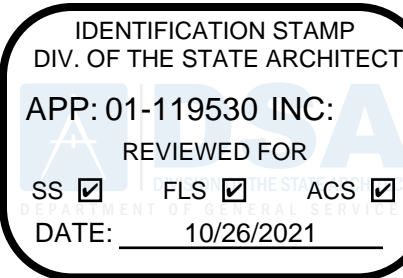


# COLLEGE PARK ELEMENTARY SCHOOL - HVAC REPLACEMENT

715A INDIAN AVENUE, SAN MATEO, CA, 94401

## SAN MATEO-FOSTER CITY SCHOOL DISTRICT CONSTRUCTION DOCUMENTS

DSA FILE NUMBER **41-26**  
DSA APPLICATION NUMBER **01-119530**  
PTN **69039-111**



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architects

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PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT

### ABBREVIATIONS

|             |                             |            |  |
|-------------|-----------------------------|------------|--|
| A           | AND                         | LAB        | LABORATORY                               |
| @           | AT                          | LAM.       | LAMINATE                                 |
| A.B.        | ANCHOR BOLT                 | LAV.       | LAVATORY                                 |
| ABV.        | ABOVE                       | LKR.       | LOCKER                                   |
| A.C.        | ASPHALTIC CONCRETE          | LT.        | LIGHT                                    |
| ACT         | ACUSTIC TILE                |            |  |
| 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                                      |
|             |                             | NORTH      | NORTH                                    |
| CAB.        | CATCH BASIN                 | N.I.C.     | NOT IN CONTRACT                          |
| C.B.        | CENTER TO CENTER            | NO. or #   | NUMBER                                   |
| CEM.        | CEMENT                      | NOM.       | NOMINAL                                  |
| CER.        | CERAMIC TILE                | N.T.S.     | NOT TO SCALE                             |
| 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                     |
| CLM.        | 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         | PLATE                                    |
| CONT.       | CONTRACTOR                  | P.L.       | PROPERTY LINE                            |
| CONTR.      | CONTRACTOR                  | P.LAM      | PLASTIC LAMINATE                         |
| CTR.        | CENTER                      | PLAS.      | PLASTER                                  |
| CTSK.       | COUNTER SUNK                | PLYWD.     | PLYWOOD                                  |
| C.W.        | COLD WATER                  | PAR        | PAIR                                     |
|             |                             | PTD.       | PAINTED                                  |
| D.A.        | DISABLED ACCESS             | PTN.       | PARTITION                                |
| DBL         | DOUBLE                      | Q.T.       | QUARRY TILE                              |
| D.F.        | DRINKING FOUNTAIN           | R. or RAD. | RADIUS                                   |
| D.F.R.      | DOUGLAS FIR                 | R.C.P.     | REINFORCED CONCRETE PIPE                 |
| DTL         | DETAIL                      | R.D.       | ROOF DRAIN                               |
| DIAM. or Ø  | DIAMETER                    | R.E.       | RIM ELEVATION                            |
| DIM.        | DIMENSION                   | REF.       | REFERENCE                                |
| DISP.       | DISPOSAL                    | REIN.      | REINFORCING                              |
| DN          | DOWN                        | RECD.      | REQUIRED                                 |
| DOT         | DOWN                        | R.H.M.S.   | ROUND HEAD METAL SCREW                   |
| DR.         | DOOR                        | R.H.W.S.   | ROUND HEAD WOOD SCREW                    |
| DWG.        | DRAWING                     | R.O.       | ROUGH OPENING                            |
|             |                             | RWD.       | REDWOOD                                  |
| (E)         | EXISTING                    | R.W.L.     | RAIN WATER LEADER                        |
| E.          | EAST                        |            |  |
| E.A.        | EACH                        | S.         | SOUTH                                    |
| E.J.        | EXPANSION JOINT             | S.A.D.     | SEE ARCHITECTURAL DRAWINGS               |
| ELEC.       | ELECTRIC or ELECTRICAL      | S.C.       | SOLID CORE                               |
| EL.         | ELEVATION                   | S.C.D.     | SEE CIVIL DRAWINGS                       |
| ELEV.       | ELEVATOR                    | SCHED.     | SCHEDULE                                 |
| ENCL.       | ENCLOSURE and/or ENCLOSURE  | S.E.D.     | SEE ELECTRICAL DRAWINGS                  |
| EQ.         | EQUAL                       | S.F.       | SQUARE FEET                              |
| EQUIP.      | EQUIPMENT                   | SHEATH.    | SHEATHING                                |
| E.W.        | EACH WAY                    | SHT.       | SHEET                                    |
| E.W.C.      | ELECTRIC WATER COOLER       | SIM.       | SIMILAR                                  |
| EX.         | EXPOSED                     | S.L.D.     | SEE LANDSCAPE DRAWINGS                   |
| EXT.        | EXTERIOR                    | S.M.       | SEE MECHANICAL DRAWINGS                  |
|             |                             | S.M.S.     | SHEET METAL SCREW                        |
| F.A.        | FIRE ALARM                  | S.O.V.     | SHUT OFF VALVE                           |
| F.D.        | FLOOR DRAIN                 | S.P.D.     | SEE PLUMBING DRAWINGS                    |
| FDM.        | FOUNDATION                  | SPEC.      | SPECIFICATIONS                           |
| F.E.        | FIRE EXTINGUISHER CABINET   | SQ. or Ø   | SQUARE                                   |
| F.H.        | FIRE HYDRANT                | S.S.       | STAINLESS STEEL                          |
| F.H.C.      | FIRE HOSE CABINET           | S.S.D.     | SEE STRUCTURAL DRAWINGS                  |
| F.H.S.M.S.  | FLAT HEAD SHEET METAL SCREW | STAG.      | STAGGERED                                |
| F.H.W.S.    | FLAT HEAD WOOD SCREW        | STD.       | STANDARD                                 |
| FIN.        | FINISH                      | STL.       | STEEL                                    |
| FL. or FLR. | FLOOR                       | STOR.      | STORAGE                                  |
| F.O.C.      | FACE OF CONCRETE            | STRUCT.    | STRUCTURAL                               |
| F.O.F.      | FACE OF FINISH              | S.T.S.M.S. | SELF TAPPING SHEET METAL SCREW           |
| F.O.M.      | FACE OF MASONRY             | SUSP.      | SUSPENDED                                |
| F.O.S.      | FACE OF STUD                |            |  |
| F.S.        | FINISH SLAB                 | T.A.G.     | TONGUE & GROOVE                          |
| FT.         | FOOT OR FEET                | TEL.       | TELEPHONE                                |
| FTG.        | FOOTING                     | TERR.      | TERRAZZO                                 |
| FURR.       | FURRING                     | THRES.     | THRESHOLD                                |
|             |                             | T.J.       | TOOLED JOINT                             |
| GA.         | GAUGE                       | T.O.B.     | TOP OF BEAM                              |
| GALV.       | GALVANIZED                  | T.O.C.     | TOP OF CURB or CONCRETE                  |
| GB.         | GRAB BAR                    | T.O.S.     | TOP OF STEEL or SLAB                     |
| GL.         | GALVANIZED IRON             | T.O.W.     | TOP OF WALL                              |
| GLU-LAM     | GLUE LAMINATED              | TYP.       | TYPICAL                                  |
| GND.        | GROUND                      | U.O.N.     | UNLESS OTHERWISE NOTED                   |
| GRADE       | GRADE                       |            |  |
| GYP.        | GYPSUM                      | VERT.      | VERTICAL                                 |
|             |                             | V.C.P.     | VERTICAL CLAY PIPE                       |
| H.B.        | HOLE BIBB                   | V.C.T.     | VINYL COMPOSITION TILE                   |
| H.C.        | HARDWOOD                    | V.G.       | VERTICAL GRAIN                           |
| HOWR.       | HOLLOW CORE                 | V.I.F.     | VERIFY IN FIELD                          |
| H.M.        | HOLLOW METAL                | V.T.R.     | VENT THROUGH ROOF                        |
| HORIZ.      | HORIZONTAL                  | V.W.C.     | VINYL WALL COVERING                      |
| HOL.        | HOLE                        |            |  |
| HT.         | HEIGHT                      | W          | WEST                                     |
|             |                             | WTH        | WITH                                     |
| I.D.        | INSIDE DIAMETER             | W.C.       | WATER CLOSET                             |
| INSUL.      | INSULATION                  | WO.        | WOOD                                     |
| INT.        | INTERIOR                    | W.H.       | WATER HEATER                             |
| INV.        | INVERT                      | WO.        | WITHOUT                                  |
|             |                             | W/O.       | WITHOUT OCCURS                           |
| JAN.        | JANITOR                     | WP.        | WATERPROOF / WEATHERPROOF                |
| JT.         | JOINT                       | W. PT.     | WORKING POINT                            |
|             |                             | W.R.       | WATER RESISTANT                          |
| K.D.        | KILN DRIED                  | WT.        | WEIGHT                                   |

### BOARD OF TRUSTEES

KENNETH CHIN (PRESIDENT)  
ALISON PROCTOR (VICE PRESIDENT)  
SHARA WATKINS (CLERK)  
NOELIA CORZO (MEMBER)  
LISA WARREN (MEMBER)

### DISTRICT SUPERINTENDANT

DR. JOAN ROSAS

### CONSULTANTS

#### MECHANICAL

CYPRESS ENGINEERING GROUP  
8 HARRIS COURT, SUITE A8  
MONTEREY, CA 93940  
(831) 218-1802

#### ELECTRICAL

AMERICAN CONSULTING ENGINEERS ELECTRICAL, INC.  
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(d). 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 4-336 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 A 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 FLOR PLAN SHEETS AND CONSULTANT DRAWINGS FOR ADDITIONAL SYMBOLS AND REFERENCE DESIGNATIONS

#### DIMENSION REFERENCE

FACE OF OBJECT

CENTER LINE OF OBJECT

#### TAGS AND MARKERS

0

PLAN REFERENCE GRID

1

STRUCTURAL GRID LINE

1

REVISION MARKER

1

PLAN KEY NOTES

101

ROOM LABEL

ROOM NAME

ROOM NUMBER

1

WALL TYPE MARKER

101

DOOR ID

DOOR DESIGNATION

ROOM NUMBER

1

CENTER LINE

XX-1

FINISH TAG

XX-1

FLOOR FINISH TAG

#### MATERIALS REFERENCE

EARTH

GRAVEL / ROCK

CONCRETE

CONCRETE BLOCK (CMU)

SAND, GROUT, OR PLASTER

STEEL

PLYWOOD

WOOD, CONTINUOUS MEMBER

WOOD, BLOCKING

WOOD, FINISH GRADE

#### CABINET TYPES

PC

PM

PR

PU

PS

SCIENCE CABINETS

NOTE: REFER TO SPECIFICATIONS FOR SPECIFIC CABINET TYPE REQUIREMENTS.

#### SECTION REFERENCE

SECTION NUMBER

REFERENCE LABEL WHERE OCCURS

SHEET NUMBER

#### DETAIL REFERENCE

DETAIL NUMBER

REFERENCE LABEL WHERE OCCURS

SHEET NUMBER

### DEFERRED APPROVAL ITEMS

- NONE

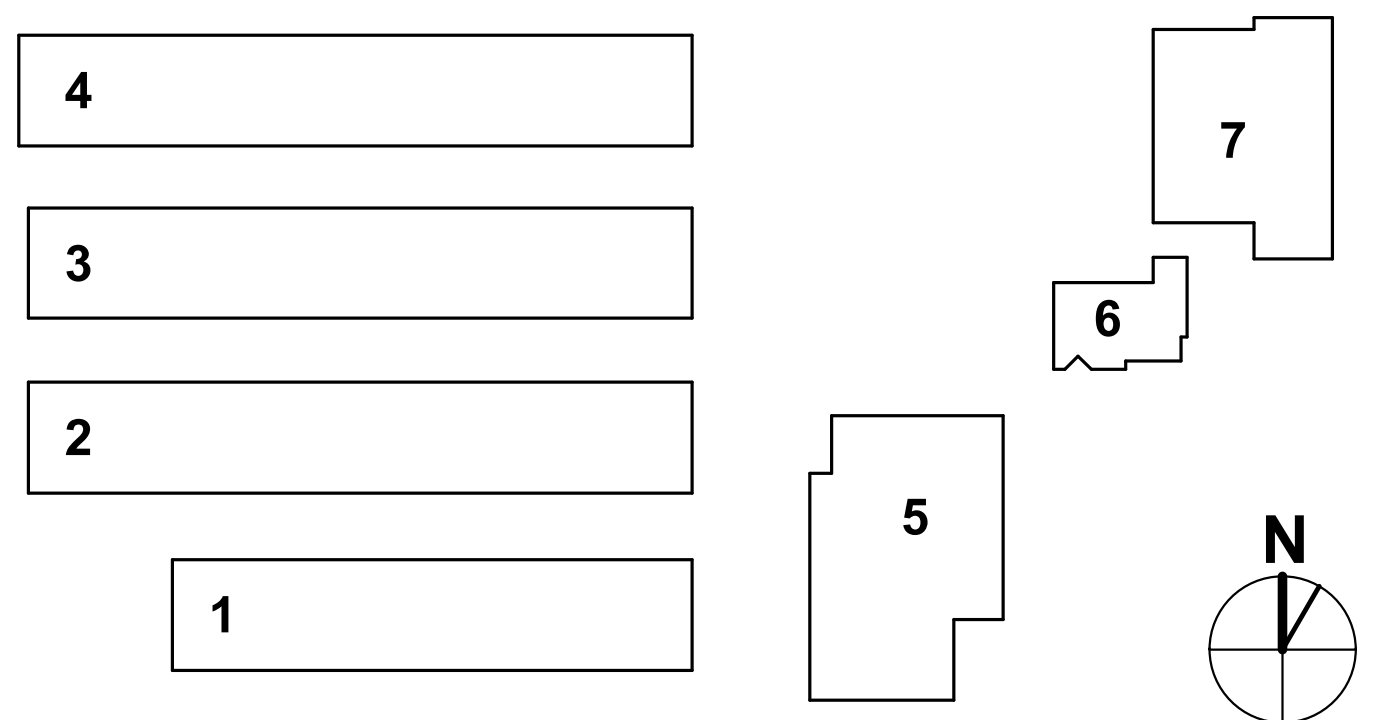
#### LOCATION MAP



### 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

T1 TITLE SHEET

#### ARCHITECTURAL

- A1.02 SITE PLAN
- A2.01 DEMOLITION FLOOR PLANS - WINGS 2, 3, & 4
- A3.01 NEW FLOOR PLANS - WINGS 2, 3, & 4
- A4.01 TYPICAL NEW REFLECTED CEILING PLAN
- A5.01 PARTIAL SITE ROOF PLAN
- A8.10 EXTERIOR DETAILS
- A9.10 INTERIOR ELEVATIONS & DETAILS
- A11.01 FINISH SCHEDULE, CASEWORK SCHEDULE, & OPENING SCHEDULE, LEGENDS, & DETAILS

#### STRUCTURAL

- S1.01 ABBREVIATIONS AND GENERAL NOTES
- S2.01 EXISTING FRAMING PLANS - WINGS 2, 3, & 4
- S5.01 TYPICAL CONCRETE DETAILS
- S5.02 TYPICAL CONCRETE DETAILS
- S8.01 FRAMING DETAILS & NAILING SCHEDULE

#### MECHANICAL

- MP0.01 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL
- MP0.02 SCHEDULES - MECHANICAL
- MP2.01 FLOOR PLAN - DEMO - WING 2, 3, AND 4 - MECHANICAL
- MP2.03 FLOOR PLAN - NEW - WINGS 2, 3, & 4 - MECHANICAL
- MP5.01 CONTROLS - MECHANICAL
- MP6.01 DETAILS - MECHANICAL & PLUMBING
- MP8.01 TITLE 24 DOCUMENTS - MECHANICAL
- MP8.02 TITLE 24 DOCUMENTS - MECHANICAL

#### ELECTRICAL

- E0.1 ELECTRICAL COVER SHEET
- E1.1 ELECTRICAL SITE PLAN
- E2.1 ELECTRICAL DEMO FLOOR PLANS - WINGS #1, #2, #3 & #4
- E3.1 ELECTRICAL NEW FLOOR PLANS - WINGS #1, #2, #3 & #4
- E4.1 DEMO SINGLE LINE DIAGRAM
- E4.2 NEW SINGLE LINE DIAGRAM
- E4.3 PANEL SCHEDULES
- E5.1 ELECTRICAL DETAILS
- E5.2 ELECTRICAL DETAILS
- E5.3 ELECTRICAL DETAILS
- E5.4 ELECTRICAL DETAILS

TOTAL SHEET COUNT: 33

\* 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 10/08/2021  
PRINCIPAL IN CHARGE  
C-018127  
CALIFORNIA LICENSE NUMBER  
10/08/2021  
DATE -  
11/30/21  
EXPIRATION DATE

DATE 10/08/2021  
JOB # 2021005.01  
SHEET #

T1



PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER 41-26  
APPL # 01-119530

REVISIONS

| No. | Description | Date |
|-----|-------------|------|
|-----|-------------|------|



MILESTONES

|           |            |
|-----------|------------|
| DD        |            |
| 90% CD    |            |
| DSA SUB   | 05/26/2021 |
| BACKCHECK | 10/08/2021 |

SHEET

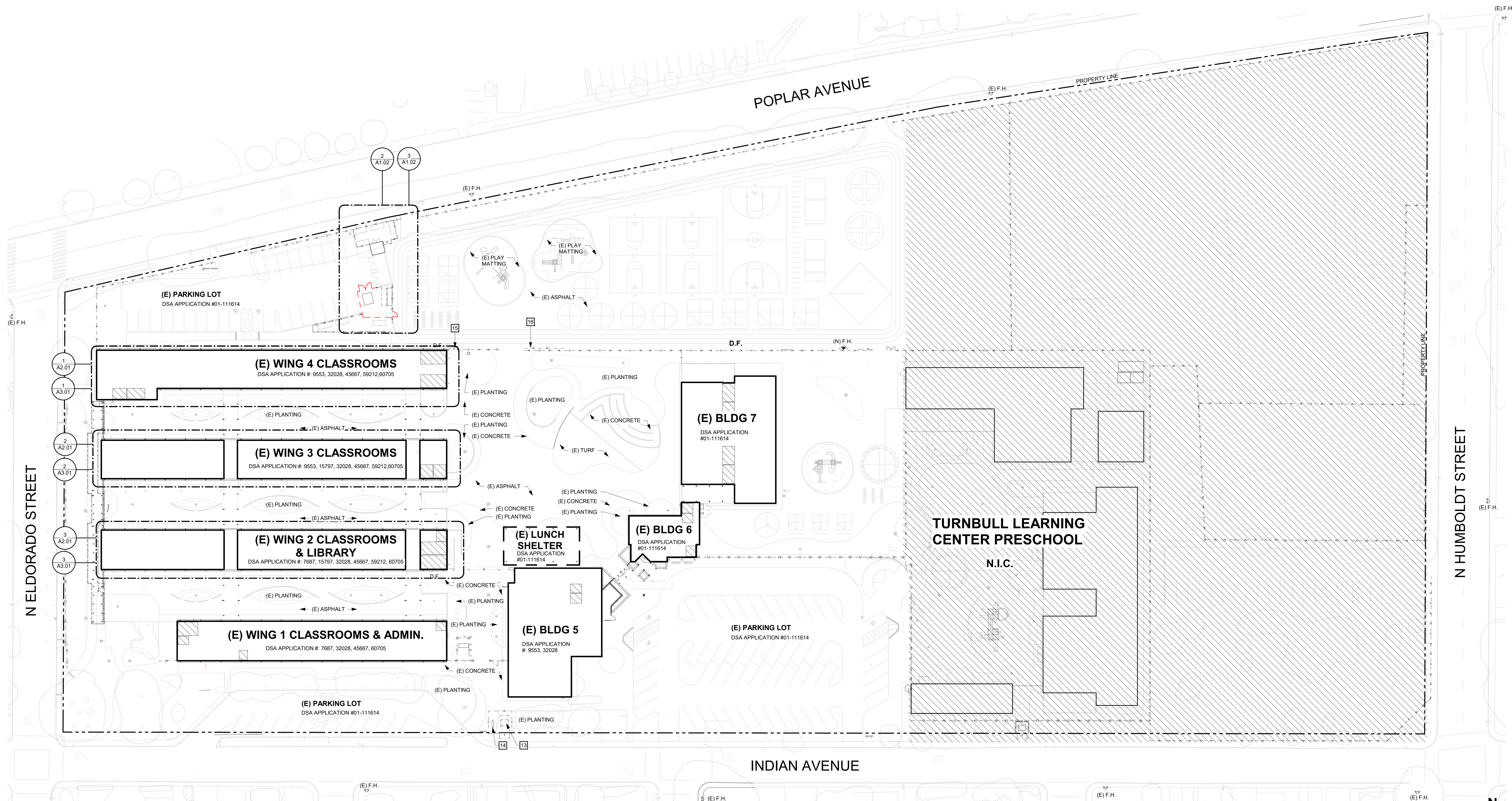
SITE PLAN

DATE 10/08/2021

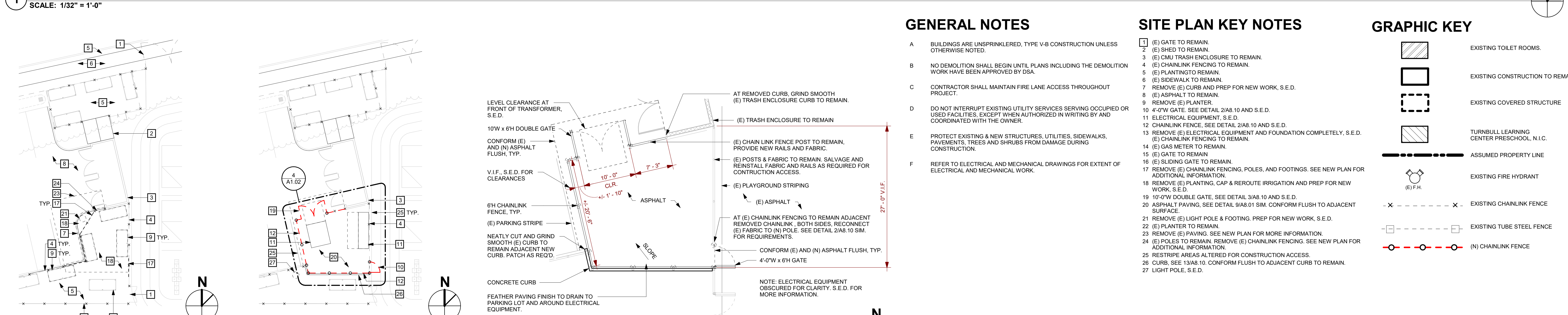
JOB # 2021005.01

SHEET #

A1.02



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



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

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

4 ELECTRICAL ENCLOSURE ENLARGED LAYOUT  
SCALE: 1/8" = 1'-0"

GENERAL 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.

SITE PLAN KEY NOTES

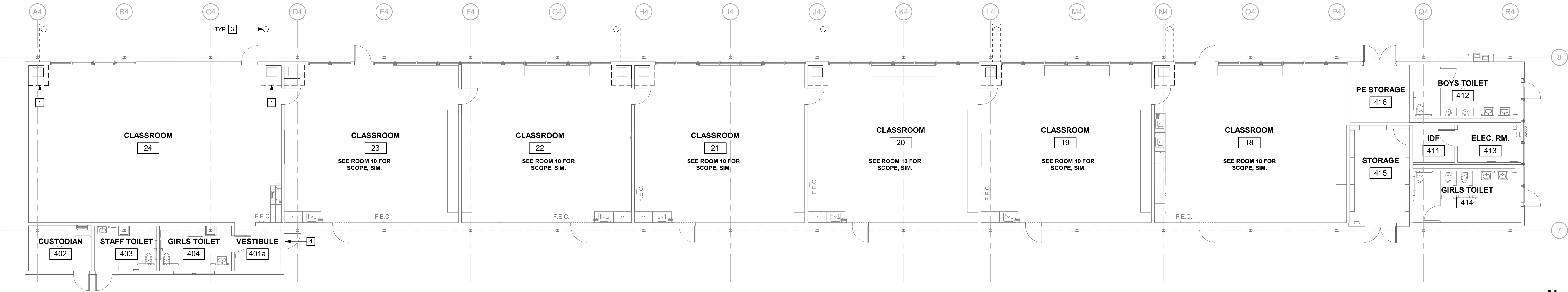
- 1 (E) GATE TO REMAIN.
- 2 (E) SHED TO REMAIN.
- 3 (E) CMU TRASH ENCLOSURE TO REMAIN.
- 4 (E) CHAINLINK FENCING TO REMAIN.
- 5 (E) PLANTING TO REMAIN.
- 6 (E) SIDEWALK TO REMAIN.
- 7 REMOVE (E) CURB AND PREP FOR NEW WORK, S.E.D.
- 8 (E) ASPHALT TO REMAIN.
- 9 REMOVE (E) PLANTER.
- 10 4'-0" W GATE. SEE DETAIL 2/A8.10 AND S.E.D.
- 11 ELECTRICAL EQUIPMENT, S.E.D.
- 12 CHAINLINK FENCE, SEE DETAIL 2/A8.10 AND S.E.D.
- 13 REMOVE (E) ELECTRICAL EQUIPMENT AND FOUNDATION COMPLETELY, S.E.D.
- 14 (E) CHAINLINK FENCING TO REMAIN.
- 15 (E) GAS METER TO REMAIN.
- 16 (E) GATE TO REMAIN.
- 17 REMOVE (E) SLIDING GATE TO REMAIN.
- 18 REMOVE (E) CHAINLINK FENCING, POLES, AND FOOTINGS. SEE NEW PLAN FOR ADDITIONAL INFORMATION.
- 19 REMOVE (E) PLANTING, CAP & REROUTE IRRIGATION AND PREP FOR NEW WORK, S.E.D.
- 20 ASPHALT PAVING, SEE DETAIL 9/A8.01 SIM. CONFORM FLUSH TO ADJACENT SURFACE.
- 21 REMOVE (E) LIGHT POLE & FOOTING. PREP FOR NEW WORK, S.E.D.
- 22 (E) PLANTER TO REMAIN.
- 23 REMOVE (E) PAVING. SEE NEW PLAN FOR MORE INFORMATION.
- 24 (E) POLES TO REMAIN. REMOVE (E) CHAINLINK FENCING. SEE NEW PLAN FOR ADDITIONAL INFORMATION.
- 25 RESTRIPE AREAS ALTERED FOR CONSTRUCTION ACCESS.
- 26 CURB, SEE 13/A8.10. CONFORM FLUSH TO ADJACENT CURB TO REMAIN.
- 27 LIGHT POLE, S.E.D.

GRAPHIC KEY

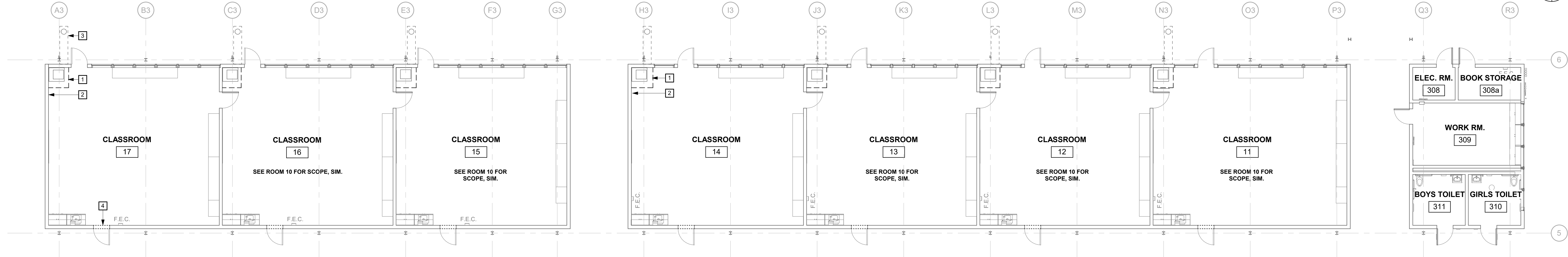
- EXISTING TOILET ROOMS.
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING COVERED STRUCTURE
- TURNBULL LEARNING CENTER PRESCHOOL, N.I.C.
- ASSUMED PROPERTY LINE
- EXISTING FIRE HYDRANT
- EXISTING CHAINLINK FENCE
- EXISTING TUBE STEEL FENCE
- (N) CHAINLINK FENCE



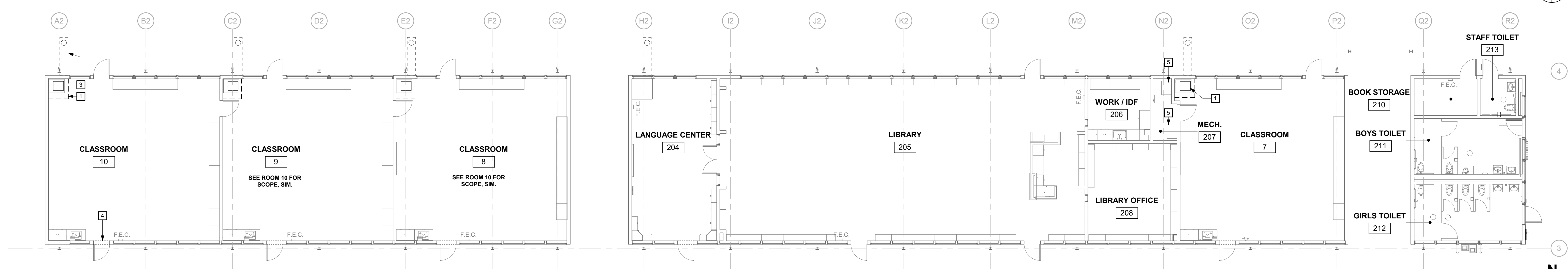
10/12/2021 2:03:22 PM C:\Users\kbailey\Documents\2021005.01\_College Park ES - HVAC Replacement\_Central (2019 version)\_kbailey\KFP JP.rvt



1 DEMOLITION FLOOR PLAN - WING 4  
SCALE: 1/8" = 1'-0"



2 DEMOLITION FLOOR PLAN - WING 3  
SCALE: 1/8" = 1'-0"



3 DEMOLITION FLOOR PLAN - WING 2  
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 MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF 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.
- I DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.

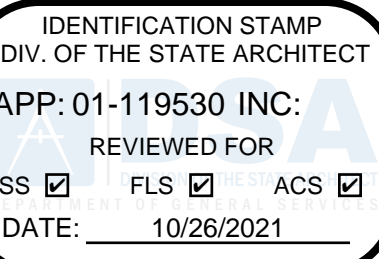
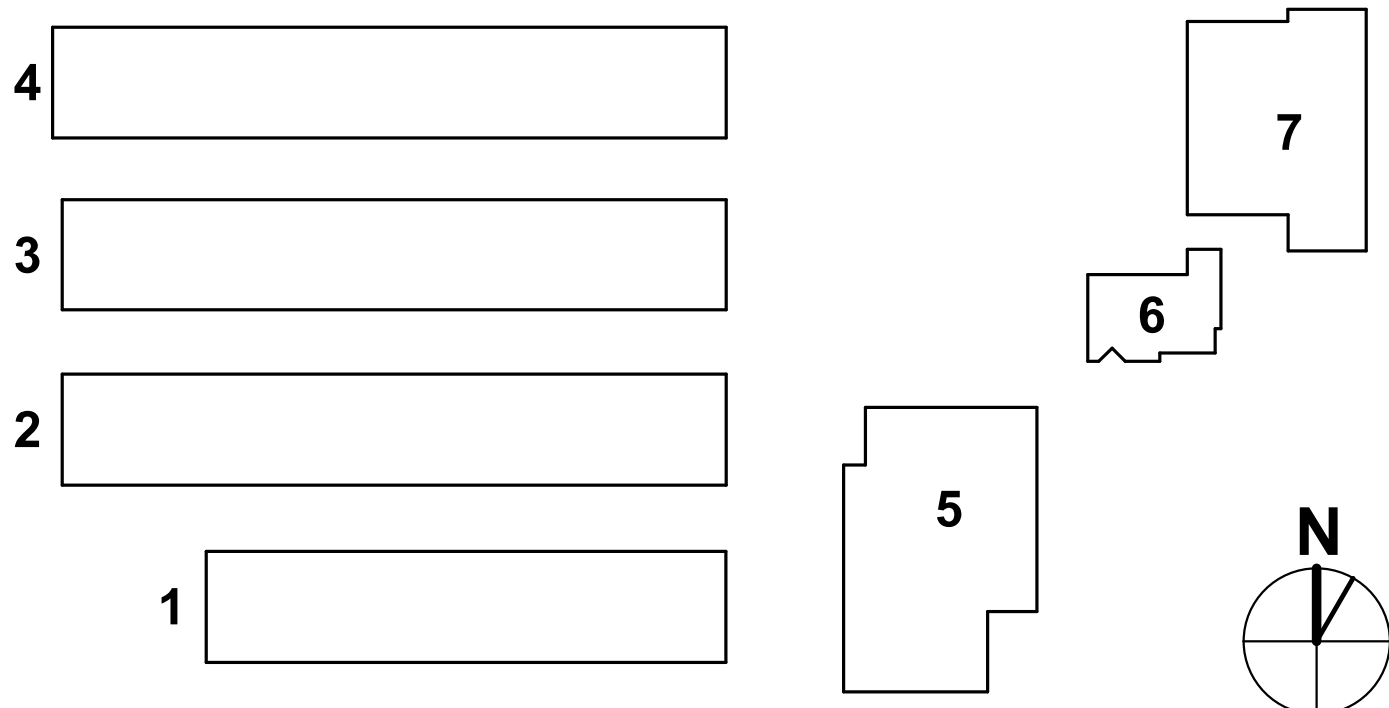
### DEMOLITION FLOOR PLAN KEYNOTES

- 1 REMOVE (E) MECHANICAL UNIT AND ENCLOSURE. (E) DUCTWORK TO BE REUSED. S.M.D.
- 2 RECONFIGURE (E) WIREMOLD. SHORTEN CONFIGURATION TIGHT TO NEW ENCLOSURE AND PROVIDE END CAP. SEE NEW FLOOR PLAN FOR MORE INFORMATION.
- 3 (E) DRYWELL TO REMAIN. S.M.D.
- 4 REMOVE (E) WINDOW GLAZING ABOVE AND PREP FOR NEW WORK. S.M.D.
- 5 REMOVE (E) MECHANICAL EQUIPMENT. S.M.D.

### GRAPHIC KEY

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

### BUILDING KEY



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PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER

41-26

APPL #

01-119530

REVISIONS

No. Description Date

△

MILESTONES

DD

90% CD

DSA SUB

05/26/2021

BACKCHECK

10/08/2021

SHEET

DEMOLITION  
FLOOR PLANS -  
WINGS 2, 3, & 4

DATE

10/08/2021

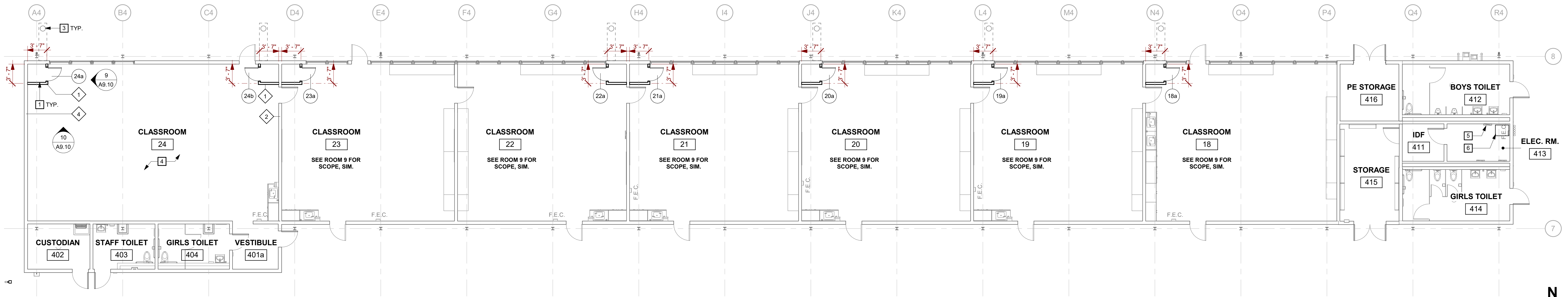
JOB #

2021005.01

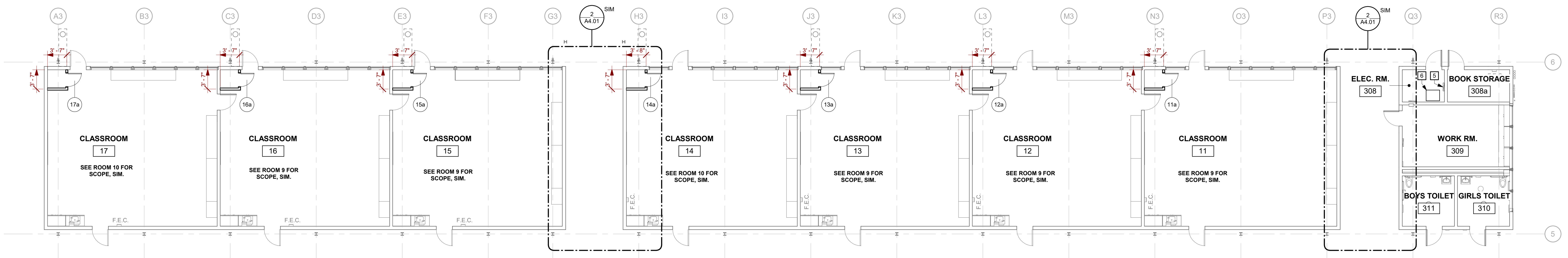
SHEET #

A2.01

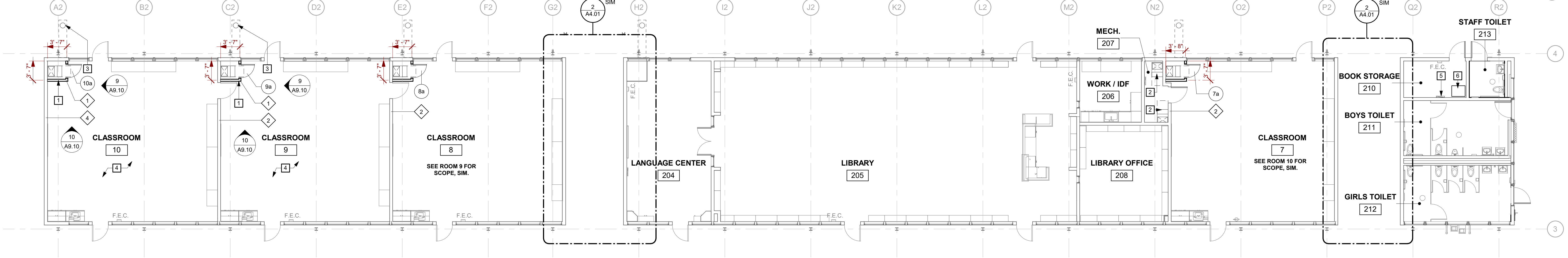




1 NEW FLOOR PLAN - WING 4  
SCALE: 1/8" = 1'-0"



2 NEW FLOOR PLAN - WING 3  
SCALE: 1/8" = 1'-0"



3 NEW FLOOR PLAN - WING 2  
SCALE: 1/8" = 1'-0"

### GENERAL SHEET NOTES

- A REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL WORK.
- B DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.
- C REMOVE AND REPLACE (E) WALL BASE AS REQUIRED FOR NEW CONSTRUCTION. PROVIDE NEW WALL BASE AT ALL REMOVED CASEWORK, NEW PARTITION WALLS, OR PATCHED FLOORING.
- D RECONFIGURE A.C.T. GRID TIGHT TO NEW MECHANICAL ENCLOSURE WALL FINISH. PROVIDE NEW LAY IN CEILING TILES AT RECONFIGURED AREA. AREA CUT OR ALTERED IN EACH ROOM SHALL NOT EXCEED 10 PERCENT OF THE ENTIRE CEILING AREA.
- E PATCH AND PAINT WALL AT REMOVED CASEWORK, REMOVED WALL MOUNTED BOARDS, OR RECONFIGURED RACEWAY.
- F SCRIBE FINISHES TIGHT TO ADJACENT CONDITIONS INCLUDING BUT NOT LIMITED TO WALL FINISHES, WINDOWS, CURTAIN RAILS, AND DUCTWORK.

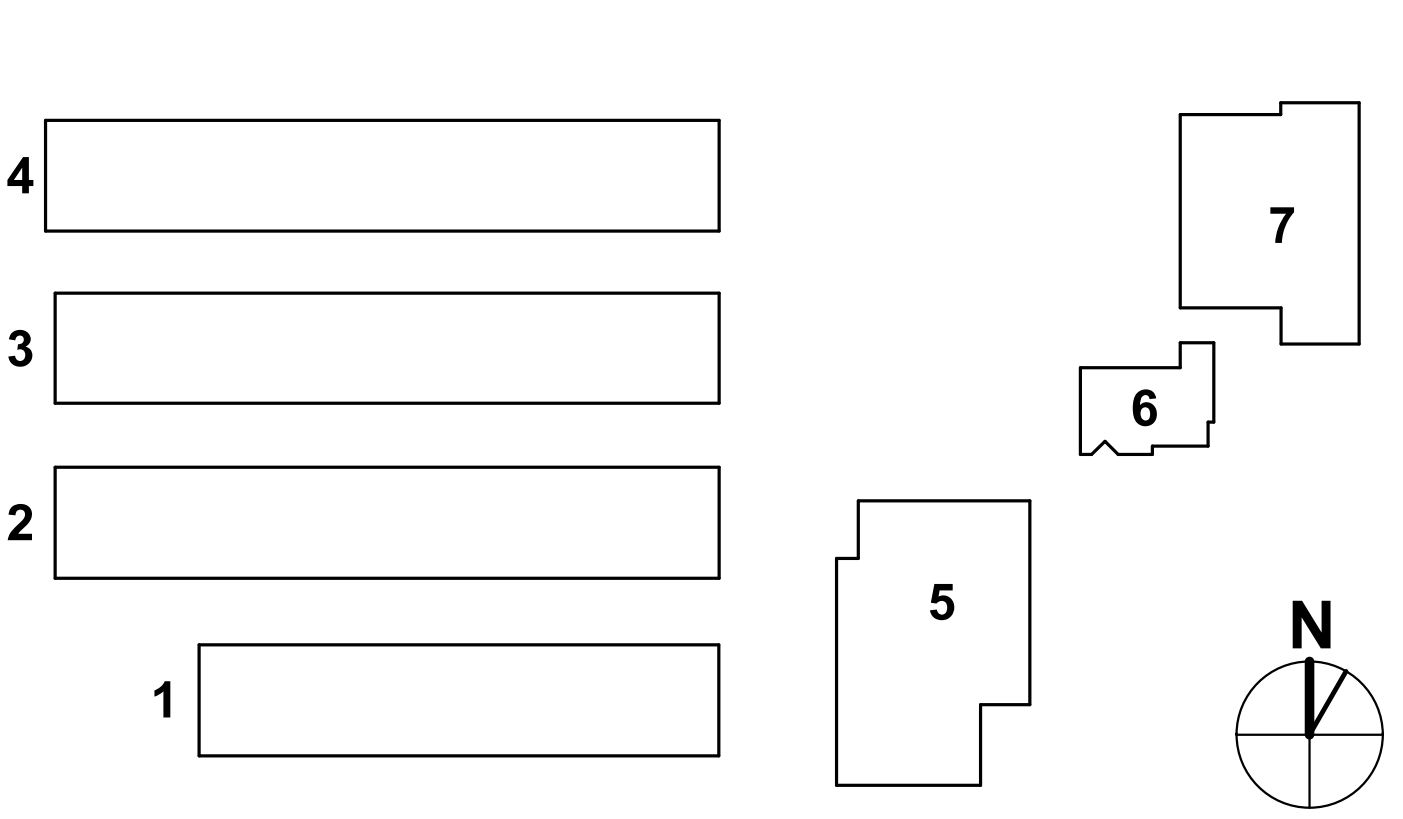
### NEW FLOOR PLAN KEY NOTES

- 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. RECONFIGURE A.C.T. GRID AND REPLACE ACOUSTICAL TILES. V.I.F. FREE AND FIXED END OF GRID AND REPLACE IN KIND. SEE DETAILS 8/A9.10, 11/A9.10, & 12/A9.10.
- 2 MECHANICAL UNIT, S.M.D.
- 3 (E) DRYWELL TO REMAIN, S.M.D.
- 4 REFER TO 1/A4.01 FOR TYPICAL REFLECTED CEILING PLAN.
- 5 ELECTRICAL PANEL, PROVIDE BACKING, S.E.D.
- 6 TRANSFORMER, S.E.D.

### GRAPHIC KEY

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

### BUILDING KEY

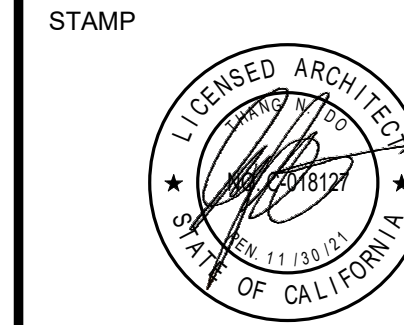


IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 01-119530 INC.  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 10/26/2021

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architects  
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PROJECT  
COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT  
CONSULTANT



STATE  
DSA FILE NUMBER 41-26  
APPL # 01-119530

REVISIONS  
No. Description Date

MILESTONES  
DD  
90% CD  
DSA SUB 05/26/2021  
BACKCHECK 10/08/2021

SHEET  
NEW FLOOR  
PLANS - WINGS  
2, 3, & 4

DATE 10/08/2021  
JOB # 2021005.01  
SHEET #  
A3.01



GENERAL SHEET NOTES

- A

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL WORK.
- B

REFER TO FINISH SCHEDULE ON SHEET A11.01 FOR CEILING FINISHES NOT SHOWN.
- C

RECONFIGURE A.C.T. GRID TIGHT TO NEW MECHANICAL ENCLOSURE WALL FINISH. PROVIDE NEW LAY IN CEILING TILES AT RECONFIGURED AREA. AREA CUT OR ALTERED IN EACH ROOM SHALL NOT EXCEED 10 PERCENT OF THE ENTIRE CEILING AREA.
- D

SCRIBE FINISHES TIGHT TO ADJACENT CONDITIONS INCLUDING BUT NOT LIMITED TO WALL FINISHES, WINDOWS, CURTAIN RAILS, AND DUCTWORK.
- E

PROVIDE NEW CEILING TILE MATCHING ADJACENT TILES WHERE EXISTING LIGHTS, SPEAKERS OR OTHER EQUIPMENT WERE REMOVED.

IDENTIFICATION STAMP  
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NEW REFLECTED CEILING PLAN KEYNOTES

- 1

DUCTWORK OBSCURED FOR CLARITY. S.M.D.
- 2

REPLACE PERIMETER TRIM AND PROVIDE NEW CEILING TILE ADJACENT. REPLACE FREE AND FIXED ENDS IN KIND. SEE DETAILS 8/A9.10, 11/A9.10, & 12/A9.10.
- 3

(E) RIDGE
- 4

(E) PAINTED SHEET METAL CONDUIT ENCLOSURE TO REMAIN.
- 5

PAINTED 18 GA. SHEET METAL CONDUIT ENCLOSURE. SEE DETAIL 20/A8.10 AND S.E.D.
- 6

S.E.D. FOR CONDUIT PENETRATION DETAIL.
- 7

(E) WOOD FINISH.

PROJECT

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REVISIONS

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|-----|-------------|------|



MILESTONES

|           |            |
|-----------|------------|
| DD        |            |
| 90% CD    |            |
| DSA SUB   | 05/26/2021 |
| BACKCHECK | 10/08/2021 |

SHEET

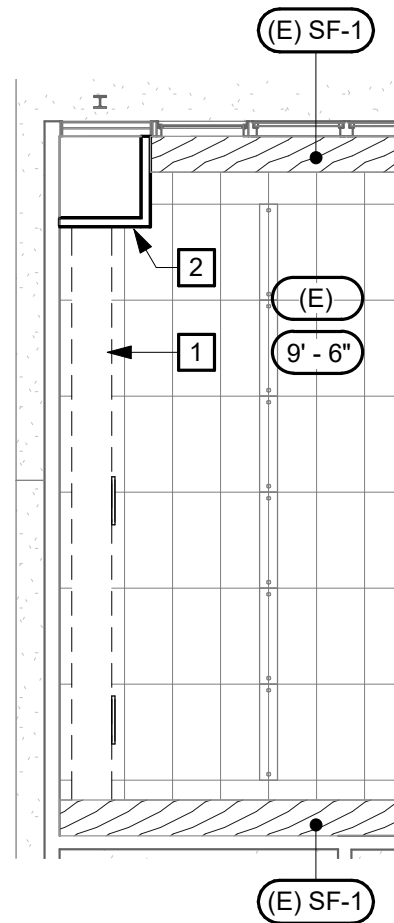
TYPICAL NEW  
REFLECTED  
CEILING PLAN

DATE 10/08/2021

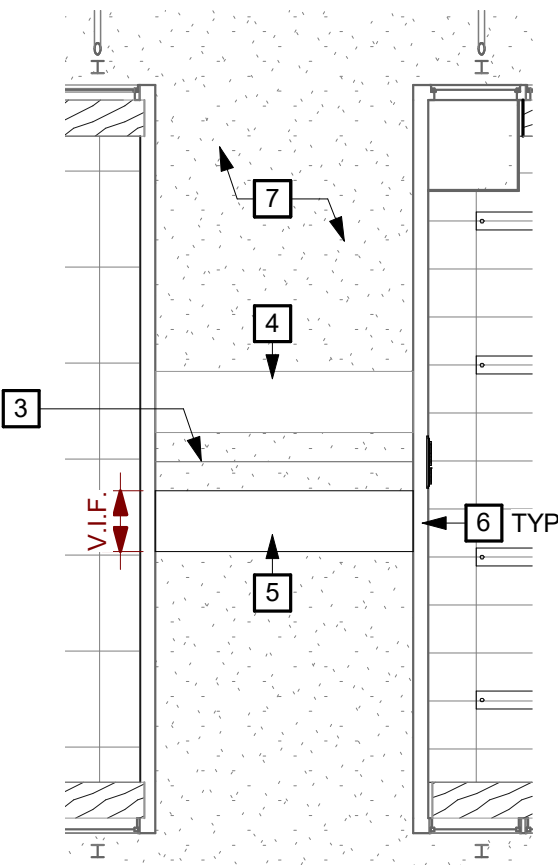
JOB # 2021005.01

SHEET #

A4.01



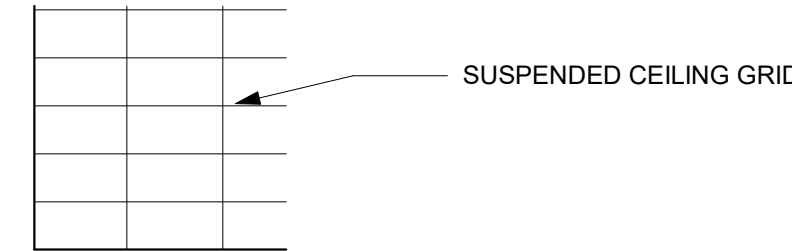
1 TYPICAL NEW REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"



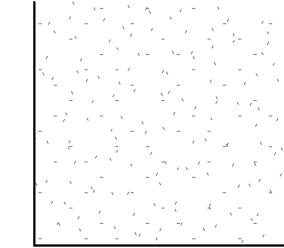
2 TYPICAL WALKWAY REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"

GRAPHIC KEY

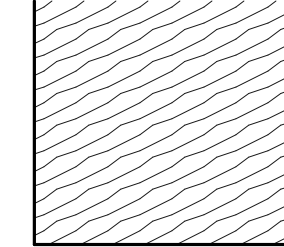
(E) 2'-0" x 4'-0" A.C.T. SUSPENDED CEILING SYSTEM



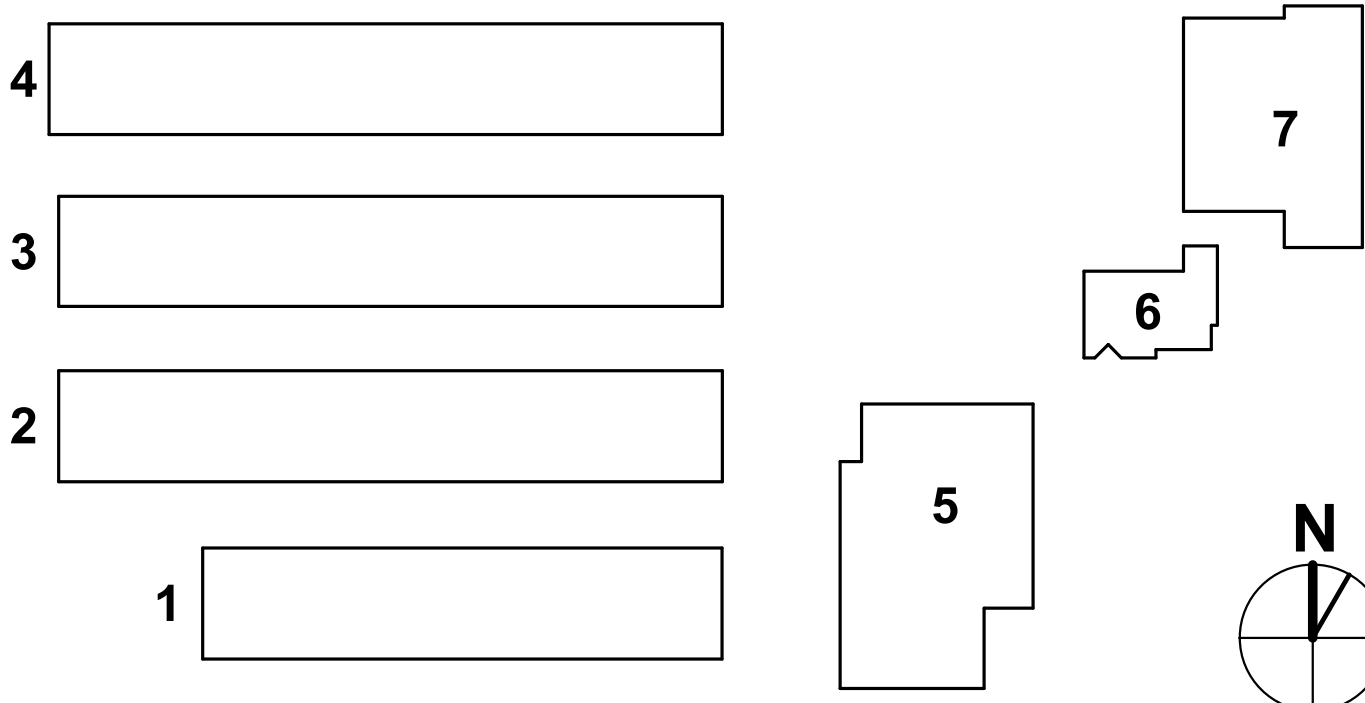
(E) GYPSUM BD. CEILING



(E) WOOD SOFFIT



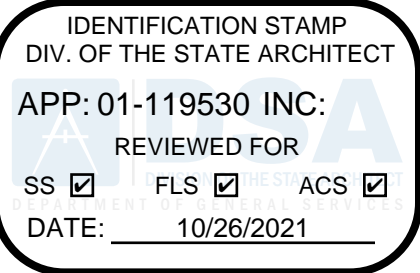
BUILDING KEY





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.



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SCHOOL DISTRICT

CONSULTANT

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REVISIONS

No. Description Date



MILESTONES

DD

90% CD

DSA SUB

05/26/2021

BACKCHECK

10/08/2021

SHEET

PARTIAL SITE  
ROOF PLAN

DATE

10/08/2021

JOB #

2021005.01

SHEET #

A5.01

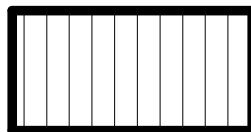
GRAPHIC KEY



(E) ASPHALT SHINGLE, CLASS C MINIMUM



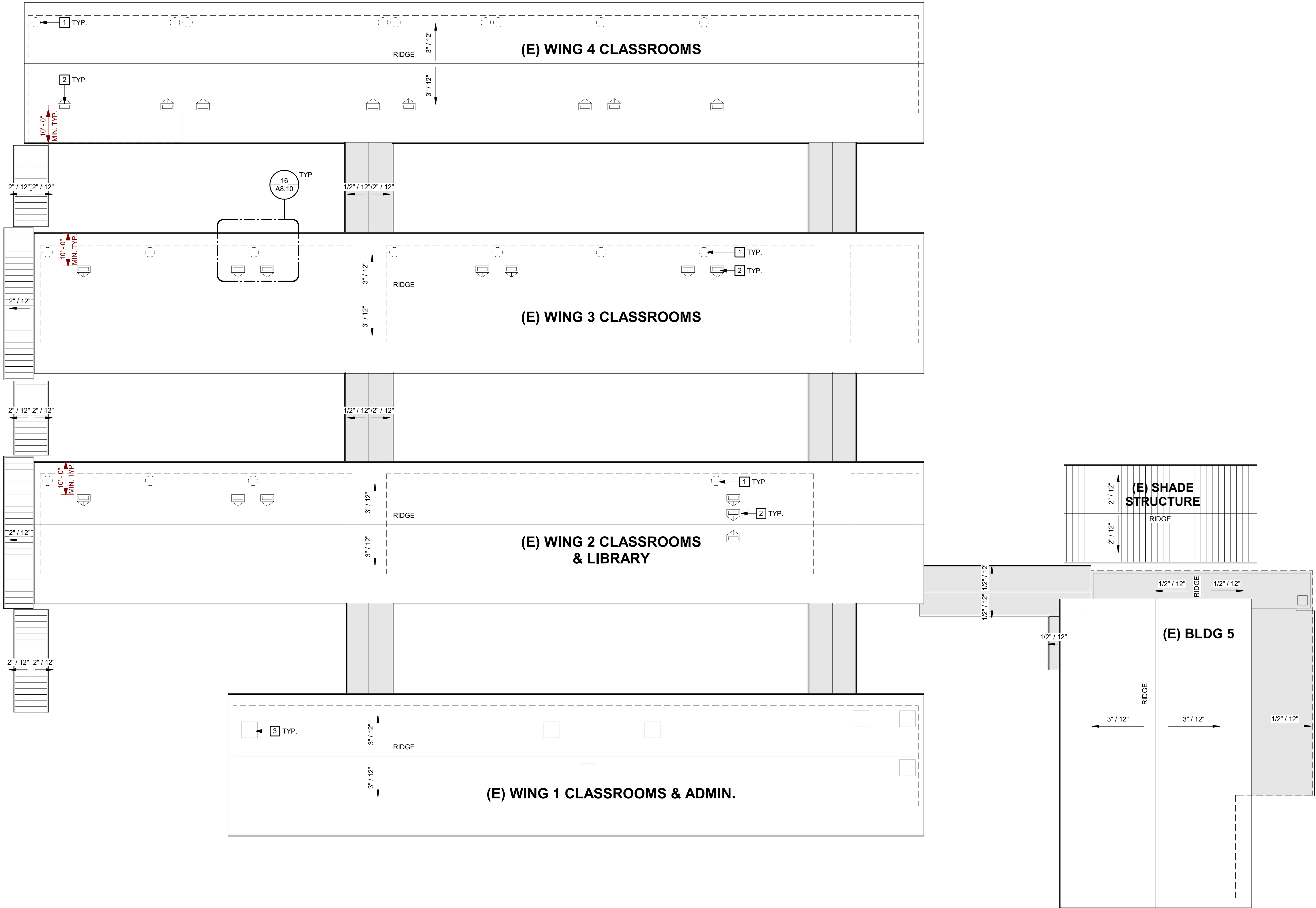
(E) SINGLE PLY ROOFING, CLASS C MINIMUM



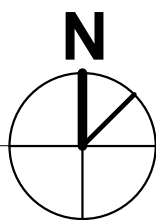
(E) METAL ROOFING



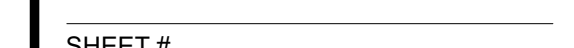
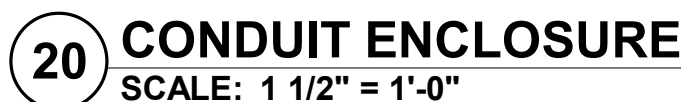
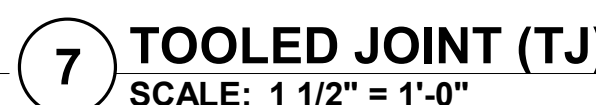
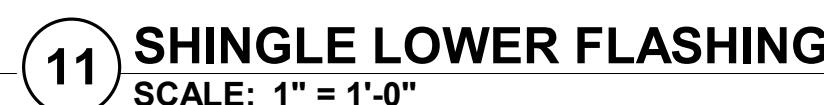
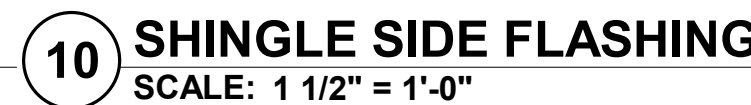
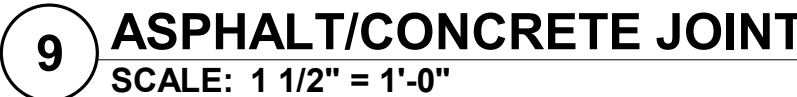
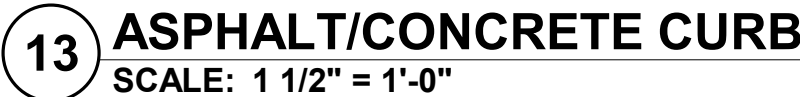
OUTLINE OF WALL BELOW



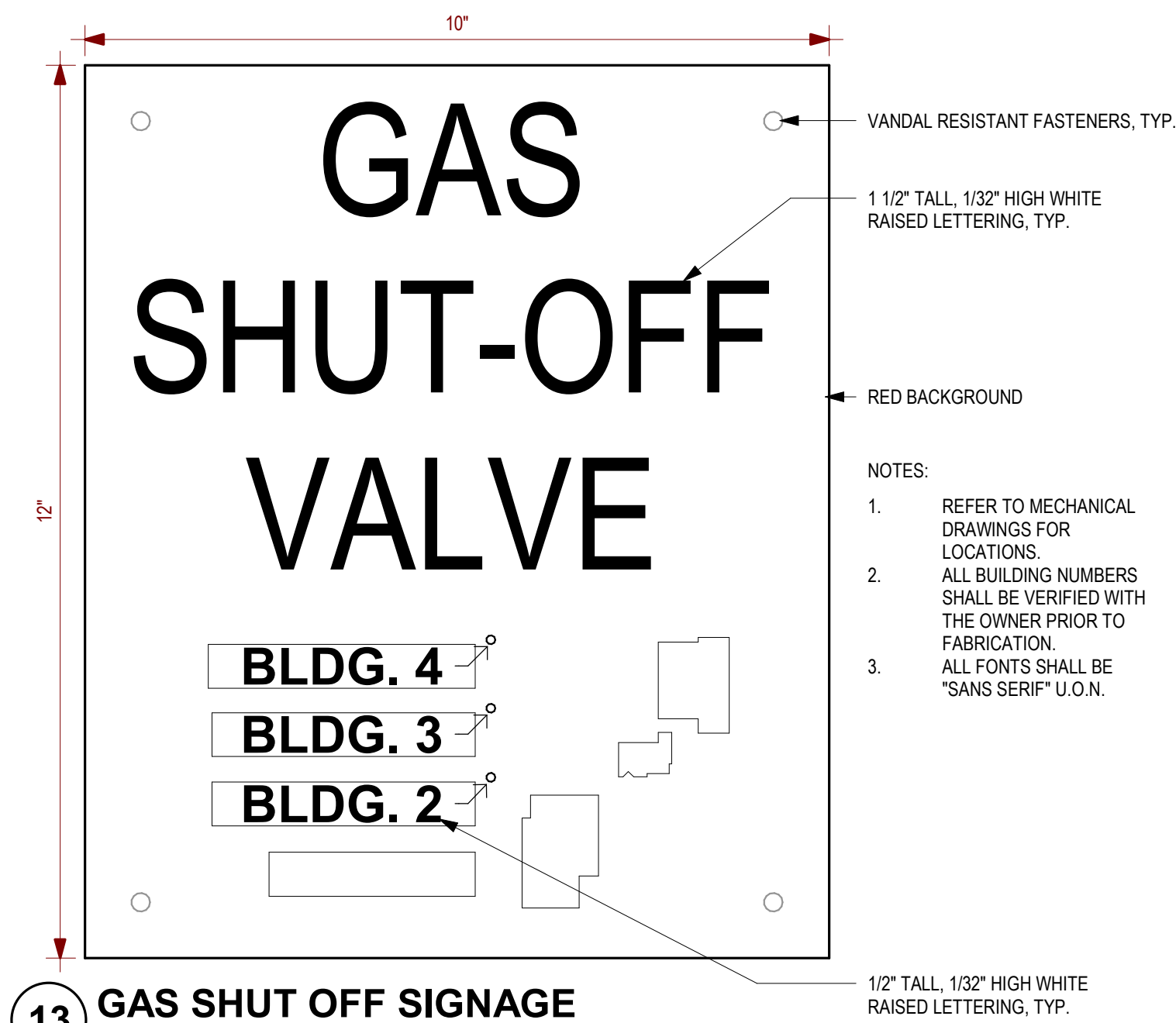
1 PARTIAL SITE ROOF PLAN  
SCALE: 1/16" = 1'-0"



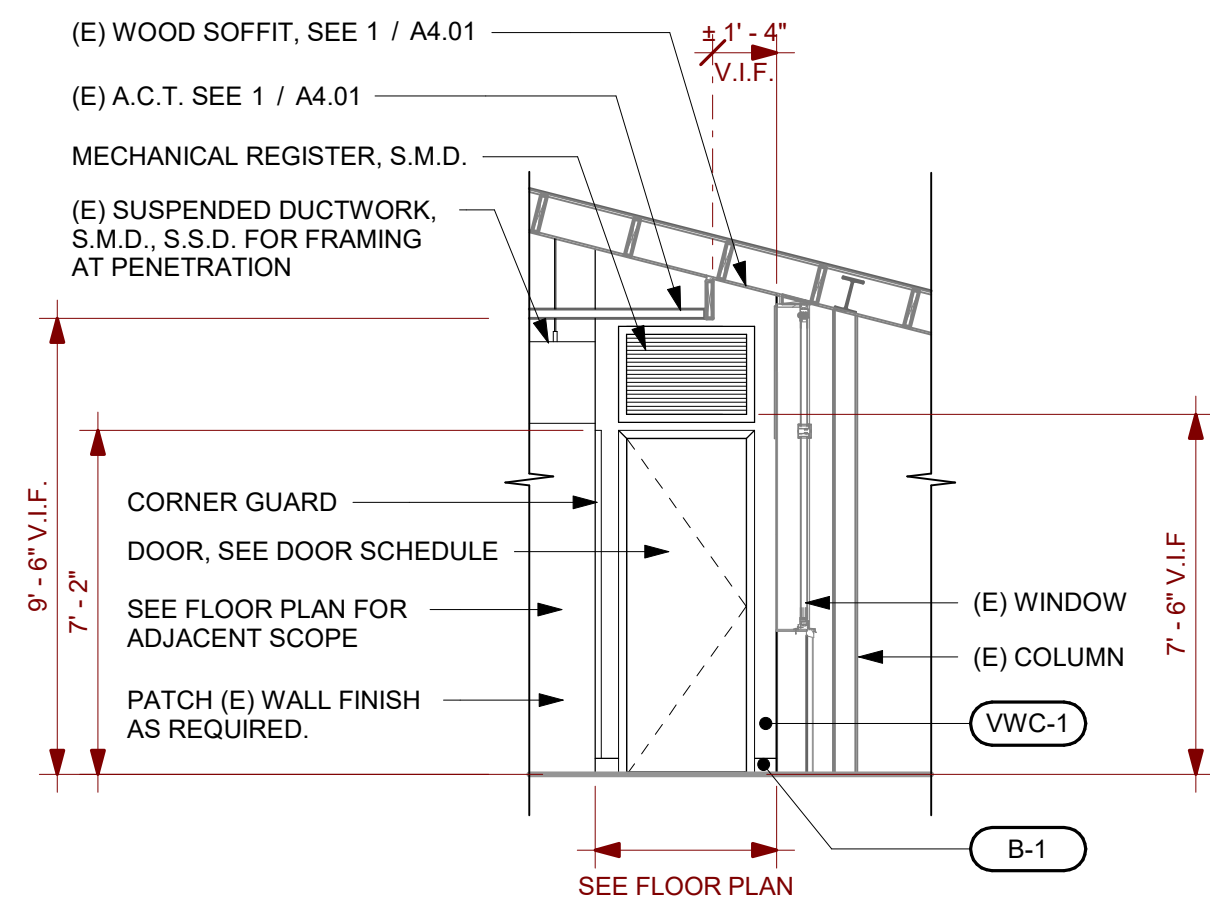




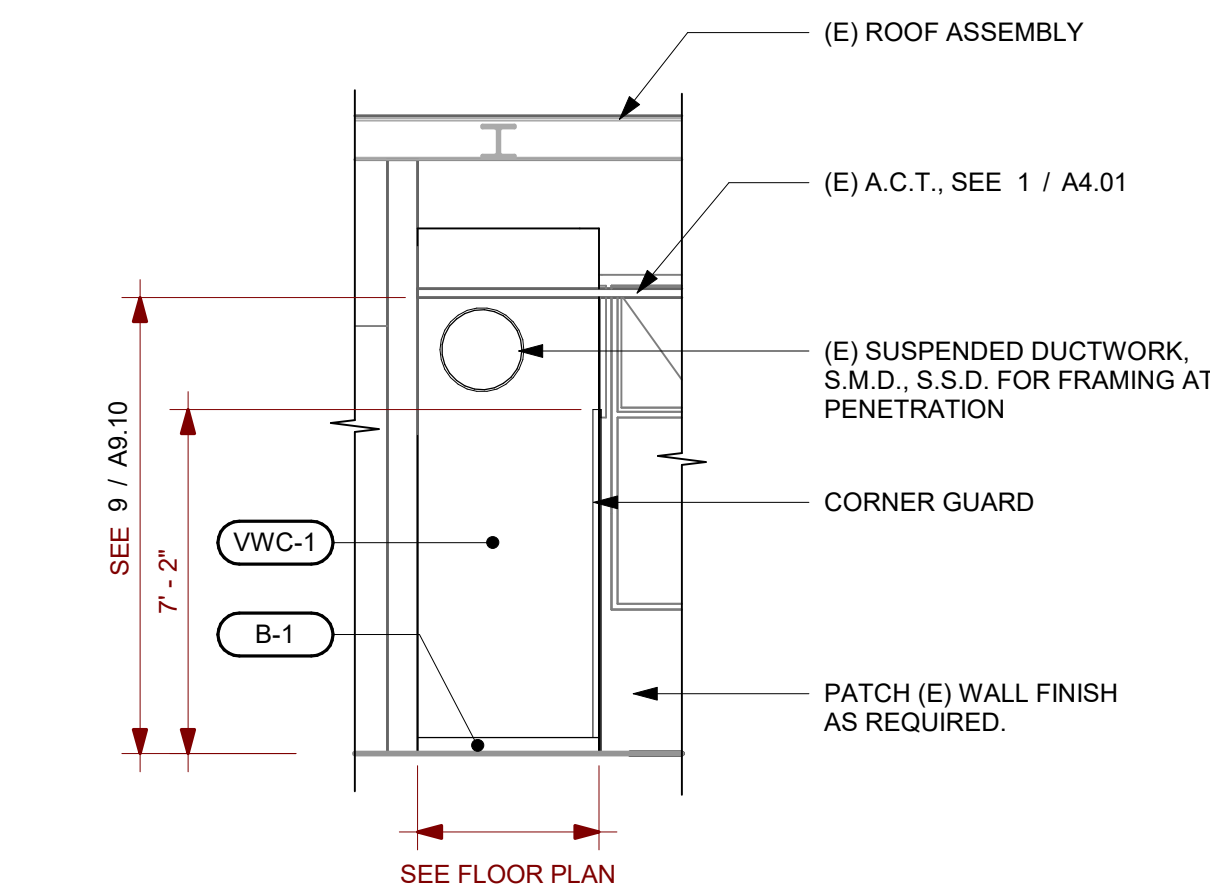




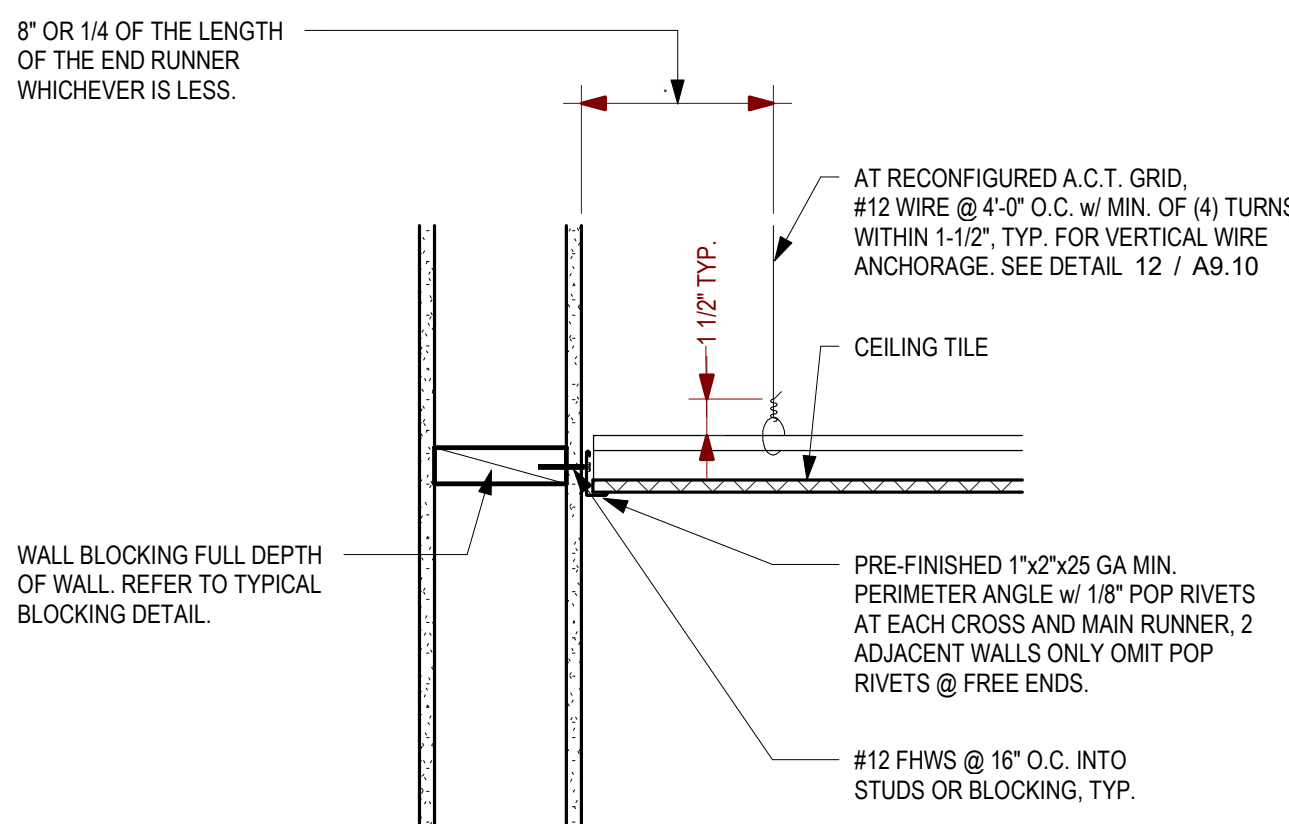
13 GAS SHUT OFF SIGNAGE  
SCALE: 6" = 1'-0"



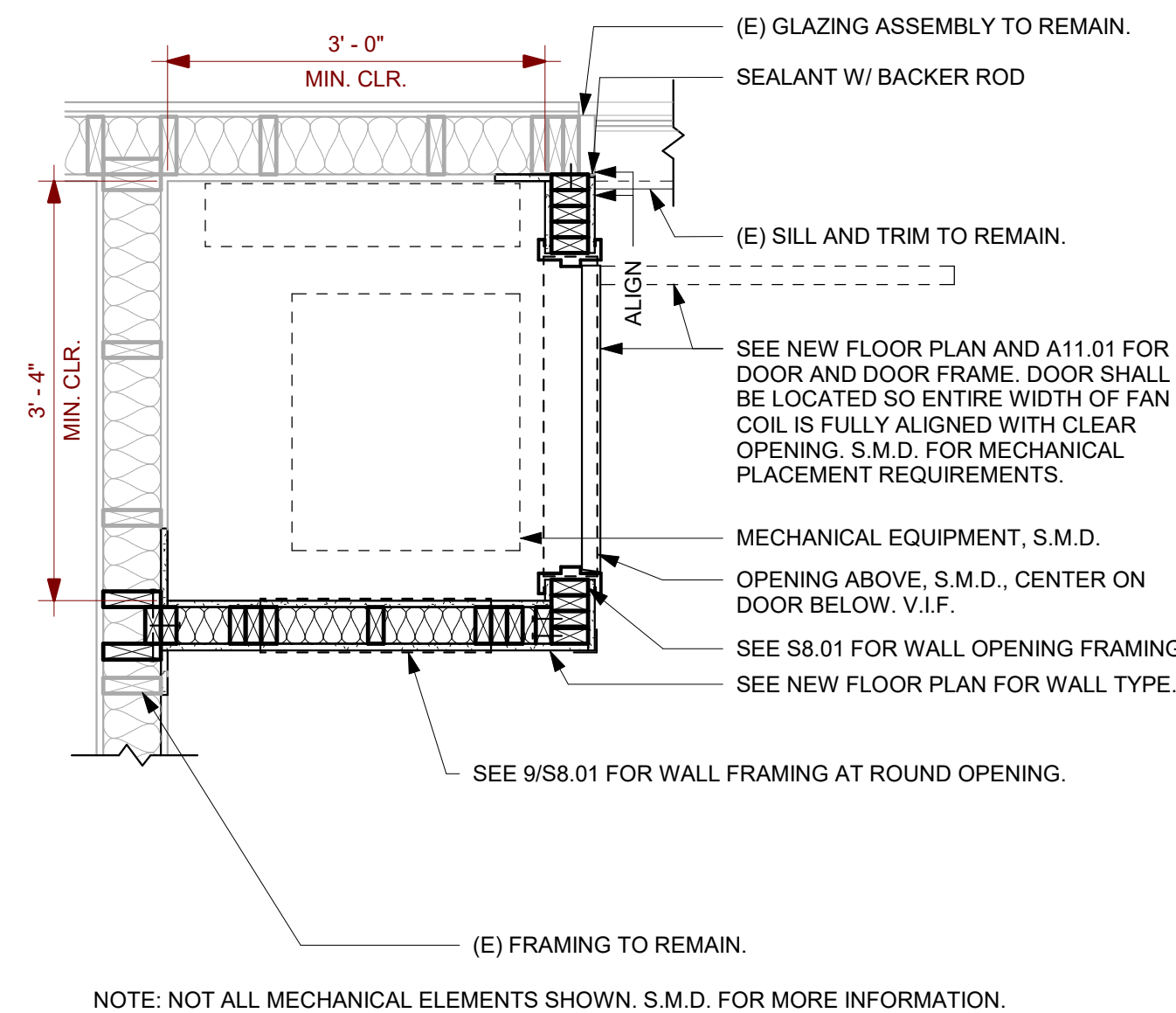
9 HVAC ENCLOSURE TYPICAL ELEVATION  
SCALE: 1/4" = 1'-0"



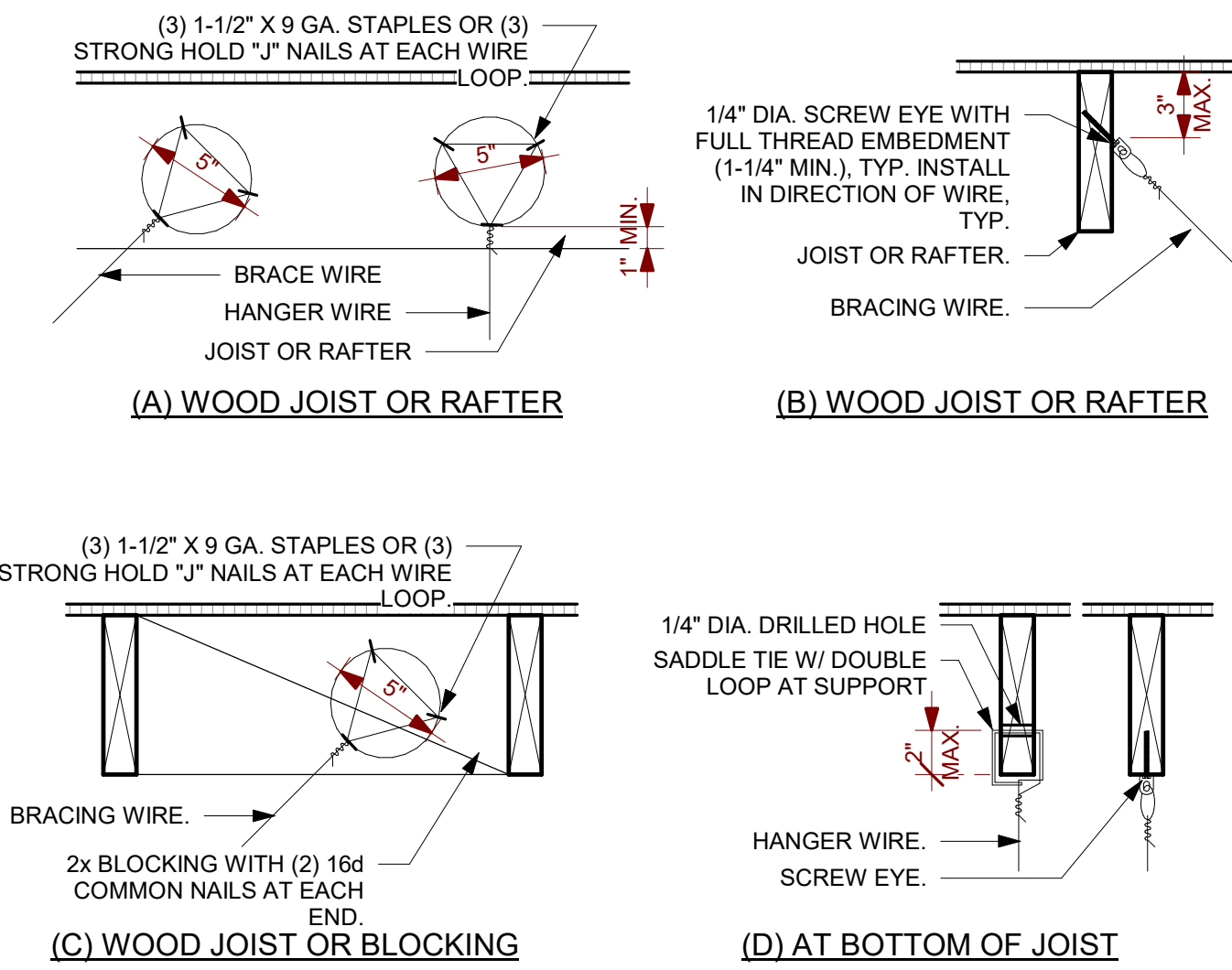
10 HVAC ENCLOSURE TYPICAL ELEVATION  
SCALE: 1/4" = 1'-0"



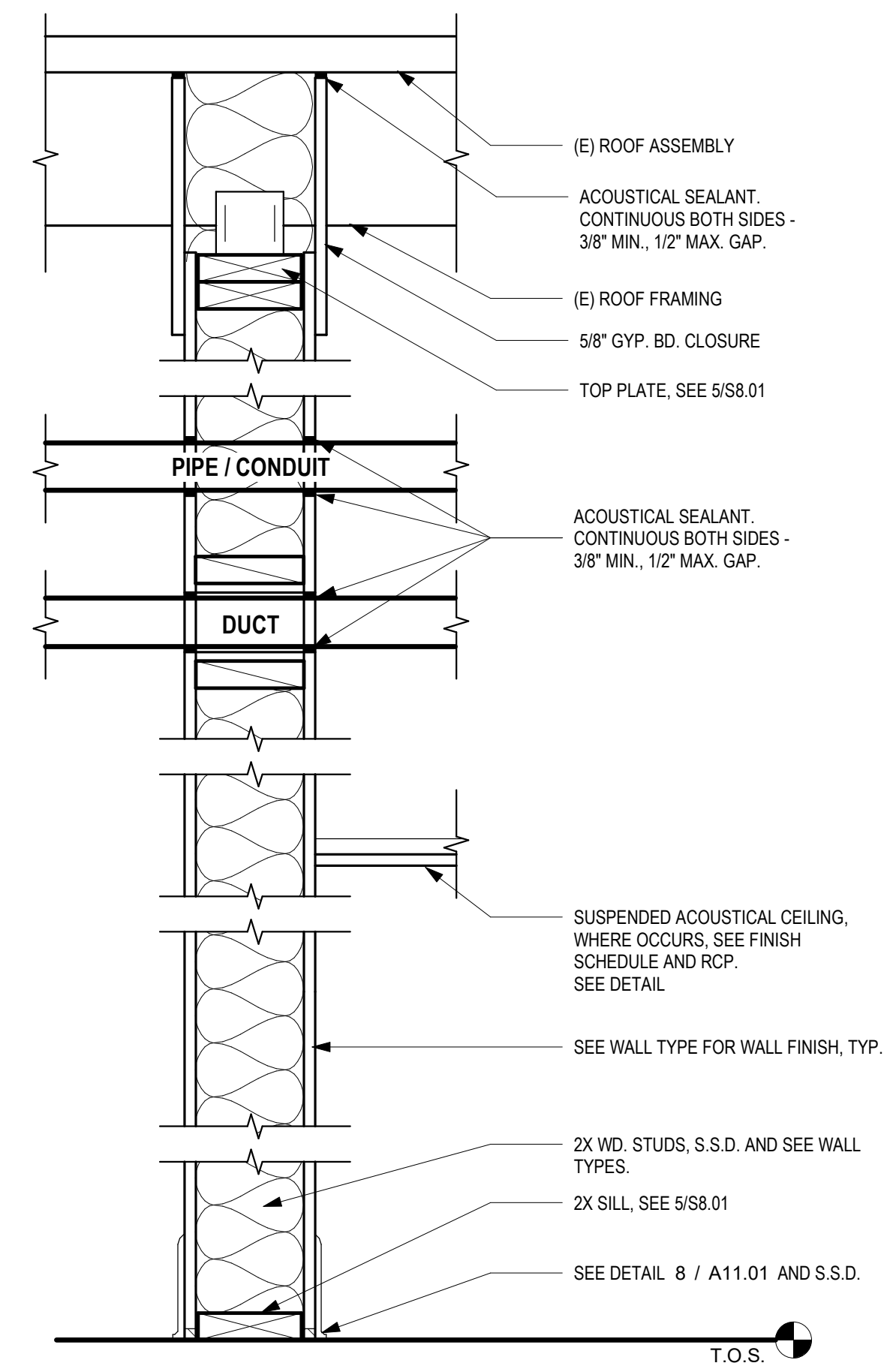
11 SUSP. CEILING FIXED END CONNECTION  
SCALE: 1 1/2" = 1'-0"



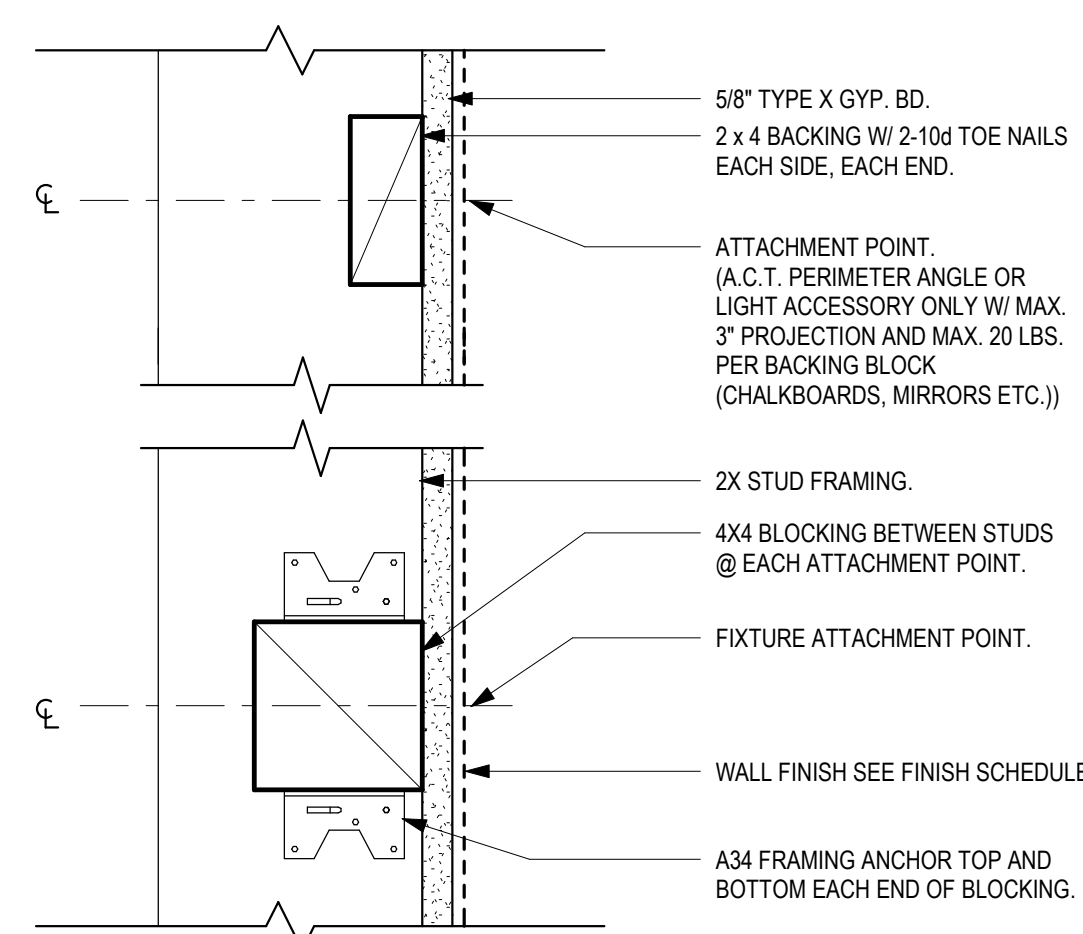
16 MECH. ENCLOSURE CLEARANCES, TYP.  
SCALE: 3/4" = 1'-0"



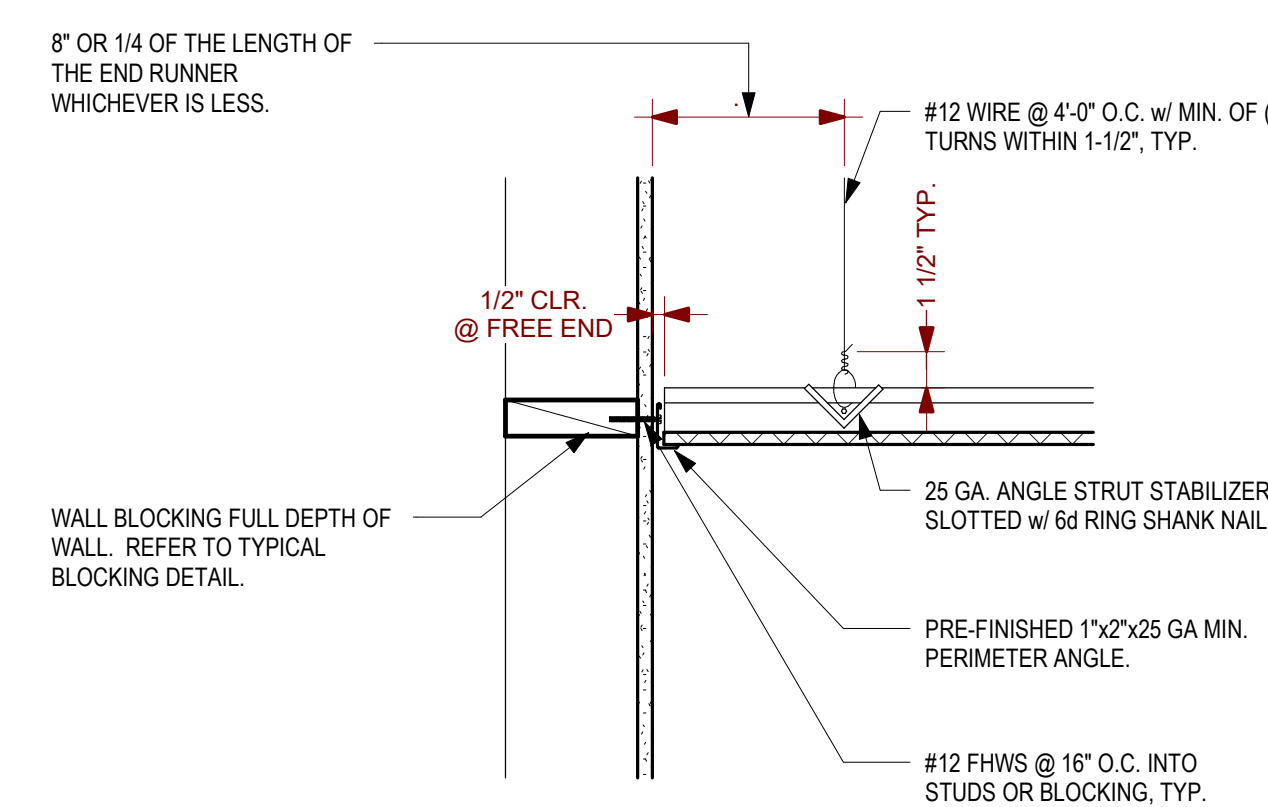
12 WIRE ATTACHMENT AT WOOD FRAMING  
SCALE: 1 1/2" = 1'-0"



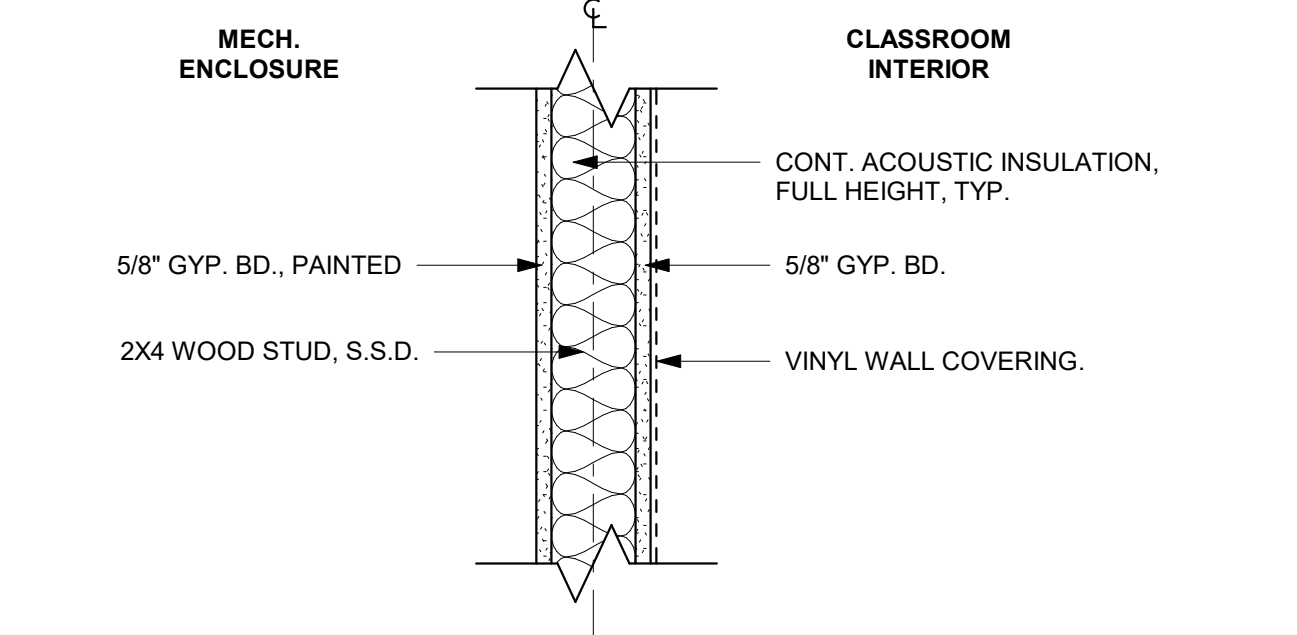
6 TYPICAL SOUND TREATED NONRATED WALL  
SCALE: 1 1/2" = 1'-0"



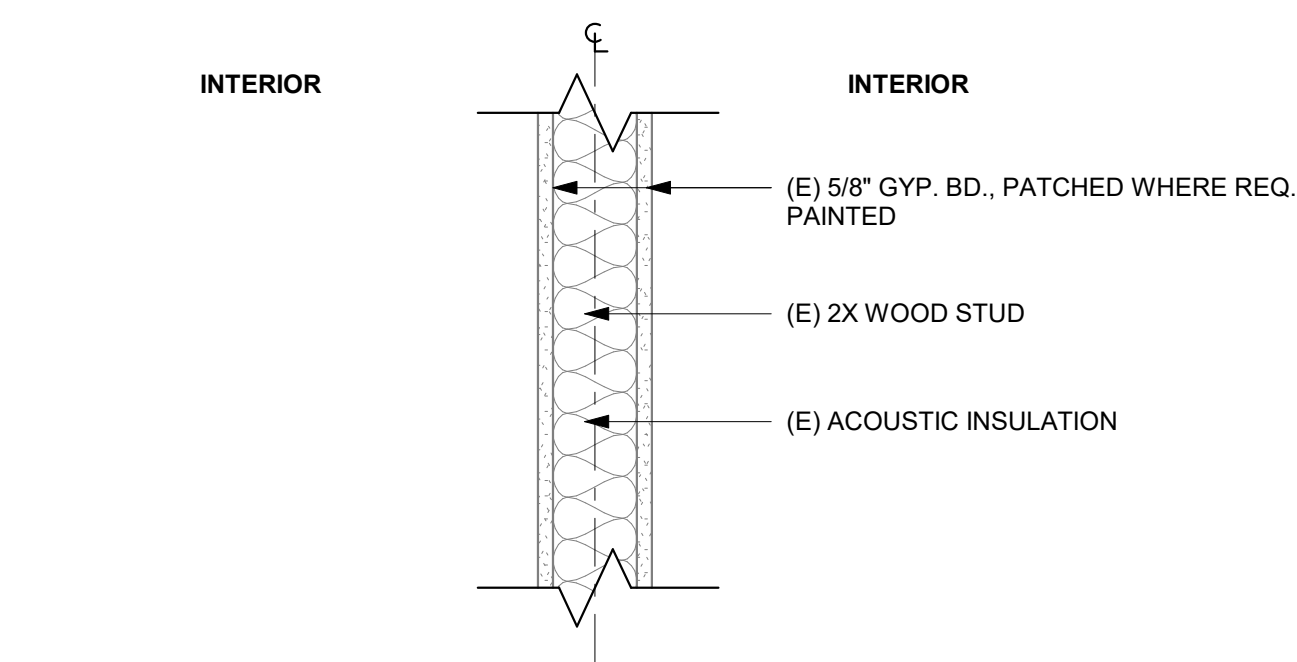
7 TYPICAL WOOD WALL BACKING/ BLOCKING  
SCALE: 3" = 1'-0"



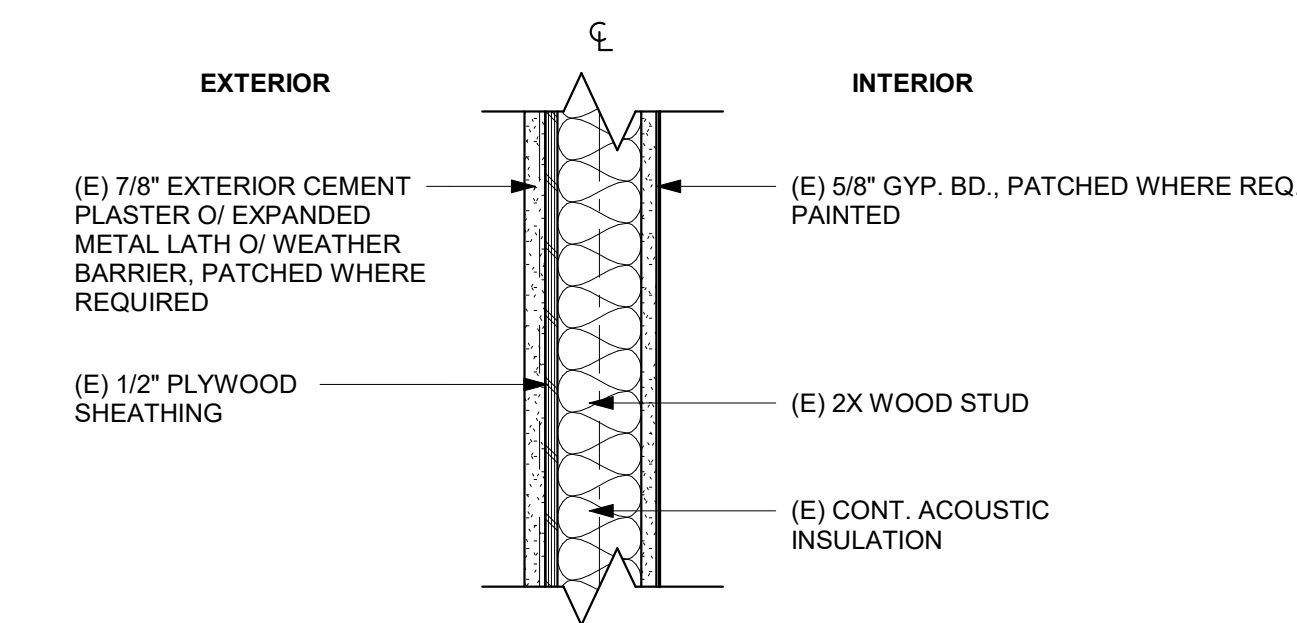
8 SUSP. CEILING FREE END CONNECTION  
SCALE: 1 1/2" = 1'-0"



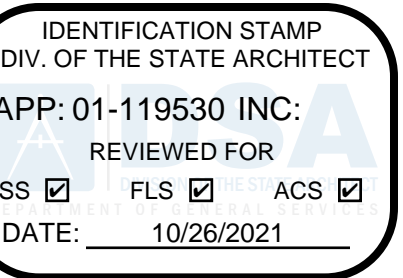
1 WALL TYPE - MECHANICAL ENCLOSURE  
SCALE: 1 1/2" = 1'-0"



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



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



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PROJECT

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SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

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APPL # 01-119530

REVISIONS

No. Description Date

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MILESTONES

DD

90% CD

DSA SUB 05/26/2021

BACKCHECK 10/08/2021

SHEET

INTERIOR  
ELEVATIONS &  
DETAILS

DATE 10/08/2021

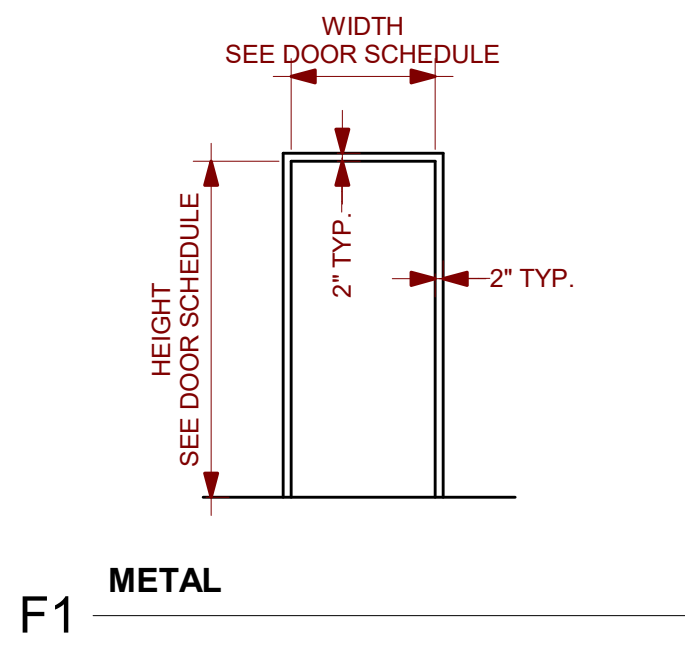
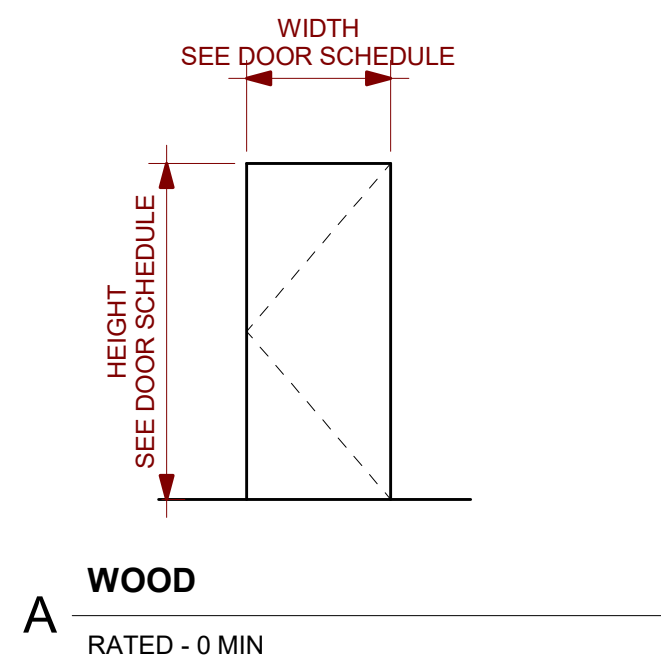
JOB # 2021005.01

SHEET #

A9.10



| DOOR SCHEDULE |              |        |      |        |       |        |             |               |               |             |                |
|---------------|--------------|--------|------|--------|-------|--------|-------------|---------------|---------------|-------------|----------------|
| DOOR ID       | OPENING SIZE |        | DOOR |        | FRAME |        | DETAILS     |               |               |             | HARDWARE GROUP |
|               | WIDTH        | HEIGHT | TYPE | FINISH | TYPE  | FINISH | HEAD DETAIL | JAMB-1 DETAIL | JAMB-2 DETAIL | SILL DETAIL |                |
| 7a            | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 8a            | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 9a            | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 10a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 11a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 12a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 13a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 14a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 15a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 16a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 10/A10.02     | 11/A11.01     | 4/A11.01    | 01             |
| 17a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 18a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 19a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 20a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 21a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 22a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 23a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 24a           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |
| 24b           | 2'-6"        | 7'-0"  | A    | P-2    | F1    | P-3    | 11/A11.01   | 11/A11.01     | 11/A11.01     | 4/A11.01    | 01             |



#### GENERAL DOOR SCHEDULE 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) CPT-1 | CARPET (SHEET)                         |              |                |              |
| (E) SF-1  | WOOD SOFFIT                            |              |                |              |
| (E) VSF-1 | VINYL SHEET FLOORING                   |              |                |              |
| ACT-1     | 2'-0" X 4'-0" ACOUSTICAL CEILING TILES | SEE SPEC.    |                | SEE 11/A9.10 |
| B-1       | 4" RUBBER TOP SET BASE                 | SEE SPEC.    |                | SEE 8/A11.01 |
| GB-1      | GYP SUM BOARD                          | SEE SPEC.    |                |              |
| P-1       | PAINT                                  |              |                |              |
| P-2       | PAINT                                  |              |                |              |
| P-3       | PAINT                                  |              |                |              |
| VWC-1     | VINYL WALL COVERING                    | SEE SPEC.    |                |              |

#### GENERAL FINISH SCHEDULE NOTES

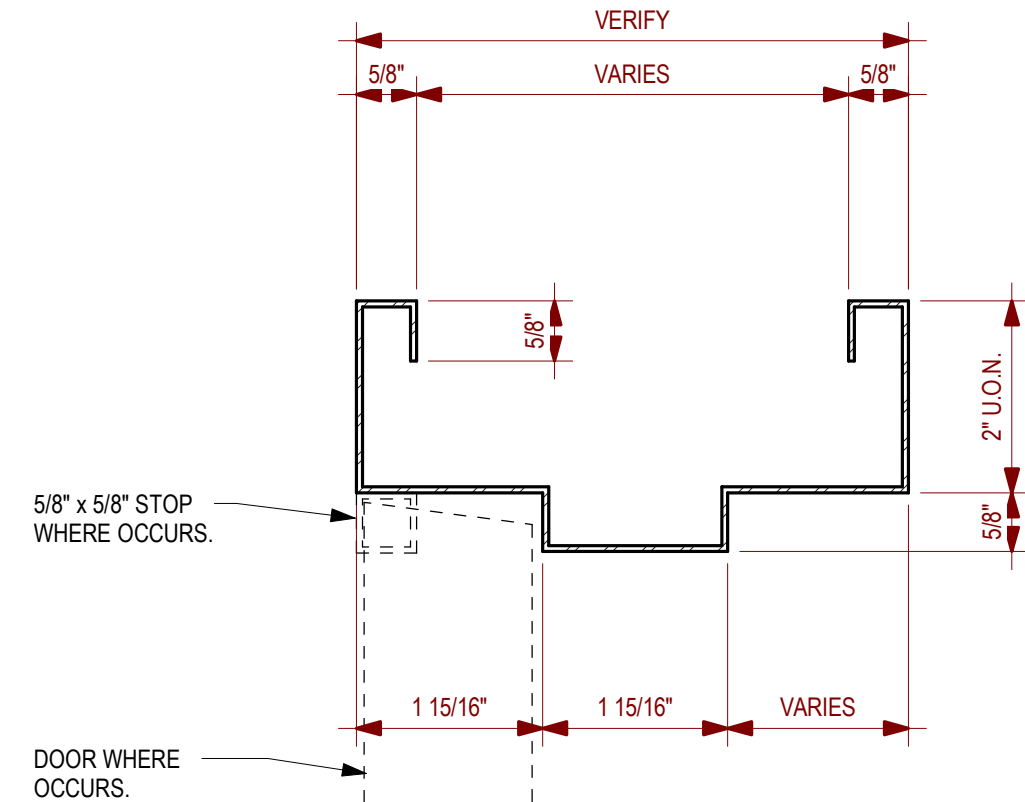
- A WHERE MULTIPLE FINISHES ARE CALLED OUT, REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF INDIVIDUAL FINISHES.
- B PROVIDE FINISHES TO COMPLY WITH FLAME SPREAD & SMOKE DENSITY REQUIREMENTS OF CBC 803.804, AND TABLE 803.13. UNSPRINKLERED CLASSROOMS (OCCUPANCY GROUP E) SHALL BE CLASS C MINIMUM WALL AND CEILING FINISH).
- 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

#### DOOR TYPES

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

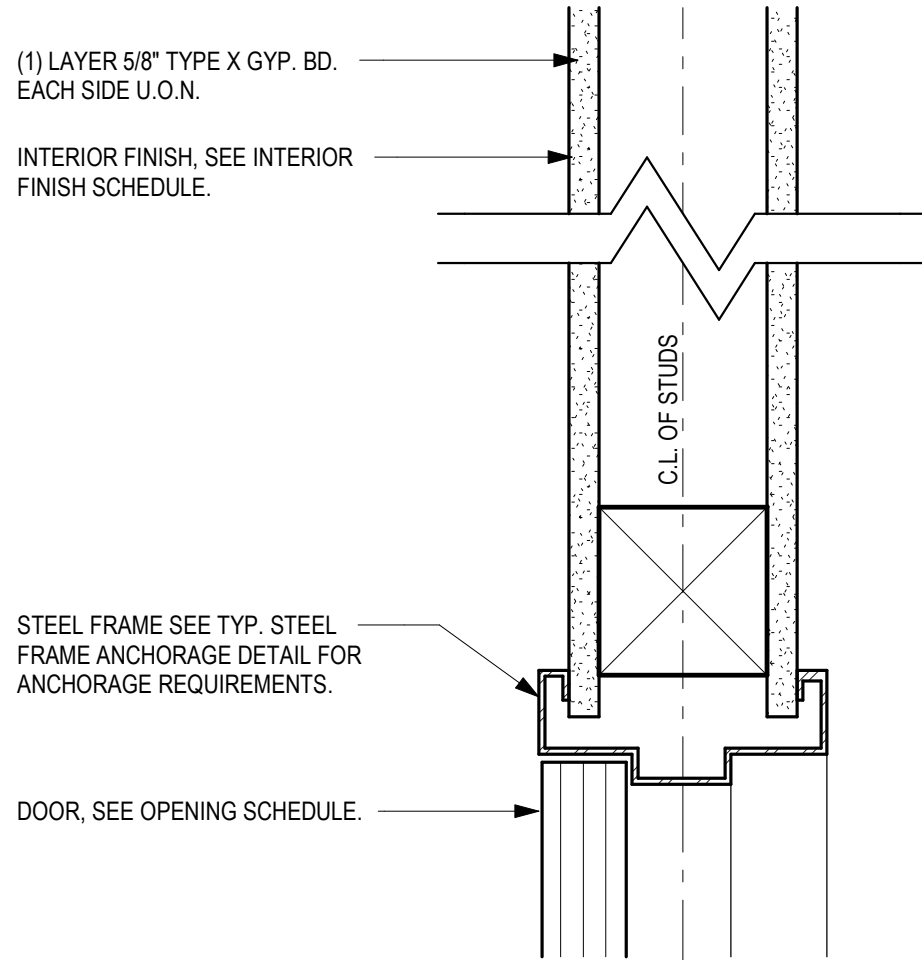
#### FRAME TYPES

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



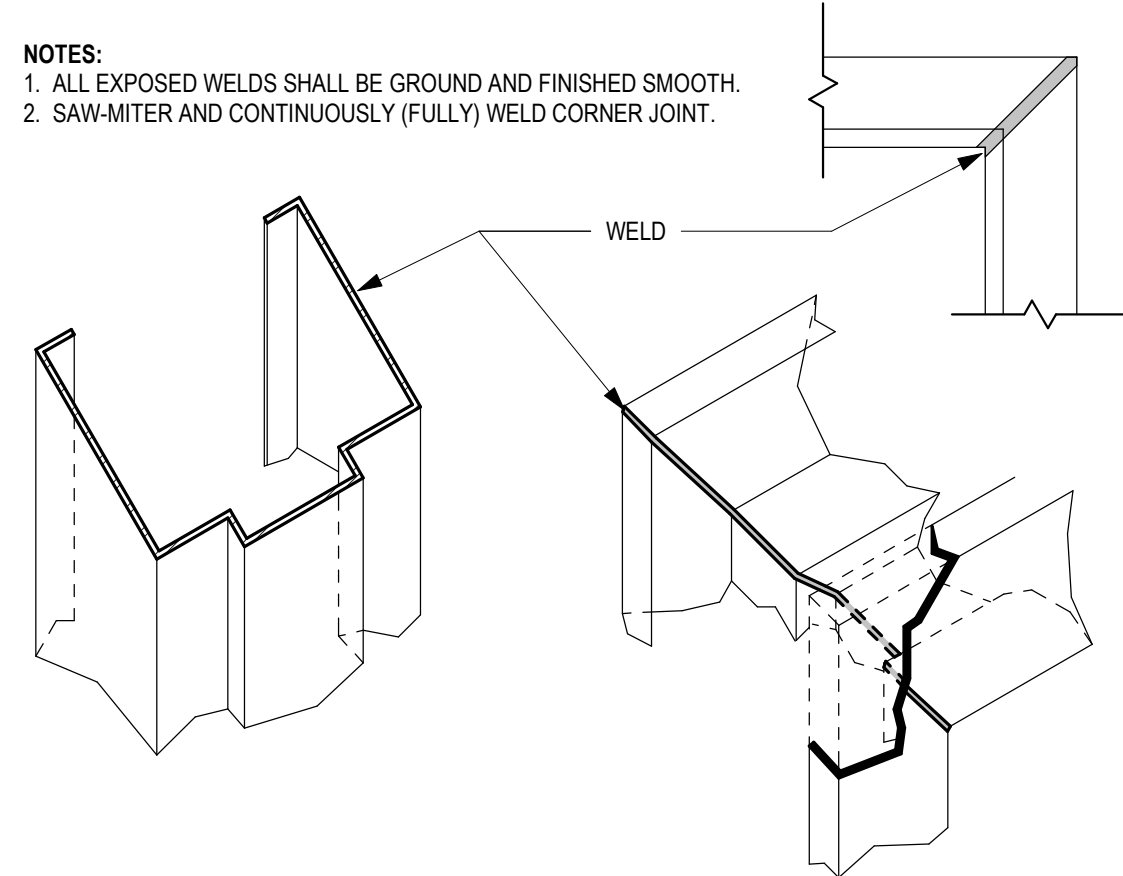
#### 10 TYPICAL STEEL FRAME DOOR PROFILE

SCALE: 6" = 1'-0"



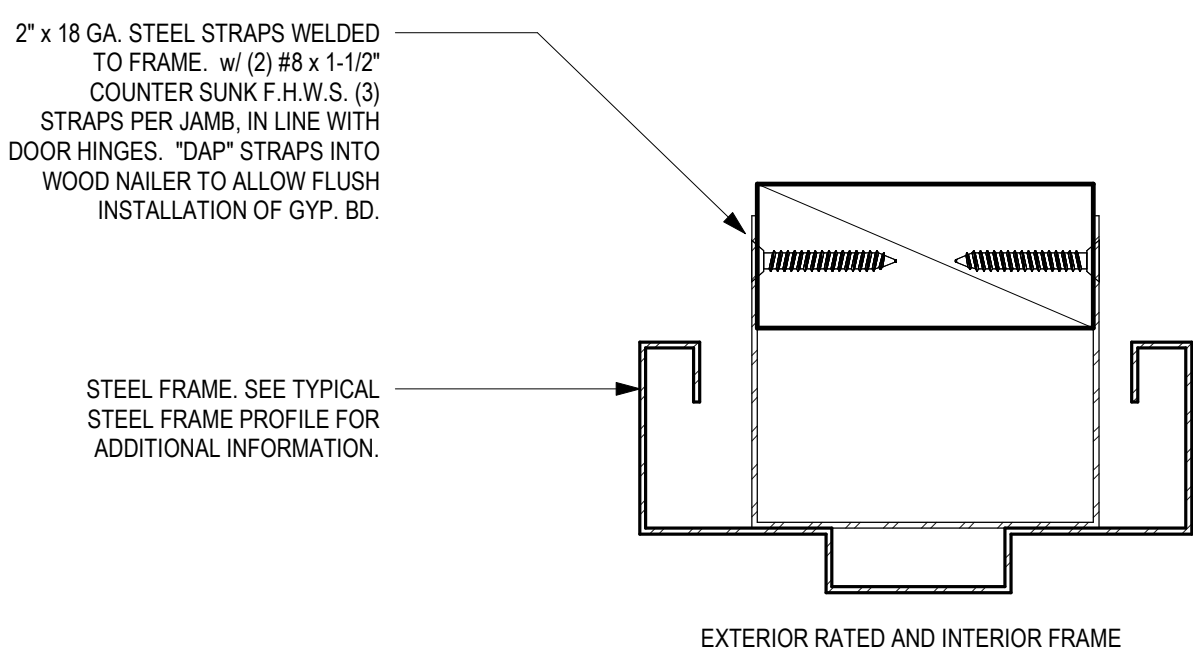
#### 11 INTERIOR STEEL FRAME HEAD AND JAMB

SCALE: 3" = 1'-0"



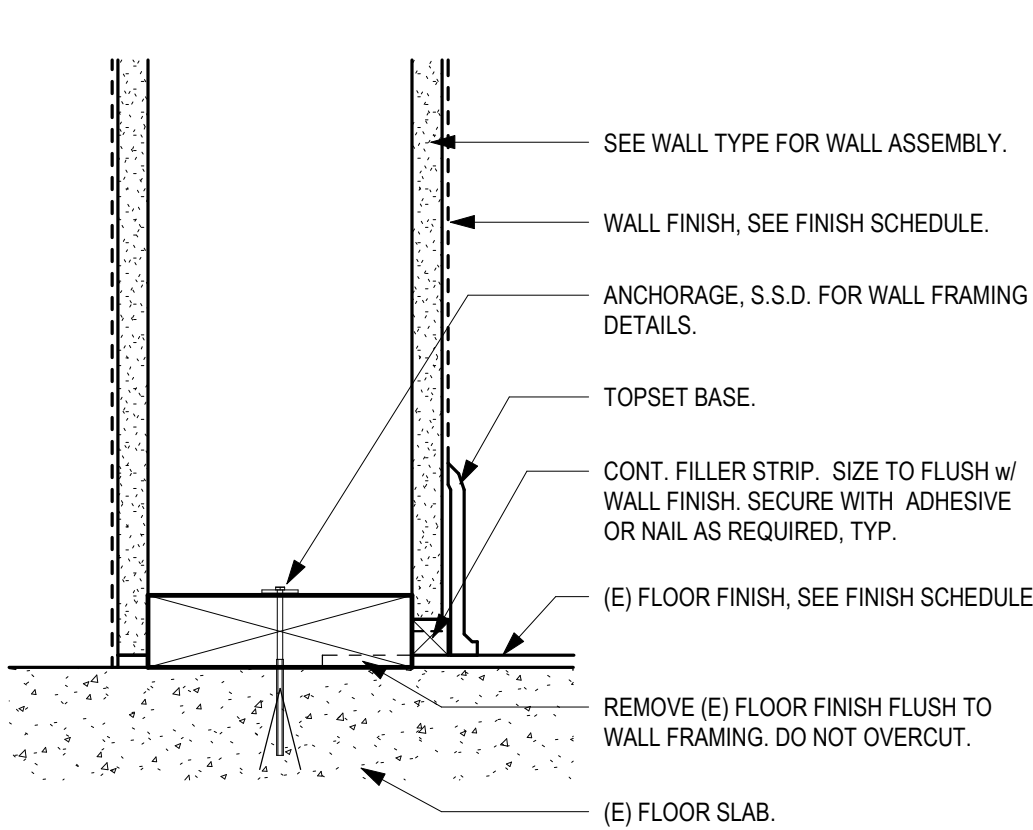
#### 12 TYP. WELDING @ STEEL FRAME CORNER

SCALE: 1 : 1



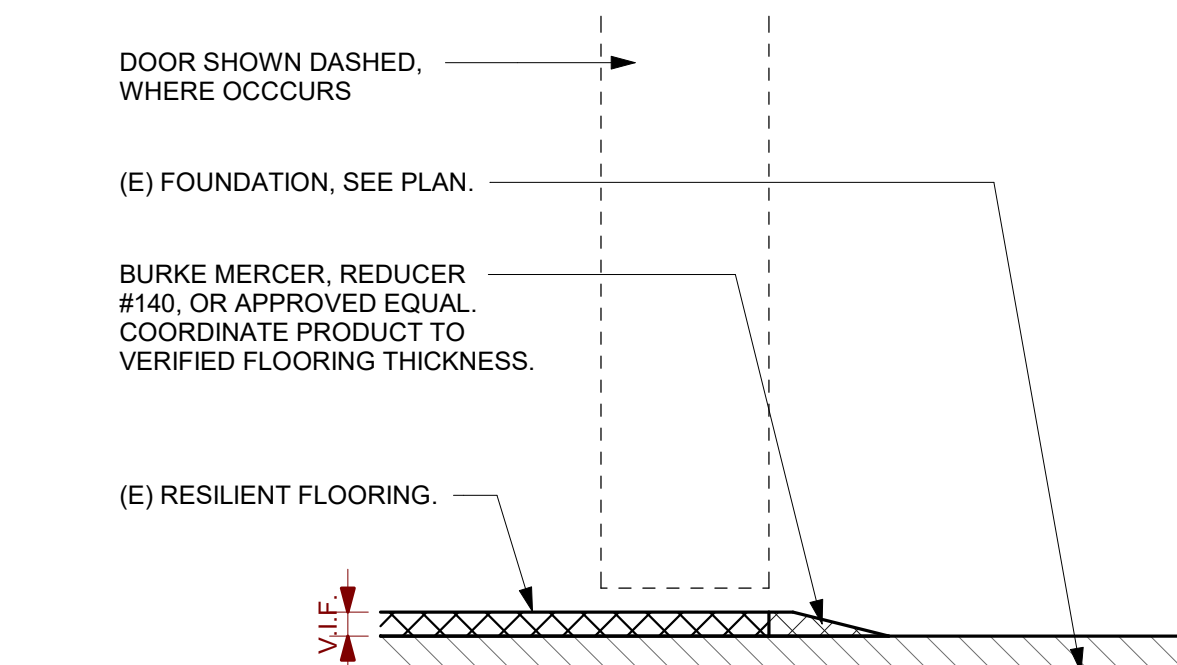
#### 7 TYPICAL STEEL FRAME ANCHORAGE

SCALE: 6" = 1'-0"



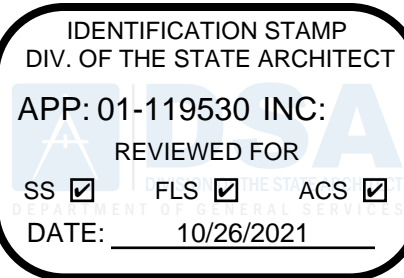
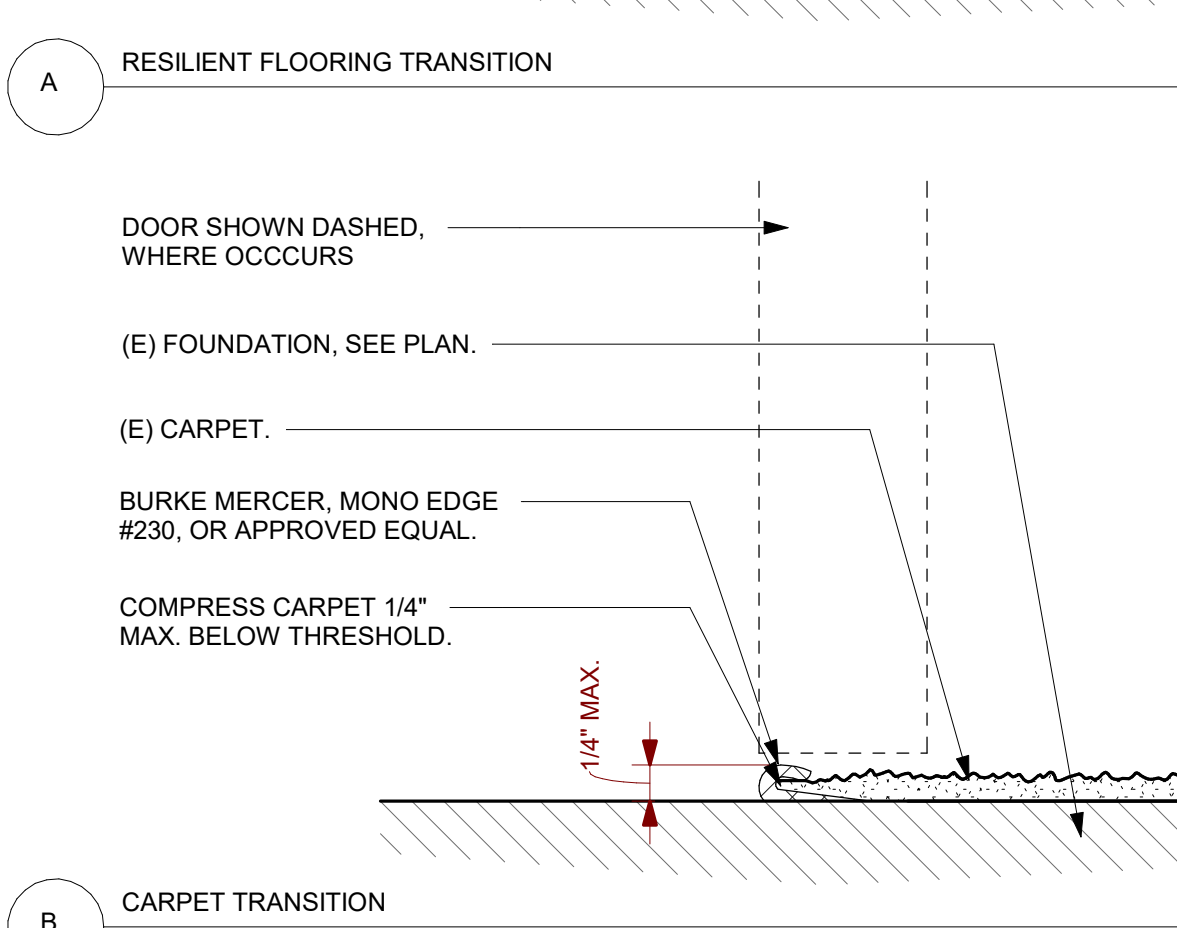
#### 8 INTERIOR WALL BASE

SCALE: 3" = 1'-0"



#### 4 FLOORING TRANSITION

SCALE: 6" = 1'-0"



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architects

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fax: (408)-300-5121

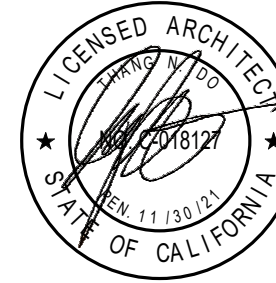
PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER 41-26

APPL # 01-119530

REVISIONS

No. Description Date

△

MILESTONES

DD

90% CD

DSA SUB 05/26/2021

BACKCHECK 10/08/2021

SHEET

FINISH  
SCHEDULE,  
CASEWORK  
SCHEDULE, &  
OPENING  
SCHEDULE,  
LEGENDS, &  
DETAILS

DATE 10/08/2021

JOB # 2021005.01

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.

I. 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 SS/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 = 1.842  
5. S1 = 0.754  
6. SDS = 1.474  
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<br>(PSI) | MAXIMUM WEIGHT<br>(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:  
NO. 11 BARS AND SMALLER = 3/4"  
NO. 14 BARS AND LARGER = 1-1/2"  
a. BEAMS, COLUMNS:  
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS = 1-1/2"  
a. SHELLS, FOLDED PLATE MEMBERS:  
NO. 5 BARS AND SMALLER = 1/2"  
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 MDSPAN.  
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 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.

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. HY-150 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                     | 12660         | 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 T2Z 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 T2Z IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN) |            |                         |                            |
|--|------------|-------------------------|----------------------------|
| ANCHOR DIAMETER (IN)   | EMBED (IN) | MINIMUM HOLE DEPTH (IN) | TORQUE TEST 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 DEPTH (IN) | TORQUE TEST 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 DEPTH (IN) | TENSION TEST 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 DEPTH (IN) | TENSION TEST 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-U PER ICC-ES ESR-2269 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 AND SPECIAL INSPECTIONS

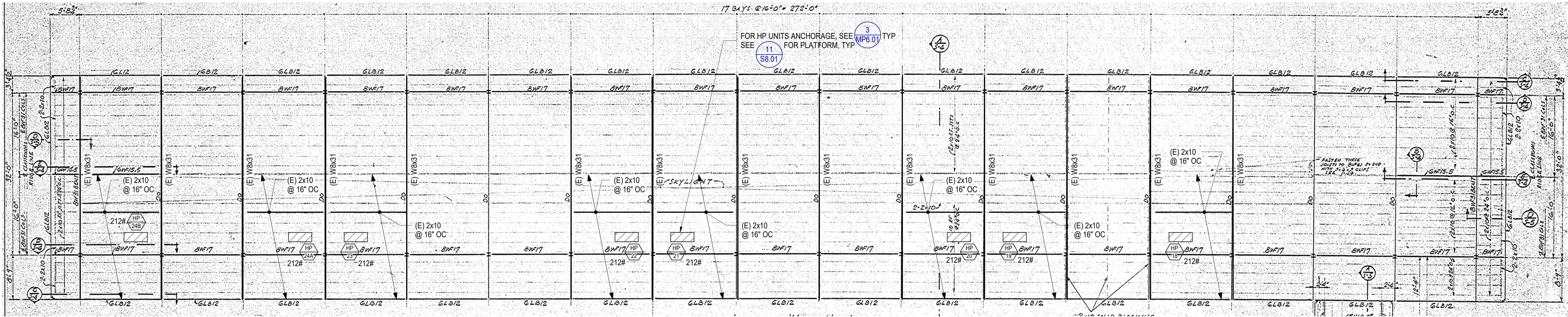
A. THE FOLLOWING ITEMS ARE EXEMPT FROM DSA REQUIREMENTS FOR STRUCTURAL TESTS / SPECIAL INSPECTION. SEE DSA FORM 103 AND SPECIFICATIONS:

1. TESTING OF REINFORCING BARS IS NOT REQUIRED SUBJECT TO THE REQUIREMENTS AND LIMITATIONS GIVEN IN CBC SECTION 1910A.2.  
2. BATCH PLANT INSPECTION OF CONCRETE IS WAIVED IN COMPLIANCE WITH CBC SECTION 1705A.3.2. SEE SPECIFICATIONS FOR REQUIRED CERTIFICATION OF CEMENT AND REINFORCING, TAKING AND SAMPLING OF STRENGTH TEST, AND PROVISION OF WEIGHMASTER'S BATCH TICKETS.  
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.1.1B 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

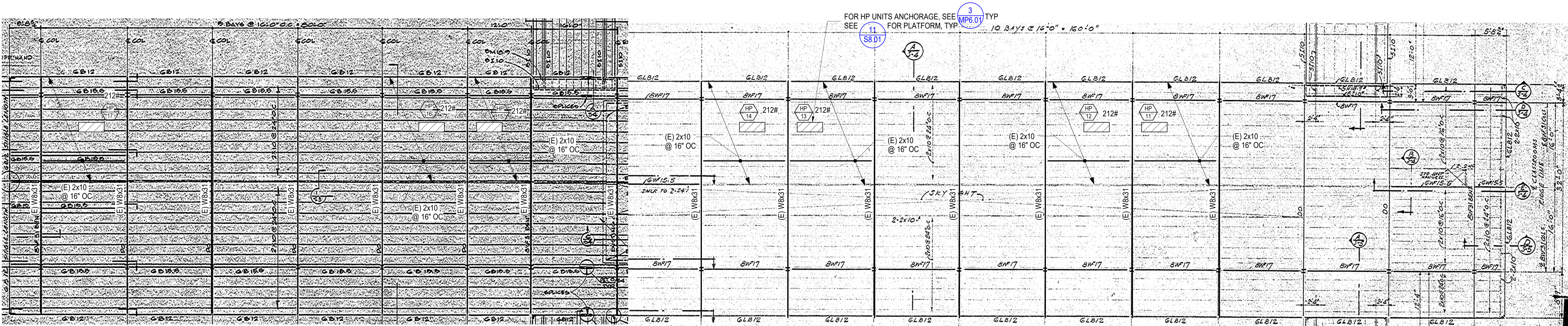
| ABBREVIATION | DESCRIPTION                          | ABBREVIATION | DESCRIPTION                                       |
|--------------|--------------------------------------|--------------|---|
| (E)          | EXISTING                             | LLV          | LONG LEG VERTICAL                                 |
| (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                         |





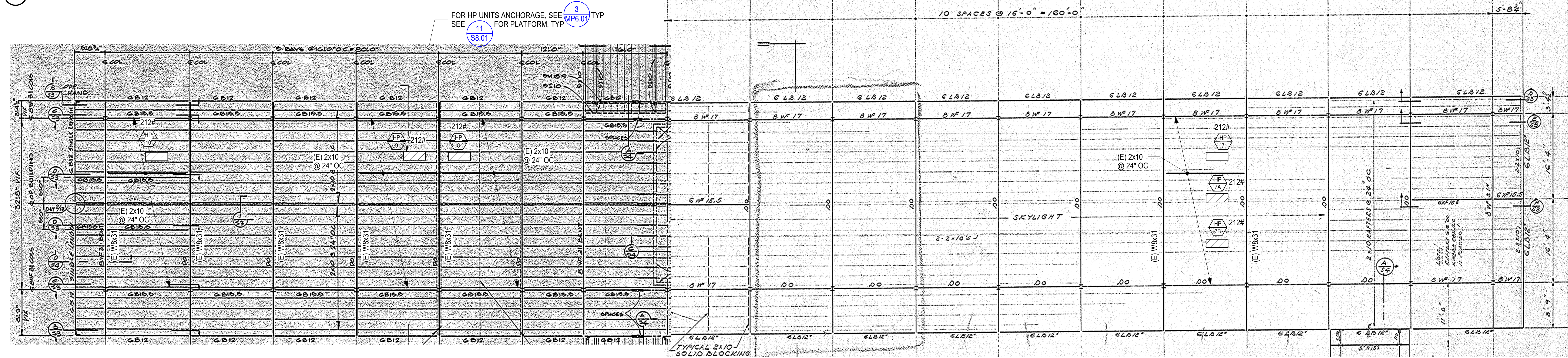
1 EXISTING ROOF FRAMING PLAN - WING 4

NTS



2 EXISTING ROOF FRAMING PLAN - WING 3

NTS



3 EXISTING ROOF FRAMING PLAN - WING 2

NTS

SHEET NOTES:

- LOCATIONS OF MECHANICAL UNITS ARE SHOWN FOR REFERENCE ONLY. SEE <sup>16</sup>AS10 AND MP2.02 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.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 01-119530 INC.  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 10/26/2021

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

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FILE NUMBER 41-26  
APPL # 01-119530  
REVISIONS  
No. Description Date

MILESTONES  
DD  
90% CD  
DSA SUB 05/26/2021  
BACKCHECK

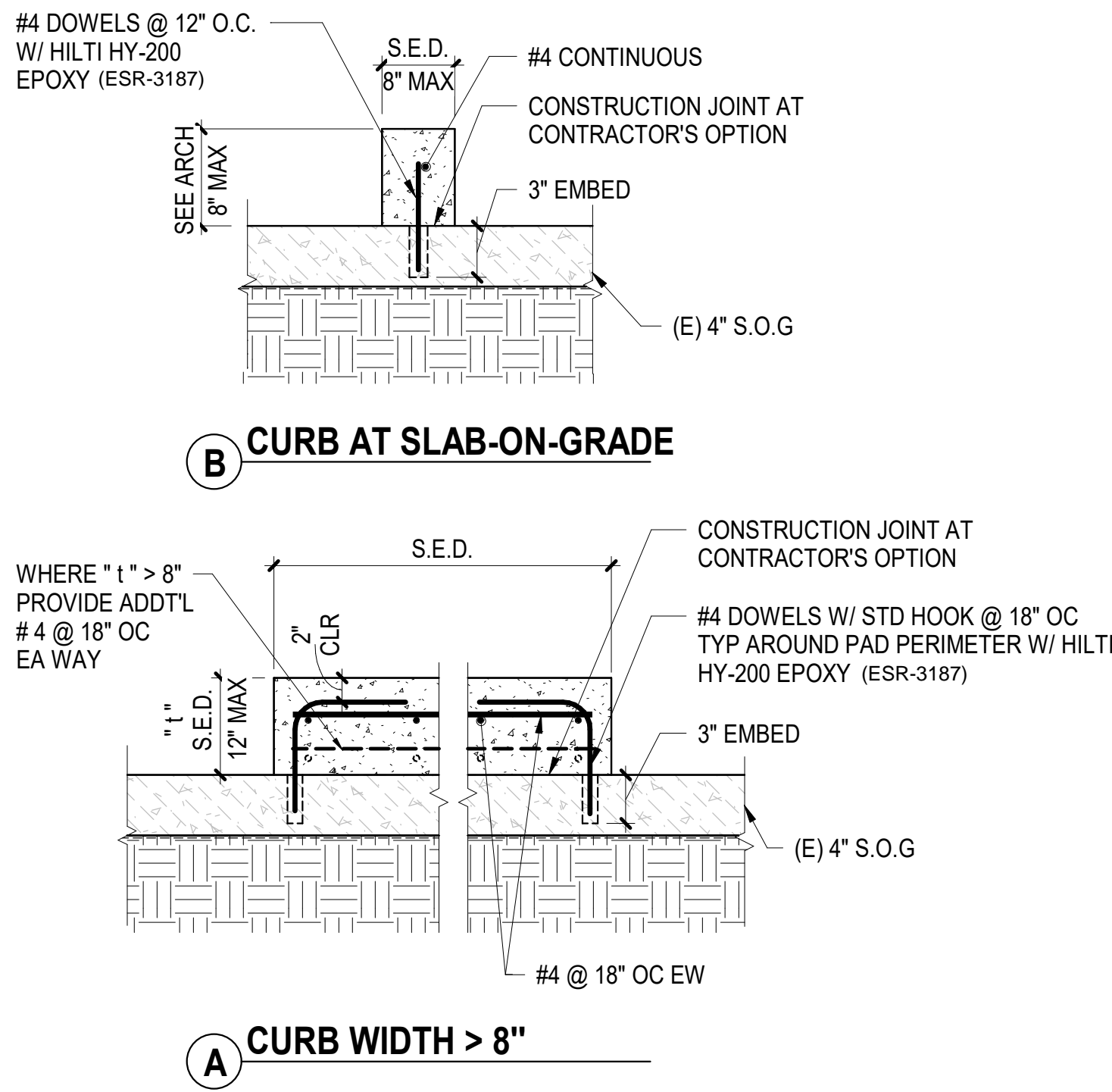
SHEET  
EXISTING ROOF  
FRAMING PLANS -  
WINGS 2, 3 & 4

DATE 05/26/2021  
JOB # 2021005.01  
SHEET #  
S2.01







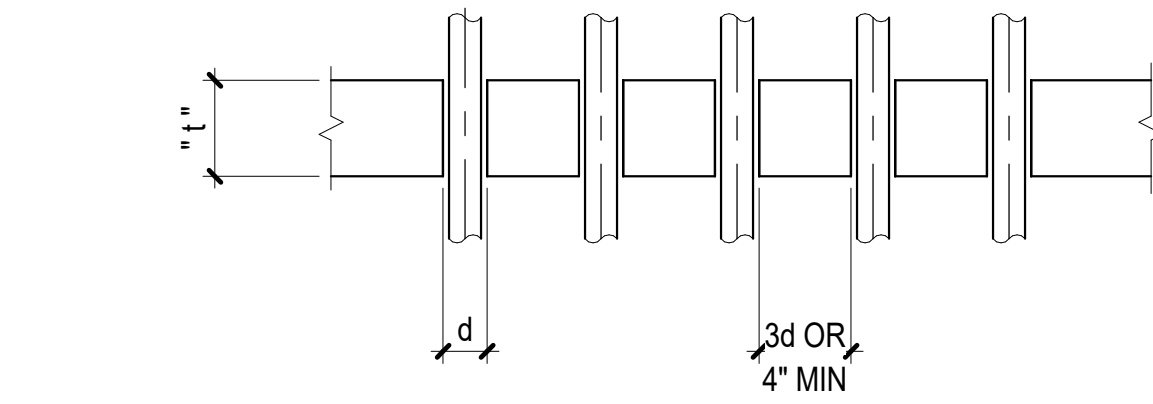


9 CURBS AND HOUSEKEEPING PADS AT (E) S.O.G

NTS

5 SLAB-ON-GRADE DETAIL

NTS



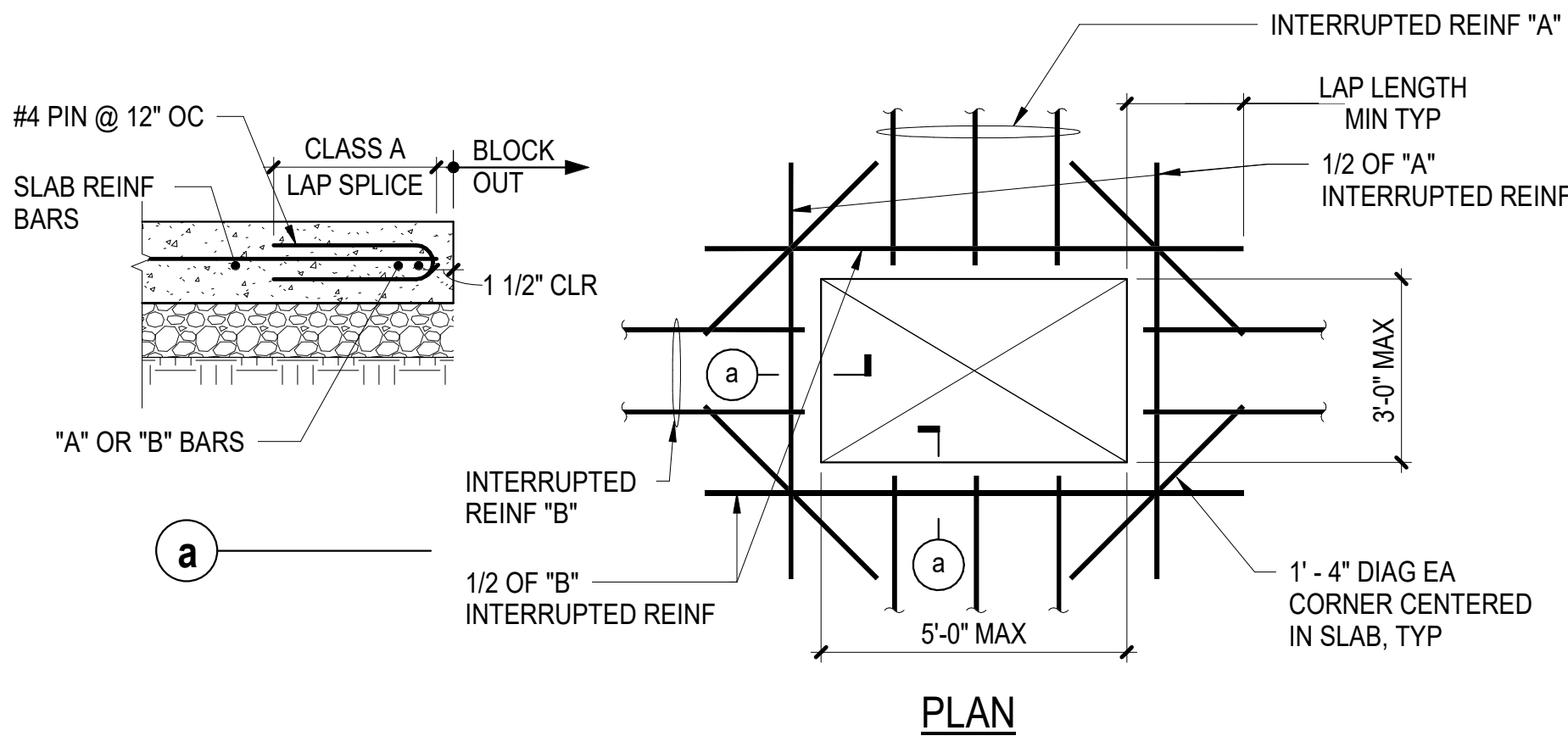
NOTES:

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

7

6 PIPING & CONDUIT THROUGH SLAB

NTS

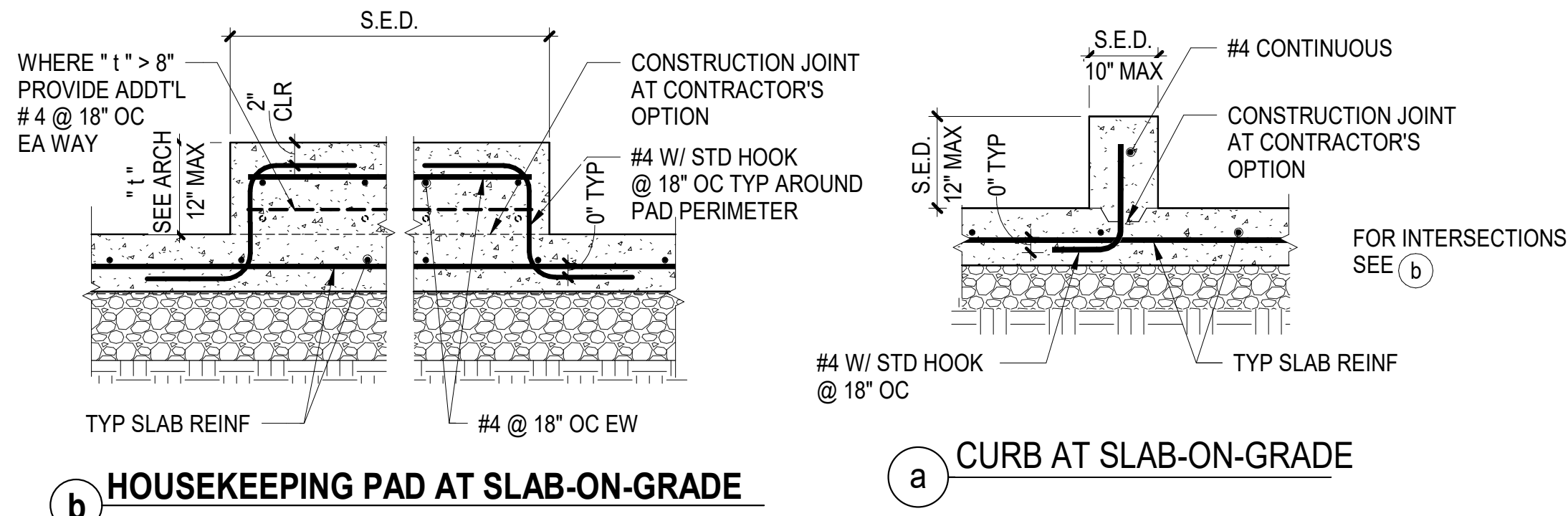


NOTES:

- OPENING SIZE, LOCATION, AND REINFORCING SHALL BE SUBMITTED AS PART OF THE REINFORCING SHOP DRAWING SUBMITTAL FOR REVIEW AND APPROVAL.
- 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.
- WHERE THE DIAGONAL LENGTH IS INTERRUPTED BY AN EDGE OF SLAB, PROVIDE A STANDARD HOOK.
- NOT REQUIRED AT COLUMN LOCATIONS.

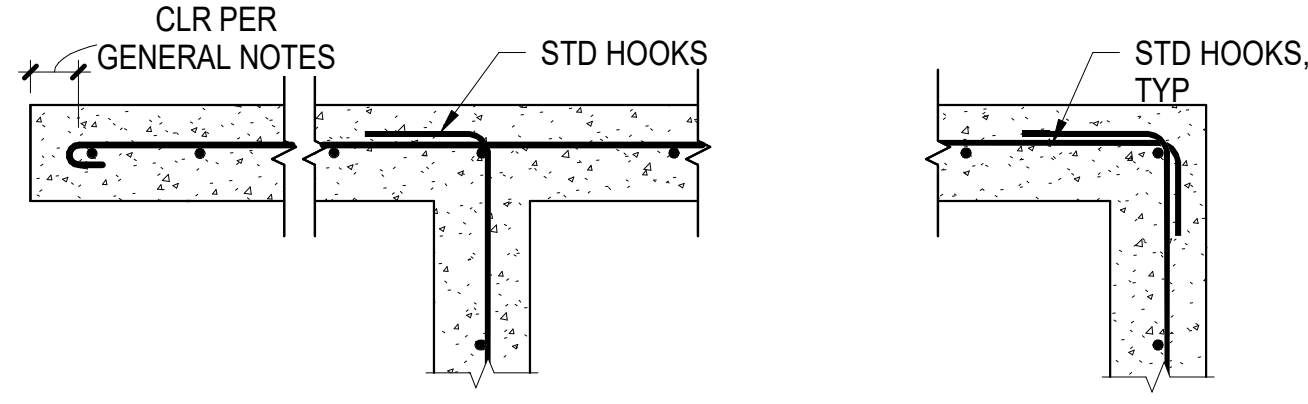
7 OPENING IN SLAB-ON-GRADE

NTS



b HOUSEKEEPING PAD AT SLAB-ON-GRADE

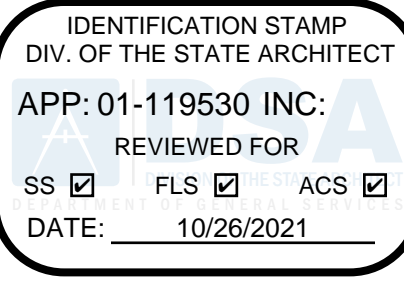
a CURB AT SLAB-ON-GRADE



c CONCRETE CURB INTERSECTIONS

8 CURBS AND HOUSEKEEPING PADS

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PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

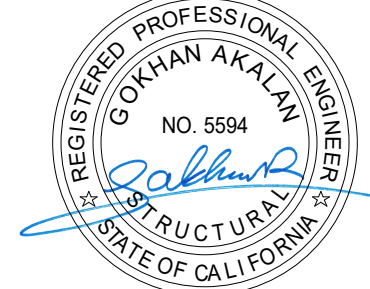
SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

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**BASE  
DESIGN**

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STATE

DSA FILE NUMBER 41-26  
APPL # 01-119530

REVISIONS

| No. | Description | Date |
|-----|-------------|------|
|-----|-------------|------|

MILESTONES

|           |            |
|-----------|------------|
| DD        |            |
| 90% CD    |            |
| DSA SUB   | 05/26/2021 |
| BACKCHECK |            |

SHEET

**TYPICAL  
CONCRETE  
DETAILS**

DATE 05/26/2021

JOB # 2021005.01

SHEET #

**S5.02**



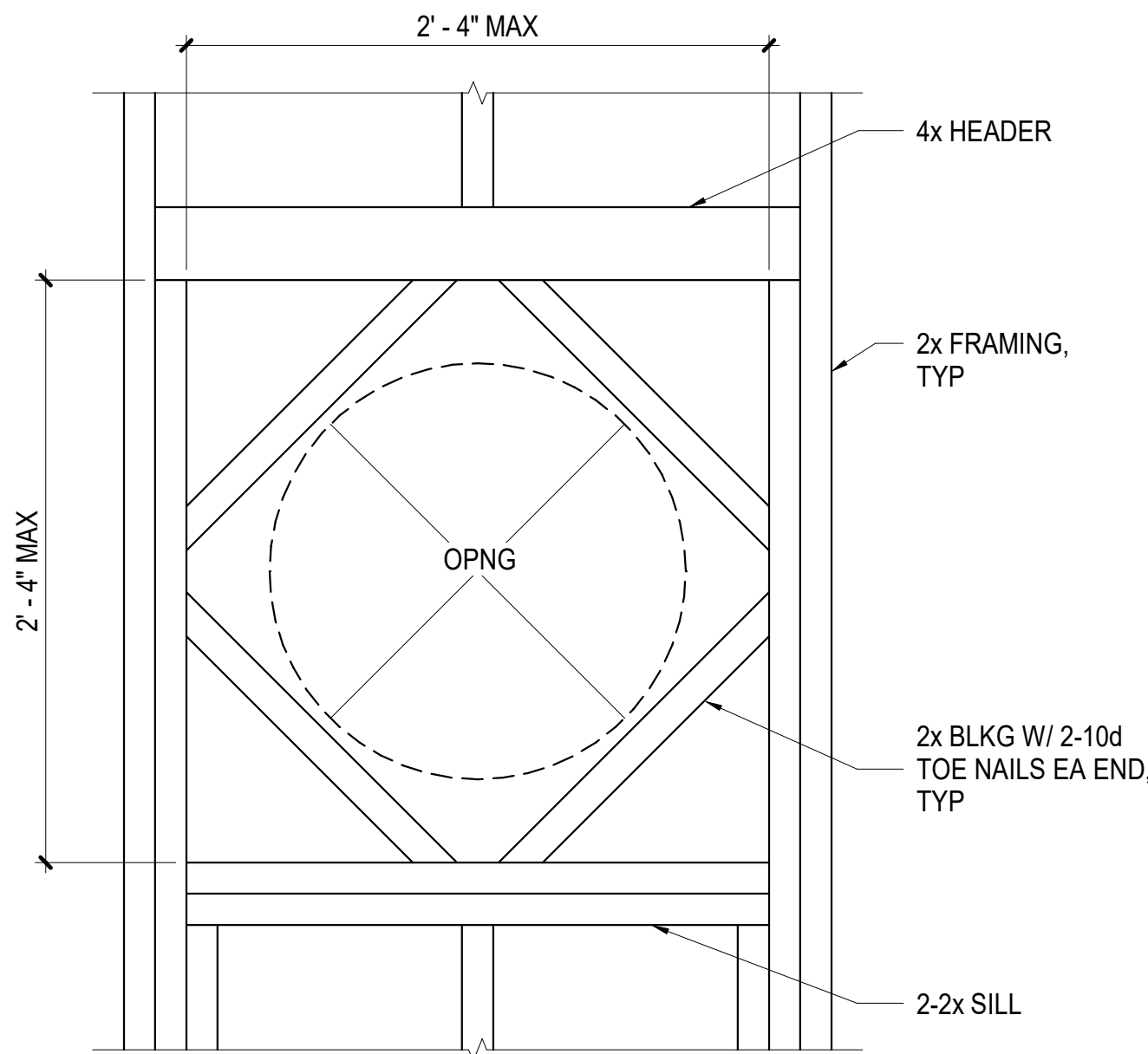
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D:\21115 - SMFCSO HVAC Upgrade\College Park\Structural drawings\21115 - SMFCSO HVAC Upgrades - College Park - R20.rvt

| FASTENING SCHEDULE   |   |   |
|--|---|---|
| DESCRIPTION OF BUILDING ELEMENTS   | NUMBER AND TYPE OF FASTENER   | SPACING AND LOCATION  |
| ROOF   |   |   |
| 1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below | 3-8d common (2 1/2" x 0.131"); or<br>3-10d box (3" x 0.128"); or<br>3-3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown  | Each end, toenail   |
| Blocking between rafters or truss not at the wall top plate, to rafter or truss            | 2-8d common (2 1/2" x 0.131")<br>2-3" x 0.131" nails<br>2-3" 14 gage staples  | Each end, toenail   |
| Flat blocking to truss and web filler  | 2-16 d common (3 1/2" x 0.162")<br>3-3" x 0.131" nails<br>3-3" 14 gage staples  | End nail  |
| 2. Ceiling joists to top plate   | 3-8d common (2 1/2" x 0.131"); or<br>3-10d box (3" x 0.128"); or<br>3-3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown  | Each joist, toenail   |
| 3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust)         | 3-16d common (3 1/2" x 0.163")<br>4-10d box (3" x 0.128"); or<br>4-3" x 0.131" nails; or<br>4-3" 14 gage staples, 7/16" crown   | Face nail   |
| 4. Ceiling joist attached to parallel rafter (heel joint)                                  | Per Table 2308.7.3.1, CBC 2019  | Face nail   |
| 5. Collar tie to rafter  | 3-10d common (3" x 0.148"); or<br>4-10d box (3" x 0.128"); or<br>4-3" x 0.131" nails; or<br>4-3" 14 gage staples, 7/16" crown   | Face nail   |
| 6. Rafter or roof truss to top plate   | 3-10 common (3" x 0.148"); or<br>3-16d box (3 1/2" x 0.135"); or<br>4-10d box (3" x 0.128"); or<br>4-3" x 0.131" nails; or<br>4-3" 14 gage staples, 7/16" crown   | Toenail   |
| 7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam        | 2-16d common (3 1/2" x 0.162"); or<br>3-10d box (3 1/2" x 0.128"); or<br>3-3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown; or<br>3-10d common (3 1/2" x 0.148"); or<br>4-16d box (3 1/2" x 0.135"); or<br>4-10d box (3" x 0.128"); or<br>4-3" x 0.131" nails; or<br>4-3" 14 gage staples, 7/16" crown | End nail<br><br>Toenail   |
| WALL   |   |   |
| 8. Stud to stud (not at braced wall panels)  | 16d common (3 1/2" x 0.162");<br><br>10d box (3" x 0.128"); or<br>3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown  | 24" o.c. face nail<br><br>16" o.c. face nail  |
| 9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)    | 16d common (3 1/2" x 0.162"); or<br>16d box (3 1/2" x 0.135"); or<br>3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown   | 16" o.c. face nail<br>12" o.c. face nail<br>12" o.c. face nail                              |
| 10. Built-up header (2" to 2" header)  | 16d common (3 1/2" x 0.162"); or<br>16d box (3 1/2" x 0.135")   | 16" o.c. each edge, face nail<br>12" o.c. each edge, face nail                              |
| 11. Continuous header to stud  | 4-8d common (2 1/2" x 0.131"); or<br>4-10d box (3" x 0.128")  | Toenail   |
| 12. Top plate to top plate   | 16d common (3 1/2" x 0.162"); or<br><br>10d box (3" x 0.128"); or<br>3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown   | 16" o.c. face nail<br><br>12" o.c. face nail  |
| 13. Top plate to top plate, at end joints  | 8-16d common (3 1/2" x 0.162"); or<br>12-10d box (3" x 0.128"); or<br>12-3" x 0.131" nails; or<br>12-3" 14 gage staples, 7/16" crown  | Each side of end joint, face nail<br>(minimum 24" lap splice length each side of end joint) |
| 14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)   | 16d common (3 1/2" x 0.163"); or<br>16d box (3 1/2" x 0.135"); or<br>3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown   | 16" o.c. face nail<br>12" o.c. face nail  |
| 15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels         | 2-16d common (3 1/2" x 0.162"); or<br>3-16d box (3 1/2" x 0.135"); or<br>4-3" x 0.131" nails; or<br>4-3" 14 gage staples, 7/16" crown   | 16" o.c. face nail  |
| 16. Stud to top or bottom plate  | 4-8d common (2 1/2" x 0.131"); or<br>4-10d box (3" x 0.128"); or<br>4-3" x 0.131" nails; or<br>4-3" 14 gage staples, 7/16" crown; or<br><br>2-16d common (3 1/2" x 0.162"); or<br>3-10d box (3" x 0.128"); or<br>3-3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown                                     | Toenail<br><br>End nail   |
| 17. Top plates, laps at corners and intersections  | 2-16d common (3 1/2" x 0.162"); or<br>3-10d box (3" x 0.128"); or<br>3-3" x 0.131" nails; or<br>3-3" 14 gage staples, 7/16" crown   | Face nail   |
| 18. 1" brace to each stud and plate  | 2-8d common (2 1/2" x 0.131"); or<br>2-10d box (3" x 0.128"); or<br>2-3" x 0.131" nails; or<br>2-3" 14 gage staples, 7/16" crown  | Face nail   |
| 19. 1" x 6" sheathing to each bearing  | 2-8d common (2 1/2" x 0.131"); or<br>2-10d box (3" x 0.128")  | Face nail   |
| 20. 1" x 8" and wider sheathing to each bearing  | 3-8d common (2 1/2" x 0.131"); or<br>3-10d box (3" x 0.128")  | Face nail   |

- For St: 1 inch = 25.4 mm.**  
a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. Nails for wall sheathing are permitted to be common, box or casing.  
b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).  
c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.  
d. RRSR-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

## 12 NAILING SCHEDULE

NTS

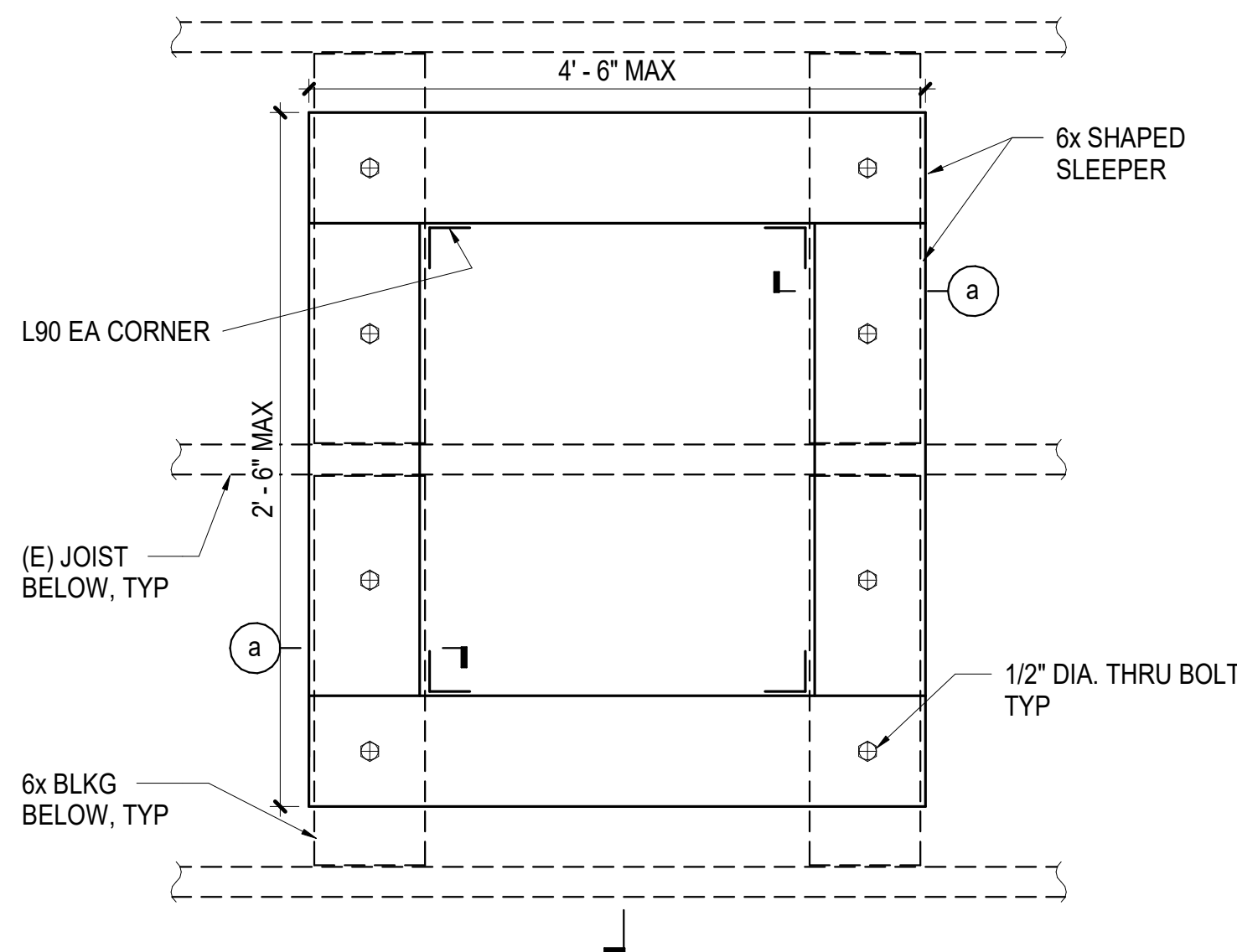
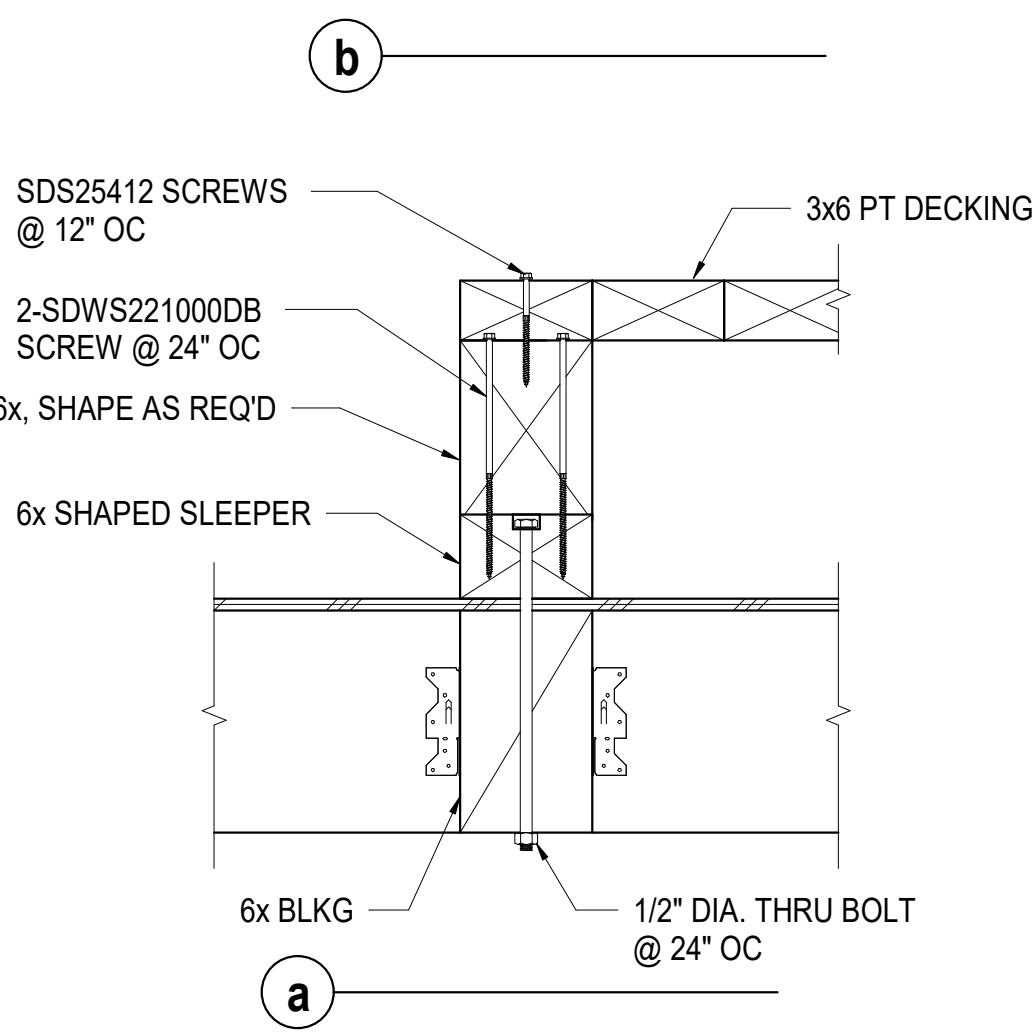
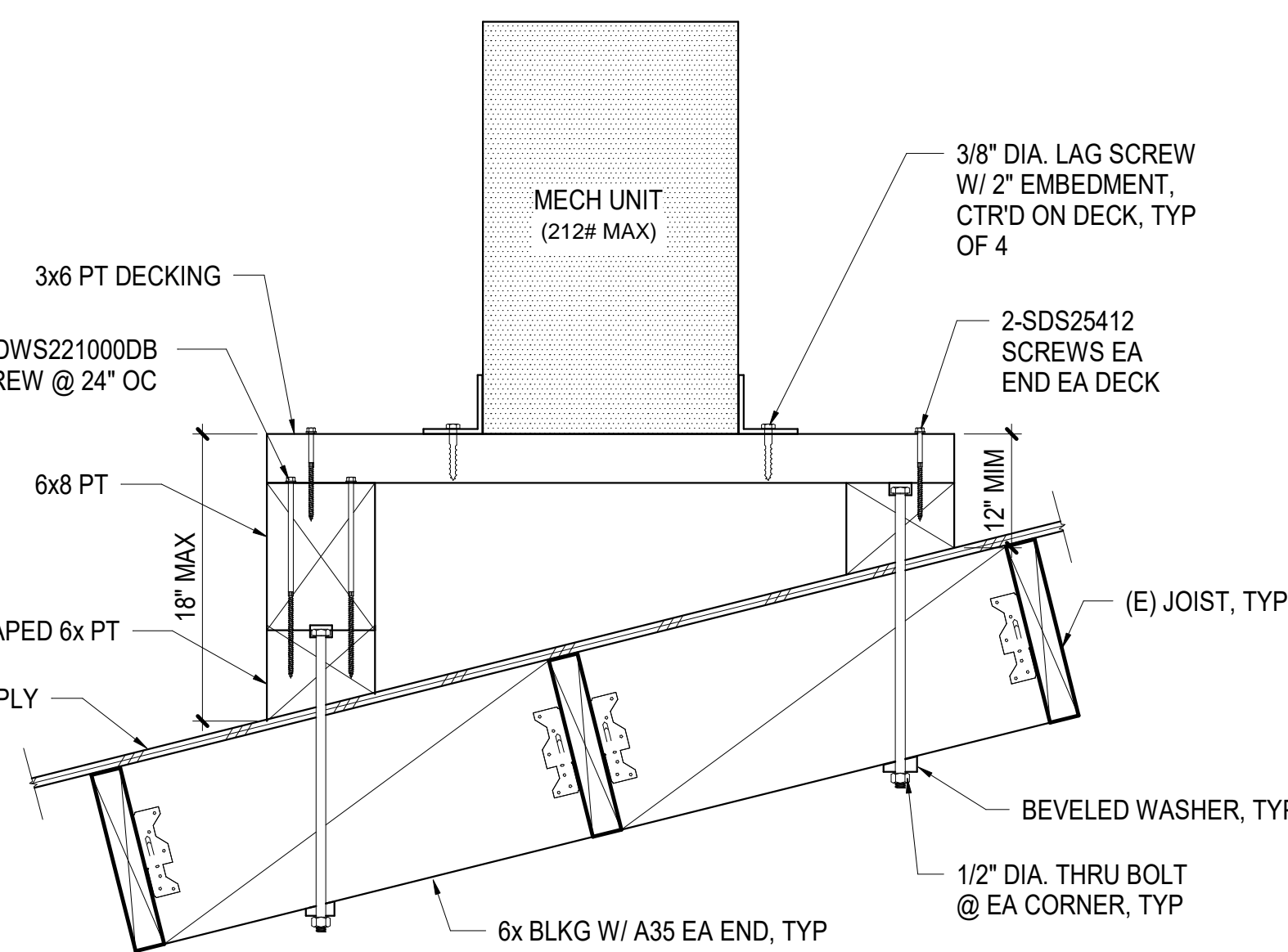


- NOTES:  
1. FOR INFO NOT SHOWN OR NOTED, SEE

5

## 9 FRAMING DETAIL AT ROUND OPENING

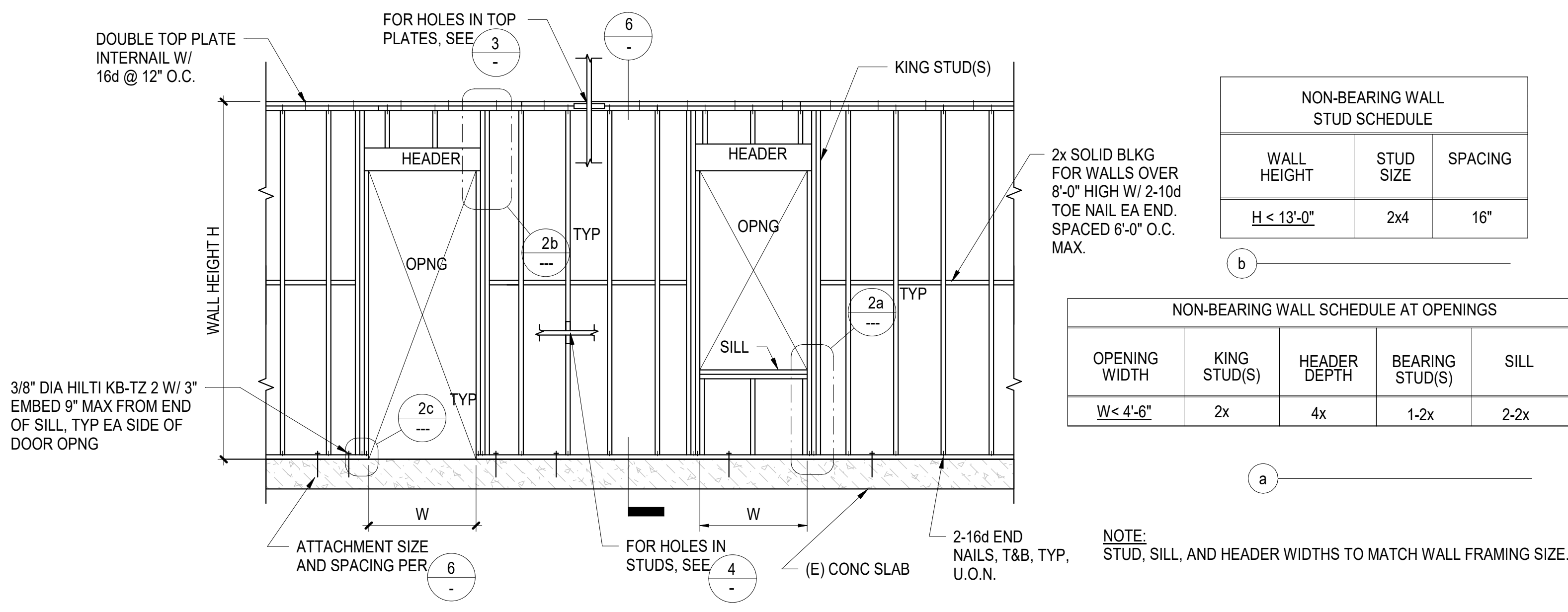
1 1/2" = 1'-0"



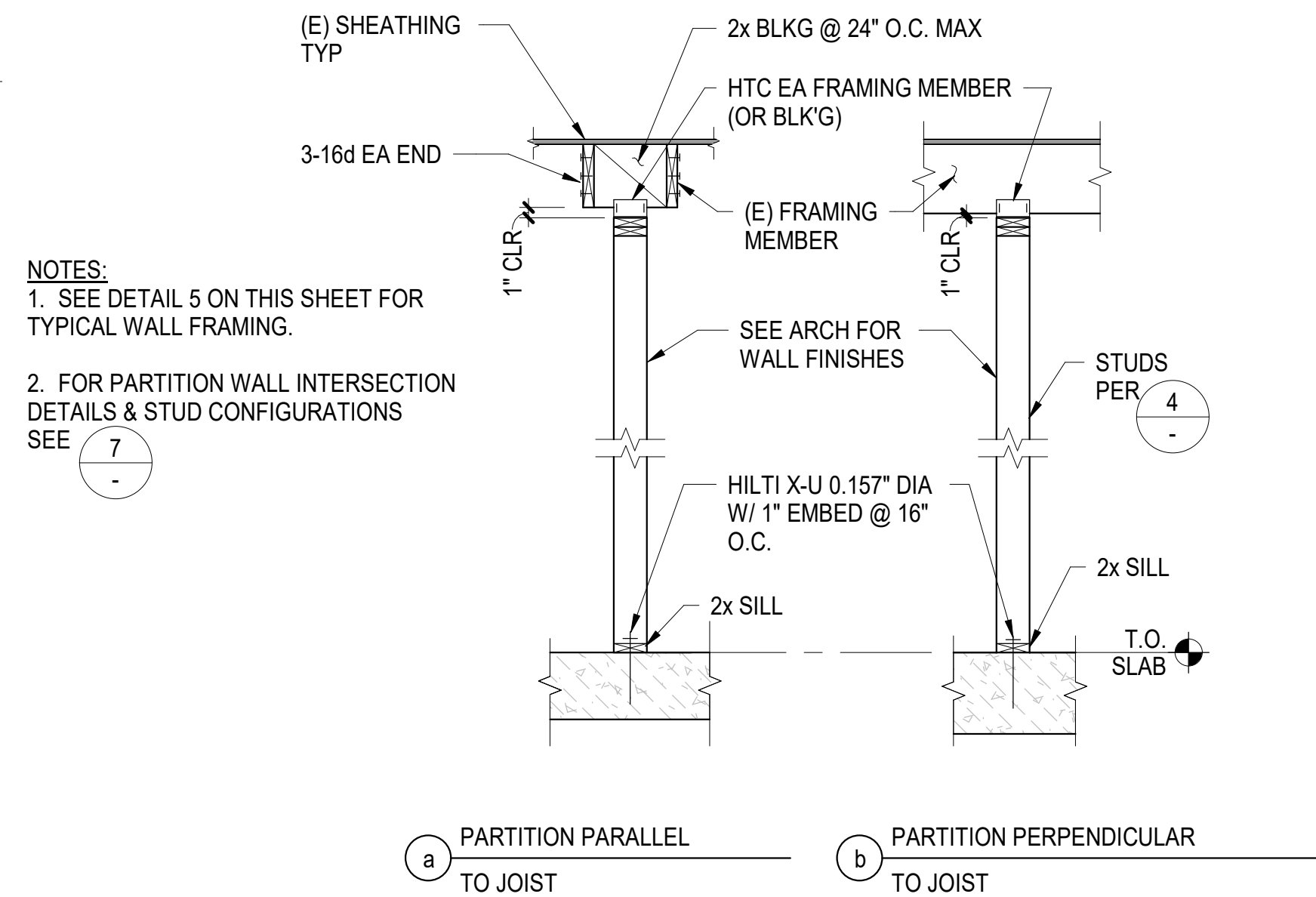
PLAN VIEW

## 11 MECH UNIT PLATFORM FRAMING DETAIL

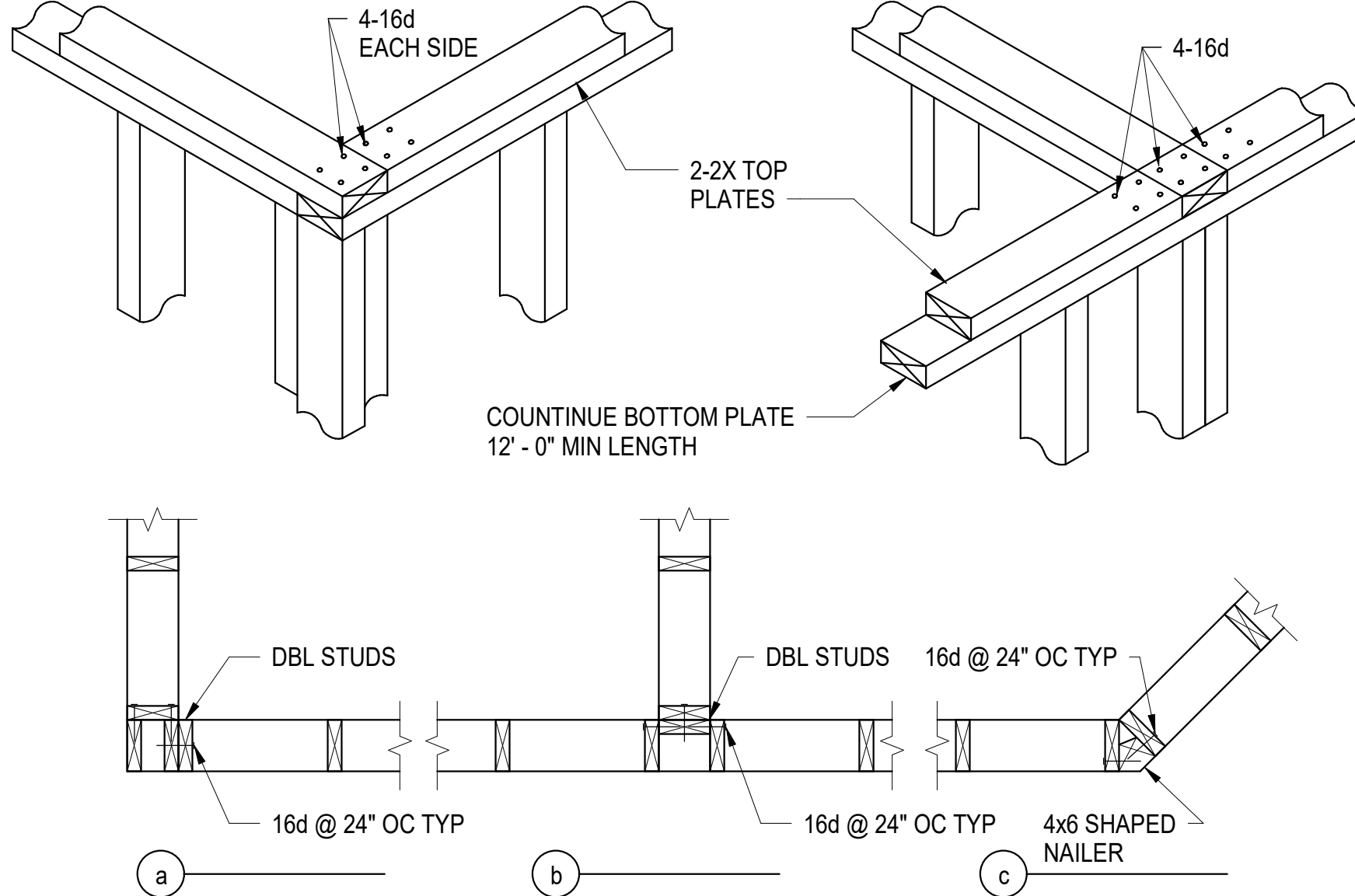
1 1/2" = 1'-0"



## 5 TYPICAL INTERIOR NON-BEARING WALL FRAMING



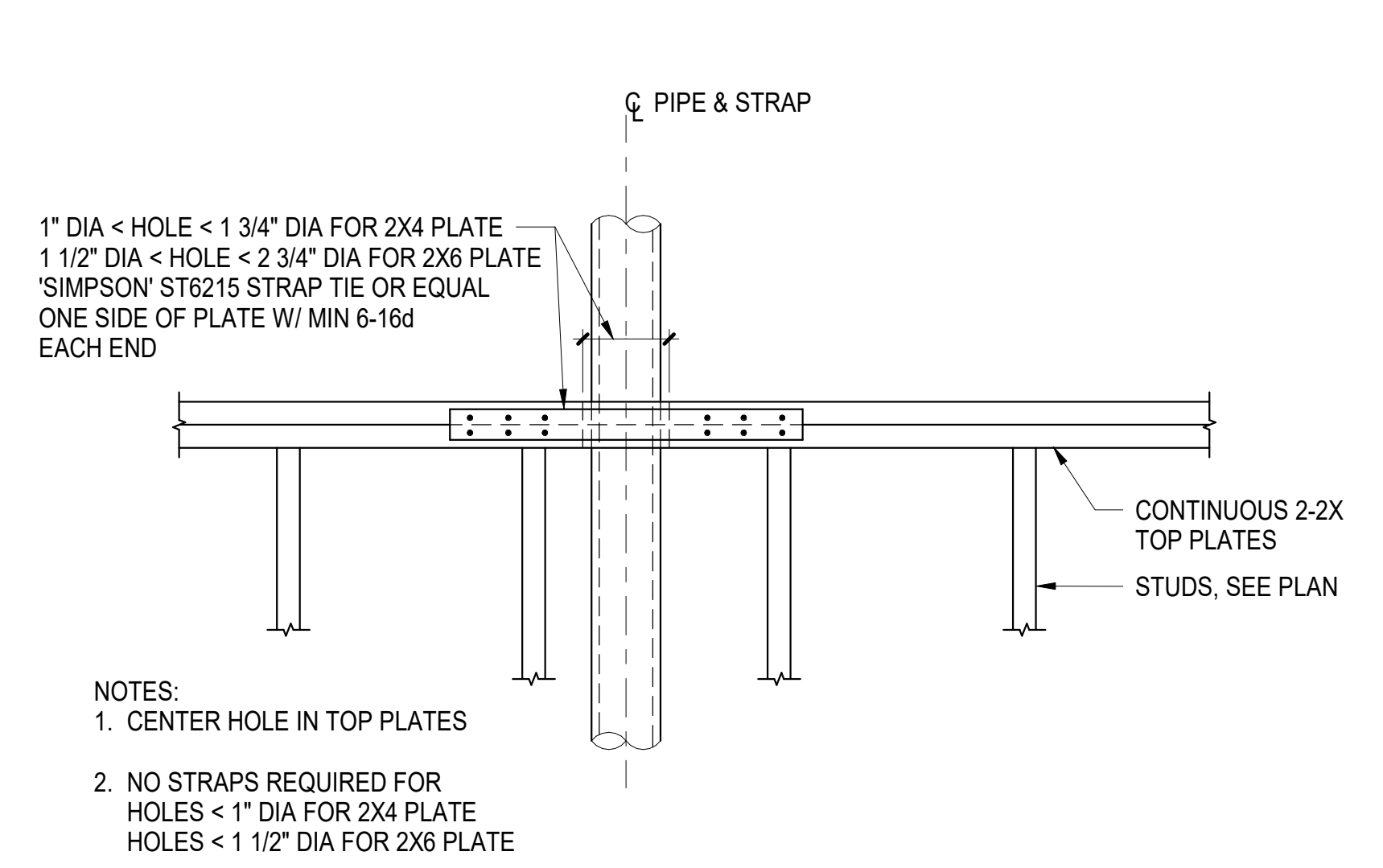
## 6 NON-BEARING WALL PARTITION



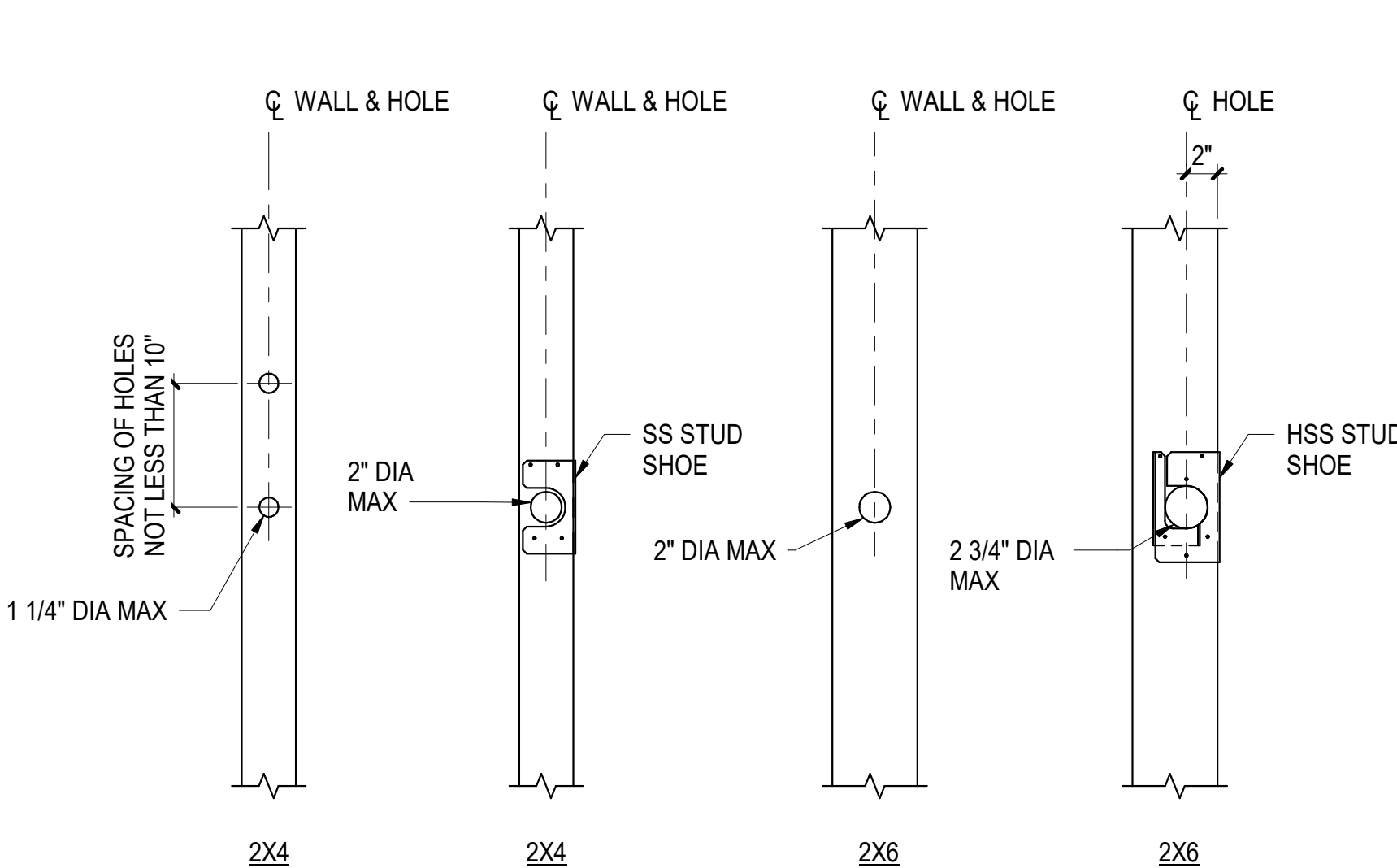
## 7 WALL INTERSECTIONS

NTS

## 2 WALL OPENING

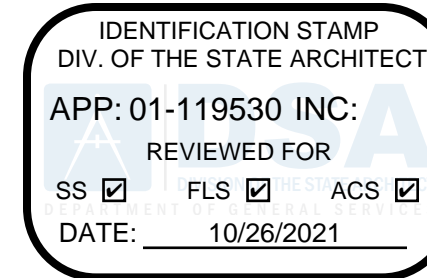


## 3 TOP PLATE PENETRATIONS



## 4 PENETRATIONS IN STUDS

NTS



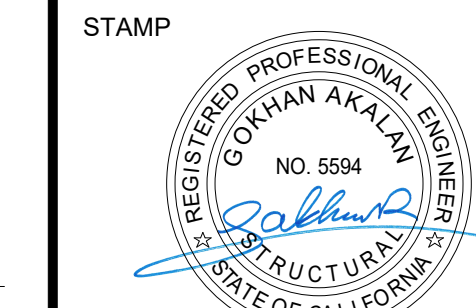
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STATE  
DSA FILE NUMBER 41-26  
APPL # 01-119530

REVISIONS  
No. Description Date

MILESTONES  
DD  
90% CD  
DSA SUB 05/26/2021  
BACKCHECK

SHEET  
**FRAMING DETAILS  
AND NAILING  
SCHEDULE**

DATE 05/26/2021  
JOB # 2021005.01  
SHEET #

**S8.01**







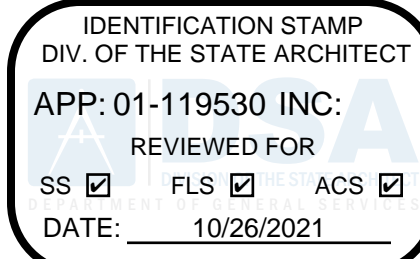
| AIR DISTRIBUTION SCHEDULE |              |           |                         |             |                    |       |
|---------------------------|--------------|-----------|-------------------------|-------------|--------------------|-------|
| TAG                       | MANUFACTURER | MODEL NO. | DESCRIPTION             | BORDER TYPE | MOUNTING<br>DETAIL | NOTES |
| HSR-1                     | TITUS        | 350RL     | HIGH SIDEWALL<br>RETURN | TYPE 1      | 8MP6.01            | 1,2   |

1. PRIME AND PAINT PER ARCHITECT'S INSTRUCTIONS. REGISTER COLOR SELECTED BY ARCHITECT.  
2. PROVIDE WITH AIRSAN COMPACT DUCT SILENCER.

| CLASSROOM SPLIT SYSTEM HEAT PUMPS SCHEDULE |                                 |               |              |              |                      |                      |                |                    |                    |      |      |      |            |         |      |               |                    |                  |                  |
|--|---------------------------------|---------------|--------------|--------------|----------------------|----------------------|----------------|--------------------|--------------------|------|------|------|------------|---------|------|---------------|--------------------|------------------|------------------|
| TAG  | MANUFACTURER<br>BASIS OF DESIGN | MODEL         |              | LOCATION     | COOLING<br>TOTAL MBH | HEATING<br>TOTAL MBH | AIRFLOW<br>CFM | OUTSIDE<br>AIR CFM | REFRIGERANT PIPING |      | SEER | HSPF | ELECTRICAL |         |      | WEIGHT<br>LBS | MOUNTING<br>DETAIL | NOTES            |                  |
|  |                                 |               |              |              |                      |                      |                |                    | LIQUID             | GAS  |      |      | V / PH     | MCA     | MOCP |               |                    |                  |                  |
| FC-7                                       | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 7  | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-7                                       | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-7A                                      | SAMSUNG                         | AC054KNZDCHAA |              | MECH 207     | 54                   | 60                   | 1160           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 2IMP6.01           | 2, 3, 4, 6, 7, 8 |                  |
| HP-7A                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-7B                                      | SAMSUNG                         | AC054KNZDCHAA |              | MECH 207     | 54                   | 60                   | 1160           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 2IMP6.01           | 2, 3, 4, 6, 7, 8 |                  |
| HP-7B                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-8                                       | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 8  | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-8                                       | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-9                                       | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 9  | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-9                                       | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-10                                      | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 10 | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-10                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-11                                      | SAMSUNG                         | AC054KNZDCHAA | WING 3       | CLASSROOM 11 | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-11                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-12                                      | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 12 | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-12                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-13                                      | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 13 | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-13                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-14                                      | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 14 | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-14                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-15                                      | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 15 | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-15                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-16                                      | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 16 | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-16                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-17                                      | SAMSUNG                         | AC054KNZDCHAA |              | CLASSROOM 17 | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-17                                      | SAMSUNG                         | AC054KXADCHAA |              | ROOF         |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-18                                      | SAMSUNG                         | AC054KNZDCHAA |              | WING 4       | CLASSROOM 18         | 54                   | 60             | 1155               | 450                | 3/8" | 3/4" | -    | -          | NOTE 8  |      |               | 164                | 1MP6.01          | 2, 3, 4, 6, 7, 8 |
| HP-18                                      | SAMSUNG                         | AC054KXADCHAA |              |              | ROOF                 |                      |                | -                  | -                  | 3/8" | 3/4" | 17.1 | 9.0        | 208 / 1 | 42   | 70            | 212                | 3MP6.01          | 1                |
| FC-19                                      | SAMSUNG                         | AC054KNZDCHAA | CLASSROOM 19 |              | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-19                                      | SAMSUNG                         | AC054KXADCHAA | ROOF         |              |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-20                                      | SAMSUNG                         | AC054KNZDCHAA | CLASSROOM 20 |              | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-20                                      | SAMSUNG                         | AC054KXADCHAA | ROOF         |              |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-21                                      | SAMSUNG                         | AC054KNZDCHAA | CLASSROOM 21 |              | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-21                                      | SAMSUNG                         | AC054KXADCHAA | ROOF         |              |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-22                                      | SAMSUNG                         | AC054KNZDCHAA | CLASSROOM 22 |              | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-22                                      | SAMSUNG                         | AC054KXADCHAA | ROOF         |              |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-23                                      | SAMSUNG                         | AC054KNZDCHAA | CLASSROOM 23 |              | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-23                                      | SAMSUNG                         | AC054KXADCHAA | ROOF         |              |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-24A                                     | SAMSUNG                         | AC054KNZDCHAA | CLASSROOM 24 |              | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-24A                                     | SAMSUNG                         | AC054KXADCHAA | ROOF         |              |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |
| FC-24B                                     | SAMSUNG                         | AC054KNZDCHAA | CLASSROOM 24 |              | 54                   | 60                   | 1155           | 450                | 3/8"               | 3/4" | -    | -    | NOTE 8     |         |      | 164           | 1MP6.01            | 2, 3, 4, 6, 7, 8 |                  |
| HP-24B                                     | SAMSUNG                         | AC054KXADCHAA | ROOF         |              |                      |                      | -              | -                  | 3/8"               | 3/4" | 17.1 | 9.0  | 208 / 1    | 42      | 70   | 212           | 3MP6.01            | 1                |                  |

5. SPLIT SYSTEM SHALL BE ABLE TO OPERATE AT 94% HEATING CAPACITY DOWN TO 32°F OUTDOOR AMBIENT TEMPERATURE.  
6. CFM BASED ON 0.55 ESP.  
3. PROVIDE WITH SAMSUNG MM-A0UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER.  
4. PROVIDE DELTA CONTROLS THERMOSTAT WITH CO2 SENSOR. SEE MP5.01 FOR CONTROLS.

5. NOT USED.  
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.



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DSA FILE NUMBER

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APPL #

01-119530

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No. Description Date

MILESTONES

DD

90% CD

DSA SUB

05/26/2021

BACKCHECK

09/30/2021

SHEET

SCHEDULES-  
MECHANICAL

DATE

09/30/2021

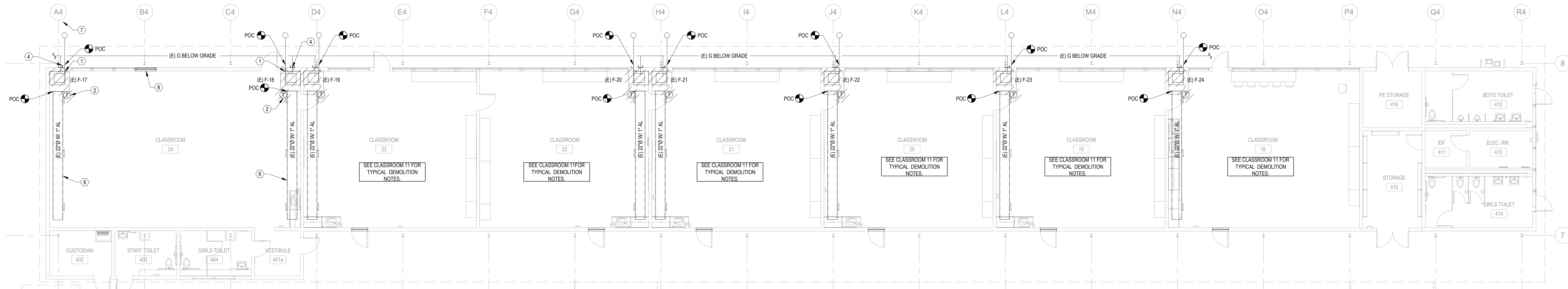
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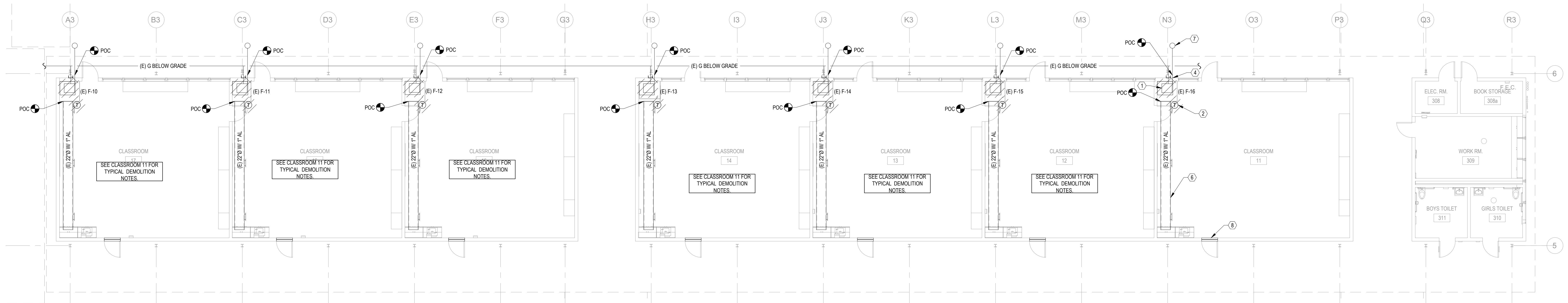
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MP0.02

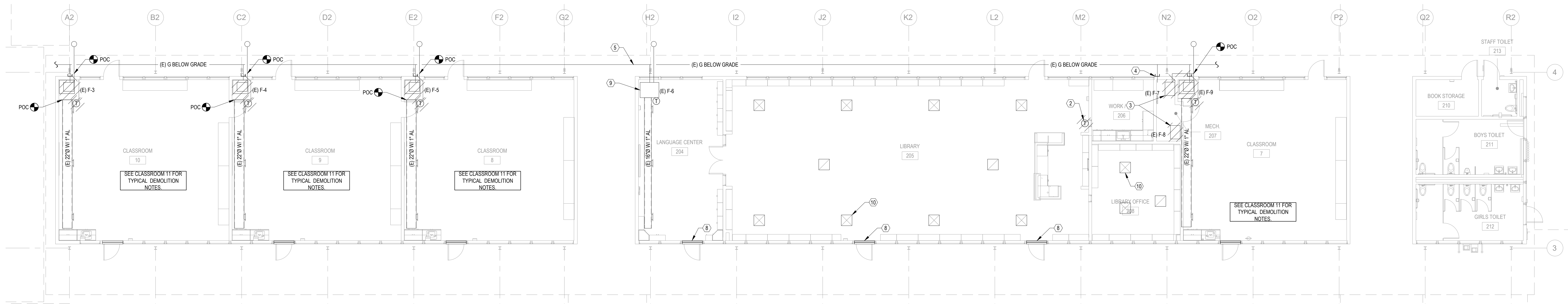




1 FLOOR PLAN - WING 4 - DEMO - MECHANICAL & PLUMBING  
MP2.01 SCALE: 1/8" = 1'-0"

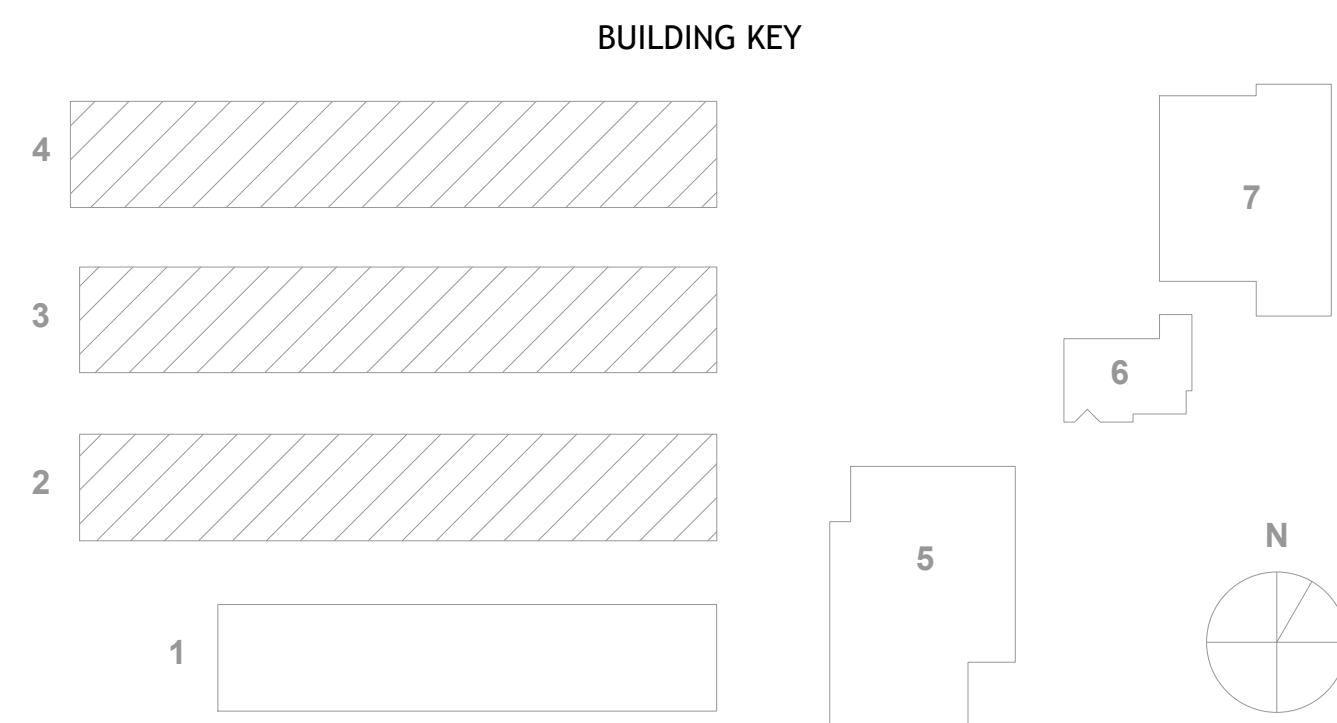


2 FLOOR PLAN - WING 3 - DEMO - MECHANICAL & PLUMBING  
MP2.01 SCALE: 1/8" = 1'-0"



3 FLOOR PLAN - WING 2 - DEMO - MECHANICAL & PLUMBING  
MP2.01 SCALE: 1/8" = 1'-0"

| (E) DEMOLITION SHEET NOTES  | GENERAL NOTES  |
|---|--|
| 1. REMOVE (E) FURNACE ENCLOSURE, FURNACE, AND SUPPLY DUCT BACK TO POC, TYP OF (19).   | 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.                      |
| 2. REMOVE (E) THERMOSTAT AND WIRING BACK TO (E) FURNACE, TYP OF (21). SALVAGE (E) THERMOSTAT AND UNIT CONTROLLERS. 30% OF THE EQUIPMENT NEEDS TO BE RETURNED TO THE DISTRICT. | 2. 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. |
| 3. REMOVE (E) FURNACE, (E) DUCTWORK TO REMAIN, TYP OF (2).  |  |
| 4. REMOVE (E) GAS BRANCH LINE. CAP (E) BRANCH LINE TIGHT TO WALL.   |  |
| 5. (E) GAS MAIN TO REMAIN, TYP.   |  |
| 6. (E) DUCTWORK AND DUCT SUPPORTS TO REMAIN, TYP.   |  |
| 7. (E) CD PIPING AND DRY WELL TO REMAIN, TYP.   |  |
| 8. (E) RELIEF LOUVER TO REMAIN, TYP.  |  |
| 9. (E) FURNACE, (E) FURNACE ENCLOSURE, (E) THERMOSTAT, AND (E) DUCTWORK TO REMAIN.  |  |
| 10. ALL (E) DUCTWORK AND REGISTERS TO REMAIN IN LIBRARY AND LIBRARY OFFICES, TYP.   |  |



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 01-119530 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 10/26/2021

**aedis**  
architects

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

PROJECT  
**COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT**

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT  
DEC 08/NOV 21/03  
**CYPRESS**  
Engineering Group  
HVAC, Plumbing, Fire Protection  
Building Envelope, Mechanical  
Environmental Compliance  
Training & Technical Support  
931 E. 1st St., Suite A3  
Menlo Park, CA 94025  
cypresseng.com

STAMP  
REGISTERED PROFESSIONAL ENGINEER  
MECHANICAL  
STATE OF CALIFORNIA  
No. M31059  
EXP. JUNE 30, 2023

STATE  
DSA FILE NUMBER 41-26  
APPL. # 01-119530

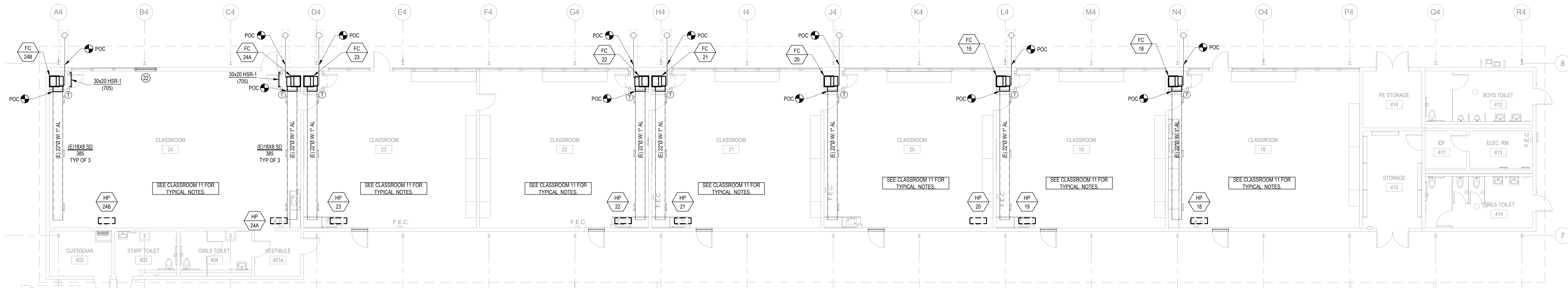
REVISIONS  
No. Description Date

MILESTONES  
DD  
90% CD  
DSA SUB 05/26/2021  
BACKCHECK 09/30/2021

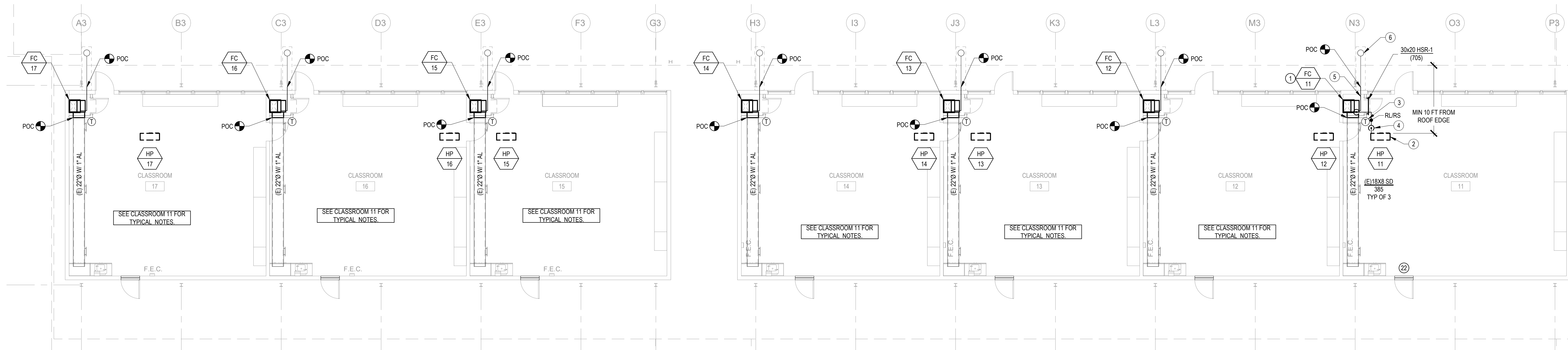
SHEET  
**FLOOR PLAN -  
DEMO - WING 2, 3,  
AND 4 -  
MECHANICAL &  
PLUMBING**

DATE 09/30/2021  
JOB # 2021005.01  
SHEET #  
**MP2.01**

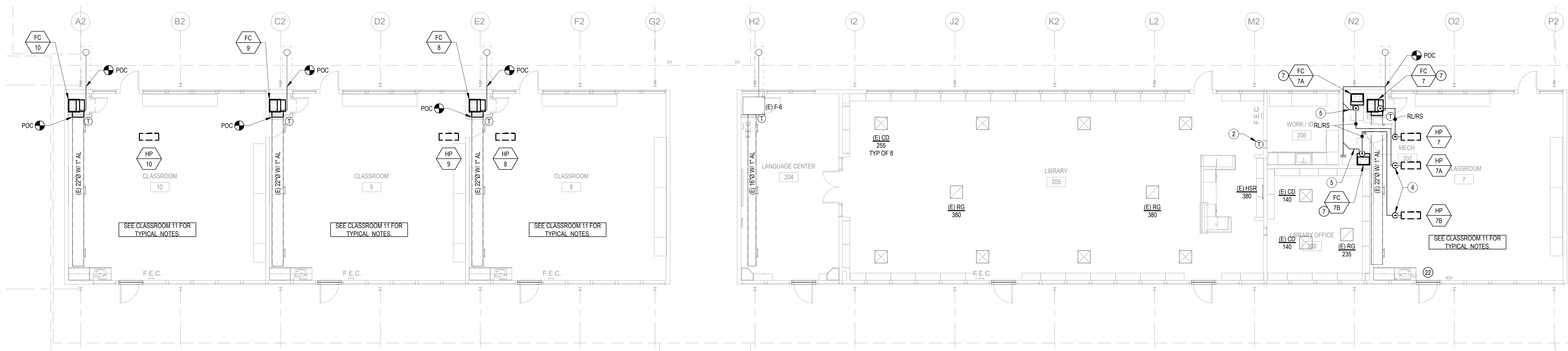




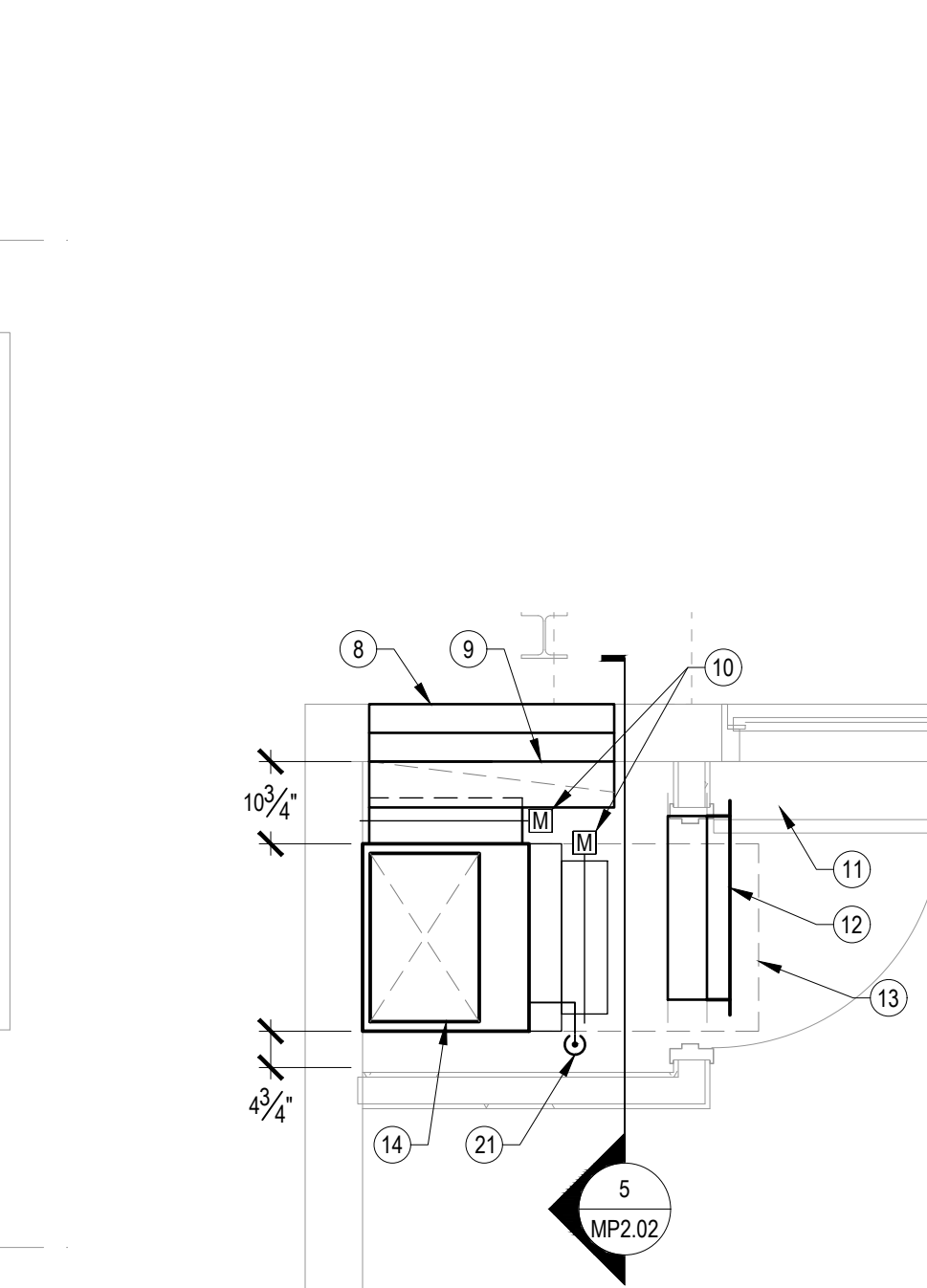
**1 FLOOR PLAN - WING 4 - NEW - MECHANICAL & PLUMBING**  
MP2.02 SCALE: 1/8" = 1'-0"



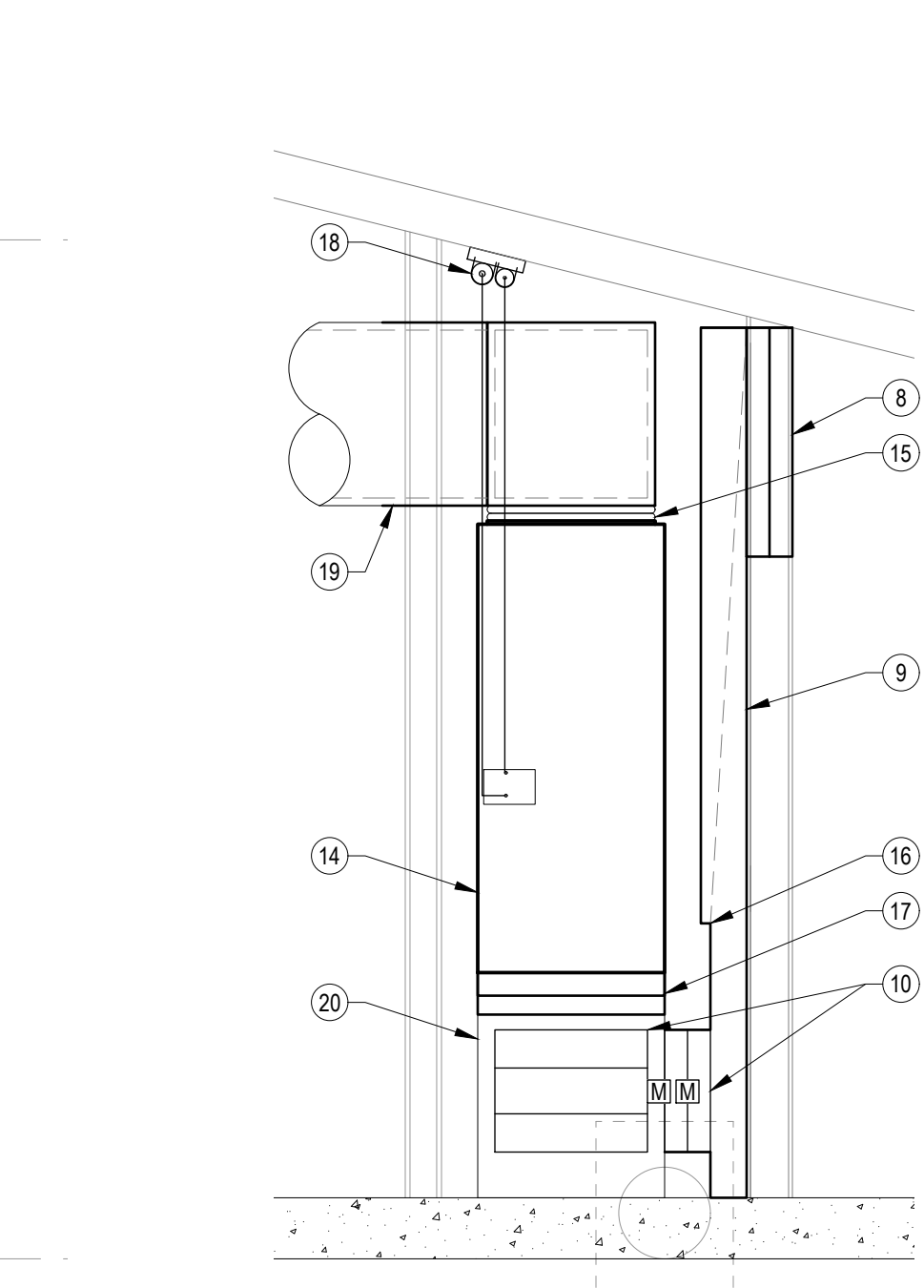
**2 FLOOR PLAN - WING 3 - NEW - MECHANICAL & PLUMBING**  
MP2.02 SCALE: 1/8" = 1'-0"



**3 FLOOR PLAN - WING 2 - NEW - MECHANICAL & PLUMBING**  
MP2.02 SCALE: 1/8" = 1'-0"



**4 FLOOR PLAN - ENCLOSURE**  
MP2.02 SCALE: NONE



**5 SECTION - ENCLOSURE**  
MP2.02 SCALE: NONE

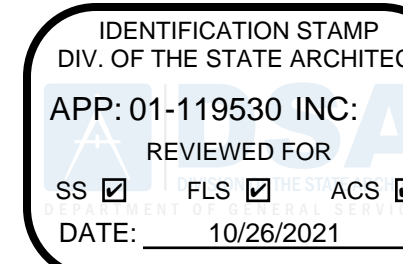
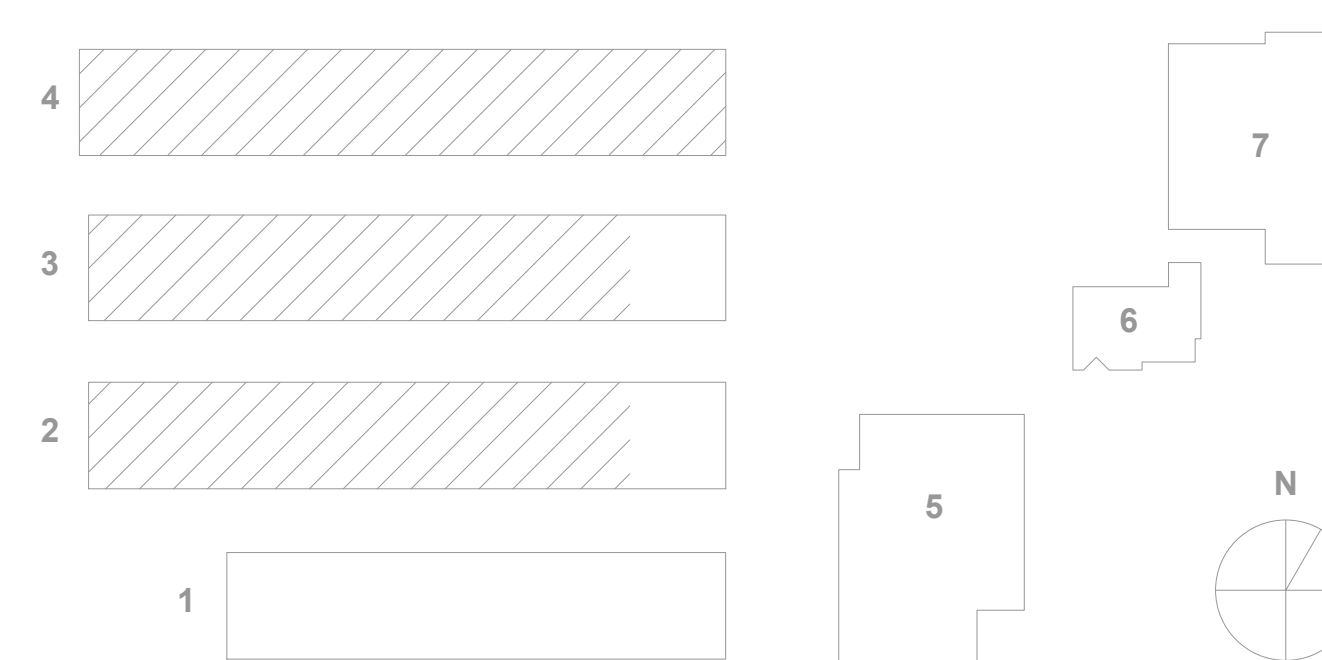
**NEW SHEET NOTES**

- INSTALL FAN COIL. PROVIDE SUPPLY PLENUM ABOVE FAN COIL. INSTALL SUPPLY DUCT FROM SUPPLY PLENUM AND CONNECT TO (E) SUPPLY DUCT. SEE PLANS FOR SIZE, TYP OF (19). SEE 4/MP2.02 AND 5/MP2.02 FOR FAN COIL INSTALLATION. SEE 1/MP6.01 FOR FAN COIL MOUNTING.
- INSTALL HEAT PUMP ON ROOF, MIN 10 FT FROM EDGE OF ROOF, TYP. OF (21). SEE 3/MP6.01 FOR MOUNTING.
- INSTALL THERMOSTAT ON WALL AND WIRE TO FAN COIL.
- INSTALL REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL, TYP. MINIMIZE EXPOSED PIPING ON ROOF. PENETRATE ROOF WITHIN 30" OF HEAT PUMP. RUN PIPES CONCEALED ABOVE T-BAR CEILING TO FAN COIL ENCLOSURE. PENETRATE FAN COIL ENCLOSURE WALL ABOVE CEILING. ENSURE REFRIGERANT PIPING DOES NOT BLOCK FILTER ACCESS.
- INSTALL 3/4" CD PIPING FROM FAN COIL. CONNECT TO (E) CD PIPE AT POC OUTSIDE FAN COIL ENCLOSURE.
- (E) CD DRYWELL, TYP.
- INSTALL FAN COIL. PROVIDE RETURN PLENUM BELOW FAN COIL. SEE 2/MP6.01. CONNECT RETURN AND SUPPLY DUCT TO (E) DUCTS IN MECHANICAL ROOM. TYP OF (2).
- (E) OUTSIDE AIR LOUVER.
- 6"x32" OUTSIDE AIR DUCT DOWN TO MIXING PLENUM.
- 20"x16" MOTORIZED DAMPER (LOW VOLTAGE).
- 30" FULL HEIGHT DOOR. SEE ARCHITECTS DRAWINGS.
- 30"x20" RETURN REGISTER HSR-1 ABOVE ENCLOSURE DOOR. INSTALL WITH GRILLE SILENCER.
- CLEARANCE REQUIRED FOR FILTER REPLACEMENT.
- FAN COIL. SEE PLANS FOR LOCATION.
- FLEX DUCT AT CONNECTION TO UNIT.
- DUCT TRANSITION TO ALLOW DAMPER CONNECTION.
- FILTER BOX THAT CAN FIT 4" OR 2" FILTER.
- REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL. SEE 7/MP6.01 FOR PIPE SUPPORT.

**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, (E) GAS MAINS ARE NOT SHOWN ON THIS PLAN. SEE MP2.01.
- PAIN ALL EXPOSED DUCTWORK, AND REGISTERS TO MATCH EXISTING.
- SEE DETAIL 5/MP6.01 FOR PIPE SUPPORT ON ROOF.
- CLEAN ALL (E) DUCTWORK AND REGISTERS PER SPECIFICATION 23 01 30.

**BUILDING KEY**



**aedis**  
architects

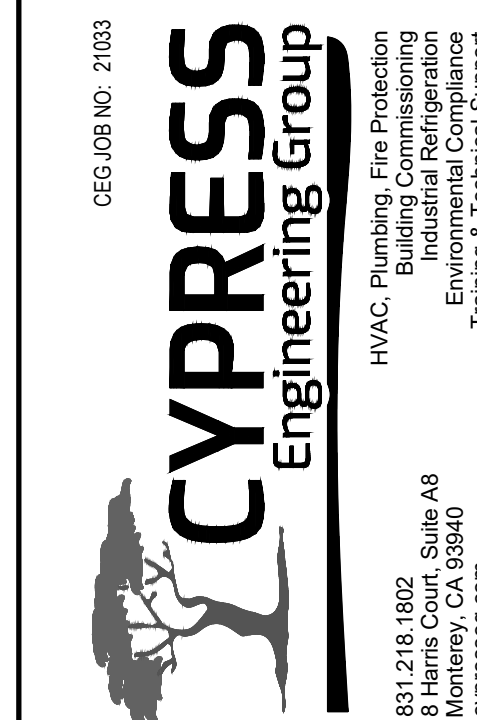
www.aedisarchitects.com  
387 S. 1st Street, Suite 300  
San Jose, CA 95113  
tel: (408)-300-5160  
fax: (408)-300-5121

PROJECT

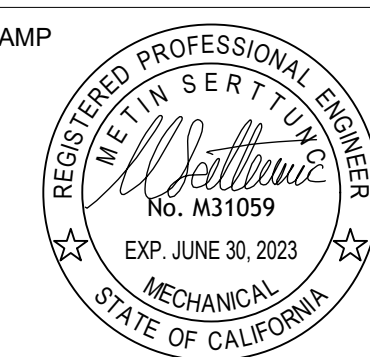
**COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT**

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT



STAMP



STATE

DSA FILE NUMBER 41-26

APPL # 01-119530

REVISIONS

No. Description Date

MILESTONES

DD  
90% CD  
DSA SUB 05/26/2021  
BACKCHECK 09/30/2021

SHEET

**FLOOR PLAN -  
NEW - WINGS 2, 3  
& 4 - MECHANICAL  
& PLUMBING**

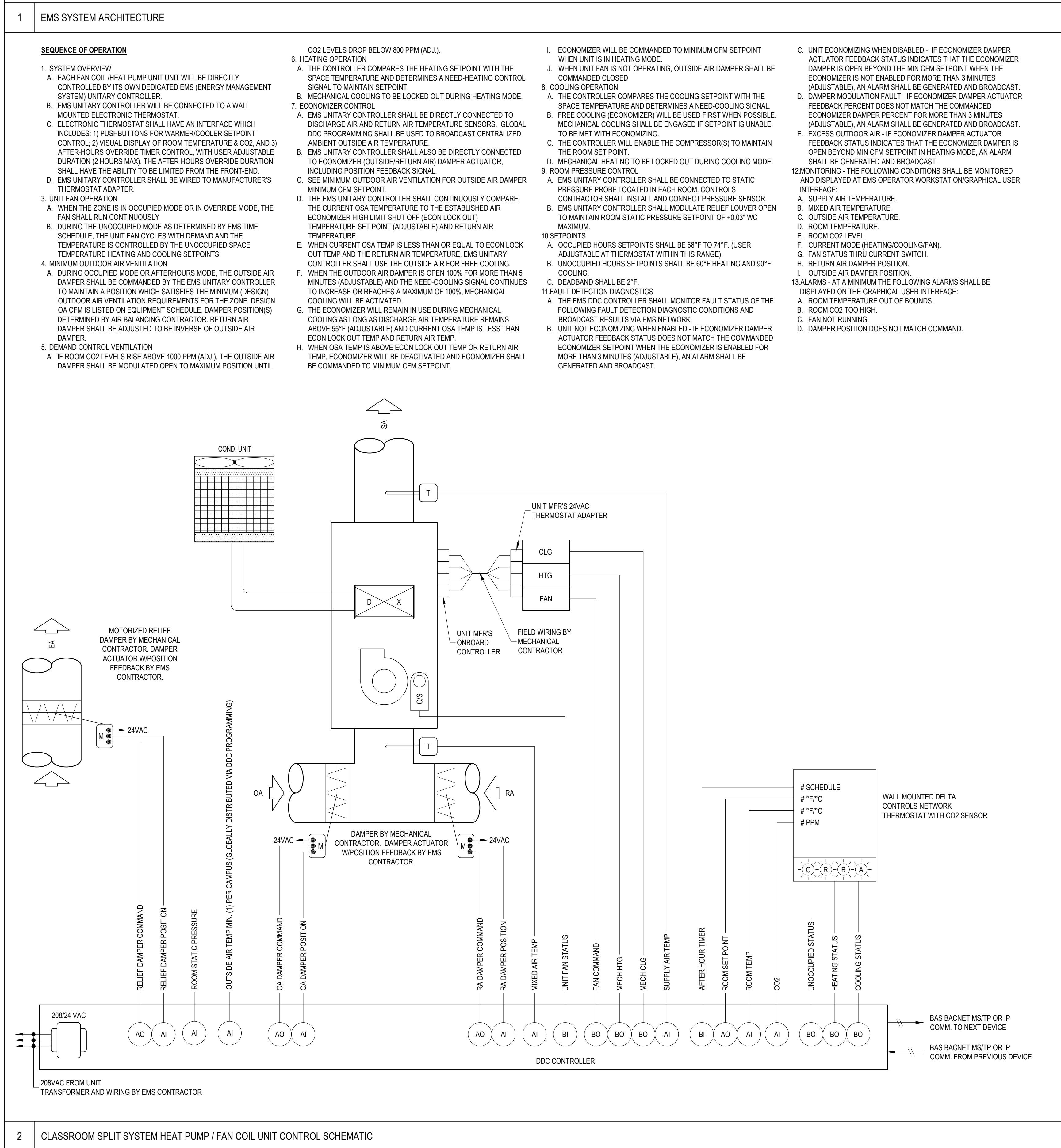
DATE 09/30/2021

JOB # 2021005.01

SHEET #

**MP2.02**





|  |   |   |
|--|---|---|
| IDENTIFICATION STAMP<br>DIV. OF THE STATE ARCHITECT  |   |   |
| APP: 01-119530 INC:  |   |   |
| REVIEWED FOR   |   |   |
| SS <input checked="" type="checkbox"/>   | FLS <input checked="" type="checkbox"/>         | ACS <input checked="" type="checkbox"/>   |
| DATE: 10/26/2021   |   |   |
| <div>aedis architects</div> <div>www.aedisarchitects.com<br/>387 S. 1st Street, Suite 300<br/>San Jose, CA 95113<br/>tel: (408)-300-5160<br/>fax: (408)-300-5121</div> |   |   |
| PROJECT  |   |   |
| COLLEGE PARK ELEMENTARY SCHOOL - HVAC REPLACEMENT  |   |   |
| SAN MATEO-FOSTER CITY SCHOOL DISTRICT  |   |   |
| CONSULTANT   |   |   |
| CES-ASB NO. 21033  | <div><b>CYPRESS</b><br/>Engineering Group</div> | HVAC: Planning & Design<br>Building Commissioning<br>Industrial Refrigeration<br>Energy Audits<br>Training & Technical Support<br><br>831-218-1802<br>8 Haines Court<br>Suite A8<br>Camp Hill, PA 17004<br>cypresseng.com |
| STAMP  |   |   |
| <div>REGISTERED PROFESSIONAL ENGINEER<br/>No. M31059<br/>EXP. JUNE 30, 2023<br/>MECHANICAL<br/>STATE OF CALIFORNIA</div>   |   |   |
| STATE  |   |   |
| APPL #   | 41-26   |   |
| APPL #   | 01-119530                                       |   |
| REVISONS   |   |   |
| No.  | Description                                     | Date  |
|  |   |   |
| MILESTONES   |   |   |
| DD   |   |   |
| 90% CD   |   |   |
| DSA SUB  | 05/26/2021                                      |   |
| BACKCHECK  | 09/30/2021                                      |   |
| SHEET  |   |   |
| CONTROLS &- MECHANICAL   |   |   |
| DATE 09/30/2021  |   |   |
| JOB#   | 2021005.01                                      |   |
| SHEET #  | MP5.01  |   |

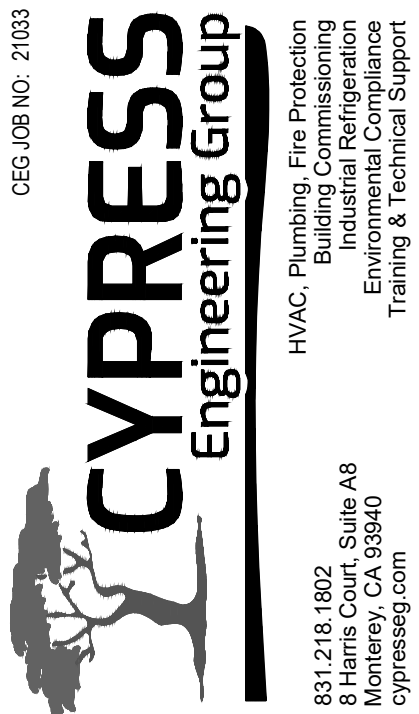


PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT



STAMP



STATE

DSA FILE NUMBER

41-26

APPL. #

01-119530

REVISIONS

No. Description Date

MILESTONES

DD

90% CD

DSA SUB

05/26/2021

BACKCHECK

09/30/2021

SHEET

**DETAILS -  
MECHANICAL &  
PLUMBING**

DATE

09/30/2021

JOB #

2021005.01

SHEET #

**MP6.01**

|   |  |   |   |   |        |
|---|--|---|---|---|--------|
| <div><div>DETAIL NOTES:</div><div><div>1. (E) JOIST.</div><div>2. COPPER B-LINE B22 CHANNEL.</div><div>3. SCREW CHANNEL INTO (E) JOIST W/ 2-3/8"x2" LAG SCREWS.</div><div>4. B-LINE VIBRA-CLAMP PIPE CLAMP.</div><div>5. PIPE(S). SEE PLANS FOR TYPES AND SIZES.</div></div></div> <div><div>NOTES:</div><div>1. 6 FT MAX SPACING BETWEEN SUPPORT</div></div> <div></div>   |  | <div><div>DETAIL NOTES:</div><div><div>1. FAN COIL, SEE PLANS FOR LOCATIONS.</div><div>2. SECURE FAN COIL TO FILTER BOX WITH #14 x 3/4" SM SCREWS AT 4" O.C. ALL AROUND.</div><div>3. FAN COIL STAND / RETURN / OUTSIDE AIR MIXING PLENUM W/ 2'x2'x14" ANGLE IRON FRAME(ASTM A36), ALL WELDED WITH ELECTRODE E70XX, MITERED CORNERS. COVER W/ 20 GA SHEET METAL. LINE W/ 1" ACOUSTIC MATERIAL.</div><div>4. SECURE STAND / MIXING PLENUM TO CONCRETE FLOOR WITH (4) HLT1 KB-T22 3/8"x2-1/2", 2" MIN EMBEDMENT ESR-4266.</div><div>5. SECURE FAN COIL TO STAND W/ 1/4" x 1" BOLT, 7/8"x4" 16 GA PLATE, NUT, AND LOCK WASHER AT 8" O.C. (3) SIDES. FILTER BOX ACCESS TO REMAIN CLEAR. ENSURE REFRIGERANT AND CONDENSATE PIPES DO NOT BLOCK FILTER BOX ACCESS.</div></div></div> <div><div>ROUTE TO CONDENSATE PUMP. INSTALL P-TRAPS OFF TO SIDE OF UNIT SUCH THAT THEY DO NOT BLOCK ACCESS TO THE FILTER BOX.</div><div>11. SECURE FILTER BOX TO STAND W/ 1/4" x 1" BOLT, NUT, AND LOCK WASHER AT 8" O.C. ALL AROUND.</div><div>12. (E) CONCRETE FLOOR.</div></div> <div></div>   |   |   |        |
| 7   | PIPE SUPPORT                             | N.T.S.  | 1 | FAN COIL AND STAND MOUNTING             | N.T.S. |
| <div><div>DETAIL NOTES:</div><div><div>1. WALL.</div><div>2. 2x BLOCKING ALL AROUND.</div><div>3. REGISTER.</div><div>4. #8 WOOD SCREWS, TYP. OF 4.</div><div>5. AIRSAN COMPACT SILENCER BEHIND REGISTER.</div><div>6. SHEET METAL DUCT WITH 1/2" ACOUSTIC LINING.</div></div></div> <div><div>NOTES:</div><div>1. 6 FT MAX SPACING BETWEEN SUPPORT</div></div> <div></div>   |  | <div><div>DETAIL NOTES:</div><div><div>1. FLEX DUCT AT CONNECTION TO UNIT.</div><div>2. (E) WALL.</div><div>3. FAN COIL, SEE PLANS FOR LOCATIONS.</div><div>4. SEAL ALL AROUND FAN COIL AND FILTER BOX WITH 1/2" THICK NEOPRENE GASKET.</div><div>5. SECURE FAN COIL TO FILTER BOX WITH #14 x 3/4" SM SCREWS AT 4" O.C. ALL AROUND.</div><div>6. 4" FILTER BOX THAT CAN FIT EITHER 2" OR 4" FILTERS.</div><div>7. (E) MOTORIZED DAMPER ON RETURN AIR DUCT.</div><div>8. FAN COIL STAND / RETURN / OUTSIDE AIR MIXING PLENUM W/ 2'x2'x14" ANGLE IRON FRAME(ASTM A36), ALL WELDED WITH ELECTRODE E70XX, MITERED CORNERS. COVER W/ 20 GA SHEET METAL. LINE W/ 1" ACOUSTIC MATERIAL.</div><div>9. SECURE STAND / MIXING PLENUM TO CONCRETE FLOOR WITH (4) HLT1 KB-T22 3/8"x2-1/2", 2 EMBEDMENT ESR-4266.</div><div>10. DRAIN CONNECTIONS WITH P-TRAP PER MANUFACTURER'S RECOMMENDATIONS AND CLEANOUT AT ALL CHANGES OF DIRECTION.</div></div></div> <div><div>ROUTE TO CONDENSATE PUMP. INSTALL P-TRAPS OFF TO SIDE OF UNIT SUCH THAT THEY DO NOT BLOCK ACCESS TO THE FILTER BOX.</div><div>11. SECURE FILTER BOX TO STAND W/ 1/4" x 1" BOLT, NUT, AND LOCK WASHER AT 8" O.C. ALL AROUND.</div><div>12. (E) CONCRETE FLOOR.</div></div> <div></div> |   |   |        |
| 8   | REGISTER DETAIL - SIDEWALL MOUNTED       | N.T.S.  | 2 | FAN COIL MOUNTING IN MECHANICAL ROOM    | N.T.S. |
| <div><div>DETAIL NOTES:</div><div><div>1. FOR PIPE SIZES AND TYPES, SEE PLANS.</div><div>2. PROVIDE GAP BETWEEN INTEGRAL STRUT CHANNEL AND HARDWARE USED TO SECURE PIPE TO ALLOW FOR MOVEMENT OF SYSTEM.</div><div>3. (E) ROOF.</div><div>4. SET SUPPORT IN MASTIC COMPATIBLE WITH ROOF SURFACE.</div><div>5. PROVIDE STANDARD STRUT CLAMPS.</div><div>6. B-LINE DURA-BLOCK WITH INTEGRAL CHANNEL AND PIPE BRACKETS. WIDTH AS REQUIRED FOR NUMBER OF PIPES.</div></div></div> <div><div>NOTES:</div><div>1. REFER TO 22 05 00 PLUMBING SPECIFICATIONS FOR SPACING BETWEEN SUPPORT BLOCKS. ADDITIONALLY PROVIDE BLOCK WITHIN 2'-0" OF ANY CHANGE OF DIRECTION.</div></div> <div></div> |  | <div><div>DETAIL NOTES:</div><div><div>1. HEAT PUMP, FOR LOCATION, SEE PLANS.</div><div>2. 4"x4"x1/4" NEOPRENE PADS SET IN SEALANT, TYP. OF 4.</div><div>3. LEVEL BUILT UP PLATFORM WITH SHEET METAL CAP. SEE 11/88.01 FOR PLATFORM DETAIL AND ATTACHMENT TO ROOF STRUCTURE. SEE ARCHITECT'S DRAWINGS FOR PLATFORM CAP.</div><div>4. FOR FLASHING, SEE ARCHITECT'S DRAWINGS.</div><div>5. (E) ROOF.</div><div>6. 3/8"x8 LAG SCREW THRU MOUNTING HOLE AND ISOLATOR PAD TO PLATFORM. MINIMUM 2" EMBEDMENT. TYP. OF 4.</div></div></div> <div><div>SECTION A-A</div></div>   |   |   |        |
| 5   | PIPE SUPPORT ON ROOF                     | N.T.S.  | 3 | SPLIT SYSTEM HEAT PUMP UNIT ON PLATFORM | N.T.S. |
| <div><div>DETAIL NOTES:</div><div><div>1. CONNECT CD TO UNIT PER MANUFACTURER'S INSTALLATION REQUIREMENTS.</div><div>2. LONG RADIUS ELBOW, TYP.</div><div>3. PITCH MINIMUM 1/8" PER FOOT TO DRAIN.</div><div>4. ROUTE TO ROOF DRAIN.</div><div>5. UNIT TOTAL INCHES STATIC PRESSURE ±2".</div></div></div> <div><div>NOTES:</div><div>1. CD PIPE SIZE SHALL NOT BE SMALLER THAN UNIT DRAIN CONNECTION SIZE.</div><div>2. FOR PIPE SIZES AND LOCATIONS, SEE PLANS.</div></div> <div></div>   |  | <div><div>DETAIL NOTES:</div><div><div>1. GALVANIZED SHEET METAL ROOF JACK WITH CAP.</div><div>2. FILL OPENING WITH FOAM.</div><div>3. ROOF OPENING. SEE STRUCTURAL DRAWING FOR CURB. SEE ARCHITECT'S DRAWINGS FOR FLASHING.</div><div>4. ROOFING.</div><div>5. REMOVABLE SHEET METAL COVER ATTACHED WITH TWO (2) #8 SELF TAPPING SCREWS EACH SIDE. PAINTED.</div><div>6. PIPE.</div><div>7. PIPE INSULATION.</div></div></div> <div><div>NOTES:</div><div>1. EXPOSED PIPING SHALL HAVE ALUMINUM JACKET.</div></div> <div></div>  |   |   |        |
| 6   | CONDENSATE DRAIN CONNECTION TO EQUIPMENT | N.T.S.  | 4 | PIPING ROOF JACK                        | N.T.S. |



STATE OF CALIFORNIA  
Mechanical Systems  
NRC-MCH-E (Created 09/2020)  
CERTIFICATE OF COMPLIANCE  
Project Name: College Park Elementary School - HVAC Replacement  
Project Address: 715 Indian Ave, San Mateo, CA 94401  
Report Page: Page 7 of 11  
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/titles24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRC/  
Table with 5 columns: YES, NO, Form/Title, Systems To Be Field Verified, Field Inspector (Pass/Fail). Rows include NRCA-MCH-02-A Outdoor Air, NRCA-MCH-03-A Constant Volume Single Zone HVAC, NRCA-MCH-04-A Air Distribution Duct Leakage, NRCA-MCH-05-A Air Economizer Controls, NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance, 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.

STATE OF CALIFORNIA  
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Project Name: College Park Elementary School - HVAC Replacement  
Project Address: 715 Indian Ave, San Mateo, CA 94401  
Report Page: Page 8 of 11  
Date Prepared: 2021-05-08  
Table with 5 columns: YES, NO, Form/Title, Systems To Be Field Verified, Field Inspector (Pass/Fail). Rows include 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, NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance, 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.

STATE OF CALIFORNIA  
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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/titles24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRC/  
Table with 5 columns: YES, NO, Form/Title, Systems To Be Field Verified, Field Inspector (Pass/Fail). Rows include NRCV-MCH-04-H Duct Leakage Test, NRCV-MCH-24 Enclosure Air Leakage Worksheet, NRCV-MCH-27 High-rise Residential, NRCV-MCH-32 Local Mechanical Exhaust.

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Mechanical Systems  
NRC-MCH-E (Created 09/2020)  
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Report Page: Page 4 of 11  
Date Prepared: 2021-05-08  
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.  
Table with 16 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16. Rows include Nonresidential and Hotel/ Motel Ventilation Systems, System Name, Space Name or Item Tag, Mechanical Ventilation Required, DCV or Occupant Sensor Controls, Total System Required Min OA CFM, Ventilation for this System Complies?

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Report Page: Page 5 of 11  
Date Prepared: 2021-05-08  
Footnotes: 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)(1): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space. 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(d)(1) 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(c).  
K. TERMINAL BOX CONTROLS  
This Section Does Not Apply  
L. DISTRIBUTION (DUCTWORK AND PIPING)  
Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.2 and prescriptive requirements found in §140.4(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.  
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:  
Outdoors  
In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1)(B) or if the roof has fixed vents or openings to the outside/ unconditioned spaces  
In an unconditioned crawlspace  
In other unconditioned spaces  
15 No The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  
16 No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  
Table Continued

STATE OF CALIFORNIA  
Mechanical Systems  
NRC-MCH-E (Created 09/2020)  
CERTIFICATE OF COMPLIANCE  
Project Name: College Park Elementary School - HVAC Replacement  
Project Address: 715 Indian Ave, San Mateo, CA 94401  
Report Page: Page 6 of 11  
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/titles24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRC/  
Table with 6 columns: YES, NO, Form/Title, Systems To Be Field Verified, Field Inspector (Pass/Fail). Row includes NRC-MCH-01-E - Must be submitted for all buildings.

STATE OF CALIFORNIA  
Mechanical Systems  
NRC-MCH-E (Created 09/2020)  
CERTIFICATE OF COMPLIANCE  
Project Name: College Park Elementary School - HVAC Replacement  
Project Address: 715 Indian Ave, San Mateo, CA 94401  
Report Page: Page 1 of 11  
Date Prepared: 2021-05-08  
A. GENERAL INFORMATION  
01 Project Location (city): San Mateo  
02 Climate Zone: 3  
03 Occupancy Types Within Project:  
Office (B) ☐ Retail (M) ☐  
Hotel/ Motel Guest Rooms (R-1) ☒ School (E) ☒  
High-Rise Residential (R-2/R-3) ☐ Relocatable Class Bldg (E) ☐  
Other (Write in):  
Footnotes: 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.  
Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. Rows include My project consists of (check all that apply), Wet System Components, Dry System Components, Mechanical Controls, Mechanical Controls (existing to remain, altered or new), Boilers, Zonal Systems/ Terminal Boxes.  
C. COMPLIANCE RESULTS  
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.  
Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. Rows include System Summary, Pumps, Fans/ Economizers, System Controls, Ventilation, Terminal Box Controls, Distribution Towers, Cooling Towers, Compliance Results.  
Mandatory Measures Compliance (See Table Q for Details) COMPLIES

STATE OF CALIFORNIA  
Mechanical Systems  
NRC-MCH-E (Created 09/2020)  
CERTIFICATE OF COMPLIANCE  
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Project Address: 715 Indian Ave, San Mateo, CA 94401  
Report Page: Page 2 of 11  
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)  
Table with 11 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11. Rows include Name or Item Tag, Equipment Category per Tables 110.2, Equipment Type per Tables 110.2 & Title 20, Smallest Size Available §140.4(a), Per Design (kBtu/h), Rated (kBtu/h), Supp. Heating Output (kBtu/h), Sensible Per Design (kBtu/h), Rated (kBtu/h), Total Heating Load (kBtu/h), Total Sensible Cooling Load (kBtu/h). Row includes HP/FC, Unitary heat pumps (no elec. resistance), Air cooled, split (1 phase), Yes, 60, 60, 0, 54, 54.

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

STATE OF CALIFORNIA  
Mechanical Systems  
NRC-MCH-E (Created 09/2020)  
CERTIFICATE OF COMPLIANCE  
Project Name: College Park Elementary School - HVAC Replacement  
Project Address: 715 Indian Ave, San Mateo, CA 94401  
Report Page: Page 3 of 11  
Date Prepared: 2021-05-08  
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))  
Table with 9 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Rows include Name or Item Tag, Size Category (kBtu/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. Row includes HP/FC, <65,000, HSPF, 8.2, 9, SEER, 14, 17.1.

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)(2) for altered space conditioning systems.  
Table with 9 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Rows include System Name, System Zoning, Conditioned Floor Area Being Served (ft²), Thermostats §130.2(b)(8)(c)1, §120.2(a) or §141.0(b)(2), Shut-Off Controls §120.2(e), Isolation Zone §120.2(a), Demand Response §110.1.2 and §120.2(b), Supply Air Temp. Reset §140.4(f), Window Interlocks per §140.4(n). Row includes HP/FC, single zone, ≤ 25,000 ft², EMCS, EMCS, NA: Single Zone, EMCS, NA: Single Zone, NA: Alteration project.  
Footnotes: 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 \* 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(d)

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 01-119530 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 10/26/2021  
aedis architects  
www.aedisarchitects.com  
387 S. 1st Street, Suite 300  
San Jose, CA 95118  
t el : (408) 300-5160  
f ax : (408) 300-5121

PROJECT  
COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT  
SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT  
CONSULTANT  
DEC 09 NO. 2103  
CYPRESS Engineering Group  
HVAC, Plumbing, Fire Protection  
Building Envelope, Mechanical  
Environmental Performance  
Training & Technical Support  
951-26-1002  
8 Saratoga Court, Suite A3  
Monterey, CA 95040  
cypresseng.com  
STAMP  
REGISTERED PROFESSIONAL ENGINEER  
No. M31059  
EXP. JUNE 30, 2023  
MECHANICAL  
STATE OF CALIFORNIA  
STATE  
DSA FILE NUMBER 41-26  
APPL # 01-119530  
REVISIONS  
No. Description Date  
MILESTONES  
DD  
90% CD  
DSA SUB 05/26/2021  
BACKCHECK 09/30/2021  
SHEET  
TITLE 24  
DOCUMENTS -  
MECHANICAL  
DATE 09/30/2021  
JOB # 2021005.01  
SHEET #  
MP8.01



STATE OF CALIFORNIA  
**Mechanical Systems**  
NRCC-MCH-E (Created 09/2020)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Project Name: College Park Elementary School - HVAC Replacement  
Report Page: Page 10 of 11  
Project Address: 715 Indian Ave, San Mateo, CA 94401  
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  
Compliance with Mandatory Measures documented through  
MCH Mandatory Measures Note Block: No  
Plan sheet or construction document location  
03  
04  
Mandatory Measure  
Plan sheet or construction document location  
Heating Equipment Efficiency per §110.1  
Cooling Equipment Efficiency per §110.1  
Furnace Standby Loss Control per §110.2(d)  
Duct Insulation per §120.4  
Heating Hot Water Equipment Efficiency per §110.1  
Cooling Chilled and Condenser Water Equipment Efficiency per §110.1  
Open and Closed Circuit Cooling Towers conductivity of flow-based controls per §110.2(e)1  
Open and Closed Circuit Cooling Towers Flow Meter with analog output per §110.2(e)3  
Open and Closed Circuit Cooling Towers Overflow Alarm per §110.2(e)4  
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators per §110.2(e)5  
Pipe Insulation per §120.3(b)  
Combustion air shutoff, combustion air fan controls and stack design and controls for boilers per §120.9  
Heat Pump with Supplementary Electric Resistance Heater Controls per §110.2(b)  
The air duct and plenum system is designed per §120.4(a)-(f)  
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2

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

STATE OF CALIFORNIA  
**Mechanical Systems**  
NRCC-MCH-E (Created 1)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Project Name: College Park Elementary School - HVAC Replacement  
Report Page: Page 11 of 11  
Project Address: 715 Indian Ave, San Mateo, CA 94401  
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  
Documentation Author Signature: Chahan Shah  
Company: Cypress Engineering Group  
Signature Date: 5/8/21  
Address: 8 Harris Court, Suite A8  
CEA/ HERS Certification Identification (if applicable):  
City/State/Zip: Monterey, CA 93940  
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 building provides to the building owner at occupancy.  
Responsible Designer Name: Metin Serttunc  
Responsible Designer Signature: Metin Serttunc  
Company: Cypress Engineering Group  
Date Signed: 5/8/21  
Address: 8 Harris Court, Suite A8  
License: M31059  
City/State/Zip: Monterey, CA 93940  
Phone: 8312181802

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

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 01-119530 INC:  
REVIEWED FOR:  
SS ☒ FLS ☒ ACS ☒  
DATE: 10/26/2021

aedis  
architects

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

PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT

DEC 08 NO. 2103  
CYPRESS  
Engineering Group  
HVAC, Plumbing, Fire Protection  
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Energy Modeling  
Environmental Compliance  
Training & Technical Support  
815 E. 1st St., Suite A8  
8 Harris Court, Suite A8  
Monterey, CA 93940  
cypresseng.com

STAMP



STATE

DSA FILE NUMBER

41-26

APPL #

01-119530

REVISIONS

No. Description Date

MILESTONES

DD

90% CD

DSA SUB

05/26/2021

BACKCHECK

09/30/2021

SHEET

TITLE 24  
DOCUMENTS -  
MECHANICAL

DATE

09/30/2021

JOB #

2021005.01

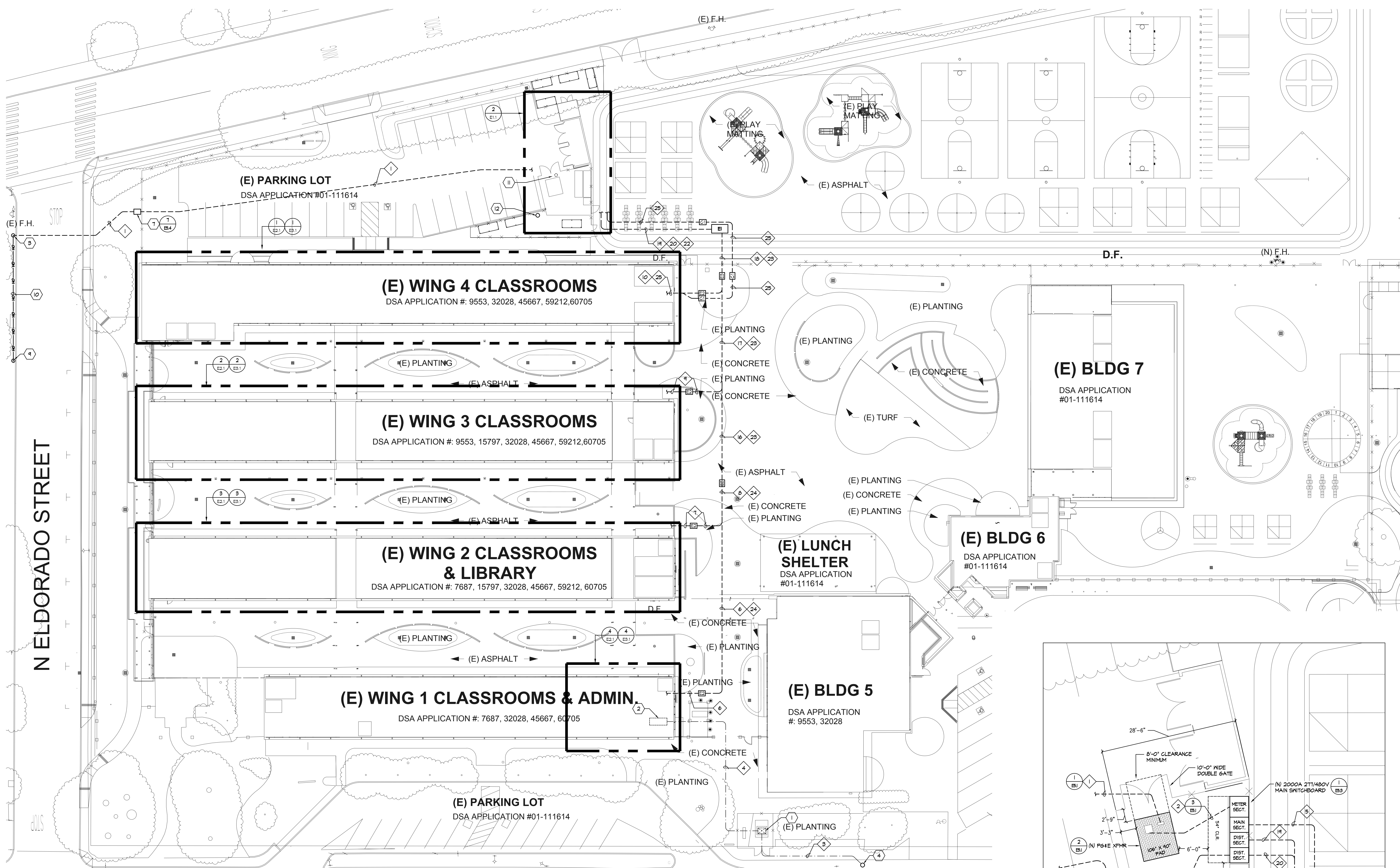
SHEET #

MP8.02









# 1 ELECTRICAL SITE PLAN

E1.1 SCALE: 1" = 20'-0"

## GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAN CUTTINGS 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/PIPES 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/ ES.1.
- INSTALL P64E SECONDARY TRENCH PER 3/ ES.1.
- P64E TRANSFORMER PAD SHALL BE PER 2/ ES.1.
- ALL ON SITE TRENCH SHALL BE INSTALLED PER 3/ ES.4.
- SEE THE DEMO SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- SEE NEW SINGLE LINE DIAGRAM FOR FEEDER CABLE AND CONDUIT REQUIREMENTS.
- THE CONTRACTOR SHALL MANDEREL THROUGH THE ENTIRE P64E CONDUIT SYSTEM. COORDINATE WITH P64E FOR ADDITIONAL REQUIREMENTS AND PROCEDURES.

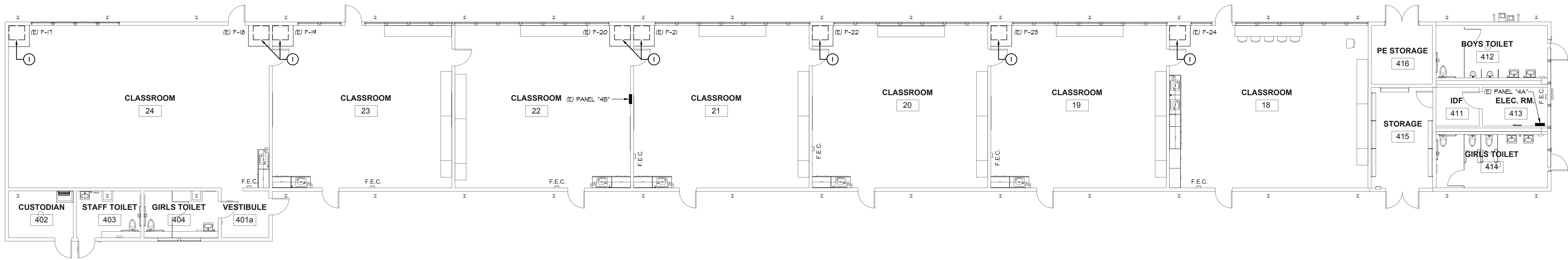
## SHEET NOTES:

- EXISTING P64E TRANSFORMER TO BE REMOVED.
- EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL 'DP'.
- NEW P64E UTILITY POLE WITH NEW RISER PROVIDED BY P64E.
- EXISTING P64E POLE WITH RISER.
- FUTURE PV DISTRIBUTION PANEL LOCATION. STUB CONDUIT INTO LOCATION OF CONDUIT FOR FUTURE SEAR.
- FUTURE PV DISCONNECT SWITCH LOCATION. STUB CONDUIT INTO LOCATION OF CONDUIT ENTRY FOR FUTURE SWITCH.
- NEW P64E IN-GRADE PULL BOX.
- STUB PV CONDUIT IN THIS LOCATION. CONDUIT TO BE STUBBED TO JUST OUTSIDE CONCRETE SIDEWALK.
- EXISTING P64E POLE TO REMAIN.
- NEW OVERHEAD PRIMARY PROVIDED BY P64E.
- EXISTING EXTERIOR POLE AND LIGHT FIXTURE FOR PARKING LOT TO BE RELOCATED. THE EXISTING RAISED POLE BASE TO BE DEMOLISHED AND REMOVED. EXISTING LIGHTING CIRCUITRY IS TO BE REUSED. CONTRACTOR IS RESPONSIBLE TO LOCATE AND PREPARE THE EXISTING UNDERGROUND CIRCUITRY TO BE INTERCEPTED. REMOVE THE EXISTING LIGHTING CIRCUITRY FROM THE AREA OF NEW WORK.
- RELOCATED POLE AND LIGHT FIXTURE WITH NEW POLE BASE TO THIS APPROXIMATE LOCATION.
- PROVIDE NEW IN-GRADE PULL BOX AND NEW UNDERGROUND CONDUIT REQUIRED TO INTERCEPT THE EXISTING UNDERGROUND LIGHTING CIRCUITRY. EXTEND EXISTING CIRCUITRY WITH NEW CABLES. FOR SPLICES INSIDE THE IN-GRADE PULL BOX, PROVIDE POLARIS SUBMERSIBLE SPLICE CONNECTIONS.

## CONDUIT SCHEDULE:

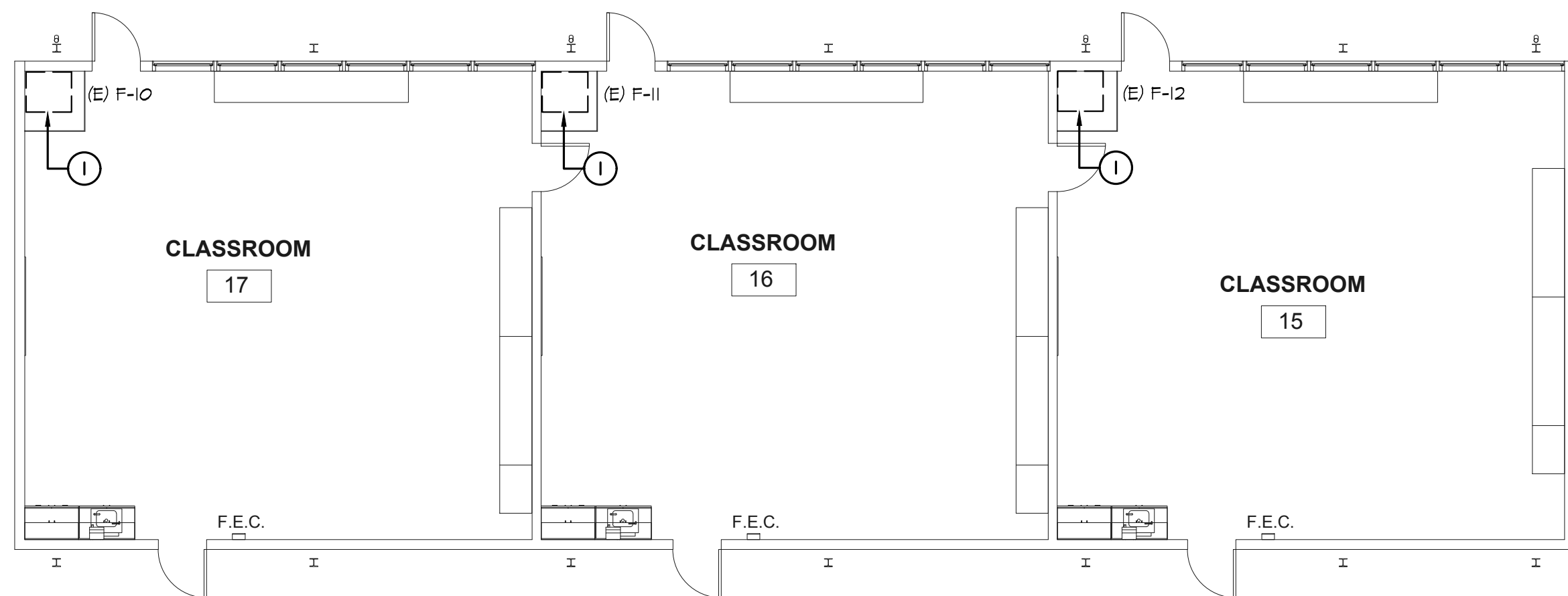
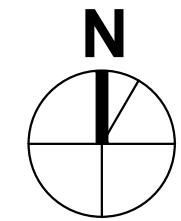
- |                                   |                              |                              |
|-----------------------------------|------------------------------|------------------------------|
| 1 (N) 1/ 4" - P64E PRIMARY        | 13 NOT USED                  | 19 (N) 2/ 2 1/ 2" - XFMR T1' |
| 2 (N) 1/ 5" - P64E SECONDARY      | 14 NOT USED                  | 20 (N) 1/ 2 1/ 2" - XFMR T2' |
| 3 (E) 1/ 4" - P64E PRIMARY        | 15 NOT USED                  | 21 (N) 1/ 3" - XFMR T3'      |
| 4 (E) 5/ 8" - P64E SECONDARY      | 16 (N) 2/ 2 1/ 2" - XFMR T1' | 22 (N) 1/ 2" - XFMR T4'      |
| 5 (N) 1/ 1" - P64E COMMUNICATIONS | 17 (N) 1/ 2 1/ 2" - XFMR T2' | 23 (N) 1/ 3" - XFMR T5'      |
| 6 (N) 2/ 2 1/ 2" - XFMR T1'       | 18 (N) 1/ 3" - XFMR T3'      | 24 (N) 1/ 2" - XFMR T6'      |
| 7 (N) 1/ 2 1/ 2" - XFMR T2'       | 19 (N) 1/ 2" - XFMR T4'      | 25 (N) 1/ 2" - XFMR T7'      |
| 8 (N) 2/ 2 1/ 2" - XFMR T1'       | 20 (N) 1/ 3" - XFMR T5'      | 26 (N) 1/ 2" - XFMR T8'      |
| 9 (N) 1/ 3" - XFMR T3'            | 21 (N) 1/ 2" - XFMR T6'      | 27 (N) 1/ 2" - XFMR T9'      |
| 10 (N) 1/ 3" - XFMR T4'           | 22 (N) 1/ 2" - XFMR T7'      | 28 (N) 1/ 2" - XFMR T10'     |
| 11 NOT USED                       | 23 (N) 1/ 2" - XFMR T11'     | 29 (N) 1/ 2" - XFMR T12'     |
| 12 NOT USED                       | 24 (N) 1/ 2" - XFMR T13'     | 30 (N) 1/ 2" - XFMR T14'     |
|                                   | 25 (N) 1/ 2" - XFMR T15'     | 31 (N) 1/ 2" - XFMR T16'     |
|                                   | 26 (N) 1/ 2" - XFMR T17'     | 32 (N) 1/ 2" - XFMR T18'     |
|                                   | 27 (N) 1/ 2" - XFMR T19'     | 33 (N) 1/ 2" - XFMR T20'     |
|                                   | 28 (N) 1/ 2" - XFMR T21'     | 34 (N) 1/ 2" - XFMR T22'     |
|                                   | 29 (N) 1/ 2" - XFMR T23'     | 35 (N) 1/ 2" - XFMR T24'     |
|                                   | 30 (N) 1/ 2" - XFMR T25'     | 36 (N) 1/ 2" - XFMR T26'     |
|                                   | 31 (N) 1/ 2" - XFMR T27'     | 37 (N) 1/ 2" - XFMR T28'     |
|                                   | 32 (N) 1/ 2" - XFMR T29'     | 38 (N) 1/ 2" - XFMR T30'     |
|                                   | 33 (N) 1/ 2" - XFMR T31'     | 39 (N) 1/ 2" - XFMR T32'     |
|                                   | 34 (N) 1/ 2" - XFMR T33'     | 40 (N) 1/ 2" - XFMR T34'     |
|                                   | 35 (N) 1/ 2" - XFMR T35'     | 41 (N) 1/ 2" - XFMR T36'     |
|                                   | 36 (N) 1/ 2" - XFMR T37'     | 42 (N) 1/ 2" - XFMR T38'     |
|                                   | 37 (N) 1/ 2" - XFMR T39'     | 43 (N) 1/ 2" - XFMR T40'     |
|                                   | 38 (N) 1/ 2" - XFMR T41'     | 44 (N) 1/ 2" - XFMR T42'     |
|                                   | 39 (N) 1/ 2" - XFMR T43'     | 45 (N) 1/ 2" - XFMR T44'     |
|                                   | 40 (N) 1/ 2" - XFMR T45'     | 46 (N) 1/ 2" - XFMR T46'     |
|                                   | 41 (N) 1/ 2" - XFMR T47'     | 47 (N) 1/ 2" - XFMR T48'     |
|                                   | 42 (N) 1/ 2" - XFMR T49'     | 48 (N) 1/ 2" - XFMR T50'     |
|                                   | 43 (N) 1/ 2" - XFMR T51'     | 49 (N) 1/ 2" - XFMR T52'     |
|                                   | 44 (N) 1/ 2" - XFMR T53'     | 50 (N) 1/ 2" - XFMR T54'     |
|                                   | 45 (N) 1/ 2" - XFMR T55'     | 51 (N) 1/ 2" - XFMR T56'     |
|                                   | 46 (N) 1/ 2" - XFMR T57'     | 52 (N) 1/ 2" - XFMR T58'     |
|                                   | 47 (N) 1/ 2" - XFMR T59'     | 53 (N) 1/ 2" - XFMR T60'     |
|                                   | 48 (N) 1/ 2" - XFMR T61'     | 54 (N) 1/ 2" - XFMR T62'     |
|                                   | 49 (N) 1/ 2" - XFMR T63'     | 55 (N) 1/ 2" - XFMR T64'     |
|                                   | 50 (N) 1/ 2" - XFMR T65'     | 56 (N) 1/ 2" - XFMR T66'     |
|                                   | 51 (N) 1/ 2" - XFMR T67'     | 57 (N) 1/ 2" - XFMR T68'     |
|                                   | 52 (N) 1/ 2" - XFMR T69'     | 58 (N) 1/ 2" - XFMR T70'     |
|                                   | 53 (N) 1/ 2" - XFMR T71'     | 59 (N) 1/ 2" - XFMR T72'     |
|                                   | 54 (N) 1/ 2" - XFMR T73'     | 60 (N) 1/ 2" - XFMR T74'     |
|                                   | 55 (N) 1/ 2" - XFMR T75'     | 61 (N) 1/ 2" - XFMR T76'     |
|                                   | 56 (N) 1/ 2" - XFMR T77'     | 62 (N) 1/ 2" - XFMR T78'     |
|                                   | 57 (N) 1/ 2" - XFMR T79'     | 63 (N) 1/ 2" - XFMR T80'     |
|                                   | 58 (N) 1/ 2" - XFMR T81'     | 64 (N) 1/ 2" - XFMR T82'     |
|                                   | 59 (N) 1/ 2" - XFMR T83'     | 65 (N) 1/ 2" - XFMR T84'     |
|                                   | 60 (N) 1/ 2" - XFMR T85'     | 66 (N) 1/ 2" - XFMR T86'     |
|                                   | 61 (N) 1/ 2" - XFMR T87'     | 67 (N) 1/ 2" - XFMR T88'     |
|                                   | 62 (N) 1/ 2" - XFMR T89'     | 68 (N) 1/ 2" - XFMR T90'     |
|                                   | 63 (N) 1/ 2" - XFMR T91'     | 69 (N) 1/ 2" - XFMR T92'     |
|                                   | 64 (N) 1/ 2" - XFMR T93'     | 70 (N) 1/ 2" - XFMR T94'     |
|                                   | 65 (N) 1/ 2" - XFMR T95'     | 71 (N) 1/ 2" - XFMR T96'     |
|                                   | 66 (N) 1/ 2" - XFMR T97'     | 72 (N) 1/ 2" - XFMR T98'     |
|                                   | 67 (N) 1/ 2" - XFMR T99'     | 73 (N) 1/ 2" - XFMR T100'    |
|                                   | 68 (N) 1/ 2" - XFMR T101'    | 74 (N) 1/ 2" - XFMR T102'    |
|                                   | 69 (N) 1/ 2" - XFMR T103'    | 75 (N) 1/ 2" - XFMR T104'    |
|                                   | 70 (N) 1/ 2" - XFMR T105'    | 76 (N) 1/ 2" - XFMR T106'    |
|                                   | 71 (N) 1/ 2" - XFMR T107'    | 77 (N) 1/ 2" - XFMR T108'    |
|                                   | 72 (N) 1/ 2" - XFMR T109'    | 78 (N) 1/ 2" - XFMR T110'    |
|                                   | 73 (N) 1/ 2" - XFMR T111'    | 79 (N) 1/ 2" - XFMR T112'    |
|                                   | 74 (N) 1/ 2" - XFMR T113'    | 80 (N) 1/ 2" - XFMR T114'    |
|                                   | 75 (N) 1/ 2" - XFMR T115'    | 81 (N) 1/ 2" - XFMR T116'    |
|                                   | 76 (N) 1/ 2" - XFMR T117'    | 82 (N) 1/ 2" - XFMR T118'    |
|                                   | 77 (N) 1/ 2" - XFMR T119'    | 83 (N) 1/ 2" - XFMR T120'    |
|                                   | 78 (N) 1/ 2" - XFMR T121'    | 84 (N) 1/ 2" - XFMR T122'    |
|                                   | 79 (N) 1/ 2" - XFMR T123'    | 85 (N) 1/ 2" - XFMR T124'    |
|                                   | 80 (N) 1/ 2" - XFMR T125'    | 86 (N) 1/ 2" - XFMR T126'    |
|                                   | 81 (N) 1/ 2" - XFMR T127'    | 87 (N) 1/ 2" - XFMR T128'    |
|                                   | 82 (N) 1/ 2" - XFMR T129'    | 88 (N) 1/ 2" - XFMR T130'    |
|                                   | 83 (N) 1/ 2" - XFMR T131'    | 89 (N) 1/ 2" - XFMR T132'    |
|                                   | 84 (N) 1/ 2" - XFMR T133'    | 90 (N) 1/ 2" - XFMR T134'    |
|                                   | 85 (N) 1/ 2" - XFMR T135'    | 91 (N) 1/ 2" - XFMR T136'    |
|                                   | 86 (N) 1/ 2" - XFMR T137'    | 92 (N) 1/ 2" - XFMR T138'    |
|                                   | 87 (N) 1/ 2" - XFMR T139'    | 93 (N) 1/ 2" - XFMR T140'    |
|                                   | 88 (N) 1/ 2" - XFMR T141'    | 94 (N) 1/ 2" - XFMR T142'    |
|                                   | 89 (N) 1/ 2" - XFMR T143'    | 95 (N) 1/ 2" - XFMR T144'    |
|                                   | 90 (N) 1/ 2" - XFMR T145'    | 96 (N) 1/ 2" - XFMR T146'    |
|                                   | 91 (N) 1/ 2" - XFMR T147'    | 97 (N) 1/ 2" - XFMR T148'    |
|                                   | 92 (N) 1/ 2" - XFMR T149'    | 98 (N) 1/ 2" - XFMR T150'    |
|                                   | 93 (N) 1/ 2" - XFMR T151'    | 99 (N) 1/ 2" - XFMR T152'    |
|                                   | 94 (N) 1/ 2" - XFMR T153'    | 100 (N) 1/ 2" - XFMR T154'   |
|                                   | 95 (N) 1/ 2" - XFMR T155'    | 101 (N) 1/ 2" - XFMR T156'   |
|                                   | 96 (N) 1/ 2" - XFMR T157'    | 102 (N) 1/ 2" - XFMR T158'   |
|                                   | 97 (N) 1/ 2" - XFMR T159'    | 103 (N) 1/ 2" - XFMR T160'   |
|                                   | 98 (N) 1/ 2" - XFMR T161'    | 104 (N) 1/ 2" - XFMR T162'   |
|                                   | 99 (N) 1/ 2" - XFMR T163'    | 105 (N) 1/ 2" - XFMR T164'   |
|                                   | 100 (N) 1/ 2" - XFMR T165'   | 106 (N) 1/ 2" - XFMR T166'   |
|                                   | 101 (N) 1/ 2" - XFMR T167'   | 107 (N) 1/ 2" - XFMR T168'   |
|                                   | 102 (N) 1/ 2" - XFMR T169'   | 108 (N) 1/ 2" - XFMR T170'   |
|                                   | 103 (N) 1/ 2" - XFMR T171'   | 109 (N) 1/ 2" - XFMR T172'   |
|                                   | 104 (N) 1/ 2" - XFMR T173'   | 110 (N) 1/ 2" - XFMR T174'   |
|                                   | 105 (N) 1/ 2" - XFMR T175'   | 111 (N) 1/ 2" - XFMR T176'   |
|                                   | 106 (N) 1/ 2" - XFMR T177'   | 112 (N) 1/ 2" - XFMR T178'   |
|                                   | 107 (N) 1/ 2" - XFMR T179'   | 113 (N) 1/ 2" - XFMR T180'   |
|                                   | 108 (N) 1/ 2" - XFMR T181'   | 114 (N) 1/ 2" - XFMR T182'   |
|                                   | 109 (N) 1/ 2" - XFMR T183'   | 115 (N) 1/ 2" - XFMR T184'   |
|                                   | 110 (N) 1/ 2" - XFMR T185'   | 116 (N) 1/ 2" - XFMR T186'   |
|                                   | 111 (N) 1/ 2" - XFMR T187'   | 117 (N) 1/ 2" - XFMR T188'   |
|                                   | 112 (N) 1/ 2" - XFMR T189'   | 118 (N) 1/ 2" - XFMR T190'   |
|                                   | 113 (N) 1/ 2" - XFMR T191'   | 119 (N) 1/ 2" - XFMR T192'   |
|                                   | 114 (N) 1/ 2" - XFMR T193'   | 120 (N) 1/ 2" - XFMR T194'   |
|                                   | 115 (N) 1/ 2" - XFMR T195'   | 121 (N) 1/ 2" - XFMR T196'   |
|                                   | 116 (N) 1/ 2" - XFMR T197'   | 122 (N) 1/ 2" - XFMR T198'   |
|                                   | 117 (N) 1/ 2" - XFMR T199'   | 123 (N) 1/ 2" - XFMR T200'   |
|                                   | 118 (N) 1/ 2" - XFMR T201'   | 124 (N) 1/ 2" - XFMR T202'   |
|                                   | 119 (N) 1/ 2" - XFMR T203'   | 125 (N) 1/ 2" - XFMR T204'   |
|                                   | 120 (N) 1/ 2" - XFMR T205'   | 126 (N) 1/ 2" - XFMR T206'   |
|                                   | 121 (N) 1/ 2" - XFMR T207'   | 127 (N) 1/ 2" - XFMR T208'   |
|                                   | 122 (N) 1/ 2" - XFMR T209'   | 128 (N) 1/ 2" - XFMR T210'   |
|                                   | 123 (N) 1/ 2" - XFMR T211'   | 129 (N) 1/ 2" - XFMR T212'   |
|                                   | 124 (N) 1/ 2" - XFMR T213'   | 130 (N) 1/ 2" - XFMR T214'   |
|                                   | 125 (N) 1/ 2" - XFMR T215'   | 131 (N) 1/ 2" - XFMR T216'   |
|                                   | 126 (N) 1/ 2" - XFMR T217'   | 132 (N) 1/ 2" - XFMR T218'   |
|                                   | 127 (N) 1/ 2" - XFMR T219'   | 133 (N) 1/ 2" - XFMR T220'   |
|                                   | 128 (N) 1/ 2" - XFMR T221'   | 134 (N) 1/ 2" - XFMR T222'   |
|                                   | 129 (N) 1/ 2" - XFMR T223'   | 135 (N) 1/ 2" - XFMR T224'   |
|                                   | 130 (N) 1/ 2" - XFMR T225'   | 136 (N) 1/ 2" - XFMR T226'   |
|                                   | 131 (N) 1/ 2" - XFMR T227'   | 137 (N) 1/ 2" - XFMR T228'   |
|                                   | 132 (N) 1/ 2" - XFMR T229'   | 138 (N) 1/ 2" - XFMR T230'   |
|                                   | 133 (N) 1/ 2" - XFMR T231'   | 139 (N) 1/ 2" - XFMR T232'   |
|                                   | 134 (N) 1/ 2" - XFMR T233'   | 140 (N) 1/ 2" - XFMR T234'   |
|                                   | 135 (N) 1/ 2" - XFMR T235'   | 141 (N) 1/ 2" - XFMR T236'   |
|                                   | 136 (N) 1/ 2" - XFMR T237'   | 142 (N) 1/ 2" - XFMR T238'   |
|                                   | 137 (N) 1/ 2" - XFMR T239'   | 143 (N) 1/ 2" - XFMR T240'   |
|                                   | 138 (N) 1/ 2" - XFMR T241'   | 144 (N) 1/ 2" - XFMR T242'   |
|                                   | 139 (N) 1/ 2" - XFMR T243'   | 145 (N) 1/ 2" - XFMR T244'   |
|                                   | 140 (N) 1/ 2" - XFMR T245'   | 146 (N) 1/ 2" - XFMR T246'   |
|                                   | 141 (N) 1/ 2" - XFMR T247'   | 147 (N) 1/ 2" - XFMR T248'   |
|                                   | 142 (N) 1/ 2" - XFMR T249'   | 148 (N) 1/ 2" - XFMR T250'   |
|                                   | 143 (N) 1/ 2" - XFMR T251'   | 149 (N) 1/ 2" - XFMR T252'   |
|                                   | 144 (N) 1/ 2" - XFMR T253'   | 150 (N) 1/ 2" - XFMR T254'   |
|                                   | 145 (N) 1/ 2" - XFMR T255'   | 151 (N) 1/ 2" - XFMR T256'   |
|                                   | 146 (N) 1/ 2" - XFMR T257'   | 152 (N) 1/ 2" - XFMR T258'   |
|                                   | 147 (N) 1/ 2" - XFMR T259'   | 153 (N) 1/ 2" - XFMR T260'   |
|                                   | 148 (N) 1/ 2" - XFMR T261'   | 154 (N) 1/ 2" - XFMR T262'   |
|                                   | 149 (N) 1/ 2" - XFMR T263'   | 155 (N) 1/ 2" - XFMR T264'   |
|                                   | 150 (N) 1/ 2" - XFMR T265'   | 156 (N) 1/ 2" - XFMR T266'   |
|                                   | 151 (N) 1/ 2" - XFMR T267'   | 157 (N) 1/ 2" - XFMR T268'   |
|                                   | 152 (N) 1/ 2" - XFMR T269'   | 158 (N) 1/ 2" - XFMR T270'   |
|                                   | 153 (N) 1/ 2" - XFMR T271'   | 159 (N) 1/ 2" - XFMR T272'   |
|                                   | 154 (N) 1/ 2" - XFMR T273'   | 160 (N) 1/ 2" - XFMR T274'   |
|                                   | 155 (N) 1/ 2" - XFMR T275'   | 161 (N) 1/ 2" - XFMR T276'   |
|                                   | 156 (N) 1/ 2" - XFMR T277'   | 162 (N) 1/ 2" - XFMR T278'   |
|                                   | 157 (N) 1/ 2" - XFMR T279'   | 163 (N) 1/ 2" - XFMR T280'   |
|                                   | 158 (N) 1/ 2" - XFMR T281'   | 164 (N) 1/ 2" - XFMR T282'   |
|                                   | 159 (N) 1/ 2" - XFMR T283'   | 165 (N) 1/ 2" - XFMR T284'   |
|                                   | 160 (N) 1/ 2" - XFMR T285'   | 166 (N) 1/ 2" - XFMR T286'   |
|                                   | 161 (N) 1/ 2" - XFMR T287'   | 167 (N) 1/ 2" - XFMR T288'   |
|                                   | 162 (N) 1/ 2" - XFMR T289'   | 168 (N) 1/ 2" - XFMR T290'   |
|                                   | 163 (N) 1/ 2" - XFMR T291'   | 169 (N) 1/ 2" - XFMR T292'   |
|                                   | 164 (N) 1/ 2" - XFMR T293'   | 170 (N) 1/ 2" - XFMR T294'   |
|                                   | 165 (N) 1/ 2" - XFMR T295'   | 171 (N) 1/ 2" - XFMR T296'   |
|                                   | 166 (N) 1/ 2" - XFMR T297'   | 172 (N) 1/ 2" - XFMR T298'   |
|                                   | 167 (N) 1/ 2" - XFMR T299'   | 173 (N) 1/ 2" - XFMR T300'   |
|                                   | 168 (N) 1/ 2" - XFMR T301'   | 174 (N) 1/ 2" - XFMR T302'   |
|                                   | 169 (N) 1/ 2" - XFMR T303'   | 175 (N) 1/ 2" - XFMR T304'   |
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|                                   | 171 (N) 1/ 2" - XFMR T307'   | 177 (N) 1/ 2" - XFMR T308'   |
|                                   | 172 (N) 1/ 2" - XFMR T309'   | 178 (N) 1/ 2" - XFMR T310'   |
|                                   | 173 (N) 1/ 2" - XFMR T311'   | 179 (N) 1/ 2" - XFMR T312'   |
|                                   | 174 (N) 1/ 2" - XFMR T313'   | 180 (N) 1/ 2" - XFMR T314'   |
|                                   | 175 (N) 1/ 2" - XFMR T315'   | 181 (N) 1/ 2" - XFMR T316'   |
|                                   | 176 (N) 1/ 2" - XFMR T317'   | 182 (N) 1/ 2" - XFMR T318'   |
|                                   | 177 (N) 1/ 2" - XFMR T319'   | 183 (N) 1/ 2" - XFMR T320'   |
|                                   | 178 (N) 1/ 2" - XFMR T321'   | 184 (N) 1/ 2" - XFMR T322'   |
|                                   | 179 (N) 1/ 2" - XFMR T323'   | 185 (N) 1/ 2" - XFMR T324'   |
|                                   | 180 (N) 1/ 2" - XFMR T325'   | 186 (N) 1/ 2" - XFMR T326'   |
|                                   | 181 (N) 1/ 2" - XFMR T327'   | 187 (N) 1/ 2" - XFMR T328'   |
|                                   | 182 (N) 1/ 2" - XFMR T329'   | 188 (N) 1/ 2" - XFMR T330'   |
|                                   | 183 (N) 1/ 2" - XFMR T331'   | 189 (N) 1/ 2" - XFMR T332'   |
|                                   | 184 (N) 1/ 2" - XFMR T333'   | 190 (N) 1/ 2" - XFMR T334'   |
|                                   | 185 (N) 1/ 2" - XFMR T335'   | 191 (N) 1/ 2" - XFMR T336'   |
|                                   | 186 (N) 1/ 2" - XFMR T337'   | 192 (N) 1/ 2" - XFMR T338'   |
|                                   | 187 (N) 1/ 2" - XFMR T339'   | 193 (N) 1/ 2" - XFMR T340'   |
|                                   | 188 (N) 1/ 2" - XFMR T341'   | 194 (N) 1/ 2" - XFMR T342'   |
|                                   | 189 (N) 1/ 2" - XFMR T343'   | 195 (N) 1/ 2" - XFMR T344'   |
|                                   | 190 (N) 1/ 2" - XFMR T345'   | 196 (N) 1/ 2" - XFMR T346'   |
|                                   | 191 (N) 1/ 2" - XFMR T347'   | 197 (N) 1/ 2" - XFMR T348'   |
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|                                   | 193 (N) 1/ 2" - XFMR T351'   | 199 (N) 1/ 2" - XFMR T352'   |
|                                   | 194 (N) 1/ 2" - XFMR T353'   | 200 (N) 1/ 2" - XFMR T354'   |
|                                   | 195 (N) 1/ 2" - XFMR T355'   | 201 (N) 1/ 2" - XFMR T356'   |
|                                   | 196 (N) 1/ 2" - XFMR T357'   | 202 (N) 1/ 2" - XFMR T358'   |
|                                   | 197 (N) 1/ 2" - XFMR T359'   | 203 (N) 1/ 2" - XFMR T360'   |
|                                   | 198 (N) 1/ 2" - XFMR T361'   | 204 (N) 1/ 2" - XFMR T362'   |
|                                   | 199 (N) 1/ 2" - XFMR T363'   | 205 (N) 1/ 2" - XFMR T364'   |
|                                   | 200 (N) 1/ 2" - XFMR T365'   | 206 (N) 1/ 2" - XFMR T366'   |
|                                   | 201 (N) 1/ 2" - XFMR T367'   | 207 (N) 1/ 2" - XFMR T368'   |
|                                   | 202 (N) 1/ 2" - XFMR T369'   | 208 (N) 1/ 2" - XFMR T370'   |
|                                   | 203 (N) 1/ 2" - XFMR T371'   | 209 (N) 1/ 2" - XFMR T372'   |
|                                   | 204 (N) 1/ 2" - XFMR T373'   | 210 (N) 1/ 2" - XFMR T374'   |
|                                   | 205 (N) 1/ 2" - XFMR T375'   | 211 (N) 1/ 2" - XFMR T376'   |
|                                   | 206 (N) 1/ 2" - XFMR T377'   | 212 (N) 1/ 2" - XFMR T378'   |
|                                   | 207 (N) 1/ 2" - XFMR T379'   | 213 (N) 1/ 2" - XFMR T380'   |
|                                   | 208 (N) 1/ 2" - XFMR T381'   | 214 (N) 1/ 2" - XFMR T382'   |
|                                   | 209 (N) 1/ 2" - XFMR T383'   | 215 (N) 1/ 2" - XFMR T384'   |
|                                   | 210 (N) 1/ 2" - XFMR T385'   | 216 (N) 1/ 2" - XFMR T386'   |
|                                   | 211 (N) 1/ 2" - XFMR T387'   | 217 (N) 1/ 2" - XFMR T388'   |
|                                   | 212 (N) 1/ 2" - XFMR T389'   | 218 (N) 1/ 2" - XFMR T390'   |
|                                   | 213 (N) 1/ 2" - XFMR T391'   | 219 (N) 1/ 2" - XFMR T392'   |
|                                   | 214 (N) 1/ 2" - XFMR T393'   | 220 (N) 1/ 2"                |





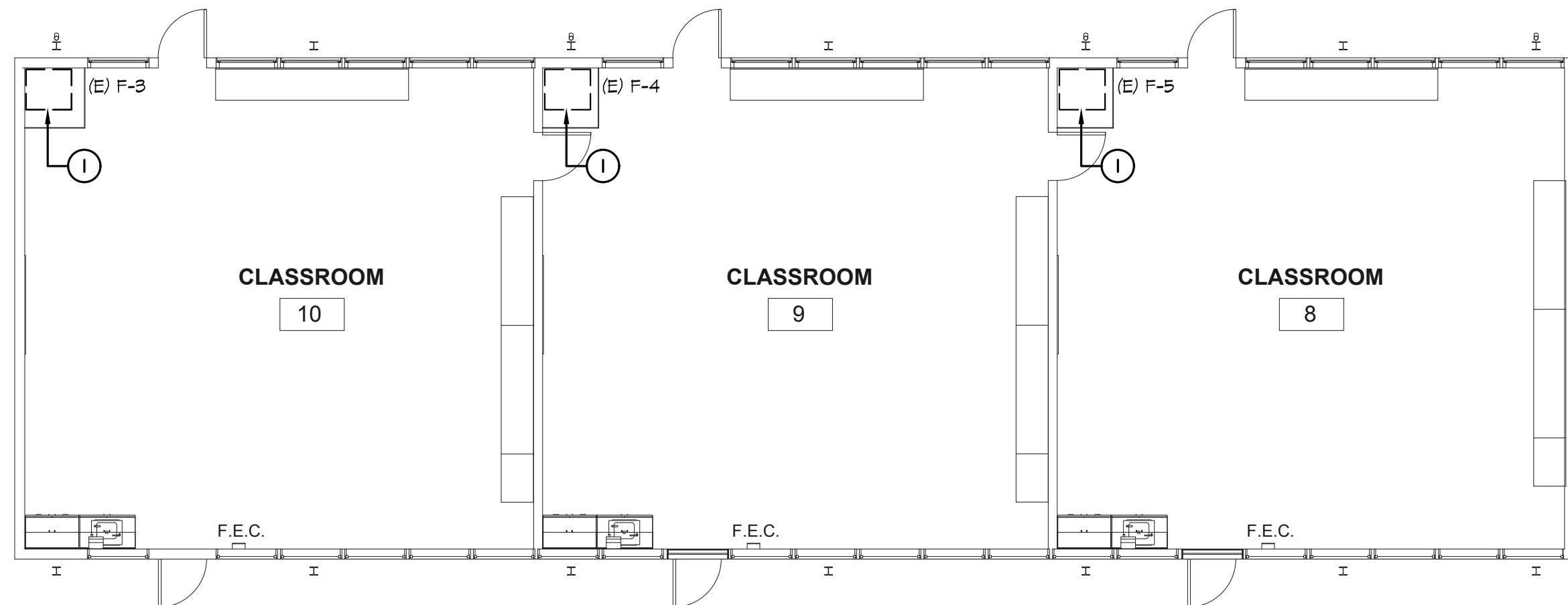
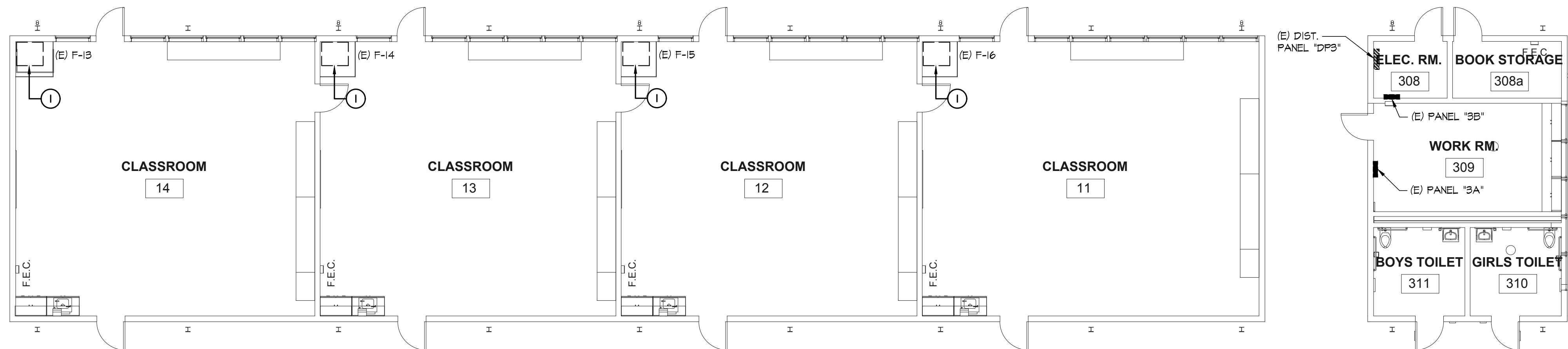
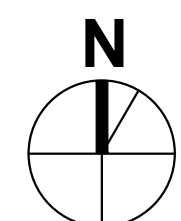
## 1 ELECTRICAL DEMO FLOOR PLAN - WING #4

E2.1 SCALE: 1/8" = 1'-0"



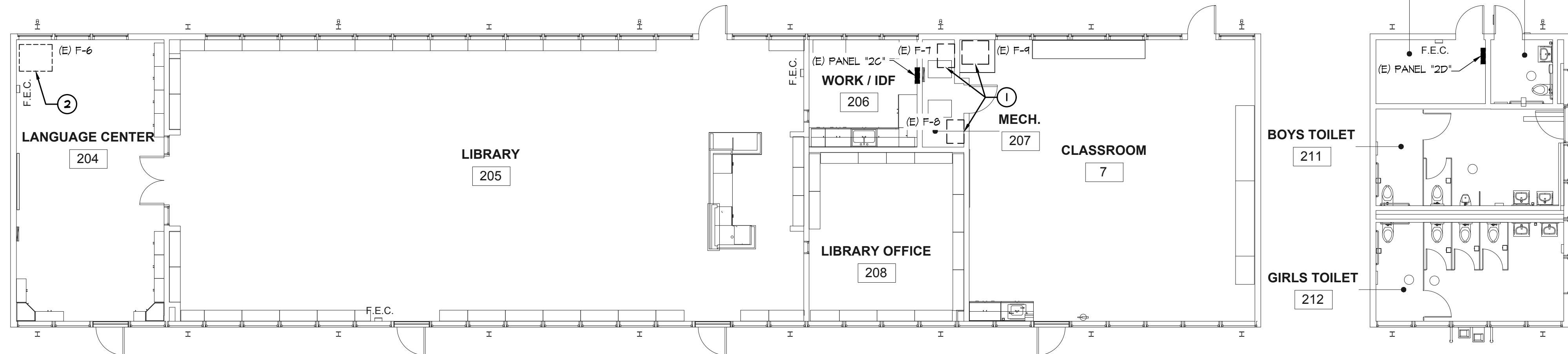
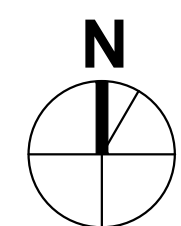
## 2 ELECTRICAL DEMO FLOOR PLAN - WING #3

E2.1 SCALE: 1/8" = 1'-0"



## 3 ELECTRICAL DEMO FLOOR PLAN - WING #2

E2.1 SCALE: 1/8" = 1'-0"

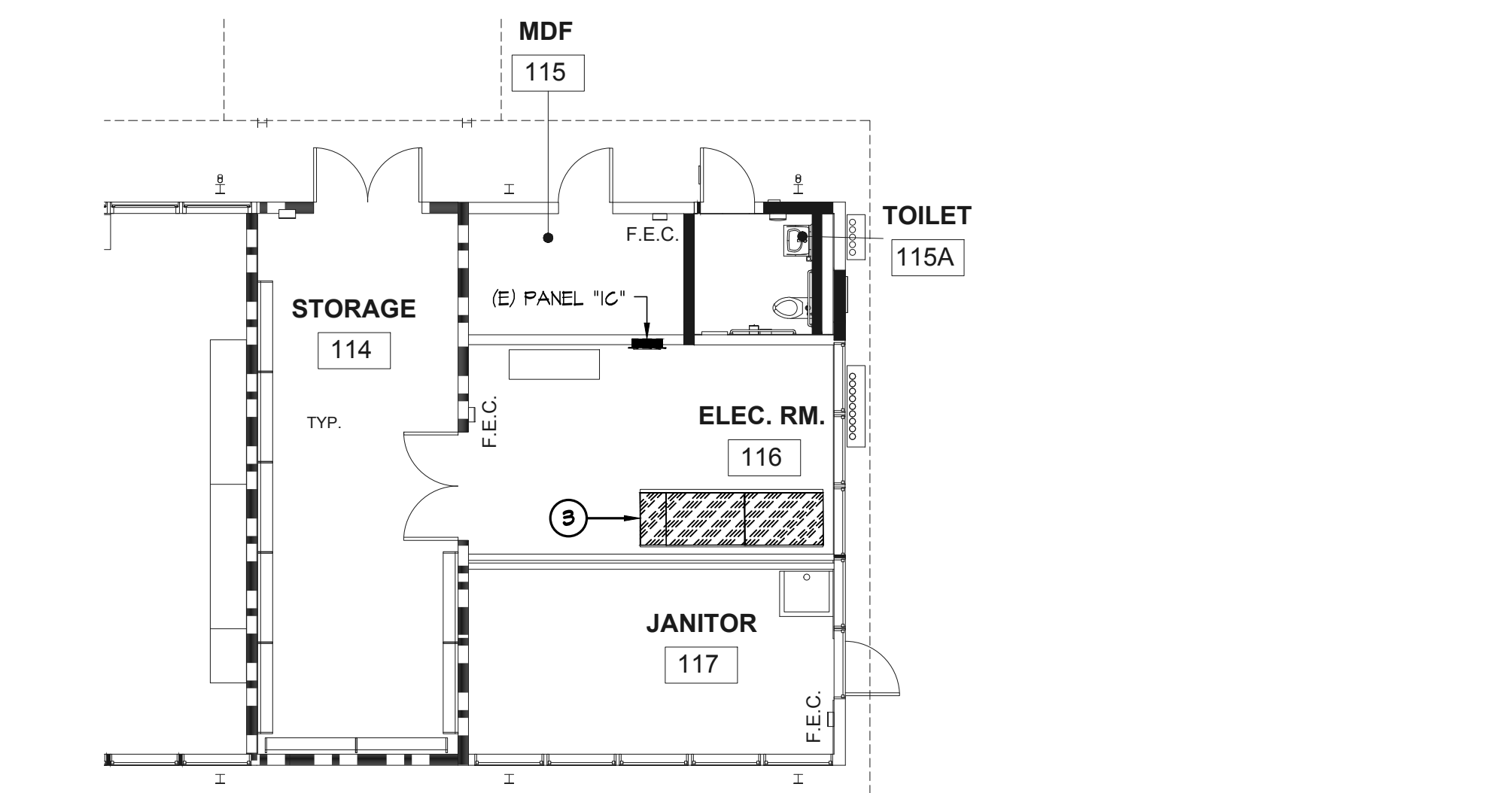


### GENERAL NOTES:

- CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DEMO REQUIREMENTS.
- EXISTING ELECTRICAL PANELS ARE TO REMAIN.
- SEE NEW ELECTRICAL FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
- SEE DEMO AND NEW SINGLE LINE DIAGRAMS FOR ADDITIONAL REQUIREMENTS.

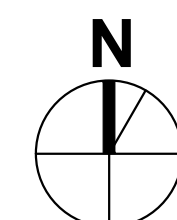
### DEMOLITION SHEET NOTES:

- EXISTING MECHANICAL UNIT TO BE DEMOLISHED. PULL EXISTING ELECTRICAL CIRCUITRY BACK TO SOURCE AND REMOVE. REMOVE ALL CONDUITS, J-BOXES AND DISCONNECT SWITCH ASSOCIATED WITH THE DEMOLISHED UNIT.
- EXISTING MECHANICAL UNIT AND CONNECTIONS TO REMAIN.
- EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL. REFER TO DEMOLITION SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.

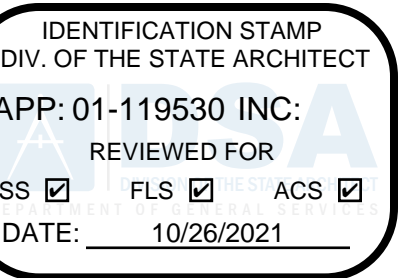
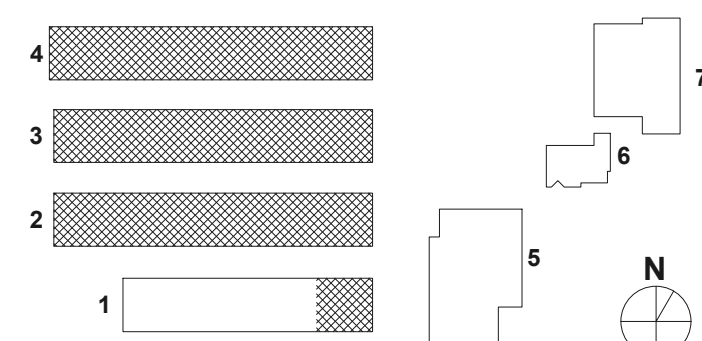


## 4 ELECTRICAL DEMO FLOOR PLAN - WING #1

E2.1 SCALE: 1/8" = 1'-0"



#### BUILDING KEY



aedis  
architects

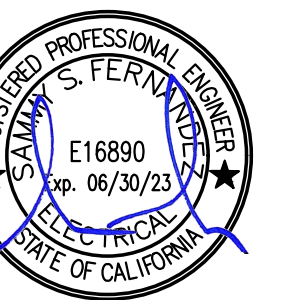
www.aedisarchitects.co  
387 S. 1st Street, Suite 301  
San Jose, CA 95111  
tel: (408)-300-5116  
fax: (408)-300-5112

#### PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT



American Consulting Engineer  
Electrical, Inc.

1080 The Meadows, Suite 200  
San Jose, CA 95128  
408/236-2211

#### STAMP

#### STATE

DSA FILE NUMBER 41-26  
APPL # 01-119530

#### REVISIONS

No. Description Date

1

#### MILESTONES

DD  
90% CD  
DSA SUB 05/26/2021  
BACKCHECK 10/07/2021

#### SHEET

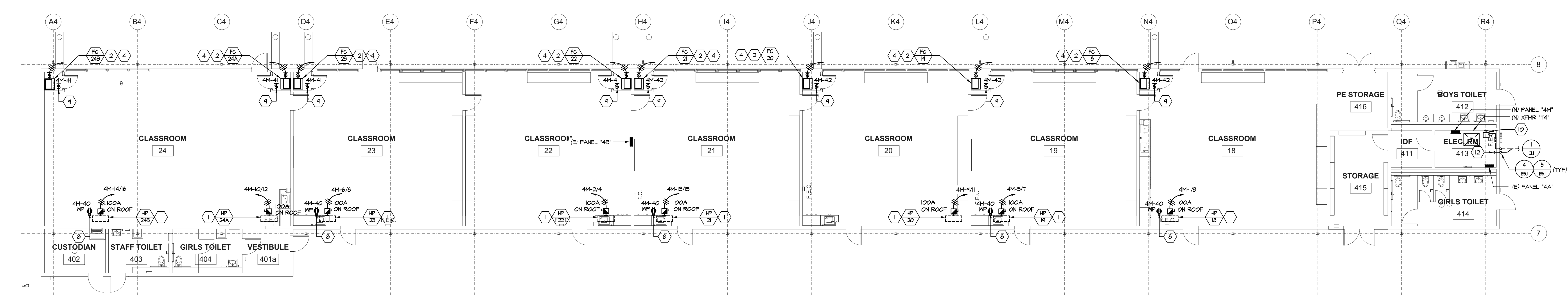
ELECTRICAL  
DEMO FLOOR  
PLANS -  
WINGS #1, #2, #3,  
& #4

DATE 10/07/2021  
JOB # 2021005.01

#### SHEET #

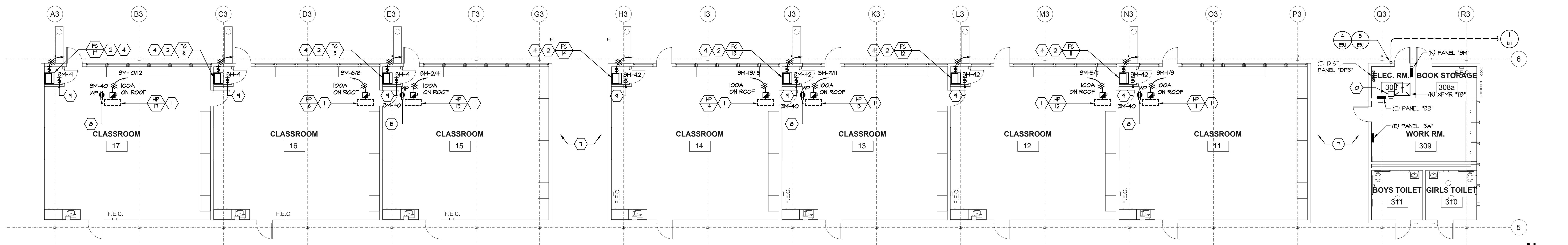
E2.1





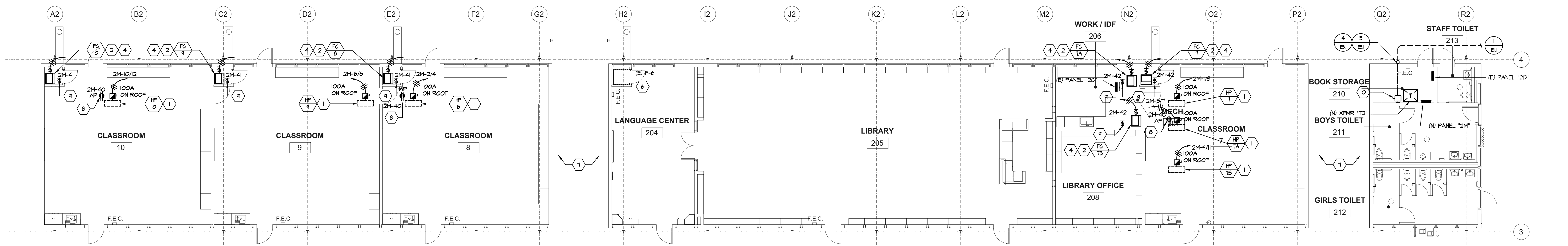
## 1 ELECTRICAL NEW FLOOR PLAN - WING #4

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



## 2 ELECTRICAL NEW FLOOR PLAN - WING #3

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



## 3 ELECTRICAL NEW FLOOR PLAN - WING #2

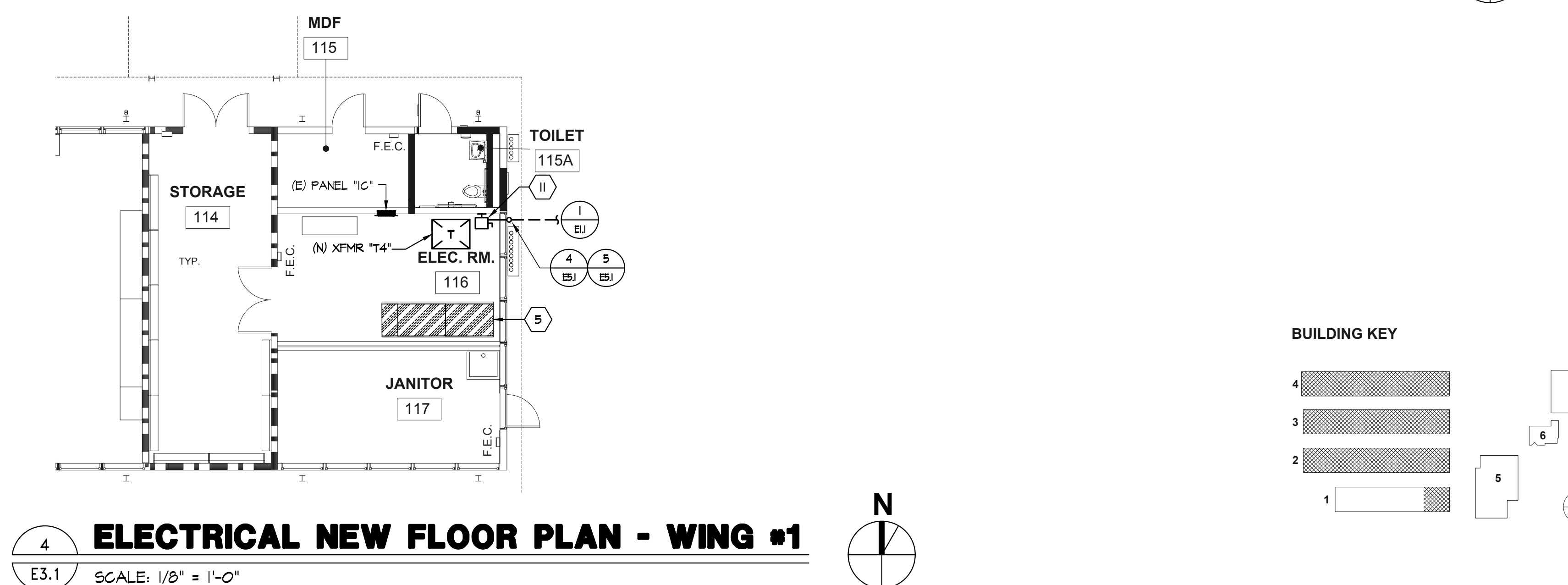
E3.1 SCALE: 1/8" = 1'-0"

### 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.

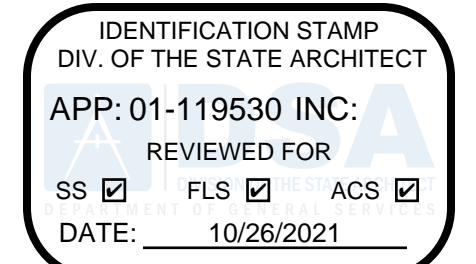
### SHEET NOTES:

- 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 MPO.02 FOR ADDITIONAL REQUIREMENTS.
- EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL.
- EXISTING MECHANICAL UNIT AND CONNECTIONS TO REMAIN.
- MOUNT CONDUIT ADJACENT TO CHASE AND ROUTE ACROSS THE HALLWAY.
- PROVIDE NEW WEATHERPROOF 6PFC RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON A WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER SHALL BE INTERMATIC INFOIMXD "BOSS".
- PROVIDE MOTOR RATED SWITCH AND 120V POWER FOR CONDENSATION PUMP.
- NEW 400A-3P, NEMA 1, UNFUSED DISCONNECT SWITCH.
- NEW 600A-3P, NEMA 1, UNFUSED DISCONNECT SWITCH.
- STUB COMMUNICATION CONDUITS INTO THE ROOM. PROVIDE END BUSHINGS FOR CABLE PROTECTION.



## 4 ELECTRICAL NEW FLOOR PLAN - WING #1

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



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architects

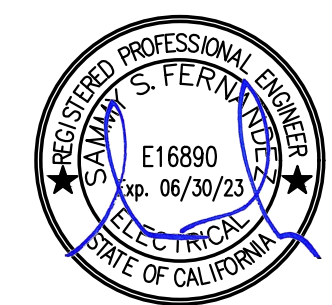
www.aedisarchitects.com  
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fax: (408)-300-5112

PROJECT

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
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APPL # 01-119530

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ELECTRICAL  
NEW FLOOR  
PLANS -  
WINGS #1, #2, #3,  
& #4

DATE 10/07/2021  
JOB # 2021005.01  
SHEET #

E3.1



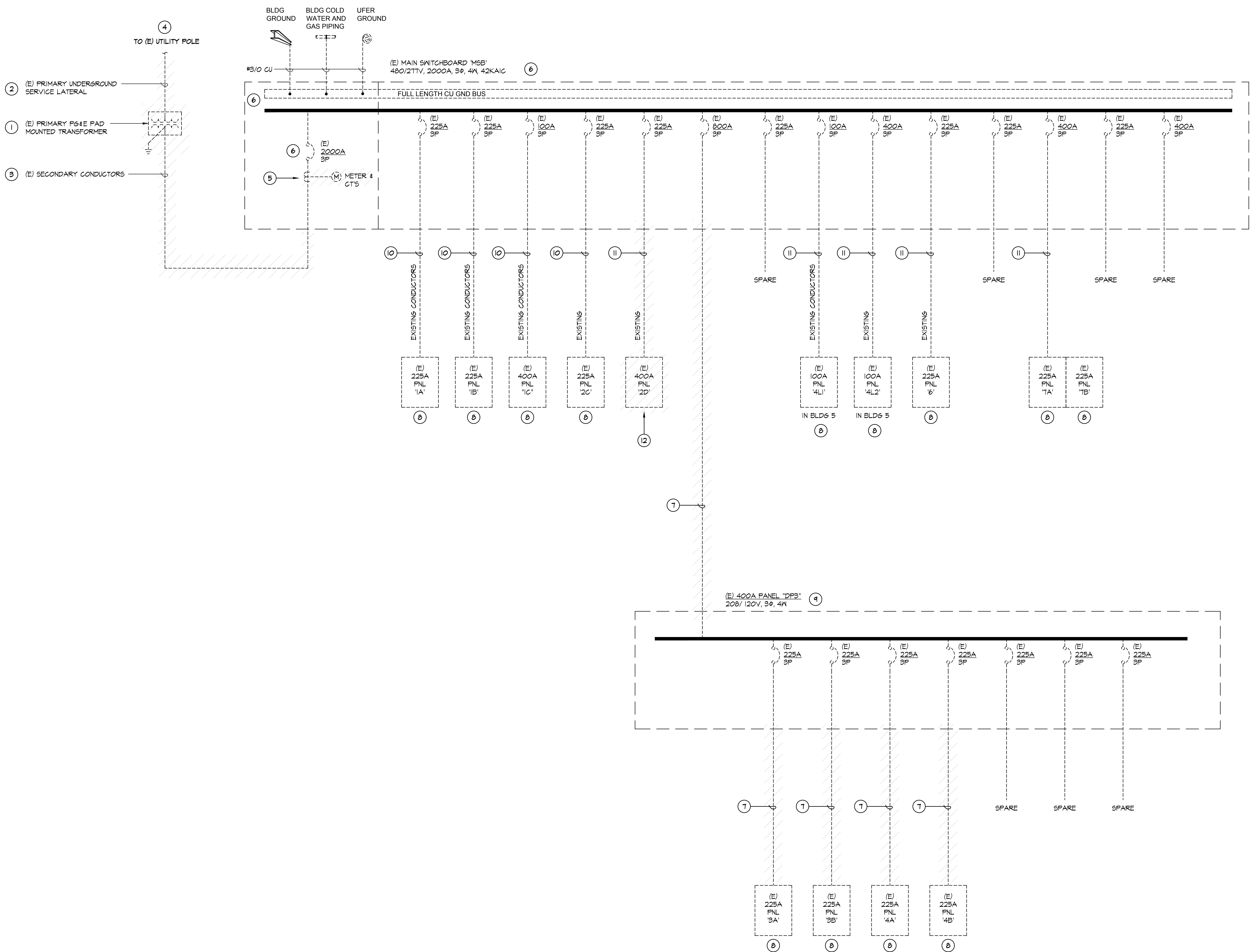


## GENERAL NOTES:

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 P64E UTILITY COMPANY FOR THE DISCONNECTING AND REMOVAL OF ALL ASSOCIATED EQUIPMENT AND CABLES.

## DEMOLITION SHEET NOTES:

1. EXISTING P64E TRANSFORMER TO BE DISCONNECTED AND REMOVED BY P64E. COORDINATE REMOVAL WITH P64E.
2. EXISTING P64E PRIMARY CONDUCTORS TO BE REMOVED BY P64E. COORDINATE REMOVAL WITH P64E.
3. EXISTING P64E SECONDARY CONDUCTORS AND GROUNDING CONDUCTORS TO BE REMOVED BY P64E. COORDINATE REMOVAL WITH P64E.
4. EXISTING P64E UTILITY POLE TO REMAIN.
5. EXISTING P64E METER, CTS AND PTS TO BE DISCONNECTED AND REMOVED BY P64E. COORDINATE REMOVAL WITH P64E.
6. EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL "DP1". 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 PANEL TO REMAIN.
9. EXISTING DISTRIBUTION PANEL TO DISCONNECTED AND DEMOLISHED.
10. EXISTING FEEDER CABLES TO REMAIN.
11. EXISTING FEEDER CABLES TO BE MODIFIED TO FACILITATE NEW WORK.
12. EXISTING ELECTRICAL PANEL TO BE DISCONNECTED AND DEMOLISHED.







## GENERAL NOTES:

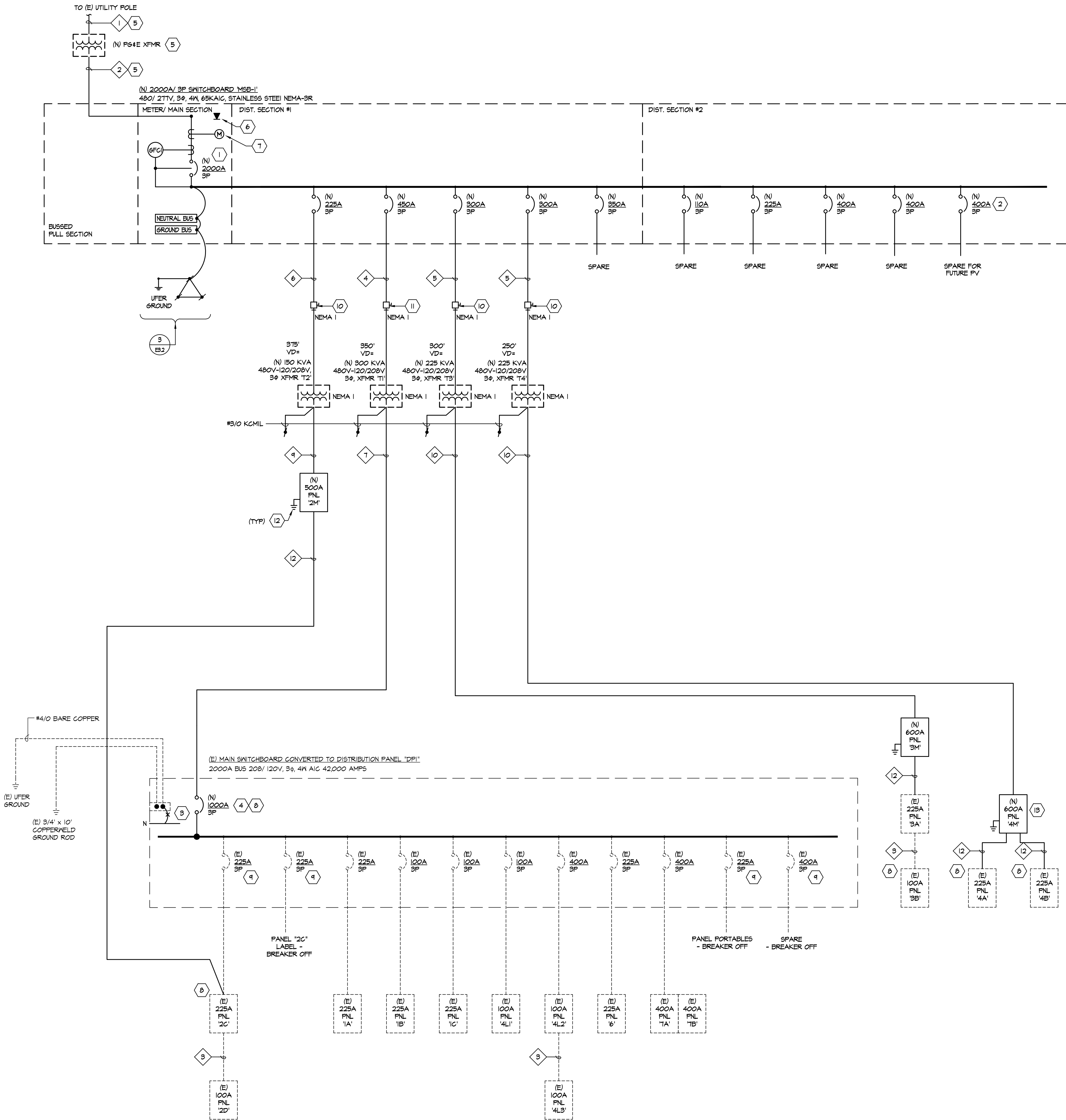
- SEE DETAIL 2/E3.2 FOR GROUNDS AT SWITCHBOARD ENCLOSURE REQUIREMENTS.
- SEE DETAIL 3/E3.2 FOR MAIN SWITCHBOARD GROUNDING REQUIREMENTS.
- SEE DETAIL 5/E3.2 FOR TRANSFORMER GROUNDING REQUIREMENTS.
- ALL TRANSFORMERS SHALL BE CLASS 155 INSULATION - COMPLETELY ENCLOSED EXCEPT FOR VENTILATION.
- SEE ENLARGED SWITCHGEAR PLAN FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL OBTAIN THE P64E SUBSTRUCTURE PACKAGE PRIOR TO ANY RELATED WORK. THE CONTRACTOR SHALL COORDINATE ALL P64E INSTALLATION REQUIREMENTS WITH P64E GREENBOOK AND P64E SUBSTRUCTURE PACKAGE.
- SEE THE ENLARGED SITE DEMO SITE PLAN AND DEMO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE THE REQUIRED ARC FLASH HAZARD WARNING LABEL TO MEET THE REQUIREMENTS OF CEC 10C16. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE MAINTENANCE SWITCH FOR ARC ENERGY REDUCTION TO MEET THE REQUIREMENTS OF CEC 240.8.T.

## SHEET NOTES:

- MAIN BREAKER SHALL BE 6FCI PER NEC.
- FV BREAKER TO BE INSTALLED AT THE FURTHEST POINT ON THE BUS BAR.
- DISCONNECT THE EXISTING MAIN BONDING JUMPER FROM THE GROUND BUS TO THE NEUTRAL BUS.
- REMOVE EXISTING 2000A MAIN CIRCUIT BREAKER AND REPLACE WITH NEM 1000A MAIN CIRCUIT BREAKER AS REQUIRED TO CONVERT THE EXISTING MAIN SWITCHBOARD TO DISTRIBUTION PANEL "DPI". CONNECT NEW FEEDERS TO "DPI" AS REQUIRED.
- INSTALL PER P64E AND P64E GREENBOOK REQUIREMENTS.
- PROVIDE TWO DEDICATED TELEPHONE LINES FROM THE MAIN SWITCHBOARD TO THE TELEPHONE HPOE PER P64E REQUIREMENTS. MOUNT TELEPHONE OUTLETS INSIDE METER SECTION FOR THE MAIN SWITCHBOARD BEHIND THE SWITCHBOARDS DOORS. MOUNT IN NEMA-3R JUNCTION BOX.
- PROVIDE P64E METER PER P64E REQUIREMENTS.
- COORDINATE THE DISCONNECT AND REMOVAL OF THE EXISTING FEEDERS WITH THE PROJECT SCHEDULE AFTER REMOVAL OF EXISTING FEEDERS AND CONDUITS. CONTRACTOR SHALL RECONNECT PANEL WITH NEW FEEDERS AND CONDUIT AS SHOWN.
- TURN OFF CIRCUIT BREAKER AND LABEL AS SPARE.
- PROVIDE 400A-3P 600V, HEAVY DUTY, DISCONNECT SWITCH FOR TRANSFORMER.
- PROVIDE 600A-3P 600V, HEAVY DUTY, DISCONNECT SWITCH FOR TRANSFORMER.
- PROVIDE GROUNDING PER CEC.
- PROVIDE (2) 225A-3P SUBFEED CIRCUIT BREAKERS IN NEM PANEL AS NEEDED.

## CABLE SCHEDULE:

- (N) 1) 4" C - P64E PRIMARY.
- (N) 1) 5" C - P64E SECONDARY.
- (E) FEEDER TO REMAIN.
- (N) 2 SETS - (N) 2.5" C - (N) 3#250 + 1#2 GND.
- (N) 3" C - (N) 3#350 + (1) #4 GND.
- (N) 2.5" C - (N) 3#4/0 + (1) #4 GND.
- (N) 3 SETS - (N) 3" C - (N) 4#400 + 1#3/0 GND.
- (N) 2" C - (N) 3#1 + 1#6 GND.
- (N) 2 SETS - (N) 3" C - (N) 4#250 + 1#1/0 GND.
- (N) 2 SETS - (N) 3" C - (N) 4#350 + 1#2/0 GND.
- (N) 2.5" C - (N) 4#4/0 + 1#2 GND.
- (N) 2.5" C - (N) 4#4/0 + 1#4 GND.
- (N) 4" C - (N) 4#500 + 1#3 GND.
- (N) 1.5" C - (N) 4#2 + 1#3 GND.





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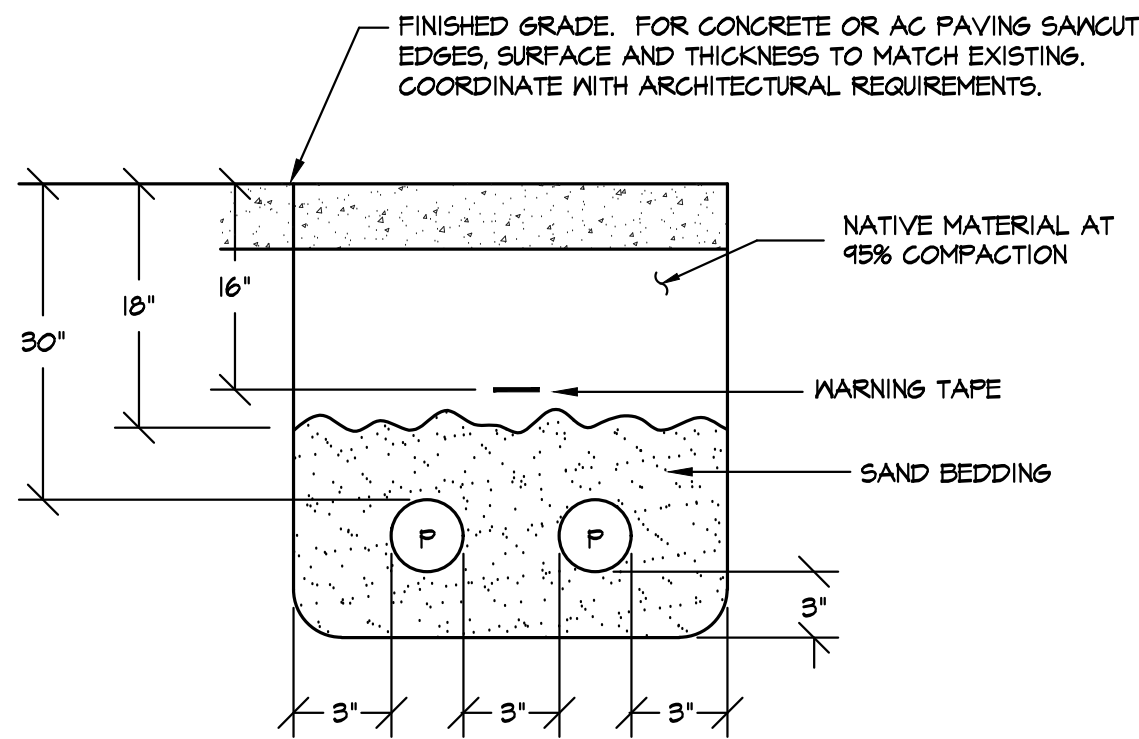
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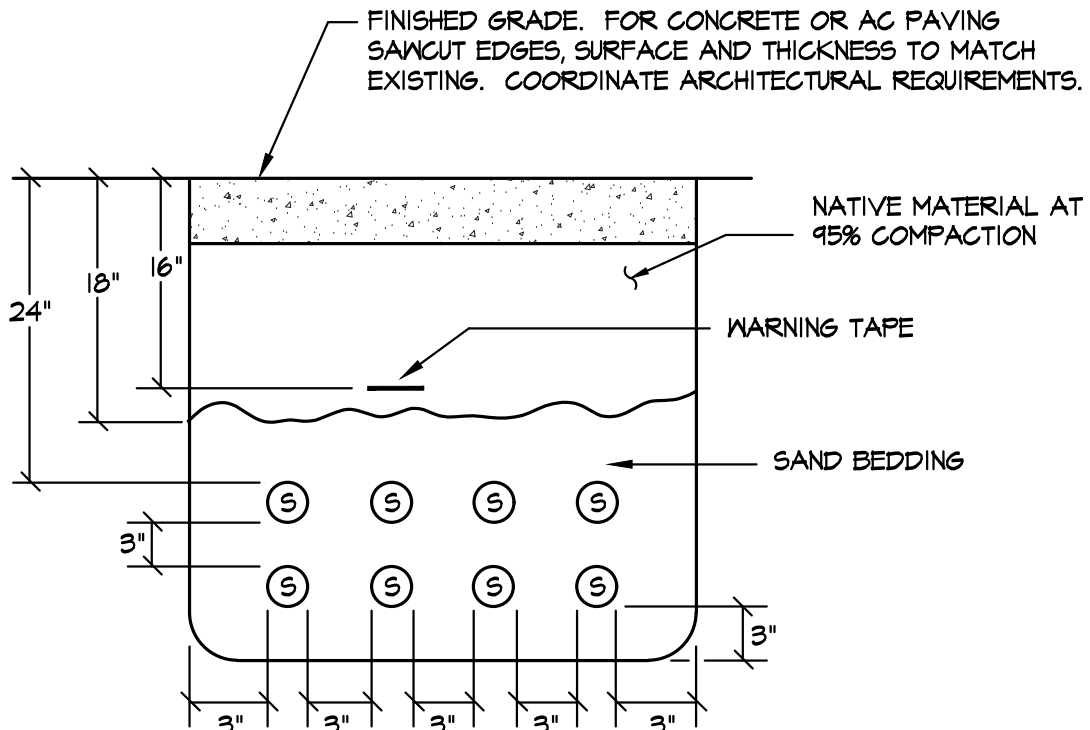




1. TRENCH PER PG&E STANDARDS  
P - PRIMARY

## PG&E TRENCH DETAIL PRIMARY SIDE

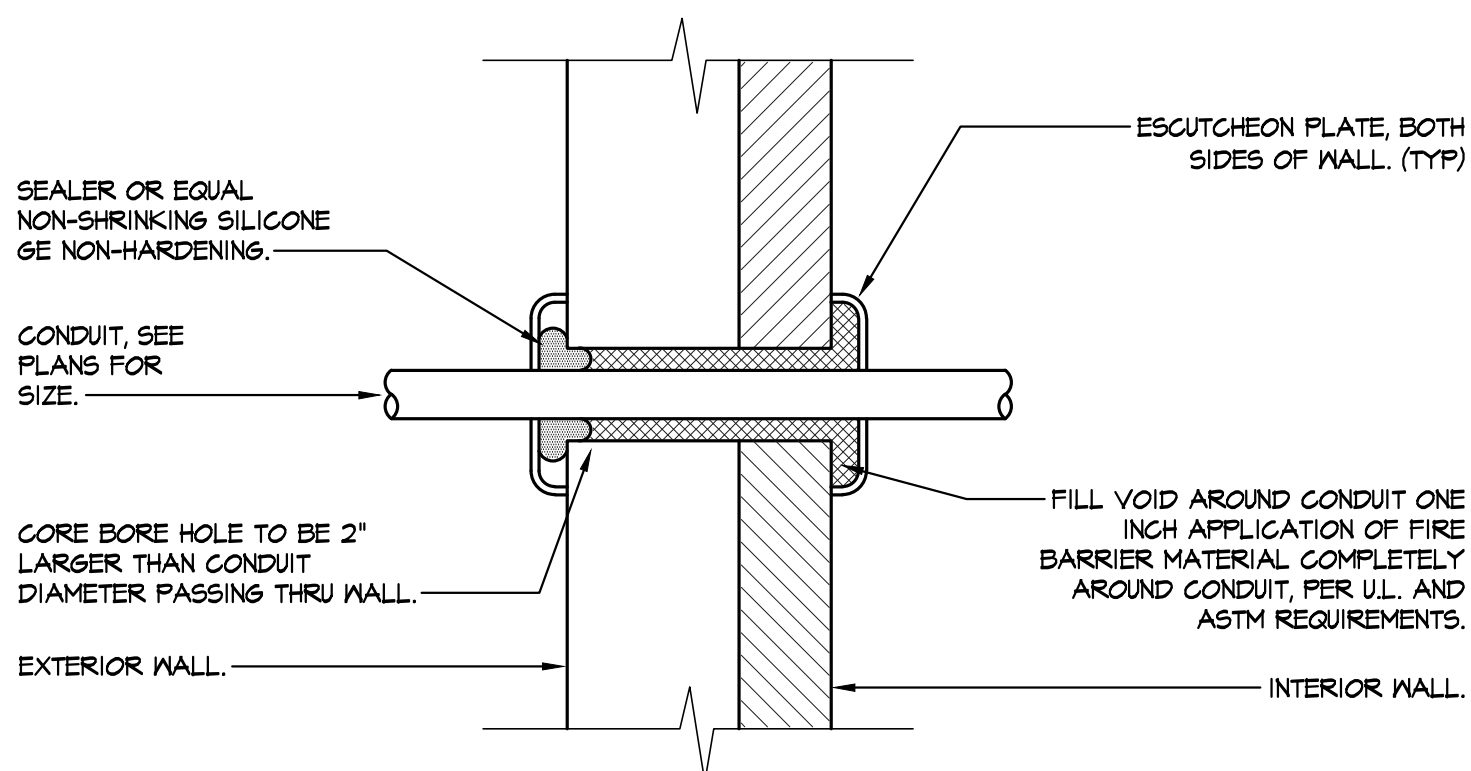
1  
E5.1 NOT TO SCALE



1. TRENCH PER PG&E STANDARDS  
S - SECONDARY

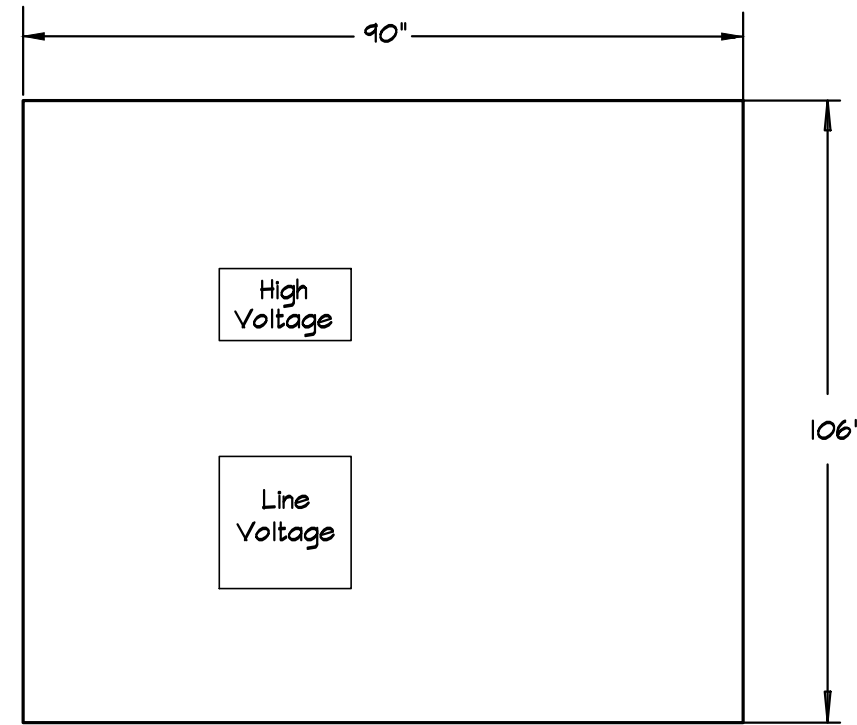
## PG&E TRENCH DETAIL SECONDARY SIDE

3  
E5.1 NOT TO SCALE



## CONDUIT WALL PENETRATION DETAIL

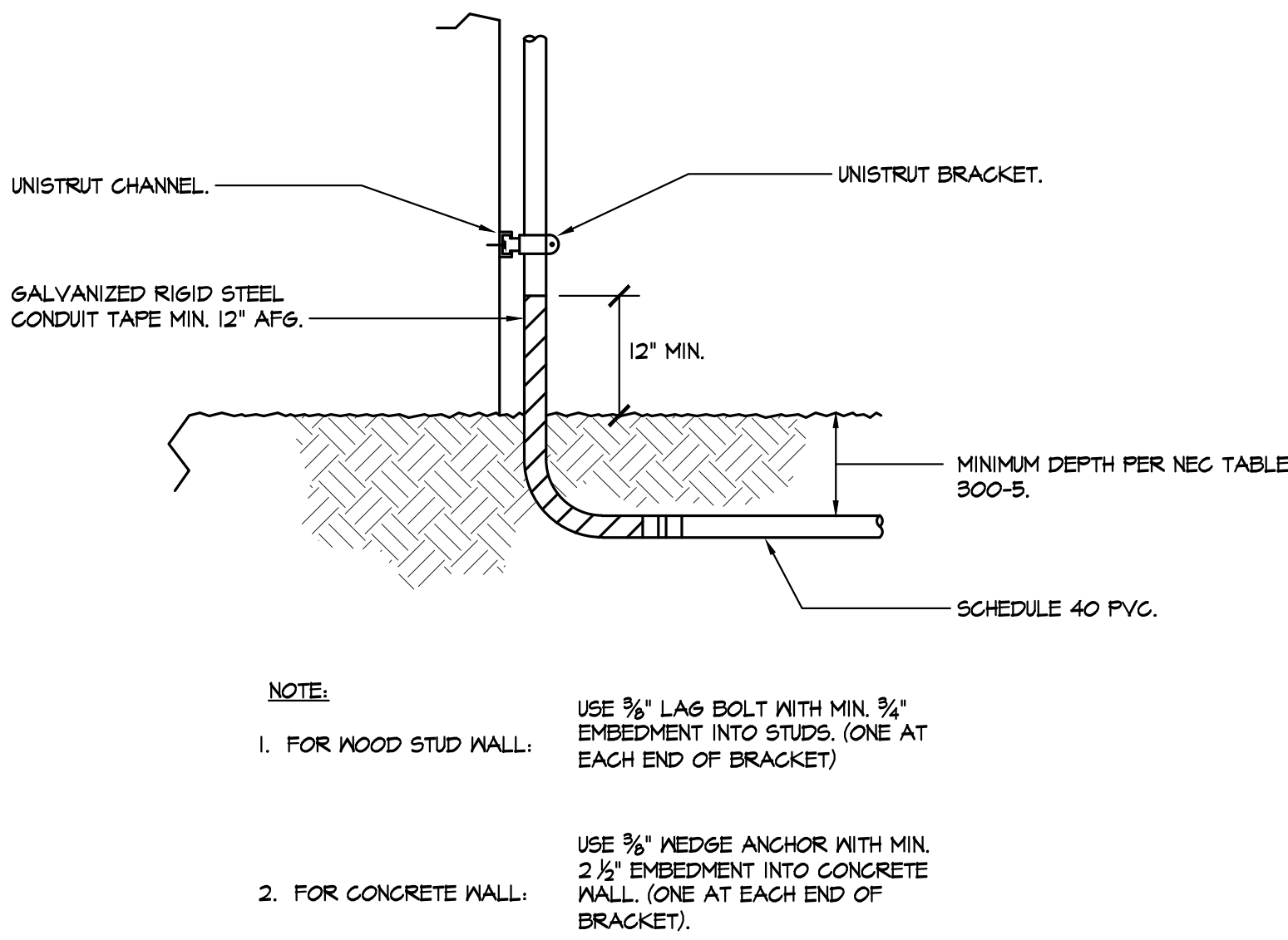
6  
E5.1 NOT TO SCALE



PAD SHALL BE PG&E TYPE IIE PER PG&E REQUIREMENTS.  
PAD SHALL BE JENSEN PG&E 040242 OR EQUAL.  
THIS PAD TO BE INSTALLED PER PG&E REQUIREMENTS AND PG&E GREEN BOOK. THIS PAD IS UNDER PG&E JURISDICTION AND PROPERTY EASEMENT.  
PAD SHALL CONFORM TO ALL REQUIREMENTS OF UTILITY "PG&E" REFER TO PG&E CONTRACTOR DOCUMENTS FOR FINAL REQUIREMENTS AND APPROVED VENDORS FOR "PRE-CAST" PADS.

## PG&E TRANSFORMER PAD DETAIL

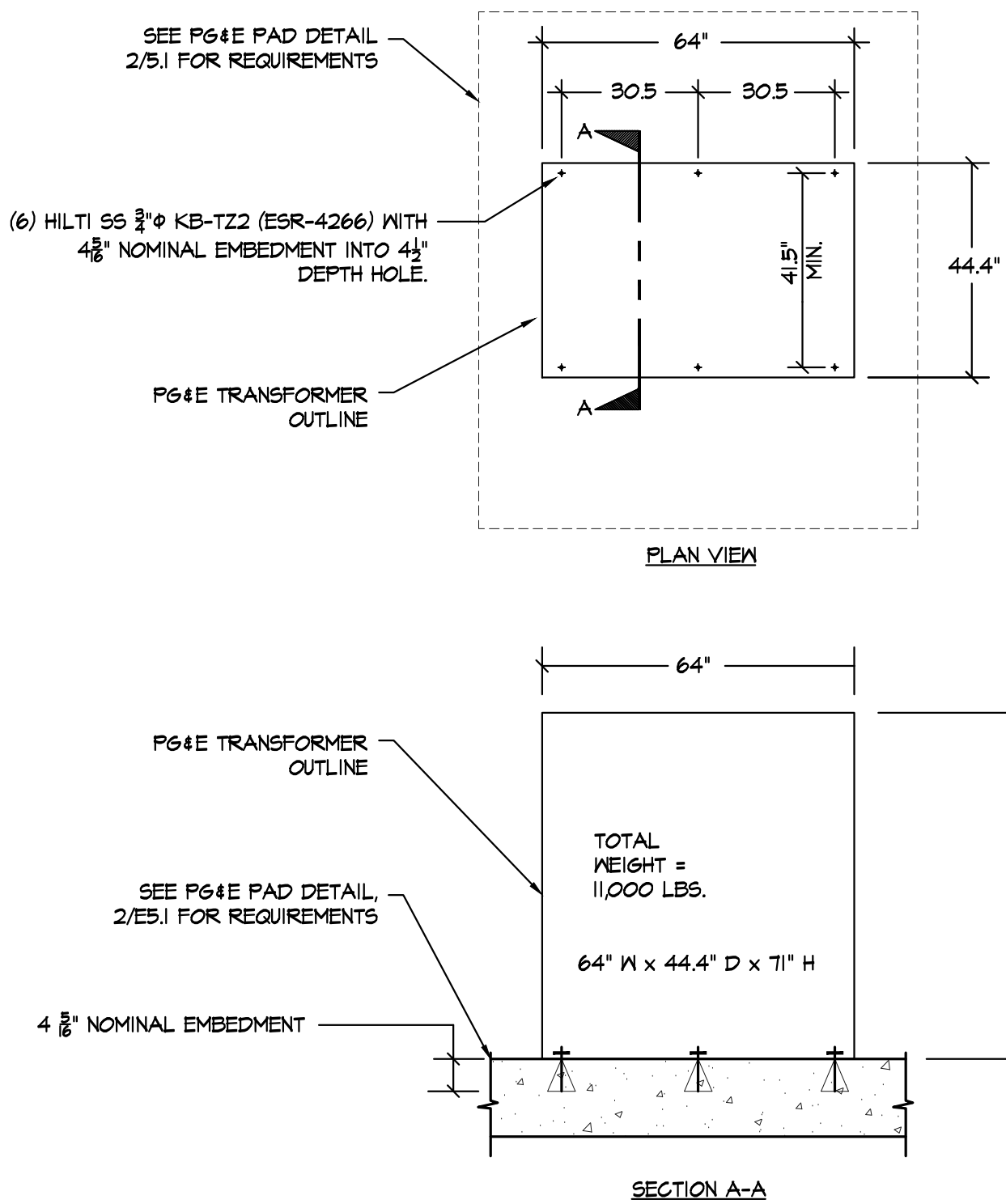
2  
E5.1 NOT TO SCALE



NOTE:  
1. FOR WOOD STUD WALL: USE 3/8" LAG BOLT WITH MIN. 3/4" EMBEDMENT INTO STUDS, (ONE AT EACH END OF BRACKET)  
2. FOR CONCRETE WALL: USE 3/8" WEDGE ANCHOR WITH MIN. 2 1/2" EMBEDMENT INTO CONCRETE WALL, (ONE AT EACH END OF BRACKET).

## UNDERGROUND CONDUIT RISER DETAIL

4  
E5.1 NOT TO SCALE



PG&E TRANSFORMER OUTLINE  
TOTAL WEIGHT = 10000 LBS.  
64" W X 44.4" D X 71" H  
4 3/8" NOMINAL EMBEDMENT  
SEE PG&E PAD DETAIL 2/ES.1 FOR REQUIREMENTS

## PG&E TRANSFORMER ANCHORAGE DETAIL

7  
E5.1 NOT TO SCALE

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

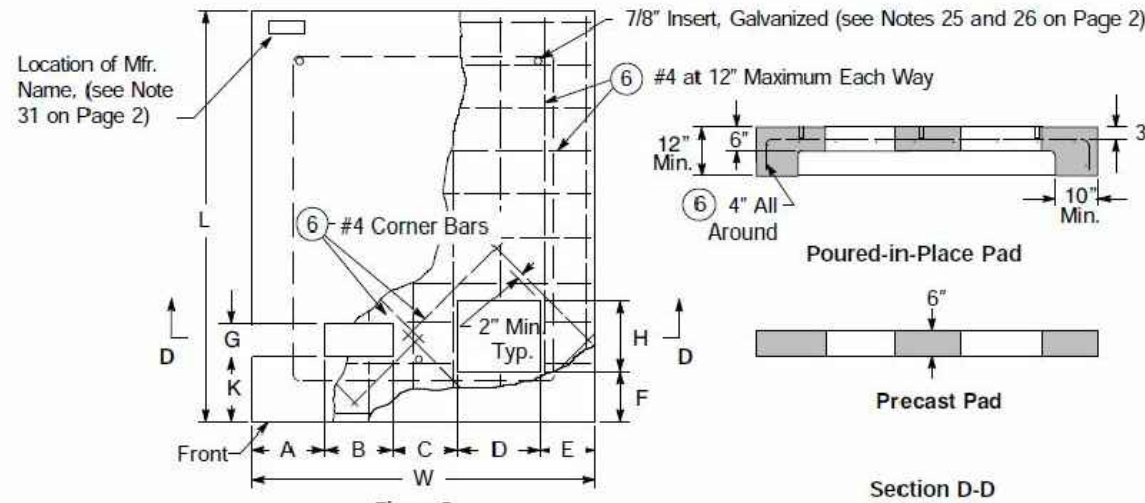


Figure 5  
Construction Details of Style IID, IIE, IIG Pad  
(see Figure 2 on Page 6 for pad arrangement)

| Transformer |                      | Pad Dimensions (inches)          |    |    |    |    |    |    |   |    |    |     | Code      |
|-------------|----------------------|----------------------------------|----|----|----|----|----|----|---|----|----|-----|-----------|
| Style       | kVA Size             | Approximate Maximum Weight (lbs) | A  | B  | C  | D  | E  | F  | G | H  | K  | L   |           |
| IID and IIE | 75                   | 4,600                            | 17 | 16 | 15 | 19 | 13 | 10 | 6 | 17 | 14 | 61  | 80 040291 |
|             | (112.5) <sup>2</sup> | 4,800                            |    |    |    |    |    |    |   |    |    |     |           |
|             | 150                  | 5,000                            |    |    |    |    |    |    |   |    |    |     |           |
| IIE         | (225) <sup>2</sup>   | 5,500                            | 22 | 16 | 15 | 20 | 17 | 20 | 6 | 19 | 25 | 106 | 90 040292 |
|             | 300                  | 5,800                            |    |    |    |    |    |    |   |    |    |     |           |
|             | (500) <sup>2</sup>   | 6,100                            |    |    |    |    |    |    |   |    |    |     |           |
| IIG         | 750                  | 9,000                            | 22 | 16 | 15 | 20 | 17 | 20 | 6 | 19 | 25 | 106 | 90 040292 |
|             | 1,000                | 11,000                           |    |    |    |    |    |    |   |    |    |     |           |
|             | 1,500                | 13,000                           |    |    |    |    |    |    |   |    |    |     |           |
| IIE         | 2,500                | 16,000                           | 22 | 16 | 15 | 20 | 17 | 20 | 6 | 19 | 25 | 106 | 90 040292 |
|             | 2955/3325            | 22,000                           |    |    |    |    |    |    |   |    |    |     |           |

<sup>1</sup> See Document 066211 for approved suppliers.  
<sup>2</sup> ( ) = Indicates a kVA size that is no longer purchased.

### Pad Arrangements for Style IID, IIE, and IIG Transformers

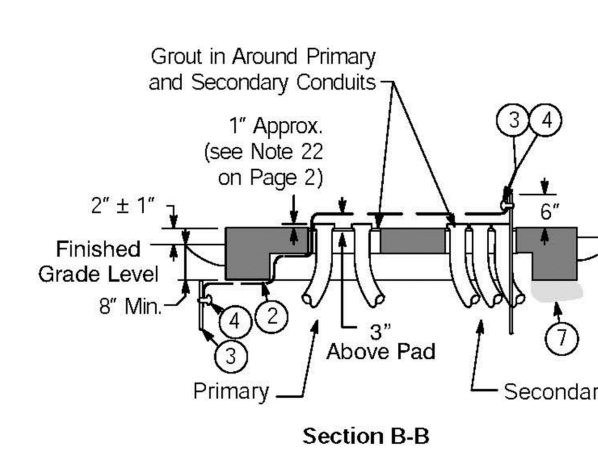
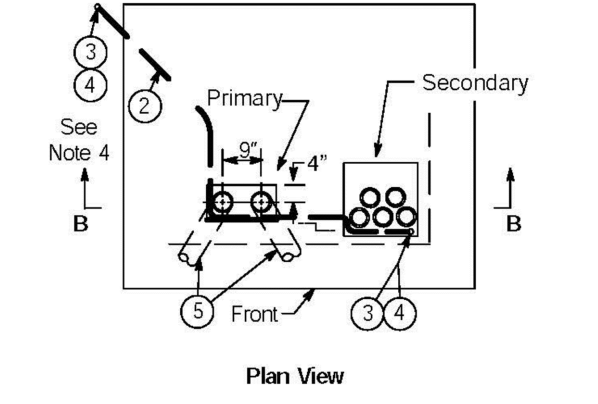
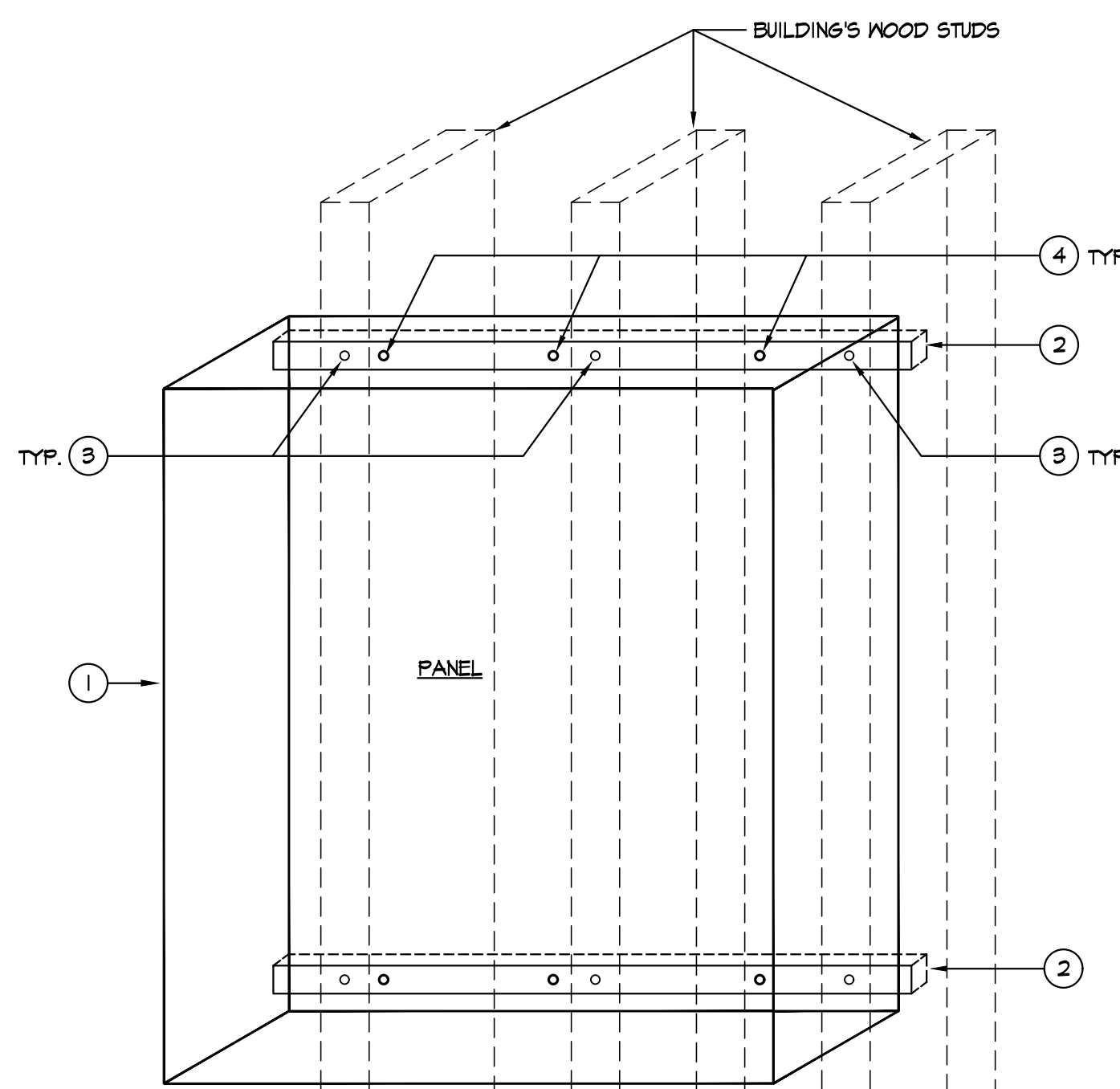


Figure 2  
Loop Installation of Style IID, IIE, and IIG Pad  
Arrangement, Poured-in-Place Pad Shown

## CONDUIT RISER AND WALL PENETRATION - POWER

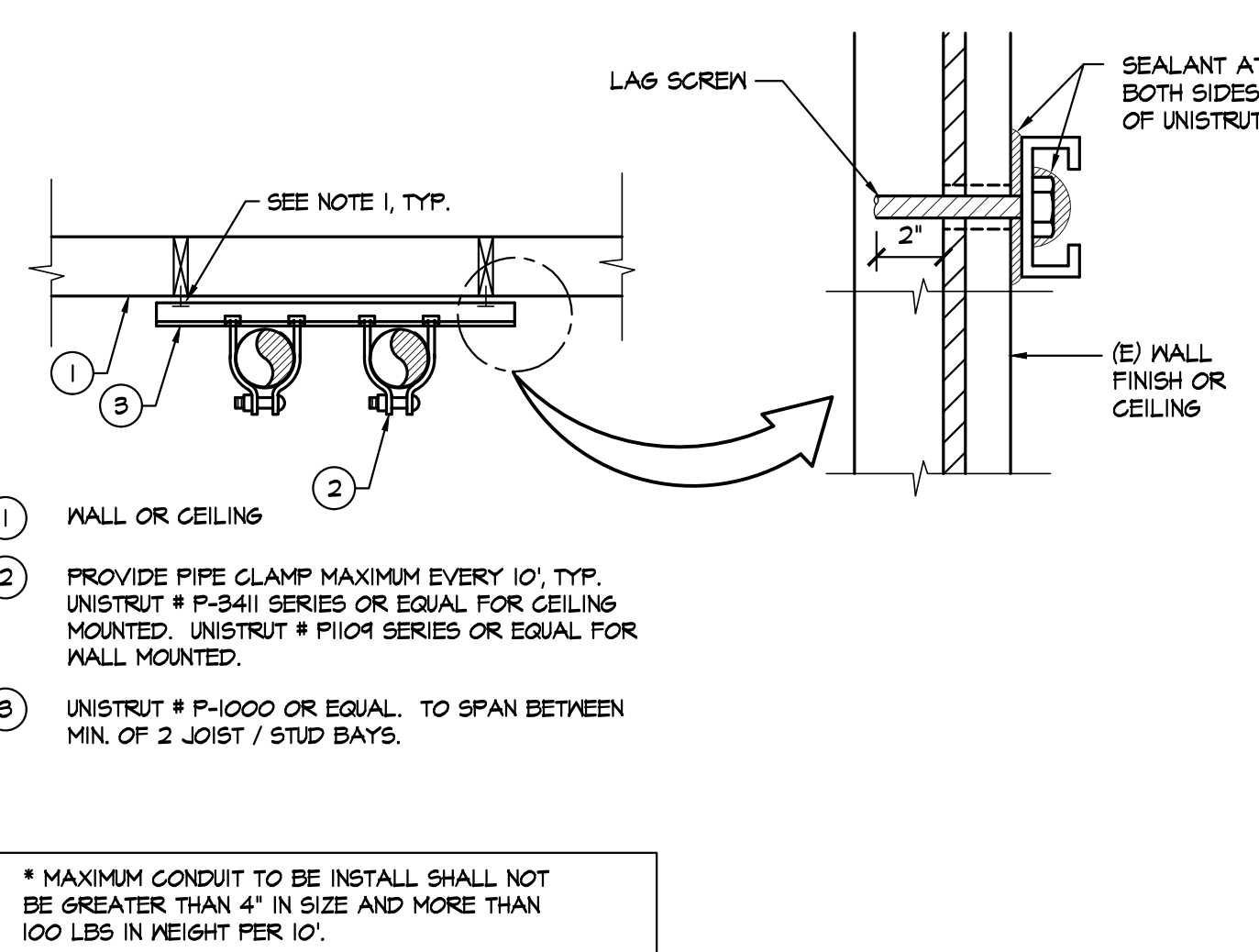
5  
E5.1 NOT TO SCALE



- NEMA-1 ELECTRICAL PANEL (200 LBS).
- UNISTRUT #1000 MIN. 50" SPANNING OVER 3 STUDS.
- 3/8" LAG SCREEN. SCREEN SHALL PENETRATE MINIMUM 3". CENTER ON STUDS.
- PROVIDE 3/8" HEX HEAD CAP SCREEN (MIN. OF 3) WITH 3/8" CHANNEL NUT.

## 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 HEIGHT PER 10'.

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

## TYPICAL CONDUIT SUPPORT DETAIL

9  
E5.1 SCALE: NOT TO SCALE



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**American Consulting Engineer  
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**ELECTRICAL  
DETAILS**

DATE

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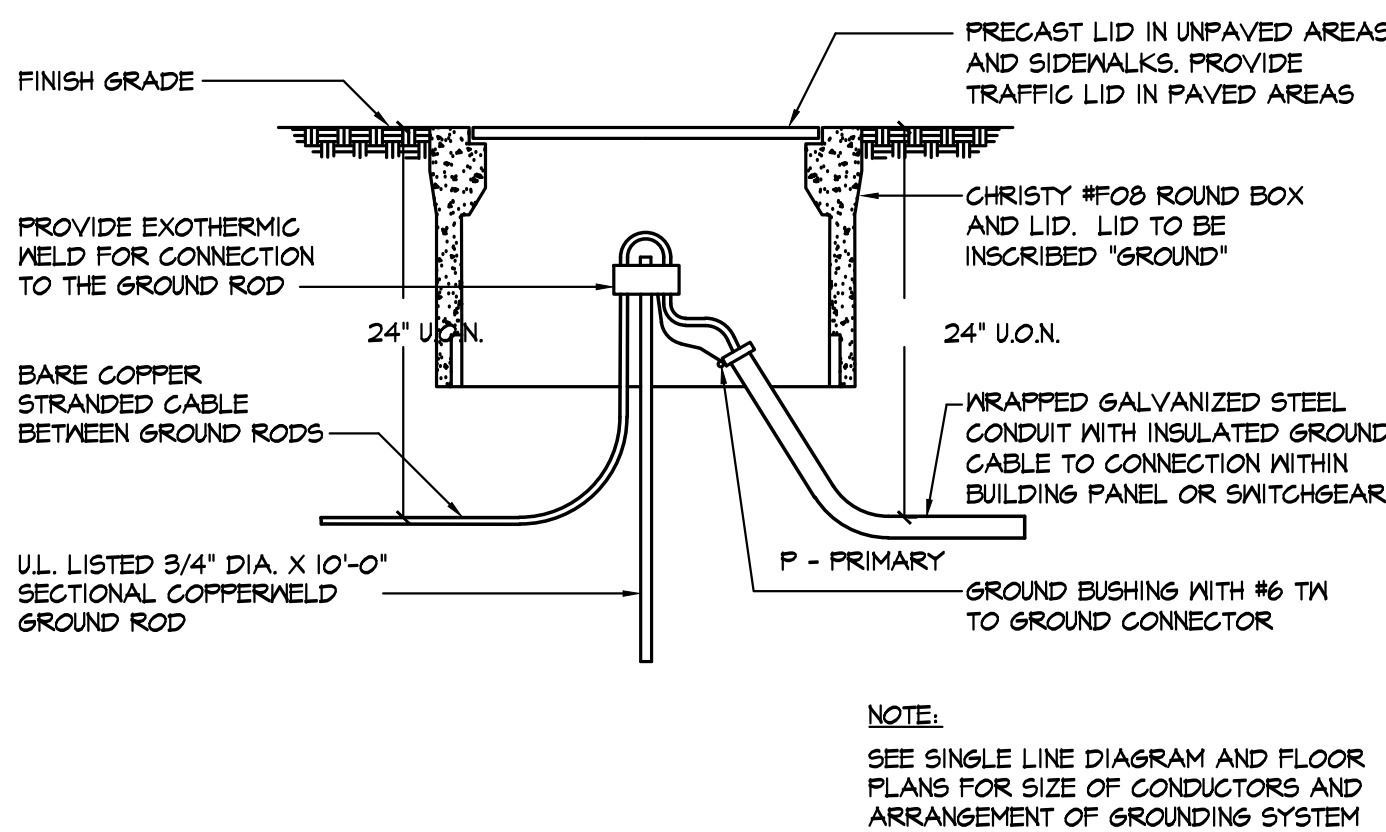
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E5.2

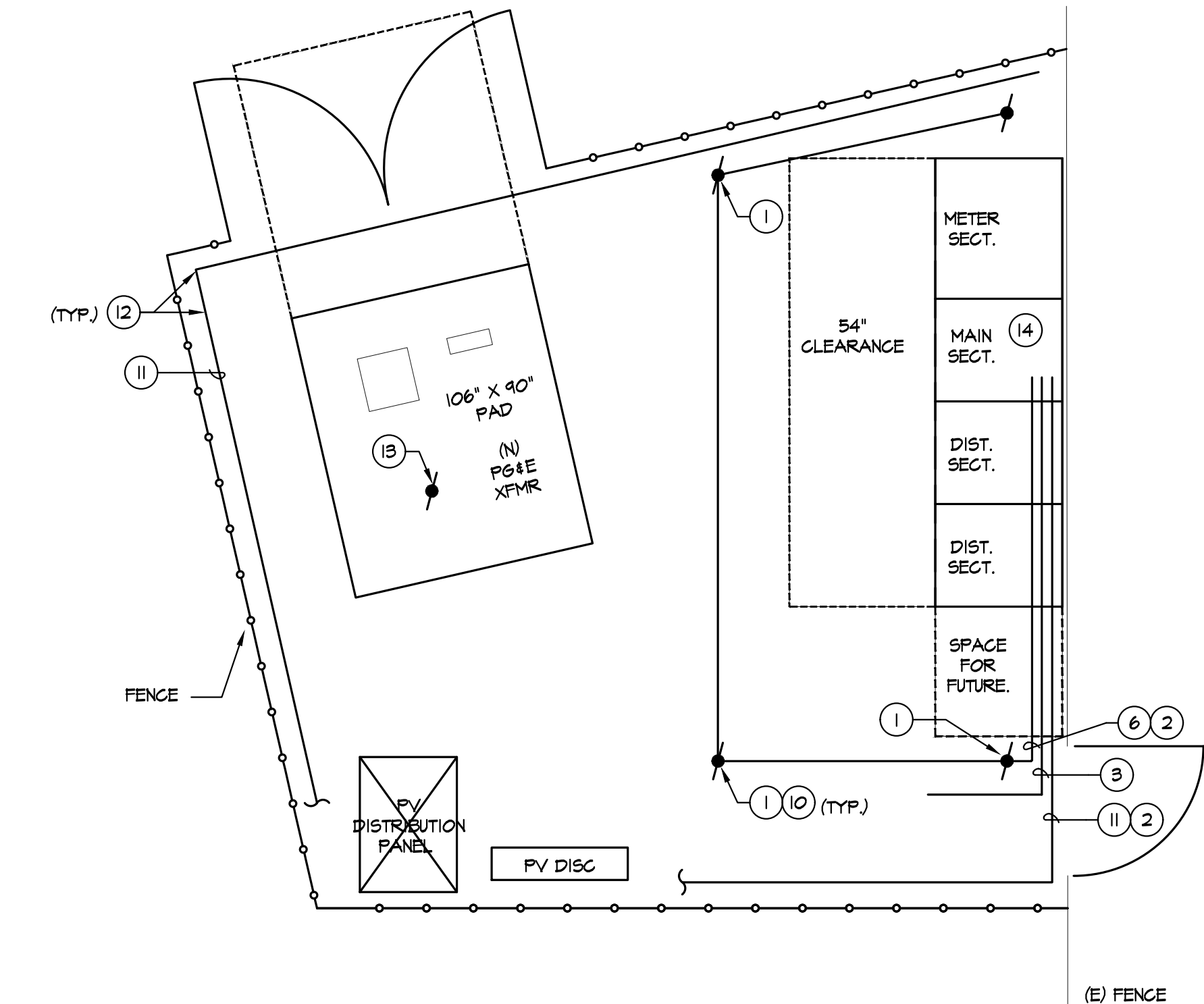
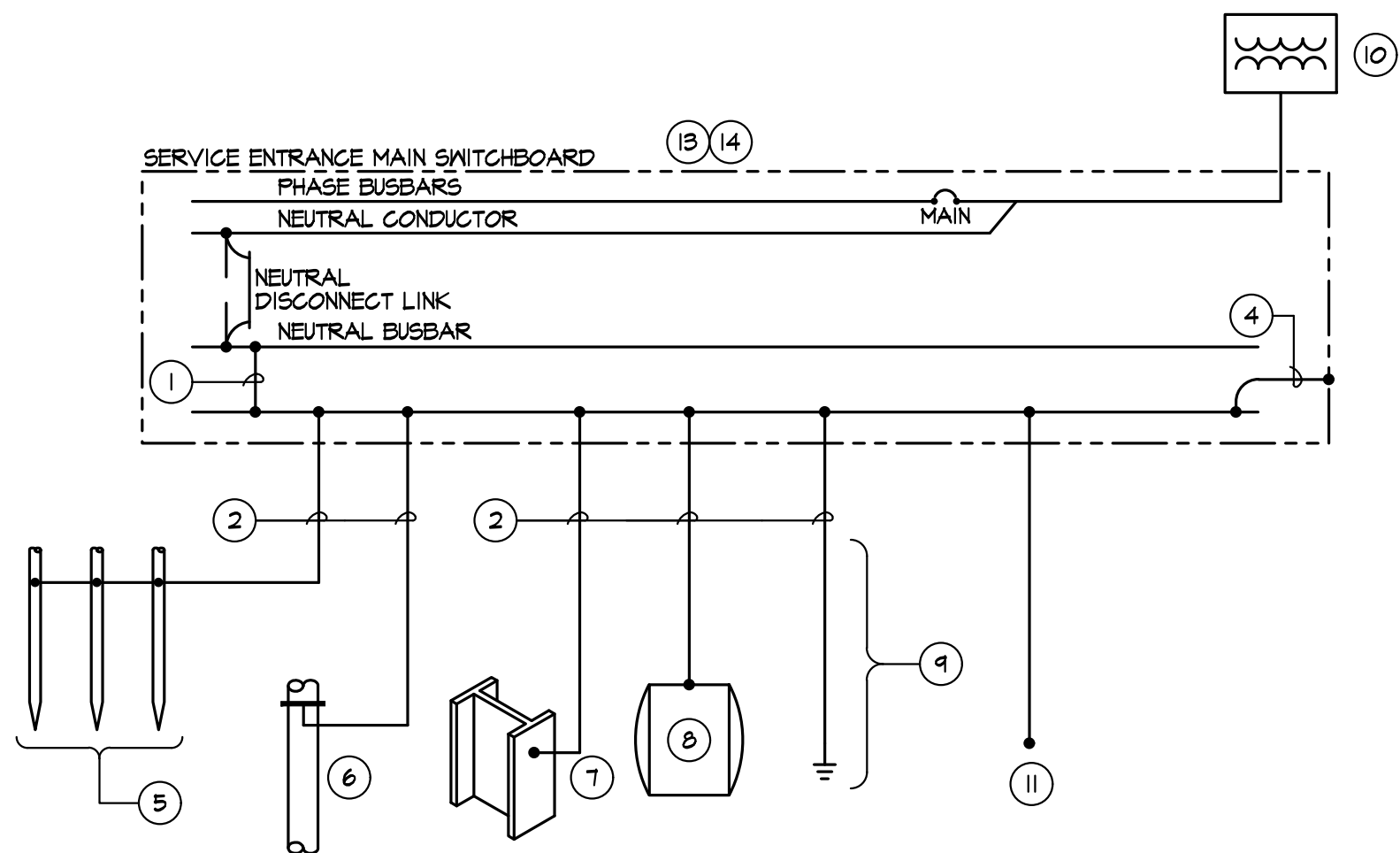
## GROUNDING DETAIL NOTES:

- 1 GROUND ROD. SEE DETAIL 1/E5.2 FOR REQUIREMENTS.
- 2 GADWELD GROUNDING ELECTRODE CONDUCTOR TO THE REBAR.
- 3 UFER GADWELD TO REBAR +20' OF BARE COPPER ENCASED.
- 4 NOT USED.
- 5 NOT USED.
- 6 #3/0 BARE COPPER MAIN SWITCHBOARD GROUNDING ELECTRODE CONDUCTOR. CONDUCTOR SHALL BE INSTALLED ENCASED IN THE CONCRETE SLAB.
- 7 #3/0 BARE COPPER TRANSFORMER GROUNDING ELECTRODE CONDUCTOR. CONDUCTOR SHALL BE INSTALLED ENCASED IN THE CONCRETE SLAB TO THE GROUND ROD AND GADWELD TO THE GROUND ROD.
- 8 NOT USED.
- 9 ALL INTERSECTIONS OF GROUNDING CONDUCTORS SHALL BE GADWELD TOGETHER.
- 10 GROUND RODS SHALL BE INSTALLED A MINIMUM 10' APART.
- 11 #3/0 BARE COPPER FENCE GROUNDING CONDUCTOR. CONDUCTOR SHALL BE INSTALLED ENCASED IN THE CONCRETE SLAB.
- 12 PROVIDE T INTERSECTION AND EXTEND #3/0 CONDUCTORS ABOVE THE SLAB ADJACENT TO THE FENCE POST. COORDINATE INSTALLATION WITH FENCE SLEEVES AND FENCE POST INSTALLER. T INTERSECTION SHALL BE GADWELD. SEE 3/E5.2 AND 4/E5.2 FOR ADDITIONAL INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR FENCE POST QUANTITY. TYPICAL FOR ALL FENCE POSTS.
- 13 PROVIDE GROUND ROD PER F64E GREENBOOK REQUIREMENTS.
- 14 SEE DETAIL 3/E5.2 FOR ADDITIONAL GROUNDING REQUIREMENTS.



## GROUND ROD INSPECTION WELL FOR MULTIPLE GROUND RODS

1  
E5.2 NOT TO SCALE

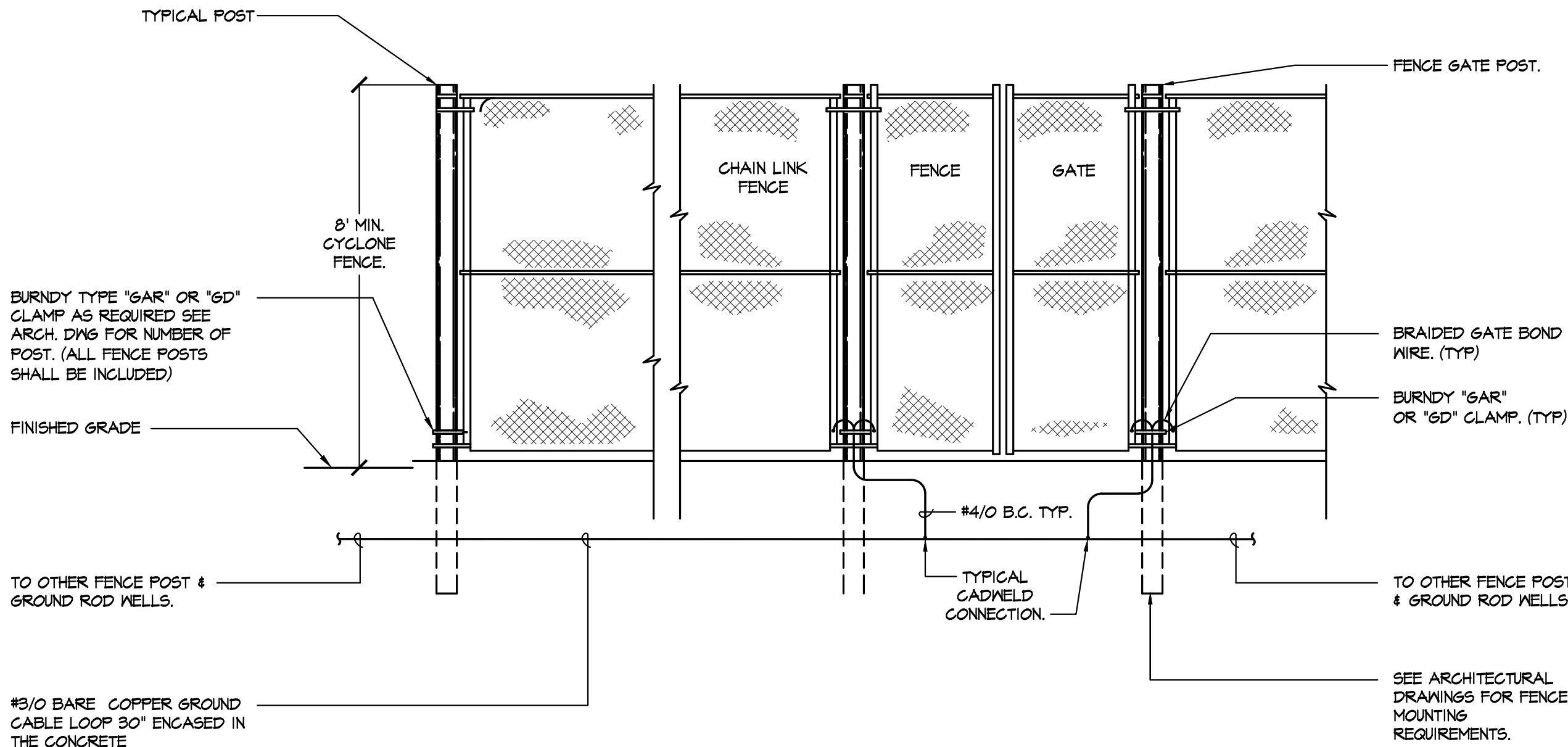


## GROUNDING AT SWITCHBOARD ENCLOSURE

2  
E5.2 SCALE: 1/4" = 1'-0"

### NOTES:

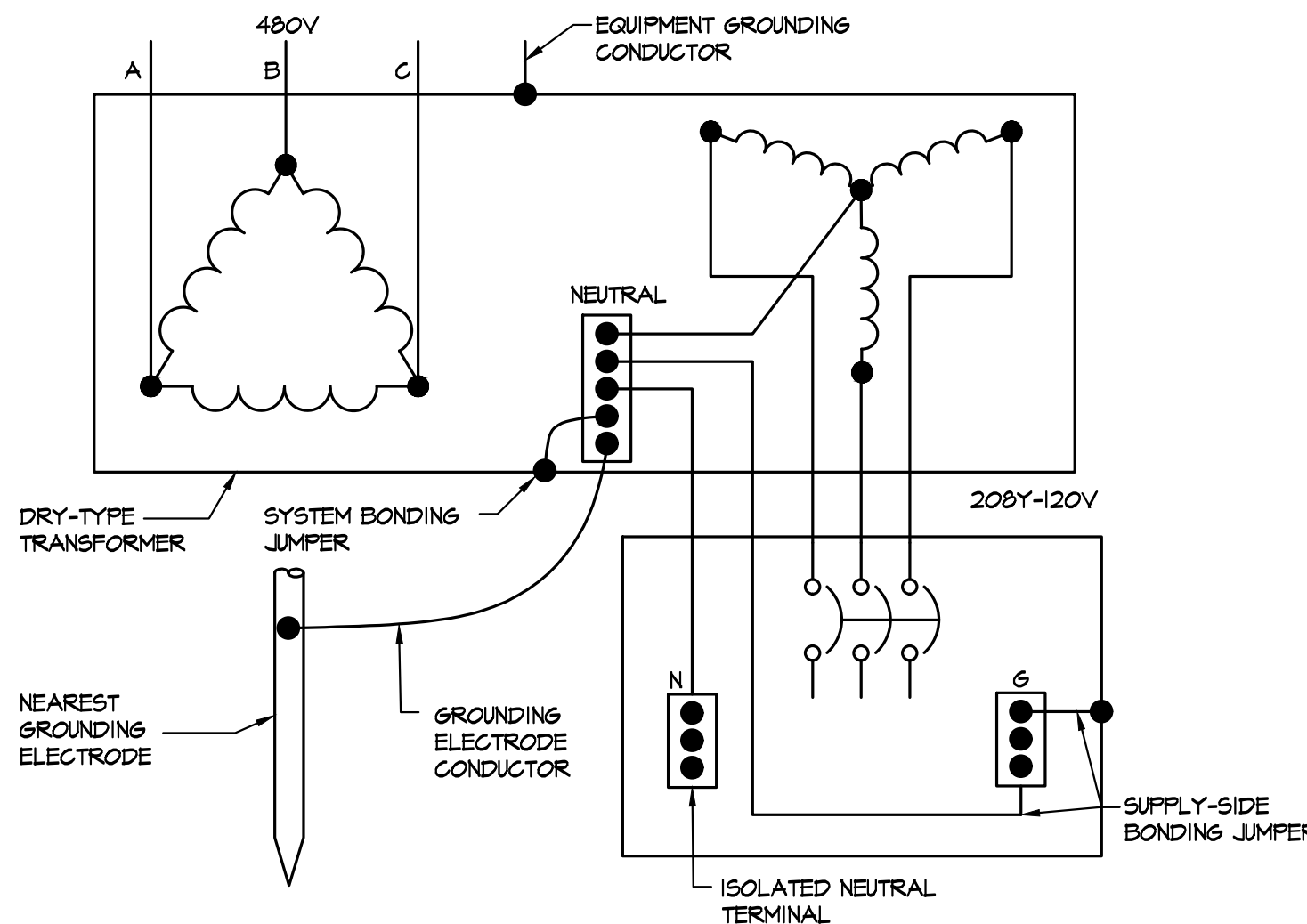
- 1 THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED FOR GROUNDING OR BONDING OF EQUIPMENT, STRUCTURES OR FRAMES REQUIRED TO BE GROUNDING OR BONDING (250.32(B)). PROVIDE ALL OF THE CONNECTIONS BELOW AND BOND TO THE EQUIPMENT GROUNDING CONDUCTOR.
- 2 GROUNDING ELECTRODE CONDUCTOR. GROUNDING ELECTRODE CONDUCTOR SHALL BE BARE OR INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.66.
- 3 NOT USED.
- 4 EQUIPMENT BONDING JUMPER. EQUIPMENT BONDING JUMPER SHALL BE INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.122.
- 5 PROVIDE A MINIMUM OF (3) GROUND ROD. GROUND ROD SHALL BE 10' LONG BY 3/4" DIAMETER COPPERCLAD. GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED TO THE GROUND ROD VIA EXOTHERMIC WELD. GROUND RODS SHALL BE INSTALLED IN A ROUND BOX. SEE DETAIL FOR BOX/INSTALLATION REQUIREMENTS.
- 6 PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR A MINIMUM OF 10 FEET. WATER PIPE SHALL BE ELECTRICALLY CONTINUOUS TO POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR. CONNECTION POINT SHALL NOT BE GREATER THAN 5' FROM THE POINT OF ENTRANCE OF THE UNDERGROUND WATER PIPE.
- 7 PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST METAL FRAME OR STRUCTURAL STEEL.
- 8 PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO ALL OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES, AS REQUIRED WHEN AVAILABLE.
- 9 PROVIDE A CONCRETE ENCASED ELECTRODE (UFER) IN AND NEAR THE BOTTOM OF THE STRUCTURAL FOOTING OR SLAB ON GRADE THAT IS IN DIRECT CONTACT WITH EARTH. THE ELECTRODE SHALL BE A MINIMUM OF 20 FEET LONG INSIDE THE PAD, FOOTING OR SLAB. THE ELECTRODE CONDUCTOR SHALL BE BARE COPPER AND SIZED PER TABLE 250.66 BUT SHALL NOT BE LESS THAN #4AWG.
- 10 MAIN UTILITY TRANSFORMER SHALL BE GROUNDING PER THE REQUIREMENTS OF THE UTILITY COMPANY.
- 11 PROVIDE GROUNDING TO FENCE. SEE DETAIL 4/E5.2.
- 12 PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE SECONDARY SIDE OF ALL WYE CONNECTED BUILDING TRANSFORMERS. GROUNDING ELECTRODE CONDUCTOR MAY BE CONNECTED TO THE NEAREST STRUCTURAL STEEL OR THE MAIN SERVICE GROUNDING ELECTRODE ONLY. SEE TRANSFORMER GROUNDING DETAIL FOR ADDITIONAL REQUIREMENTS.
- 13 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL GROUNDING AND BONDING AS REQUIRED PER THE CEC.
- 14 SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR FENCE REQUIREMENTS.  
NOTE: THIS DETAIL IS SHOWN FOR GROUNDING REQUIREMENTS NOT HOW THE FENCE IS INSTALLED.

## CHAIN LINK FENCE GROUNDING DETAIL

4  
E5.2 NOT TO SCALE



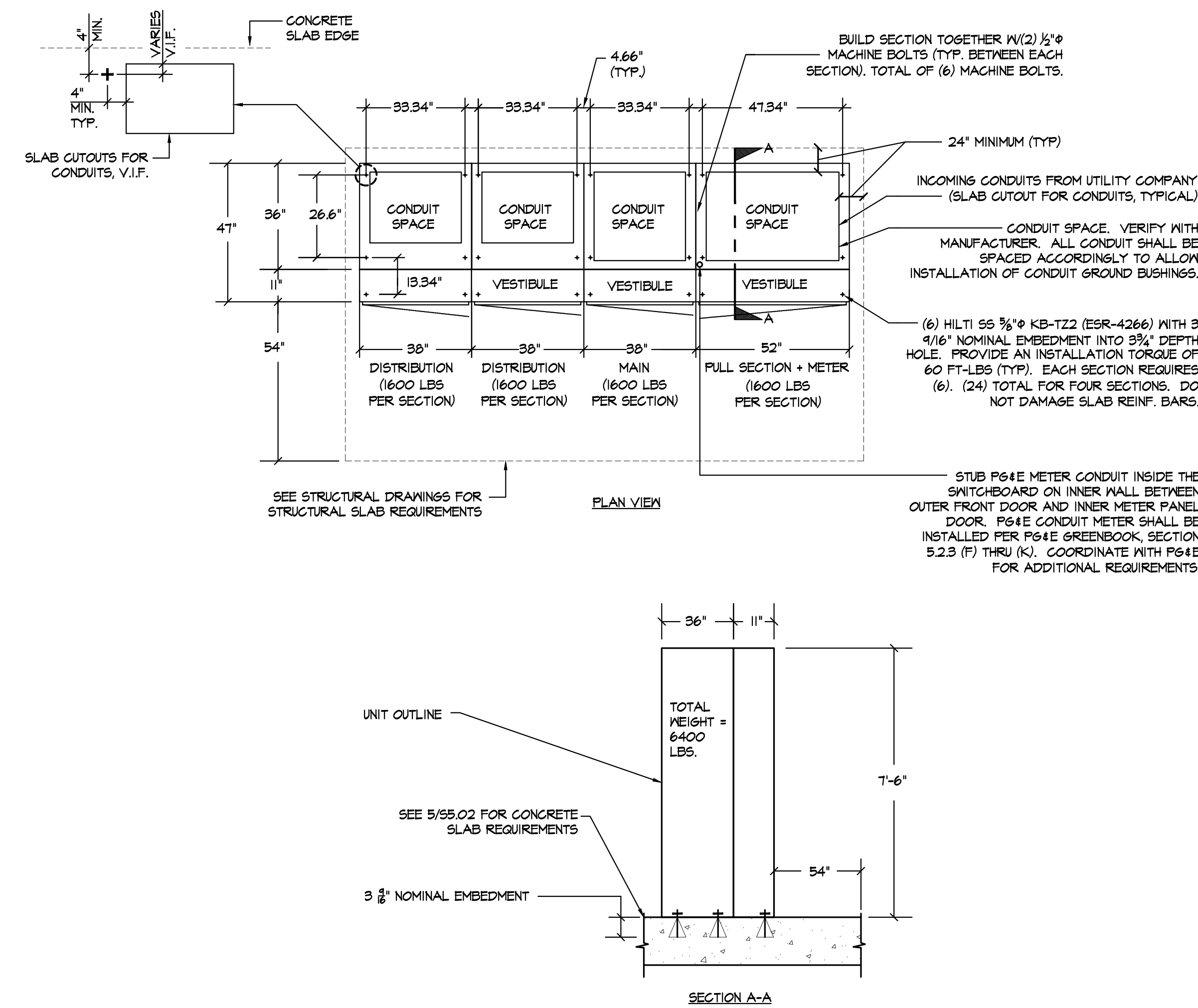
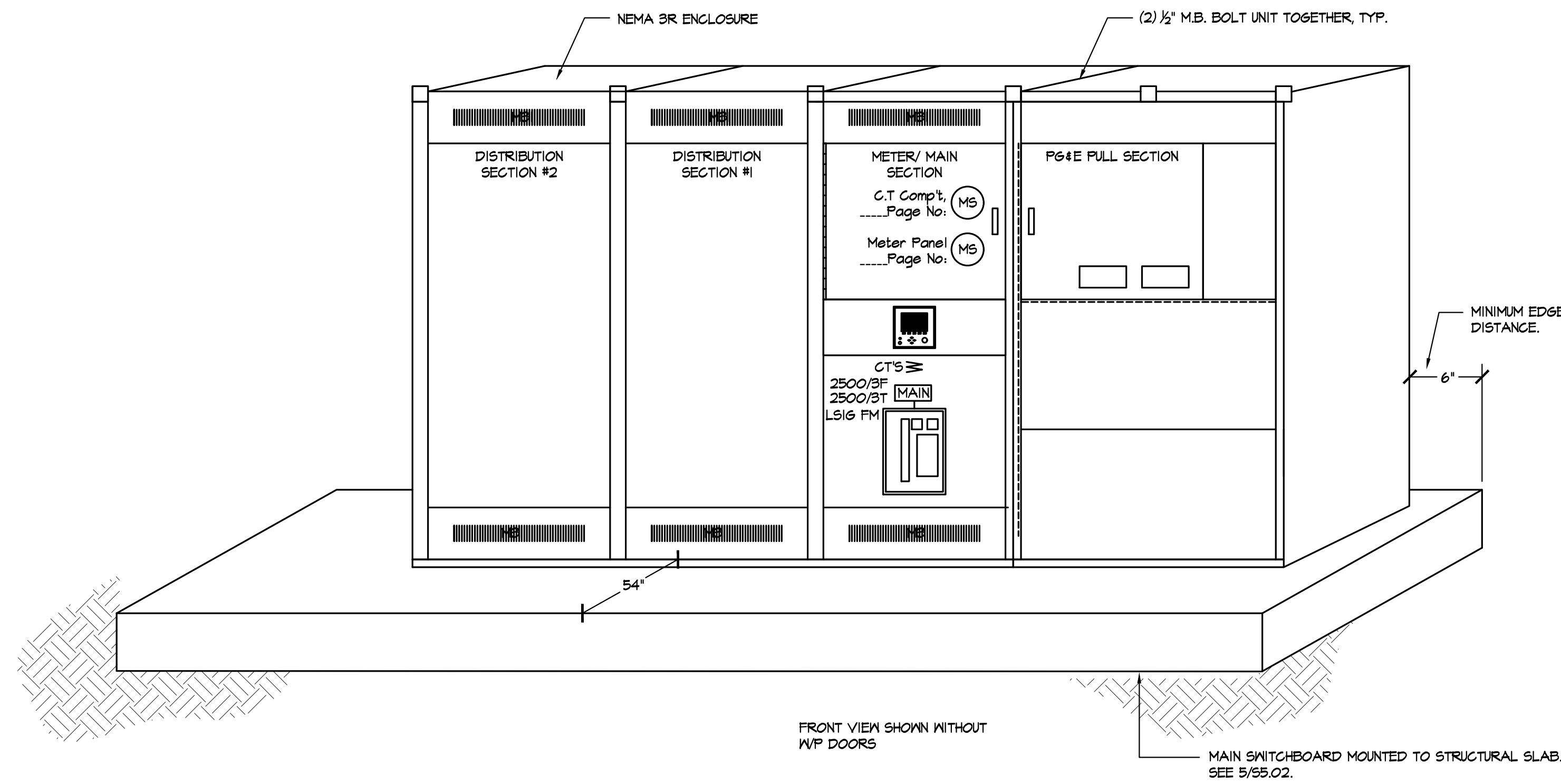
## TRANSFORMER GROUNDING DETAIL

5  
E5.2 NOT TO SCALE

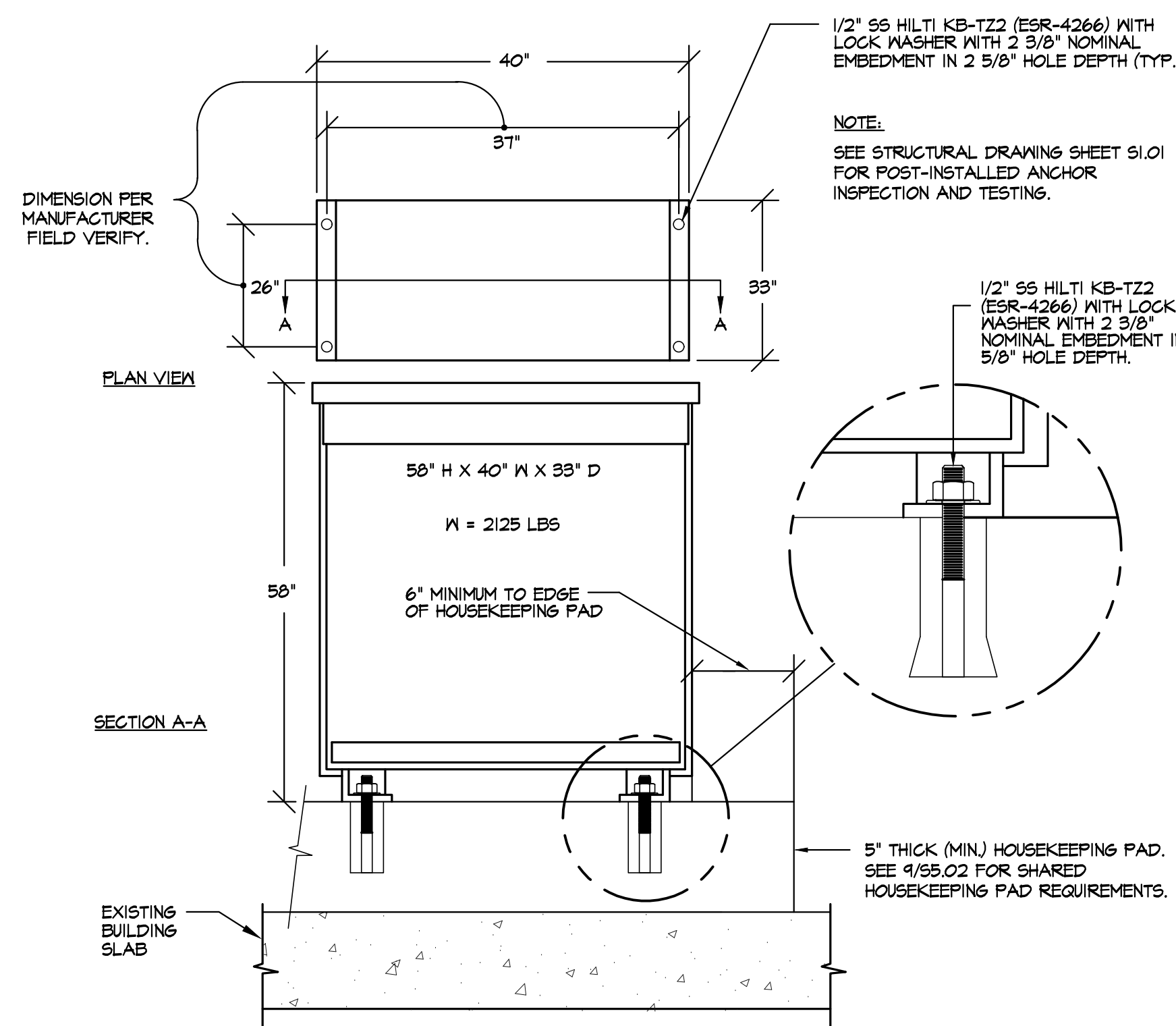
## MAIN SERVICE GROUNDING DETAIL

3  
E5.2 NOT TO SCALE

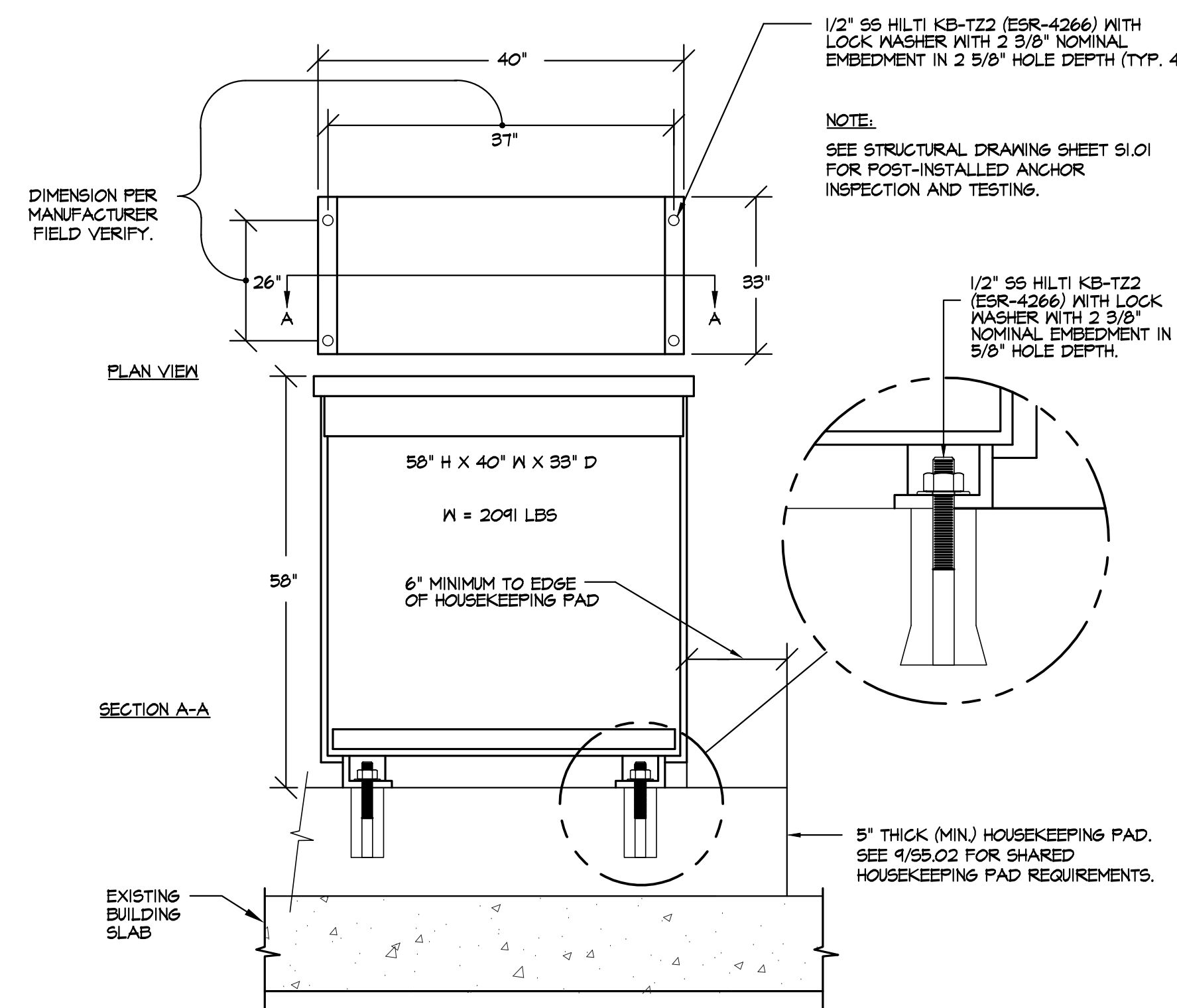




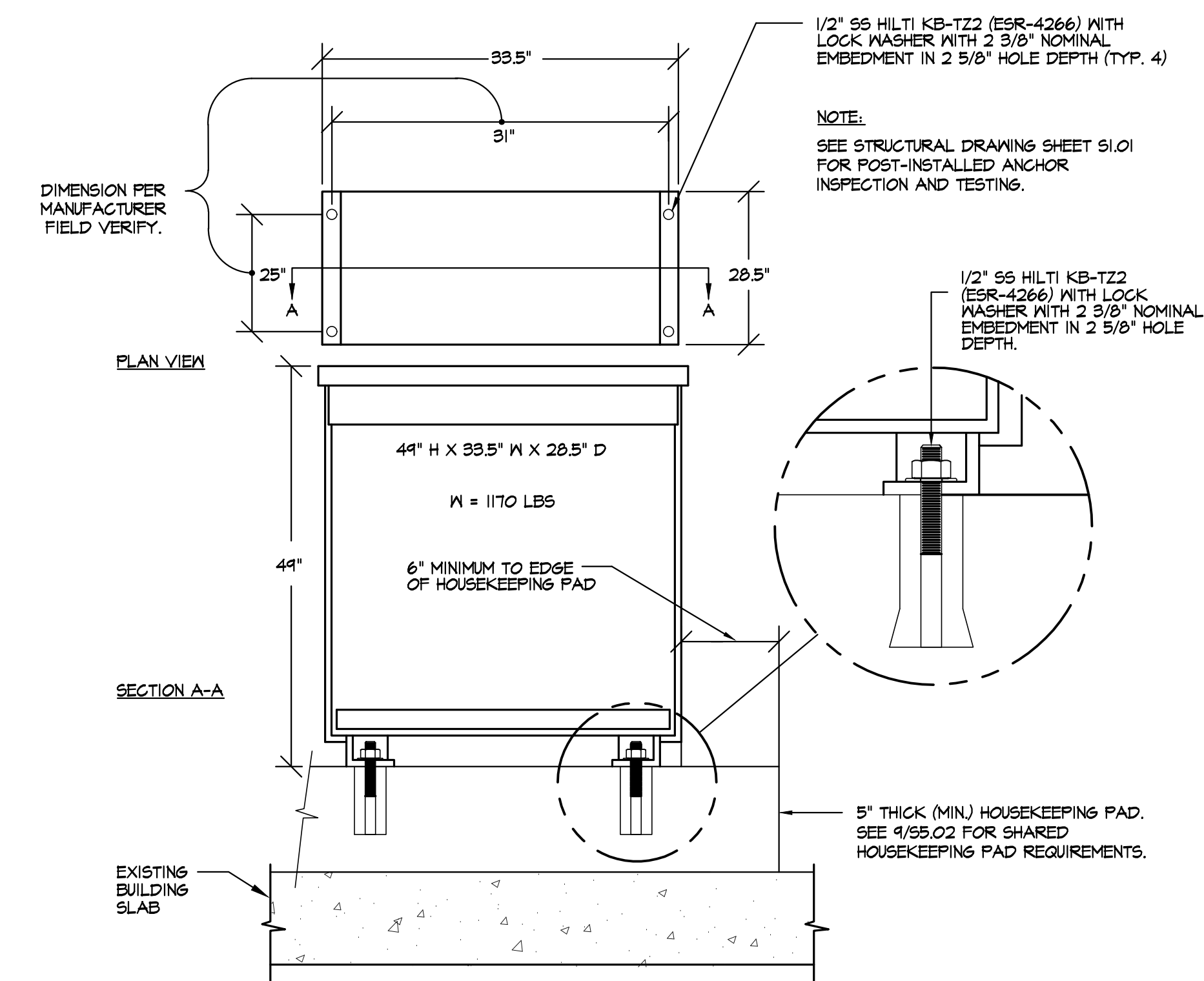
1 **NEMA 3R MAIN SWITCHBOARD ELEVATION AND ANCHORAGE DETAIL**  
E5.3 NOT TO SCALE



2 **DISTRIBUTION TRANSFORMER INSTALLATION  
DETAIL (300 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

COLLEGE PARK  
ELEMENTARY  
SCHOOL - HVAC  
REPLACEMENT

SAN MATEO-FOSTER CITY  
SCHOOL DISTRICT

CONSULTANT



1080 The Alameda, Suite 200  
San Jose, CA 95126  
408/235-2311  
Fax: 408/235-2311

STAMP

STATE

DSA FILE NUMBER

41-26

APPL #

01-119530

REVISIONS

No. Description Date



MILESTONES

DD

90% CD

DSA SUB

05/26/2021

BACKCHECK

10/07/2021

SHEET

ELECTRICAL  
DETAILS

DATE

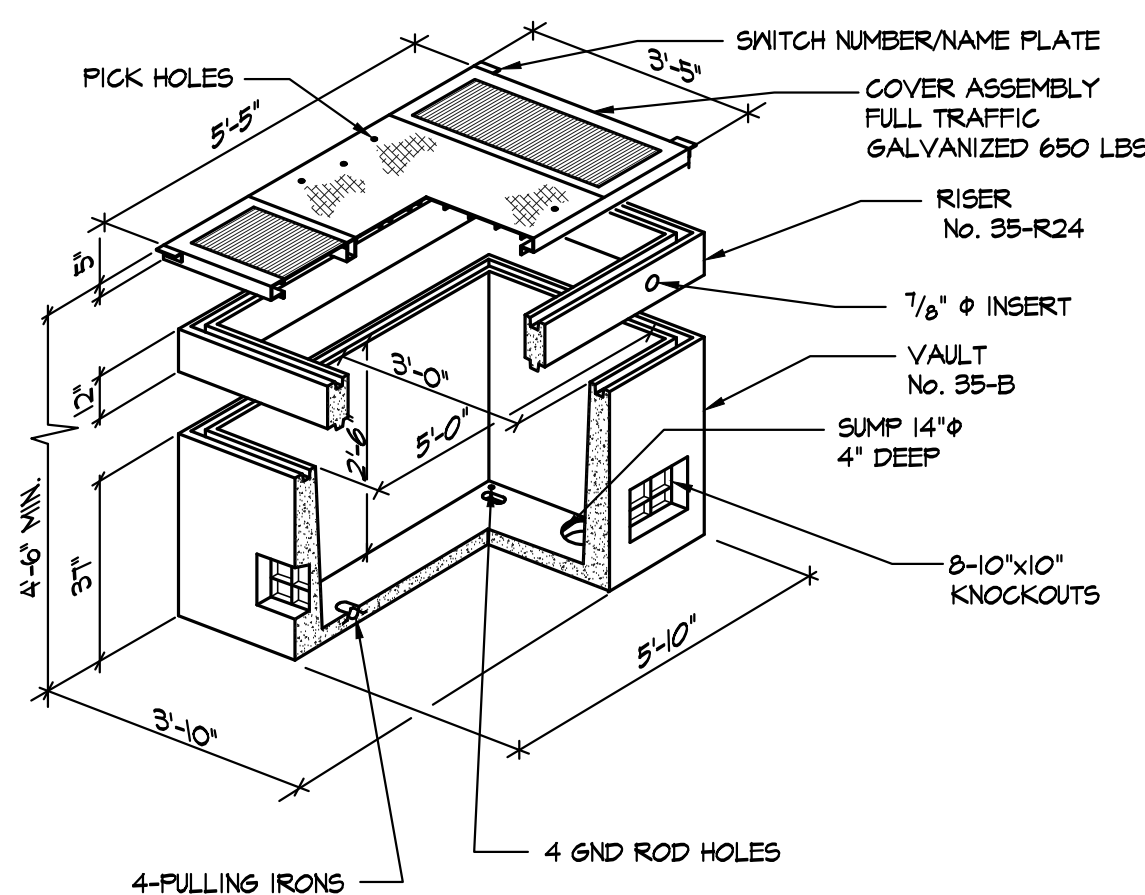
10/07/2021

JOB #

2021005.01

SHEET #

E5.4



NOTES:

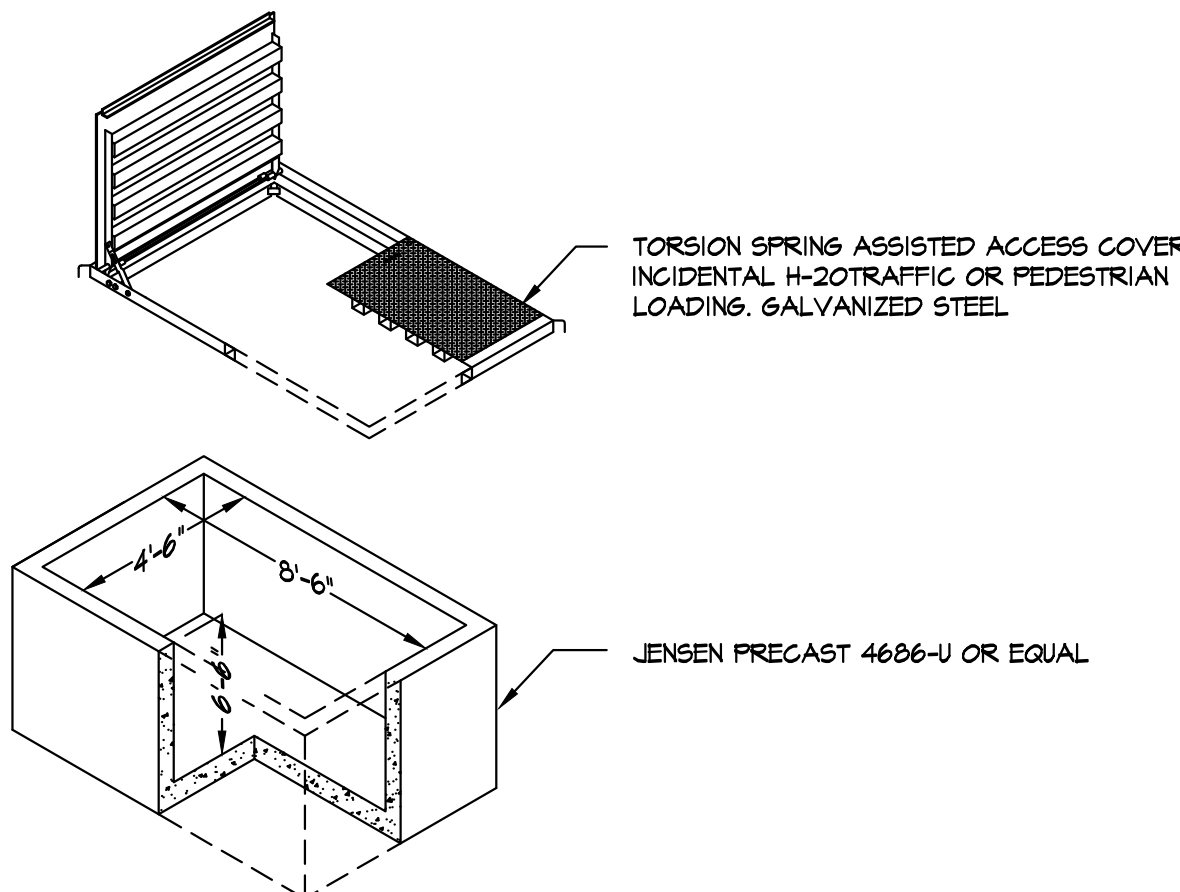
1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS 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.

1 3' X 5' ELECTRICAL VAULT

E5.4

NOT TO SCALE

(FULL TRAFFIC COVER)



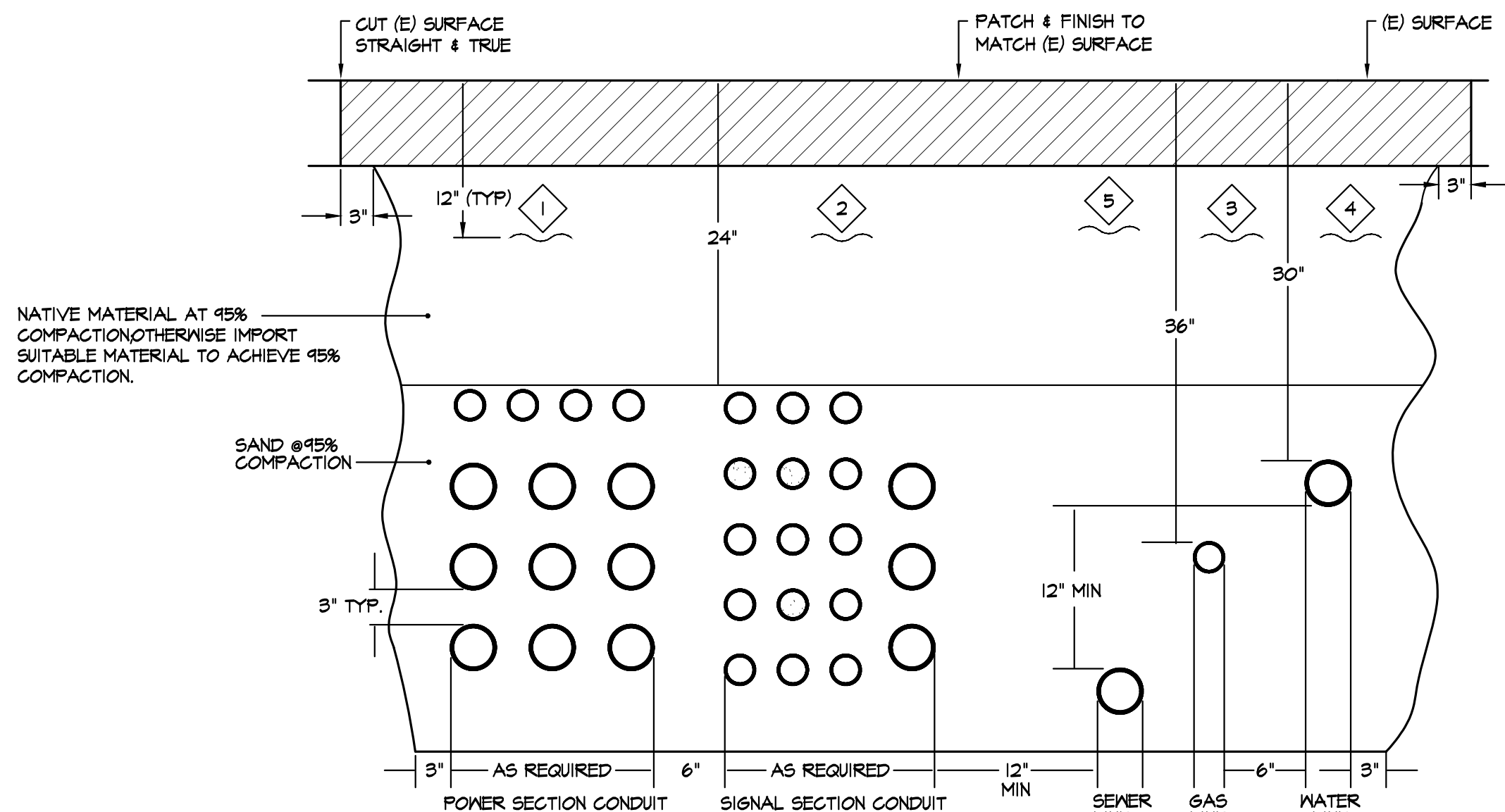
NOTES:

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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"

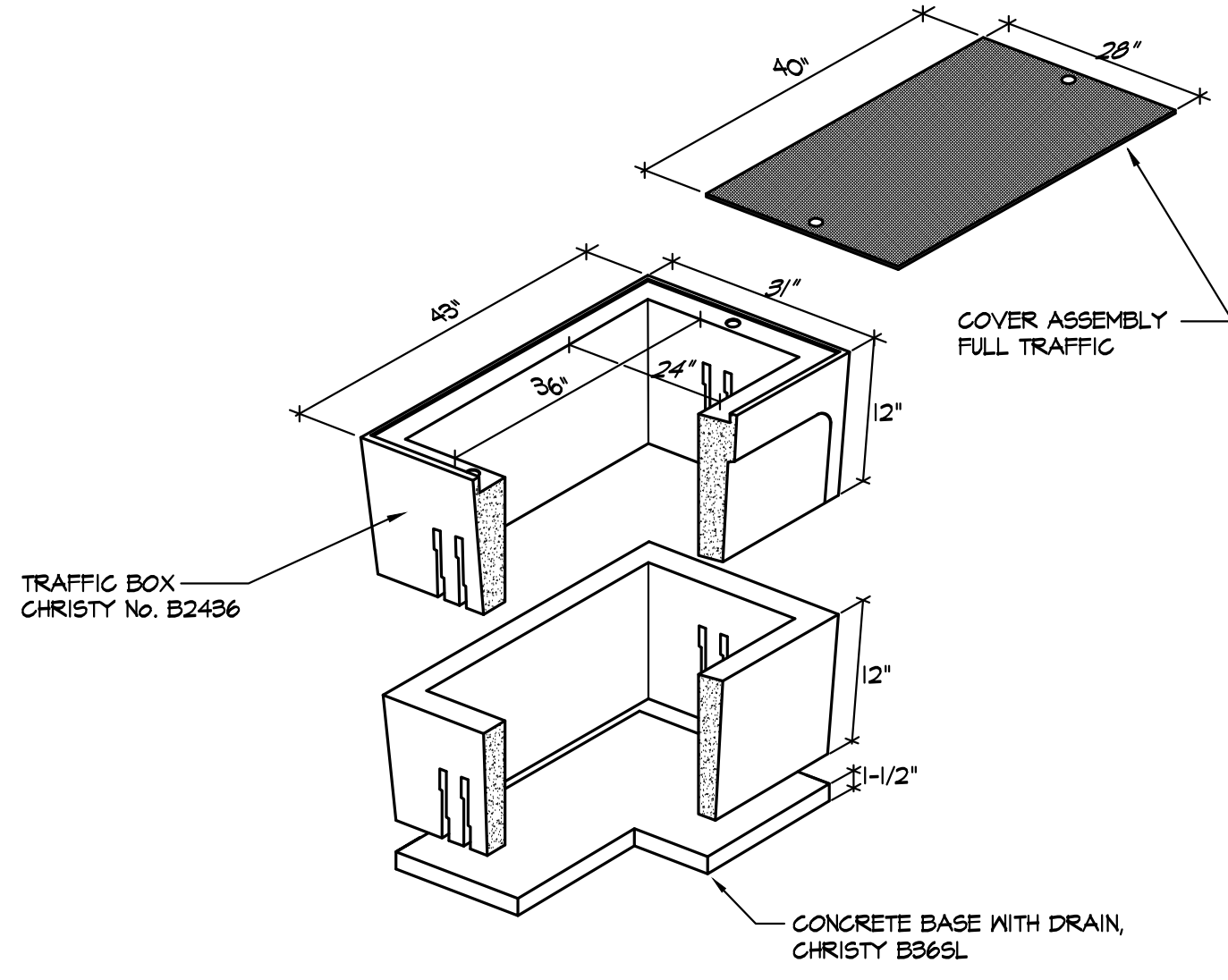
NOTES:

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:

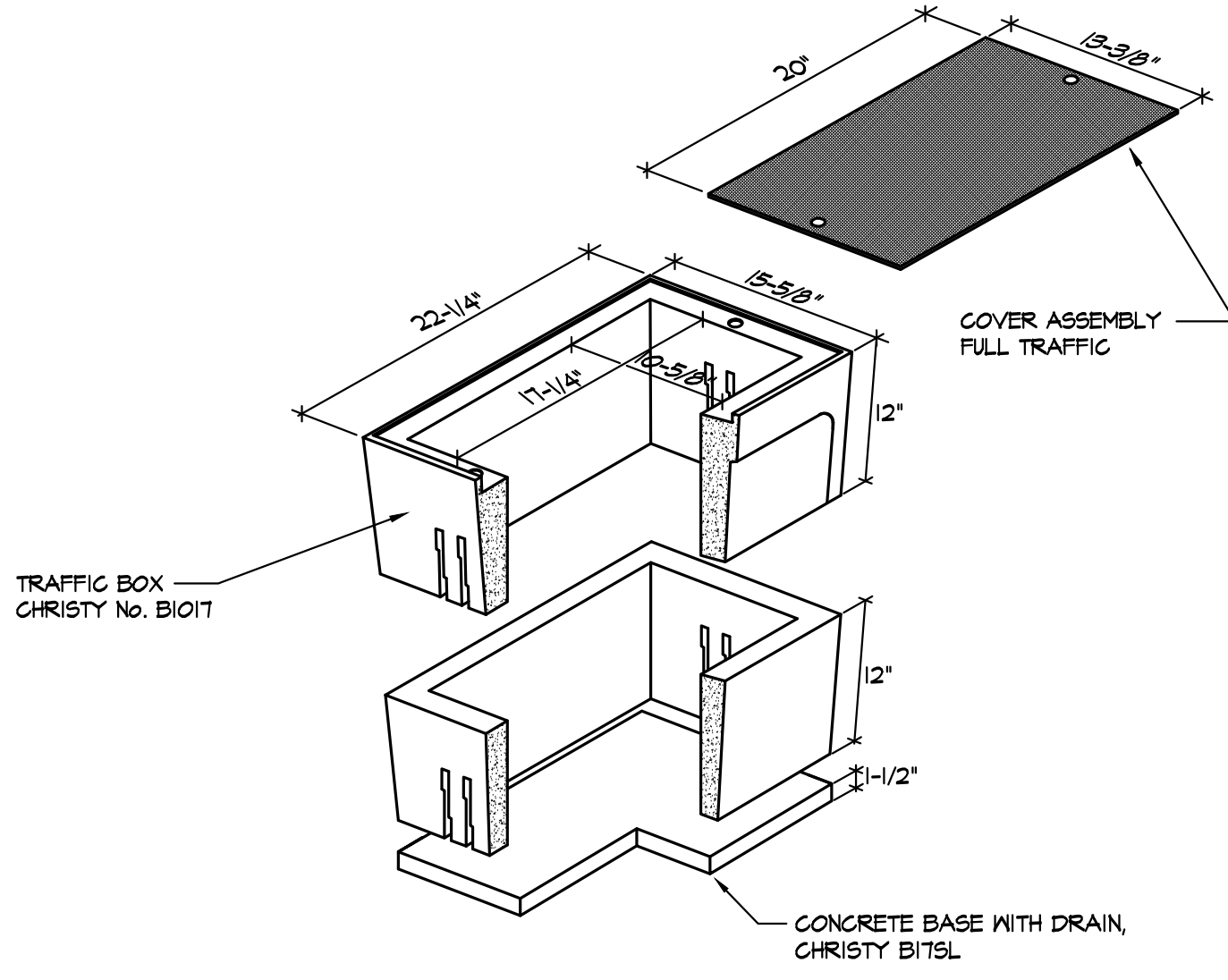
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2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
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:

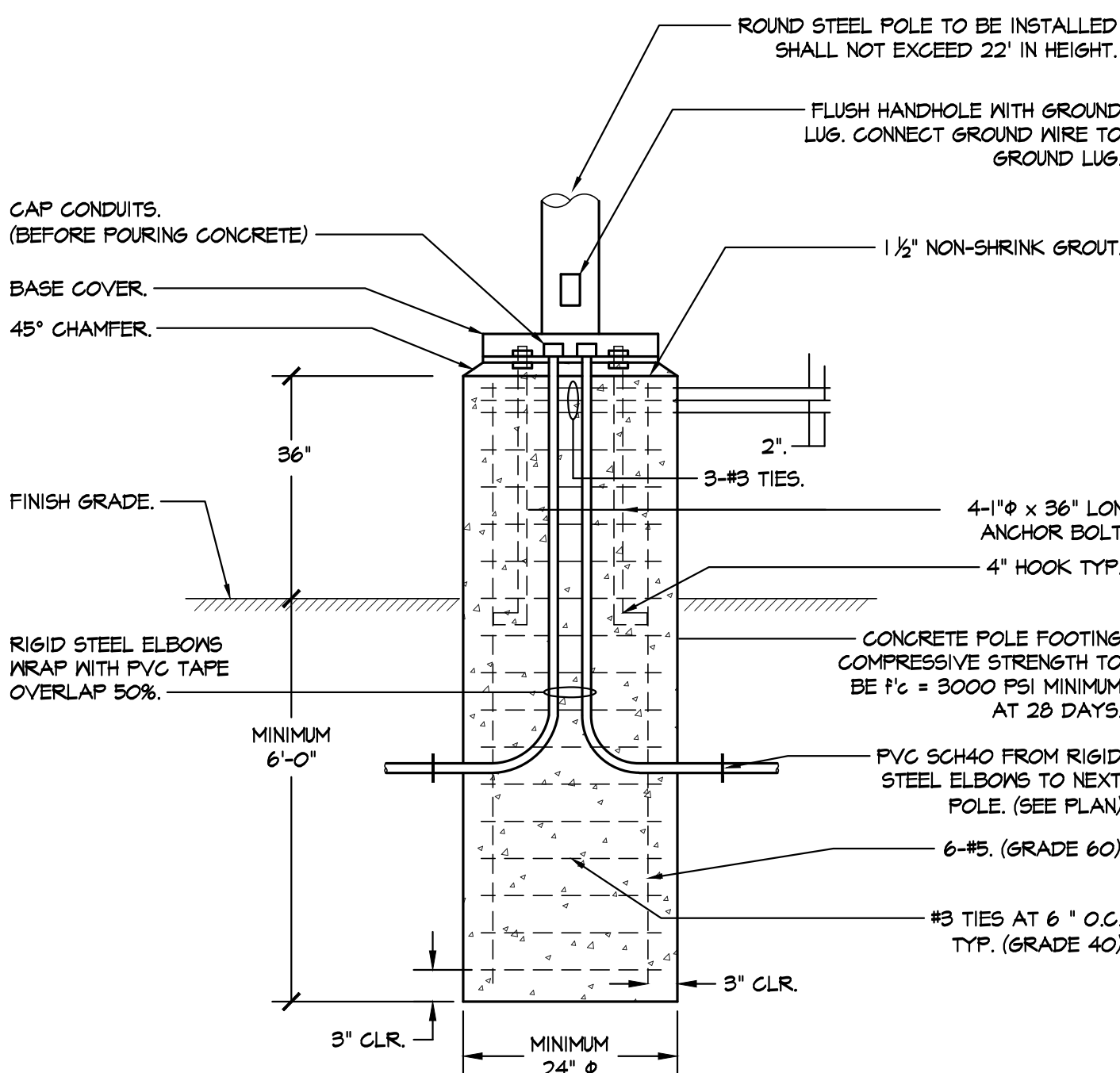
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5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE BASE WITH DRAIN. PROVIDE DRAIN ROCK.

5 B1017 ELECTRICAL VAULT

E5.4

NOT TO SCALE

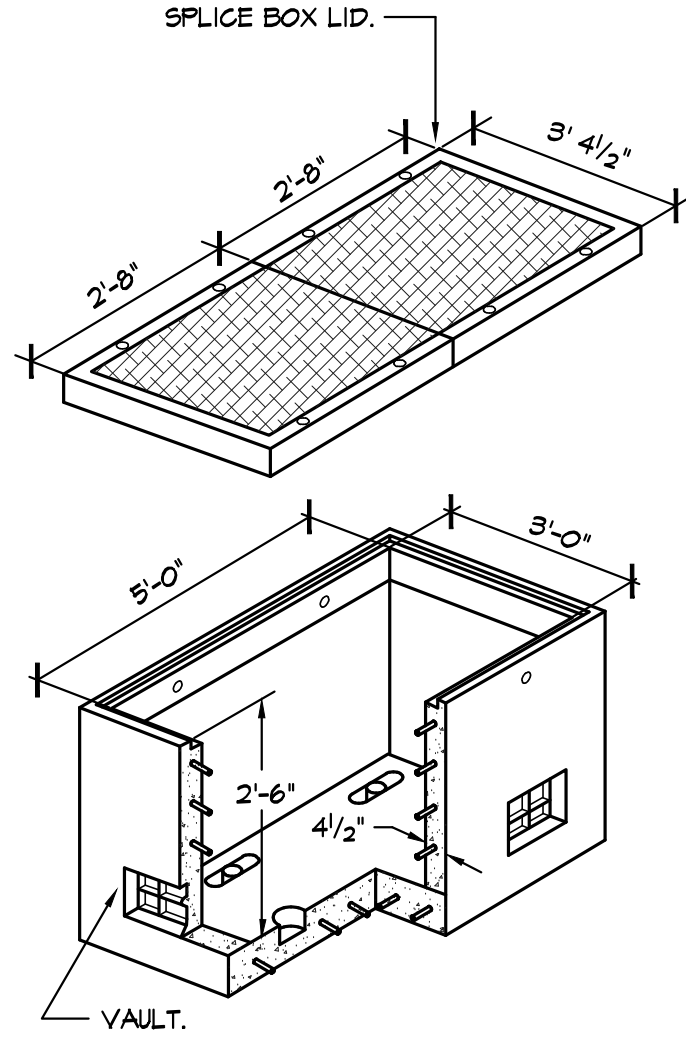
(FULL TRAFFIC COVER)



6 TYPICAL RAISED POLE BASE DETAIL

E5.4

NOT TO SCALE (NOT PART OF DSA STRUCTURAL REVIEW PER IR A-22)  
(POLE LESS THAN 35')



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

7 PQ&E 3' X 5' ELECTRICAL VAULT

E5.4

NOT TO SCALE