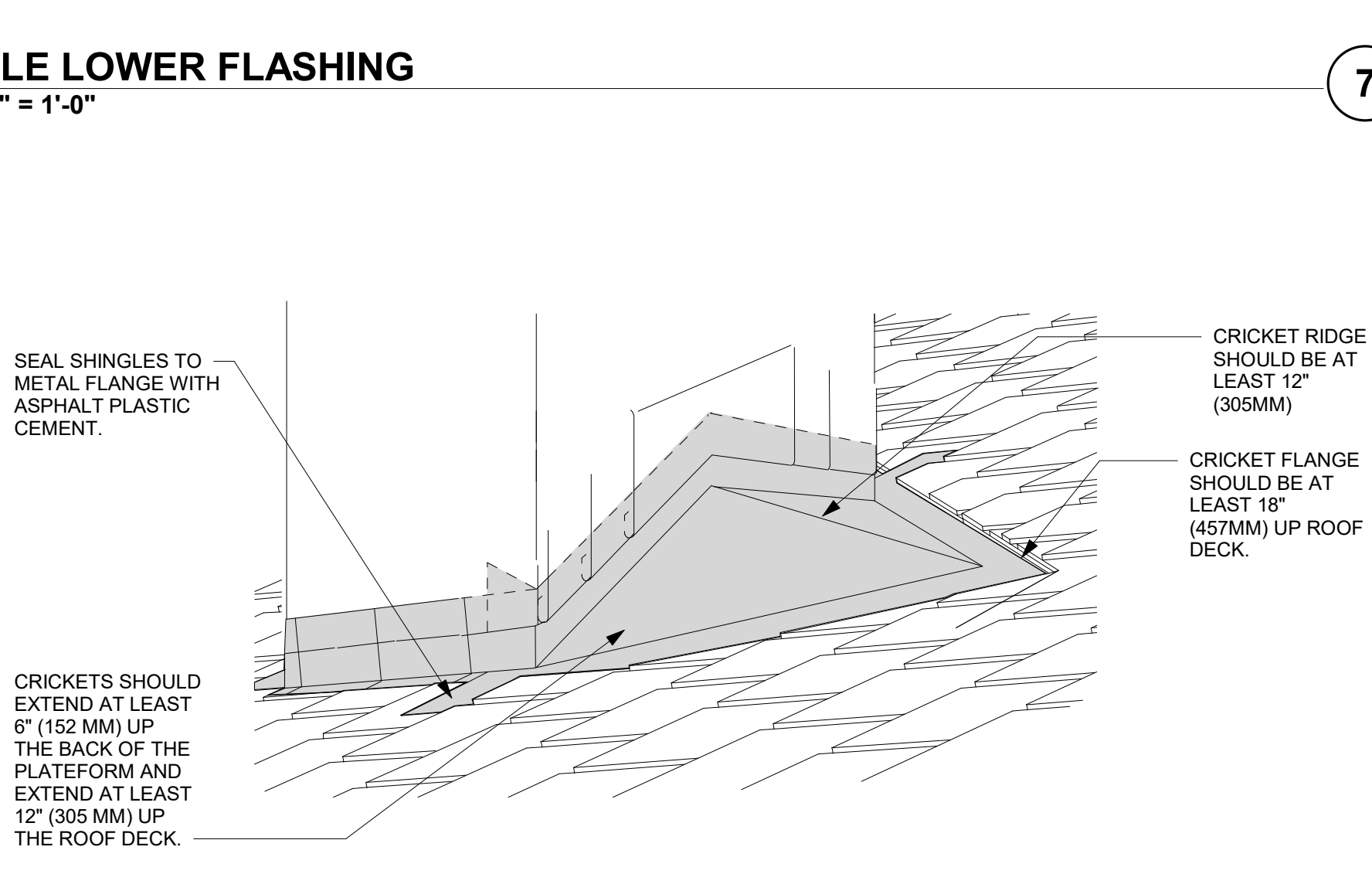
3 CHAINLINK FENCE BASE PLATE ANCHORAGE
SCALE: 3" = 1'-0"



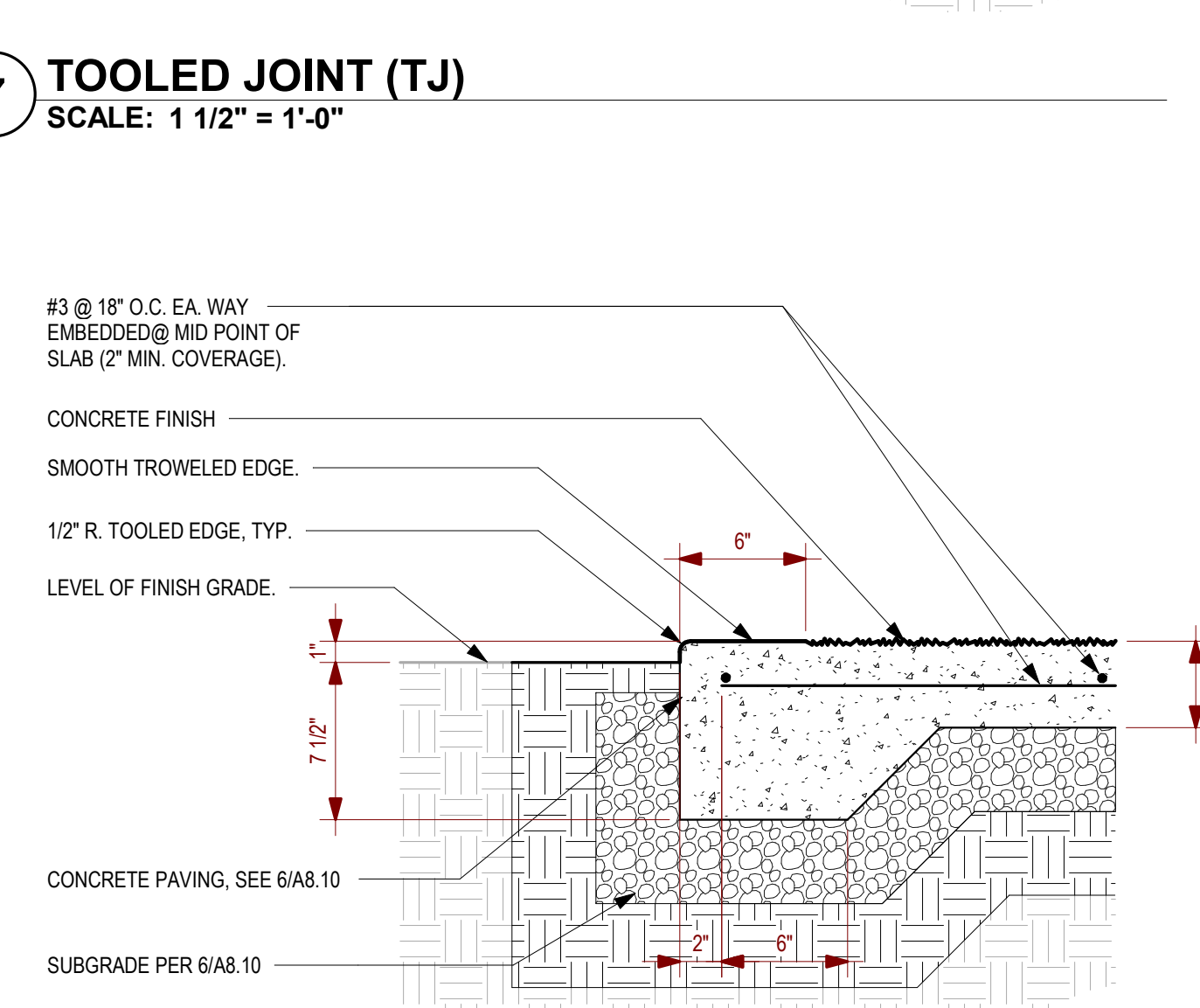
20 SINGLE PLY CURB CORNER FLASHING
SCALE: 1" = 1'-0"



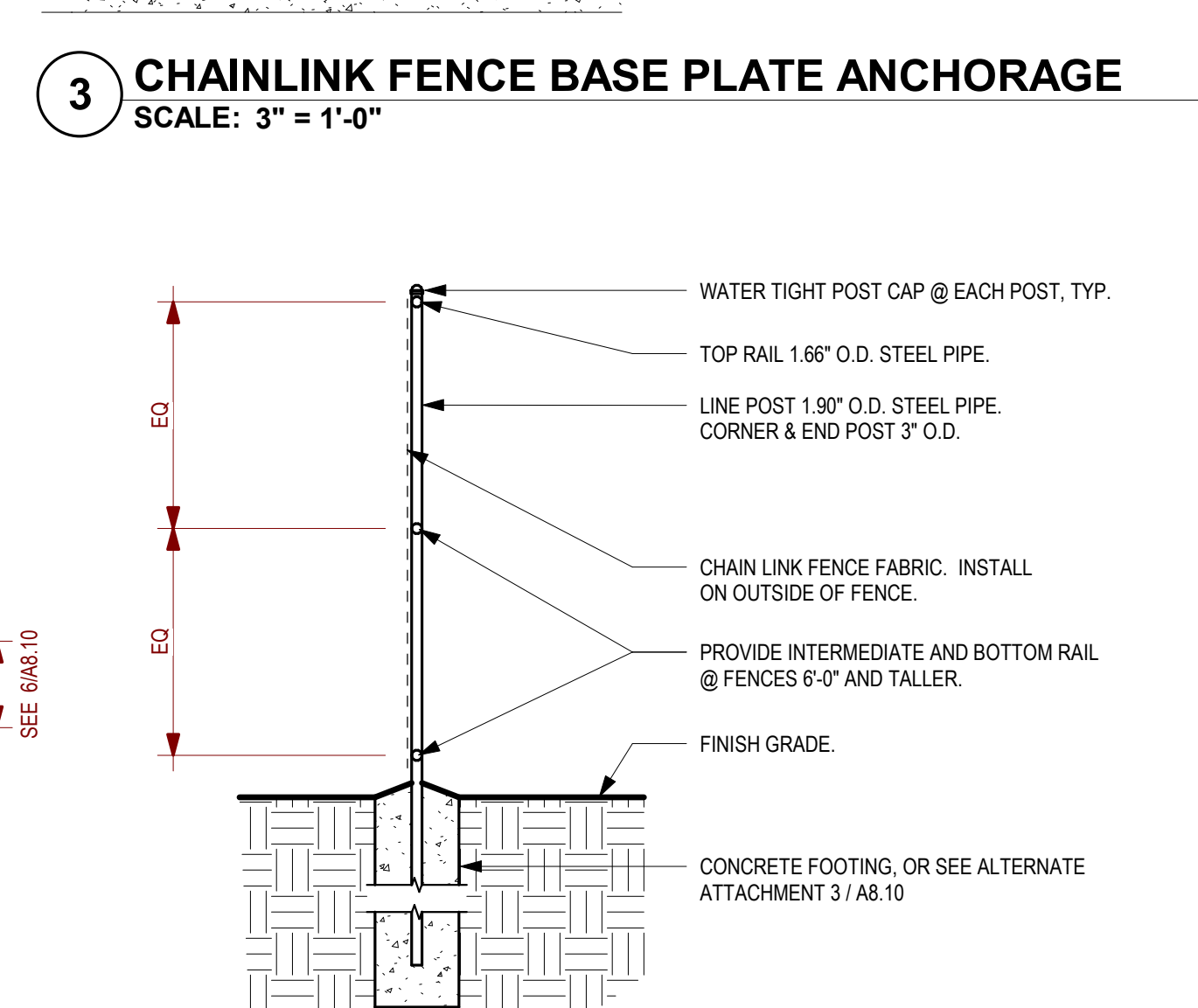
14 HEAT PUMP TYP. ROOF LAYOUT, N.T.S.
SCALE: 1/2" = 1'-0"



12 CRICKET SHINGLE FLASHING
SCALE: 1/2" = 1'-0"



8 EDGE OF CONCRETE PAVING
SCALE: 1 1/2" = 1'-0"



4 TYPICAL CHAINLINK FENCE
SCALE: 1/2" = 1'-0"

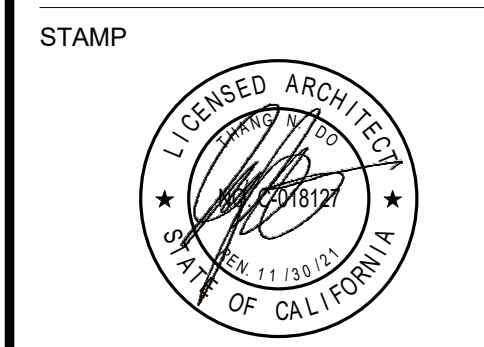
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119526 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 10/27/2021

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PROJECT
NORTH
SHOREVIEW
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SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT
CONSULTANT



STATE
DSA FILE NUMBER 41-26
APPL # 01-119526

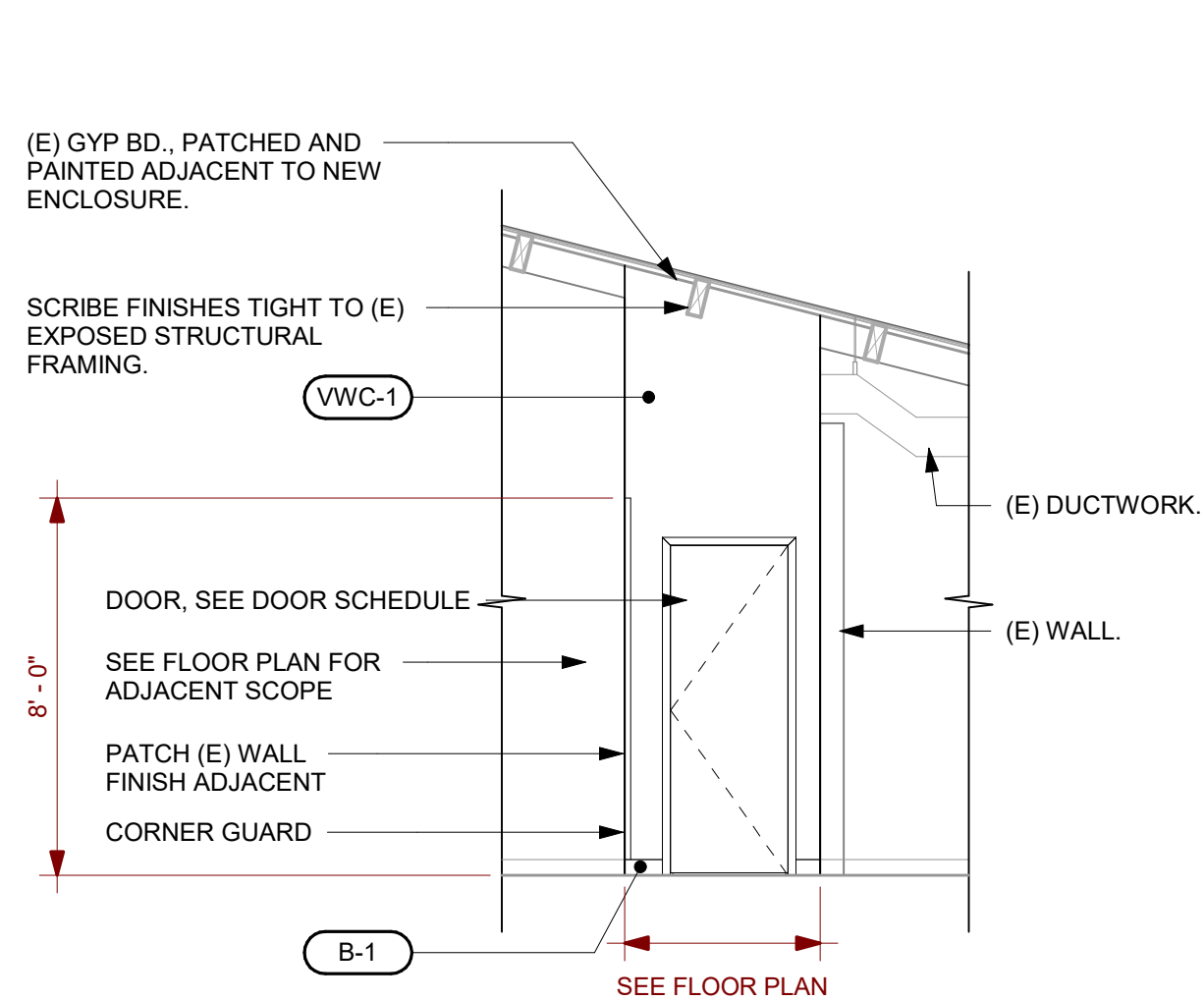
REVISIONS
No. Description Date

MILESTONES
DD
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DSA SUB 05/24/2021
BACKCHECK 10/22/2021

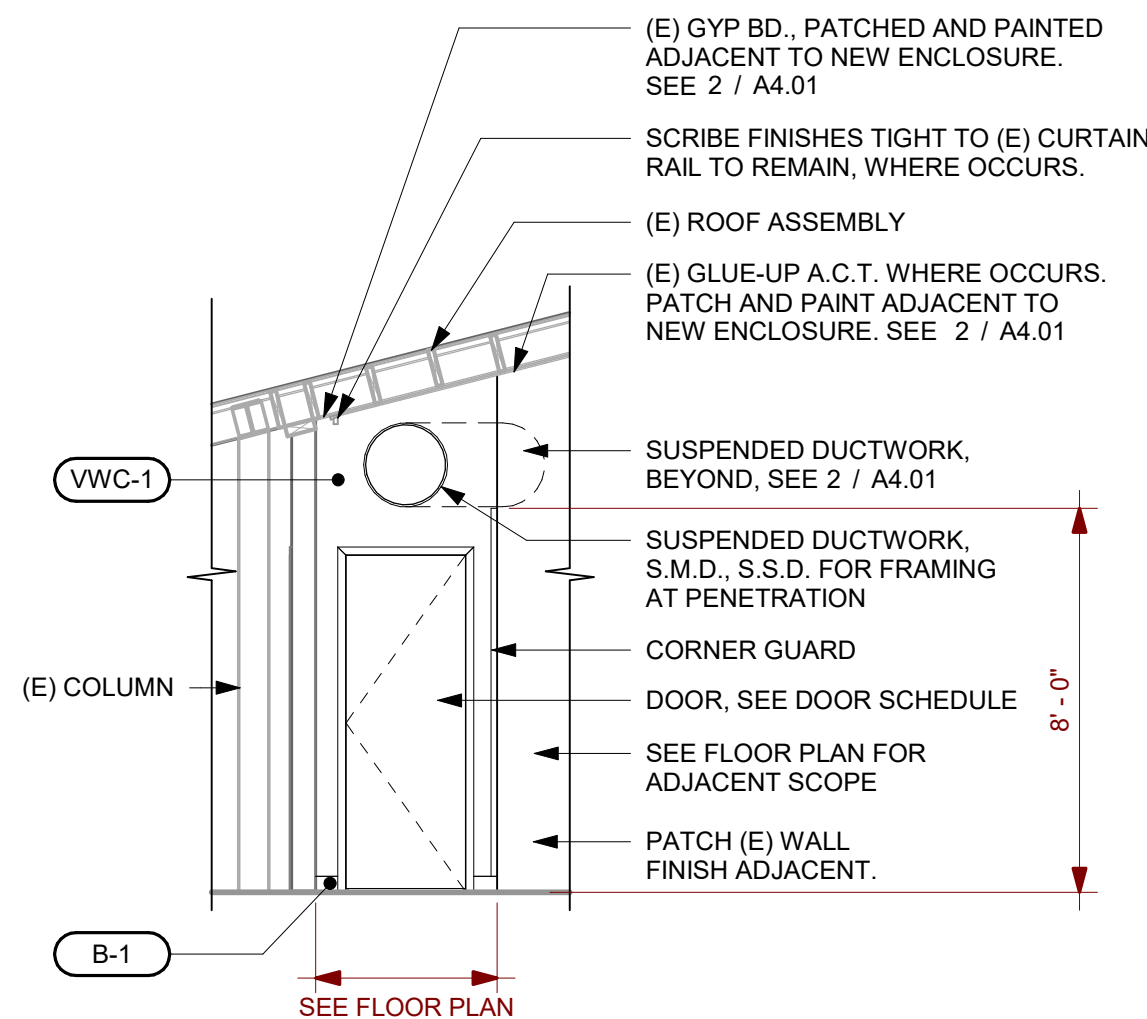
SHEET
EXTERIOR
DETAILS

DATE 10/22/2021
JOB # 2021005.05
SHEET #

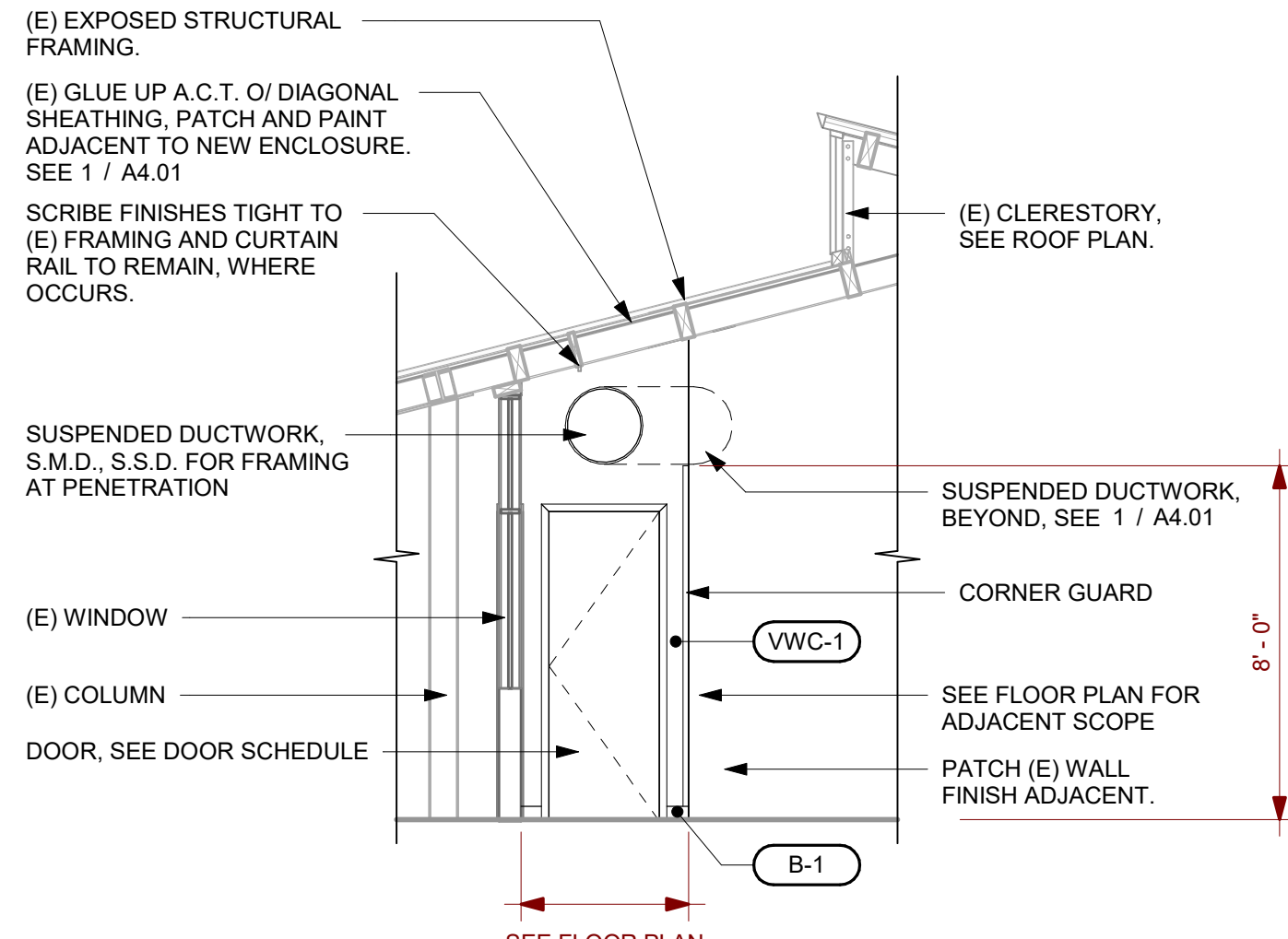
A8.10



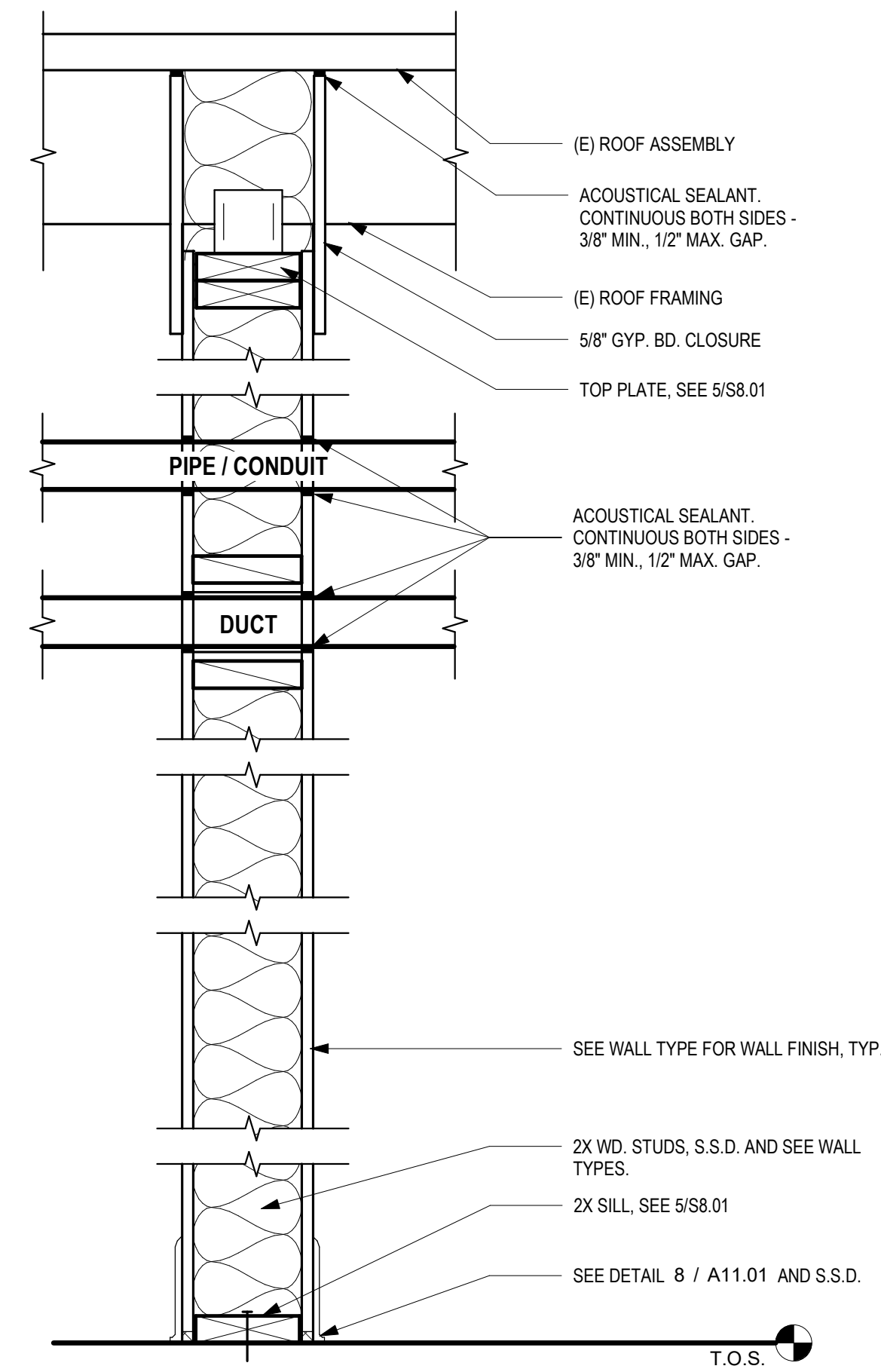
17 HVAC ENCLOSURE TYPICAL ELEVATION @ EXPOSED STRUCTURE
SCALE: 1/4" = 1'-0"



13 HVAC ENCLOSURE TYPICAL ELEVATION @ HARDLID
SCALE: 1/4" = 1'-0"

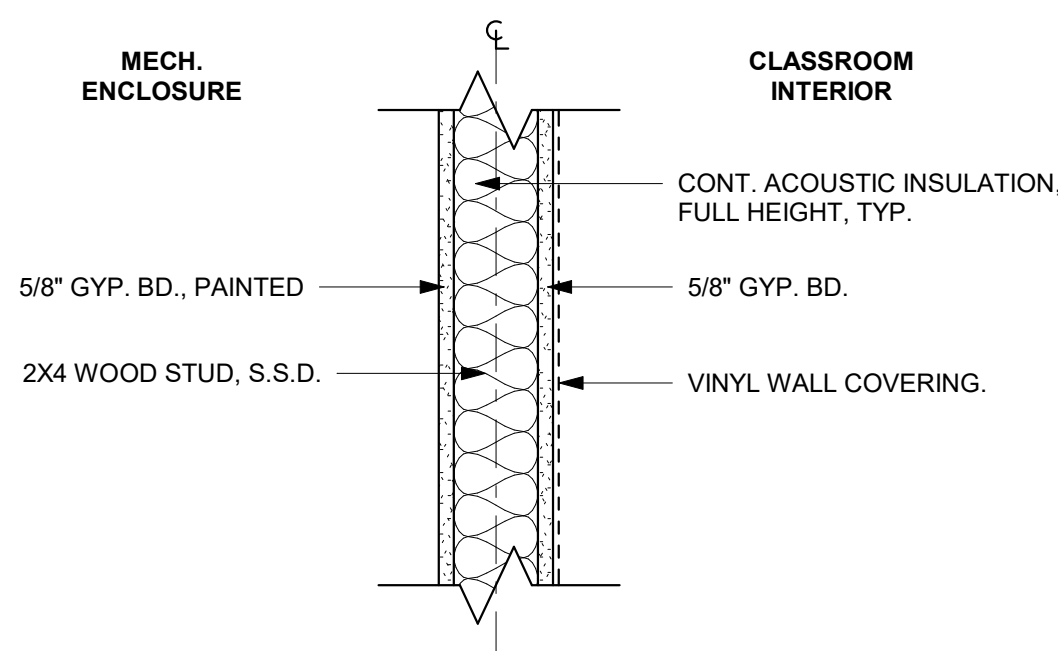


9 HVAC ENCLOSURE TYPICAL ELEVATION AT EXPOSED ROOF STRUCTURE
SCALE: 1/4" = 1'-0"

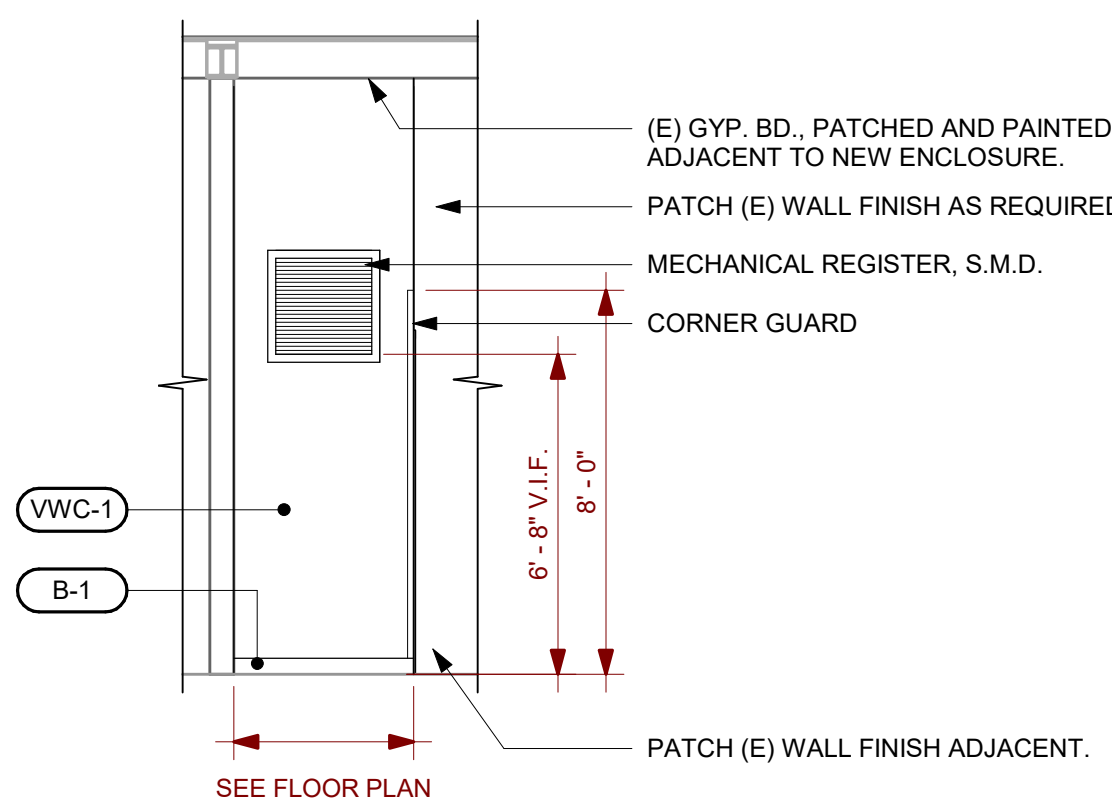


NOTES:
1. FOR RECESSED ACCESSORIES OR CABINETS, PROVIDE BLOCKING, GYPSUM BOARD AND ACOUSTICAL SEALANT SIMILAR TO DETAIL AT DUCT.

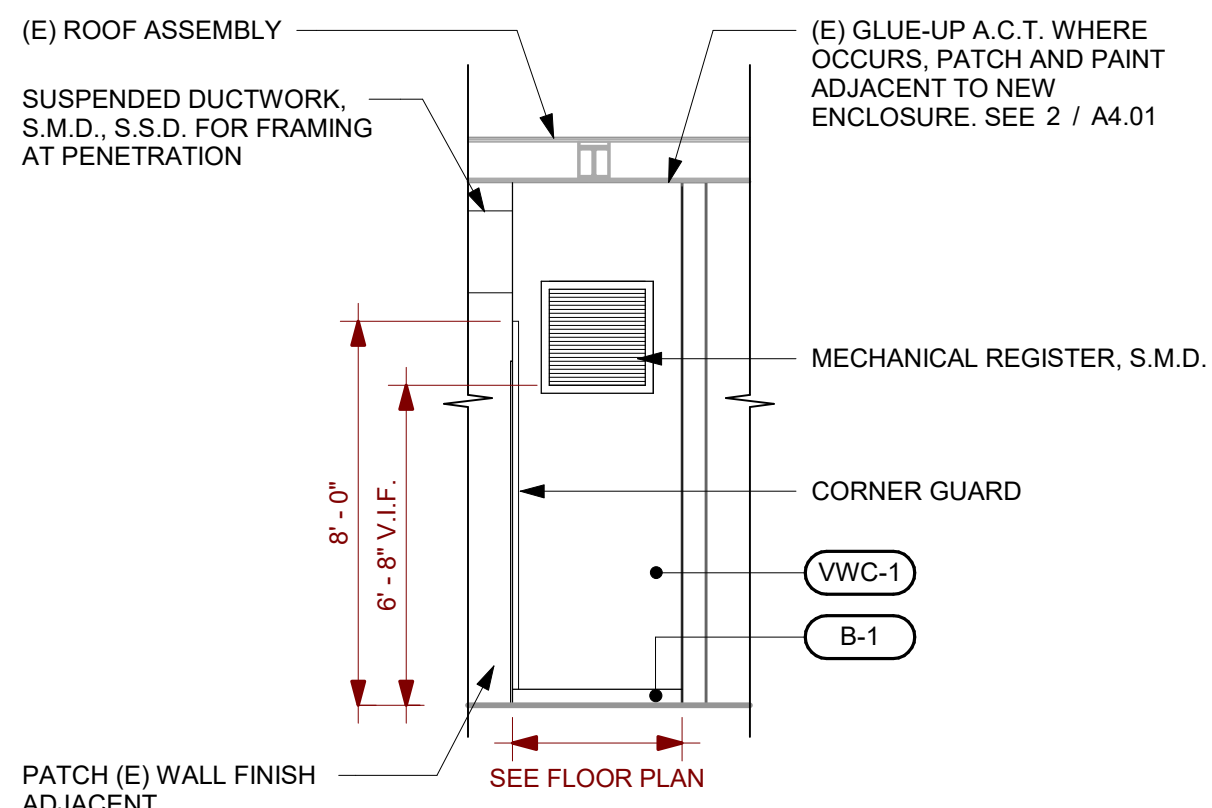
6 TYPICAL SOUND TREATED NONRATED WALL
SCALE: 1 1/2" = 1'-0"



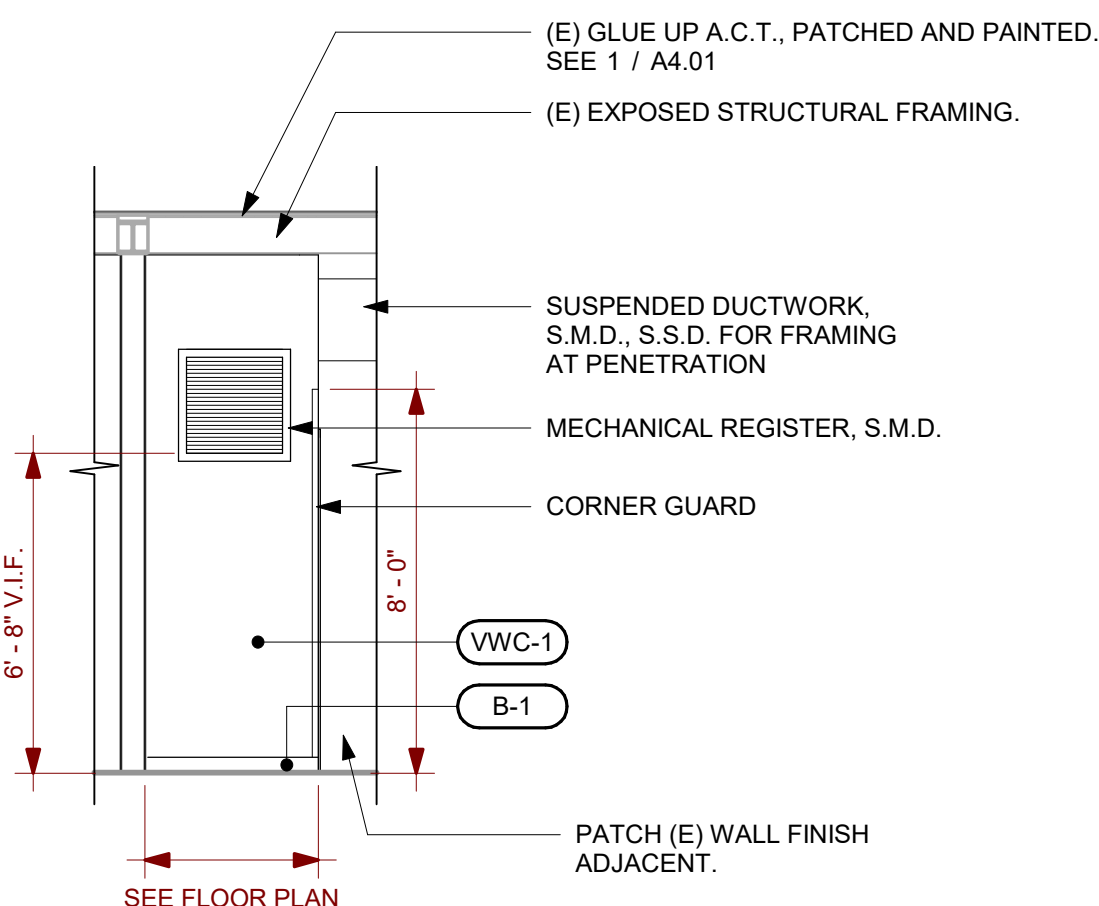
1 WALL TYPE 1 - MECHANICAL ENCLOSURE
SCALE: 1 1/2" = 1'-0"



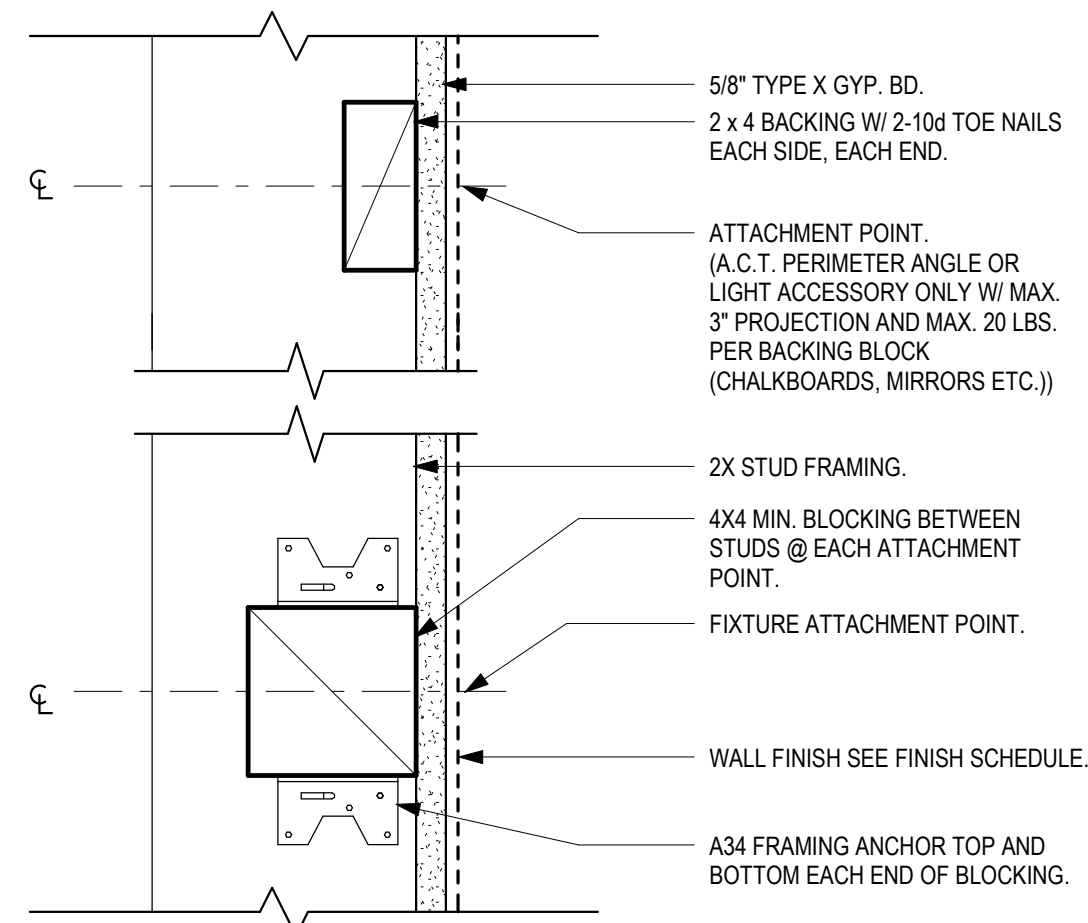
18 HVAC ENCLOSURE TYPICAL ELEVATION @ EXPOSED STRUCTURE
SCALE: 1/4" = 1'-0"



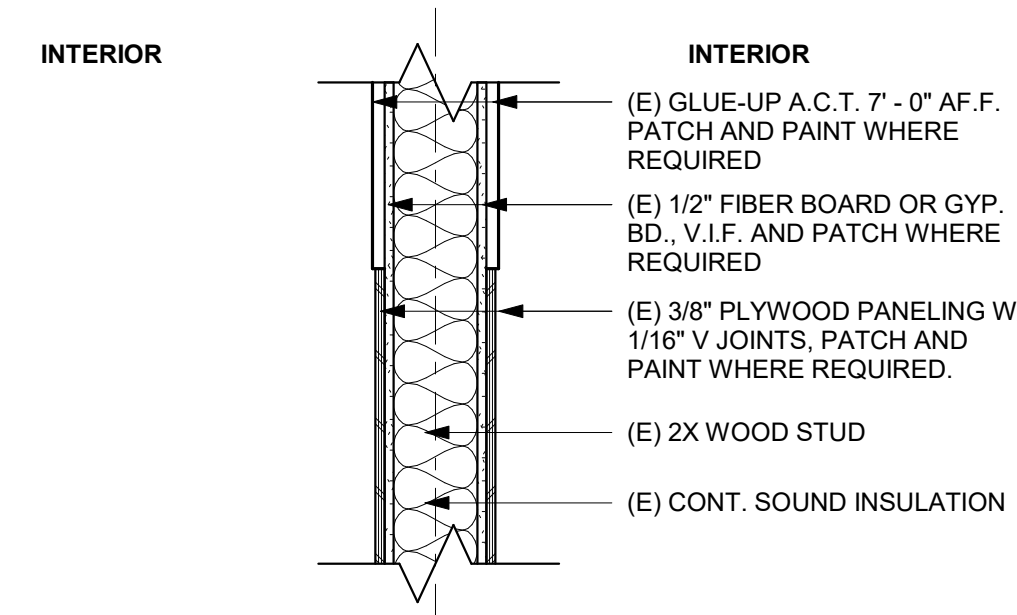
14 HVAC ENCLOSURE TYPICAL ELEVATION @ HARDLID
SCALE: 1/4" = 1'-0"



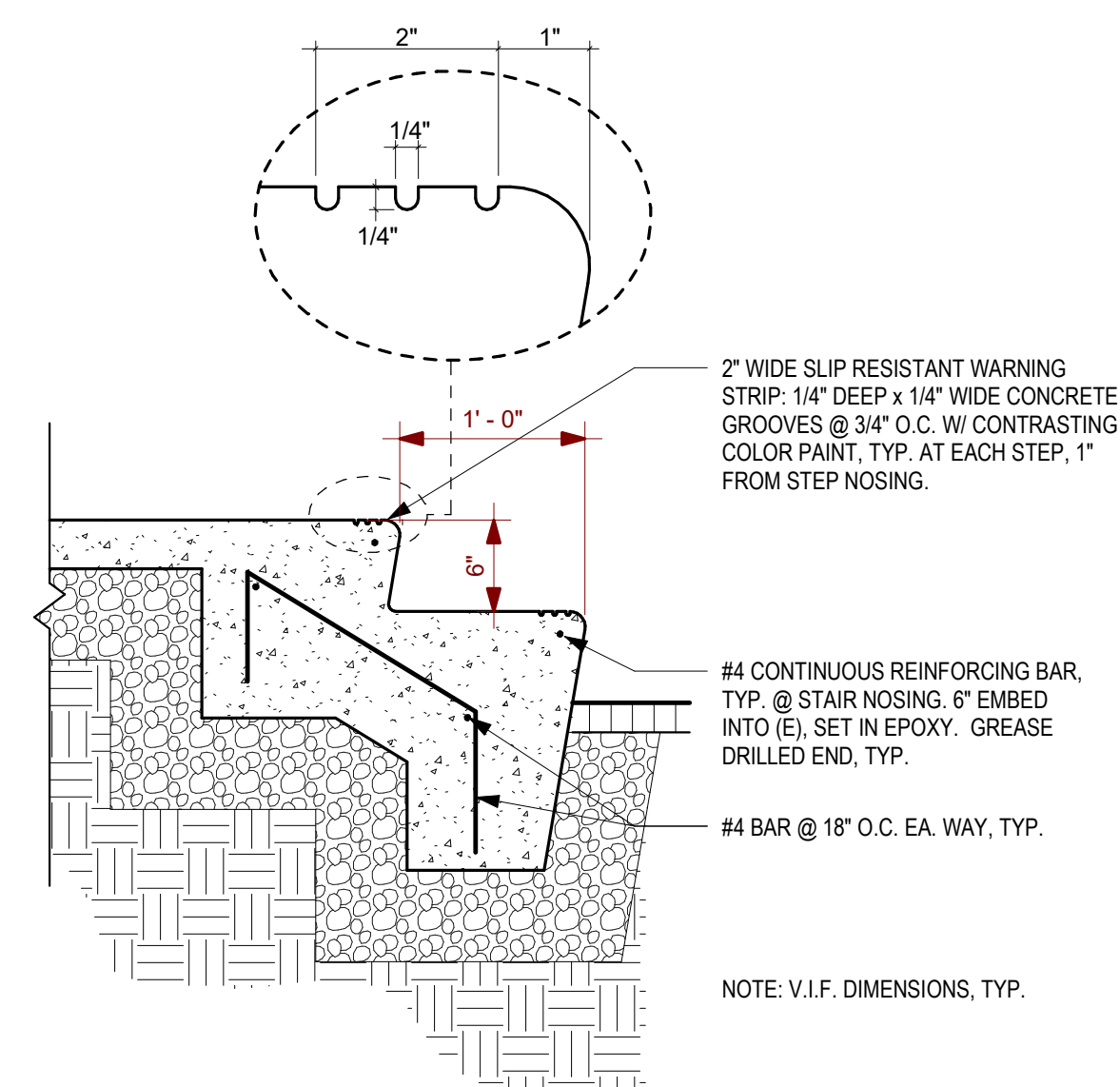
10 HVAC ENCLOSURE TYPICAL ELEVATION AT EXPOSED ROOF STRUCTURE
SCALE: 1/4" = 1'-0"



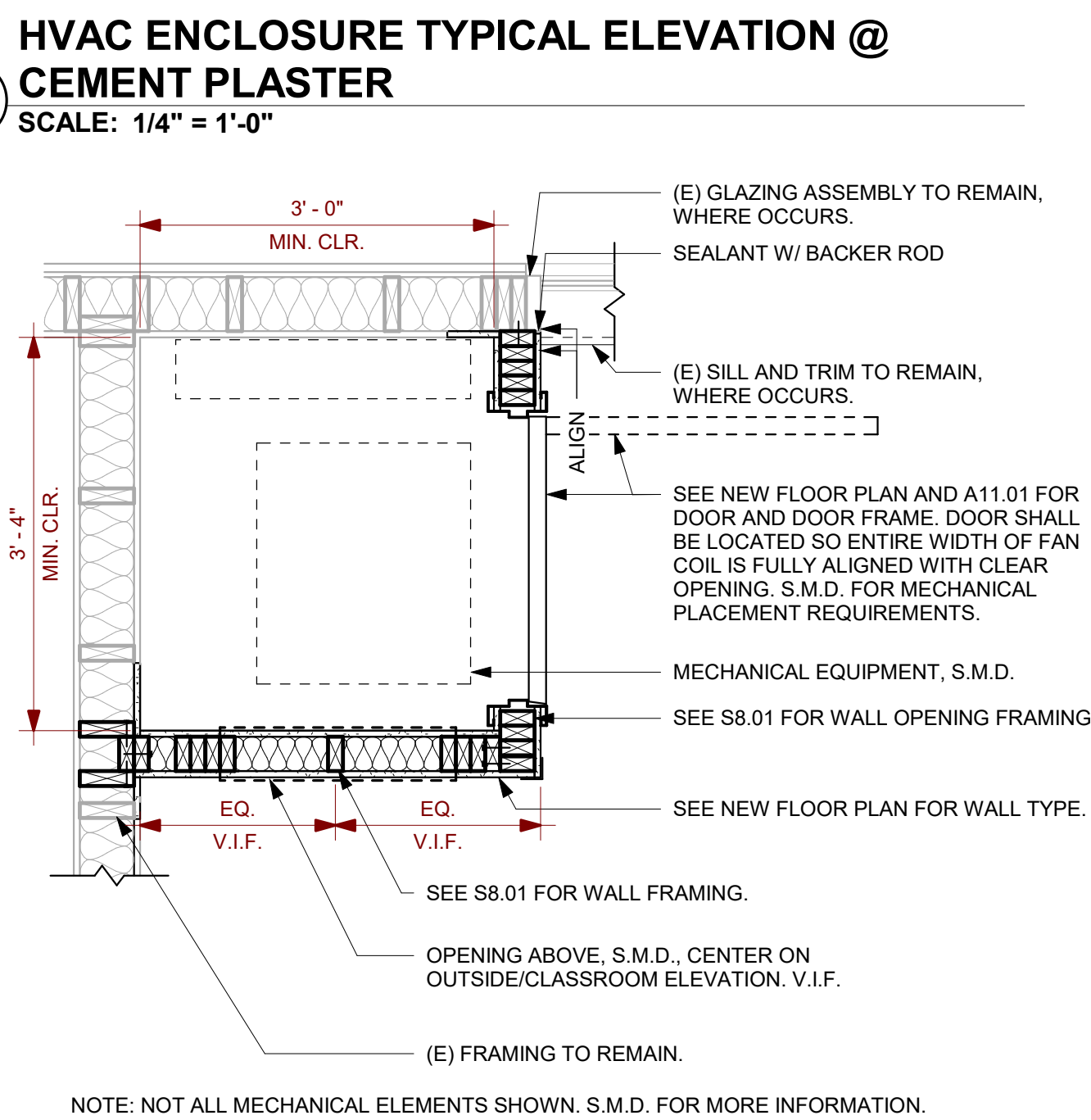
7 TYPICAL WOOD WALL BACKING/ BLOCKING
SCALE: 3" = 1'-0"



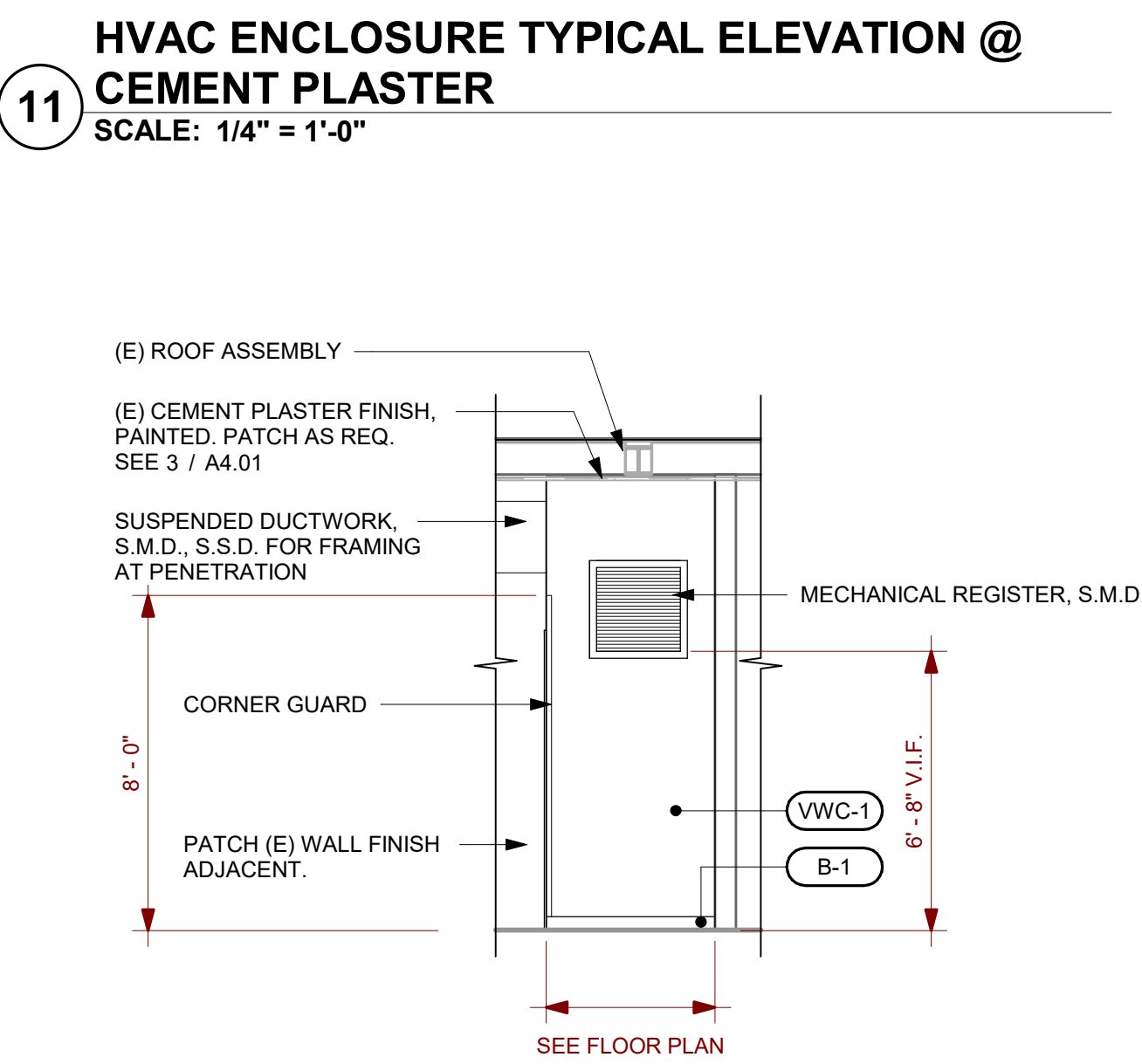
2 (E) WALL TYPE 2 - GYP. BD.
SCALE: 1 1/2" = 1'-0"



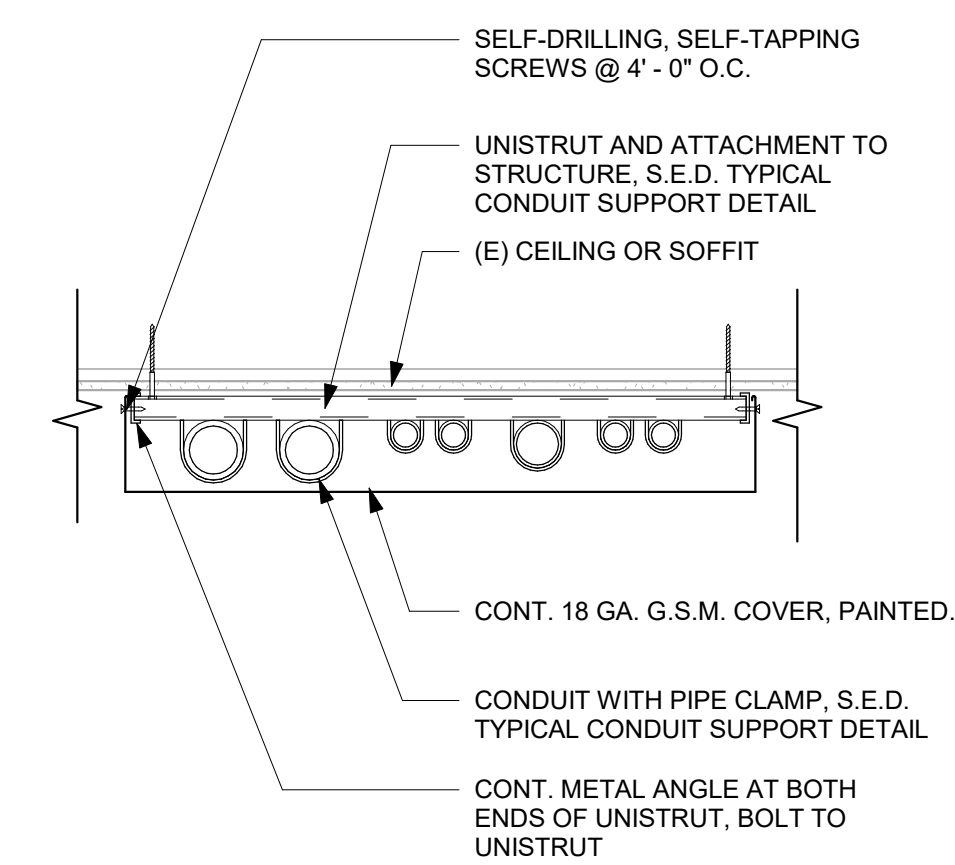
20 (E) EXTERIOR STEPS
SCALE: 1" = 1'-0"



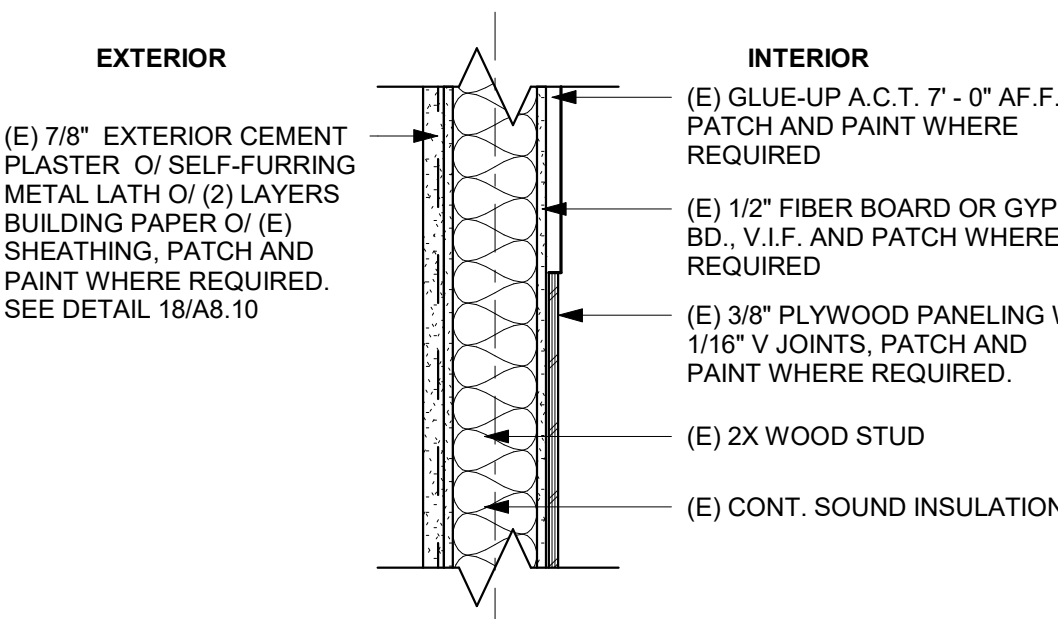
15 HVAC ENCLOSURE TYPICAL ELEVATION @ CEMENT PLASTER
SCALE: 1/4" = 1'-0"



11 HVAC ENCLOSURE TYPICAL ELEVATION @ CEMENT PLASTER
SCALE: 1/4" = 1'-0"

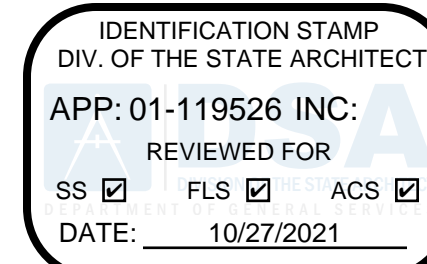


8 CONDUIT ENCLOSURE
SCALE: 1 1/2" = 1'-0"



3 WALL TYPE 3 - GLUE-UP A.C.T.
SCALE: 1 1/2" = 1'-0"

4 (E) WALL TYPE 4 - EXT. CEMENT PLASTER
SCALE: 1 1/2" = 1'-0"



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PROJECT

NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER **41-26**
APPL # **01-119526**

REVISIONS

No.	Description	Date
1		

△

MILESTONES

DD	
90% CD	
DSA SUB	05/24/2021
BACKCHECK	10/22/2021

SHEET

INTERIOR ELEVATIONS & DETAILS

DATE

10/22/2021

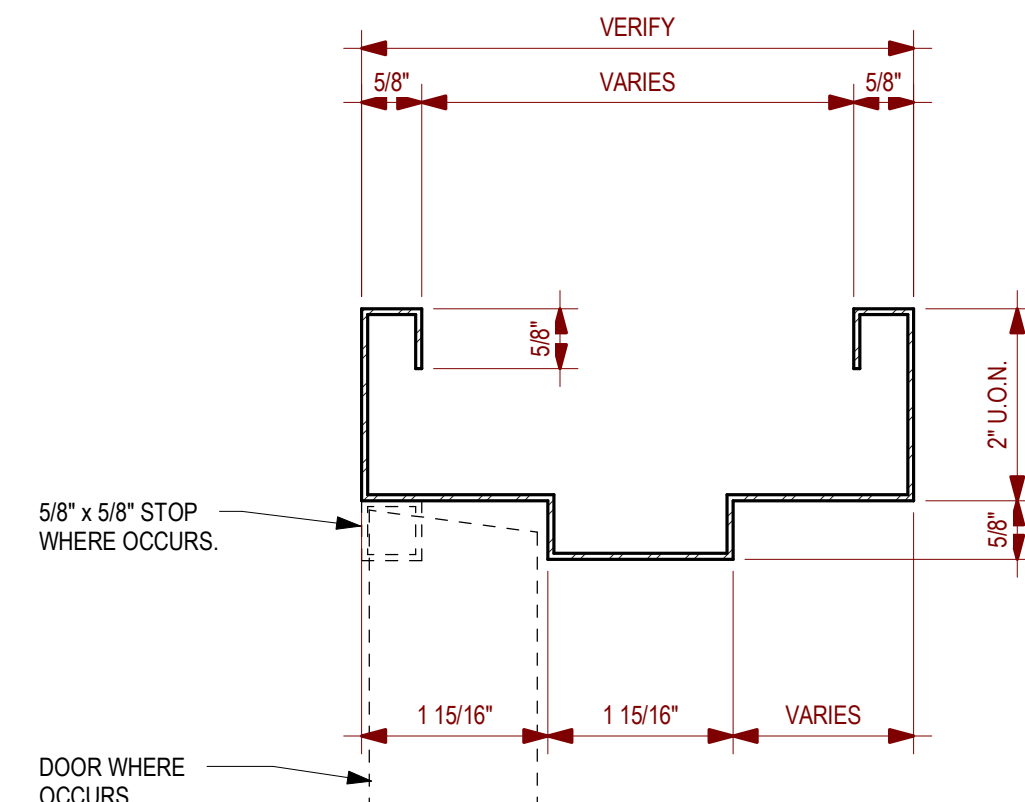
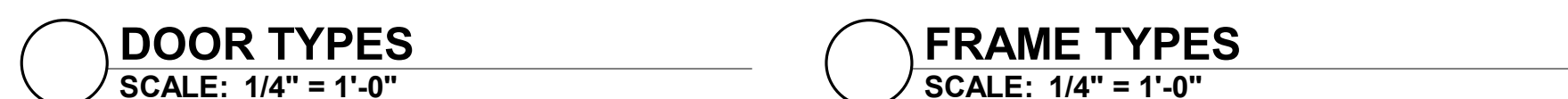
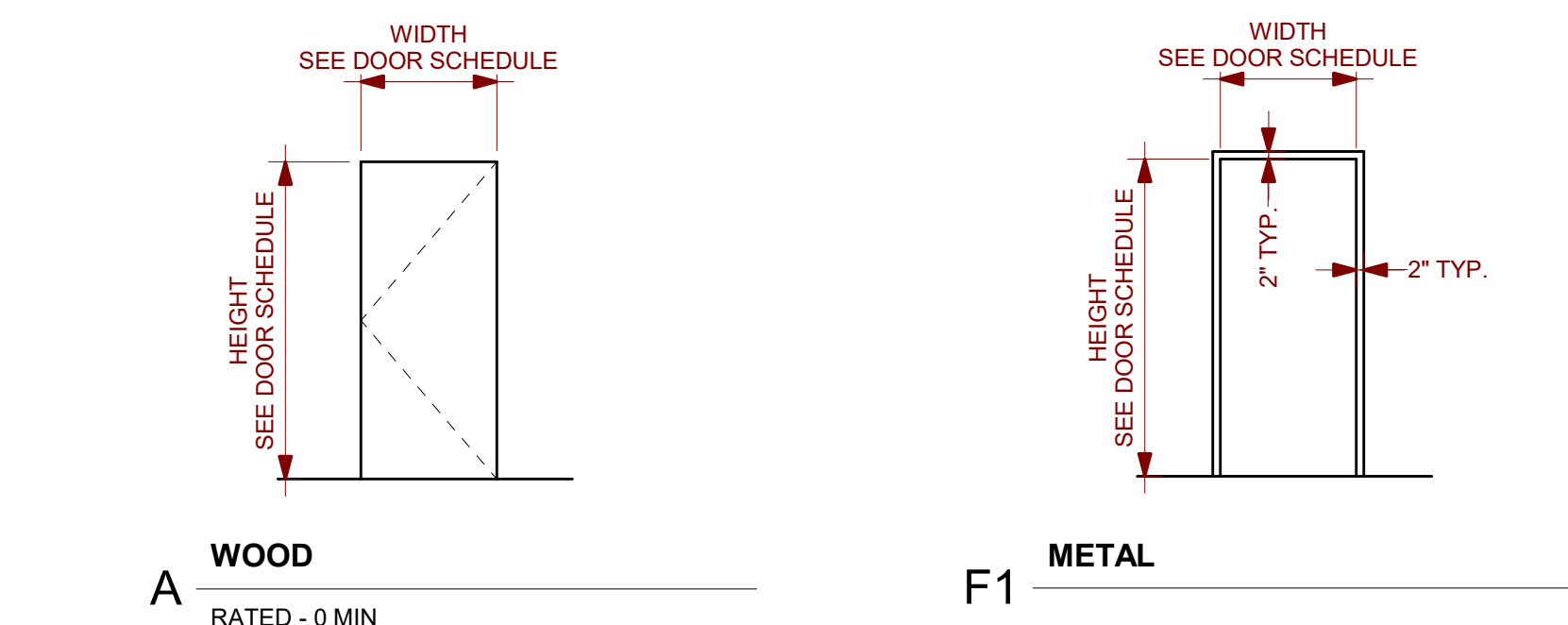
JOB #

2021005.05

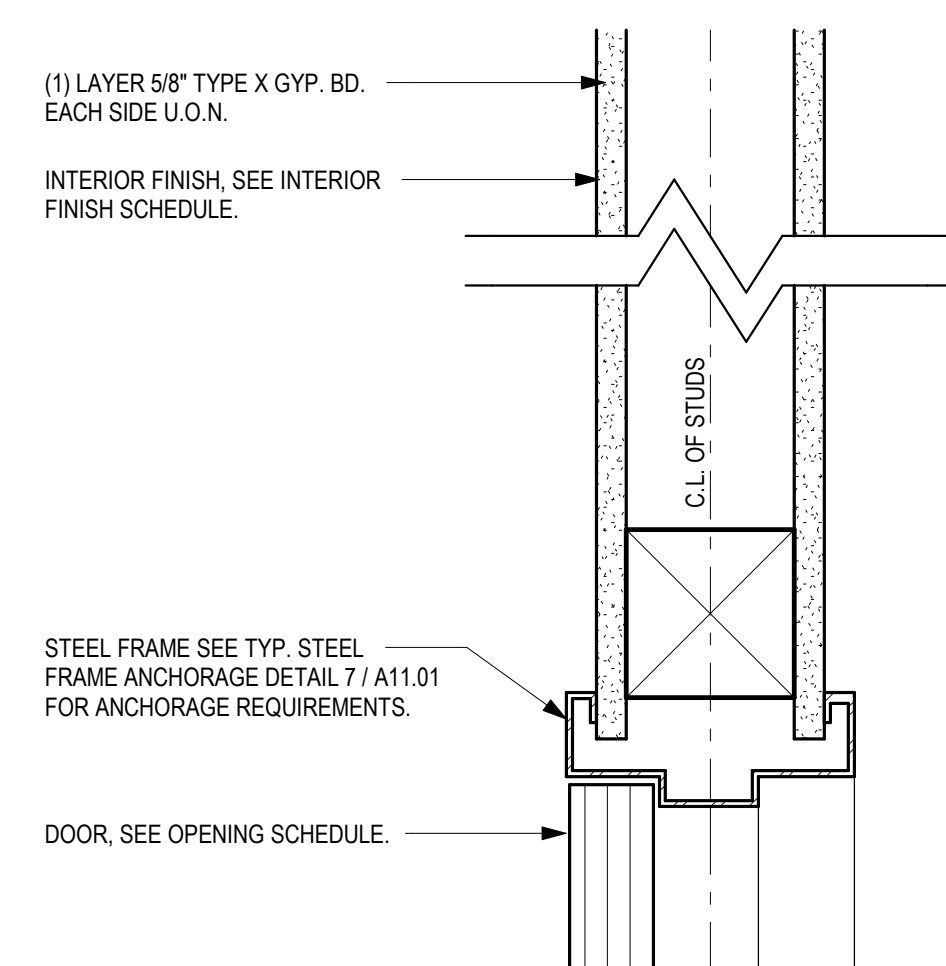
SHEET #

A9.10

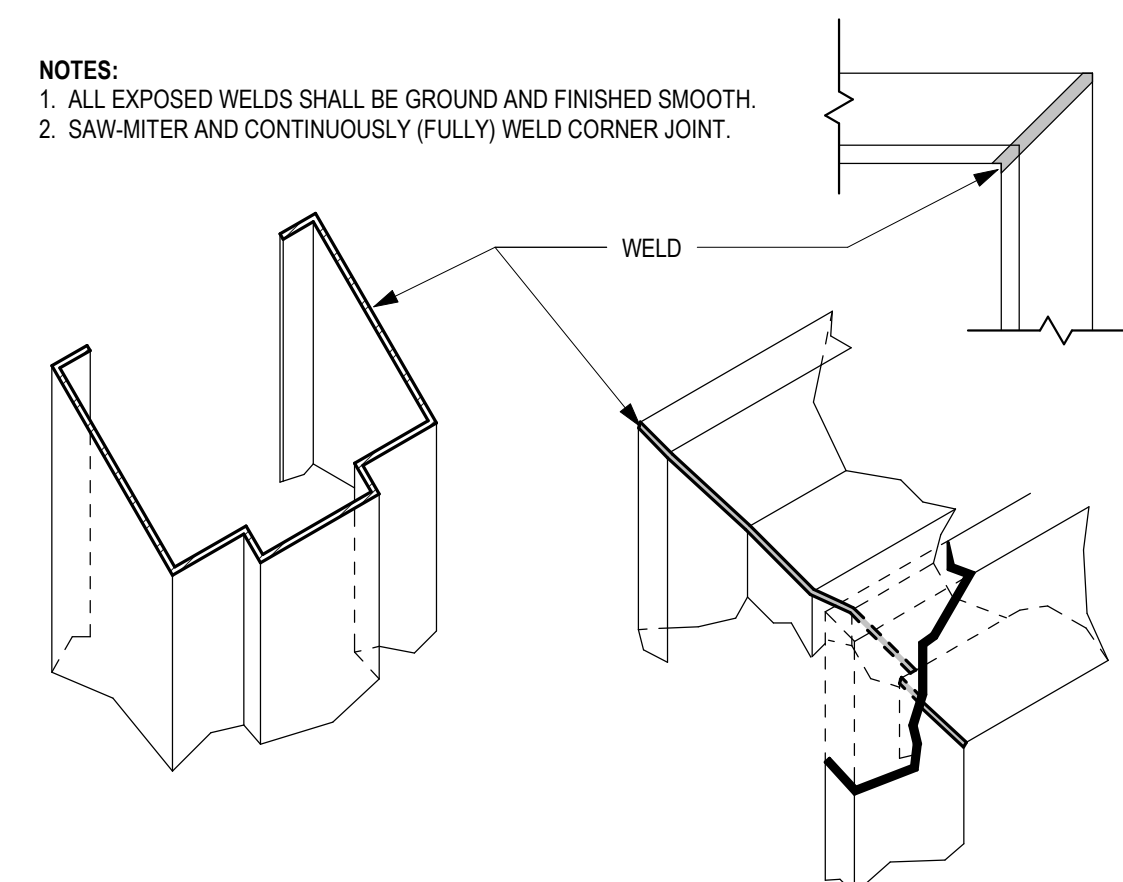
DOOR SCHEDULE											
DOOR ID	OPENING SIZE		DOOR		FRAME		DETAILS (Sheet A10.02 U.O.N.)				HARDWARE GROUP
	WIDTH	HEIGHT	TYPE	FINISH	TYPE	FINISH	HEAD	JAMB-1	JAMB-2	SILL	
1a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
2a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
3a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
4a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
5a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
6a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
7a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
8a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
9a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
10a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
11a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
12a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
13a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
14a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
15a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
17a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
18a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
19a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01
20a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11A/11.01	11A/11.01	11A/11.01	4A/11.01	01



10 TYPICAL STEEL FRAME DOOR PROFILE
SCALE: 6" = 1'-0"



11 INTERIOR STEEL FRAME HEAD AND JAMB
SCALE: 3" = 1'-0"



12 TYP. WELDING @ STEEL FRAME CORNER
SCALE: 1 : 1

DOOR SCHEDULE GENERAL NOTES

1 CONTRACTOR SHALL COORDINATE, PRIOR TO FABRICATION, DOOR FRAME
DEPTH TO ACCEPT ALL WALL FINISHES AS DETAILED IN THE DRAWINGS.

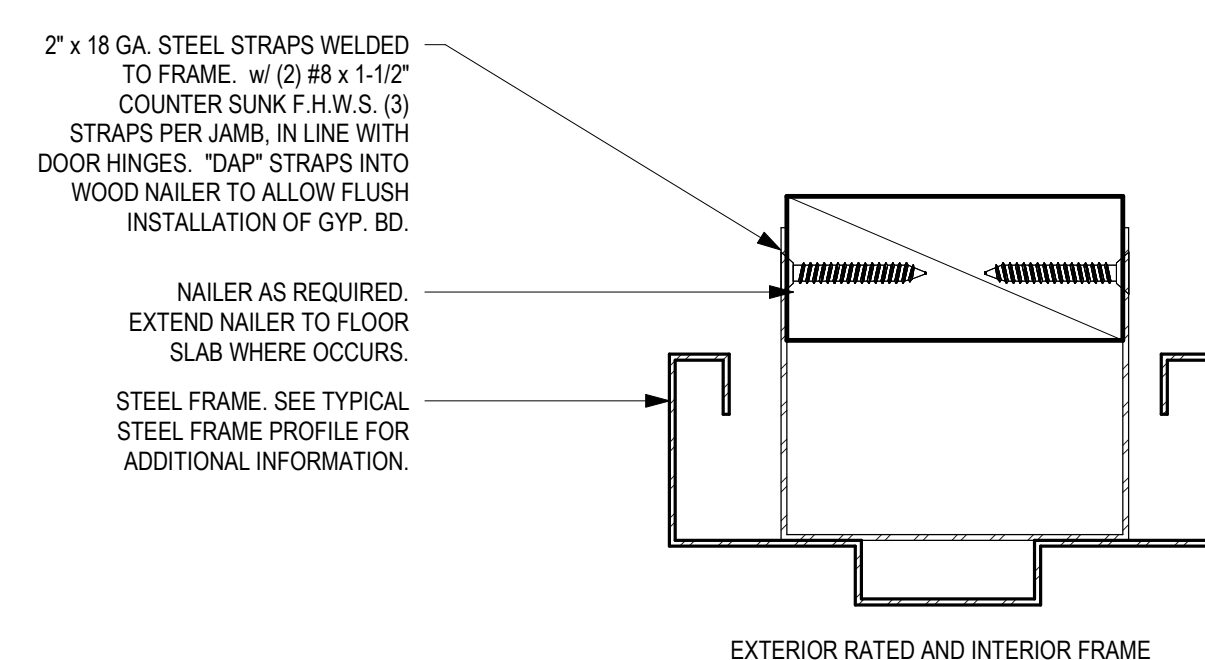
FINISH LEGEND

MARK	DESCRIPTION	MFR. / BRAND	COLOR / FINISH	COMMENTS
(E) CONG-1	SEALED CONCRETE			
(E) CPT-1	CARPET (TILE)			
(E) VCT-1	VINYL COMPOSITION TILE			
ACT-1	1'-0" X 1'-0" ACOUSTICAL CEILING TILES O' GYP. BD.	SEE SPEC.		
ACT-2	1'-0" X 1'-0" ACOUSTICAL CEILING TILES O' STRUCTURE	SEE SPEC.		
ACT-3	1'-0" X 1'-0" ACOUSTICAL WALL TILES	SEE SPEC.		
B-1	4" RUBBER TOP SET BASE	SEE SPEC.		
CP	CEMENT PLASTER	SEE SPEC		
ES	EXPOSED STRUCTURE, PAINTED			
GB-1	GYPSUM BOARD	SEE SPEC.		
GB-2	SUSP. GYPSUM BOARD	SEE SPEC.		
P-1	PAINT			
P-2	PAINT			
P-3	PAINT			
PLY-1	PLYWOOD	SEE SPEC.		
VWC-1	VINYL WALL COVERING	SEE SPEC.		

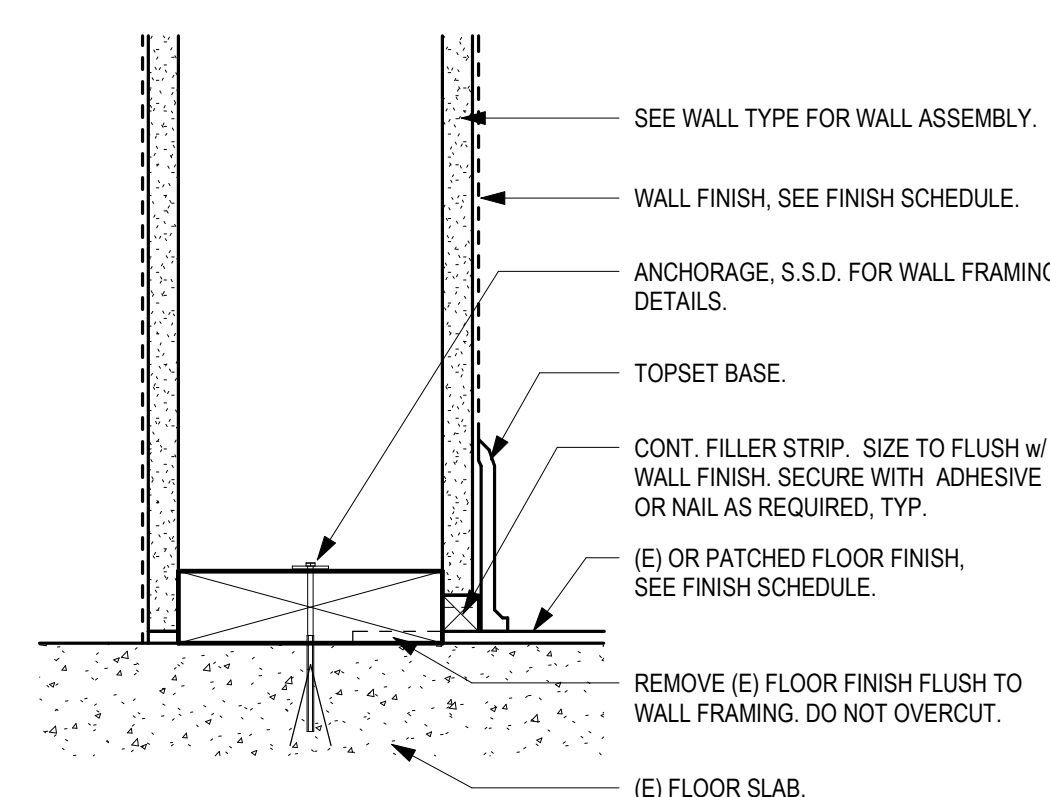
FINISH SCHEDULE						
ROOM		FLOOR		WALL FINISH	CEILING FINISH	COMMENTS
NUMBER	NAME	FLOOR FINISH	BASE FINISH			
1	CLASSROOM	(E) VCT-1	B-1	VWC-1, GB-1	ACT-2, ES	
2	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1	ACT-2, ES	
3	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1	ACT-2, ES	
4	CLASSROOM	(E) VCT-1	B-1	VWC-1, GB-1	ACT-2, ES	
5	ROOM	(E) CPT-1	B-1	VWC-1, GB-1	ACT-1	
6	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1	ACT-1	
7	CLASSROOM	(E) VCT-1	B-1	VWC-1, GB-1	ACT-1	
8	SPEECH / WEB ROOM	(E) CPT-1	B-1	VWC-1, GB-1	GB-2	
8A	JANITOR	(E) CONC-1	B-1	VWC-1, GB-1		
9	CLASSROOM	(E) CPT-1, (E) VCT-1	B-1	VWC-1, GB-1	ACT-2, ES	
10	CLASSROOM	(E) CPT-1, (E) VCT-1	B-1	VWC-1, GB-1	ACT-2, ES	
11	CLASSROOM	(E) CPT-1, (E) VCT-1	B-1	VWC-1, GB-1	ACT-2, ES	
11A	CLOSET	(E) CONC-1	B-1	VWC-1, GB-1	GB-2	
11B	TEACHER'S WORK ROOM	(E) CPT-1, (E) VCT-1	B-1	VWC-1, GB-1	B.O.S.	
12	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1, GB-2	
12A	MECH ROOM	(E) CONC-1	--	VWC-1, GB-1, ACT-3	GB-2	
13	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1, GB-2	
14	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1, GB-2	
15	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1, GB-2	
17	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1	
18	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1	
19	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1	
20	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1	
20A	MECH ROOM	(E) CONC-1	B-1	VWC-1, CP-1	CP-1	

GENERAL FINISH SCHEDULE NOTES

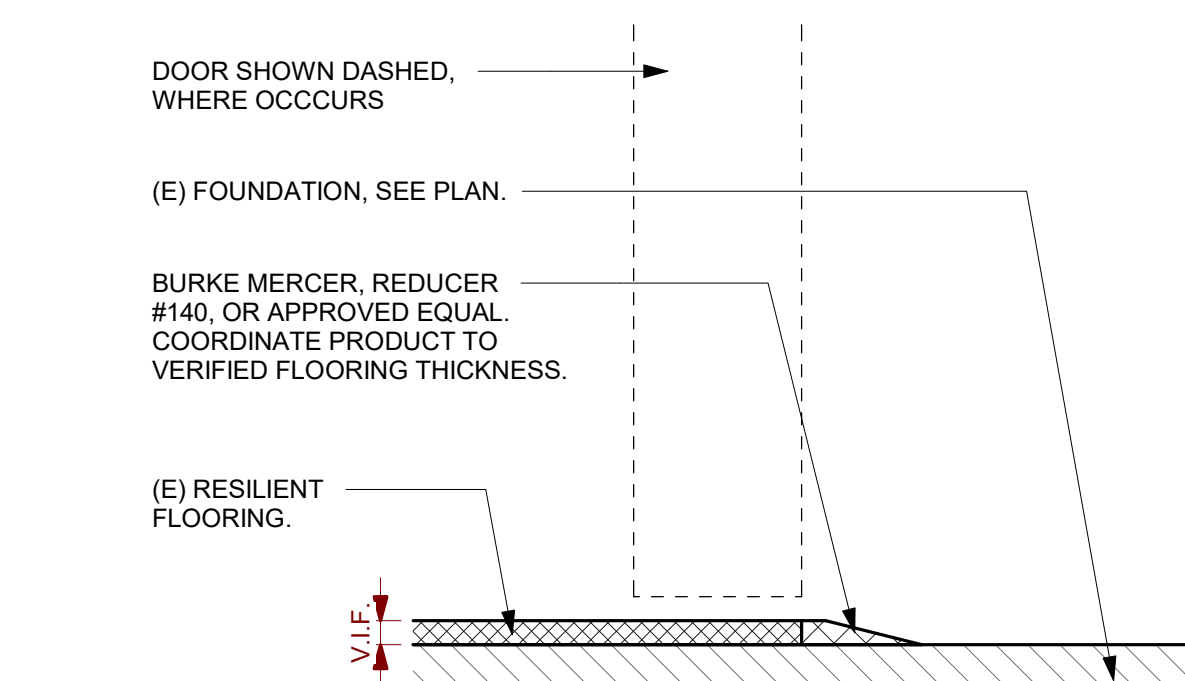
A	WHERE MULTIPLE FINISHES ARE CALLED OUT, REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF INDIVIDUAL FINISHES.
B	PROVIDE FINISHES TO COMPLY WITH FLAME SPREAD & SMOKE DENSITY REQUIREMENTS OF CBC 803 and 804.
C	PATCH FINISHES TO MATCH ADJACENT AT ALL SURFACES REMOVED TO FACILITATE CONSTRUCTION.
D	EXISTING FINISHES THAT MIGHT OCCUR OUTSIDE OF THE AREA OF WORK HAVE BEEN OMITTED.
E	(E) FLOORING INDICATED FOR REFERENCE ONLY.



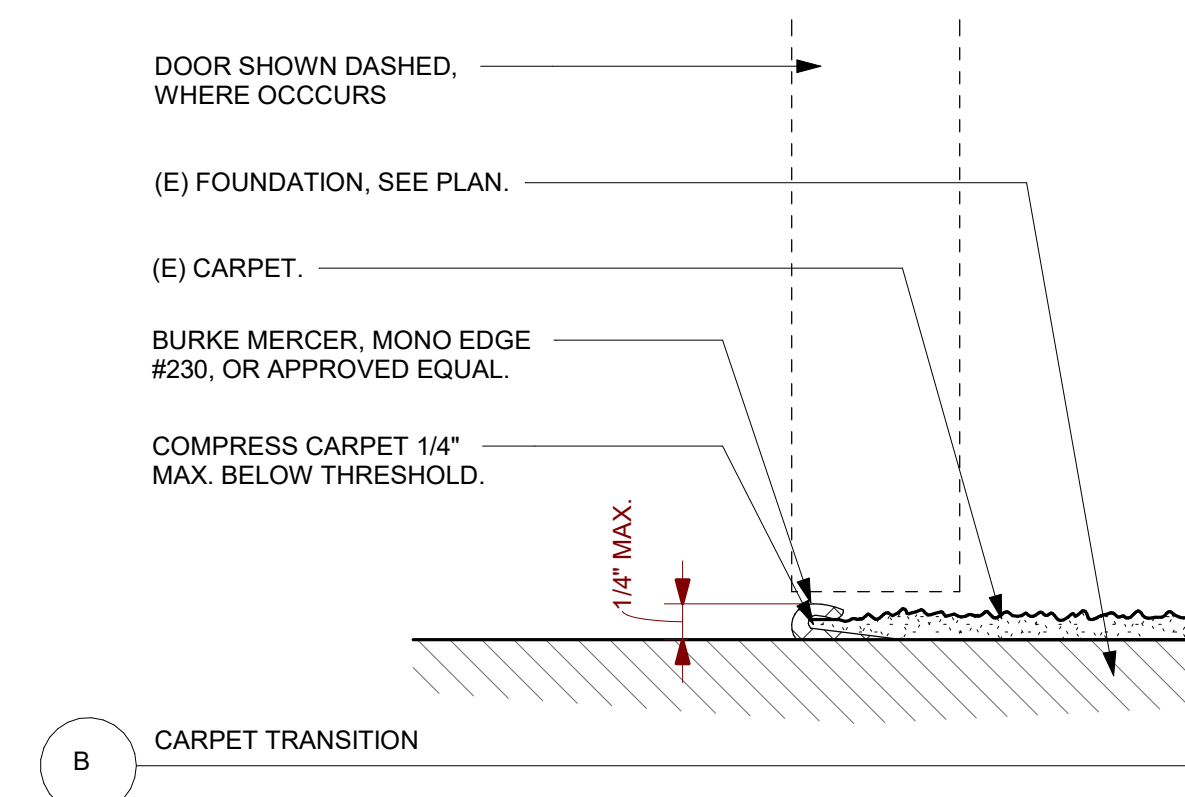
7 TYPICAL STEEL FRAME ANCHORAGE
SCALE: 6" = 1'-0"



8 INTERIOR WALL BASE



A RESILIENT FLOORING TRANSITION



CARPET TRANSITION

4 FLOORING TRANSITION

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
APP: 01-119526 INC: A	
REVIEWED FOR	
SS <input checked="" type="checkbox"/>	FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/>
DATE: 10/27/2021	

aedis

architects

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San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121


PROJECT

**NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT**

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER **41-26**

APPL # **01-119526**

REVISIONS

No.	Description	Date
△		

MILESTONES

DD	
90% CD	
DSA SUB	05/24/2021
BACKCHECK	10/22/2021

SHEET

**FINISH
SCHEDULE &
OPENING
SCHEDULE,
LEGENDS, &
DETAILS**

DATE **10/27/2021**

JOB # **2021005.05**

SHEET # **A11.01**

I. GENERAL REQUIREMENTS

A. THE STRUCTURAL DRAWINGS AND PROJECT SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE MEANS, METHODS, PROCEDURES AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

B. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL STANDARDS.

C. ALL CONSTRUCTION, TESTING, AND INSPECTIONS SHALL CONFORM TO THE BUILDING CODE REFERENCED UNDER THE HEADING "BASIS OF DESIGN" BELOW.

D. STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED.

E. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: FLOOR FINISHES; DEPRESSIONS IN FLOOR SLABS; OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MEP FEATURES; EXTERIOR PAVING; CURBS; SLOPES; DRAINS; PADS; NON-STRUCTURAL PARTITIONS; EMBEDDED ITEMS; ETC. COORDINATE THESE ITEMS WITH THE STRUCTURAL DRAWINGS.

F. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.

G. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

H. DO NOT SCALE THE DRAWINGS; USE WRITTEN DIMENSIONS ONLY. WHERE NO DIMENSIONS ARE PROVIDED OR WHERE DIMENSIONS PROVIDED CONFLICT WITH OTHER DRAWINGS, CONSULT THE ARCHITECT AND SEOR BEFORE PROCEEDING WITH THE WORK.

I. WHERE MEMBER LOCATIONS ARE NOT DIMENSIONED, MEMBERS SHALL BE LOCATED ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBERS OTHERWISE LOCATED. CENTERLINES OF COLUMNS, WALLS, FRAMING MEMBERS, AND FOUNDATIONS COINCIDE WITH GRIDLINES, UNLESS OTHERWISE NOTED.

J. TYPICAL DETAILS ARE INTENDED TO APPLY TO APPLICABLE SITUATIONS, UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT BE SPECIFICALLY LOCATED.

K. DETAILS SHALL BE APPLIED TO EVERY LIKE CONDITION WHETHER OR NOT THEY ARE REFERENCED IN EVERY INSTANCE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, USE DETAILS SIMILAR TO THOSE PROVIDED.

L. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE PLACED.

II. EXISTING CONSTRUCTION

A. WORK SHOWN IS NEW UNLESS OTHERWISE NOTED AS EXISTING, (E).

B. EXISTING CONSTRUCTION SHOWN IN THESE DRAWINGS WAS OBTAINED FROM AS-BUILT DRAWINGS AND INDICATED FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, REVIEW ALL AVAILABLE EXISTING DRAWINGS AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SEOR OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.

C. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING. IF EXISTING STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE SEOR SHALL BE NOTIFIED IMMEDIATELY. APPROVAL SHALL BE OBTAINED PRIOR TO REMOVAL OF THE EXISTING MEMBERS.

D. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW INSTALLATION OF THE NEW WORK. THE EXISTING CONSTRUCTION SHALL BE CONNECTED AND/OR EMBEDDED INTO THE NEW CONSTRUCTION AS SHOWN OR SPECIFIED.

E. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE SPECIFIED BY A LICENSED CIVIL OR STRUCTURAL ENGINEERING IN THE STATE OF CALIFORNIA TO BE RETAINED BY THE CONTRACTOR. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

F. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.

G. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE CAUSED DURING OPERATIONS WITH SIMILAR MATERIALS AND WORKMANSHIP.

H. THE CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL WHERE EXISTING CONCRETE IS TO BE CUT, CORED OR SAWN. LOCATION SHALL BE DONE USING A NON-DESTRUCTIVE METHOD. DO NOT DAMAGE EXISTING REINFORCING WITHOUT NOTIFYING THE ARCHITECT AND SEOR.

III. BASIS OF DESIGN

A. THE STRUCTURAL DESIGN OF THIS PROJECT IS GOVERNED BY THE 2019 CALIFORNIA BUILDING CODE (CBC) WITH SSI/DSA AMMENDMENTS.

B. RISK CATEGORY = III

D. LIVE LOADS:

1. ROOF = 20 PSF

E. WIND DESIGN DATA:
1. BASIC WIND SPEED = 100 mph (3 SECOND GUST)
2. EXPOSURE CATEGORY = C

F. SEISMIC DESIGN DATA:

1. I = 1.25
2. Fa = 1.2
3. Fv = N/A
4. Ss = 1.788
5. S1 = 0.722
6. SDS = 1.415
7. SD1 = N/A
8. SITE CLASS = D (DEFAULT)
9. SEISMIC DESIGN CATEGORY = D

IV. CONCRETE

A. MIXING, BATCHING, TRANSPORTING AND PLACING OF ALL CONCRETE SHALL CONFORM TO ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS.

B. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED.

C. THE SCHEDULE BELOW INDICATES THE MINIMUM CONCRETE DESIGN MIX REQUIREMENTS. SEE THE SPECIFICATIONS FOR ADDITIONAL CONCRETE PROPERTIES.

TYPE	LOCATION	MINIMUM 28-DAY STRENGTH (PSI)	MAXIMUM WEIGHT (PCF)	MAX W/C RATIO
A	SLAB ON GRADE	3000	150	0.5

D. CONCRETE CLEAR COVER OVER MILD REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER:
a. NO. 5 BARS AND SMALLER = 1-1/2"
b. NO. 6 BARS AND LARGER = 2"
3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
a. SLABS, WALLS, JOISTS:
4. NO. 11 BARS AND SMALLER = 3/4"
5. NO. 14 BARS AND LARGER = 1-1/2"
a. BEAMS, COLUMNS:
6. PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS = 1-1/2"
a. SHELLS, FOLDED PLATE MEMBERS:
7. NO. 5 BARS AND SMALLER = 1/2"
8. NO. 6 BARS AND LARGER = 3/4"

E. NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS.

F. CONSTRUCTION JOINTS

1. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED IN BEAMS, WALLS OR SLABS UNLESS APPROVED BY THE SEOR IN WRITING.
2. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TYPICAL CONSTRUCTION JOINT DETAILS.
3. ALL CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED AND CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL FINISHES AND TREATMENTS.
4. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS OR OTHER FOREIGN MATTER PRIOR TO PLACING ADJACENT CONCRETE.

V. REINFORCING STEEL

A. ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 AND ASTM A706 WHERE REQUIRED; ALL BARS TO BE GRADE 60 UNLESS OTHERWISE NOTED.

B. REINFORCING BARS TO BE WELDED SHALL BE ASTM A706.

C. WELDED WIRE REINFORCING SHALL BE ASTM A185.

D. WELDED BAR ANCHORS SHALL BE NELSON D2L DEFORMED BAR ANCHORS PER ICC-ES ESR-5217.

E. DETAIL REINFORCING STEEL BASED ON THE PROJECT REQUIREMENTS, ACI 318, AND ACI 315.

F. TERMINATION OF REINFORCEMENT:

1. TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS OR WITH DOWELS EPOXIED INTO EXISTING CONCRETE.
2. PROVIDE DOWELS INTO FOOTINGS BELOW AND SLABS ABOVE AT WALLS AND COLUMNS OF SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT.

G. WHERE A 90 DEGREE, 135 DEGREE OR 180 DEGREE HOOK IS GRAPHICALLY INDICATED, PROVIDE CORRESPONDING ACI STANDARD HOOK PER DETAIL 283/55.01.

H. SPLICES

1. LAP REINFORCING STEEL AS SPECIFICALLY DETAILED ON THE DRAWINGS. SEE REBAR OFFSET AND LAP SPLICE SCHEDULE IN DETAIL 7/55.01.
2. UNLESS OTHERWISE NOTED, ALL LAP SPLICES ARE TO BE CLASS B.
3. MECHANICAL SPLICES, IF USED AT CONTRACTOR'S OPTION, SHALL BE ICC-ES APPROVED AND CAPABLE OF DEVELOPING 125% OF THE SPECIFIED MINIMUM YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION.
4. LOCATE LAPS IN REINFORCING STEEL AS FOLLOWS:
a. TOP HORIZONTAL REINFORCEMENT IN BEAMS AND WALLS AT SUPPORTS.
b. BOTTOM HORIZONTAL REINFORCEMENT IN BEAMS AND WALLS AT MIDSPAN.
c. VERTICAL REINFORCEMENT AT INSIDE FACE OF WALL AT SUPPORTS.
d. VERTICAL REINFORCEMENT AT OUTSIDE FACE OF WALL AT MIDHEIGHT OF WALL.

VI. WOOD

A. ALL WOOD FRAMING SHALL CONFORM TO NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION AND APA PDS, PLYWOOD DESIGN SPECIFICATION.

B. ALL WOOD FRAMING SHALL BE DOUGLAS FIR LARCH, UNLESS OTHERWISE NOTED. GRADE SHALL BE AS FOLLOWS:
1. WALL STUDS = NO 2
2. SILL PLATES = PRESSURE TREATED
3. BLOCKING AND MISCELLANEOUS = NO 2

C. REJECTION OF WOOD MEMBERS: THE PROVISION IN DOC PS 20 (AS REFERENCED BY CBC 2303.1.1) WHICH PERMITS FIVE PERCENT OF THE MATERIAL TO FALL BELOW GRADE SHALL NOT BE CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD-CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIC ALLOWABLE STRESSES AND ACCEPTABLE SAFETY FACTORS. MATERIALS WHICH FALL BELOW GRADE SHALL BE REJECTED FOR LOAD-CARRYING USE. WOOD MEMBERS WHICH ARE REQUIRED TO CARRY DESIGN LOADS AND WHICH THE PROJECT ARCHITECT, SEOR OR INSPECTOR JUDGE TO BE MISGRADED SHALL BE REINSPECTED BY A QUALIFIED LUMBER GRADING INSPECTOR TO VERIFY THE PROPER GRADING OF THE MATERIAL. WOOD MEMBERS WHICH HAVE PERMISSIBLE GRADE CHARACTERISTICS OR DEFECTS IN SUCH COMBINATION AS TO AFFECT THE SERVICEABILITY OF THE MEMBER SHALL BE REJECTED BY THE PROJECT INSPECTOR WITH THE CONCURRENCE OF THE ARCHITECT OR SEOR.

D. ALL LUMBER IN CONTACT WITH CONCRETE OR CONCRETE MASONRY 0'-8" OR LESS ABOVE THE GROUND SHALL BE PRESSURE TREATED.

E. MAXIMUM MOISTURE CONTENT SHALL BE 15%AT TIME OF FRAMING FOR NEW WOOD MEMBERS ADJACENT TO EXISTING WOOD MEMBERS. ALL OTHER MEMBERS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF FRAMING. REFER TO ARCHITECTURAL DRAWINGS, PROJECT SPECIFICATIONS AND CLADDING MANUFACTURERS' INFORMATION FOR MORE STRINGENT MOISTURE CONTENT REQUIREMENTS.

F. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL PRODUCT IF APPROVED BY SEOR. SIMPSON DESIGNATIONS USED IN THESE DRAWINGS.

G. NAILS SHALL BE COMMON WIRE GAGE, UNLESS OTHERWISE NOTED AND CONFORM TO CBC TABLE 2304.10.1. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL OF THE PROJECT ARCHITECT, STRUCTURAL ENGINEER AND DSA.

H. LAG BOLTS AND UNFINISHED MACHINE BOLTS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

I. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR 36.

J. FASTENERS INSTALLED IN PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE GALVANIZED.

K. PROVIDE LATERAL SUPPORT FOR BEAMS, JOISTS, AND RAFTERS PER CBC SECTION 2308.8.5.

VII. POST-INSTALLED ANCHORS

A. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, EPOXY ANCHORS AND REINFORCING STEEL DOWELS, SCREW ANCHORS AND POWDER-ACTUATED FASTENERS. AS DETAILED IN THE DRAWINGS.

B. DO NOT DAMAGE OR CUT EXISTING REINFORCING STEEL WHILE INSTALLING POST-INSTALLED ANCHORS. NOTIFY SEOR IF EXISTING REINFORCING STEEL INTERFERES WITH INSTALLATION OF POST-INSTALLED ANCHORS.

C. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL NOT BE USED AND SHALL BE GROUTED SOLID.

D. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE ICC-ES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

E. PROVIDE SPECIAL INSPECTION FOR THE INSTALLATION OF ALL POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED.

F. FIELD TEST POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED. FIELD TESTING SHALL BE IN COMPLIANCE WITH THE FOLLOWING:

1. 10% OF POST-INSTALLED ANCHORS USED FOR SILL PLATE BOLTING SHALL BE TESTED; 100% OF ALL OTHER POST-INSTALLED ANCHORS USED FOR STRUTURAL APPLICATIONS SHALL BE TESTED.
2. 50% OF POST-INSTALLED ANCHORS USED FOR NON-STRUCTURAL APPLICATIONS SHALL BE TESTED, INCLUDING ONE HALF OF ALL ANCHORS IN EACH GROUP.
a. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE THAT ARE UNTESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS.
b. NO TESTING REQUIRED FOR POWDER-ACTUATED FASTENERS USED TO ATTACH TRACKS OF INTERIOR, NON-STRUCTURAL PARTITION WALLS WHERE THERE ARE AT LEAST THREE FASTENERS PER PIECE OF TRACK.
3. NO TESTING REQUIRED OF REINFORCING STEEL DOWELS ACROSS COLD JOINTS IN CONCRETE SLABS ON GRADE.
4. TORQUE TESTING MAY BE USED FOR TORQUE CONTROLLED POST-INSTALLED ANCHORS; TENSION TEST ALL OTHER POST-INSTALLED ANCHORS.
5. TORQUE TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1910A.5.5.2.
6. TENSION TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1910A.5.5.1.
7. ALL FIELD TESTING SHALL BE DONE UNDER THE OBSERVATION OF THE PROJECT INSPECTOR.
8. TESTING SHALL OCCUR AT LEAST 24 HOURS AFTER THE ANCHOR HAS BEEN INSTALLED.

G. EPOXY ANCHORS AND REINFORCING STEEL DOWELS

1. FOR INSTALLATION IN CONCRETE, EPOXY SHALL BE ONE OF THE FOLLOWING:
a. SET-XP PER ICC-ES ESR-2508 AS MANUFACTURED BY SIMPSON STRONG TIE
b. HIT-RE 500-SD PER ICC-ES ESR-2322 AS MANUFACTURED BY HILTI, INC.
c. HY-200 MAX-SD PER ICC-ES ESR-3187 AS MANUFACTURED BY HILTI, INC.
2. FOR INSTALLATION IN FULLY-GROUTED MASONRY, EPOXY SHALL BE ONE OF THE FOLLOWING:
a. SET-HIGH STRENGTH PER ICC-ES ESR-2508 AS MANUFACTURED BY SIMPSON STRONG TIE
b. HIT-RE PER ICC-ES ESR-1967 AS MANUFACTURED BY HILTI, INC.
3. EPOXIED ANCHOR RODS SHALL BE CARBON STEEL THREADED RODS PER APPROPRIATE ICC-ES REPORT; EPOXIED REINFORCING STEEL DOWELS SHALL BE ASTM A615 GR 60 UNLESS OTHERWISE NOTED. MINIMUM ANCHOR EMBEDMENT AND TENSION TEST VALUES ARE AS FOLLOWS:

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (f'c = 3000 PSI MIN)					
THREADED ROD DIAMETER (IN)	EMBED (IN)	TENSION TEST VALUE (LBS)			
		HY-200 MAX-SD	HIT-RE 500-SD	SET-XP	
3/8	3	3360	3510	3620	
1/2	4	6010	6150	5690	
5/8	5	9440	9330	7640	
3/4	6	7120	12860	9770	
7/8	7	15750	13620	12250	
1	8	20670	16440	15430	
1 1/4	10	32500	22060	24100	

ANCHORS SHALL NOT BE INSTALLED INTO CONCRETE THAT IS LESS THAN 21 DAYS OLD.

H. EXPANSION ANCHORS

1. FOR INSTALLATION IN CONCRETE, EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING:
a. STRONG BOLT 2 PER ICC-ES ESR-3037 AS MANUFACTURED BY SIMPSON STRONG TIE.
b. KWIK BOLT T22 PER ICC-ES ESR-4266 AS MANUFACTURED BY HILTI, INC.
2. USE STAINLESS STEEL AT EXTERIOR, WEATHER-EXPOSED OR DAMP LOCATIONS; CARBON STEEL EXPANSION ANCHORS MAY BE USED AT ALL OTHER LOCATION, UNLESS OTHERWISE NOTED.
3. MINIMUM ANCHOR EMBEDMENT AND TORQUE TEST VALUES ARE AS FOLLOWS:

KWIK BOLT T22 IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE		TORQUE TEST VALUE (FT-LBS)
		DEPTH (IN)	VALUE (FT-LBS)	
3/8	2 5/16	2 5/8		30
1/2	2 3/8	2 5/8		50
5/8	4 1/16	4 3/4		60
3/4	5 9/16	5 3/4		125

STRONG BOLT 2 IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE		TORQUE TEST VALUE (FT-LBS)
		DEPTH (IN)	VALUE (FT-LBS)	
3/8	1 7/8	2		30
1/2	2 3/4	3		60
5/8	5 3/8	5 3/8		90
3/4	5 1/4	6		150

4. WHERE EXPANSION ANCHORS ARE INSTALLED IN CONTACT WITH WOOD FRAMING, PROVIDE AN OVERSIZE WASHER IN ORDER TO ACHIEVE TORQUE REQUIRED BY ICC-ES REPORT. USE 1/4"x3"x3" WASHER, MINIMUM.
5. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER AND NUT.

I. SCREW ANCHORS

1. FOR INSTALLATION IN CONCRETE, SCREW ANCHORS SHALL BE ONE OF THE FOLLOWING:
a. TITEN HD PER ICC-ES ESR-2713 AS MANUFACTURED BY SIMPSON STRONG TIE.
b. KWIK HUS-EZ PER ICC-ES ESR-3027 AS MANUFACTURED BY HILTI, INC.
2. MINIMUM ANCHOR EMBEDMENT AND TENSION TEST VALUES ARE AS FOLLOWS:

TITEN HD IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE		TENSION TEST VALUE (FT-LBS)
		DEPTH (IN)	VALUE (FT-LBS)	
3/8	2 1/2	3		1200
1/2	3 1/4	3 3/4		2973
5/8	4	4 1/2		3935
3/4	5 1/2	6		5895

KWIK HUS-EZ IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE		TENSION TEST VALUE (FT-LBS)
		DEPTH (IN)	VALUE (FT-LBS)	
1/4	2 1/2	2 7/8		1133
3/8	2 1/2	2 3/4		2093
1/2	2 1/4	2 5/8		1547
5/8	3 1/4	3 5/8		3049
3/4	4	4 3/8		4118

J. POWDER-ACTUATED FASTENERS

1. PAF SHALL BE ONE OF THE FOLLOWING:
a. SIMPSON STRONG TIE POWDER-ACTUATED FASTENERS PER ICC-ES ESR-2138 FOR ANCHORAGE OF METAL TO CONCRETE, MASONRY OR STEEL.
b. HILTI, INC. X-J PER ICC-ES ESR-2289 FOR ANCHORAGE OF METAL TO CONCRETE, MASONRY OR STEEL.
c. HILTI, INC. X-CP 72 PER ICC-ES ESR-2379 FOR ANCHORAGE OF SILL PLATES TO CONCRETE.
d. DEWALT POWDER-ACTUATED FASTENERS PER ICC-ES ESR-2024 FOR ANCHORAGE OF METAL TO CONCRETE, MASONRY OR STEEL AND ANCHORAGE OF WOOD SILLS TO CONCRETE.
2. PROVIDE 0.08"x1.1"x1.1" SQUARE OR 0.08"x1.425" DIAMETER ROUND WASHER AT EACH PAF.
3. MINIMUM PAF EMBED INTO CONCRETE SHALL BE 1", UNLESS OTHERWISE NOTED.
4. MINIMUM PAF EMBED INTO STEEL SHALL BE PER MANUFACTURER.

VIII. STRUCTURAL TESTS / SPECIAL INSPECTIONS

A. THE FOLLOWING ITEMS ARE EXEMPT FROM DSA REQUIREMENTS FOR STRUCTURAL TESTS / SPECIAL INSPECTION PER DSA FORM 103 AND SPECIFICATIONS:

1. BATCH PLANT INSPECTION OF CONCRETE IS WAIVED IN COMPLIANCE WITH CBC SECTION 1705A.3.3.2. SEE SPECIFICATIONS FOR REQUIRED CERTIFICATION OF CEMENT AND REINFORCING, TAKING AND SAMPLING OF STRENGTH TEST, AND PROVISION OF WEIGHMASTER'S BATCH TICKETS.

2. TESTING OF REINFORCING BARS IS NOT REQUIRED SUBJECT TO THE REQUIREMENTS AND LIMITATIONS GIVEN IN CBC SECTION 1910A.2.

3. MANUFACTURED SUPPORT FRAMES AND CURBS USING HOT ROLLED OR COLD-FORMED STEEL FOR MECHANICAL, ELECTRICAL, OR PLUMBING EQUIPMENT WEIGHING LESS THAN 2000#.

4. MANUFACTURED COMPONENTS FOR MECHANICAL, ELECTRICAL, OR PLUMBING HANGER SUPPORT AND BRACING.

5. ANY SUPPORT FOR EXEMPT NON-STRUCTURAL COMPONENTS GIVEN IN CBC SECTION 1617A.1.18 MEETING THE FOLLOWING: A) WHEN SUPPORTED ON A FLOOR/ROOF, < 400# AND RESULTING COMPOSITE CENTER OF MASS < 4' ABOVE SUPPORTING FLOOR/ROOF. B) WHEN HUNG FROM A WALL OR ROOF/FLOOR, < 20# FOR DISCRETE UNITS OR < 5 PLF FOR DISTRIBUTED SYSTEMS.

ABBREVIATION

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
(E)	EXISTING	LLV	LONG LEG VERTICAL
(N)	NEW	LOC	LOCATION
AB	ANCHOR BOLT	LONG	LONGITUDINAL
ADDL	ADDITIONAL	LW	LIGHTWEIGHT
ALT	ALTERNATE	LWC	LIGHTWEIGHT CONCRETE
APPRX	APPROXIMATE	MATL	MATERIAL
AR	ANCHOR ROD	MAX	MAXIMUM
ARCH	ARCHITECT OR ARCHITECTURAL	MB	UNFINISHED MACHINE BOLT
AVG	AVERAGE	MECH	MECHANICAL
BLDG	BUILDING	MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
BLKG	BLOCKING		
BM	BEAM	MEZZ	MEZZANINE
BOT	BOTTOM	MFR	MANUFACTURER
BRDG	BRIDGING	MID	MIDDLE
BTWN	BETWEEN	MIN	MINIMUM
CIP	CAST-IN-PLACE	MISC	MISCELLANEOUS
CJ	CONTROL/CONSTRUCTION JOINT	MTL	METAL
CJP	COMPLETE JOINT PENETRATION	N/A	NOT APPLICABLE
CL	CENTER LINE	NIC	NOT IN CONTRACT
CLR	CLEAR OR CLEARANCE	NO	NUMBER
COL	COLUMN	NOM	NOMINAL
CONC	CONCRETE	NS	NEAR SIDE
CONN	CONNECTION(S)	NTS	NOT TO SCALE
CONST	CONSTRUCTION	NW	NORMAL WEIGHT
CONT	CONTINUOUS	NWC	NORMALWEIGHT CONCRETE
CTR	CENTER	OC	ON CENTER
CTRD	CENTERED	OD	OUTSIDE DIAMETER
CTRSK	COUNTERSINK	OF	OUTSIDE FACE
db	DIAMETER OF BOLT OR REBAR	OH	OPPOSITE HAND
DBL	DOUBLE	OPNG(S)	OPENING(S)
DEMO	DEMOLISH	OPP	OPPOSITE
DET	DETAIL	OSB	ORIENTED STRAND BOARD
DF	DOUGLAS FIR	PAF	POWDER ACTUATED FASTENER
DIA	DIAMETER	PERP	PERPENDICULAR
DIAG	DIAGONAL	PL	PLATE
DIM(S)	DIMENSION(S)	PLY	PLYWOOD
DL	DEAD LOAD	PSF	POUNDS PER SQUARE FOOT
DWG(S)	DRAWING(S)	PSI	POUNDS PER SQUARE INCH
DWL	DOWEL(S)	PSL	PARALLEL STRAND LUMBER
EA	EACH	RAD	RADIUS
ECC	ECCENTRICITY	REF	REFERENCE
EF	EACH FACE	REINF	REINFORCE(D) (ING) OR (MENT)
EJ	EXPANSION JOINT	REQD	REQUIRED
EL	ELEVATION	REV	REVISION
ELEC	ELECTRICAL	RWD	REDWOOD
EMBED	EMBEDMENT	SAD	SEE ARCHITECTURAL DRAWINGS
EN	EDGE NAIL	SCD	SEE CIVIL DRAWINGS
ENGR	ENGINEER	SCHED	SCHEDULE(D)
EOS	EDGE OF SLAB	SECT	SECTION
EQ	EQUAL	SEOR	STRUCTURAL ENGINEER OF RECORD
EQUIP	EQUIPMENT		
ES	EACH SIDE	SF	SQUARE FOOT (FEET)
EW	EACH WAY	SHT	SHEET
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SLRS	SEISMIC LOAD RESISTING SYSTEM
FF	FINISH FLOOR		
FIN	FINISH(ED)	SMD	SEE MECHANICAL DRAWINGS
FLR	FLOOR	SMS	SHEET METAL SCREW(S)
FN	FIELD NAILING	SOG	SLAB ON GRADE
FND	FOUNDATION	SP	SPACE
FO	FACE OF	SPEC(S)	SPECIFICATION(S)
FRM'G	FRAMING	SQ	SQUARE
FS	FAR SIDE	STAGG'D	STAGGERED
FTG	FOOTING	STD	STANDARD
GA	GAGE, GAUGE	STIFF	STIFFENER
GALV	GALVANIZED	STL	STEEL
GB	GRADE BEAM	STR	STRUCTURE
GEN	GENERAL	STRCTL	STRUCTURAL
GLB	GLUE-LAMINATED BEAM	SYMM	SYMMETRICAL
GR	GRADE	T&B	TOP AND BOTTOM
GYP	GYPSUM	T&G	TONGUE AND GROOVE
HD	HOLDOWN	TD	TIE DOWN
HDR	HEADER	TEMP	TEMPERATURE OR TEMPORARY
HGR	HANGER	THK	THICK OR THICKNESS
HK	HOOK	THRD'D	THREADED
HORIZ	HORIZONTAL	TO	TOP OF
HT	HEIGHT	TRANSV	TRANSVERSE
HVAC	HEATING VENTING AND AIR CONDITIONING	TYP	TYPICAL
ID	INSIDE DIAMETER	UON	UNLESS OTHERWISE NOTED
IF	INSIDE FACE	VERT	VERTICAL
INFO	INFORMATION	VIF	VERIFY IN FIELD
INT	INTERIOR	W/	WITH
JH	JOIST HANGER	W/O	WITHOUT
JST(S)	JOIST(S)	WD	WOOD
JT	JOINT	WF	WIDE FLANGE
LBS	POUNDS	WP	WORK POINT
LL	LIVE LOAD	WT	WEIGHT
LLH	LONG LEG HORIZONTAL	WWR	WELDED WIRE REINFORCEMENT

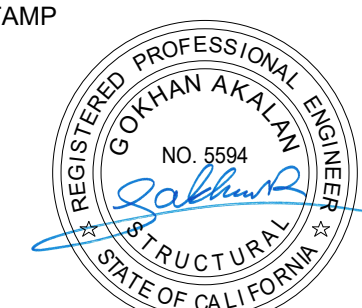
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STATE
DSA FILE NUMBER 41-26
APPL # 01-119526

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No.	Description	Date
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MILESTONES

DD	
90% CD	
DSA SUB	05/24/2021
BACKCHECK	10/22/2021

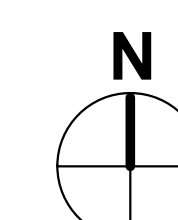
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**EXISTING ROOF
FRAMING PLANS -
BLDGS A, B & C**

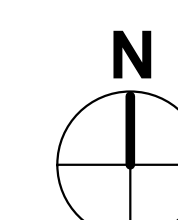
DATE 10/22/2021
JOB # 2021005.05
SHEET #

SHEET #

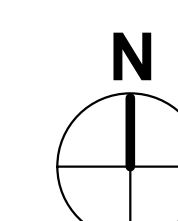
S2.01



1 EXISTING ROOF FRAMING PLAN - BLDG A



2 EXISTING ROOF FRAMING PLAN - BLDG B



2 EXISTING ROOF FRAMING PLAN - BLDG C

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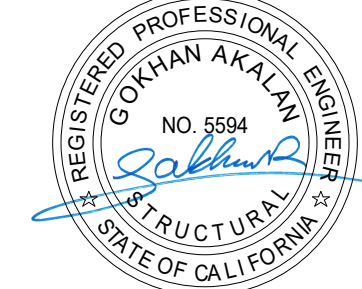
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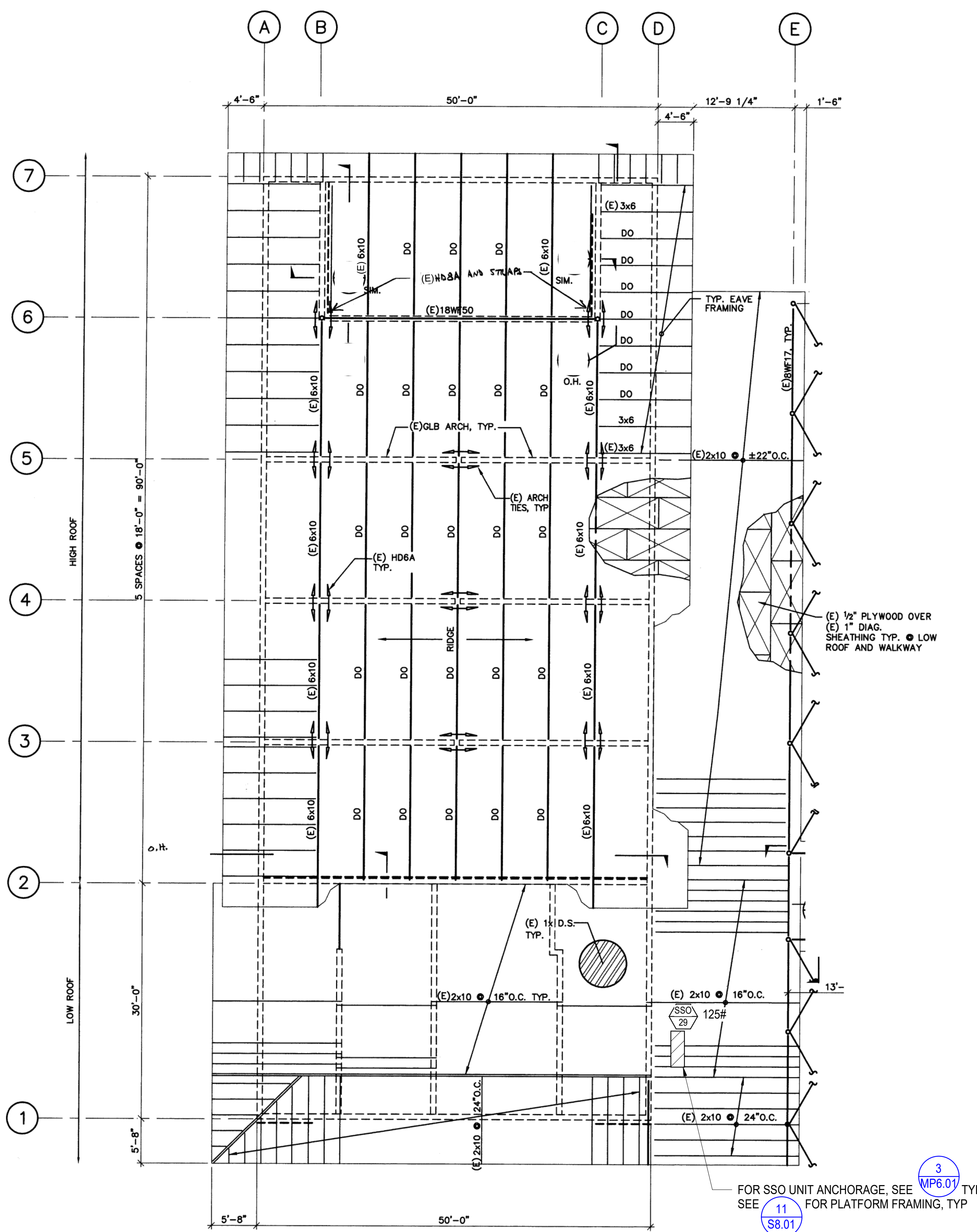
**EXISTING ROOF
FRAMING PLAN -
BLDGS D & E**

DATE 10/22/2021

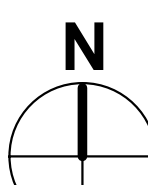
JOB # 2021005.05

SHEET #

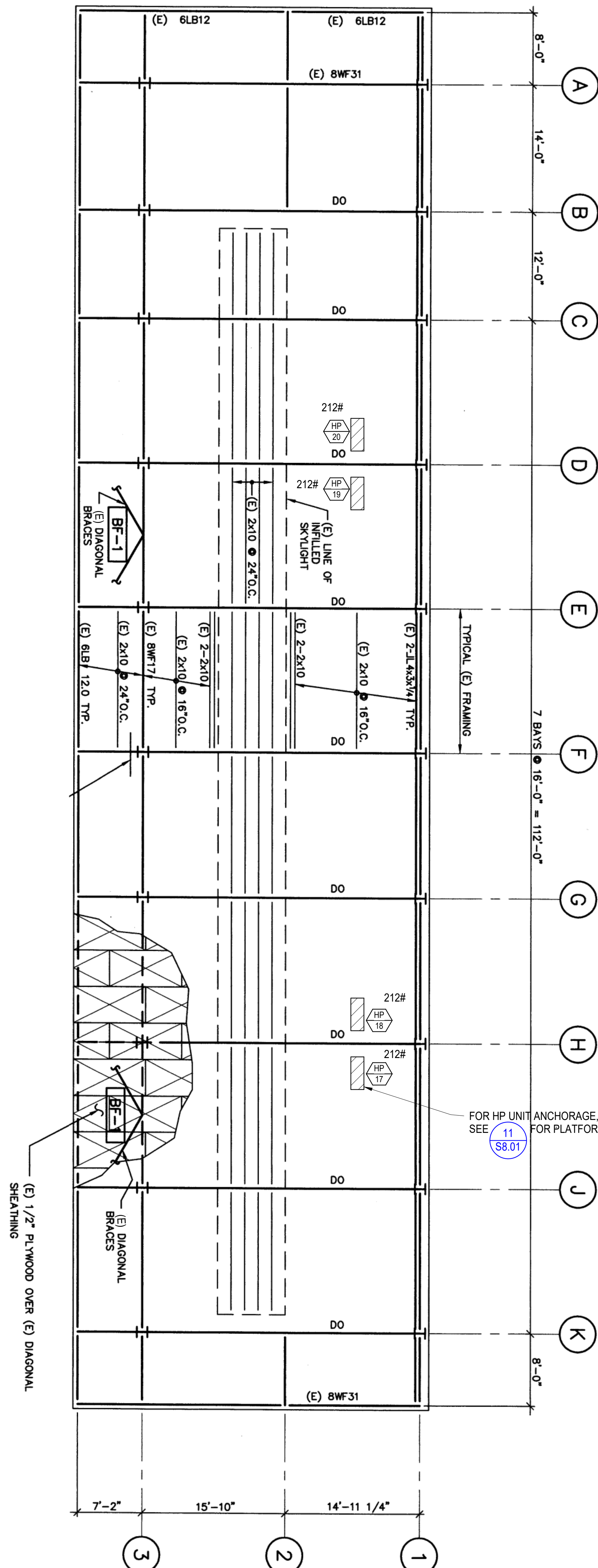
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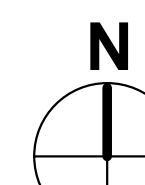
2 EXISTING ROOF FRAMING PLAN - BLDG E



NTS



1 EXISTING ROOF FRAMING PLAN - BLDG D



NTS

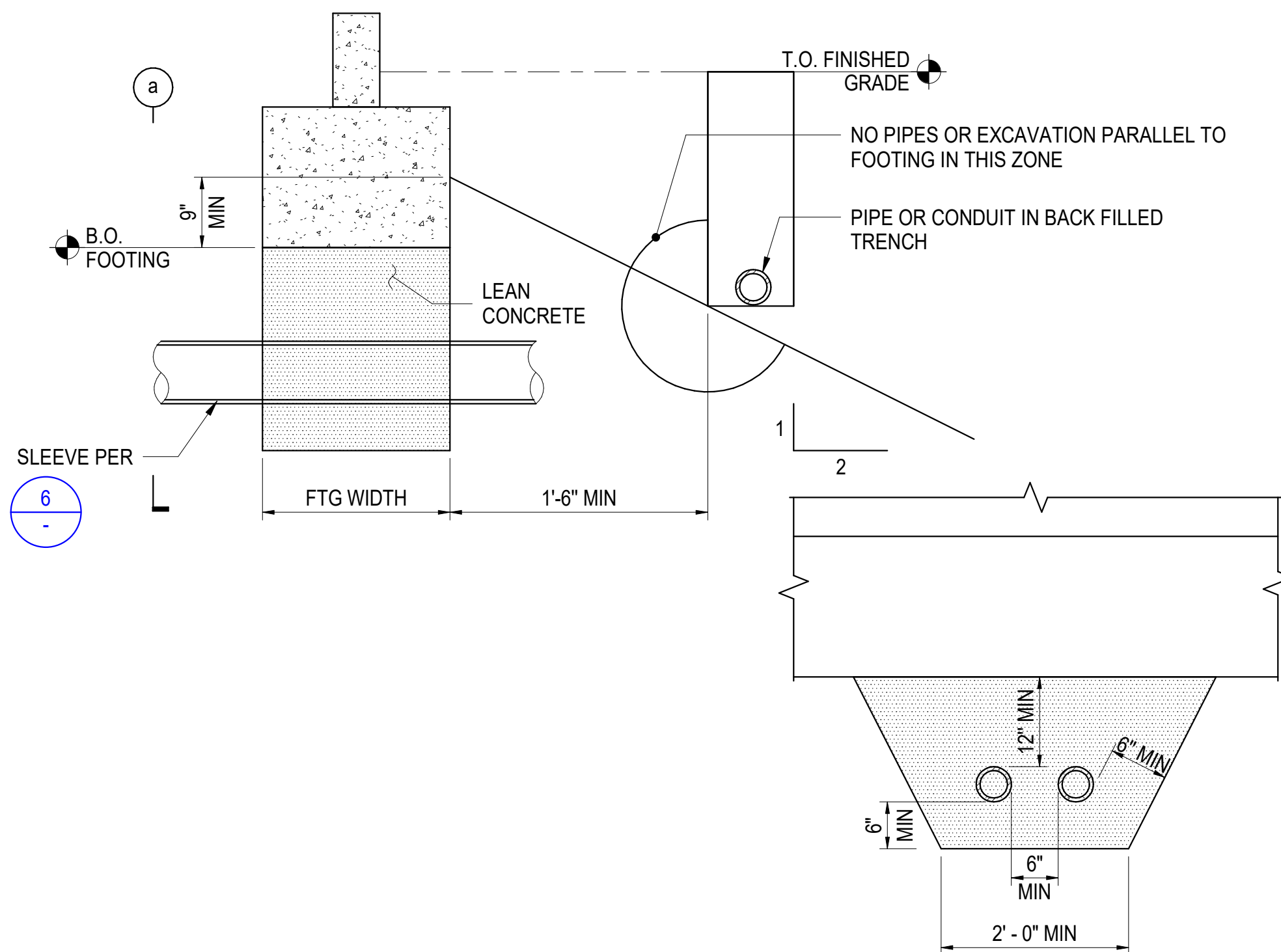
SHEET NOTES:

- LOCATIONS OF MECHANICAL UNITS ARE SHOWN FOR REFERENCE ONLY. SEE ¹⁶_{A8.10}, MP/2.03 AND MP/2.04 FOR UNIT LOCATIONS.
- EXISTING STRUCTURAL FRAMING PLAN SHOWN IS TAKEN FROM DSA APPROVED AS-BUILT DRAWINGS AND IS SHOWN FOR REFERENCE ONLY.
- SEE GENERAL NOTES ON SHEET S1.01.
- SEE TYPICAL FRAMING DETAILS ON SHEET S8.01.

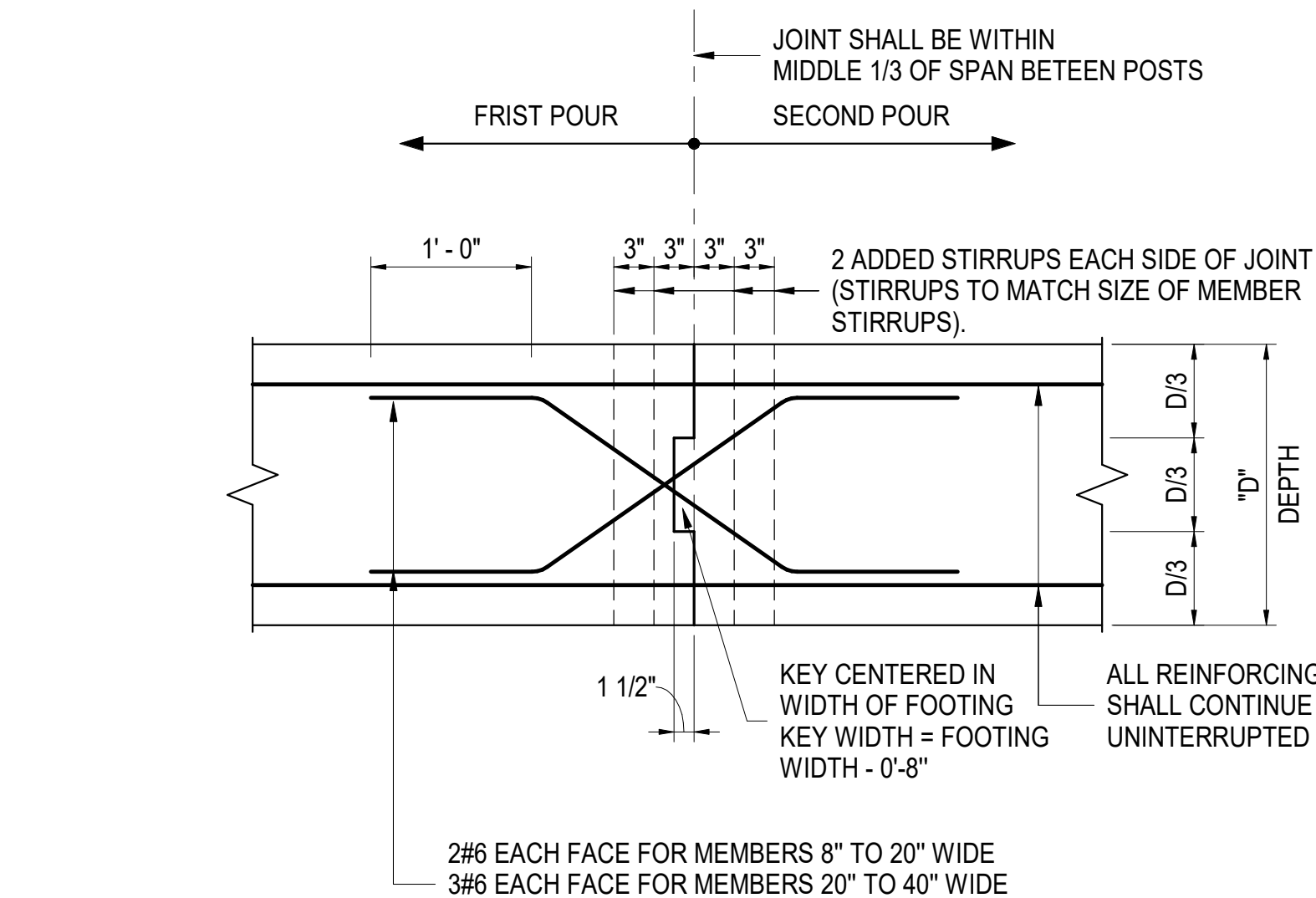
CONCRETE STRENGTH		3000 PSI			
REINFORCING CONFIGURATION		CASE 1		CASE 2	
BAR LOCATION		TOP	OTHER	TOP	OTHER
"CLASS A LAP SPlice AND STRAIGHT DEVELOPMENT LENGTH" Ld (INCHES)	#3	22	17	32	25
	#4	29	22	43	33
	#5	36	28	54	41
	#6	43	33	64	50
	#7	63	48	94	72
CLASS B LAP SPlice (INCHES)	#3	28	22	42	32
	#4	37	29	56	43
	#5	47	36	70	54
	#6	56	43	84	64
	#7	81	63	122	94

- NOTES:
- VALUES IN THE TABLE ARE FOR NON-EPOXY COATED GRADE 60 REINFORCING STEEL AND NORMAL WEIGHT CONCRETE.
 - CASES 1 AND 2 ARE DEPENDENT ON THE TYPE OF CONCRETE ELEMENT, CONCRETE COVER AND CENTER-TO-CENTER SPACING OD REINFORCING BARS. THEY ARE DEFINED AS:
CASE 1:
BEAM AND COLUMNS:
- CONCRETE COVER \geq db
- CENTER-TO-CENTER SPACING \geq 2x db, AND
- STIRRUPS OR TIES PROVIDED THROUGHOUT Ld
OTHER ELEMENTS:
- CONCRETE COVER \geq db AND
- CENTER-TO-CENTER SPACING \geq 3x db
CASE 2:
BEAM AND COLUMNS:
- CONCRETE COVER $<$ db
- CENTER-TO-CENTER SPACING $<$ 2x db
OTHER ELEMENTS:
- CONCRETE COVER $<$ db AND
- CENTER-TO-CENTER SPACING $<$ 2x db
 - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW. OTHER BAR INCLUDE ALL VERTICAL REINFORCING, ALL HORIZONTAL WALL REINFORCING AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF RESH CONCRETE BELOW BAR.
 - PROVIDE CLASS B LAP SPLICES, U.O.N.
 - FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE VALUES IN THIS TABLE BY 1.3.
 - WHERE Ld IS NOT OBTAINABLE DUE TO SPACE RETRICTIONS, PROVIDE A STANDARD HOOK PER DETAIL 2.
 - FOR EPOXY-COATED BARS, MULTIPLY THE VALUE IN THIS TABLE BY 1.5.
 - SPLICES OF HORIZONTAL REINFORCING BARS IN WALLS AND SLABS SHALL BE STAGGERED. SPLICES OF HORIZONTAL REINFORCING BARS IN WALLS AND SLABS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION; SPLICES SHALL BE OFFSET BY THE MAXIMUM OF 12 INCHES AND 12 BAR DIAMETERS.
 - SEE SHORTCRETE NOTES FOR LAP SPLICES IN SHOTCRETE WALLS.
 - MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES. MECHANICAL COUPLERS SHALL HAVE AN APPROVED ICC REPORT AND RESIST 125% OF REINFORCING BAR YIELD STRENGTH.
 - WHERE BARS OF DIFFERENT SIZES ARE SPLICED, SPLICE LENGTH SHALL BE THE MAXIMUM OF Ld OF THE LARGER BAR AND THE LAP SPLICE LENGTH OF THE SMALLER BAR.
 - LAP TOP BARS AT MIDSPAN AND BOTTOM BARS AT SUPPORT, U.O.N.
 - NON-CONTACT LAP SPLICED BARS SHALL BE SPLACED AT LEAST 1 1/2" AND NO MORE THAN THE MAXIMUM OF ONE-FIFTH OF THE LAP SPLICE AND 6".

7 LAP SPLICE + STRAIGHT BAR DEVELOPMENT LENGTHS

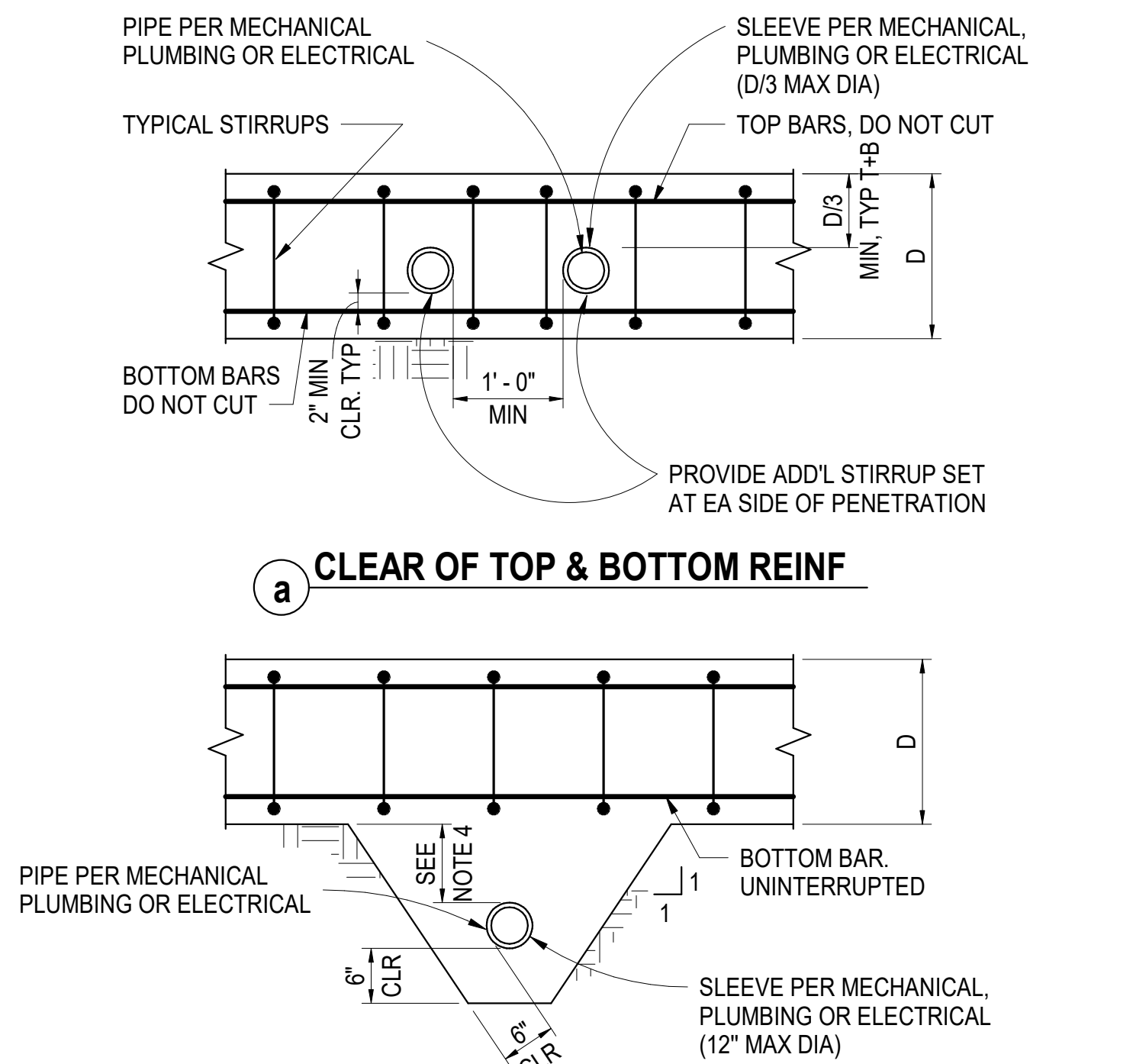


8 TYPICAL EXCAVATION PARALLEL TO FTG

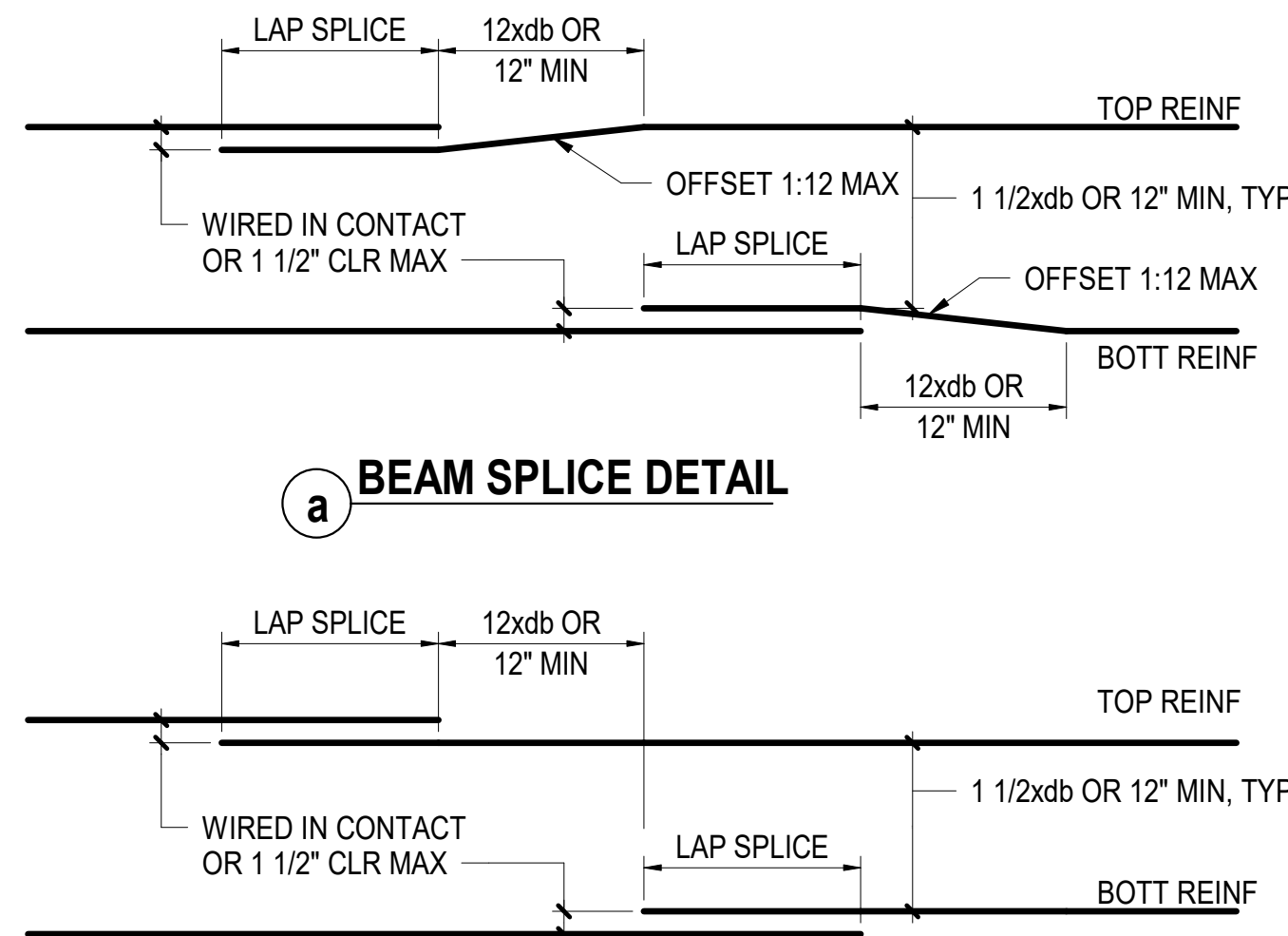


9 CONTINUOUS FOOTING CONSTRUCTION JOINT DETAIL

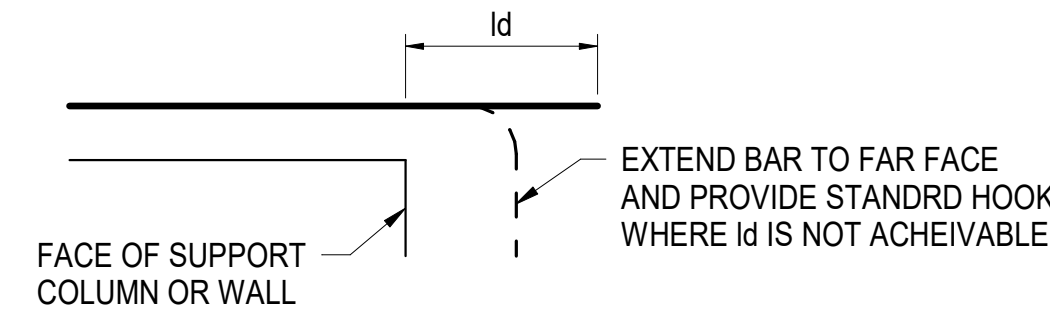
10 TYPICAL FOOTING PENETRATION



- NOTES:
- ALL PIPES AND CONDUITS SHALL CLEAR SLEEVE BY 1" ALL AROUND U.O.N.
 - SEAL VOID BETWEEN PIPE AND SLEEVE WITH ELASTIC WATERPROOF MATERIAL, TYP.
 - DETAIL APPLICABLE TO MAXIMUM 8" DIA SLEEVE.
 - NO FTG EXTENSION REQ'D FOR PIPE DEEPER THAN 12" BELOW FTG (SLEEVE STILL REQ'D). SEE DETAIL 8 ON THIS SHEET.
 - WHERE PENETRATION CONFLICTS WITH REBAR TIE, OMIT TIE & PROVIDE 1 ADDITIONAL TIE EA SIDE OF SLEEVE.
 - IF PIPE OR CONDUIT SLEEVE IS ASTM A53 SCHEDULE 40 OR GREATER PIPE, ADDITIONAL STIRRUPS MAY BE ELIMINATED, SLEEVE SHALL GALVAIZED.



12 STRAGGERED WALL OR SLAB SPLICE DETAIL

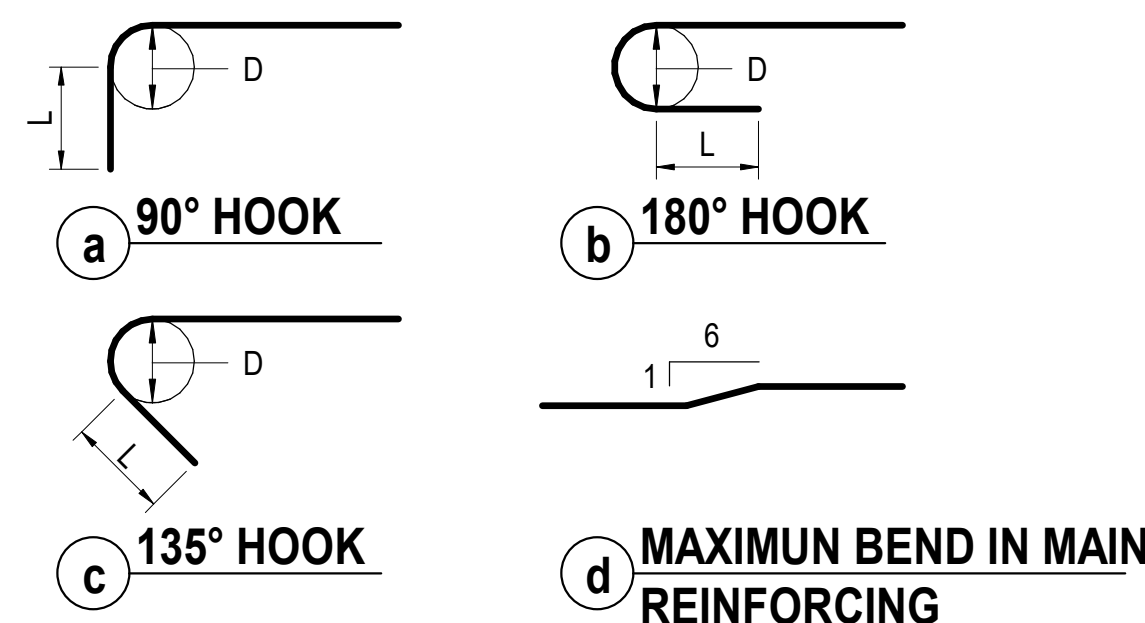


13 BEAM AT SUPPORT

BAR SIZE	HOOKED BAR DEVELOPMENT LENGTH, Ldh		
	3000 PSI	4000 PSI	5000 PSI
#3	0' - 8"	0' - 7"	0' - 6"
#4	0' - 11"	0' - 9"	0' - 9"
#5	1' - 2"	1' - 0"	0' - 11"
#6	1' - 4"	1' - 2"	1' - 1"
#7	1' - 7"	1' - 5"	1' - 3"

- NOTES:
- THE HOOKED BAR DEVELOPMENT LENGTHS IN THIS TABLE ARE FOR NORMALWEIGHT CONCRETE. FOR LIGHTWEIGHT CONCRETE, THE HOOKED BAR DEVELOPMENT LENGTH SHALL NOT BE LESS THEN 10xdb, 7 1/2" AND 1.3xLdh PER THE TABLE ABOVE.
 - THE HOOKED BAR DEVELOPMENT LENGTHS IN THIS TABLE APPLY TO MEMBERS WITH:
a. SIDE COVER EQUAL TO AT LEAST 2 1/2".
b. END COVER EQUAL TO AT LEAST 2".

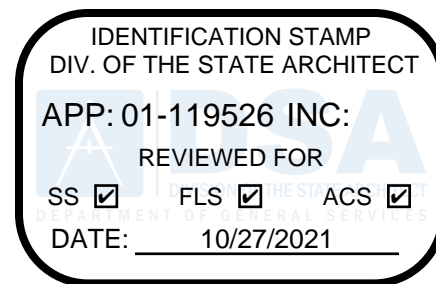
14 HOOKED BAR DEVELOPMENT LENGTHS



MAIN REINFORCING HOOKS			
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)
#3	2 1/4	4 1/2	2 1/2
#4	3	6	2 1/2
#5	3 3/4	7 1/2	2 1/2
#6	4 1/2	9	3
#7	5 1/4	10 1/2	3 1/2

STIRRUP + TIE REINFORCING HOOKS			
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)
#3	1 1/2	3	3
#4	2	3	3
#5	2 1/2	3 3/4	3 3/4
#6	4 1/2	9	4 1/2
#7	5 1/4	10 1/2	5 1/4

15 TYPICAL BAR HOOKS



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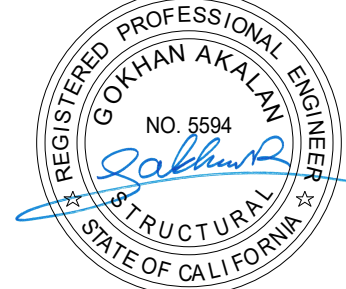
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FILE NUMBER
41-26

APPL #
01-119526

REVISIONS

No. Description Date

MILESTONES

DD

90% CD

DSA SUB 05/24/2021

BACKCHECK 10/22/2021

SHEET

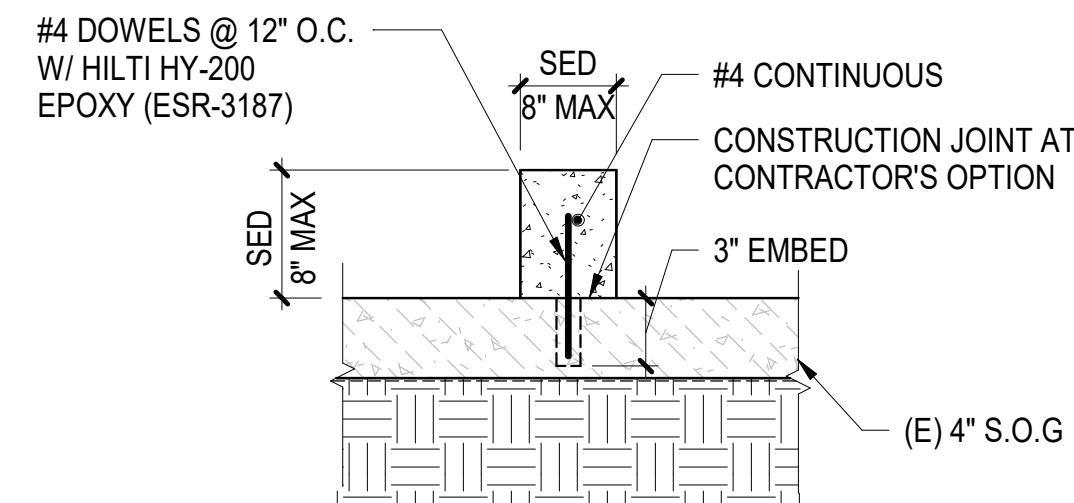
TYPICAL
CONCRETE
DETAILS

DATE
10/22/2021

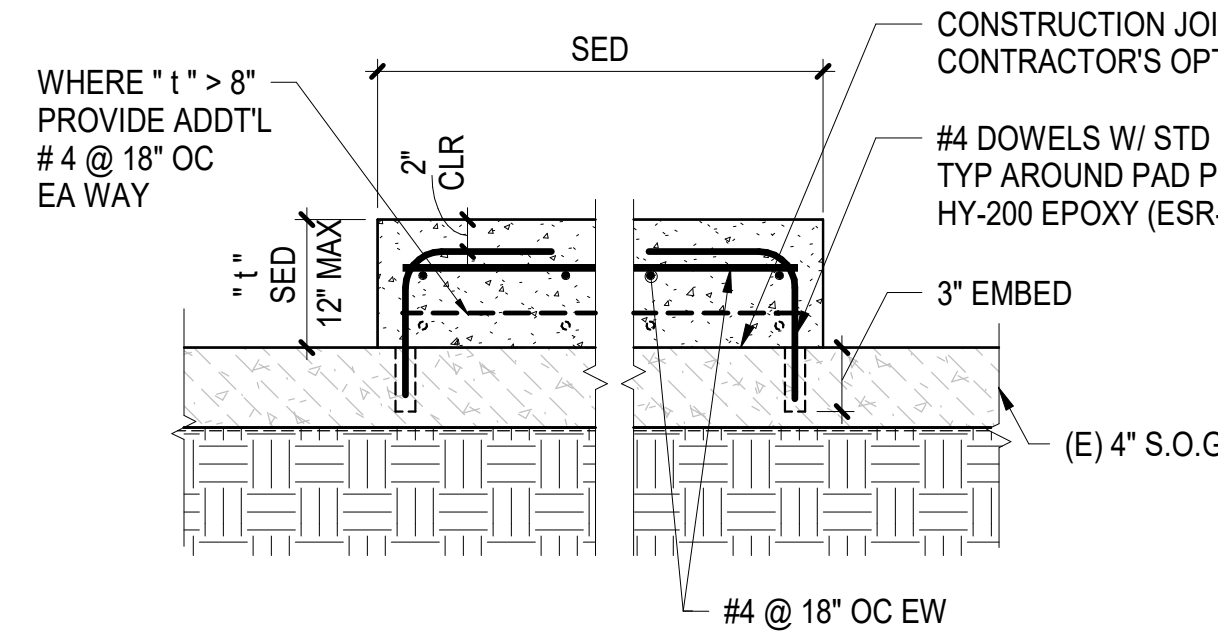
JOB #
2021005.05

SHEET #

S5.01



B CURB AT SLAB-ON-GRADE



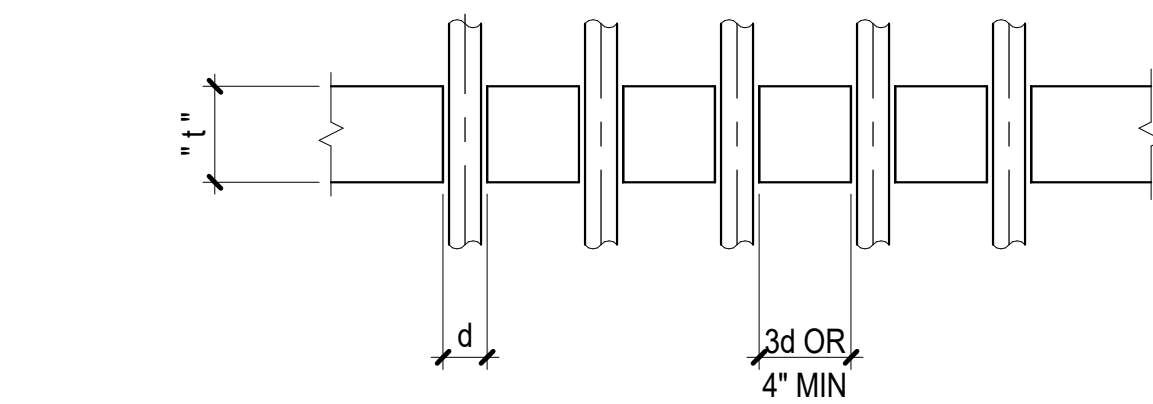
A CURB WIDTH > 8"

9 CURBS AND HOUSEKEEPING PADS AT (E) S.O.G

NTS

5 SLAB-ON-GRADE DETAIL

NTS

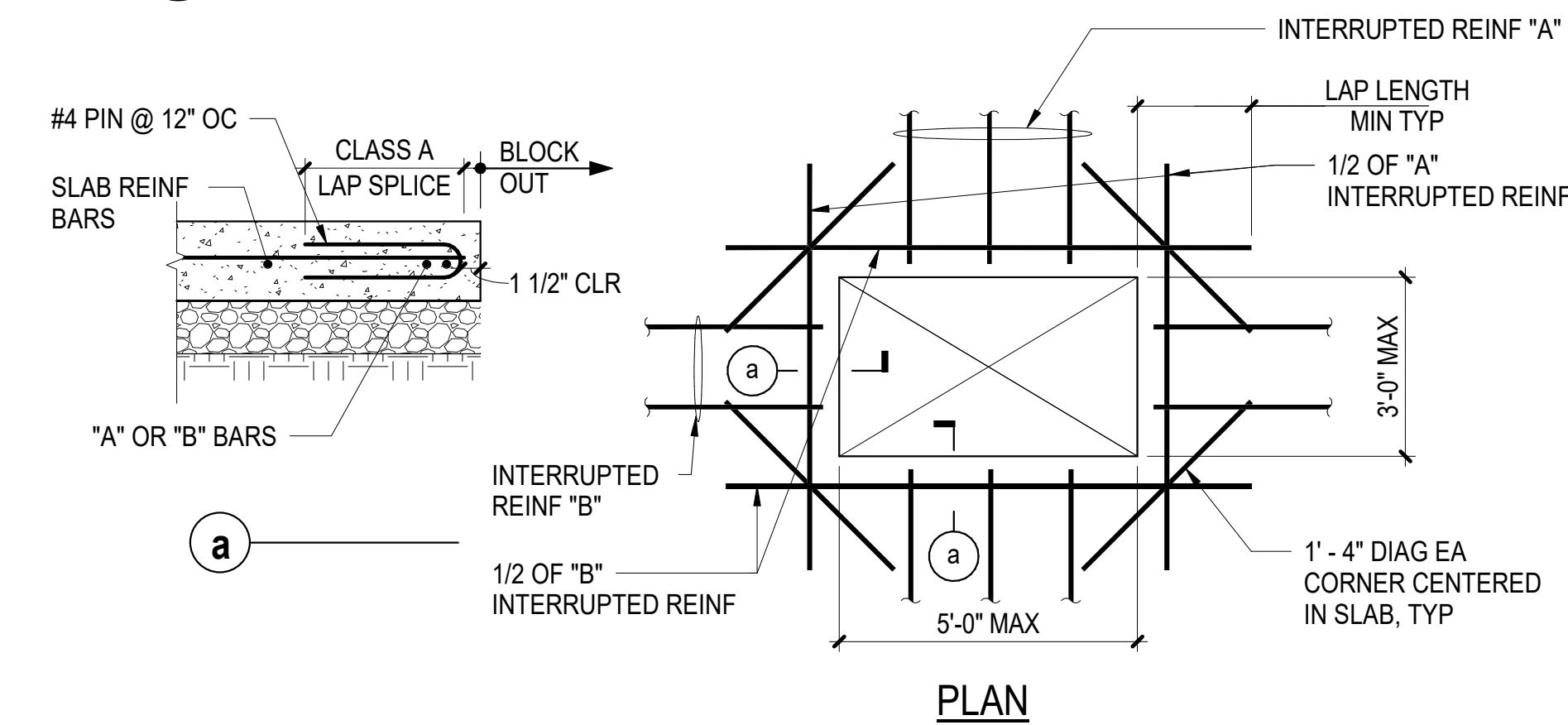


- NOTES:
1. DO NOT CUT REINFORCING.
2. IF 4" MINIMUM CLEAR DISTANCE BETWEEN SLEEVES IS NOT POSSIBLE, THIS CONDITION SHALL BE TREATED AS A SLAB OPENING PER DETAIL.
3. USE OF ALUMINUM CONDUIT IS PROHIBITED.

7
-

6 PIPING & CONDUIT THROUGH SLAB

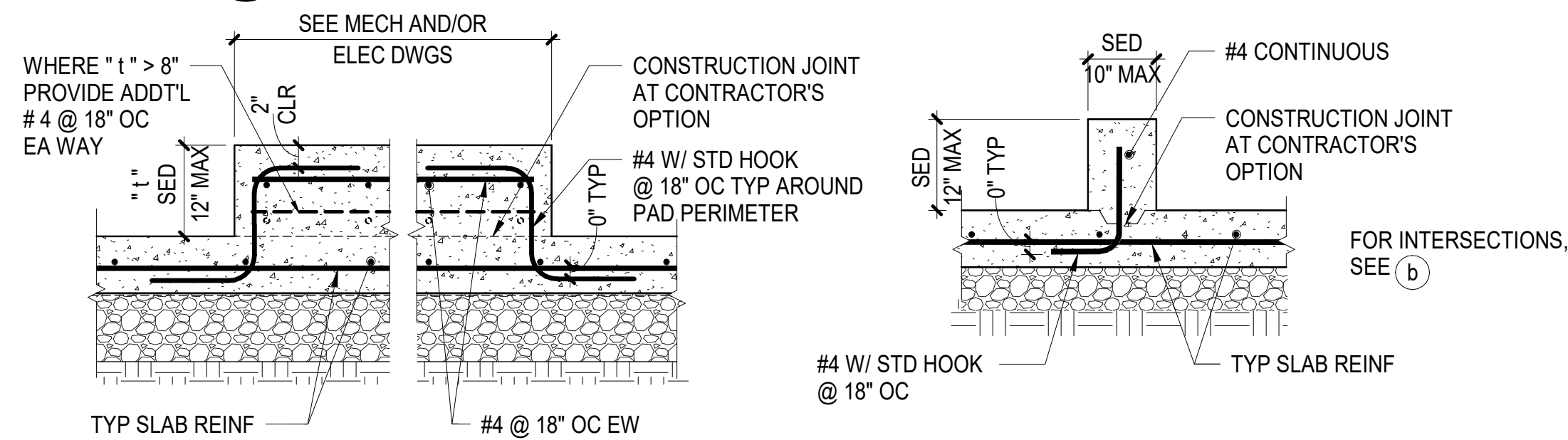
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- NOTES:
1. OPENING SIZE, LOCATION, AND REINFORCING SHALL BE SUBMITTED AS PART OF THE REINFORCING SHOP DRAWING SUBMITTAL FOR REVIEW AND APPROVAL.
2. AT EACH SIDE OF THE OPENING, ADD NOT LESS THAN ONE-HALF THE AREA OF REINFORCING THAT IS INTERRUPTED BY THE OPENING. WHERE THE BAR LENGTH PAST THE OPENING IS INTERRUPTED BY AN EDGE OF SLAB, PROVIDE A STANDARD HOOK AT THE DISCONTINUOUS END.
3. WHERE THE DIAGONAL LENGTH IS INTERRUPTED BY AN EDGE OF SLAB, PROVIDE A STANDARD HOOK.
4. NOT REQUIRED AT COLUMN LOCATIONS.

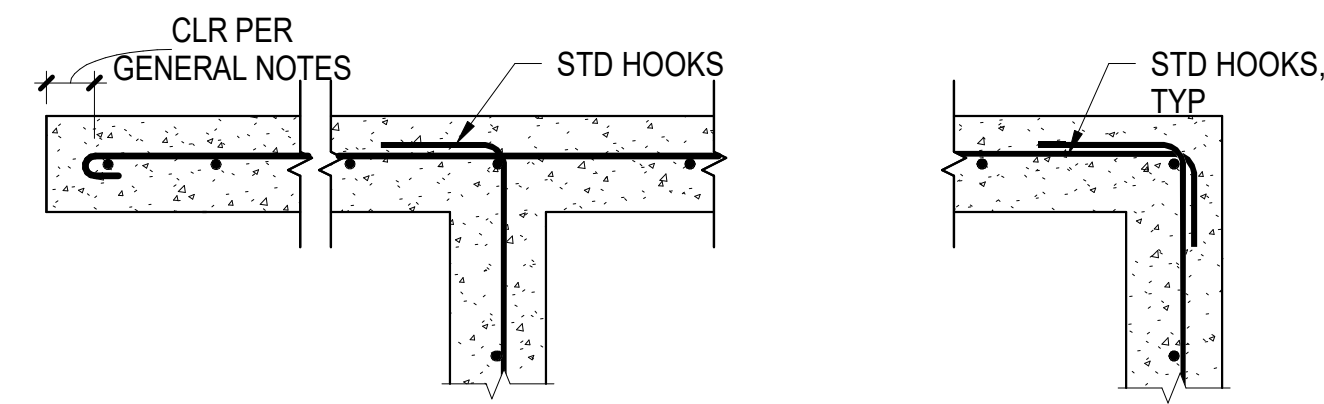
7 OPENING IN SLAB-ON-GRADE

NTS



b HOUSEKEEPING PAD AT SLAB-ON-GRADE

a CURB AT SLAB-ON-GRADE



c CONCRETE CURB INTERSECTIONS

8 CURBS AND HOUSEKEEPING PADS

NTS

		ABBREVIATIONS	LIST OF GOVERNING CODES
		<div><div><div><div><div>&</div><div>AND</div></div><div><div>°F</div><div>DEGREES FAHRENHEIT</div></div><div><div>AV</div><div>AUTOMATIC AIR VENT</div></div><div><div>AC</div><div>AIR CONDITIONER</div></div><div><div>AD</div><div>ACCESS DOOR</div></div><div><div>AFF</div><div>ABOVE FINISH FLOOR</div></div><div><div>AFUE</div><div>ANNUAL FUEL UTILIZATION EFFICIENCY</div></div><div><div>AL</div><div>ACOUSTICALLY LINED</div></div><div><div>AMP</div><div>AMPERE</div></div><div><div>AP</div><div>ACCESS PANEL</div></div><div><div>APPROX</div><div>APPROXIMATE</div></div><div><div>ARCH</div><div>ARCHITECT/ARCHITECTURAL</div></div><div><div>BDD</div><div>BACK DRAFT DAMPER</div></div><div><div>BFP</div><div>BACK FLOW PREVENTER</div></div><div><div>BHP</div><div>BRAKE HORSEPOWER</div></div><div><div>BLDG</div><div>BUILDING</div></div><div><div>BOD</div><div>BOTTOM OF DUCT</div></div><div><div>BOP</div><div>BOTTOM OF PIPE</div></div><div><div>BTU</div><div>BRITISH THERMAL UNIT</div></div><div><div>BTUH</div><div>BRITISH THERMAL UNITS PER HOUR</div></div><div><div>BTWN</div><div>BETWEEN</div></div><div><div>CA</div><div>COMBUSTION AIR</div></div><div><div>CFH</div><div>CUBIC FEET PER HOUR</div></div><div><div>CFM</div><div>CUBIC FEET PER MINUTE</div></div><div><div>CHWR</div><div>CHILLED WATER RETURN</div></div><div><div>CHWS</div><div>CHILLED WATER SUPPLY</div></div><div><div>CIRC</div><div>CIRCULATING</div></div><div><div>C</div><div>CENTERLINE</div></div><div><div>CLG</div><div>COOLING, CEILING</div></div><div><div>CLR</div><div>CLEAR</div></div><div><div>CONC</div><div>CONCRETE</div></div><div><div>CONN</div><div>CONNECTION</div></div><div><div>CONT</div><div>CONTINUED, CONTINUATION</div></div><div><div>COOL</div><div>COOLING</div></div><div><div>CP</div><div>COEFFICIENT OF PERFORMANCE</div></div><div><div>DB</div><div>DRY BULB</div></div><div><div>DF</div><div>DRINKING FOUNTAIN</div></div><div><div>D/L</div><div>DOOR LOUVER</div></div><div><div>DN</div><div>DOWN</div></div><div><div>DP</div><div>DIFFERENTIAL PRESSURE</div></div><div><div>DWGS</div><div>DRAWINGS</div></div><div><div>(E)</div><div>EXISTING</div></div><div><div>EA</div><div>EXHAUST AIR</div></div><div><div>EAD</div><div>EXHAUST AIR DAMPER</div></div><div><div>EAT</div><div>ENTERING AIR TEMPERATURE</div></div><div><div>EDB</div><div>ENTERING DRY BULB</div></div><div><div>EER</div><div>ENERGY EFFICIENCY RATIO</div></div><div><div>EFF</div><div>EFFICIENCY</div></div><div><div>ELEC</div><div>ELECTRICAL</div></div><div><div>ELEV</div><div>ELEVATION</div></div><div><div>ENT</div><div>ENTERING</div></div></div><div><div><div>EQ</div><div>EQUAL</div></div><div><div>EQUIP</div><div>EQUIPMENT</div></div><div><div>ESP</div><div>EXTERNAL STATIC PRESSURE</div></div><div><div>EW</div><div>ENTERING WATER</div></div><div><div>EWB</div><div>ENTERING WET BULB</div></div><div><div>EWT</div><div>ENTERING WATER TEMPERATURE</div></div><div><div>EXT</div><div>EXTERIOR</div></div><div><div>FD</div><div>FLOOR DRAIN</div></div><div><div>FEE</div><div>FINISHED FLOOR ELEVATION</div></div><div><div>FJA</div><div>FULL LOAD AMPS</div></div><div><div>FLEX</div><div>FLEXIBLE</div></div><div><div>FPM</div><div>FEET PER MINUTE</div></div><div><div>FS</div><div>FLOOR SINK</div></div><div><div>FT</div><div>FEET</div></div><div><div>FT HD</div><div>FEET HEAD</div></div><div><div>FTR</div><div>FLUE THRU ROOF</div></div><div><div>GA</div><div>GAUGE</div></div><div><div>GAL</div><div>GALLON</div></div><div><div>GPM</div><div>GALLONS PER MINUTE</div></div><div><div>HP</div><div>HORSEPOWER</div></div><div><div>HR</div><div>HOUR</div></div><div><div>HTG</div><div>HEATING</div></div><div><div>HZ</div><div>HERTZ</div></div><div><div>IE</div><div>INVERT ELEVATION</div></div><div><div>IN</div><div>INCH</div></div><div><div>INVT</div><div>INVERT</div></div><div><div>KW</div><div>KILOWATTS</div></div><div><div>KWH</div><div>KILOWATT HOUR</div></div><div><div>LAT</div><div>LEAVING AIR TEMPERATURE</div></div><div><div>LBS</div><div>POUNDS</div></div><div><div>LVR</div><div>LOUVER</div></div><div><div>LWT</div><div>LEAVING WATER TEMPERATURE</div></div><div><div>LWB</div><div>LEAVING WET BULB</div></div><div><div>MAD, MD</div><div>MANUAL AIR DAMPER</div></div><div><div>MAX</div><div>MAXIMUM</div></div><div><div>MBH</div><div>1000 BTU PER HOUR</div></div><div><div>MCA</div><div>MINIMUM CIRCUIT AMPS</div></div><div><div>MCP</div><div>MECHANICAL CONTROL PANEL</div></div><div><div>MECH</div><div>MECHANICAL</div></div><div><div>MFR</div><div>MANUFACTURER</div></div><div><div>MIN</div><div>MINIMUM</div></div><div><div>MOCP</div><div>MAXIMUM OVERCURRENT PROTECTION</div></div><div><div>(N)</div><div>NEW</div></div><div><div>NC</div><div>NORMALLY CLOSED</div></div><div><div>NIC</div><div>NOT IN CONTRACT</div></div><div><div>NO</div><div>NORMALLY OPEN</div></div><div><div>NTS</div><div>NOT TO SCALE</div></div><div><div>OA</div><div>OUTSIDE AIR</div></div><div><div>OAD</div><div>OUTSIDE AIR DAMPER</div></div><div><div>OC</div><div>ON CENTER</div></div></div><div><div><div>OD</div><div>OUTSIDE DIAMETER</div></div><div><div>PD</div><div>PRESSURE DROP</div></div><div><div>PH</div><div>PHASE</div></div><div><div>PLF</div><div>POUNDS PER LINEAR FOOT</div></div><div><div>POC</div><div>POINT OF CONNECTION</div></div><div><div>PRV</div><div>PRESSURE REDUCING VALVE</div></div><div><div>PSI (G) (A)</div><div>POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)</div></div><div><div>PT</div><div>PRESSURE/TEMPERATURE</div></div><div><div>QTY</div><div>QUANTITY</div></div><div><div>RA</div><div>RETURN AIR</div></div><div><div>RAD</div><div>RETURN AIR DAMPER</div></div><div><div>RH</div><div>RELATIVE HUMIDITY</div></div><div><div>RL</div><div>REFRIGERANT LIQUID</div></div><div><div>RM</div><div>ROOM</div></div><div><div>RPM</div><div>REVOLUTIONS PER MINUTE</div></div><div><div>RS</div><div>REFRIGERANT SUCTION</div></div><div><div>RV</div><div>RELIEF VALVE</div></div><div><div>SA</div><div>SUPPLY AIR</div></div><div><div>SC</div><div>SENSIBLE COOLING</div></div><div><div>SEER</div><div>SEASONAL ENERGY EFFICIENCY RATIO</div></div><div><div>SD</div><div>SMOKE DAMPER</div></div><div><div>SM</div><div>SHEET METAL</div></div><div><div>SOV</div><div>SHUT-OFF VALVE</div></div><div><div>SP</div><div>STATIC PRESSURE</div></div><div><div>SPEC</div><div>SPECIFICATION</div></div><div><div>SQ</div><div>SQUARE</div></div><div><div>SOFT, FT²</div><div>SQUARE FEET</div></div><div><div>SCIN, IN²</div><div>SQUARE INCHES</div></div><div><div>STRUCT</div><div>STRUCTURAL</div></div><div><div>T</div><div>THERMOSTAT, "X" INDICATES DEVICE</div></div><div><div>TC</div><div>TOTAL COOLING</div></div><div><div>TDH</div><div>TOTAL DYNAMIC HEAD</div></div><div><div>TEMP</div><div>TEMPERATURE</div></div><div><div>THRU</div><div>THROUGH</div></div><div><div>TSP</div><div>TOTAL STATIC PRESSURE</div></div><div><div>TV</div><div>TURNING VANES</div></div><div><div>TYP</div><div>TYPICAL</div></div><div><div>UL</div><div>UNDERWRITERS LABORATORIES</div></div><div><div>UCN</div><div>UNLESS OTHERWISE NOTED</div></div><div><div>V</div><div>VOLT</div></div><div><div>VFD</div><div>VARIABLE FREQUENCY DRIVE</div></div><div><div>VTR</div><div>VENT THROUGH ROOF</div></div><div><div>W</div><div>WAYS</div></div><div><div>W</div><div>WITH</div></div><div><div>WB</div><div>WET BULB</div></div><div><div>WC</div><div>WATER COLUMN</div></div><div><div>WH</div><div>WATER HEATER</div></div><div><div>WT</div><div>WEIGHT</div></div></div></div><div>2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. 2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R. 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R. 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R. 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R. TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R. 1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338. 2. INSPECTOR APPROVED BY DSA, INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342. 3. TESTS AND TESTING LABORATORY PER SECTION 4-335. 4. SPECIAL INSPECTION PER SECTION 4-333(c). 5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(c). 6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341. 7. GOVERNING CODES: TITLE 24. 8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION. 9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331. 10. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.</div></div>	
	DSA GENERAL NOTES	<div><div><div><div><div>SINGLE LINE SYMBOL</div><div>DOUBLE LINE SYMBOL</div><div>DESCRIPTION</div></div><div><div><div><div></div><div>LONG SWEEP 90° ELBOW - RECTANGULAR, ROUND OR OVAL</div></div><div><div></div><div>45° ELBOW - RECTANGULAR, ROUND OR OVAL</div></div><div><div></div><div>30° ELBOW - RECTANGULAR, ROUND OR OVAL</div></div><div><div></div><div>90° ELBOW - RECTANGULAR DUCT WITH TURNING VANES</div></div><div><div></div><div>45° LATERAL - ROUND TO ROUND OR OVAL TO OVAL</div></div><div><div></div><div>90° TAKEOFF WITH 45° TAPER - RECTANGULAR TO RECTANGULAR FOR BRANCH TAKEOFF LONGER THAN 50'-0" (USE 15)</div></div><div><div></div><div>90° TAKEOFF WITH 45° ELONGATED TEE - ROUND TO ROUND</div></div><div><div></div><div>Y BRANCH - ROUND OR OVAL DUCT</div></div><div><div></div><div>90° RADIUS SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT</div></div><div><div></div><div>90° RECTANGULAR SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT</div></div><div><div></div><div>TRANSITION - RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL</div></div><div><div></div><div>FLEXIBLE DUCT - ROUND</div></div><div><div></div><div>FLEXIBLE DUCT - RECTANGULAR</div></div></div><div><div><div><div></div><div>DOUBLE LINE SYMBOL</div><div>DESCRIPTION</div></div><div><div></div><div>SECTION AT SUPPLY AIR OR MAKE-UP AIR DUCT UP</div></div><div><div></div><div>SECTION AT RETURN AIR OR COMBUSTION AIR DUCT UP</div></div><div><div></div><div>SECTION AT EXHAUST AIR OR RELIEF AIR DUCT UP</div></div><div><div></div><div>SUPPLY AIR DUCT DOWN</div></div><div><div></div><div>RETURN AIR DUCT DOWN</div></div><div><div></div><div>EXHAUST AIR DUCT DOWN</div></div><div><div></div><div>ROUND DUCT UP - SUPPLY, RETURN OR EXHAUST</div></div><div><div></div><div>ROUND DUCT DOWN - SUPPLY, RETURN OR EXHAUST</div></div><div><div></div><div>CEILING DIFFUSER - ONE, TWO, THREE AND FOUR WAY THROW</div></div><div><div></div><div>CEILING - RETURN AND EXHAUST REGISTERS</div></div><div><div></div><div>SIDEWALL - SUPPLY DIFFUSER, RETURN AND EXHAUST REGISTERS</div></div><div><div></div><div>MANUAL BALANCE DAMPER WITH DUCT ACCESS DOOR</div></div><div><div></div><div>MOTORIZED BALANCE DAMPER WITH DUCT ACCESS DOOR</div></div><div><div></div><div>FIRE DAMPER WITH DUCT ACCESS DOOR</div></div><div><div></div><div>FIRE/SMOKE DAMPER WITH DUCT ACCESS DOOR</div></div><div><div></div><div>ACOUSTICALLY LINED DUCT, DIMENSIONS ARE INSIDE</div></div><div><div></div><div>REGISTER CFM SIZE AND TAG DESIGN CFM</div></div><div><div></div><div>PANEL AT T-BAR CEILING</div></div></div></div></div></div></div></div>	<div><div><div><div>GENERAL NOTES</div></div><div>1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE PLANS PRIOR TO SUBMITTING BID. SUBMITTAL OF THE CONTRACTORS BID DEMONSTRATES THE CONTRACTORS AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.</div><div>2. CONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS.</div><div>3. THE DRAWINGS INCLUDED IN THIS SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORD'S DESIGN INTENT FOR ALL EQUIPMENT AND RELATED PIPING ETC. INDIVIDUAL POWER NEEDS, CONTROLS AND OTHER CONNECTIONS SHALL BE COORDINATED AND COMPLETED/ PROVIDED FOR COMPLETE SYSTEM OPERATION BY CONTRACTOR.</div><div>4. EVERYTHING IS NEW UNLESS OTHERWISE NOTED.</div><div>5. EQUIPMENT LOCATIONS AND PIPE ROUTING ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ROUTE PIPING IN LOCATIONS WHICH MEET CODE REQUIREMENTS AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.</div><div>6. (E) DUCTWORK, PIPING AND ITEMS TO BE REMOVED ARE SHOWN HATCHED. SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.</div><div>7. REMOVE ALL ABANDONED PIPING, DUCTWORK, EQUIPMENT, WIRING, EQUIPMENT, AND FIXTURES INTERFERING WITH NEW WORK WHETHER NEW WORK IS ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL.</div><div>8. ABANDON IN PLACE BEHIND NEW FINISHES ALL PIPING, WIRING, AND DUCTWORK NOT INTERFERING WITH NEW WORK UNLESS REQUIRED FOR CONTINUED SERVICE.</div><div>9. ALL EQUIPMENT, EQUIPMENT CONNECTIONS, PIPING, MOUNTING LOCATIONS ETC. ARE TO BE VERIFIED WITH OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO BEGINNING OF THE ROUGH-IN.</div><div>10. ALL WORK SHALL BE PERFORMED TO STATE, LOCAL, NATIONAL AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.</div><div>11. ALL EQUIPMENT SHALL BE NEW AND CLEARLY LABELED AND IDENTIFIED. LABELS SHALL NOT BE COVERED BY OTHER CONSTRUCTION ELEMENTS.</div><div>12. UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND WORK FOR A PERIOD OF ONE YEAR.</div><div>13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE WALL OR STRUCTURE.</div><div>14. CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL INCLUDE THE PRICE OF INSTALLING ALL CONNECTIONS AS REQUIRED IN THEIR BIDS.</div><div>15. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ENGINEER OF RECORD. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.</div><div>16. THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW APPROVAL AND CONTRACTOR BIDDING PURPOSES.</div><div>17. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS.</div><div>18. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO BUILDING SERVICES(S) (ELECTRICAL/ HVAC/ PLUMBING ETC.) MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTIME SHALL NOT OCCUR DURING SCHOOL OPERATION HOURS.</div><div>19. IN INSTANCES WHERE A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND INSTALLATION MANUALS FOR THE PROJECT EXISTS, THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.</div><div>20. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.</div><div>21. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.</div><div>22. FOR ALL VOLUME DAMPERS LOCATED ABOVE CEILINGS, PROVIDE 12" LONG 1/2" WIDE FLUORESCENT ORANGE TAPE TO MARK DAMPER LOCATIONS.</div><div>23. ALL DUCTWORK, CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. WHERE WORK HAS TO BE INSTALLED IN EXPOSED LOCATIONS, IT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES OR PER ARCHITECT'S DIRECTION.</div><div>24. CONTRACTOR SHALL PREPARE AND SUBMIT THE CALIFORNIA ENERGY COMMISSION TITLE 24 CERTIFICATE OF ACCEPTANCE FORMS RELATED TO INSTALLED EQUIPMENT AND SYSTEMS.</div><div>25. SAFETY. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.</div><div>26. CONTRACTOR'S EQUIPMENT: COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. COORDINATE WITH OWNER FOR LOCATION AND PROCEDURES.</div><div>27. ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.</div><div>28. CONSTRUCTION SCHEDULING: CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.</div><div>29. TITLE 24 COMPLIANCE: THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2019 CBC), SHOULD ANY CONDITIONS BE DISCOVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK DOES NOT COMPLY WITH 2019 CBC. A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.</div></div></div>
	MEP COMPONENT ANCHORAGE NOTE		
	<div><div>ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON 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.</div><div>1. ALL PERMANENT EQUIPMENT AND COMPONENTS.</div><div>2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.</div><div>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.</div><div>THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCED 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.</div><div>A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.</div><div>B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.</div><div>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.</div></div>		
	PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	<div><div><div><div><div>SYMBOL</div><div>ABBREV.</div><div>IDENTIFICATION</div></div><div><div></div><div>CAP</div></div><div><div></div><div>CONT.</div></div><div><div></div><div>UNION</div></div><div><div></div><div>LINE BREAK</div></div><div><div></div><div>CKV</div></div><div><div></div><div>T&PRV</div></div><div><div></div><div>VALVE</div></div><div><div></div><div>CONCENTRIC & ECCENTRIC REDUCERS</div></div><div><div></div><div>AD, AP</div></div><div><div></div><div>MAV</div></div><div><div></div><div>T</div></div><div><div></div><div>CO2</div></div></div><div><div><div><div></div><div>P.O.C.</div><div>POINT OF CONNECTION</div></div><div><div></div><div>REMOVE EXISTING</div></div><div><div></div><div>TEE DOWN</div></div><div><div></div><div>90 DOWN</div></div><div><div><div><div></div><div>EQUIPMENT DESIGNATION</div></div><div><div></div><div>TAG NUMBER</div></div></div><div><div></div><div>SECTION 1 / SHEET M2.1</div></div></div></div></div></div></div>	<div><div><div><div>DRAWING INDEX</div></div><div>MP0.01 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL</div><div>MP0.02 SCHEDULES - MECHANICAL</div><div>MP2.01 FLOOR PLAN - DEMO - BLDGS A, B, & C - MECHANICAL & PLUMBING</div><div>MP2.02 FLOOR PLAN - DEMO - BLDG D - MECHANICAL & PLUMBING</div><div>MP2.03 FLOOR PLAN - NEW - BLDGS A, B, & C - MECHANICAL & PLUMBING</div><div>MP2.04 FLOOR PLAN - NEW - BLDGS D & E - MECHANICAL & PLUMBING</div><div>MP5.01 CONTROLS - MECHANICAL</div><div>MP6.01 DETAILS - MECHANICAL & PLUMBING</div><div>MP8.01 TITLE 24 DOCUMENTS - MECHANICAL</div><div>MP8.02 TITLE 24 DOCUMENTS - MECHANICAL</div></div></div>

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STATE OF CALIFORNIA
EXP. JUNE 30, 2023

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REVISIONS
No. Description Date

MILESTONES
DO
90% CD
DSA SUB 05/24/2021
BACKCHECK 10/22/2021

SHEET
SYMBOL
LEGENDS,
ABBREVIATIONS,
NOTES -
MECHANICAL

DATE 10/22/2021
JOB # 2021005.05
SHEET #
MP0.01

AIR DISTRIBUTION SCHEDULE						
TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	BORDER TYPE	MOUNTING DETAIL	NOTES
HSS-1	TITUS	S300FL	HIGH SIDEWALL SUPPLY	TYPE 1	12MP6.01	1, 2, 4
LSR-1	TITUS	350RL	LOW SIDEWALL RETURN	TYPE 1	13MP6.01	2, 3
RG-1	TITUS	30RL	RELIEF GRILLE	TYPE 1	10MP6.01	2, 5

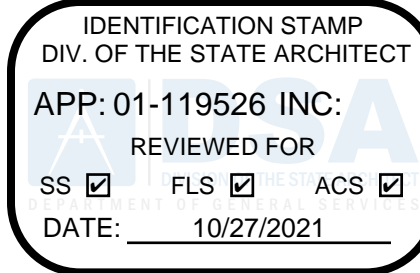
1. SET BLADES AT 22.5° DEFLECTION.
2. PRIME AND PAINT PER ARCHITECT'S INSTRUCTIONS. REGISTER COLOR SELECTED BY ARCHITECT.
3. PROVIDE WITH AIRSAN COMPACT DUCT SILENCER.
4. PROVIDE WITH ASD AIR SCOOP DEVICE.
5. CONTRACTOR TO FIELD VERIFY (E) DIMENSIONS PRIOR TO ORDERING.

CLASSROOM SPLIT SYSTEM HEAT PUMPS SCHEDULE																	
TAG	MANUFACTURER	MODEL	LOCATION	COOLING	HEATING	AIRFLOW CFM	OUTSIDE AIR CFM	REFRIGERANT PIPING		SEER	HSPF	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
				TOTAL MBH	TOTAL MBH			LIQUID	GAS			V / PH	MCA	MOCP			
FC-1	SAMSUNG	AC054KNZDCHIAA	BLDG A CLASSROOM 1	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-1	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-2	SAMSUNG	AC054KNZDCHIAA	BLDG A CLASSROOM 2	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-2	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-3	SAMSUNG	AC054KNZDCHIAA	BLDG A CLASSROOM 3	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-3	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-4	SAMSUNG	AC054KNZDCHIAA	BLDG A CLASSROOM 4	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-4	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-5	SAMSUNG	AC024KNZDCHIAA	BLDG A CLASSROOM 5	24	27	760	150	1/4"	5/8"	-	-	NOTE 8			100	1MP6.01	2, 3, 4, 6, 7, 8
HP-5	SAMSUNG	AC024JXADCHIAA	ROOF			-	-	1/4"	5/8"	19.5	11.5	208 / 1	13.6	20	145	3MP6.01	1
FC-6	SAMSUNG	AC054KNZDCHIAA	BLDG A CLASSROOM 6	54	60	1600	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-6	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-7	SAMSUNG	AC054KNZDCHIAA	BLDG A CLASSROOM 7	54	60	1600	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-7	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-8	SAMSUNG	AC024KNZDCHIAA	BLDG A CLASSROOM 8	24	27	760	150	1/4"	5/8"	-	-	NOTE 8			100	1MP6.01	2, 3, 4, 6, 7, 8
HP-8	SAMSUNG	AC024JXADCHIAA	ROOF			-	-	1/4"	5/8"	19.5	11.5	208 / 1	13.58	20	145	3MP6.01	1
FC-8a	SAMSUNG	AC024KNZDCHIAA	BLDG B ROOM 8a	24	27	760	150	1/4"	5/8"	-	-	NOTE 8			100	1MP6.01	2, 3, 4, 5, 6, 7, 8
HP-8a	SAMSUNG	AC024JXADCHIAA	ROOF			-	-	1/4"	5/8"	19.5	11.5	208 / 1	13.58	20	145	3MP6.01	1
FC-10	SAMSUNG	AC054KNZDCHIAA	BLDG B CLASSROOM 10	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-10	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-11	SAMSUNG	AC054KNZDCHIAA	BLDG B CLASSROOM 11	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-11	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-12	SAMSUNG	AC054KNZDCHIAA	BLDG B CLASSROOM 12	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-12	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-13	SAMSUNG	AC054KNZDCHIAA	BLDG C CLASSROOM 13	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-13	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-14	SAMSUNG	AC054KNZDCHIAA	BLDG C CLASSROOM 14	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-14	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-15	SAMSUNG	AC054KNZDCHIAA	BLDG C CLASSROOM 15	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-15	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-16	SAMSUNG	AC054KNZDCHIAA	BLDG C CLASSROOM 16	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 6, 7, 8
HP-16	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-17	SAMSUNG	AC054KNZDCHIAA	BLDG D CLASSROOM 17	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 5, 6, 7, 8
HP-17	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-18	SAMSUNG	AC054KNZDCHIAA	BLDG D CLASSROOM 18	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 5, 6, 7, 8
HP-18	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-19	SAMSUNG	AC054KNZDCHIAA	BLDG D CLASSROOM 19	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 5, 6, 7, 8
HP-19	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1
FC-20	SAMSUNG	AC054KNZDCHIAA	BLDG D CLASSROOM 20	54	60	1150	450	3/8"	3/4"	-	-	NOTE 8			164	1MP6.01	2, 3, 4, 5, 6, 7, 8
HP-20	SAMSUNG	AC054KXADCHIAA	ROOF			-	-	3/8"	3/4"	17.1	9.0	208 / 1	42	70	212	3MP6.01	1

1. SPLIT SYSTEM SHALL BE ABLE TO OPERATE AT 94% HEATING CAPACITY DOWN TO 32°F OUTDOOR AMBIENT TEMPERATURE.
2. CFM BASED ON 0.55 ESP.
3. PROVIDE WITH SAMSUNG MM-A60UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER.
4. PROVIDE WITH DELTA CONTROLS THERMOSTAT WITH CO2 SENSOR. SEE MP6.01 FOR CONTROLS.
5. PROVIDE WITH CONDENSATE PUMP.
6. PROVIDE WITH 4" MERV-13 FILTERS WITH FILTER ACCESS PANEL.
7. FAN COIL SHALL BE ADJUSTED TO OPERATE AT CONSTANT SPEED AT INDICATED CFM.
8. INDOOR UNIT POWERED BY OUTDOOR UNIT.

SPLIT SYSTEMS SCHEDULE																	
TAG	MANUFACTURER	MODEL	WING / BUILDING	LOCATION	COOLING	HEATING	AIRFLOW CFM	REFRIGERANT PIPING			SEER	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
					TOTAL MBH	TOTAL MBH		LIQUID	GAS	V / PH		MCA	MOCp				
SSO-14	SAMSUNG	AR24TSFYBWKXCV	BLDG C	ROOF	22	NOTE 6	—	1/4"	5/8"	18	208 / 1	20	30	125	2MP6.01		
SSI-14	SAMSUNG	AR24TSFYBWKXCV		MECH ROOM 14			657	1/4"	5/8"	—	NOTE 1			30	3MP6.01	2, 3, 4, 5	
SSO-29	SAMSUNG	AR24TSFYBWKXCV	BLDG E	ROOF	22	24	—	1/4"	5/8"	18	208 / 1	20	30	125	2MP6.01		
SSI-29	SAMSUNG	AR24TSFYBWKXCV		OFFICE 29B			657	1/4"	5/8"	NOTE 1			30	3MP6.01	2, 3, 4, 5		

1. INDOOR UNITS ARE POWERED BY OUTDOOR UNIT.
2. PROVIDE WITH WALL MOUNTING BRACKET.
3. PROVIDE WITH SAMSUNG WALL MOUNTED THERMOSTAT.
4. PROVIDE WITH BACNET INTERFACE CARD. SEE MP5.01 FOR CONTROLS.
5. PROVIDE WITH CONDENSATE PUMP.
6. LOCK OUT HEATING.



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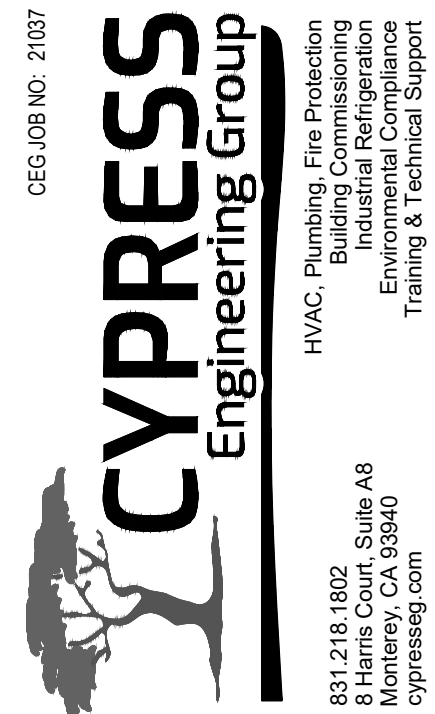
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SCHOOL - HVAC
REPLACEMENT**

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT



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STATE

DSA FILE NUMBER

41-26

APPL #

01-119526

REVISIONS

No. Description Date

MILESTONES

DD

90% CD

DSA SUB

05/24/2021

BACKCHECK

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**SCHEDULES-
MECHANICAL**

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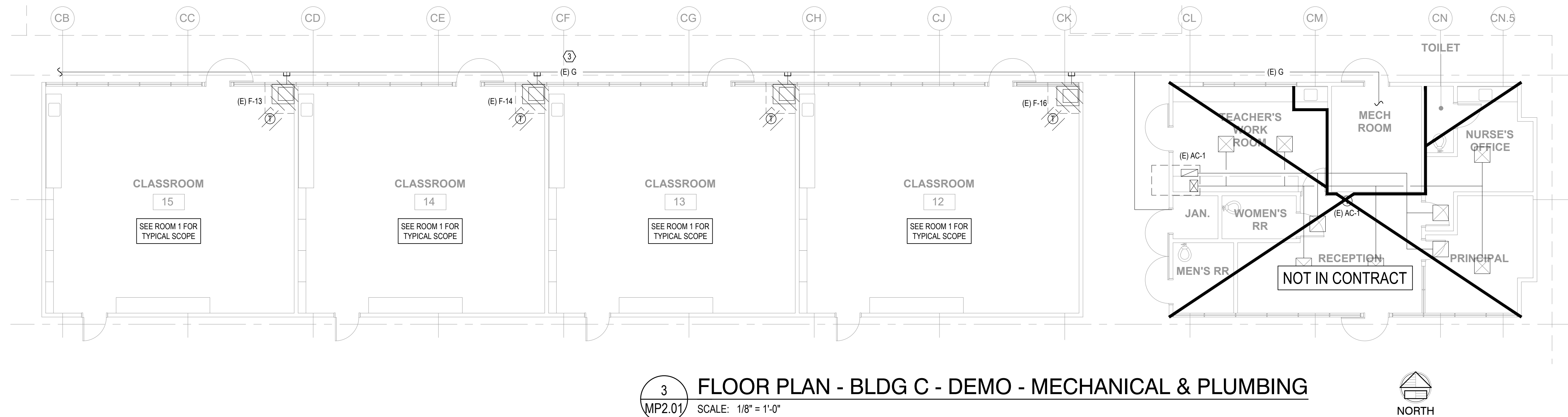
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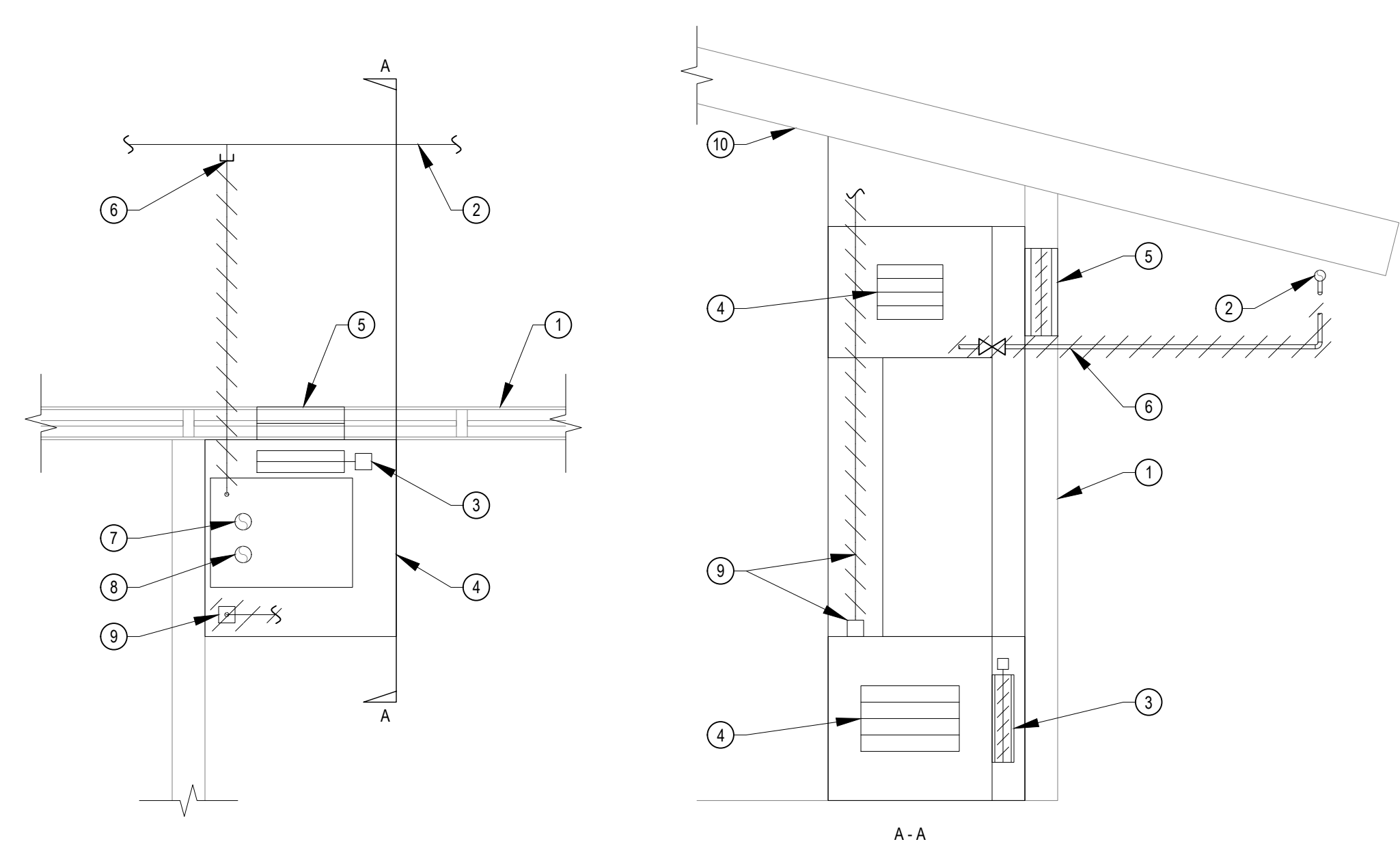
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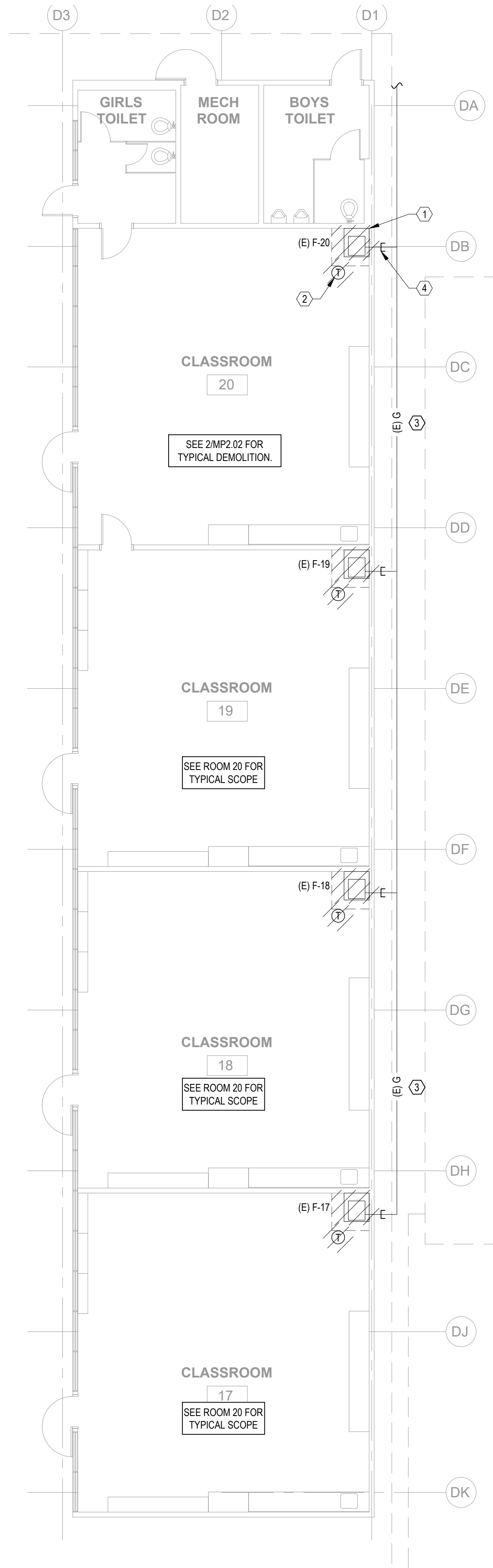


- BLDG KEY**
-
- The diagram shows a building layout with the following rooms:
- A**: A long horizontal rectangle at the top.
 - B**: A horizontal rectangle below A, split into two equal parts.
 - C**: A horizontal rectangle below B, split into two equal parts.
 - D**: A vertical rectangle on the left.
 - E**: A vertical rectangle to the right of D.
 - F**: A small square above E.
- A north arrow is located in the bottom right corner, pointing upwards.



2 TYPICAL FURNACE DEMO - MECHANICAL & PLUMBING
MP2.02 SCALE: N.T.S.

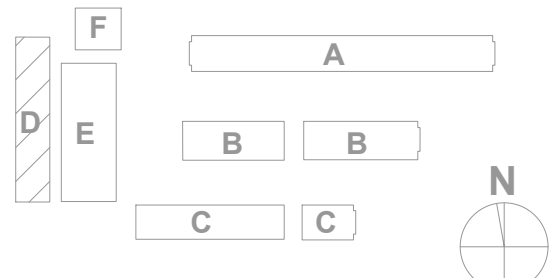
- DETAIL NOTES:
- (E) EXTERIOR WALL.
 - (E) GAS MAIN TO REMAIN.
 - REMOVE (E) OUTSIDE AIR DAMPER AND ACTUATOR. SALVAGE (E) ACTUATOR.
 - REMOVE (E) FURNACE ENCLOSURE, REGISTERS, AND ACCESS PANELS. COMPLETE.
 - REMOVE (E) OUTSIDE AIR LOUVER UNLESS NOTED OTHERWISE ON PLANS. HEIGHT VARIES.
 - REMOVE (E) GAS BRANCH LINE AND SHUT OFF VALVE. CAP AT (E) GAS MAIN. SEE DETAIL 0MP5.01.
 - REMOVE (E) COMBUSTION AIR INTAKE PATCH AND REPAIR ROOF AND CEILING PER ARCHITECT'S DRAWINGS.
 - REMOVE (E) FLUE: PATCH AND REPAIR ROOF AND CEILING PER ARCHITECT'S DRAWINGS.
 - REMOVE (E) CONDENSATE PUMP. REMOVE (E) CONDENSATE DRAIN PIPING WITHIN ENCLOSURE.
 - (E) CEILING.



1 FLOOR PLAN - BLDG D - DEMO - MECHANICAL & PLUMBING
MP2.02 SCALE: 1/8" = 1'-0"



BLDG KEY



GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.

DEMOLITION SHEET NOTES

- REMOVE (E) FURNACE ENCLOSURE AND FURNACE, COMPLETE, TYP. SEE 2MP2.02 FOR TYPICAL FURNACE DEMO.
- REMOVE (E) THERMOSTAT AND WIRING BACK TO (E) FURNACE. TYP. SALVAGE (E) THERMOSTAT AND RETURN TO DISTRICT.
- (E) GAS MAIN TO REMAIN, TYP.
- REMOVE (E) GAS BRANCH LINE FROM (E) FURNACE BACK TO MAIN. CAP (E) BRANCH LINE AT MAIN. TYP. SEE 0MP6.01.

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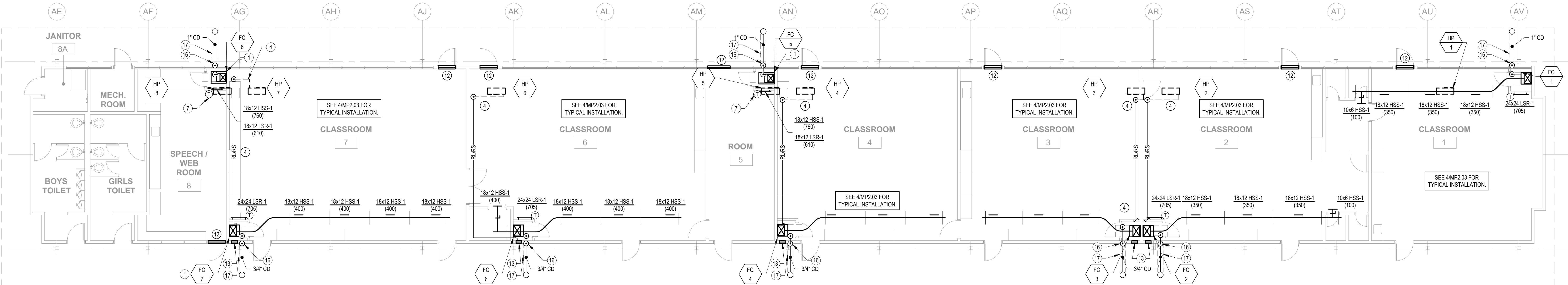
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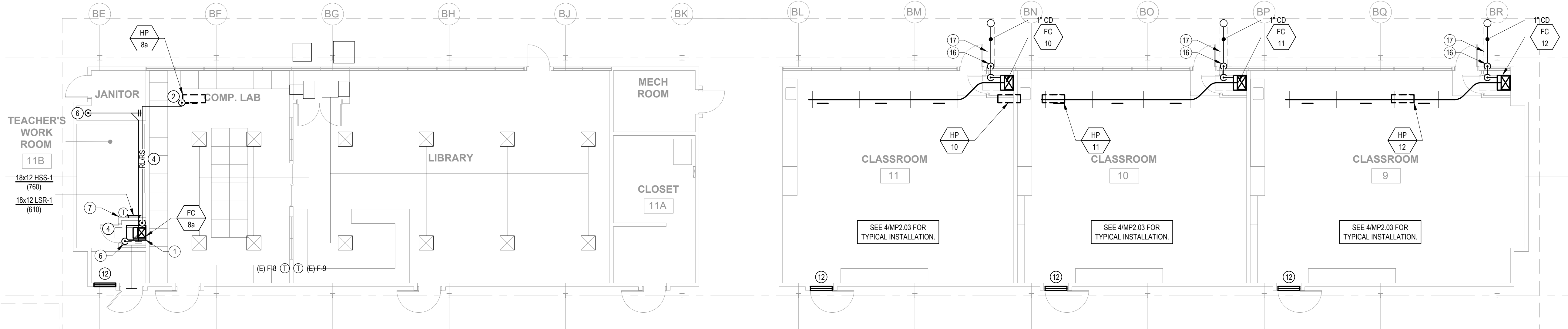
SHEET
FLOOR PLAN -
DEMO -
BLDG D -
MECHANICAL &
PLUMBING

DATE 10/22/2021
JOB # 2021005.05
SHEET # MP2.02



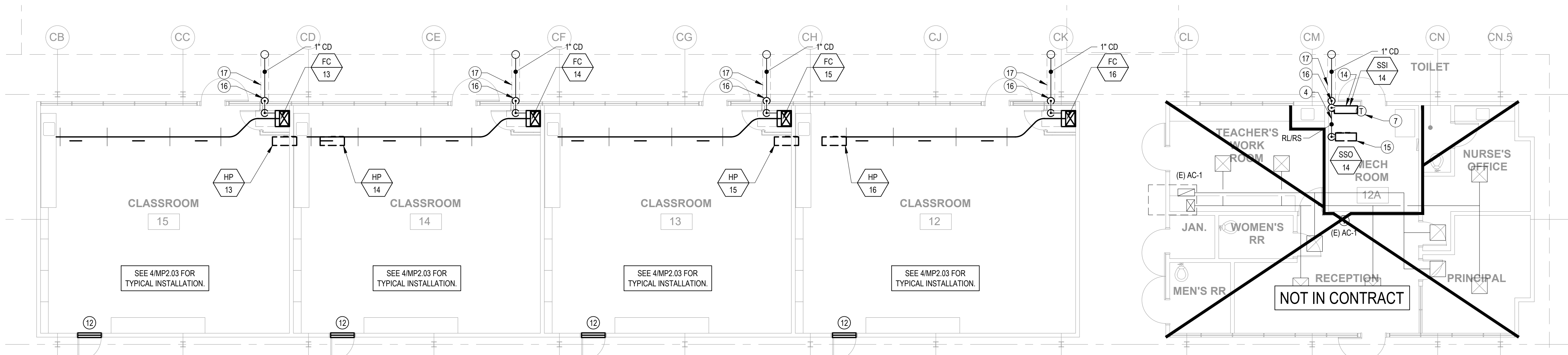
1 FLOOR PLAN - BLDG A - NEW - MECHANICAL & PLUMBING

MP2.03 SCALE: 1/8" = 1'-0"



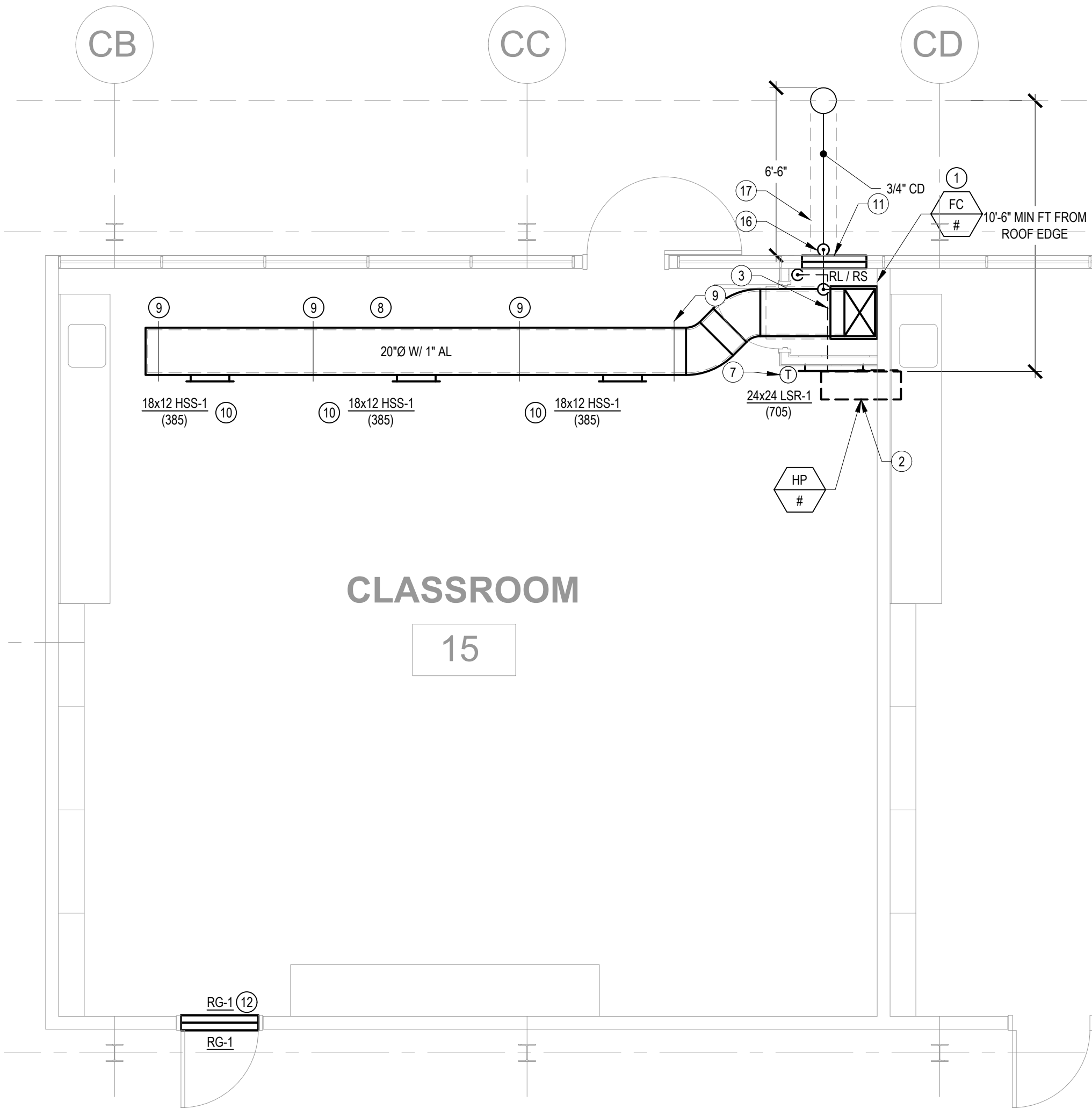
2 FLOOR PLAN - BLDG B - NEW - MECHANICAL & PLUMBING

MP2.03 SCALE: 1/8" = 1'-0"



3 FLOOR PLAN - BLDG C - NEW - MECHANICAL & PLUMBING

MP2.03 SCALE: 1/8" = 1'-0"



4 ENLARGED FLOOR PLAN - TYPICAL CLASSROOM

MP2.03 SCALE: 1/4" = 1'-0"

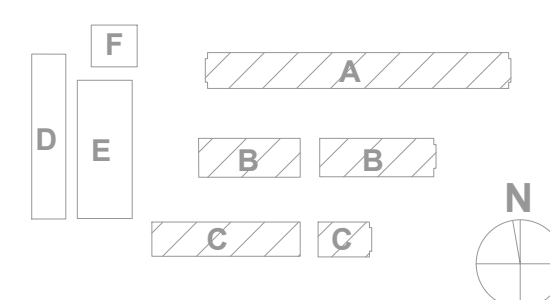
NEW SHEET NOTES

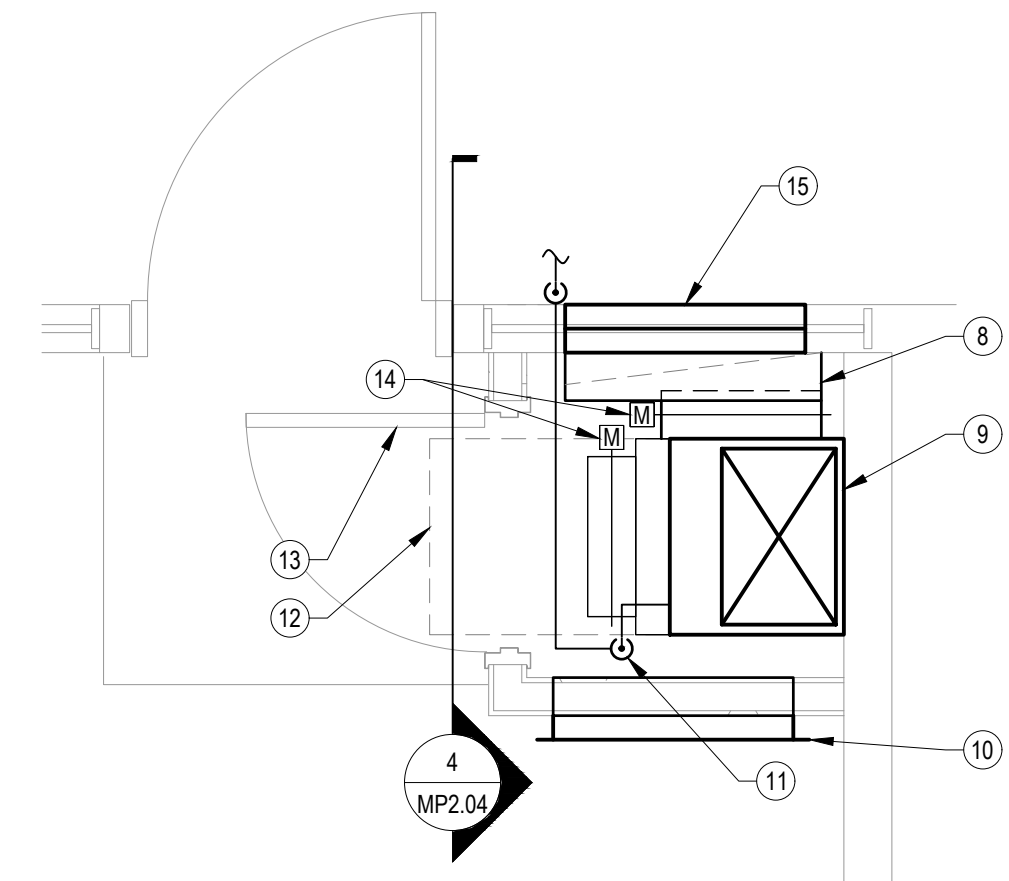
- INSTALL FAN COIL SEE 3MP2.04 AND 4MP2.04 FOR TYPICAL FAN COIL INSTALLATION. SEE 1MP6.01 FOR TYPICAL FAN COIL MOUNTING.
- INSTALL HEAT PUMP ON ROOF. MIN 10 FT AWAY FROM EDGE OF ROOF. TYP. KEEP CLEAR OF (E) GAS PIPE ON ROOF.
- INSTALL REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL. TYP. RUN PIPES ON ROOF AND PENETRATE ABOVE FAN COIL ENCLOSURE.
- INSTALL REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL ON ROOF. PENETRATE ROOF AND RUN PIPING AT WALL. TO FAN COIL ENCLOSURE. SUPPORT PIPES SIMILAR TO DETAIL 11MP6.01. COVER EXPOSED PIPING WITH WIREMOLD. COVER PIPING WITH ALUMINUM JACKET AND PAINT AT EXPOSED STRUCTURE CEILING WHERE WIRE MOLD CANNOT BE INSTALLED.
- NOT USED.
- PUMP CD UP TO CEILING. SPILL CONDENSATE TO (E) MOP SINK WITH 1" AIR GAP. SEE DETAIL 9MP6.01 FOR CD CONNECTION TO UNIT.
- INSTALL THERMOSTAT ON WALL, 48" AFF MAX, AND WIRE TO FAN COIL. TYP. SEE MP5.01.
- EXPOSED SUPPLY DUCT INSIDE CLASSROOM.
- DUCT SUPPORT. SEE DETAIL 5MP6.01.
- FACE OPERABLE KEY EXTRACTOR. TYP. FOR ALL SUPPLY REGISTERS.
- INSTALL 48"x24" RUSKIN L375 OUTSIDE AIR LOUVER WITH BIRDSCREEN UNLESS OTHERWISE NOTED ON FLOOR PLAN.
- MOTORIZED RELIEF DAMPER AND RETURN GRILLE (RG-1) MOUNTED TO BOTH SIDES OF RELIEF OPENING. DAMPER AND GRILLE SIZE TO MATCH (E) FRAME APPROXIMATELY 36"x24". RETURN GRILLE AND MOTORIZED DAMPER TO FILL ENTIRE (E) WINDOW PANEL. VERIFY EXACT DIMENSION IN FIELD.
- INSTALL 12"x42" RUSKIN L375 OUTSIDE AIR LOUVER WITH BIRDSCREEN.
- INSTALL FAN COIL ABOVE HEIGHT OF DOOR. COORDINATE EXACT HEIGHT WITH DISTRICT.
- INSTALL HEAT PUMP ON ROOF. MIN 10 FT AWAY FROM EDGE OF ROOF. INSTALL REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL.
- CD FROM FAN COIL. DROP CD TIGHT TO EXTERIOR WALL TO BELOW GRADE. ROUTE TO CD DRYWELL. SEE 9MP6.01 FOR CONNECTION TO UNIT AND 14MP6.01 FOR CD DRYWELL.
- SAWCUT, REPAIR, AND PATCH TO MATCH EXISTING. SEE SHEET A8.10 ON ARCHITECTS DRAWINGS FOR PATCHING AT GRADE.

GENERAL NOTES

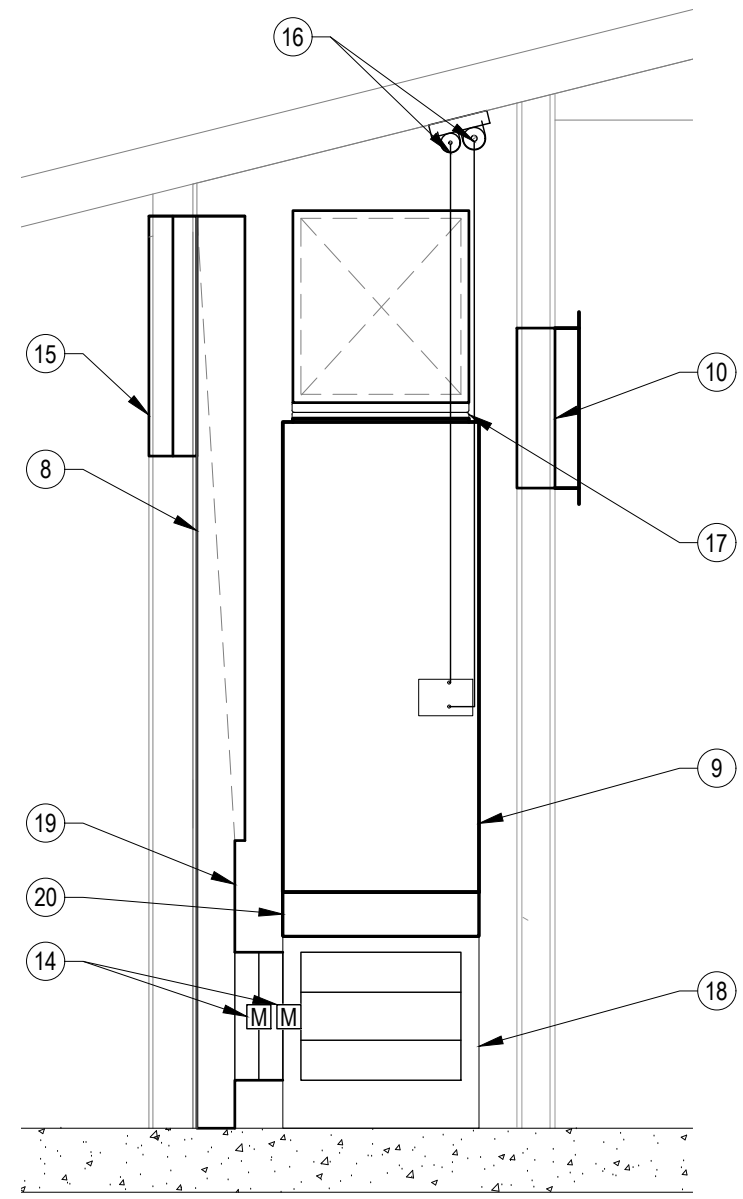
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
- FOR CLARITY, ABANDONED CD PIPING AND (E) GAS MAINS ARE NOT SHOWN ON THIS PLAN. SEE MP2.01.
- PAINT ALL EXPOSED DUCTWORK, SUPPORTS, AND REGISTERS.
- PAINT CONDENSATE PIPING AT EXTERIOR OF BUILDING.
- SEE DETAIL 7MP6.01 FOR PIPE SUPPORT ON ROOF.
- INSTALL REFRIGERANT AND CONDENSATE PIPING PER 1/8" SCALE FLOOR PLANS WHERE SHOWN. OTHERWISE, INSTALL PER TYPICAL ENLARGED VIEW SHOWN IN 4MP2.03.
- CONTRACTOR TO PROVIDE AND INSTALL THERMOSTAT WIRING AND ASSOCIATED CONDUITS FOR ALL NEW HVAC EQUIPMENT AND CONNECTIONS.
- EQUIPMENT MOUNTING DETAIL REFERENCE SHOWN ON SCHEDULES ON SHEET MP0.2

BLDG KEY

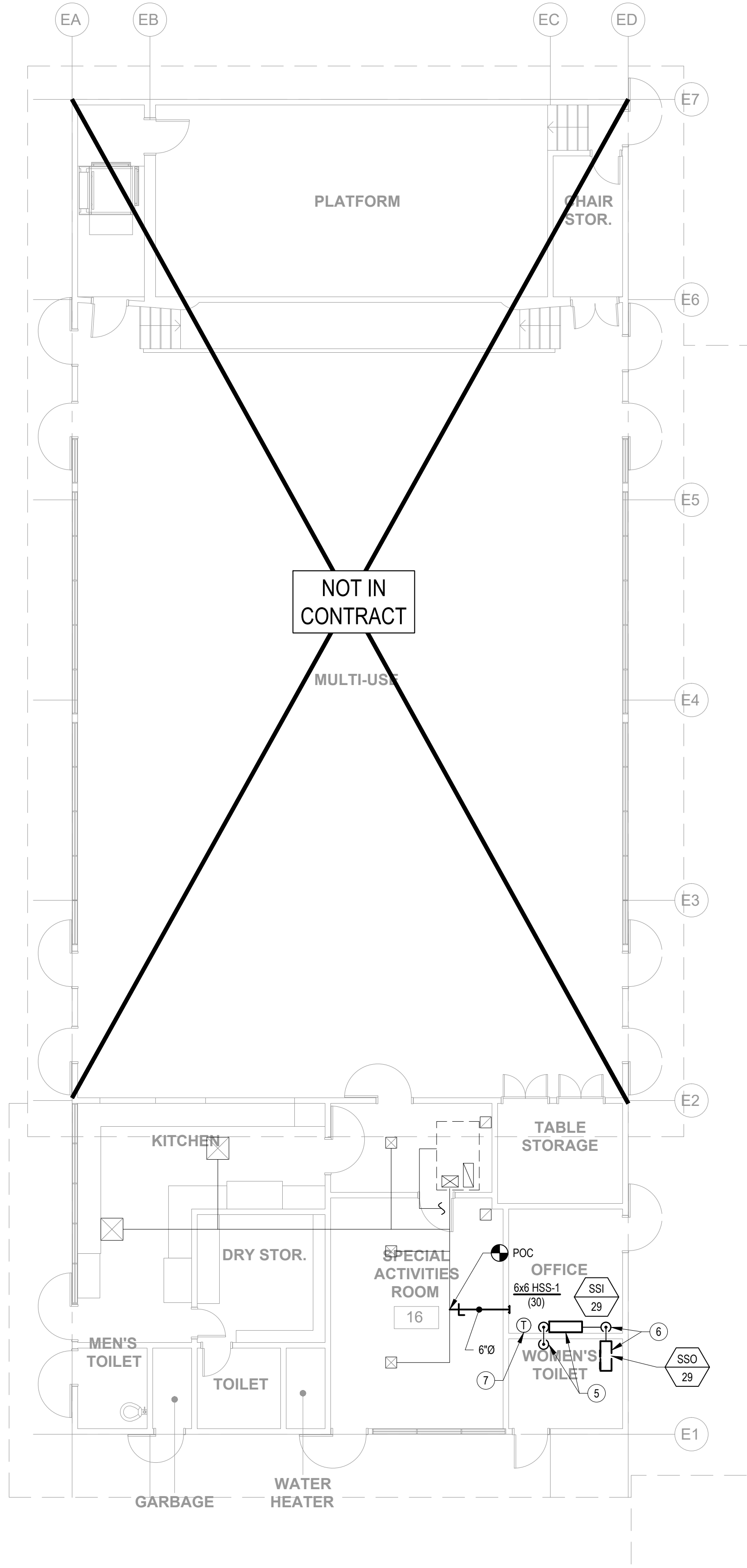




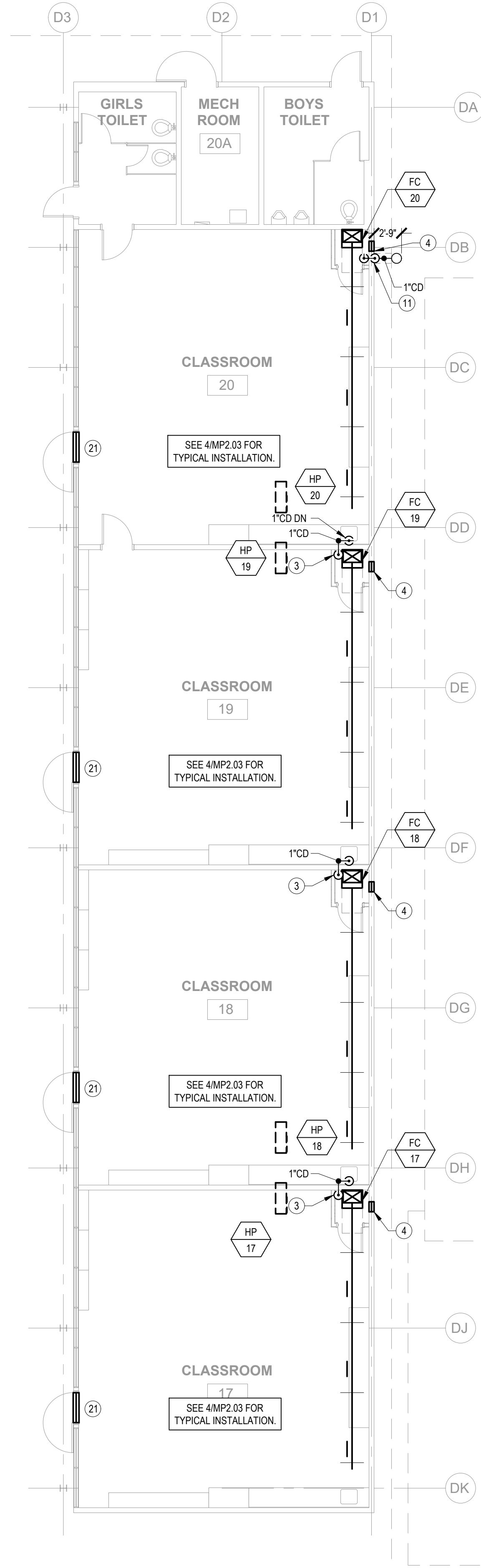
3 FLOOR PLAN - ENCLOSURE
MP2.04 SCALE: NONE



4 SECTION - ENCLOSURE
MP2.04 SCALE: NONE



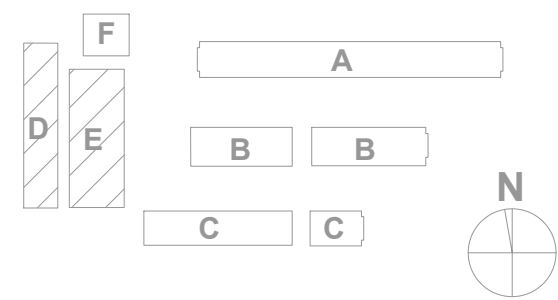
2 FLOOR PLAN - BLDG E - NEW - MECHANICAL & PLUMBING
MP2.04 SCALE: 1/8" = 1'-0"



1 FLOOR PLAN - BLDG D - NEW - MECHANICAL & PLUMBING
MP2.04 SCALE: 1/8" = 1'-0"



BLDG KEY



GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
- FOR CLARITY, ABANDONED CD PIPING AND (E) GAS MAINS ARE NOT SHOWN ON THIS PLAN. SEE MP2.01.
- PAINT ALL EXPOSED DUCTWORK, SUPPORTS, AND REGISTERS.
- PAINT CONDENSATE PIPING AT EXTERIOR OF BUILDING.
- SEE DETAIL 7MP6.01 FOR PIPE SUPPORT ON ROOF.
- CONTRACTOR TO PROVIDE AND INSTALL THERMOSTAT WIRING AND ASSOCIATED CONDUITS FOR ALL NEW HVAC EQUIPMENT AND CONNECTIONS.
- EQUIPMENT MOUNTING DETAIL REFERENCE SHOWN ON SCHEDULES ON SHEET MP0.2.

NEW SHEET NOTES

- INSTALL FAN COIL, TYP. SEE 3MP2.04 AND 4MP2.04 FOR TYPICAL FAN COIL INSTALLATION. SEE 1MP6.01 FOR TYPICAL FAN COIL MOUNTING.
- NOT USED
- CONDENSATE DRAIN PIPE TO PENETRATE WALL UNDER SINK IN ADJACENT CLASSROOM. CONNECT CD PIPE TO SINK TAILPIECE.
- INSTALL 12"x42" RUSKIN L375 OUTSIDE AIR LOUVER WITH BIRD SCREEN, TYP.
- INSTALL FAN COIL. COORDINATE EXACT HEIGHT WITH DISTRICT. INSTALL CONDENSATE DRAIN PIPING FROM FAN COIL. PENETRATE WALL AND CONNECT TO SINK TAILPIECE IN WOMEN'S RESTROOM.
- INSTALL HEAT PUMP ON ROOF, MIN 10'-6" AWAY FROM EDGE OF ROOF. INSTALL REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL.
- INSTALL THERMOSTAT ON WALL, 48" AFF MAX, AND WIRE TO FAN COIL, TYP. SEE MP5.01.
- 6"x32" OUTSIDE AIR DUCT DOWN TO MIXING PLENUM.
- FAN COIL. SEE PLANS FOR LOCATION.
- 24"x24" RETURN REGISTER HSR-1 WITH GRILLE SILENCER.
- CD FROM FAN COIL. DROP PIPE DOWN TO ENCLOSURE FLOOR AT LEFT SIDE OF UNIT, ENSURING PIPE DOES NOT BLOCK FILTER ACCESS. THEN RUN ALONG FLOOR TO EXTERIOR WALL TO DRYWELL. PROVIDE CLEANOUT FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135°. SEE 9MP6.01 FOR CONNECTION TO UNIT AND 14MP6.01 FOR CD DRYWELL.
- CLEARANCE REQUIRED FOR FILTER REPLACEMENT.
- 30" FULL HEIGHT DOOR. SEE ARCHITECTS DRAWINGS.
- 20"x16" MOTORIZED DAMPER (LOW VOLTAGE).
- INSTALL OUTSIDE AIR LOUVER. SIZE TO MATCH FULL WIDTH AND HEIGHT OF (E) WINDOW PANEL (46"x26" NOMINAL). FIELD VERIFY EXACT FRAME SIZE BEFORE ORDERING LOUVER.
- REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL. SEE 11MP6.01 FOR PIPE SUPPORT.
- FLEX DUCT AT CONNECTION TO UNIT.
- MIXING PLENUM BELOW FAN COIL.
- DUCT TRANSITION TO ALLOW DAMPER CONNECTION.
- FILTER BOX THAT CAN FIT 4" OR 2" FILTER.
- MOTORIZED RELIEF DAMPER AND RETURN GRILL (RG-11) MOUNTED ON BOTH SIDES OF RELIEF OPENING. DAMPER AND GRILLE SIZE TO MATCH (E) FRAME. APPROXIMATELY 46"x36" RETURN GRILLE TO FILL ENTIRE (E) WINDOW PANEL. VERIFY EXACT DIMENSIONS IN FIELD.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119526 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 10/27/2021

aedis
architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95118
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

CONSULTANT

DEC 08 NO. 2107
CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection, Building Envelope, Mechanical, Electrical, Environmental Compliance, Training & Technical Support
511 E. 1st St., Suite A3
San Mateo, CA 94401
cypresseng.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
METRIC CERTIFICATION
EXP. JUNE 30, 2023
MECHANICAL
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 41-26
APPL # 01-119526

REVISIONS

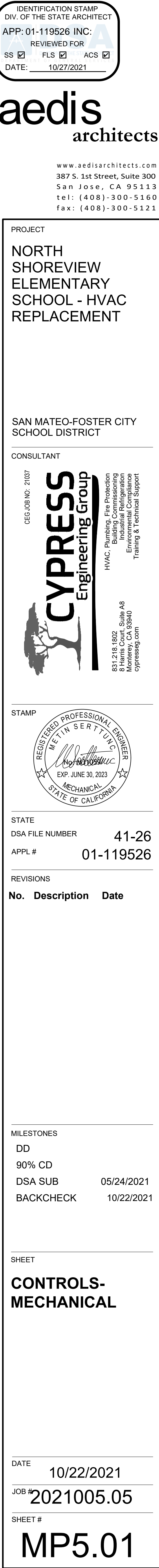
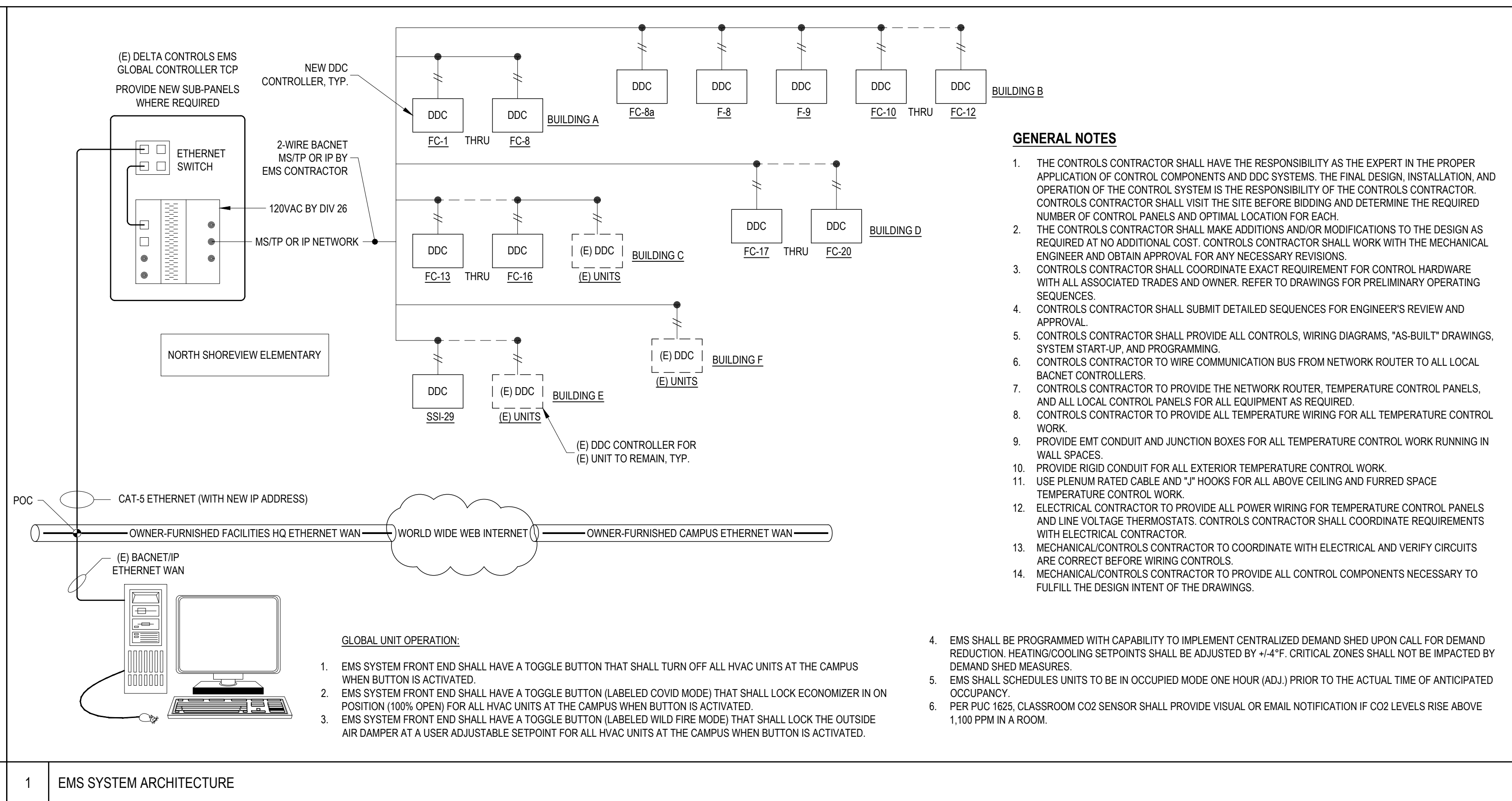
No.	Description	Date
DD		
90% CD		
DSA SUB		05/24/2021
BACKCHECK		10/22/2021

MILESTONES

SHHEET

FLOOR PLAN - NEW - BLDGS D & E - MECHANICAL & PLUMBING

DATE 10/22/2021
JOB # 2021005.05
SHEET # MP2.04



STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E (Created 09/2020)

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Project Name: North Shoreview Montessori School - HVAC Replacement

Report Page: 7 of 12

Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

Table Continued

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

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

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Project Name: North Shoreview Montessori School - HVAC Replacement

Report Page: 8 of 12

Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

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/NRCI/.

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)(3) 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

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Project Name: North Shoreview Montessori School - HVAC Replacement

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Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

		NRCA-MCH-12-A FDD for Packaged Direct Expansion Units			
		NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance			
		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".			
		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".			
		NRCA-MCH-16-A Supply Air Temperature Reset Controls			
		NRCA-MCH-17-A Condenser Water Temperature Reset Controls			
		NRCA-MCH-18 Energy Management Control Systems			
		NRCA-MCH-19 Occupancy Sensor Controls			
		NRCA-MCH-20 Multi-Family Ventilation			
		NRCA-MCH-21 Multi-Family Envelope Leakage			

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

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Project Name: North Shoreview Montessori School - HVAC Replacement

Report Page: 4 of 12

Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)1, §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(a)	Isolation Zone Controls §120.2(a)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP/FC	single zone	≤ 25,000 ft²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: Alteration project
WHP	single zone	≤ 25,000 ft²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: Alteration project
AC	single zone	≤ 25,000 ft²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: Alteration project
F/CU	single zone	≤ 25,000 ft²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: Alteration project

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
² NOTES: Controls with a "E" require a note in the space below explaining how compliance is achieved.
EX: System 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(f)

J. 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.

Nonresidential and Hotel/ Motel Ventilation Systems

04	05	06	07
----	----	----	----

Table Continued

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

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NRCC-MCH-E (Created 09/2020)

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Project Name: North Shoreview Montessori School - HVAC Replacement

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Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

Table Continued

System Name:	HP/FC	System Design OA CFM Air Flow:	450	System Design Transfer Air CFM:	0	Air Filtration per §120.1(c) and §141.0(b)2 ¹		
						Provided per §120.1(c) (NR & Hotel/Motel)		
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of showerheads / toilets	# of people ⁵	Required Min OA CFM	Required Minimum CFM	Provided per Design CFM	DCV or Occupant Sensor Controls per §120.1(d)(3), §120.1(d)(5) & §120.2(e)3 ⁶
HP/FC	Classroom (age 5-18)	1,000			150		0	DCV Occ Sensor NA: Not required space type

17	Total System Required Min OA CFM	150	18	Ventilation for this System Complies?	Yes
----	----------------------------------	-----	----	---------------------------------------	-----

Nonresidential and Hotel/ Motel Ventilation Systems

04	05	06	07
----	----	----	----

Table Continued

System Name:	WHP	System Design OA CFM Air Flow:	450	System Design Transfer Air CFM:	0	Air Filtration per §120.1(c) and §141.0(b)2 ¹		
						Provided per §120.1(c) (NR & Hotel/Motel)		
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of showerheads / toilets	# of people ⁵	Required Min OA CFM	Required Minimum CFM	Provided per Design CFM	DCV or Occupant Sensor Controls per §120.1(d)(3), §120.1(d)(5) & §120.2(e)3 ⁶
WHP	Classroom (age 5-18)	1,000			150		0	DCV Occ Sensor NA: Not required space type

17	Total System Required Min OA CFM	150	18	Ventilation for this System Complies?	Yes
----	----------------------------------	-----	----	---------------------------------------	-----

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 (Created 09/2020)

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Project Name: North Shoreview Montessori School - HVAC Replacement

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Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/System.
² Air filtration requirements apply to the following three system types per §120.1(c)2: 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.
³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
⁴ See Standards Tables 120.1-A and 120.1-B
⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
⁶ §120.2(e)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 250ft² or smaller, multipurpose rooms less than 1,000ft², 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(f).

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 §120.3 and prescriptive requirements found in §140.4(f) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct system(s):

11	No	The scope of the project includes only duct systems serving healthcare facilities.	Duct leakage testing triggered for these systems?	No
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	No	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	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:		
		<input type="checkbox"/> Outdoors		
		<input type="checkbox"/> 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)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		<input type="checkbox"/> In an unconditioned crawlspace		
		<input type="checkbox"/> 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.		

Table Continued

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

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NRCC-MCH-E (Created 09/2020)

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Project Name: North Shoreview Montessori School - HVAC Replacement

Report Page: 3 of 12

Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

A. GENERAL INFORMATION

Table Instructions: 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.

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

¹ 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 Dry System Components	
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer	
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat	
Mechanical Controls		Hydronic System Piping	
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new)	
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation	
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes	

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	AND	02 Pumps §140.4(b)1	AND	03 Fans/ Economizers §140.4(c), §140.4(d), §140.4(e)	AND	04 System Controls §110.2, §120.2, §140.4(f)	AND	05 Ventilation §120.1	AND	06 Terminal Box Controls §140.4(d)	AND	07 Distribution Towers §120.3, §140.4(i)	AND	08 Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	COMPLIES
Yes	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	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

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CERTIFICATE OF COMPLIANCE

NRCC-MCH-E (Created 09/2020)

Page 2 of 12

Project Name: North Shoreview Montessori School - HVAC Replacement

Report Page: 2 of 12

Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

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 schedules 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(c) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available ¹ §140.4(a)	Equipment Sizing per Mechanical Schedule (kBtu/h)		Cooling Output ^{1,2}	Load Calculations ^{3,4}	Total Heating (kBtu/h)	Total Sensible Cooling (kBtu/h)	
				Per Design (kBtu/h)	Rated (kBtu/h)					
HP/FC	Unitary heat pumps (no elec. resistance)	Air cooled, split (1 phase)	Yes	60	60	0	54	54		
WHP	Unitary heat pumps	Air cooled, package (1 phase)	Yes	48	48	12	48	48		
AC	Unitary AC/ Condensers	AC, air cooled, package (3 phase)	Yes	88	110	0	38	48		
F/CU	Furnace + AC	AC, air cooled, split + warm-air central furnace, gas-fired	Yes	78	80	0	48	48		

Table Continued

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

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Page 3 of 12

Project Name: North Shoreview Montessori School - HVAC Replacement

Report Page: 3 of 12

Project Address: 1301 Cypress Avenue, San Mateo, CA 94401

Date Prepared: 2021-05-08

Table Continued

¹ 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.
² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09	
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	
HP/FC	<65,000		HSPF	8.2	9		SEER	14	17.1
WHP	<65,000		HSPF	8	8		SEER	14	14
AC	<65,000				0.8		SEER	13	20
F/CU	≥45kBtu/h cooling/ <225kBtu/h heating		AFUE	0.8	0.96		EER	11.7	12
							SEER	14	17

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(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

Table Continued

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

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APP: 01-119526 INC.

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DATE: 10/27/2021

aedis architects

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387 S. 1st Street, Suite 300
San Jose, CA 95118
t e l : (4 0 8) - 3 0 0 - 5 1 6 0
f a x : (4 0 8) - 3 0 0 - 5 1 2 1

PROJECT

NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

CONSULTANT

DEC 09/NOV 21/07
CYPRESS Engineering Group

HVAC, Plumbing, Fire Protection, Mechanical, Electrical, and Environmental Compliance Training & Technical Support
551 E. 1st St., Suite A3
8th Floor, Suite A3
Monterey, CA 93940
cypresseng.com

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APPL #

01-119526

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No. Description Date

MILESTONES

DD

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DSA SUB

05/24/2021

BACKCHECK

10/22/2021

SHEET

TITLE 24 DOCUMENTS-MECHANICAL

DATE

10/22/2021

JOB #

2021005.05

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

CERTIFICATE OF COMPLIANCE
Project Name: North Shoreview Montessori School - HVAC Replacement
Project Address: 1301 Cypress Avenue, San Mateo, CA 94401
Report Page: Page 10 of 12
Date Prepared: 2021-05-08

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
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>

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

CERTIFICATE OF COMPLIANCE
Project Name: North Shoreview Montessori School - HVAC Replacement
Project Address: 1301 Cypress Avenue, San Mateo, CA 94401
Report Page: Page 11 of 12
Date Prepared: 2021-05-08

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
	Plan sheet or construction document location
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	No
03	04
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per §110.1	MP0.02
Cooling Equipment Efficiency per §110.1	MP0.02
Furnace Standby Loss Control per §110.2(d)	NA
Duct Insulation per §120.4	23 05 00
Heating Hot Water Equipment Efficiency per §110.1	NA
Cooling Chilled and Condenser Water Equipment Efficiency per §110.1	NA
Open and Closed Circuit Cooling Towers conductivity of flow-based controls per §110.2(e)	NA
Open and Closed Circuit Cooling Towers Flow Meter with analog output per §110.2(e)	NA
Open and Closed Circuit Cooling Towers Overflow Alarm per §110.2(e)	NA
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators per §110.2(e)	NA
Pipe Insulation per §120.3(b)	NA
Combustion air shutoff, combustion air fan controls and stack design and controls for boilers per §120.9	NA
Heat Pump with Supplementary Electric Resistance Heater Controls per §110.2(b)	NA
The air duct and plenum system is designed per §120.4(a)-(f)	Yes
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2	NA

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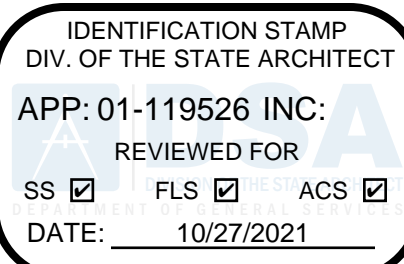
CERTIFICATE OF COMPLIANCE
Project Name: North Shoreview Montessori School - HVAC Replacement
Project Address: 1301 Cypress Avenue, San Mateo, CA 94401
Report Page: Page 12 of 12
Date Prepared: 2021-05-08

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

Documentation Author Name: Chahan Shah
Company: Cypress Engineering Group
Address: 8 Harris Court, Suite A8
City/State/Zip: Monterey, CA 93940
Documentation Author Signature: *Chahan S. Shah*
Signature Date: 5/8/21
CEA/ HERS Certification Identification (if applicable):
Phone: 8312181802

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: Metin Serttunc
Company: Cypress Engineering Group
Address: 8 Harris Court, Suite A8
City/State/Zip: Monterey, CA 93940
Responsible Designer Signature: *Metin Serttunc*
Date Signed: 5/8/21
License: M31059
Phone: 8312181802



aedis
architects

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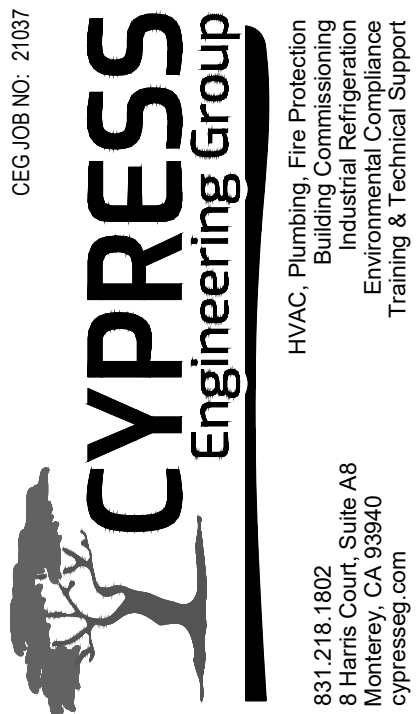
PROJECT

NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT

DEC 08 NO. 2107



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DSA FILE NUMBER 41-26

APPL # 01-119526

REVISIONS

No. Description Date

MILESTONES

DD
90% CD
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BACKCHECK 10/22/2021

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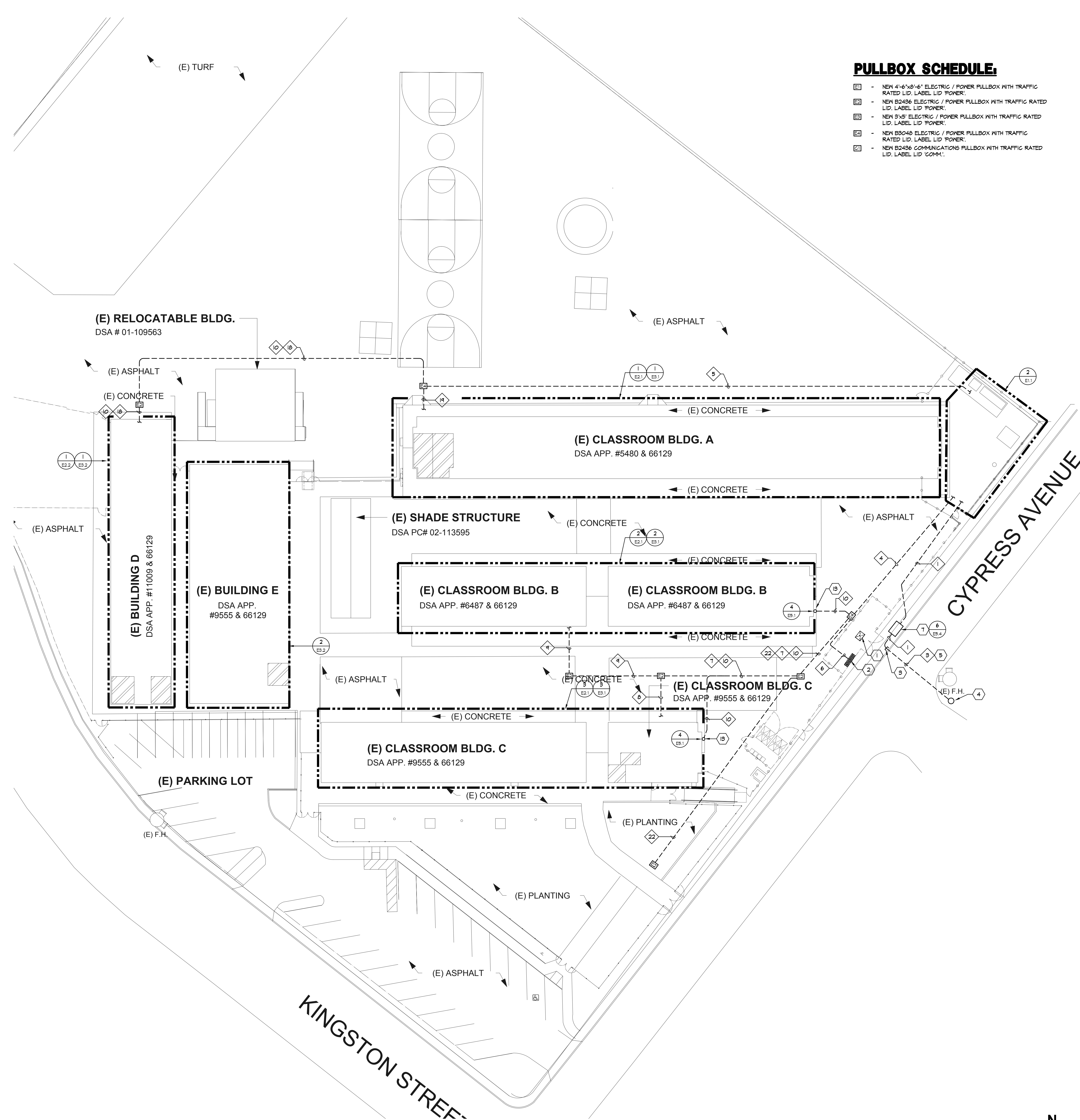
TITLE 24
DOCUMENTS-
MECHANICAL

DATE 10/22/2021

JOB # 2021005.05

SHEET #

MP8.02



PULLBOX SCHEDULE.

- NEW 4'-6"x8'-6" ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID, LABEL LID "POWER".
- NEW B2436 ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID, LABEL LID "POWER".
- NEW 3'x5' ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID, LABEL LID "POWER".
- NEW B2048 ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID, LABEL LID "POWER".
- NEW B2436 COMMUNICATIONS PULLBOX WITH TRAFFIC RATED LID, LABEL LID "COMM".

GENERAL NOTES:

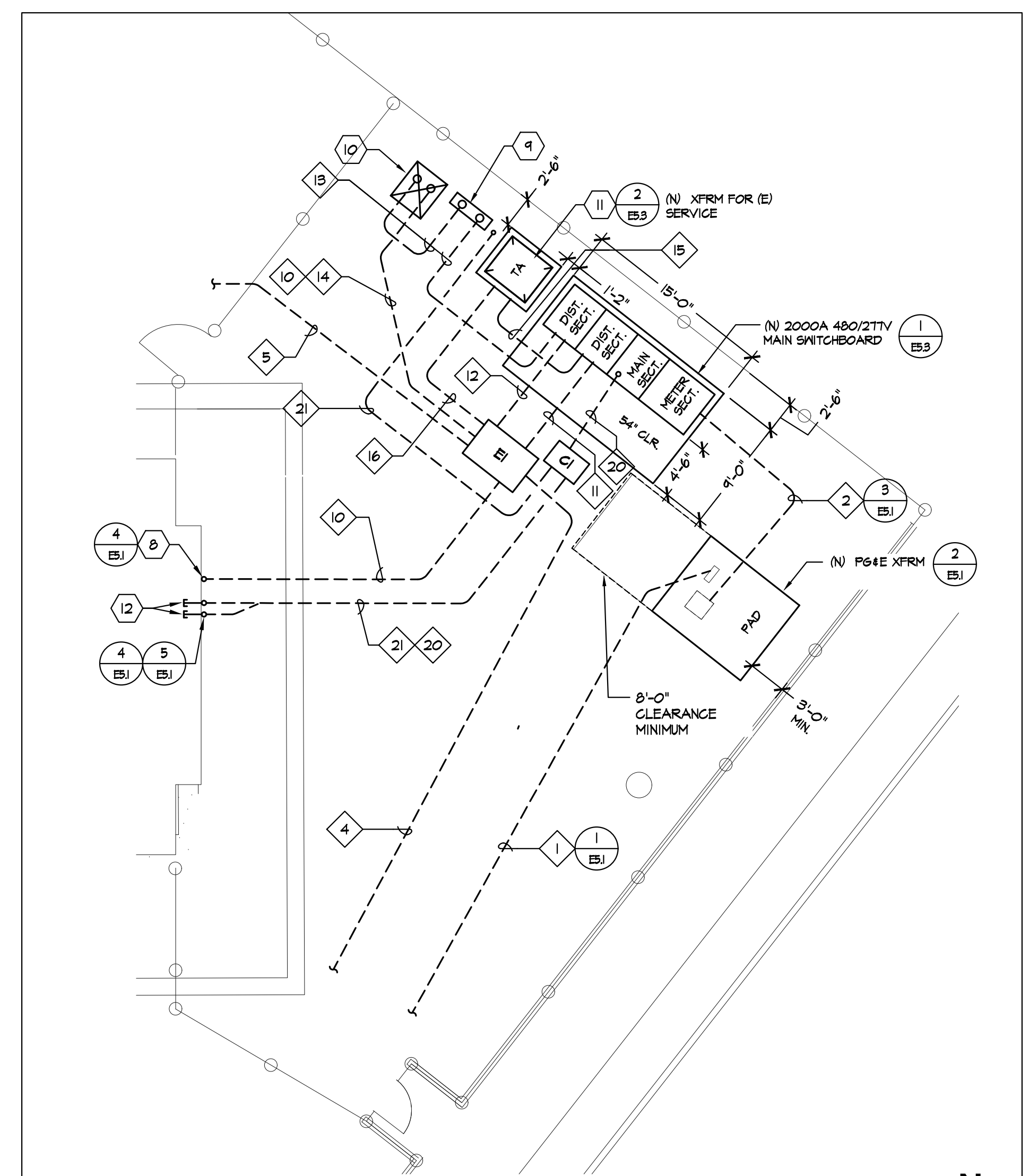
- CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAN CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
- CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE NEW TRENCH WORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE EXISTING UNDERGROUND SYSTEMS/CONDUIT/PIES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE EXISTING UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE NEW ELECTRICAL TRENCH WORK.
- INSTALL P64E PRIMARY TRENCH PER 1/ ES1.
- INSTALL P64E SECONDARY TRENCH PER 3/ ES1.
- P64E TRANSFORMER PAD SHALL BE PER 2/ ES1.
- ALL ON SITE TRENCH SHALL BE INSTALLED PER 3/ ES4.
- SEE THE DEMO SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- SEE NEW SINGLE LINE DIAGRAM FOR FEEDER CABLE AND CONDUIT REQUIREMENTS.
- THE CONTRACTOR SHALL HANDREL THROUGH THE ENTIRE P64E CONDUIT SYSTEM, COORDINATE WITH P64E FOR ADDITIONAL REQUIREMENTS AND PROCEDURES.

SHEET NOTES:

- | | |
|--|---|
| 1 EXISTING P64E TRANSFORMER TO BE REMOVED. | 9 FUTURE PV DISCONNECT SWITCH. |
| 2 EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL "DPI". | 10 FUTURE PV DISTRIBUTION PANEL. |
| 3 INTERCEPT EXISTING P64E PRIMARY CONDUIT. | 11 NEW 225KVA TRANSFORMER "TDPI". |
| 4 EXISTING P64E UTILITY POLE WITH RISER. | 12 STUB CONDUIT HIGH ON THE WALL INSIDE THE ROOM AT CEILING LEVEL. VERIFY LOCATION WITH EXISTING ROOM CONDITION AND LAYOUT. |
| 5 EXISTING P64E PRIMARY STREET CROSSING TO REMAIN. INTERCEPT THE PRIMARY CONDUIT ON THE SCHOOL SIDE OF THE STREET AND EXTEND AS SHOWN. | 13 STUB PV CONDUIT IN THIS LOCATION. CONDUIT TO BE STUBBED UP AT BUILDING'S WALL. STUB UP AT +18" A.F.F. AND CAP. |
| 6 EXISTING P64E GAS METER LOCATION. | |
| 7 NEW 3'x5' P64E PULLBOX. | |
| 8 STUB PV CONDUIT IN THIS LOCATION. CONDUIT TO BE STUBBED TO JUST OUTSIDE CONCRETE SIDEWALK. STUB UP AT +18" A.F.F. AND CAP. | |

CONDUIT SCHEDULE.

- | | | |
|----------------------------------|-------------------------------------|--|
| 1 (N) (1) 4" - P64E PRIMARY | 4 (N) (1) 2 1/2" - PANEL "BM" | 18 (N) (1) 2 1/2" - PANEL "DM" |
| 2 (N) (7) 5" - P64E SECONDARY | 10 (N) (1) 2 1/2" - FUTURE PV | 19 (N) (1) 4" - PANEL "AM" |
| 3 (E) (1) 4" - P64E PRIMARY | 11 (N) (2) 4" - PANEL "DPI" | 20 (N) (1) 1" - P64E COMMUNICATIONS |
| 4 (N) (2) 4" - PANEL "DPI" | (N) (1) 2 1/2" - PANEL "BM" | 21 (N) (1) 2" - FUTURE PV COMMUNICATIONS |
| (N) (1) 2 1/2" - PANEL "CM" | (N) (1) 2 1/2" - PANEL "CM" | 22 (N) (2) 2 1/2" - FUTURE EV |
| (N) (2) 2 1/2" - FUTURE PV | (N) (2) 4" - FUTURE POWER | |
| (N) (2) 2 1/2" - FUTURE EV | 12 (N) (1) 4" - PANEL "AM" | |
| 5 (N) (1) 4" - PANEL "AM" | (N) (1) 4" - PANEL "BM" (FUTURE) | |
| (N) (1) 4" - PANEL "BM" (FUTURE) | (N) (1) 2 1/2" - PANEL "DM" | |
| (N) (1) 2 1/2" - PANEL "DM" | (N) (2) 4" - FUTURE POWER | |
| (N) (3) 2 1/2" - FUTURE PV | (N) (2) 2 1/2" - FUTURE EV | |
| (N) (2) 4" - FUTURE POWER | 13 (N) (2) 3" - FUTURE PV | |
| 6 (N) (2) 4" - PANEL "DPI" | 14 (N) (3) 2 1/2" - FUTURE PV | |
| 7 (N) (1) 2 1/2" - PANEL "BM" | (N) (2) 4" - FUTURE PV | |
| (N) (1) 2 1/2" - PANEL "CM" | 15 (N) (1) 4" - XFMR "DPI" | |
| 8 (N) (1) 2 1/2" - PANEL "CM" | 16 (N) (2) 4" - PANEL "DPI" | |
| | 17 (N) (1) 4" - PANEL "BM" (FUTURE) | |



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APP: 01-119526 INC.
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DATE: 10/27/2021

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PROJECT
NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
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DSA FILE NUMBER 41-26
APPL # 01-119526

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DD
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BACKCHECK 10/22/2021

SHEET
**ELECTRICAL
SITE PLAN**

DATE 10/22/2021
JOB # 2021005.05
SHEET #
E1.1

E2.1

PROJECT

NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT



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Job # E2.2 0330.00

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DSA SUB	05/24/2021
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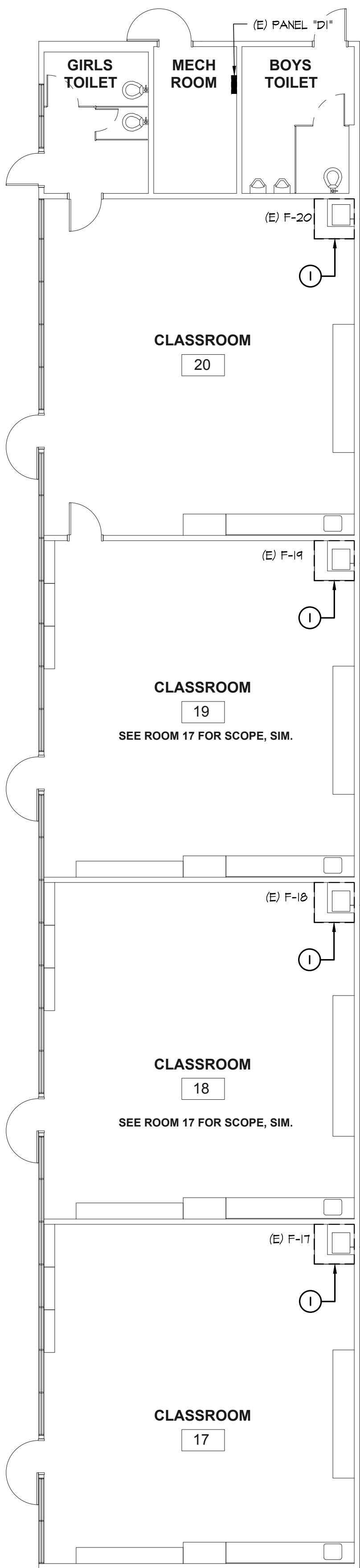
**ELECTRICAL
DEMO FLOOR
PLANS -
BLDGS D & E**

DATE 10/22/2021

JOB # 2021005.05

SHEET #

E2.2

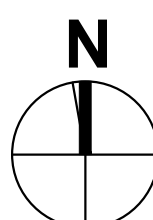


**ELECTRICAL DEMO
FLOOR PLAN - BLDG D**

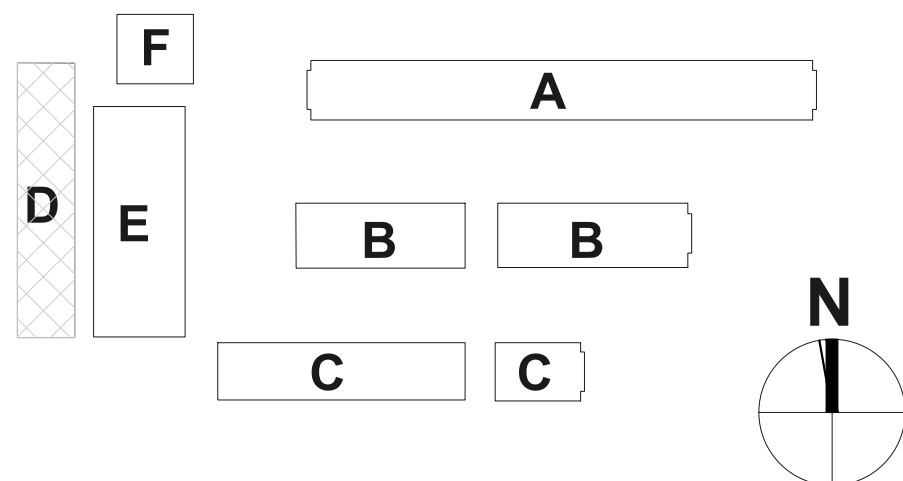
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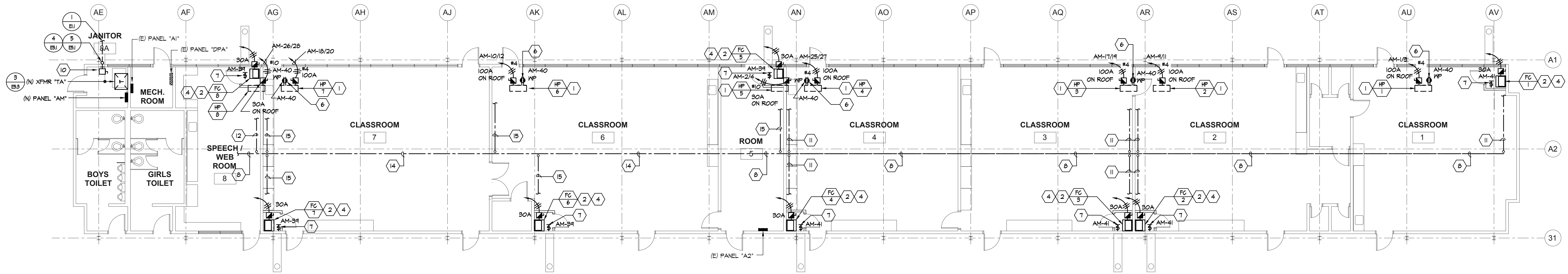
E2.2

SCALE: 1/8" = 1'-0"



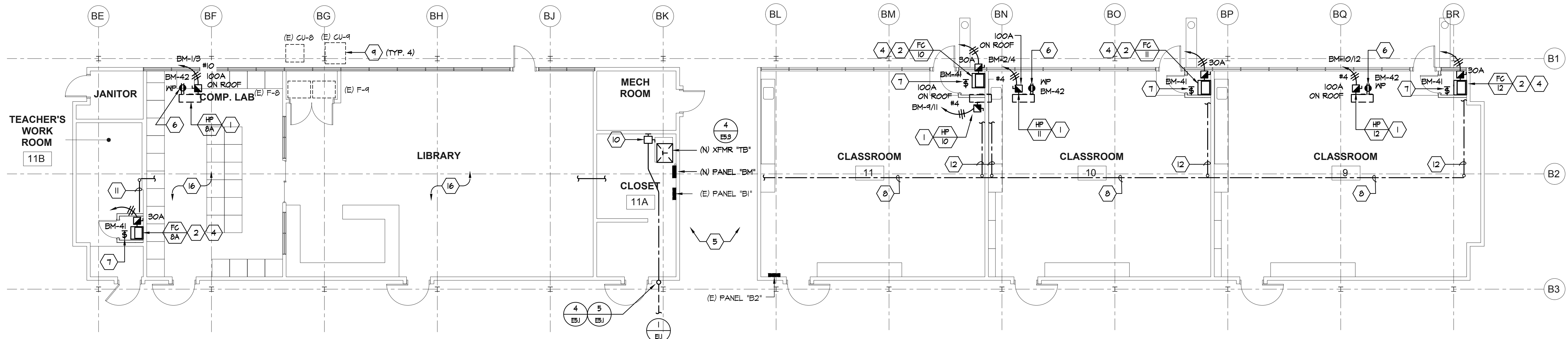
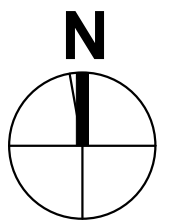
BLDG KEY





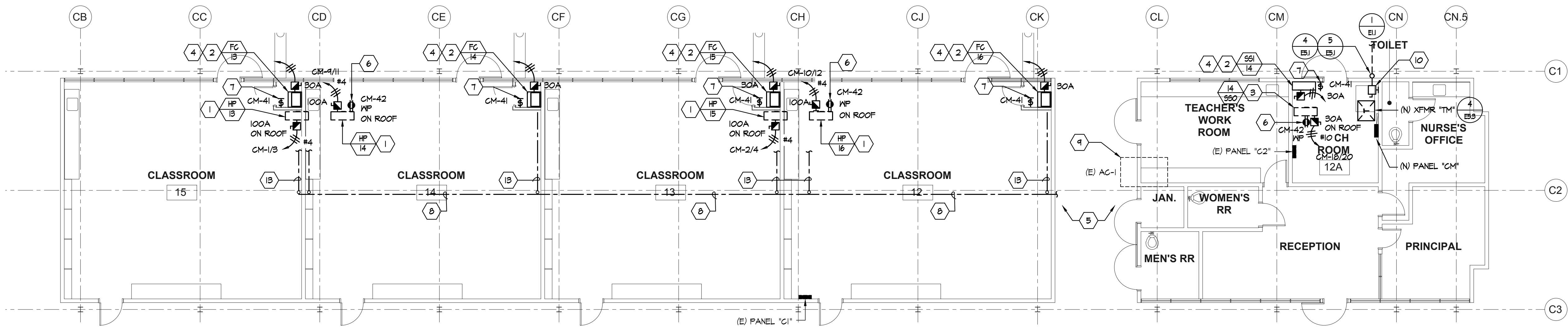
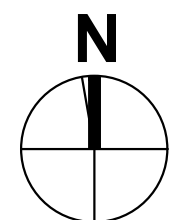
1 ELECTRICAL NEW FLOOR PLAN - BLDG A

E3.1 SCALE: 1/8" = 1'-0"



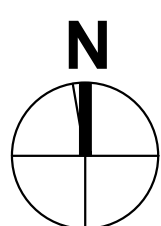
2 ELECTRICAL NEW FLOOR PLAN - BLDG B

E3.1 SCALE: 1/8" = 1'-0"



3 ELECTRICAL NEW FLOOR PLAN - BLDG C

E3.1 SCALE: 1/8" = 1'-0"



GENERAL NOTES:

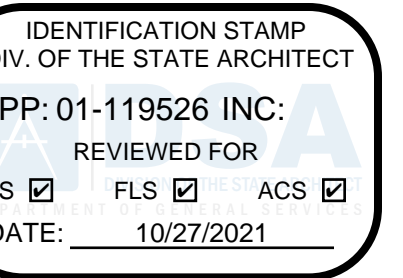
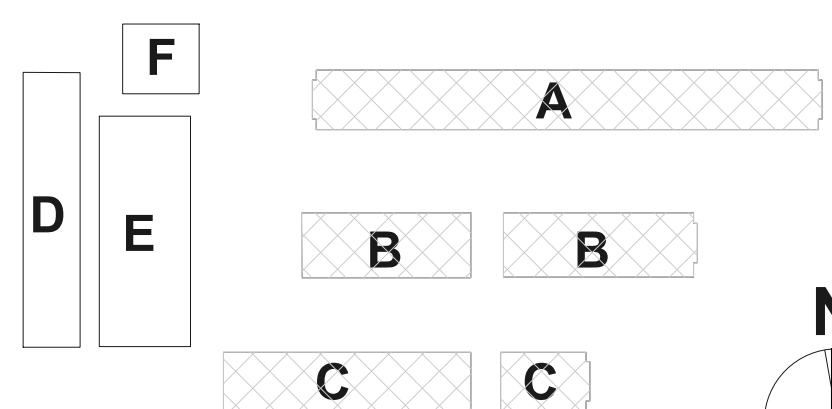
- ALL CONDUITS SHALL BE ROUTED CONCEALED IN CEILING BELOW WHERE POSSIBLE. ALL EXPOSED CONDUITS SHALL BE PAINTED.
- CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND CONNECTION POINTS AS NEEDED.
- SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR POWER CONNECTION REQUIREMENTS.
- COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE 600V RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION.
- ROUTINGS SHOWN AND NOTED IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE TO VERIFY ROOM'S EXISTING CONDITION, COORDINATE AND CONFIRM CONDUIT ROUTING INSIDE BUILDING WITH ARCHITECT AND OWNER REPRESENTATIVE PRIOR TO INSTALLATION.

SHEET NOTES:

- NEW 100A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- NEW 30A-2P, NEMA-1, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- NEW 30A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- INDOOR UNIT IS POWER BY THE OUTDOOR UNIT. ROUTE HOMERUN CIRCUIT TO ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULE MPD02 FOR ADDITIONAL REQUIREMENTS.
- MOUNT CONDUIT ADJACENT TO CHASE AND ROUTE ACROSS THE HALLWAY.
- PROVIDE NEW WEATHERPROOF 6FGI RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER SHALL BE INTERVATIC MPD01MD "BOSS".
- PROVIDE MOTOR RATED SWITCH AND 120V POWER FOR CONDENSATION PUMP.
- ROUTE NEW CONDUIT IN CENTER OF THE ROOM ACROSS THE CEILING. MOUNT ADJACENT TO EXISTING CONDUIT ROUTED ON THE CEILING.

- EXISTS MECHANICAL UNIT AND CONNECTIONS TO REMAIN.
- NEW 400A-3P, NEMA-1, UNFUSED DISCONNECT SWITCH.
- ROUTE CONDUIT UP ALONG WALL TIGHT TO CEILING.
- ROUTE CONDUIT ALONG WALL TIGHT TO LOWER CEILING, UP TO HIGHER CEILING AND TIGHT TO CENTER OF CEILING.
- ROUTE CONDUIT ALONG LOWER CEILING, UP WALL TO HIGHER CEILING AND ON CEILING TO CENTER.
- ROUTE NEW CONDUIT IN CENTER OF THE ROOM ACROSS THE CEILING.
- ROUTE ON CEILING TO CENTER.
- ROUTE CONDUIT IN THE ABOVE ACCESSIBLE CEILING.

BLDG KEY

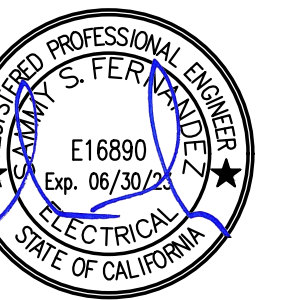


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architects

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PROJECT
NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT
CONSULTANT



American Consulting Engineers
Electrical, Inc.
1380 The Alameda, Suite 200
San Jose, CA 95126
Tel: (408) 234-2311
Fax: (408) 234-2316

STAMP

STATE
DSA FILE NUMBER 41-26
APPL # 01-119526

REVISIONS
No. Description Date

△

MILESTONES
DD
90% CD
DSA SUB 05/24/2021
BACKCHECK 10/22/2021

SHEET

ELECTRICAL
NEW FLOOR
PLANS -
BLDGs A, B & C

DATE 10/22/2021
JOB # 2021005.05
SHEET #

E3.1

PROJECT

NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT



**American Consulting Engineers
Electrical, Inc.**
1380 The Alameda, Suite 200
San Jose, CA 95126
JOB # E3.2 (03/20/20)

STAMP

STATE

DSA FILE NUMBER

41-26

APPL #

01-119526

REVISIONS

No. Description Date

△

MILESTONES

DD

90% CD

DSA SUB

05/24/2021

BACKCHECK

10/22/2021

SHEET

ELECTRICAL
NEW FLOOR
PLANS -
BLDG D & E

DATE

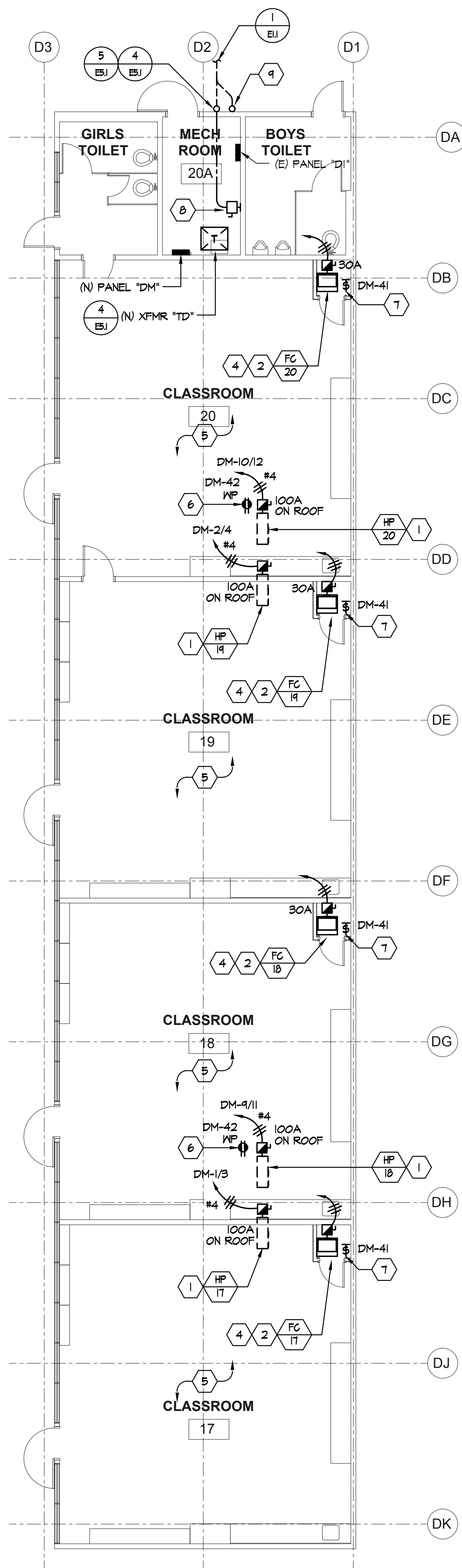
10/22/2021

JOB #

2021005.05

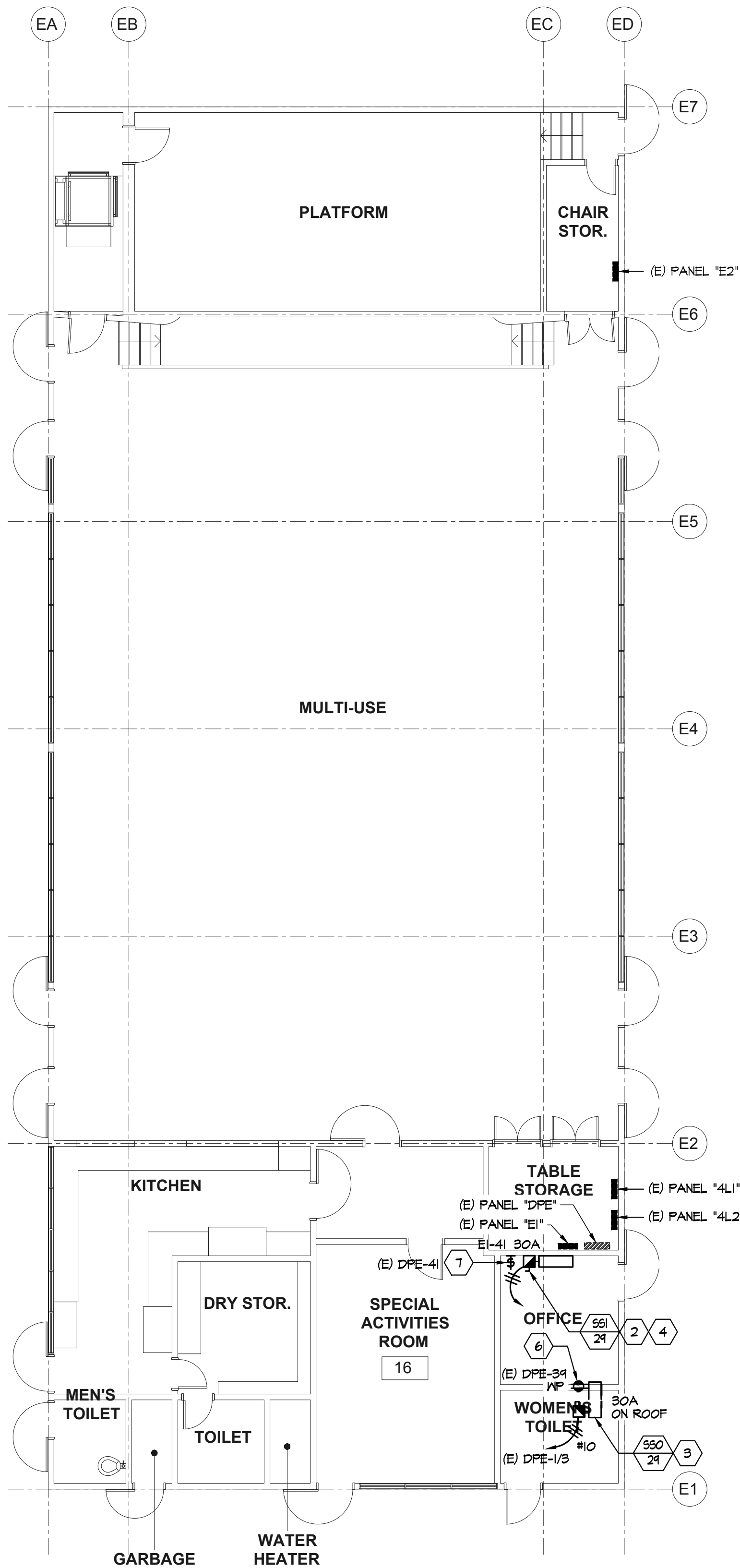
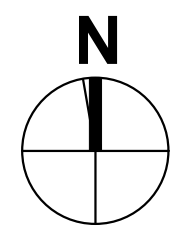
SHEET #

E3.2



**ELECTRICAL NEW
FLOOR PLAN - BLDG D**

1
E3.2 SCALE: 1/8" = 1'-0"



**ELECTRICAL NEW FLOOR
PLAN - BLDG E**

2
E3.2 SCALE: 1/8" = 1'-0"



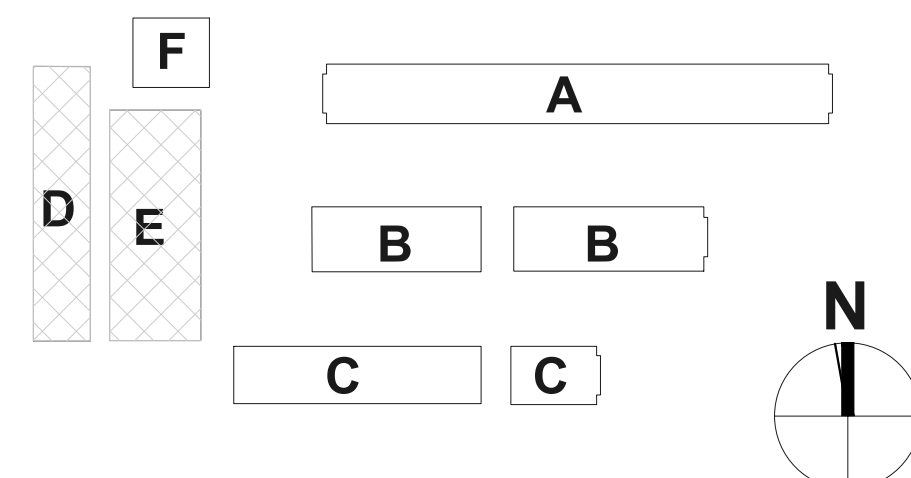
GENERAL NOTES.

1. ALL CONDUITS SHALL BE ROUTED CONCEALED IN CEILING BELOW WHERE POSSIBLE. ALL EXPOSED CONDUITS SHALL BE PAINTED.
2. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND CONNECTION POINTS AS NEEDED.
3. SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR POWER CONNECTION REQUIREMENTS.
4. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE 600V RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION.
6. ROUTING SHOWN AND NOTED IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE TO VERIFY ROOM'S EXISTING CONDITION. COORDINATE AND CONFIRM CONDUIT ROUTING INSIDE BUILDING WITH ARCHITECT AND OWNER REPRESENTATIVE PRIOR TO INSTALLATION.

SHEET NOTES.

- 1 NEW 100A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- 2 NEW 30A-2P, NEMA-1, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- 3 NEW 30A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- 4 INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT. ROUTE HOMERUN CIRCUIT TO ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULE MPO.02 FOR ADDITIONAL REQUIREMENTS.
- 5 ROUTE NEW CONDUIT IN CENTER OF THE ROOM ACROSS THE CEILING. MOUNT ADJACENT TO EXISTING CONDUIT ROUTED ON THE CEILING.
- 6 PROVIDE NEW WEATHERPROOF GFCI RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER SHALL BE INTERMATIC MP010MAD 'BOSS'.
- 7 PROVIDE MOTOR RATED SWITCH AND 120V POWER FOR CONDENSATION PUMP.
- 8 NEW 400A-3P, NEMA 1, UNFUSED DISCONNECT SWITCH.
- 9 STUB FUTURE SOLAR CONDUIT 18" ABOVE GRADE AT THIS APPROXIMATE LOCATION AND GAP.

BLDG KEY





1. SEE ELECTRICAL SITE PLAN AND ENLARGED SWITCHGEAR PLAN FOR ADDITIONAL REQUIREMENTS.
2. SEE NEW SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH THE PG&E UTILITY COMPANY FOR THE DISCONNECTING AND REMOVAL OF ALL ASSOCIATED EQUIPMENT AND CABLES.

DEMOLITION SHEET NOTES:

- ① EXISTING P641E TRANSFORMER TO BE DISCONNECTED AND REMOVED BY P641E. COORDINATE REMOVAL WITH P641E.
- ② EXISTING P641E PRIMARY CONDUCTORS TO BE REMOVED BY P641E. COORDINATE REMOVAL WITH P641E.
- ③ EXISTING P641E SECONDARY CONDUCTORS AND GROUNDING CONDUCTORS TO BE REMOVED BY P641E. COORDINATE REMOVAL WITH P641E.
- ④ EXISTING P641E UTILITY POLE TO REMAIN.
- ⑤ EXISTING P641E METER, CTS AND PTTs TO BE DISCONNECTED AND REMOVED BY P641E. COORDINATE REMOVAL WITH P641E.
- ⑥ EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL. OPEN, DISCONNECT AND REMOVE EXISTING MAIN CIRCUIT BREAKER. DISCONNECT THE EXISTING MAIN BONDING JUMPER FROM THE GROUND BUS TO THE NEUTRAL BUS.
- ⑦ EXISTING FEEDERS CABLES TO BE DISCONNECTED FROM EXISTING PANEL. PULL BACK TO SOURCE AND REMOVE.
- ⑧ EXISTING ELECTRICAL PANELS TO REMAIN.
- ⑨ EXISTING DISTRIBUTION PANEL TO REMAIN.
- ⑩ EXISTING FEEDER CABLES TO REMAIN.



PROJECT

NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT



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MILESTONES

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DSA SUB

05/24/2021

BACKCHECK

10/22/2021

SHEET

PANEL
SCHEDULES

DATE

10/22/2021

JOB #

2021005.05

SHEET #

E4.3

PANEL NAME:		(N)1M		FED FROM: MSG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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PHASE:		3		BUSSING: 225 AMP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
WIRE:		4		MIN. A/C: 10,000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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MOUNTING:		SURFACE		FEED THRU LUGS: YES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
CIRCUIT DESCRIPTION		LOAD TYPE (KVA)			C/B			CKT			PH			CKT			C/B			LOAD TYPE (KVA)			CIRCUIT DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		LTG	REC	MTR	NCL	AMP/P	#										LTG	REC	MTR	NCL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

PANEL NAME:	(N)5M	FED FROM: MSG						
VOLTAGE:	208/120V	MAIN C/B: MLO						
PHASE:	3	BUSSING: 225 AMP						
WIRE:	4	MIN. A/C: 10,000						
TYPE:	NEMA 1	SUB-FEED C/B:						
MOUNTING:	SURFACE	FEED THRU LUGS: YES						
CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG REC MTR NCL	C/B AMP/P	CKT #	PH #	CKT #	C/B AMP/P	LOAD TYPE (KVA) LTG REC MTR NCL	CIRCUIT DESCRIPTION
(N) HEAT PUMP BA - COMP LAB	4.37 70A	1 A 2 70A	2P				4.37	(N) HEAT PUMP 11 - CLASSROOM 10
" - - - - -	4.37	3 B 4 2P					4.37	" - - - - -
SPARE	20A/1P	5 C 6 20A/1P						SPARE
SPARE	20A/1P	7 A 8 20A/1P						SPARE
(N) HEAT PUMP 10 - CLASSROOM 11	4.37 70A	9 B 10 70A	2P				4.37	(N) HEAT PUMP 12 - CLASSROOM 9
" - - - - -	4.37	11 C 12 2P					4.37	" - - - - -
SPARE	20A/1P	13 A 14 20A/1P						SPARE
SPARE	20A/1P	15 B 16 20A/1P						SPARE
SPARE	20A/1P	17 C 18 20A/1P						SPARE
SPARE	20A/1P	19 A 20 20A/1P						SPARE
SPARE	20A/1P	21 B 22 20A/1P						SPARE
SPARE	20A/1P	23 C 24 20A/1P						SPARE
SPARE	20A/1P	25 A 26 20A/1P						SPARE
SPARE	20A/1P	27 B 28 20A/1P						SPARE
SPARE	20A/1P	29 C 30 20A/1P						SPARE
SPARE	20A/1P	31 A 32 20A/1P						SPARE
SPARE	20A/1P	33 B 34 20A/1P						SPARE
SPARE	20A/1P	35 C 36 20A/1P						SPARE
SPARE	20A/1P	37 A 38 20A/1P						SPARE
(N) MOTOR RATED SWITCH FOR COND. PUMP - BLDG B	0.48	20A/1P	39 B 40 20A/1P				0.54	(N) WEATHERPROOF GFCI REC - BLDG B
" - - - - -	0.48	20A/1P	41 C 42 20A/1P				0 0.5 0 17.5	
	0 0 0.5 17.5						0 0.5 0 17.5	
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA					
(LTG) LIGHTING x 125%	0	1.25	0.0					
(REC) RECEIPTS PER 220.44:	0.5	1.00	0.5					
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0					
(MTR) LARGEST MOTOR x 125%	0.5	1.25	0.6					
+ REMAINING MOTORS x 100%	0	1.00	0.0					
(NCL) NON CONTINUOUS LOAD x 100%	34.9	1.00	34.9					

PANEL NAME:	(N)1M		FED FROM: MSG	
VOLTAGE:	208/120V		MAIN C/B: MLO	
PHASE:	3		BUSSING: 225 AMP	
WIRE:	4		MIN. A/C: 10,000	
TYPE:	NEMA 1		SUB-FEED C/B:	
MOUNTING:	SURFACE		FEED THRU LUGS: YES	

CIRCUIT DESCRIPTION	LOAD TYPE (KVA)				CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA)				CIRCUIT DESCRIPTION
	LTG	REC	MTR	NCL						LTG	REC	MTR	NCL	
(N) HEAT PUMP 17 - CLASSROOM 17			4.37		70A	1	A	2	70A			4.37	(N) HEAT PUMP 19 - CLASSROOM 19	
" - - - - -			4.37			2P	3	B	4	2P		4.37	" - - - - -	
(N) FAN COIL 17 - CLASSROOM 17					20A	5	C	6	20A				(N) FAN COIL 19 - CLASSROOM 19	
" - - - - -						2P	7	A	8	2P			" - - - - -	
(N) HEAT PUMP 18 - CLASSROOM 18			4.37		70A	9	B	10	70A			4.37	(N) HEAT PUMP 20 - CLASSROOM 20	
" - - - - -			4.37		2P	11	C	12	2P			4.37	" - - - - -	
(N) FAN COIL 18 - CLASSROOM 18					20A	13	A	14	20A				(N) FAN COIL 20 - CLASSROOM 20	
" - - - - -						2P	15	B	16	2P			" - - - - -	
SPARE					20A/1P	17	C	18	20A/1P				SPARE	
SPARE					20A/1P	19	A	20	20A/1P				SPARE	
SPARE					20A/1P	21	B	22	20A/1P				SPARE	
SPARE					20A/1P	23	C	24	20A/1P				SPARE	
SPARE					20A/1P	25	A	26	20A/1P				SPARE	
SPARE					20A/1P	27	B	28	20A/1P				SPARE	
SPARE					20A/1P	29	C	30	20A/1P				SPARE	
SPARE					20A/1P	31	A	32	20A/1P				SPARE	
SPARE					20A/1P	33	B	34	20A/1P				SPARE	
SPARE					20A/1P	35	C	36	20A/1P				SPARE	
SPARE					20A/1P	37	A	38	20A/1P				SPARE	
(N) MOTOR RATED SWITCH FOR COND. PUMP - BLDG D			0.48		20A/1P	39	B	40	20A/1P				(N) WEATHERPROOF GFCI REC - BLDG D	
" - - - - -			0.48		20A/1P	41	C	42	20A/1P		0.36		" - - - - -	
	0	0	0.5	17.5						0	0.4	0	17.5	

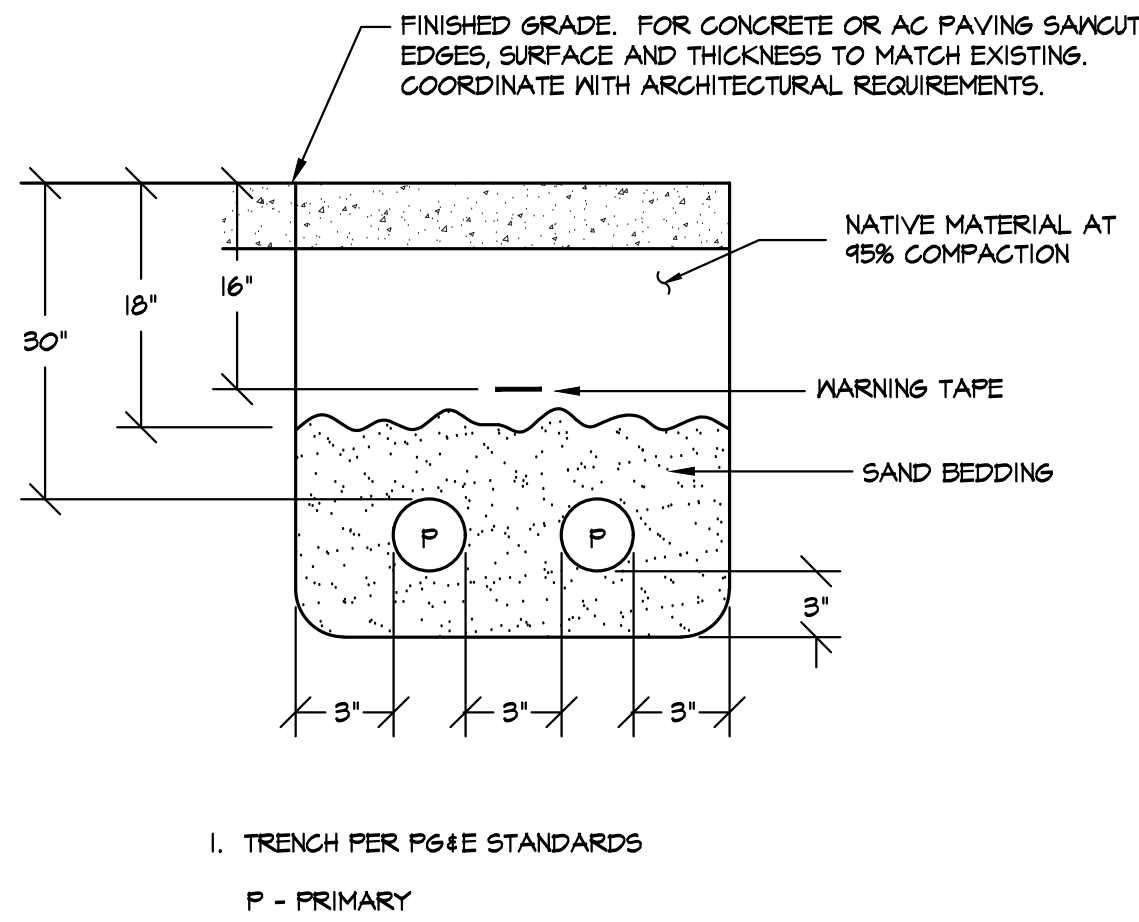
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	0	1.25	0.0
(REC) RECEIPTS PER 220.44	0.4	1.00	0.4
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0
(MTR) LARGEST MOTOR X 125%	0.5	1.25	0.6
+ REMAINING MOTORS x 100%	0	1.00	0.0
(NCL) NON CONTINUOUS LOAD x 100%	34.9	1.00	34.9

Yes/No		
FULL RATED A/C	A	N
SERIES RATED A/C	A	N
SUB FEED CONNECTED LOAD	SPD	N
COPPER BUSSING Y		
ALUMINUM BUSSING N		

KVA PHASE A (CONNECTED)	8.7
KVA PHASE B (CONNECTED)	17.5
KVA PHASE C (CONNECTED)	9.8
TOTAL DEMAND KVA	35.9
TOTAL LOAD AMPERES	99.7

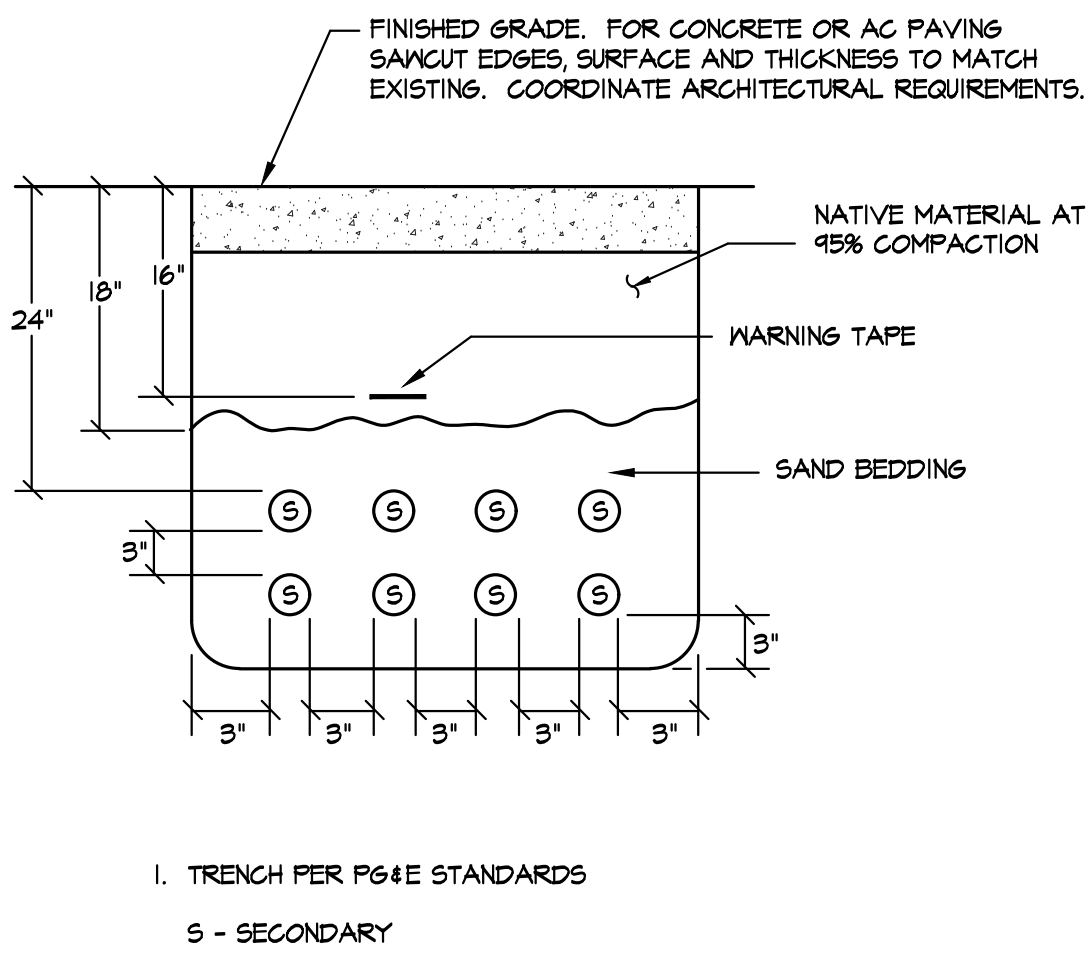
PANEL NAME:	(E)E1"										FED FROM: MSG											
VOLTAGE:	208/120V										MAIN C/B: MLO											
PHASE:	3										BUSSING: 225 AMP											
WIRE:	4										MIN. A/C: 10,000											
TYPE:	NEMA 1										SUB-FEED C/B:											
MOUNTING:	SURFACE										FEED THRU LUGS: YES											
CIRCUIT DESCRIPTION		LOAD TYPE (KVA)				CB				PH	CKT	CB				LOAD TYPE (KVA)				CIRCUIT DESCRIPTION		
		LTG	REC	MTR	NCL	AMP/P	#	AMP/P	LTG			REC	MTR	NCL								
(N) SPLIT SYSTEM OUTDOOR 20 - WOMENS TOILET					4.37	70A				1	A	2	20A/1P						SPARE			
" - - - - -					4.37	2P				3	B	4	20A/1P						SPARE			
(N) SPLIT SYSTEM INDOOR 20 - OFFICE						20A				5	C	6	20A/1P						SPARE			
" - - - - -						2P				7	A	8	20A/1P						SPARE			
SPARE						20A/1P				9	B	10	20A/1P						SPARE			
SPARE						20A/1P				11	C	12	20A/1P						SPARE			
SPARE						20A/1P				13	A	14	20A/1P						SPARE			
SPARE						20A/1P				15	B	16	20A/1P						SPARE			
SPARE						20A/1P				17	C	18	20A/1P						SPARE			
SPARE						20A/1P				19	A	20	20A/1P						SPARE			
SPARE						20A/1P				21	B	22	20A/1P						SPARE			
SPARE						20A/1P				23	C	24	20A/1P						SPARE			
SPARE						20A/1P				25	A	26	20A/1P						SPARE			
SPARE						20A/1P				27	B	28	20A/1P						SPARE			
SPARE						20A/1P				29	C	30	20A/1P						SPARE			
SPARE						20A/1P				31	A	32	20A/1P						SPARE			
SPARE						20A/1P				33	B	34	20A/1P						SPARE			
SPARE						20A/1P				35	C	36	20A/1P						SPARE			
SPARE						20A/1P				37	A	38	20A/1P						SPARE			
(N) MOTOR RATED SWITCH FOR COND. PUMP - BLDG E					0.24	20A/1P				39	B	40	20A/1P						SPARE			
						20A/1P				41	C	42	20A/1P			0.18			(N) WEATHERPROOF GFCI REC - BLDG E			
					0	0	0.2	8.7								0	0.2	0	0			
LOAD SUMMARY		CONNECTED KVA				DEMAND FACTOR				DEMAND KVA				Yes(No)				KVA PHASE A (CONNECTED)				4.4
(LTG) LIGHTING x 125%		0				1.25				0.0				FULL RATED A/C				Y				4.4
(REC) RECEIPTS PER 220.44:		0.2				1.00				0.2				SERIES RATED A/C				N				0.4
10KVA x 100% + REMAINDER x 50%		0				0.50				0.0				SPD				N				0.4
(MTR) LARGEST MOTOR x 125%		0.2				1.25				0.3				COPPER BUSSING				Y				
+ REMAINING MOTORS x 100%		0				1.00				0.0				ALUMINUM BUSSING				N				
(NCL) NON-CONTINUOUS LOAD x 100%		8.7				1.00				8.7								TOTAL DEMAND KVA				9.2
																		TOTAL LOAD AMPERES				25.8

PANEL NAME:	(N)1CM"	FED FROM: MSG							
VOLTAGE:	208/120V	MAIN C/B: MLO							
PHASE:	3	BUSSING: 225 AMP							
WIRE:	4	MIN. A/C: 10,000							
TYPE:	NEMA 1	SUB-FEED C/B:							
MOUNTING:	SURFACE	FEED THRU LUGS: YES							
CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG REC MTR NCL	C/B AMP/P	CKT #	PH #	CKT #	C/B AMP/P	LOAD TYPE (KVA) LTG REC MTR NCL	CIRCUIT DESCRIPTION	
(N) HEAT PUMP 13 - CLASSROOM 15	4.37 70A	1 A 2 70A	2P				4.37	(N) HEAT PUMP 15 - CLASSROOM 13	
" - - - - -	4.37	3 B 4 2P					4.37	" - - - - -	
SPARE	20A/1P	5 C 6 20A/1P						SPARE	
SPARE	20A/1P	7 A 8 20A/1P						SPARE	
(N) HEAT PUMP 14 - CLASSROOM 14	4.37 70A	9 B 10 70A	2P				4.37	(N) HEAT PUMP 16 - CLASSROOM 12	
" - - - - -	4.37	11 C 12 2P					4.37	" - - - - -	
SPARE	20A/1P	13 A 14 20A/1P						SPARE	
SPARE	20A/1P	15 B 16 20A/1P						SPARE	
SPARE	20A/1P	17 C 18 20A/1P						SPARE	
SPARE	20A/1P	19 A 20 20A/1P						SPARE	
SPARE	20A/1P	21 B 22 20A/1P						SPARE	
SPARE	20A/1P	23 C 24 20A/1P						SPARE	
SPARE	20A/1P	25 A 26 20A/1P						SPARE	
SPARE	20A/1P	27 B 28 20A/1P						SPARE	
SPARE	20A/1P	29 C 30 20A/1P						SPARE	
SPARE	20A/1P	31 A 32 20A/1P						SPARE	
SPARE	20A/1P	33 B 34 20A/1P						SPARE	
SPARE	20A/1P	35 C 36 20A/1P						SPARE	
SPARE	20A/1P	37 A 38 20A/1P						SPARE	
SPARE	20A/1P	39 B 40 20A/1P						SPARE	
(N) MOTOR RATED SWITCH FOR COND. PUMP - BLDG C	0 0 0.48 17.5	20A/1P	41	C	42	20A/1P	0 0.54 0 17.5	(N) WEATHERPROOF GFCI REC - BLDG C	
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	Yes(No)				KVA PHASE A (CONNECTED)	8.7
(LTG) LIGHTING x 125%	0	1.25	0.0	FULL RATED A/C				KVA PHASE B (CONNECTED)	17.5
(REC) RECEPITS PER 220 44	0.5	1.00	0.5	SERIES RATED A/C				SPD N	9.8
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0	SPD N				SUB FEED CONNECTED LOAD	
(MTR) LARGEST MOTOR x 125%	0.5	1.25	0.6	COPPER BUSSING					
+ REMAINING MOTORS x 100%	0	1.00	0.0	ALUMINUM BUSSING					
(NCL) NON CONTINUOUS LOAD x 100%	34.9	1.00	34.9					TOTAL DEMAND KVA	36.1
								TOTAL LOAD AMPERES	100.2



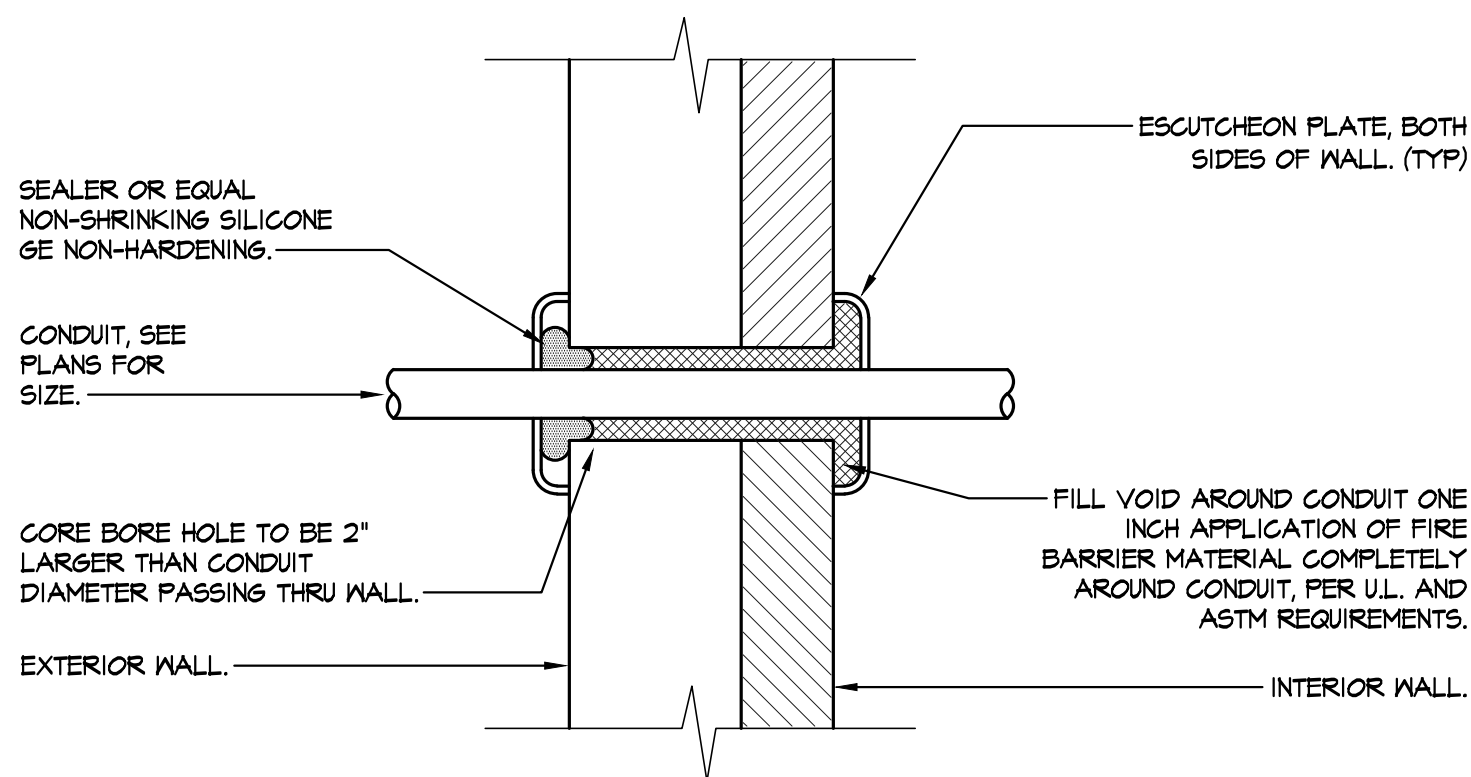
PG&E TRENCH DETAIL PRIMARY SIDE

1
E5.1 NOT TO SCALE



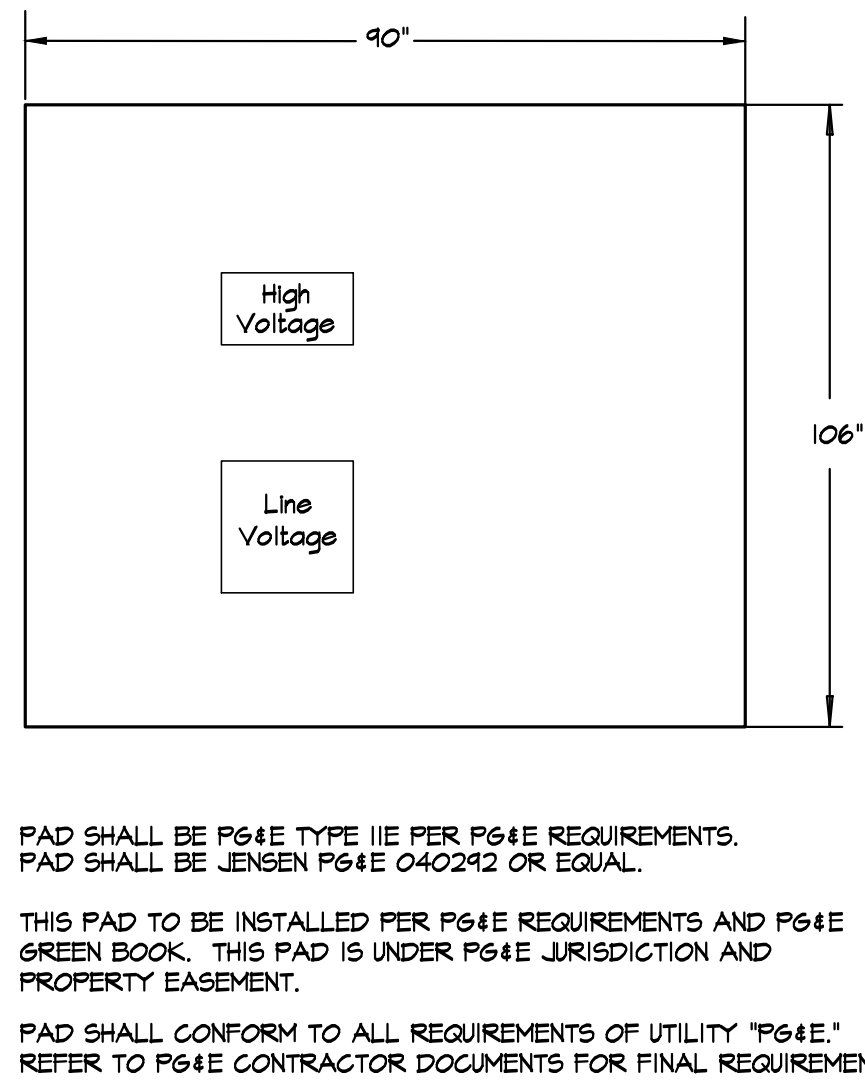
PG&E TRENCH DETAIL SECONDARY SIDE

3
E5.1 NOT TO SCALE



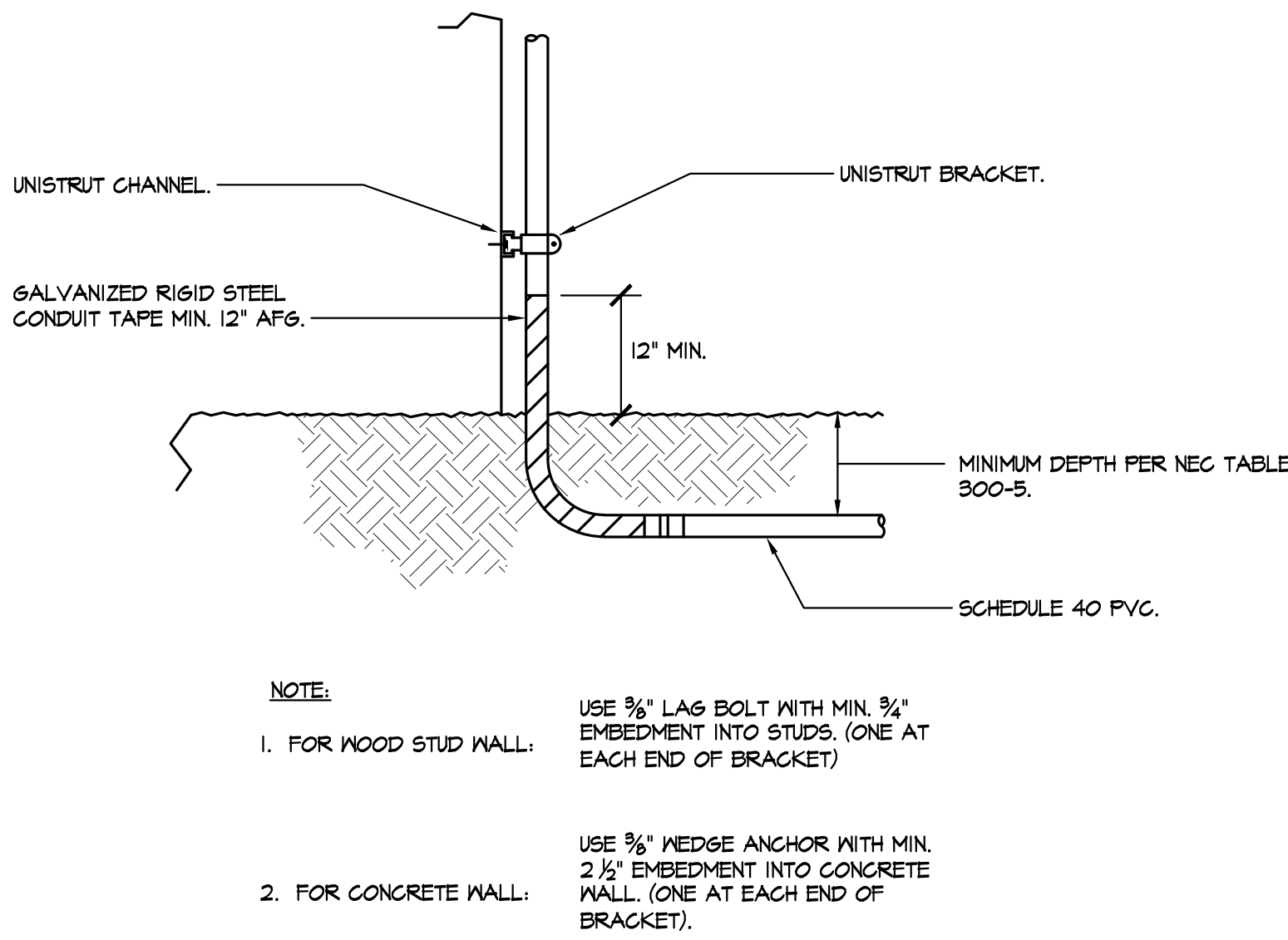
CONDUIT WALL PENETRATION DETAIL

6
E5.1 NOT TO SCALE



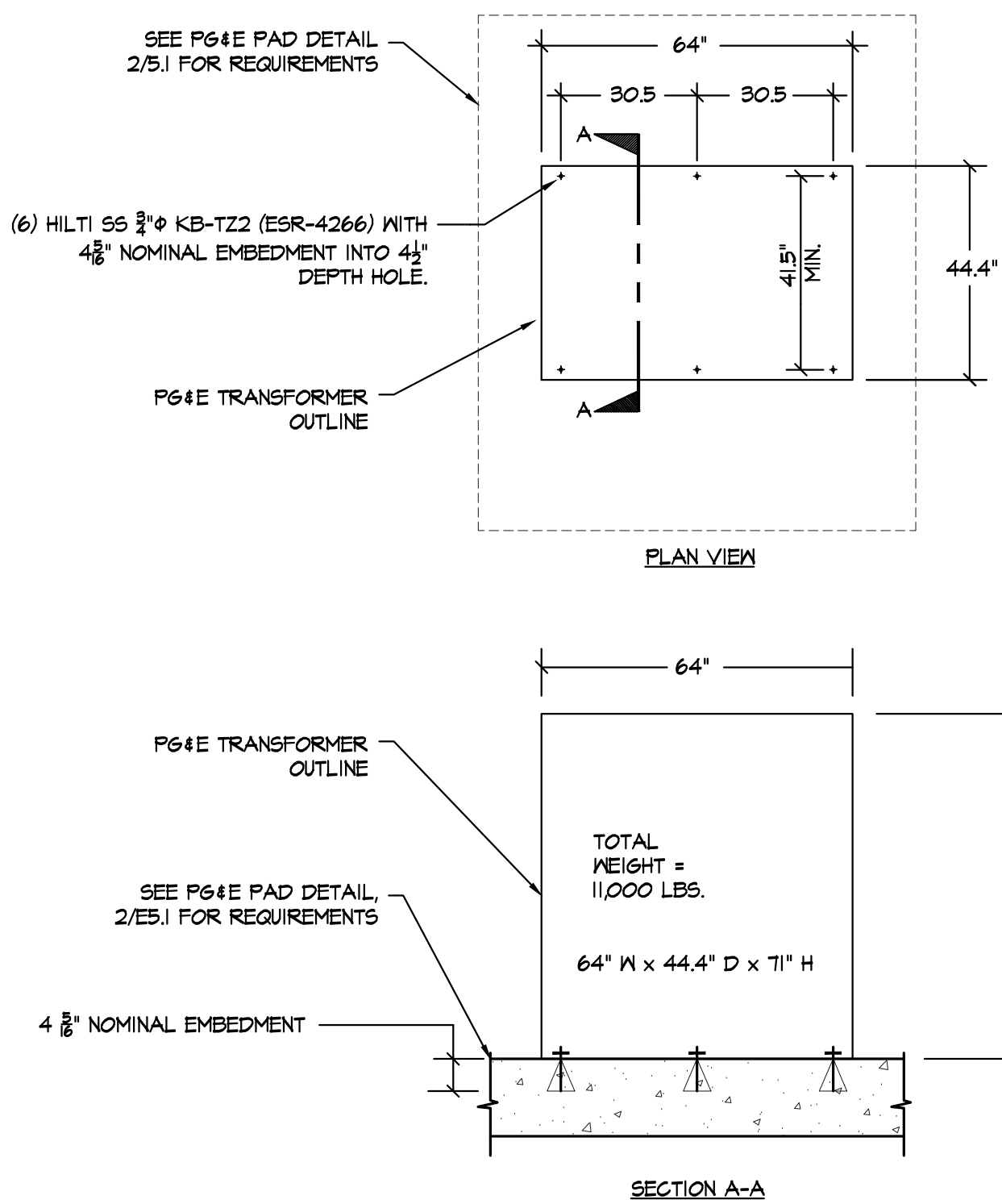
PG&E TRANSFORMER PAD DETAIL

2
E5.1 NOT TO SCALE



UNDERGROUND CONDUIT RISER DETAIL

4
E5.1 NOT TO SCALE



PG&E TRANSFORMER ANCHORAGE DETAIL

7
E5.1 NOT TO SCALE

Concrete Pad Details for Style IID, IIE, and IIG Transformers

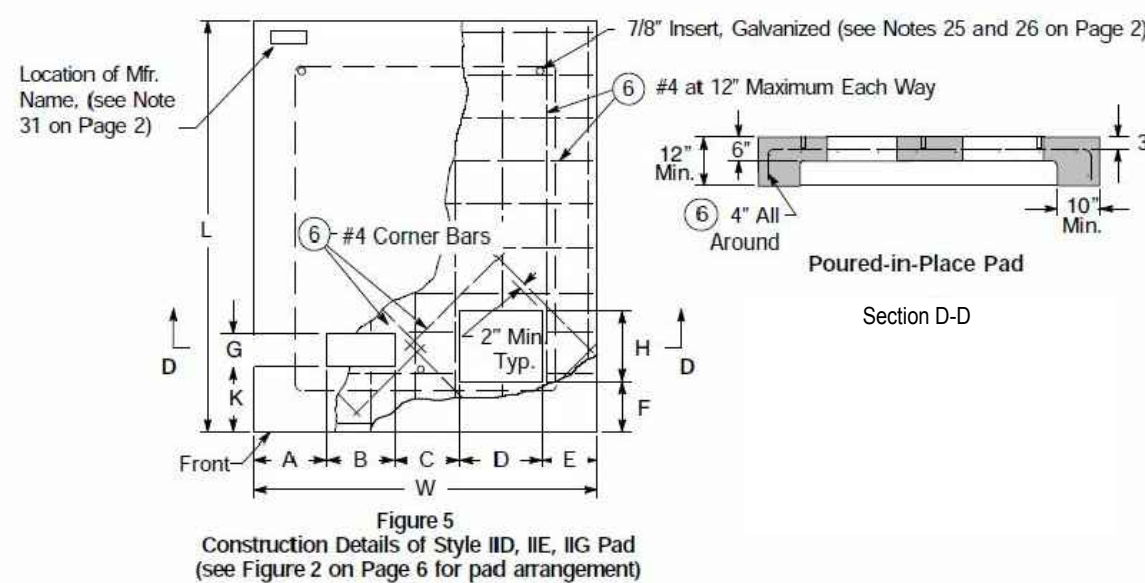
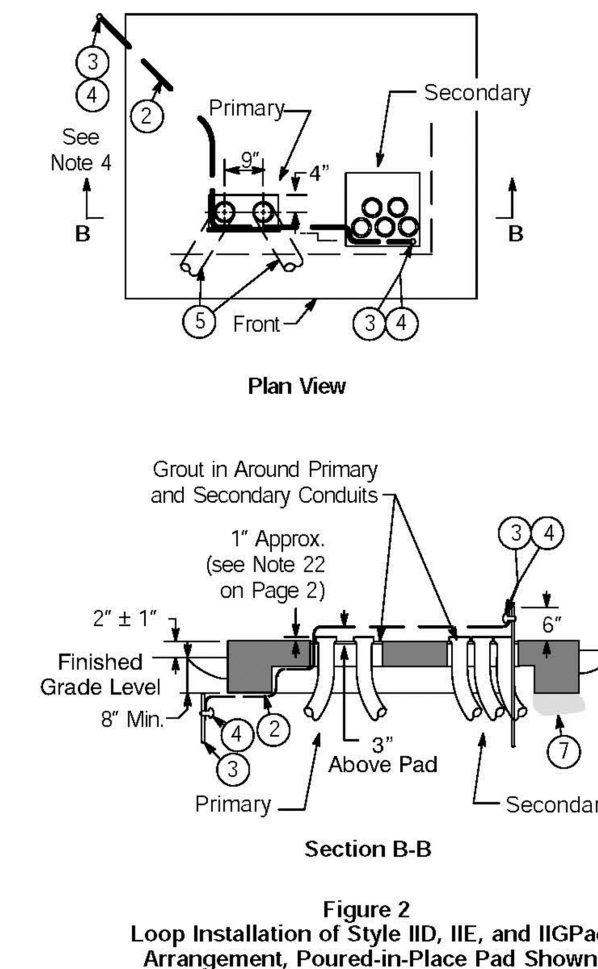


Table 3 Dimensions and Codes for Style IID, IIE, and IIG Transformer Pads¹

Transformer Style	kVA Size	Approximate Maximum Weight (lbs)	Pad Dimensions (inches)											Code
IID and IIE	75	4,600	17	16	15	19	13	10	6	17	14	61	80	040291
	(112.5) ²	4,800												
	150	5,000												
	(225) ²	5,500												
IIE	300	5,800	22	16	15	20	17	20	6	19	25	106	90	040292
	(500) ²	6,100												
	750	9,000												
	1,000	11,000												
IIE	1,500	13,000	22	16	15	20	17	20	6	19	25	106	90	040292
	2,500	16,000												
IIG	2955/3325	22,000	22	16	15	20	17	20	6	19	25	106	90	040292

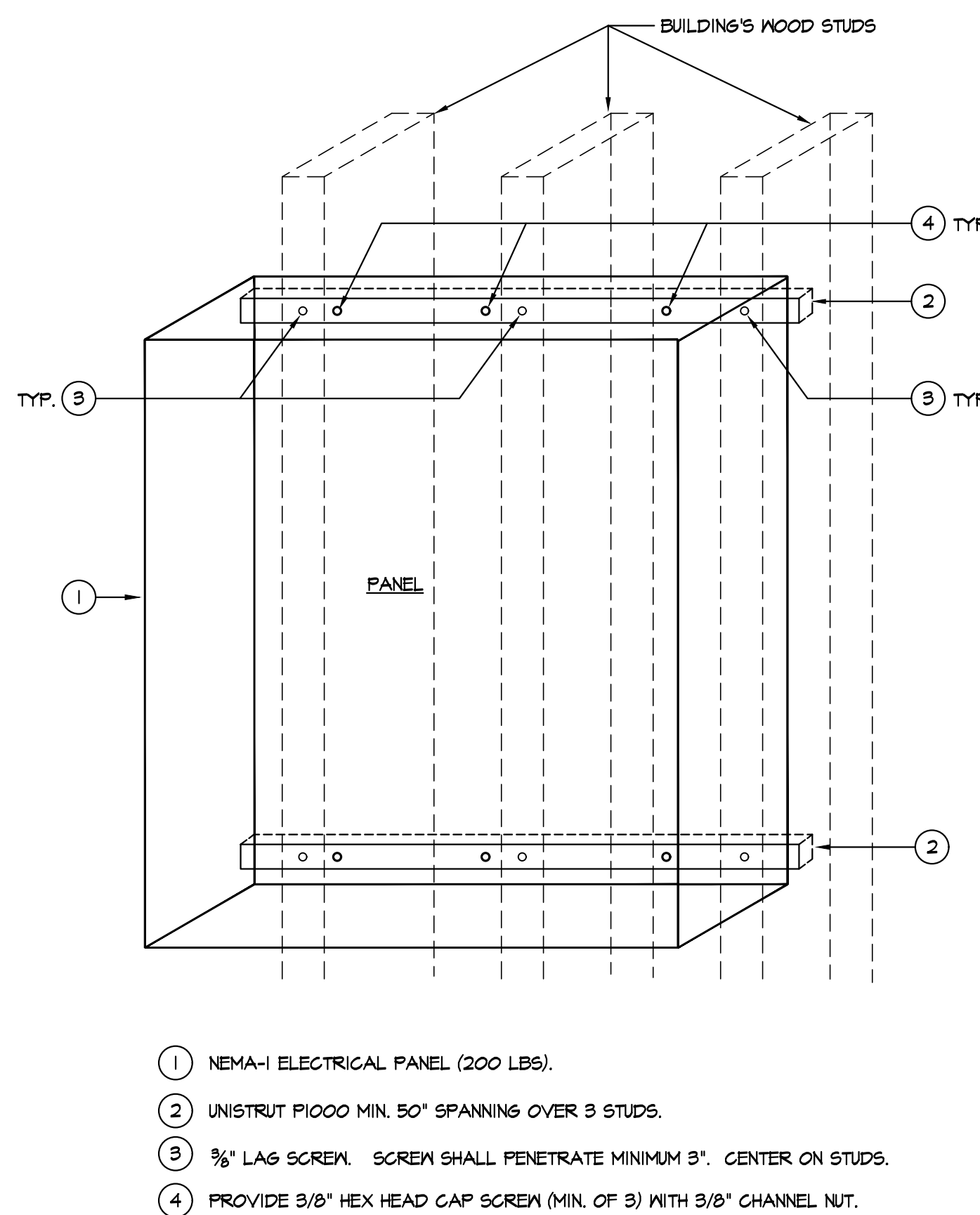
¹ See Document 066211 for approved suppliers.
² () indicates a kVA size that is no longer purchased.

Pad Arrangements for Style IID, IIE, and IIG Transformers



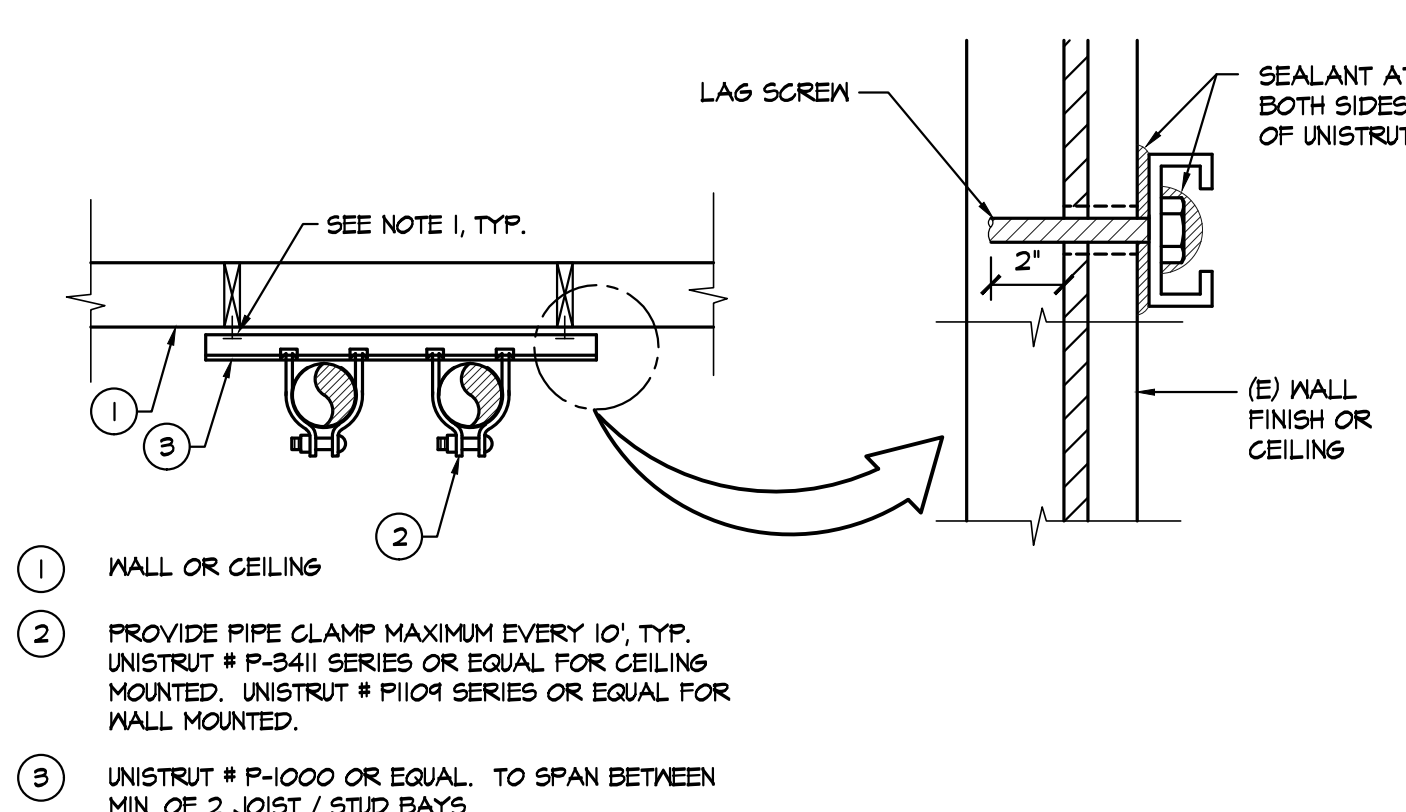
CONDUIT RISER AND WALL PENETRATION - POWER

5
E5.1 NOT TO SCALE



WALL MOUNTED PANEL INSTALLATION (100A-600A)

8
E5.1 NOT TO SCALE



* MAXIMUM CONDUIT TO BE INSTALL SHALL NOT BE GREATER THAN 4" IN SIZE AND MORE THAN 100 LBS IN WEIGHT PER 10'.

NOTE:

1. FOR WOOD STUD WALL OR WOOD ROOF JOIST: USE 3/8" DIA. X MIN. 3" LONG LAG SCREW WITH MIN. 2" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)

TYPICAL CONDUIT SUPPORT DETAIL

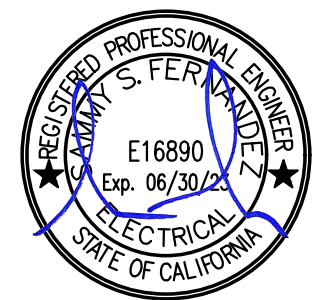
9
E5.1 SCALE: NOT TO SCALE

PROJECT

NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT



American Consulting Engineers
Electrical, Inc.
1980 The Alameda, Suite 200
San Jose, CA 95126
Tel: (408) 552-0500 Fax: (408) 552-0510

STAMP

STATE

DSA FILE NUMBER

41-26

APPL #

01-119526

REVISIONS

No. Description Date

△

MILESTONES

DD

90% CD

DSA SUB

05/24/2021

BACKCHECK

10/22/2021

SHEET

ELECTRICAL
DETAILS

DATE

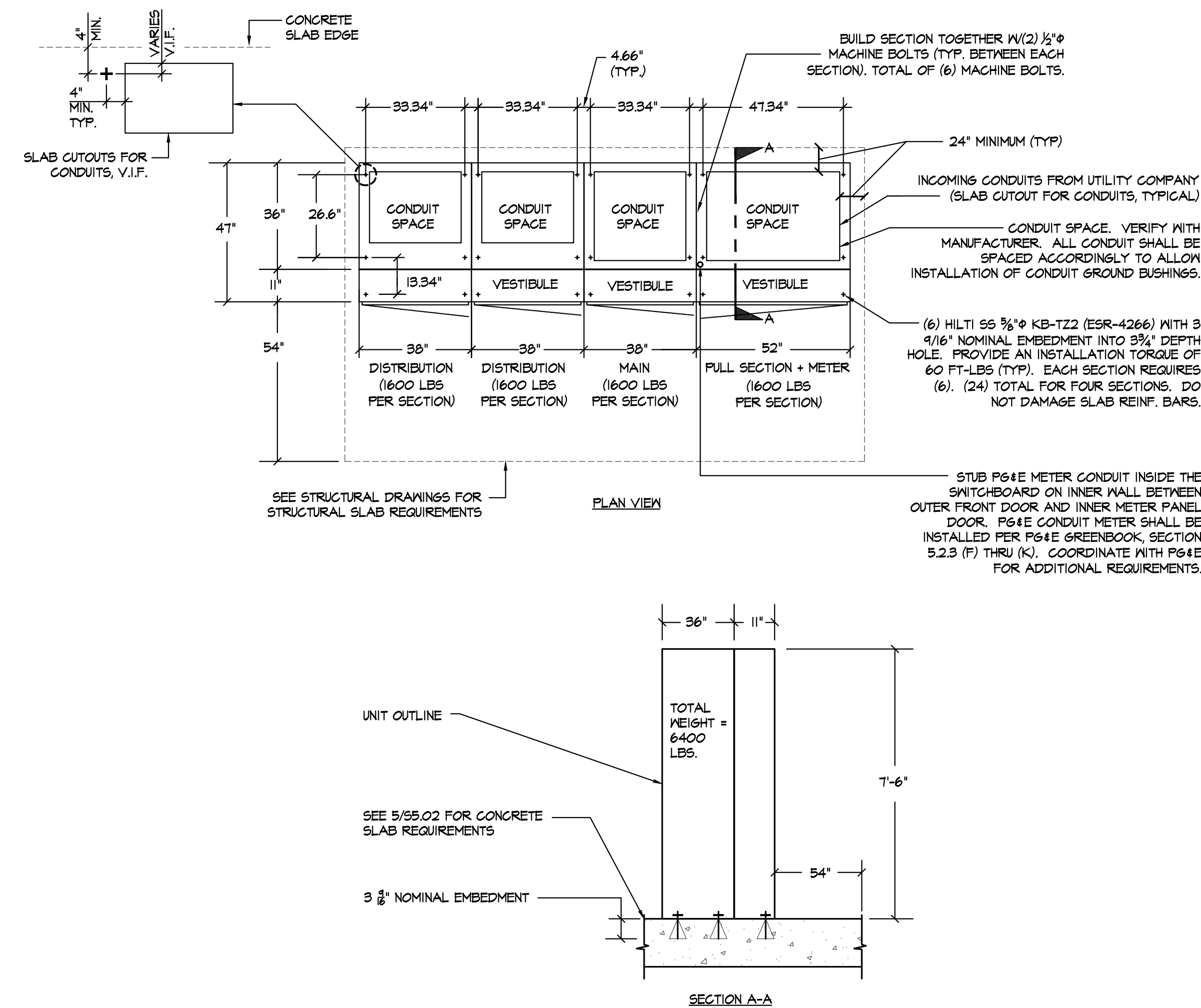
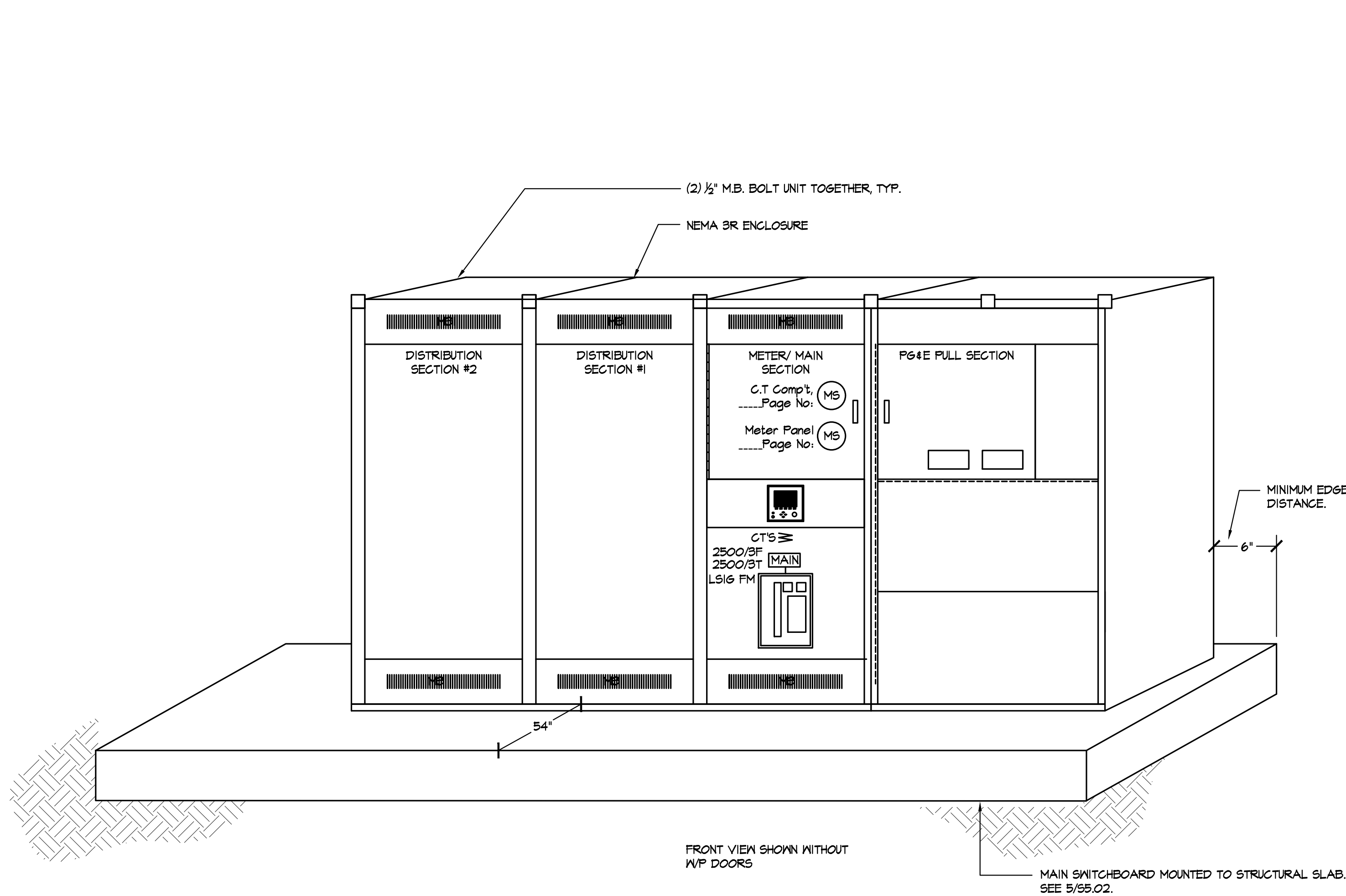
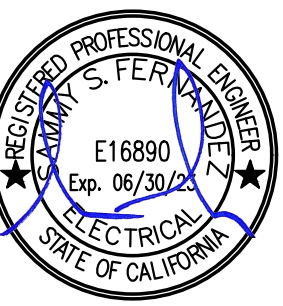
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JOB #

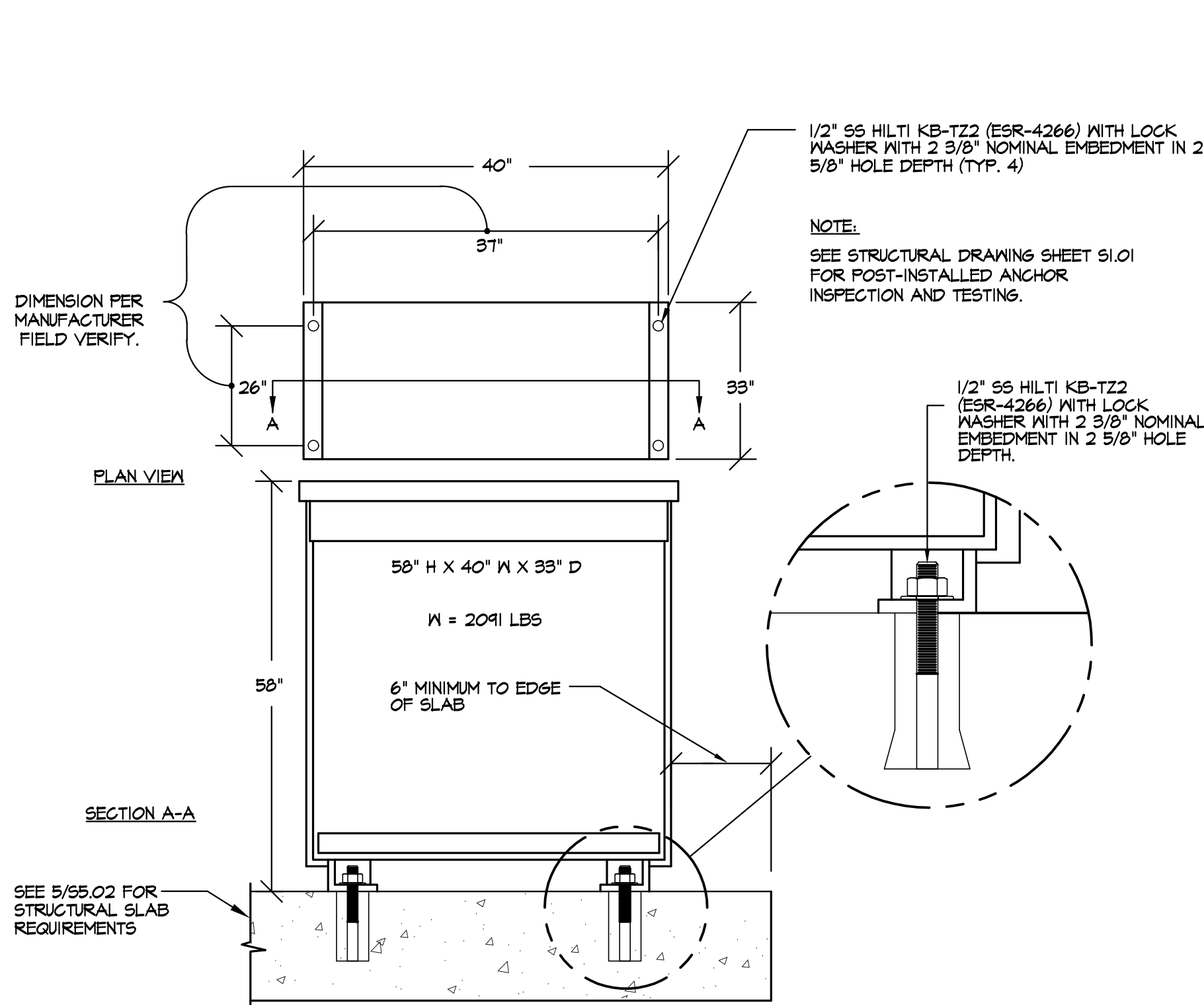
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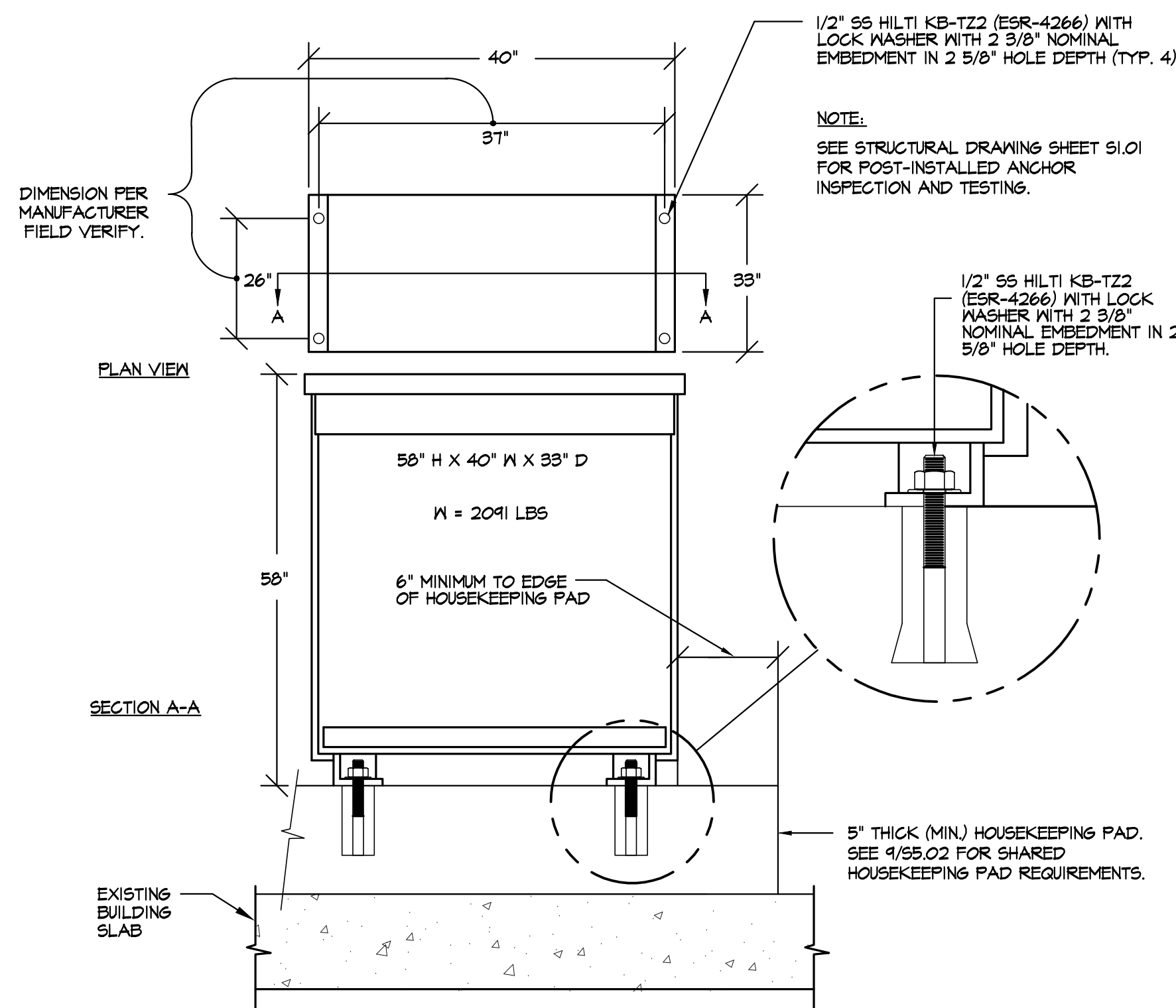
E5.1



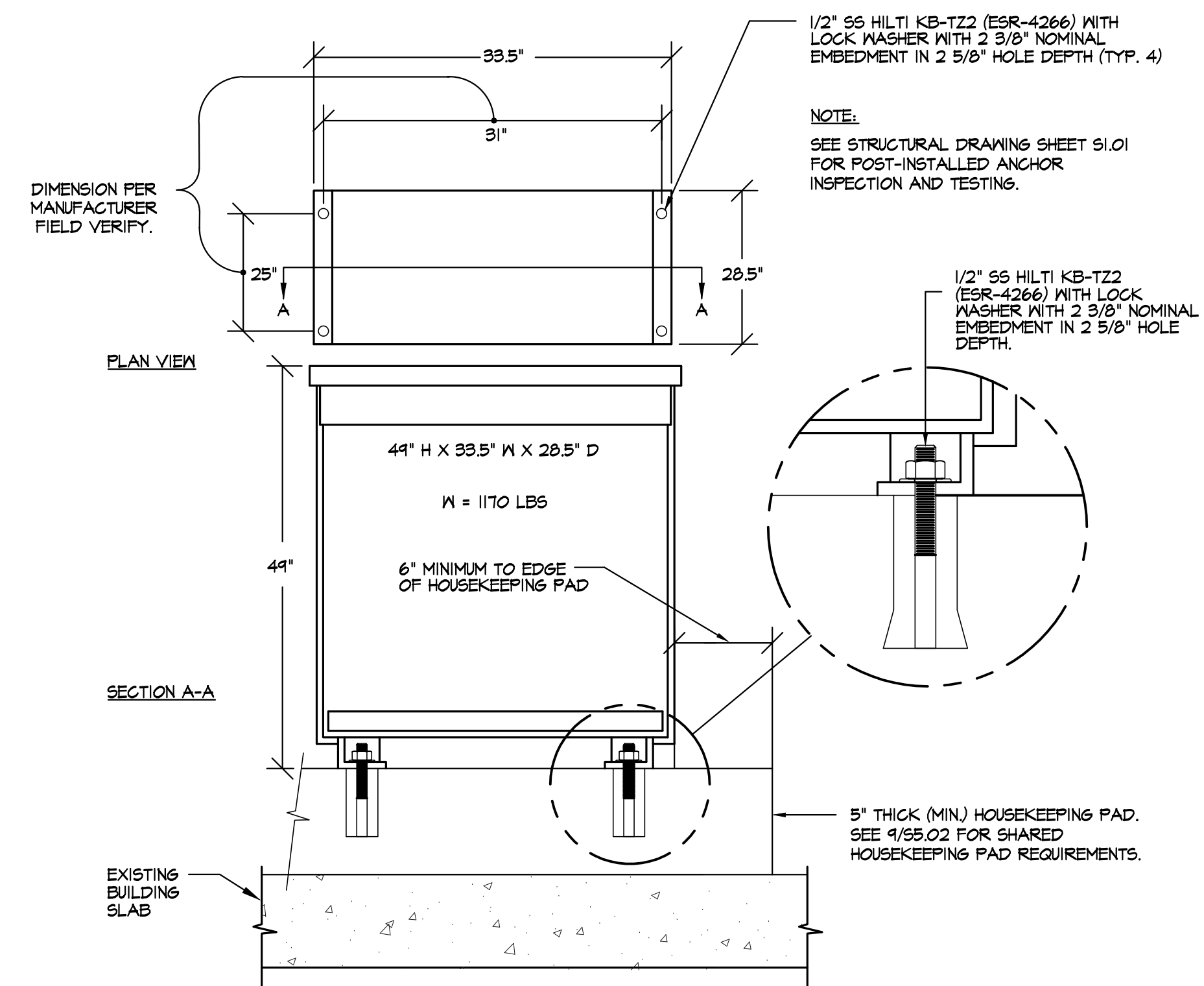
1 **NEMA 3R MAIN SWITCHBOARD ELEVATION AND ANCHORAGE DETAIL**
E5.3 NOT TO SCALE



2 **DISTRIBUTION TRANSFORMER INSTALLATION
DETAIL (225 KVA)**
E5.3 NOT TO SCALE



3 **DISTRIBUTION TRANSFORMER INSTALLATION
DETAIL (225 KVA)**
E5.3 NOT TO SCALE



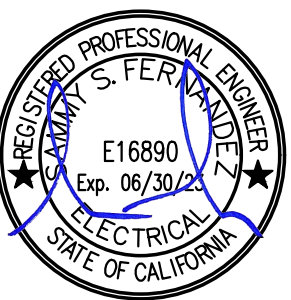
4 **DISTRIBUTION TRANSFORMER INSTALLATION
DETAIL (150 KVA)**
E5.3 NOT TO SCALE

PROJECT

NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT



**American Consulting Engineers
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APPL #

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REVISIONS

No. Description Date

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MILESTONES

DD

90% CD

DSA SUB

05/24/2021

BACKCHECK

10/22/2021

SHEET

**ELECTRICAL
DETAILS**

DATE

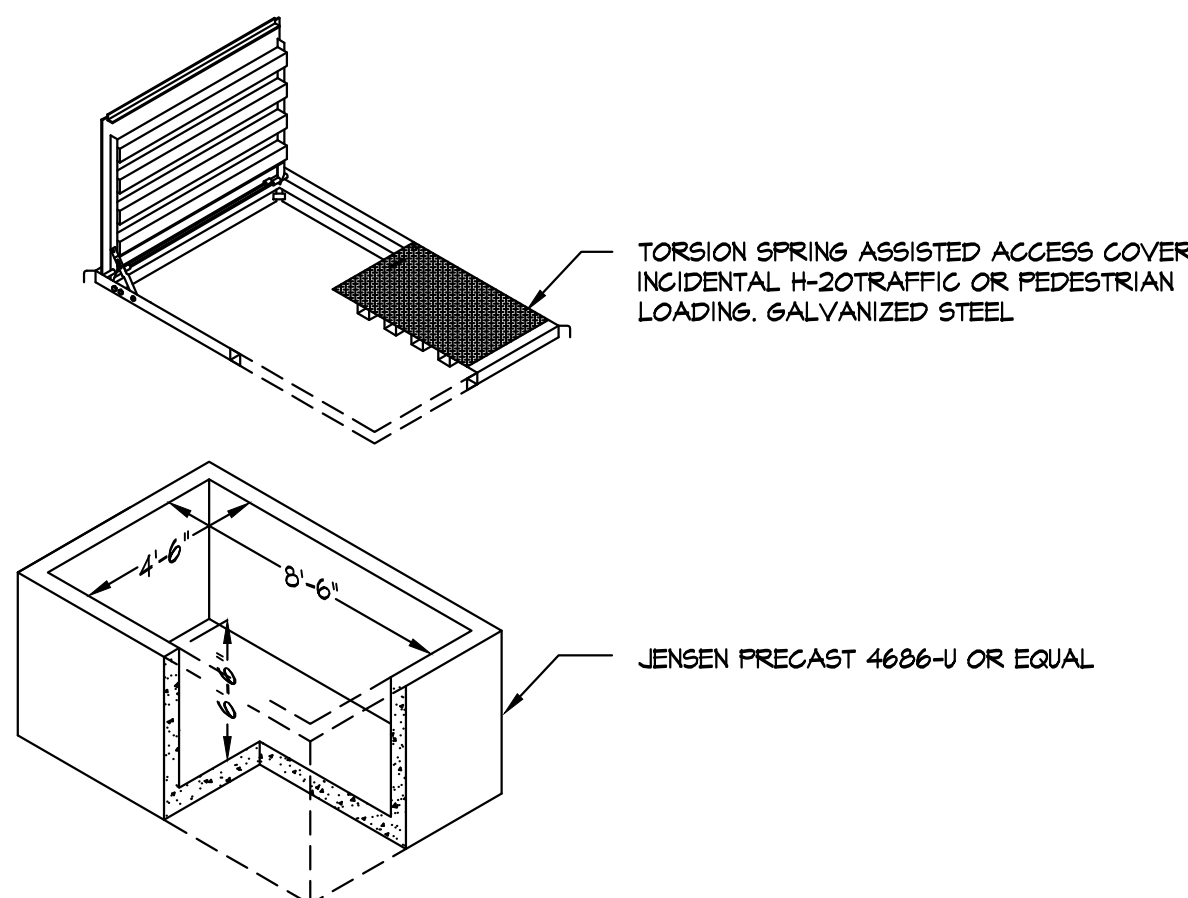
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JOB #

2021005.05

SHEET #

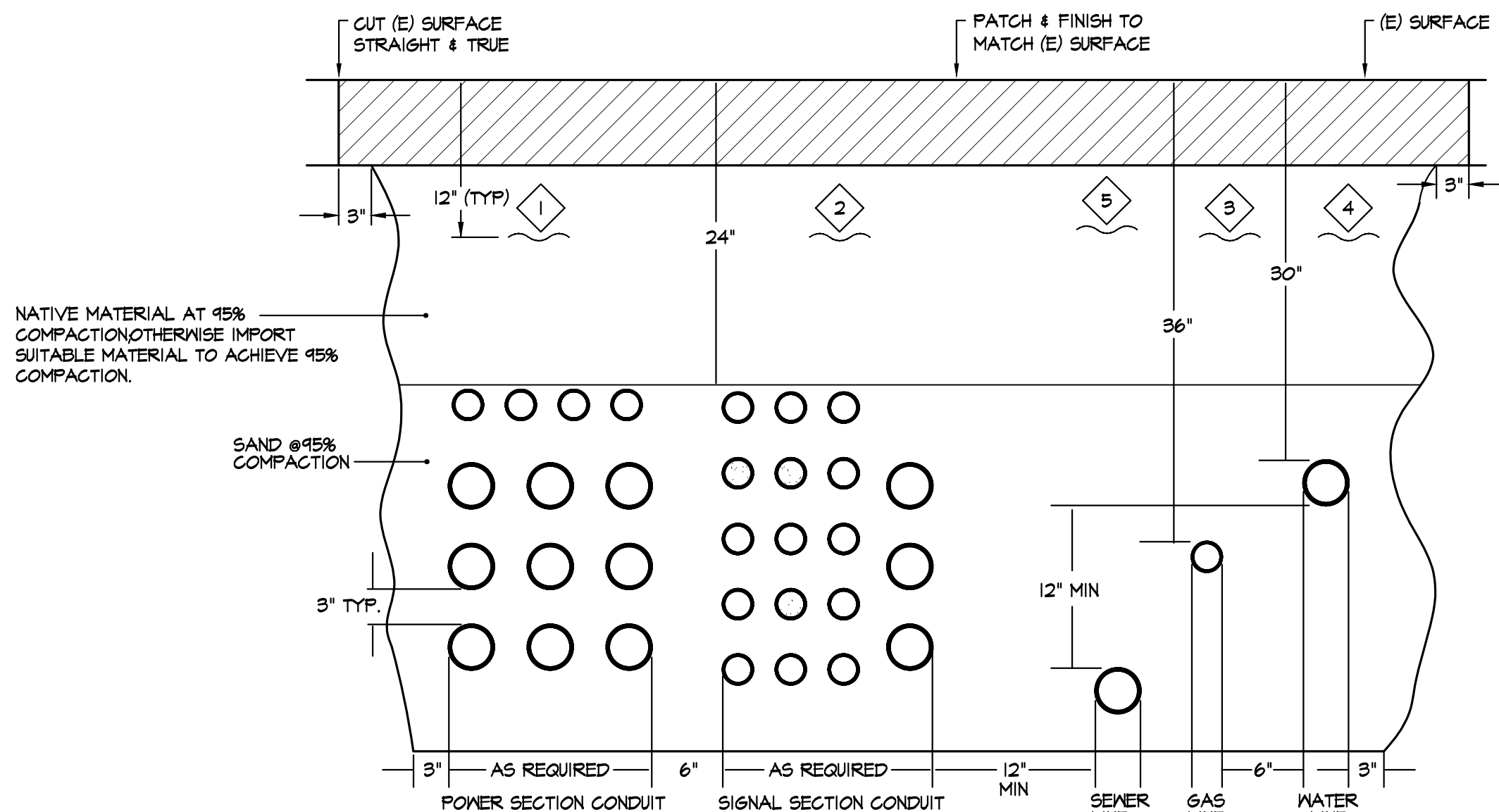
E5.4



NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE BASE WITH DRAIN. PROVIDE DRAIN ROCK.

2 4'6" x 8'6" ELECTRICAL VAULT
E5.4 NOT TO SCALE

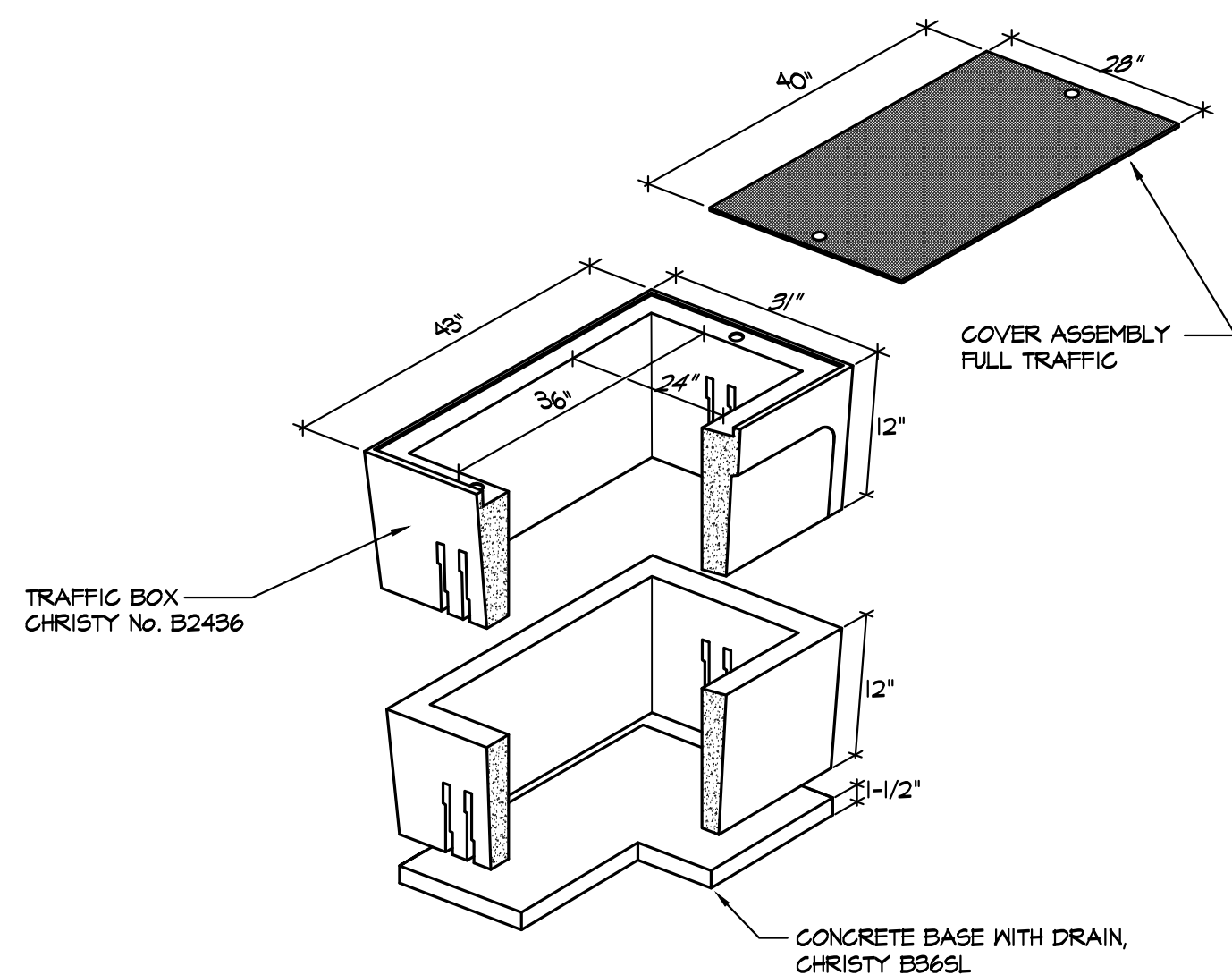


- 1 WARNING TAPE MARKED "POWER"
- 2 WARNING TAPE MARKED "SIGNAL"
- 3 WARNING TAPE MARKED "GAS"
- 4 WARNING TAPE MARKED "WATER"
- 5 WARNING TAPE MARKED "SEWER"

NOTES:

1. ALL ELECTRICAL TRENCH WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
2. MINIMUM SPACING BETWEEN CONDUITS IS 3".
3. SEE SITE/FLOOR PLANS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.
4. ALL UNDERGROUND CONDUITS TO BE IN CONFORMANCE WITH DETAIL 1/55.1

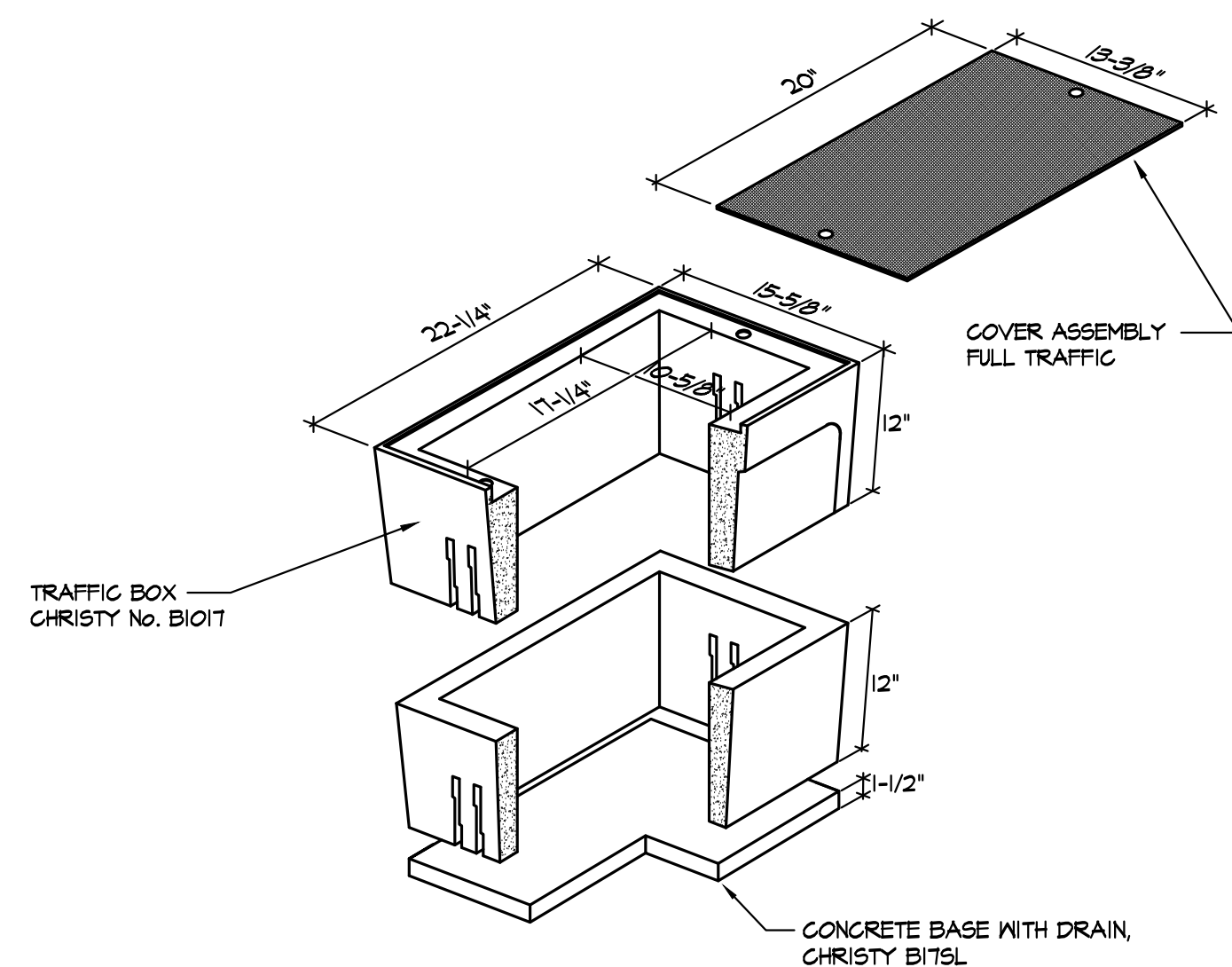
3 TYPICAL JOINT TRENCH & DUCT BANK DETAIL
E5.4 NOT TO SCALE



NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE BASE WITH DRAIN. PROVIDE DRAIN ROCK.

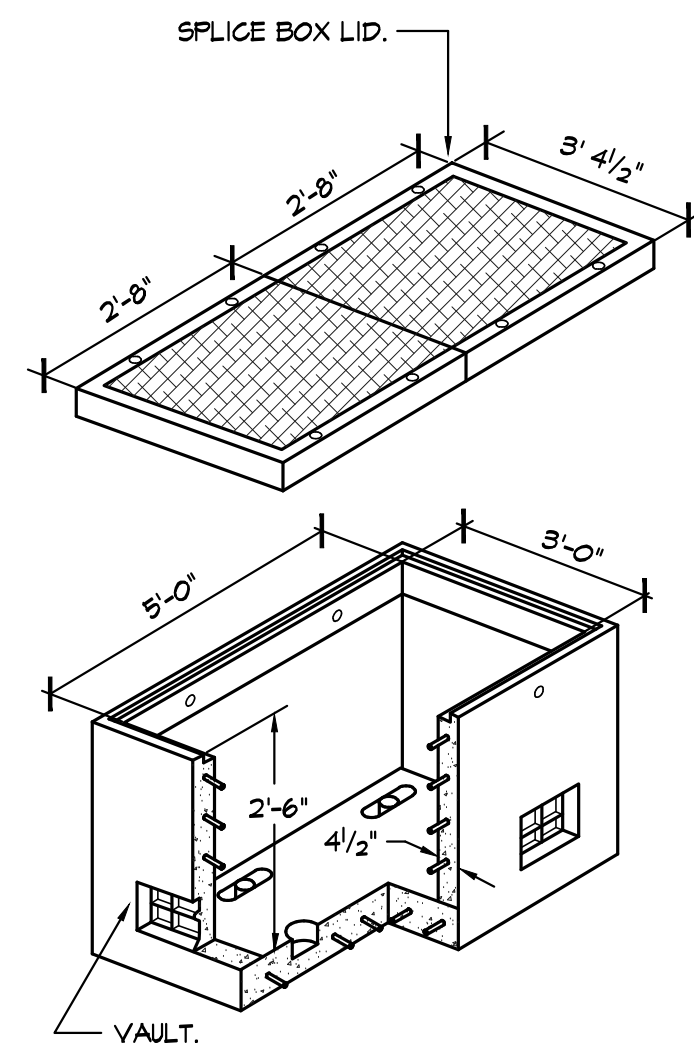
4 B2436 ELECTRICAL VAULT
E5.4 NOT TO SCALE (FULL TRAFFIC COVER)



NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE BASE WITH DRAIN. PROVIDE DRAIN ROCK.

5 B1017 ELECTRICAL VAULT
E5.4 NOT TO SCALE (FULL TRAFFIC COVER)



NOTE:
A HEAVY DUTY REINFORCED CONCRETE BOX WITH STANDARD KNOCKOUTS AND PULLING IRONS MADE IN CONFORMANCE WITH FIG.1E REQUIREMENTS.

6 PG&E 3' X 5' ELECTRICAL VAULT
E5.4 NOT TO SCALE