



MUNSEY ELEMENTARY SCHOOL

HVAC REPLACEMENT

BAKERSFIELD CITY SCHOOL DISTRICT

3801 BRAVE AVENUE

BAKERSFIELD, CA 93309

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93305

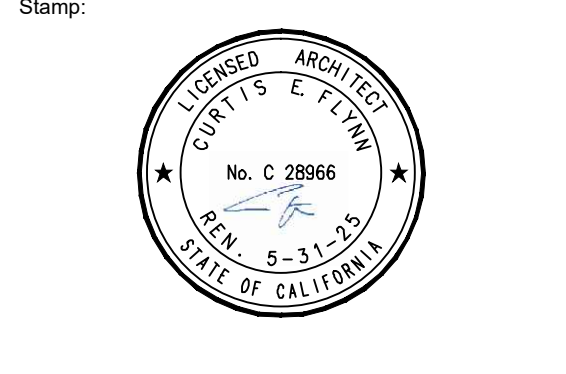
Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309



ARCHITECTURE ENGINEERING INTERIOR DESIGN
 6011 N. FRESNO STREET, SUITE 130
 FRESNO CALIFORNIA 93710
 P:(559) 436-0881 F:(559) 436-0887
 E: design@somam.com
 integrateddesigns.com

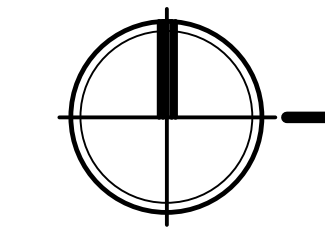
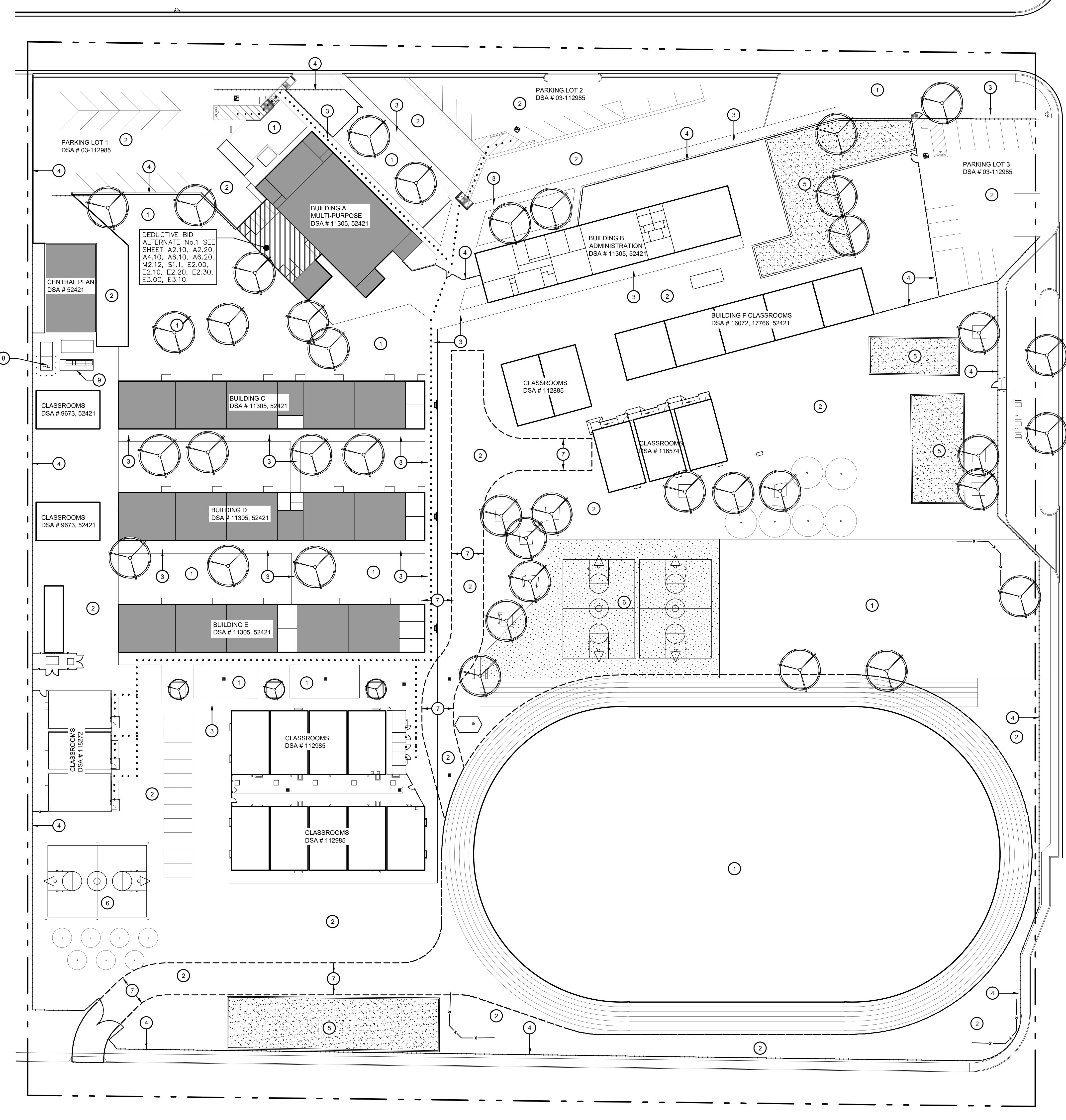
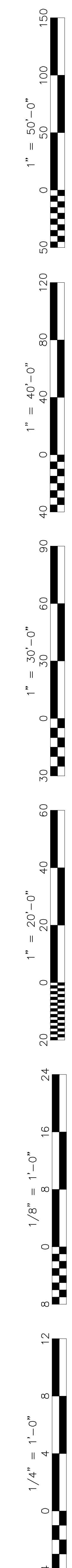
Professional Seal of the State Architect
 No. C 28966
 State of California
 July 26, 2015



Job No: **5524**
 Sheet No: **T0.00**
 Release: **DSA SUBMITTAL** 11/28/22

1" = 50'-0"
 1" = 40'-0"
 1" = 30'-0"
 1" = 20'-0"
 1/8" = 1'-0"
 1/4" = 1'-0"

ABBREVIATIONS				VICINITY MAP		BUILDING DATA		STATEMENT OF GENERAL CONFORMANCE		SHEET INDEX																																																																																																																																																																			
<p>ABBREVIATIONS</p> <p>ABOVE ABV. ABOVE A.B. FINISHED FLOOR F.F. ACCESSIBLE ACCESS., ACT. ADJACENT ADJ. ADJUSTABLE ADJUST. AIR A/C ALUMINUM ALUM. ANCHOR BOLT A.B. ANCHOR ANCH. ARCHITECTURAL ARCH. ASPHALT ASP. CONCRETE CONCR. BACKSPOUR B.S. BEAM BM. BENCH MARK B.M. BENT ANCHOR B.A. BOLT B. BRICKEN B.K. BLOCK B.LK. BOTTOM B.TM. BOUNDARY B.N. HAULING H. BUILDING BLDG. CABINET CAB. CANTONMENT C.M. CARPET C.P. CARTRIDGE BOLT C.B. CAST IRON C.I. CEILING C.C. CEILING DIFFUSER C.D. CEILING GRILLE C.G. CEILING REGISTER C.R. CEILING CEM. CENTERLINE C.L. TILE C.T. CHOUT C.H. CLEANOUT C.O. CLEAR C.LR. COLD WATER C.W. COLUMN C.O. COMBINATION / COMB. CONSTRUCTION COMP. COMPARTMENT COMP. CONCRETE CONCR. CONCRETE CONCR. MASONRY UNIT M.U. CONDITION COND. CONNECTION CONN. CONSTRUCTION CONST. CONTINUOUS CONT. CONTRACTOR CONTR. COORDINATE COOR. COUNTERSINK CSK. DEPARTMENT DEPT. DEPTH DEPT. DETAIL DET. DIAGONAL DIA. DIAMETER DIA. DIMENSION DM. DISPENSER DSP. /SPECIAL /SPECIAL</p>				<p>VICINITY MAP</p> <p>THIS PROJECT SITE HVAC REPLACEMENT 3801 BRAVE AVENUE BAKERSFIELD, CA 93309</p>		<p>BUILDING DATA</p> <table border="1"> <thead> <tr> <th>BLDG No.</th> <th>BUILDING DESCRIPTION</th> <th>OCC. TYPE</th> <th>AREA (S.F.)</th> <th>CONSTRUCTION TYPE</th> <th>DSA APP. 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THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.</p> <p>THE ITEMS CHECKED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK).</p> <p>THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSIDERED AS RELIEVING ME OF ANY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTION 17322 AND 17138 OF THE EDUCATIONAL CODE AND SECTIONS 4-336, 4-431 AND 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-1703).</p> <p>SEE THE SHEET INDEX ON THIS SHEET FOR DRAWINGS OTHER THAN ARCHITECTURAL.</p> <p>APPLICABLE: <input checked="" type="checkbox"/> STRUCTURAL <input checked="" type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> ELECTRICAL <input type="checkbox"/> CIVIL <input type="checkbox"/> PLUMBING</p> <p>SIGNATURE OF THE ARCHITECT/ENGINEER: [Signature] DATE: 06-16-23 No. C-28966 LICENSED NUMBER: [Number] EXPIRATION DATE: 05-31-25</p>		<p>SHEET INDEX</p> <table border="1"> <thead> <tr> <th>SHT NO.</th> <th>DESCRIPTION</th> <th>SHT NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>T0.00</td> <td>TITLE SHEET</td> <td>E0.01</td> <td>CODES, NOTES SYMBOLS & FIXTURE SCHED.</td> </tr> <tr> <td></td> <td></td> <td>E0.02</td> <td>INDOOR LIGHTING COMPLIANCE</td> </tr> <tr> <td></td> <td></td> <td>E0.03</td> <td>POWER ELECTRICAL DISTRIBUTION</td> </tr> <tr> <td></td> <td></td> <td>E1.00</td> <td>SITE ELECTRICAL PLAN - DEMOLITION</td> </tr> <tr> <td></td> <td></td> <td>E1.01</td> <td>SITE ELECTRICAL PLAN</td> </tr> <tr> <td></td> <td></td> <td>E1.02</td> <td>ENLARGED SITE ELECTRICAL PLAN</td> </tr> <tr> <td></td> <td></td> <td>E2.00</td> <td>DEMOLITION POWER PLANS BUILDINGS "A & C"</td> </tr> <tr> <td>A1.00</td> <td>SITE PLAN</td> <td>E2.01</td> <td>DEMOLITION POWER PLANS BLDG "D & E", MECHANICAL ENCLOSURE</td> </tr> <tr> <td>A2.10</td> <td>DEMOLITION PLANS - BUILDINGS A & C</td> <td>E2.02</td> <td>DEMOLITION LIGHTING PLANS BUILDINGS "A & C"</td> </tr> <tr> <td>A2.11</td> <td>DEMOLITION PLANS - BUILDINGS D, E & MECH. 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<p>PROJECT DIRECTORY</p> <p>OWNER: BAKERSFIELD CITY SCHOOL DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305 MARK LUQUE, SUPERINTENDENT TEL: (661)631-4600 luquem@bcsd.edu</p> <p>STRUCTURAL ENGINEER: DUSTIN LEE CORNERSTONE STRUCTURAL ENGINEERING 986 W. ALLUVIAL, ste. 201 FRESNO, CA 93711 TEL: (559)320-3200 dllee@csesg.com</p> <p>ARCHITECT: CURTIS FLYNN INTEGRATED DESIGNS BY SOMAM, Inc. 6011 N. FRESNO STREET, SUITE 130 FRESNO, CA 93710 TEL: (559)436-0881 seastham@rsd-eng.com</p> <p>MECHANICAL/PLUMBING ENGINEER: LISA LUM INTEGRATED DESIGNS BY SOMAM, Inc. 6011 N. FRESNO STREET, SUITE 130 FRESNO, CA 93710 TEL: (559)436-0881 llum@somam.com</p>																																																																																																																																																																													
<p>DEFERRED SUBMITTALS</p> <ul style="list-style-type: none"> NONE 				<p>PROJECT SCOPE OF WORK</p> <ul style="list-style-type: none"> REPLACE EXISTING UNIT VENTILATORS, AIR HANDLERS, AND MAKE-UP AIR UNITS IN BUILDINGS A, C, D, AND E WITH MODERN, MORE EFFICIENT ROOF TOP PACKAGE UNITS REMOVE ALL EXISTING OUTDATED, CENTRAL PLANT EQUIPMENT FROM THE CHILLER YARD AFTER THE NEW EQUIPMENT IS APPROVED AND FULLY OPERATIONAL UPGRADE FIRE ALARM SYSTEM AT BUILDINGS A,C,D & E. 																																																																																																																																																																									

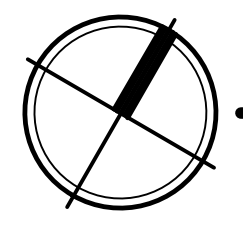
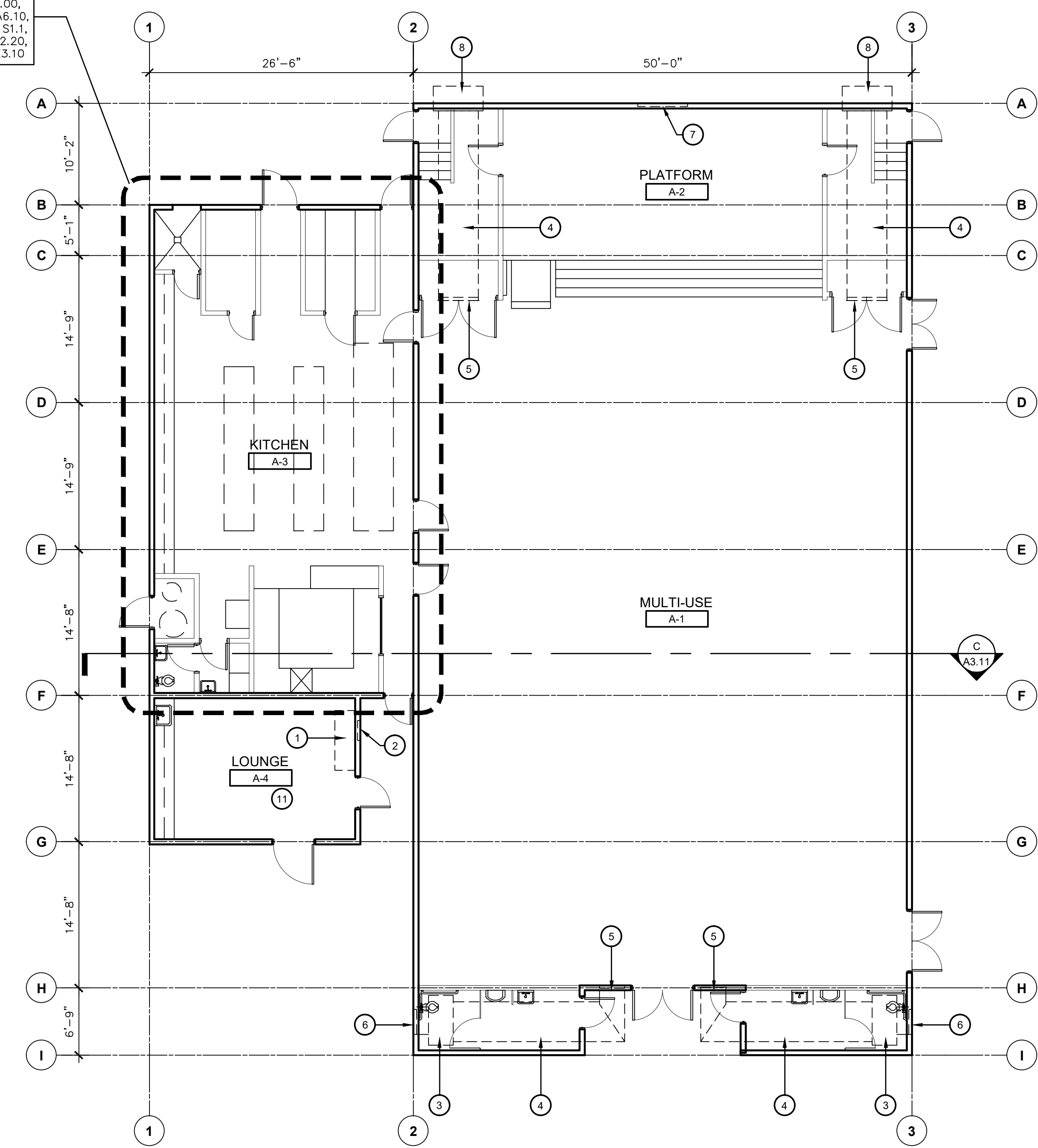


SITE PLAN
HVAC REPLACEMENT

SCALE: 1" = 30'

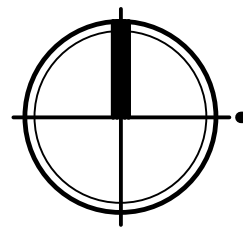
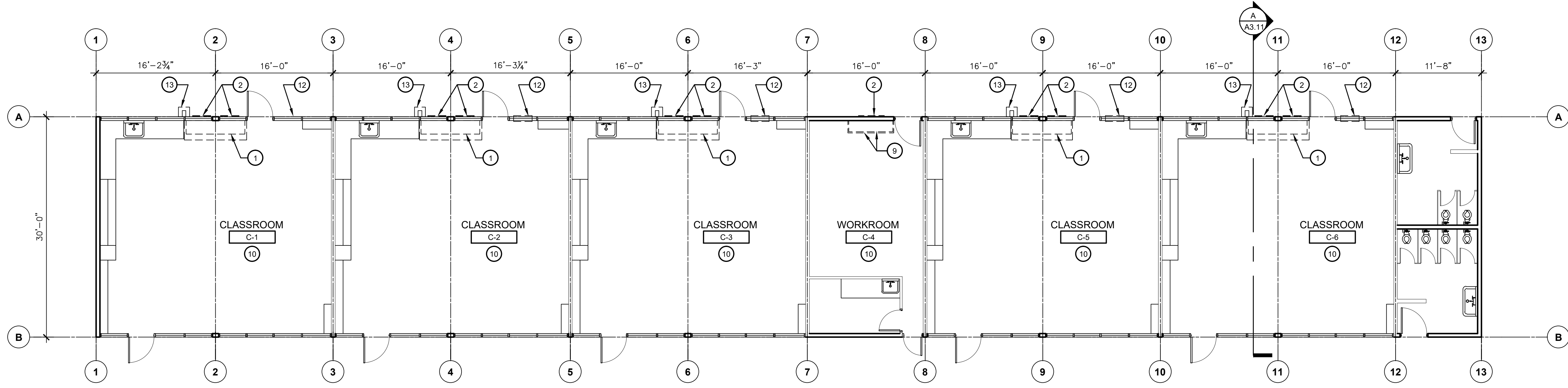
CODE ANALYSIS		KEY NOTES #	
<p>BUILDING A</p> <p>BUILDING USE MULTI-PURPOSE</p> <p>OCCUPANCY GROUP A-2</p> <p>NUMBER OF STORIES ONE</p> <p>BUILDING HEIGHT + 22'-11"</p> <p>ALLOWABLE FLOOR AREA A-2 13,500 S.F.</p> <p>ACTUAL FLOOR AREA 6,313 S.F.</p> <p>TYPE OF CONSTRUCTION V-A</p>			
<p>BUILDING C</p> <p>BUILDING USE CLASSROOMS</p> <p>OCCUPANCY GROUP E</p> <p>NUMBER OF STORIES ONE</p> <p>BUILDING HEIGHT + 16'-6"</p> <p>ALLOWABLE FLOOR AREA 9,500 S.F.</p> <p>ACTUAL FLOOR AREA 5,652 S.F.</p> <p>TYPE OF CONSTRUCTION V-B</p>			
<p>BUILDING D</p> <p>BUILDING USE CLASSROOMS</p> <p>OCCUPANCY GROUP E</p> <p>NUMBER OF STORIES ONE</p> <p>BUILDING HEIGHT + 16'-6"</p> <p>ALLOWABLE FLOOR AREA 9,500 S.F.</p> <p>ACTUAL FLOOR AREA 5,652 S.F.</p> <p>TYPE OF CONSTRUCTION V-B</p>			
<p>BUILDING E</p> <p>BUILDING USE CLASSROOMS</p> <p>OCCUPANCY GROUP E</p> <p>NUMBER OF STORIES ONE</p> <p>BUILDING HEIGHT + 16'-6"</p> <p>ALLOWABLE FLOOR AREA 9,500 S.F.</p> <p>ACTUAL FLOOR AREA 5,652 S.F.</p> <p>TYPE OF CONSTRUCTION V-B</p>			
		<p>GENERAL NOTES</p> <p>ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).</p> <p>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.</p> <p>SUBSTITUTIONS OF PRODUCTS AND PROCESSES WHICH AFFECT THE STRUCTURAL SAFETY, FIRE AND LIFE-SAFETY, AND ACCESSIBILITY OF THIS PROJECT SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.</p> <p>A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.</p> <p>THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).</p> <p>GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD, AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.</p>	
		<p>CAL. ENERGY CODE</p> <p>THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.</p> <p>LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TESTS TECHNICIAN (ATT).</p> <p>MECHANICAL CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.</p> <p>ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.</p> <p>A LISTING OF CERTIFIED ATT CAN BE FOUND AT: https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-programs/acceptance.</p> <p>THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.</p> <p>PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.</p>	
		<p>LEGEND</p> <p> BUILDINGS THAT ARE PART OF THE SCOPE OF WORK FOR THIS HVAC MODERNIZATION</p> <p> DEDUCTIVE BID ALTERNATE BUILDING AREA - SEE</p>	
<p>IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122489 INC. REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input type="checkbox"/> DATE: 07/27/2023</p>			
<p>Owner: BAKERSFIELD CITY SCHOOL DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305</p>			
<p>Project Name: HVAC REPLACEMENT</p>			
<p>Project Address: MUNSEY ELEMENTARY SCHOOL 3801 BRAVE AVENUE BAKERSFIELD, CA 93309</p>			
<p> integrated designs by SOMAM, Inc. ARCHITECTURE ENGINEERING INTERIOR DESIGN</p>			
<p>6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com</p>			
<p>Stamp: </p>			
<p>Sheet Title: SITE PLAN</p>			
<p>Job No.: 5524</p>			
<p>Sheet No.: A1.00</p>			
<p>Release: DSA SUBMITTAL 11/28/22</p>			

DEDUCTIVE BID
ALTERNATE No.1
SEE SHEETS A1.00,
A2.20, A4.10, A5.10,
A6.20, M2.12, S1.1,
E2.00, E2.10, E2.20,
E2.30, E3.00, E3.10



DEMOLITION PLANS - BUILDING A
HVAC REPLACEMENT

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



DEMOLITION PLANS - BUILDING C
HVAC REPLACEMENT

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

KEY NOTES #

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, CONTROLS, ETC. TYP.
2. REMOVE EXISTING OUTSIDE AIR LOUVER AND DUCT THRU WALL.
3. REMOVE (E) UNIT HEATER AND ALL RELATED COMPONENTS, PIPES AND RELATED APPURTENANCES
4. REMOVE (E) AIR DUCT
5. REMOVE (E) SUPPLY GRILL
6. REMOVE (E) OUTSIDE AIR LOUVER
7. REMOVE (E) AIR LOUVER AND AIR RELIEF DAMPER
8. REMOVE (E) EVAPORATIVE COOLER
9. REMOVE (E) FAN COIL
10. REMOVE (E) CARPET, VAT TILE FLOORING AND MASTIC
11. REMOVE (E) ASPHALT TILE FLOORING AND MASTIC
12. REMOVE EXISTING RELIEF DAMPER LOUVER
13. REMOVE EXISTING SHEET METAL PIPE COVER, CONCRETE PAD, AND UTILITY PIPES; CAP AND ABANDON REMAINING PIPES UNDERGROUND - SEE DETAIL 3/A3.11

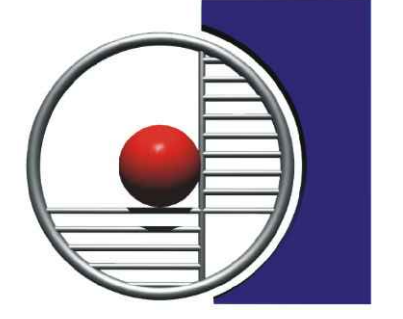
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309


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6011 N. FRESNO STREET, SUITE 130
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Sheet Title:
DEMOLITION PLANS BUILDINGS A & C


Job No.:
5524

Sheet No.:
A2.10
Release: DSA SUBMITTAL 11/28/22

KEY NOTES #

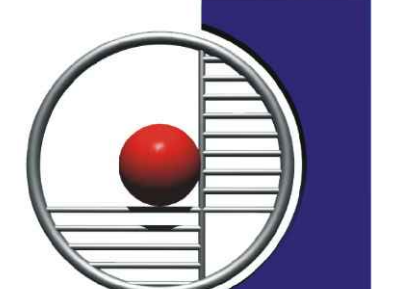
1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, CONTROLS, ETC. COORDINATE WITH MECHANICAL DRAWINGS, TYP.
2. REMOVE EXISTING OUTSIDE AIR LOUVER AND DUCT THRU WALL.
3. REMOVE (E) CARPET, VAT FLOORING AND MASTIC
4. REMOVE (E) FAN COIL UNIT
5. REMOVE EXISTING AIR COOLED CHILLER, PIPING AND CONTROLS
6. REMOVE EXISTING ICE STORAGE TANK
7. REMOVE EXISTING HYDRONIC BOILER, PIPING AND CONTROLS
8. REMOVE EXISTING PUMP, PIPING AND CONTROLS
9. REMOVE EXISTING EXPANSION TANK AND PIPING
10. REMOVE EXISTING AIR SEPARATOR AND PIPING
11. REMOVE EXISTING PIPING AND SUPPORT
12. REMOVE AND DISPOSE OF (E) CMU WALLS, INCLUDING CONCRETE FOUNDATION AND CHAIN-LINK FENCE ON TOP OF WALL. COORDINATE DEMOLITION WITH REMOVAL OF CHILLER EQUIPMENT TIME FRAME
13. REMOVE AND DISPOSE OF (E) EQUIPMENT CONCRETE HOUSEKEEPING PADS, COORDINATE DEMOLITION WITH REMOVAL OF CHILLER EQUIPMENT TIME FRAME
14. REMOVE AND DISPOSE OF (E) CONCRETE PAVING. COORDINATE DEMOLITION WITH REMOVAL OF CHILLER EQUIPMENT TIME FRAME
15. REMOVE AND DISPOSE OF (E) WOODEN FENCE AND GATE
16. REMOVE EXISTING RELIEF DAMPER LOUVER
17. REMOVE EXISTING SHEET METAL PIPE COVER, CONCRETE PAD AND UTILITY PIPES CAP AND ABANDON REMAINING PIPES UNDERGROUND - SEE DETAIL 3/A3.11

IDENTIFICATION STAMP
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 DATE: 07/27/2023

Owner:

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 1300 BAKER STREET
 BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT


Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309


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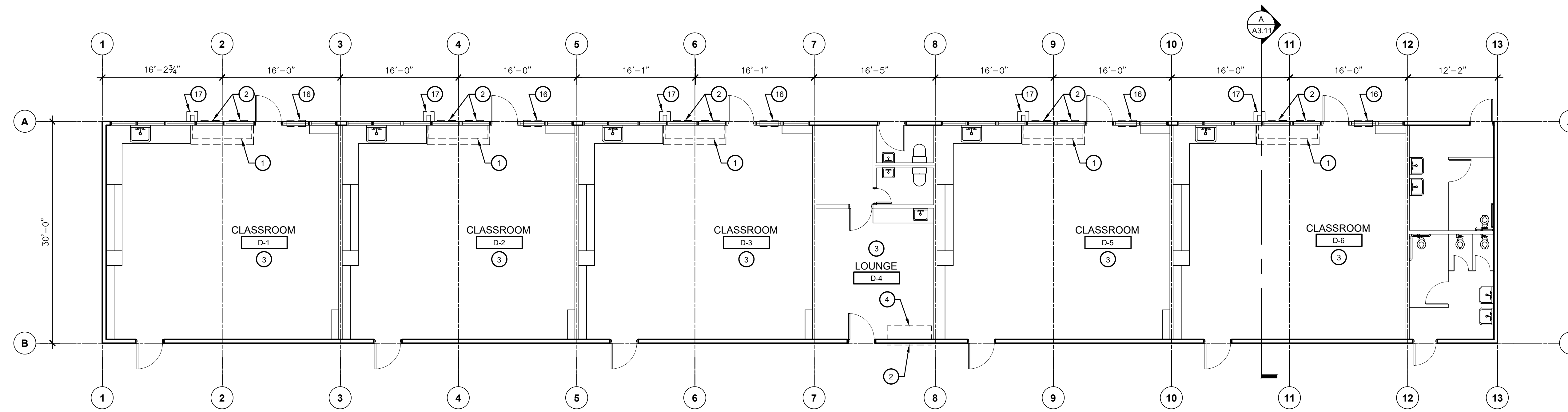
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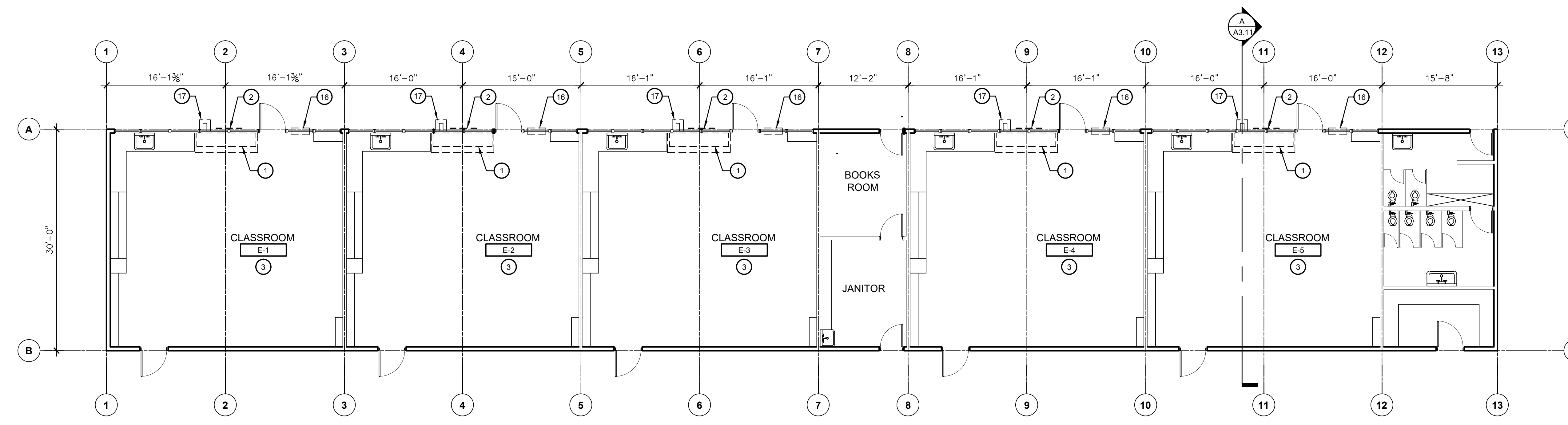
Sheet Title:
DEMOLITION PLANS
 BUILDINGS D, E &
 MECH. ENCLOSURE

Job No.:
5524

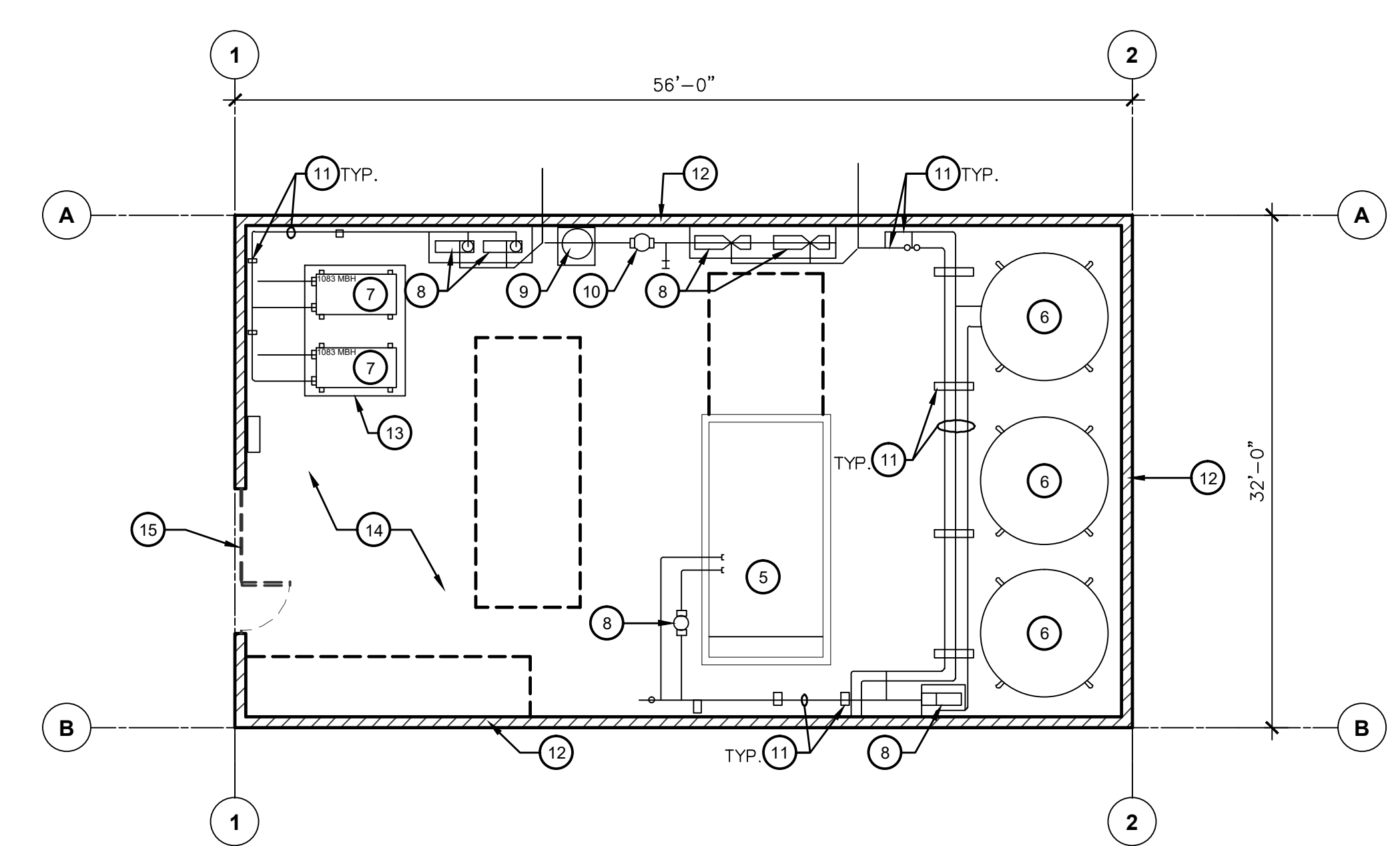
Sheet No.:
A2.11
 Release: DSA SUBMITTAL 11/28/22



 **DEMOLITION PLANS - BUILDING D**
 HVAC REPLACEMENT SCALE: 1/8" = 1'-0"

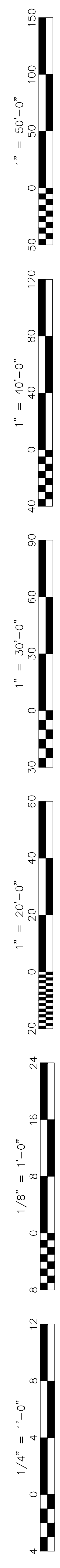


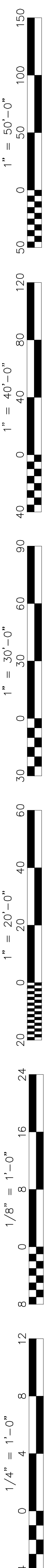
 **DEMOLITION PLANS - BUILDING E**
 HVAC REPLACEMENT SCALE: 1/8" = 1'-0"



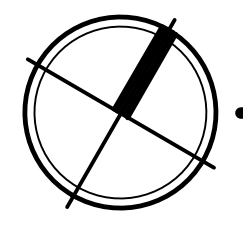
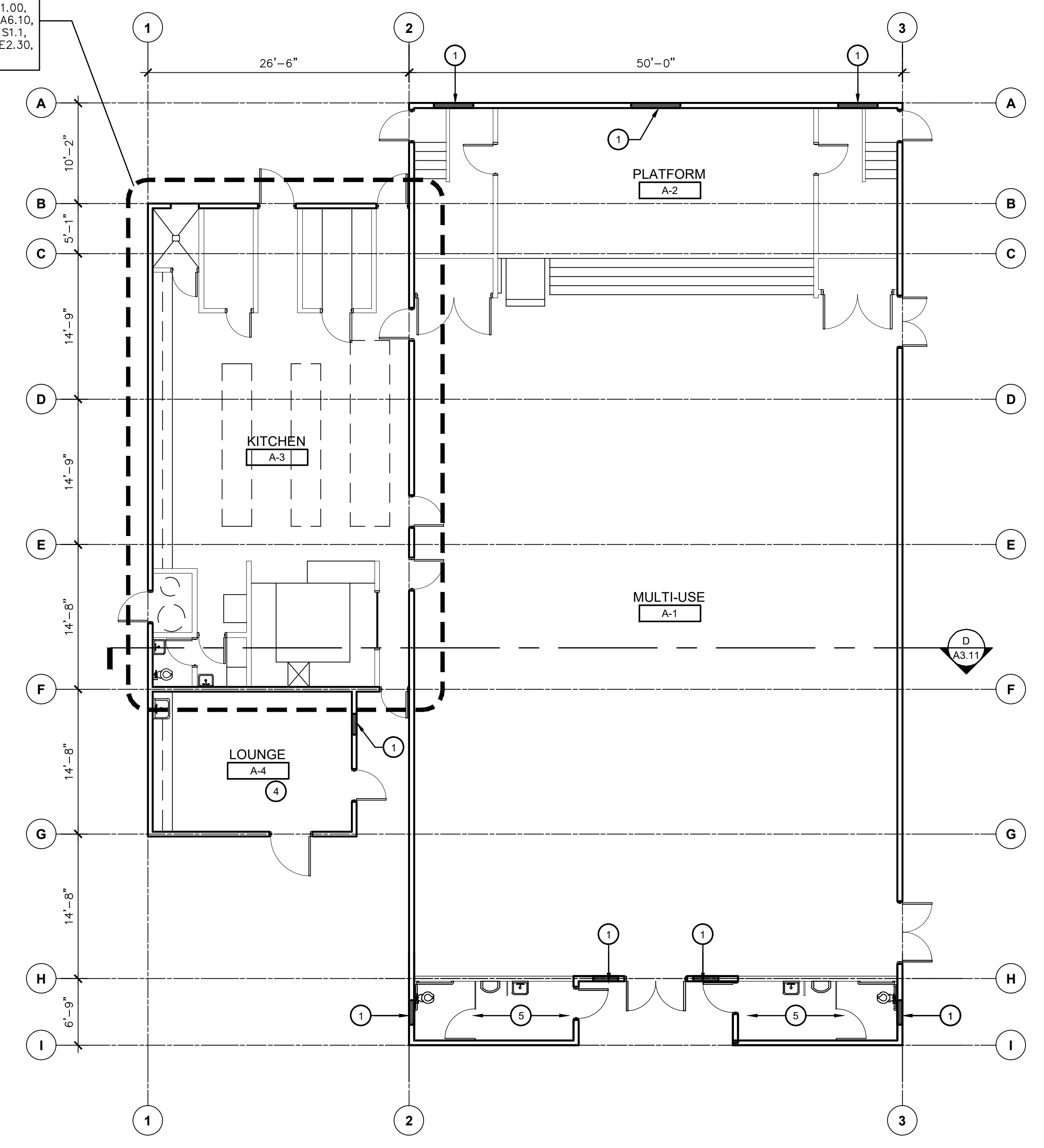
NOTE:
 ALL CHILLER EQUIPMENT SHALL REMAIN OPERATIONAL UNTIL ALL NEW AIR CONDITIONING EQUIPMENT HAS BEEN INSTALLED, APPROVED AND FULLY OPERABLE

 **DEMOLITION PLANS - MECHANICAL ENCLOSURE**
 HVAC REPLACEMENT SCALE: 1/8" = 1'-0"



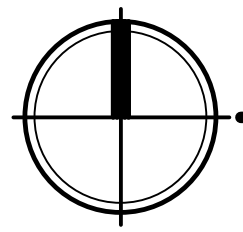
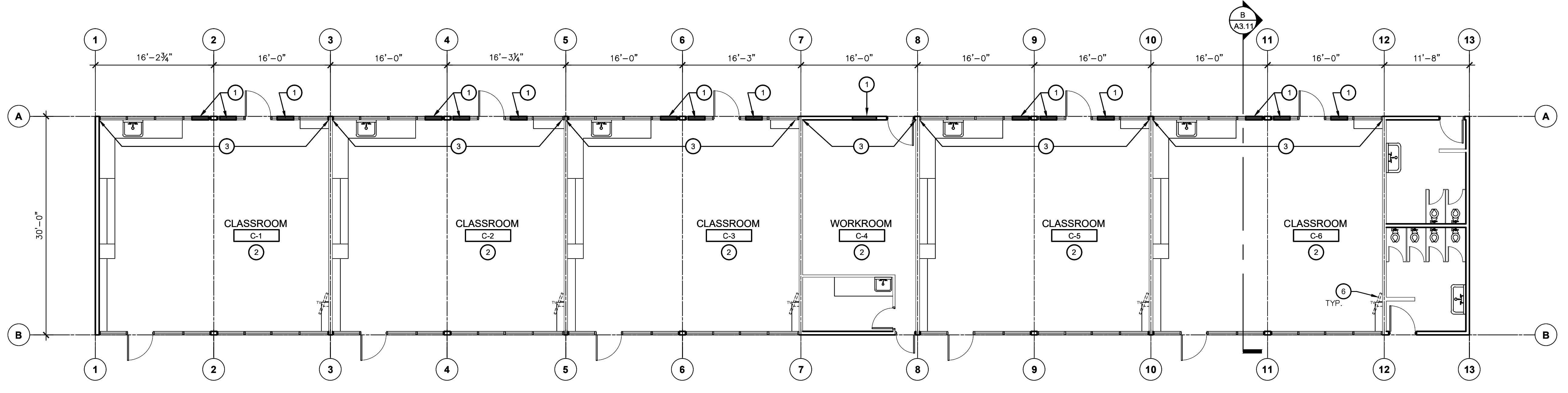


DEDUCTIVE BID
 ALTERNATE No.1
 SEE SHEETS A1.00,
 A2.10, A4.10, A6.10,
 A6.20, M2.12, S1.1,
 E2.00, E2.10, E2.30,
 E3.00, E3.10



FLOOR PLANS - BUILDING A - IMPROVEMENTS
 HVAC REPLACEMENT

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



FLOOR PLANS - BUILDING C - IMPROVEMENTS
 HVAC REPLACEMENT

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

KEY NOTES #

- INFILL OPENING WITH WOOD STUDS, CEMENT PLASTER TO MATCH EXISTING ADJACENT COLOR AND TEXTURE ON THE OUTSIDE AND GYPSUM BOARD TO MATCH EXISTING ADJACENT THICKNESS, COLOR, AND TEXTURE ON THE INSIDE. PROVIDE R-19 BATT INSULATION. SEE 2/A3.11.
- PROVIDE NEW CARPET AS PER SPECIFICATIONS - COLOR TO BE SELECTED BY OWNER.
- PAINT WALL, WINDOW FRAME, COLUMN, DOOR FRAME AND DOOR - COLOR TO BE SELECTED BY OWNER.
- INSTALL NEW CERAMIC TILE FLOORING - SIZE AND COLOR TO BE SELECTED BY OWNER.
- REMOVED EXISTING CEILINGS AND REPLACE WITH NEW T-BAR CEILING - PER 1/A6.01.
- (N) T.V. BRACKET - SEE DETAIL 14/A8.01, OWNER PROVIDED, OWNER INSTALLED.

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 SS FLS ACS
 DATE: 07/27/2023

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BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

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Sheet Title:
FLOOR PLANS IMPROVEMENTS BUILDINGS A & C

Job No.:
5524

Sheet No.:
A2.20
 Release: DSA SUBMITTAL 11/28/22

KEY NOTES

- INFILL OPENING WITH WOOD STUDS, CEMENT PLASTER TO MATCH EXISTING ADJACENT COLOR AND TEXTURE ON THE OUTSIDE AND GYPSUM BOARD TO MATCH EXISTING ADJACENT THICKNESS, COLOR, AND TEXTURE ON THE INSIDE. PROVIDE R-19 BATT INSULATION. SEE DETAIL 2/A3.11
- PROVIDE NEW CARPET AS PER SPECIFICATIONS - COLOR TO BE SELECTED BY OWNER
- PAINT WALL, WINDOW FRAME, COLUMN, DOOR, FRAME AND DOOR - COLOR TO BE SELECTED BY OWNER
- (N) T.V. BRACKET. SEE DETAIL 14/A8.01. OWNER PROVIDED, OWNER INSTALLED.

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BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
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HVAC REPLACEMENT

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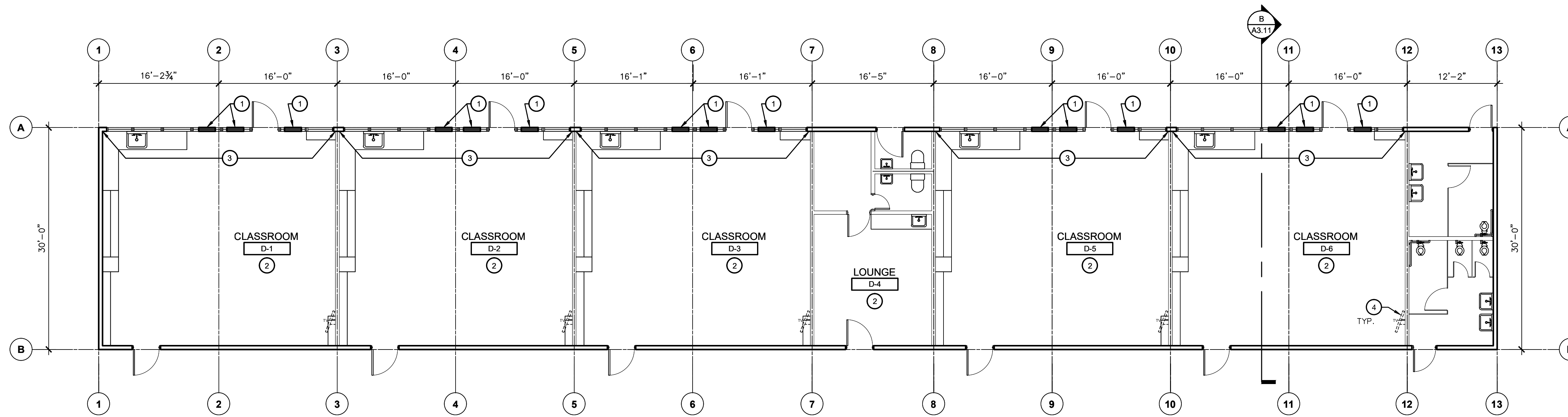
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**FLOOR PLANS
IMPROVEMENTS**
BUILDINGS D & E

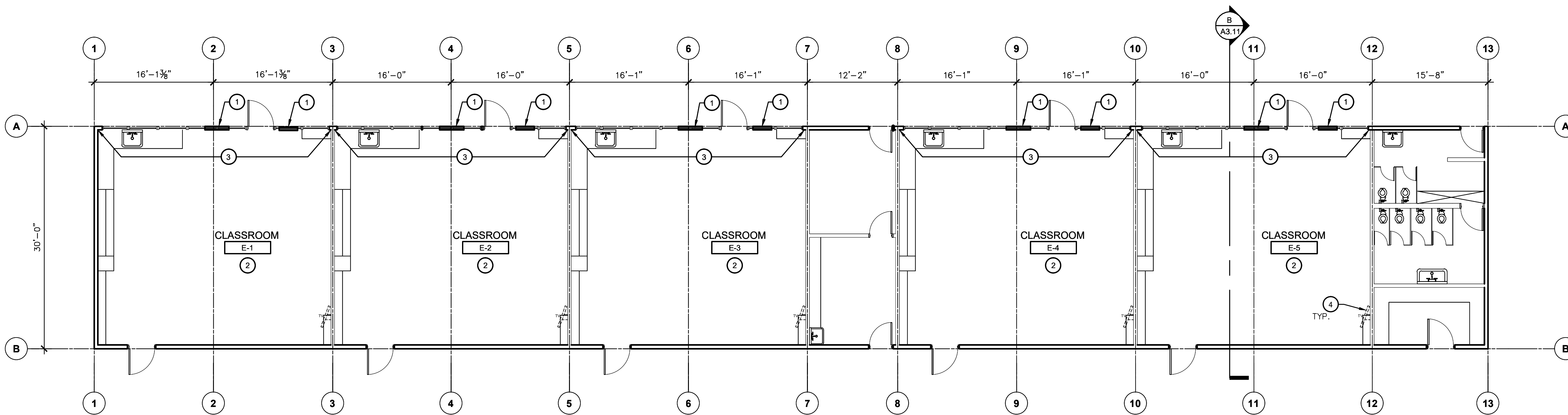
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Sheet No.: **A2.21**
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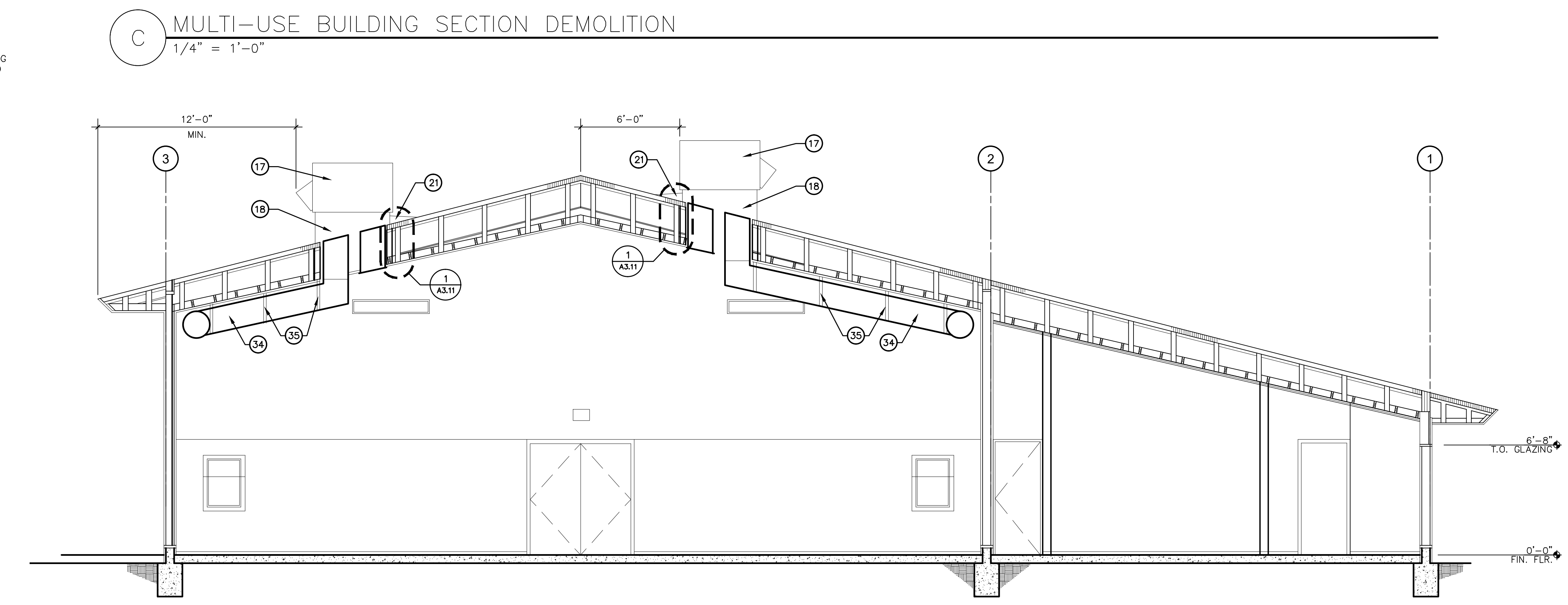
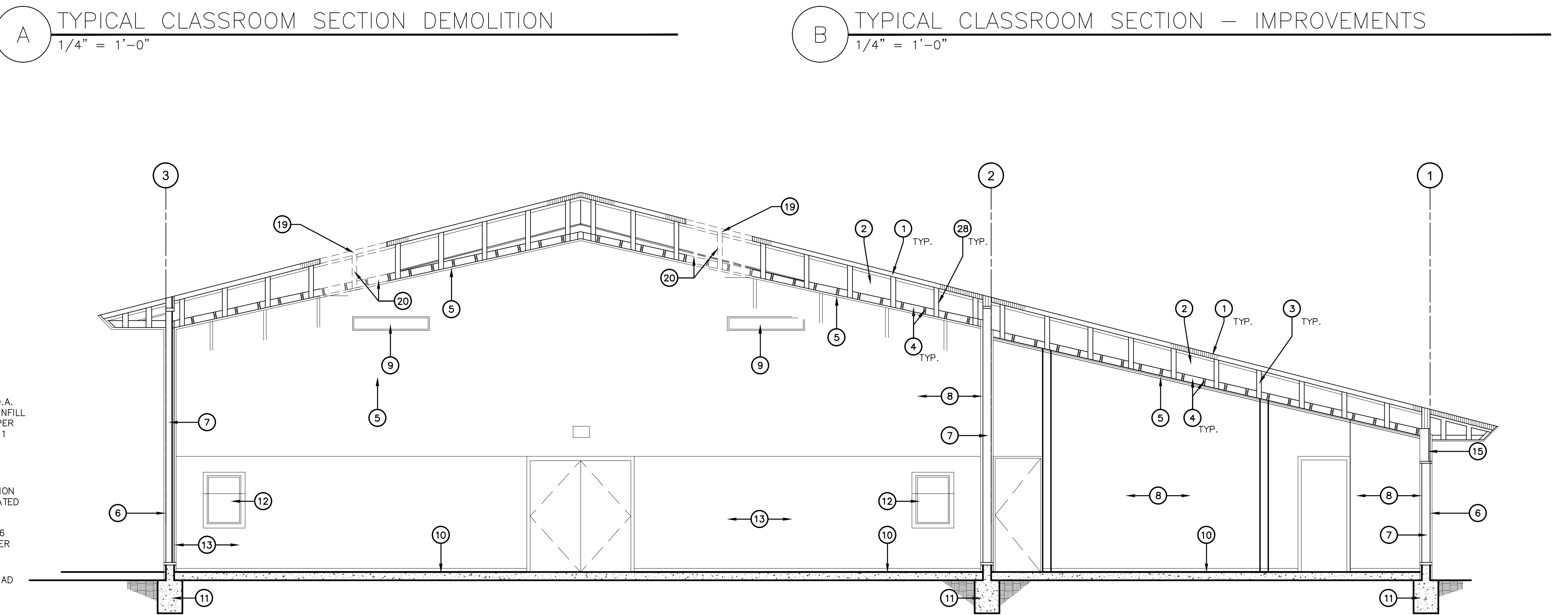
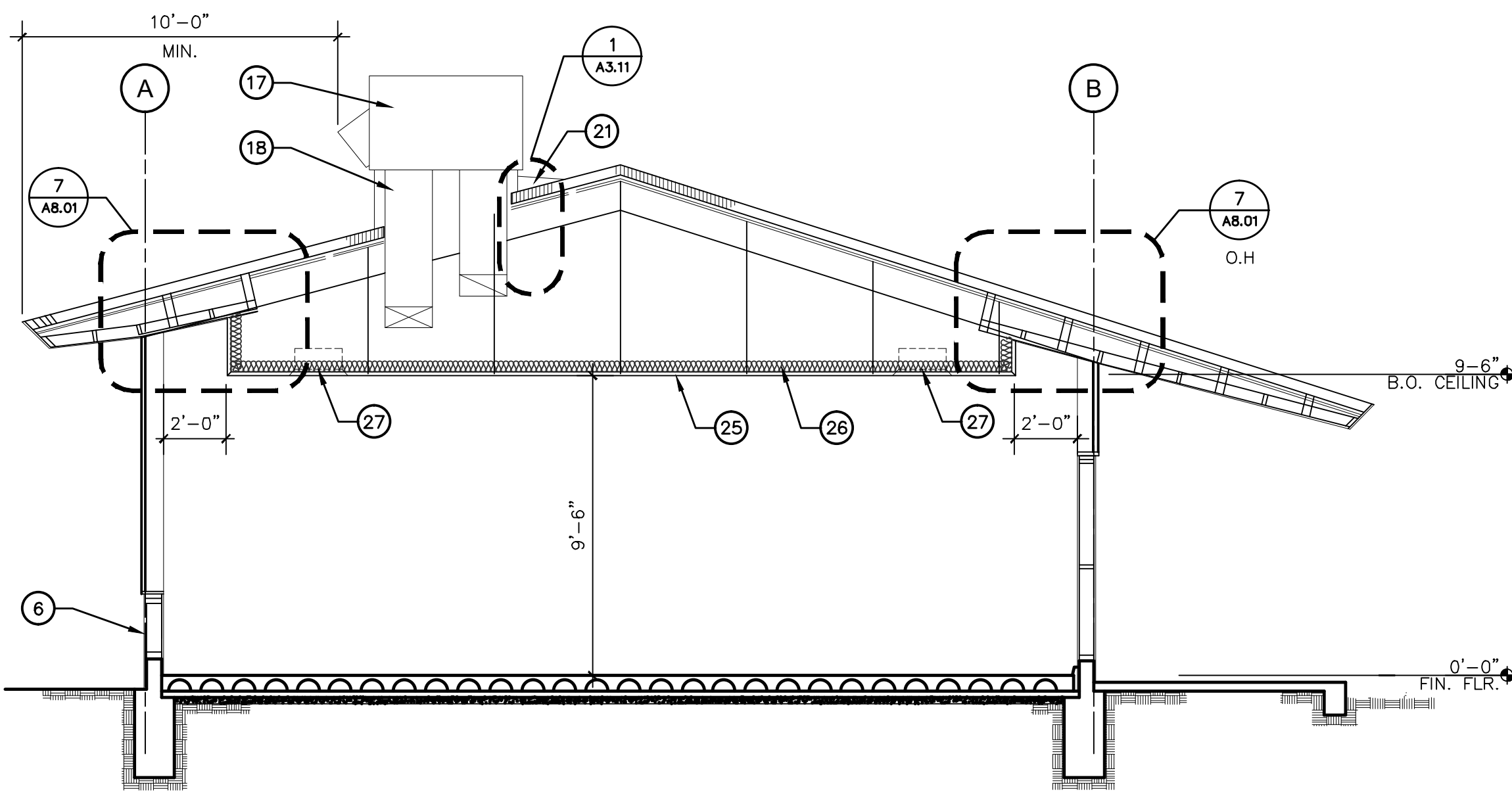
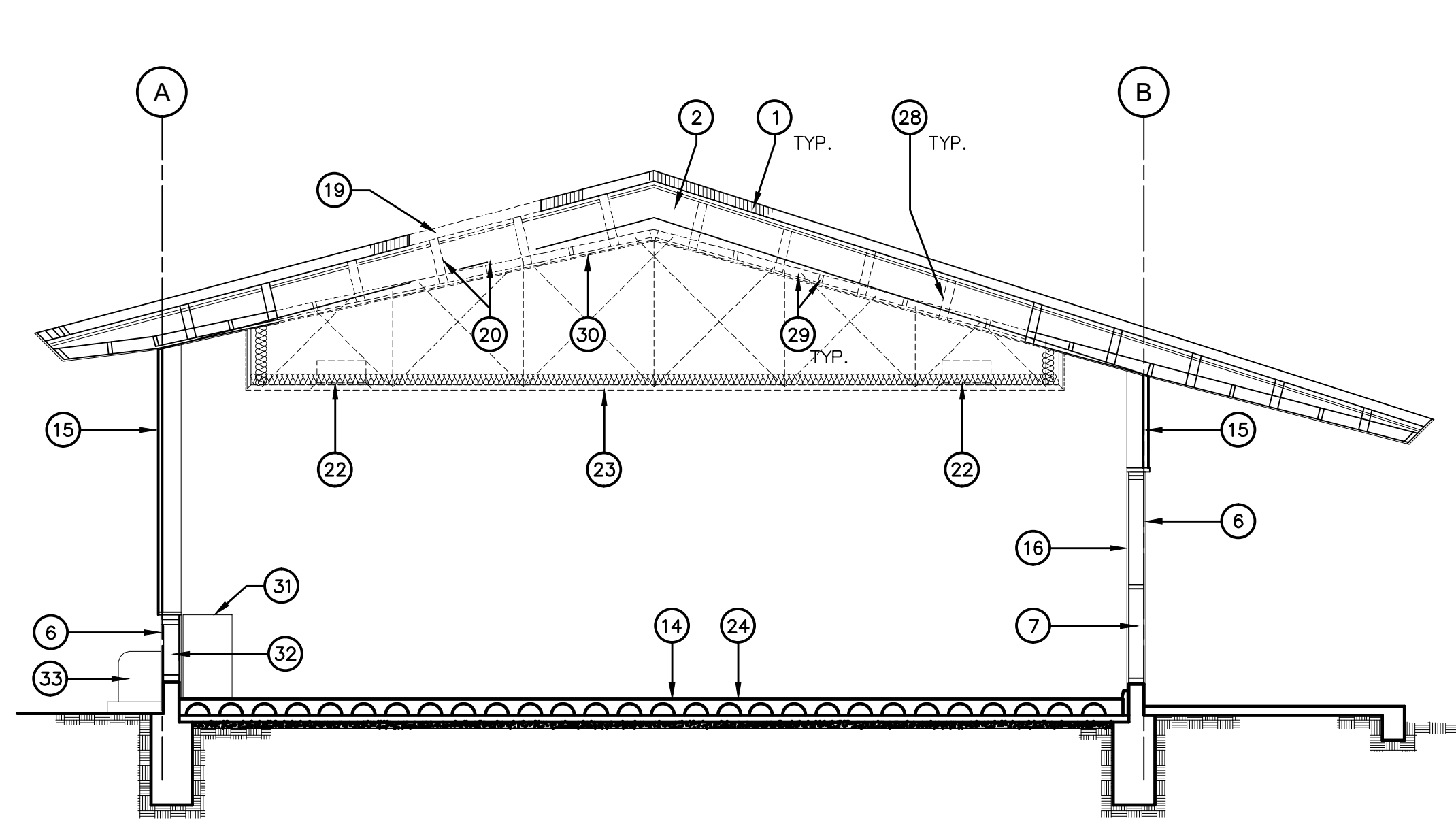
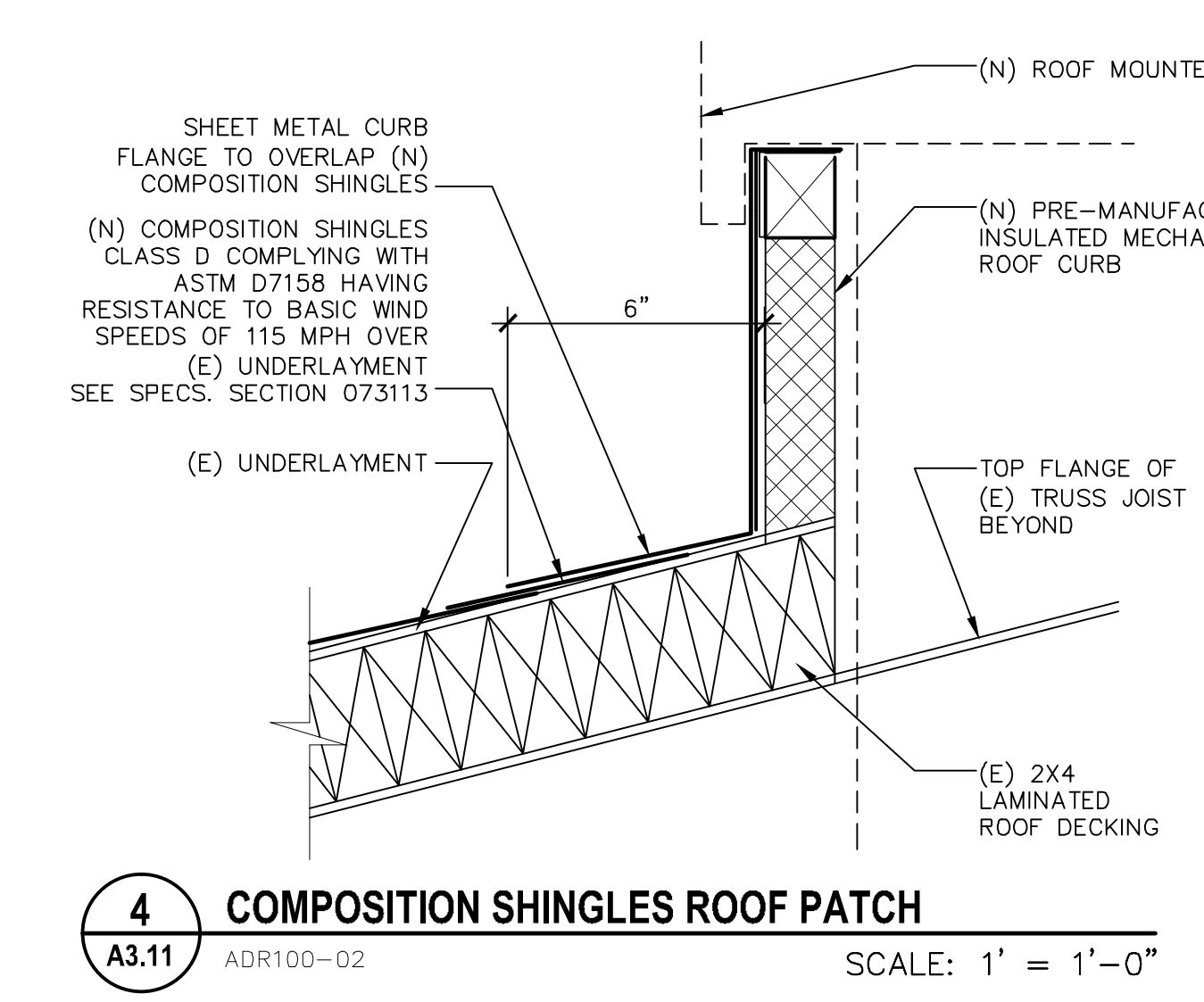
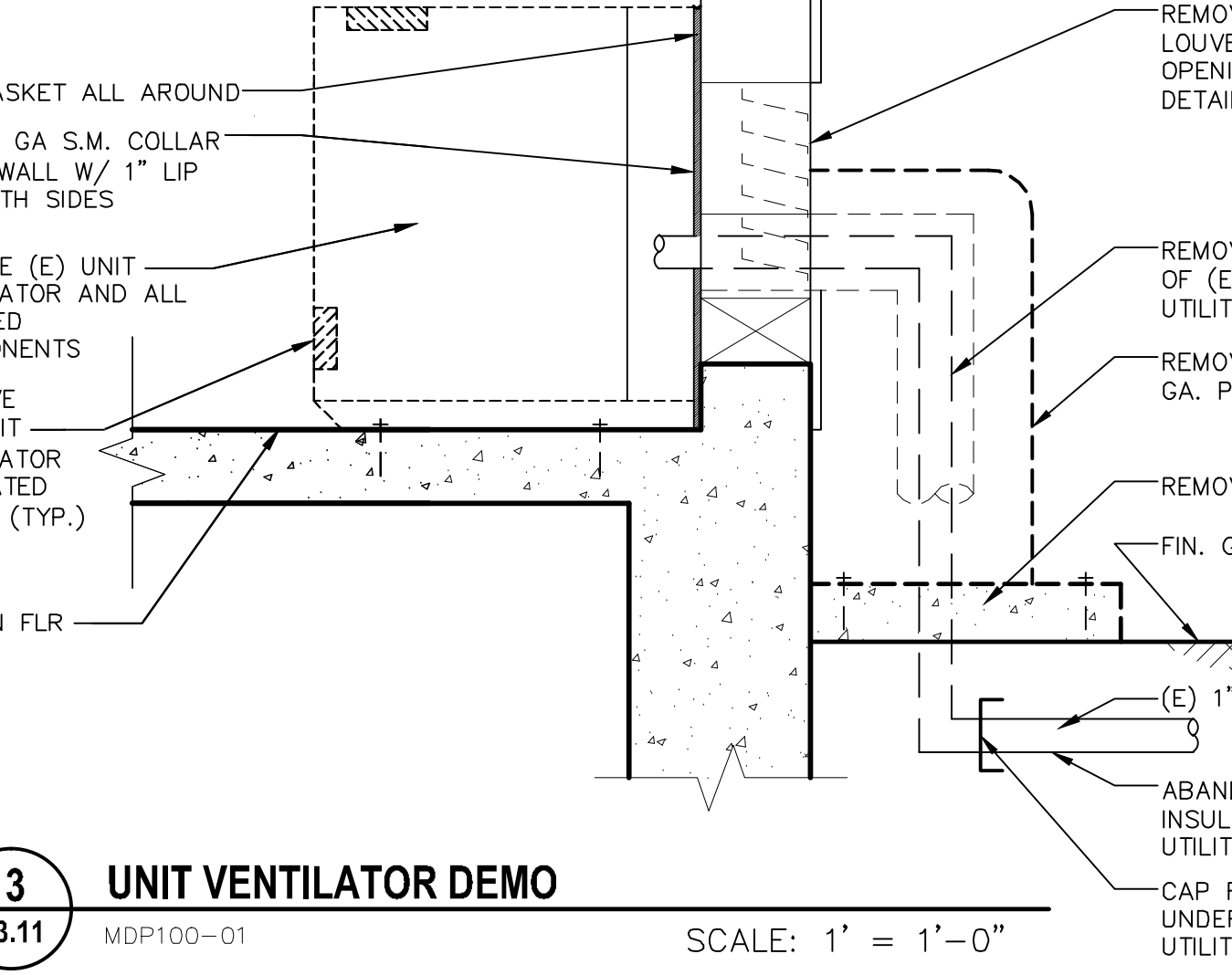
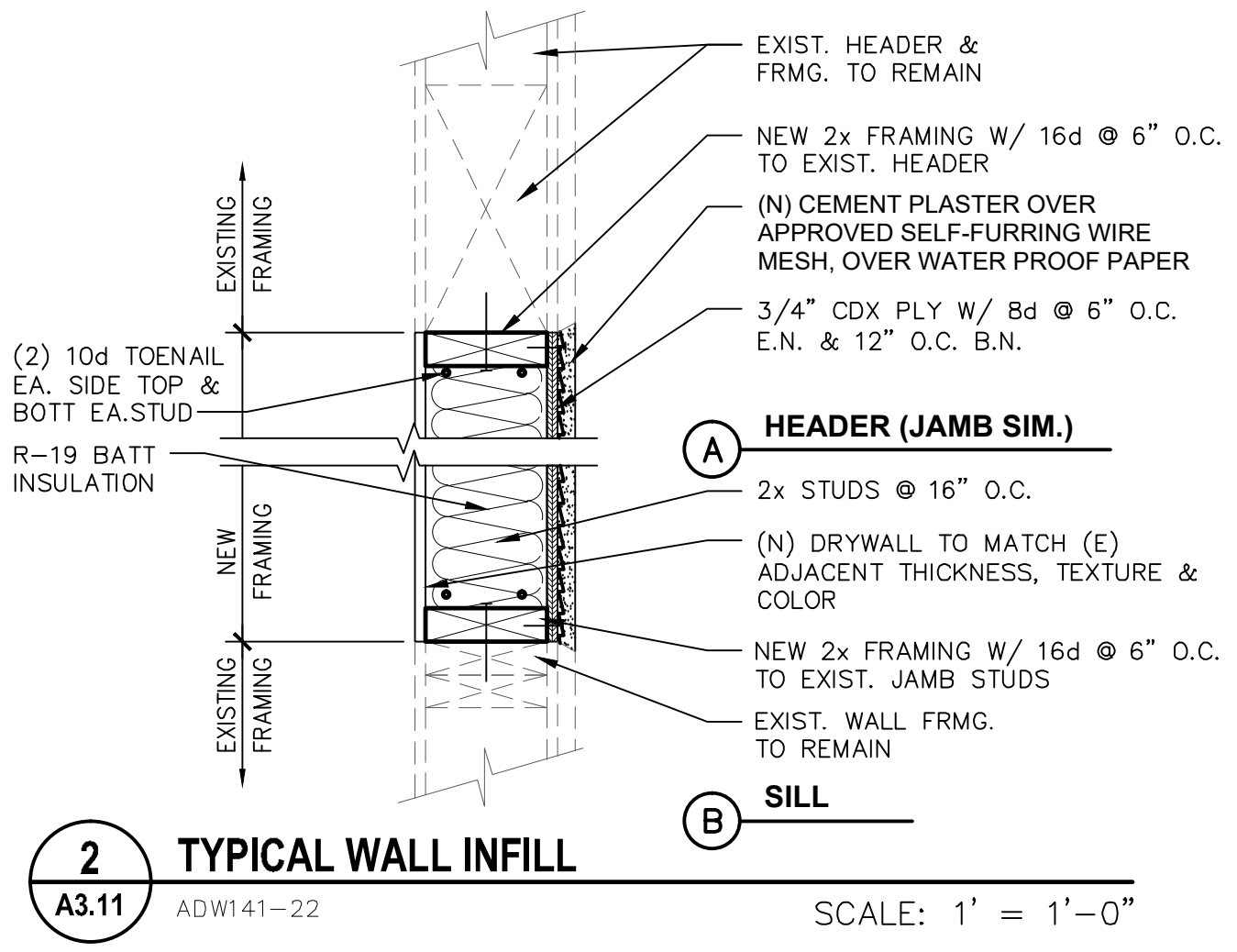
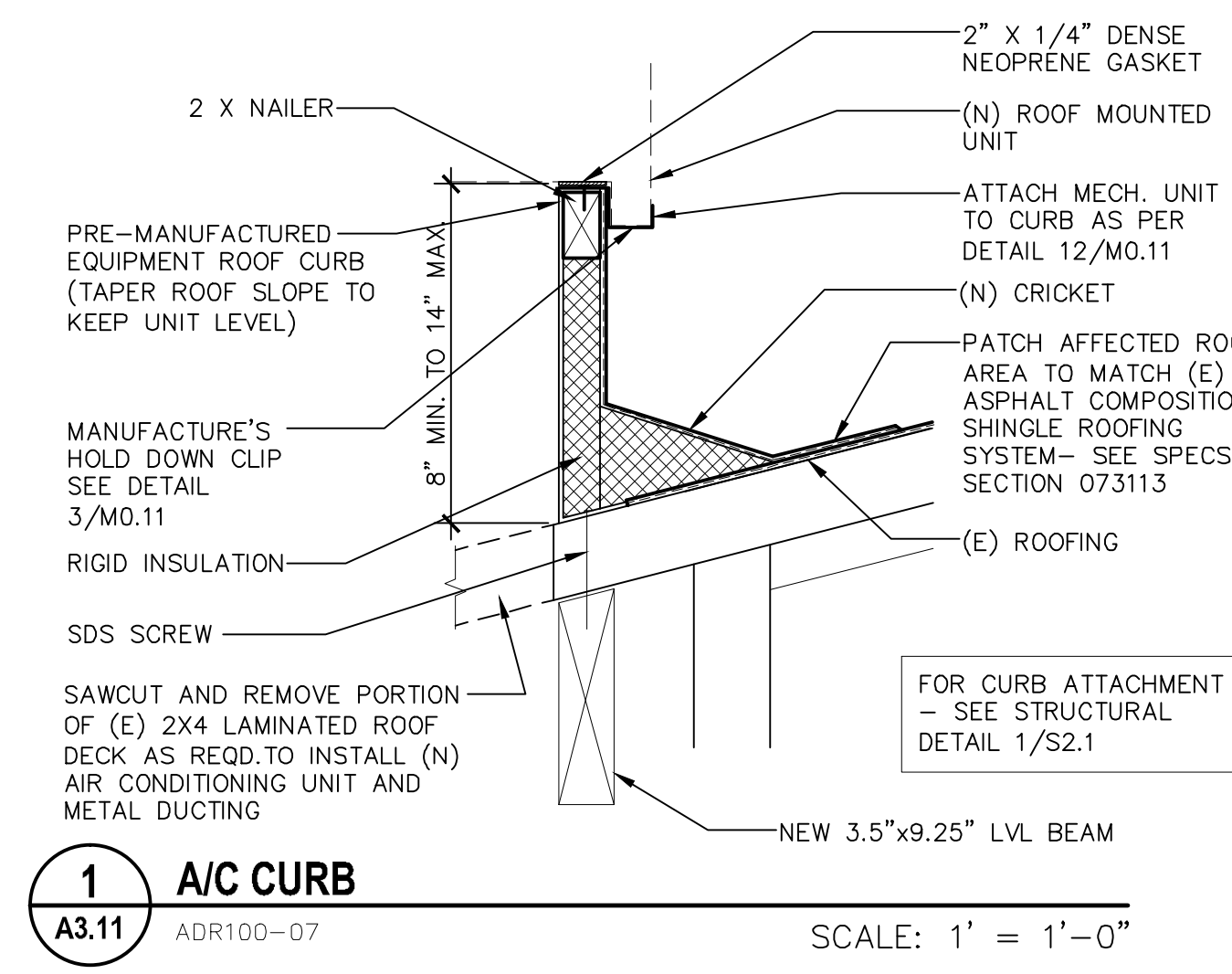
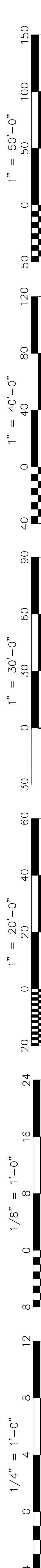
FLOOR PLANS - BUILDING D - IMPROVEMENTS
HVAC REPLACEMENT

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



FLOOR PLANS - BUILDING E - IMPROVEMENTS
HVAC REPLACEMENT

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



KEY NOTES

- (E) COMPOSITION SHINGLES ROOFING OVER 2X4 LAMINATED ROOF DECKING
- (E) WIDE FLANGE BEAM
- (E) 1X4 CEILING HANGERS AT 32" o.c.
- (E) 2X6 CEILING JOISTS AT 18" o.c.
- (E) 1/2" ACOUSTICAL TILE OVER 5/8" GYPSUM BOARD OVER 1X3 STRIPPING AT 12" o.c.
- (E) STUCCO OVER 1" DIAGONAL SHEATHING
- (E) 2X WOOD STUDS WALL FRAMING
- (E) 3/4" PLASTER
- (E) METAL AIR GRILL
- (E) 4" CONCRETE SLAB FLOOR REINFORCED WITH 6" X 6" #10 - #10 WIRE MESH
- (E) CONCRETE FOOTING
- (E) FIRE HOSE CABINET
- (E) PLASTIC TILE WAINSCOT
- (E) AIR-FLOOR SYSTEM
- (E) METAL WINDOW
- (E) 1/2" PLYWOOD PANELING
- NEW SINGLE PACKAGE ROOF TOP UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- NEW PRE-FAB METAL EQUIPMENT CURB - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- SAW CUT AND REMOVE PORTION OF (E) 2X4 LAMINATED ROOF DECKING AS REQUIRED TO INSTALL NEW AIR SUPPLY AND RETURN DUCTS - COORDINATE SIZE AND LOCATION WITH MECHANICAL. SEE STRUCTURAL DRAWINGS FOR ROOF DECK OPENINGS REINFORCING
- SAW CUT AND REMOVE PORTION OF SUSPENDED CEILING SUPPORTS AS REQUIRED TO INSTALL NEW AIR SUPPLY AND RETURN DUCTS - COORDINATE SIZE AND LOCATION WITH MECHANICAL
- REMOVE PORTION OF (E) COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW EQUIPMENT CURB. PROVIDE A CRICKET TO DIVERT RAIN WATER
- REMOVE AND SALVAGE FOR RELOCATION (E) IONIZERS, SPEAKERS, DETECTORS, SENSORS AND FUNCTIONING APPURTENANCES.
- REMOVE SUSPENDED ACOUSTICAL TILE CEILING AND INSULATION
- REMOVE (E) CARPET, VAT TILE FLOORING AND MASTIC
- NEW SUSPENDED ACOUSTIC CEILING SYSTEM - SEE DETAIL 1/A8.01
- NEW R-30 LAY-ON BATT INSULATION
- RE-INSTALL SALVAGED IONIZER - SEE CLASSROOMS REFLECTED CEILING ON SHEETS A8.20 AND A8.21 FOR LOCATION AND DETAIL 1/A8.01 FOR INSTALLATION.
- REMOVE (E) 1X4 CEILING HANGERS AT 32" o.c. WITHIN THE NEW SUSPENDED ACOUSTICAL TILE CEILING AREA
- REMOVE (E) 2X6 CEILING JOISTS AT 18" o.c. WITHIN THE NEW SUSPENDED ACOUSTICAL TILE CEILING AREA
- REMOVE (E) 1/2" ACOUSTICAL TILE, 5/8" GYPSUM BOARD, AND 1X3 STRIPPING AT 12" o.c. WITHIN THE NEW SUSPENDED ACOUSTICAL TILE CEILING AREA
- REMOVE (E) UNIT VENTILATOR AND ALL RELATED COMPONENTS, CONTROLS, ETC. - SEE DETAIL 3/A3.11
- REMOVE OUTSIDE AIR LOUVER - SEE DETAIL 3/A3.11
- REMOVE (E) SHEET METAL PIPE COVER, CONCRETE PAD, AND UTILITIES PIPES - SEE DETAIL 3/A3.11
- NEW AIR SUPPLY SHEET METAL DUCT.
- SHEET METAL STRAP SUPPORT - SEE DETAIL 5/M0.11

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1300 BAKER STREET
BAKERSFIELD, CA 93305

HVAC REPLACEMENT

MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

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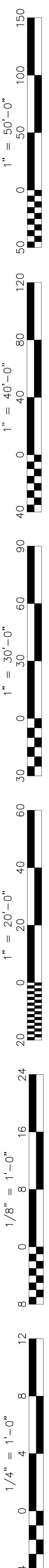
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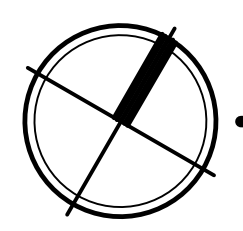
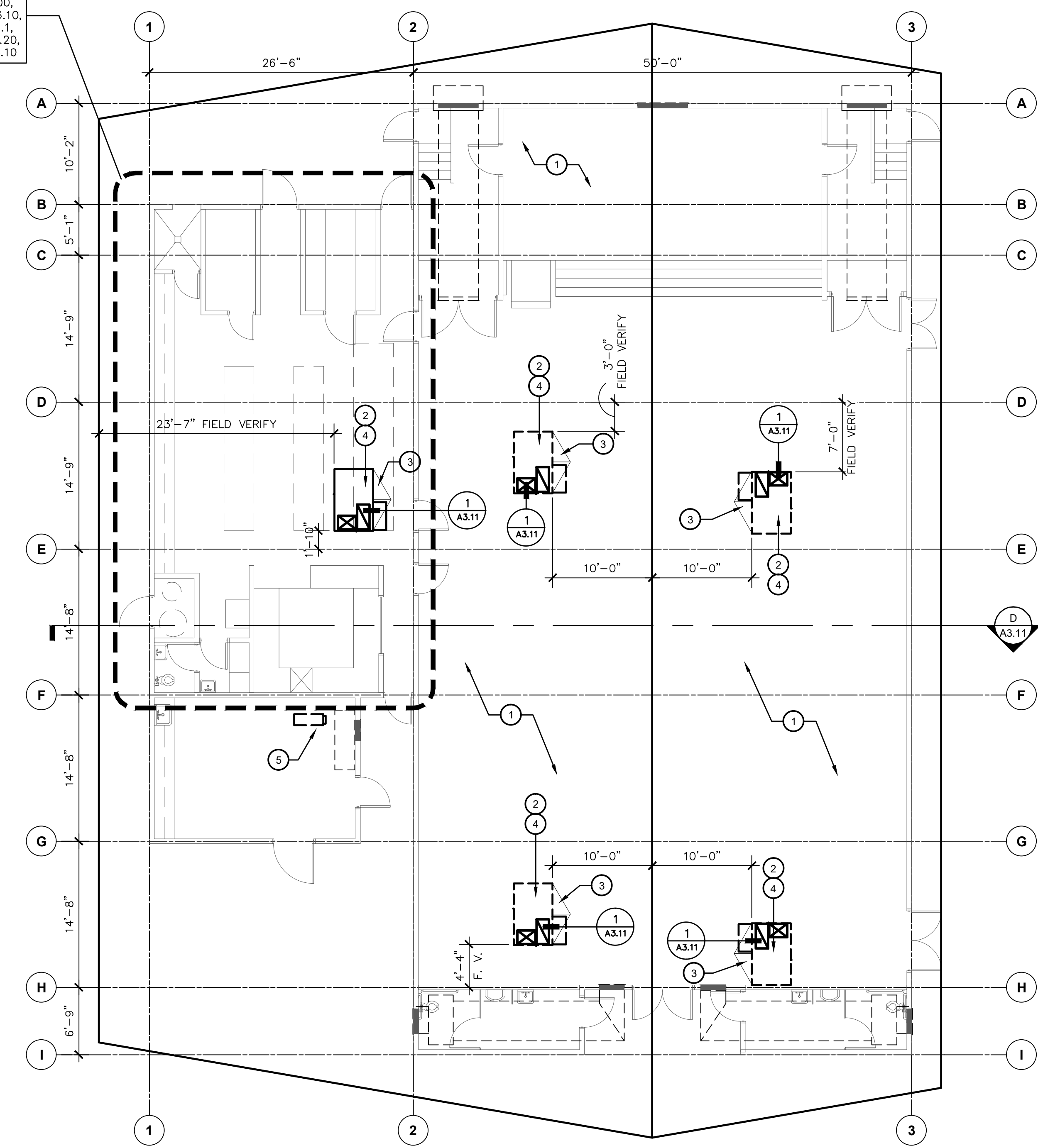
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SECTIONS
BLDG. A, C, D & E

Job No.: **5524**

Sheet No.: **A3.11**
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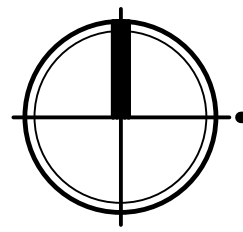
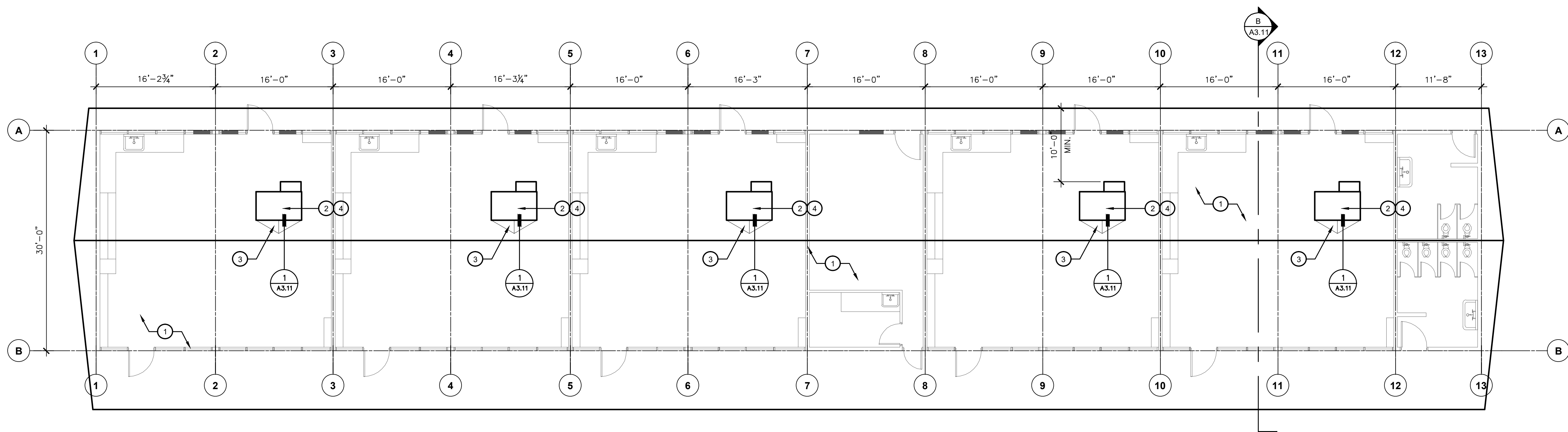


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A2.10, A2.20, A6.10,
A6.20, M2.12, S1.1,
E2.00, E2.10, E2.20,
E2.30, E3.00, E3.10



ROOF PLANS - BUILDING A
HVAC REPLACEMENT

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



ROOF PLANS - BUILDING C
HVAC REPLACEMENT

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

KEY NOTES #

- (E) COMPOSITION SHINGLES ROOFING OVER 2X4 LAMINATED ROOF DECKING
- NEW SINGLE PACKAGE ROOF TOP UNIT ON NEW PRE-FAB CURB - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- REMOVE PORTION OF (E) COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW EQUIPMENT CURB - PROVIDE CRICKET TO DIVERT RAIN WATER AND PATCH AFFECTED ROOF AREA TO CLOSELY MATCH (E) ROOFING - SEE DETAIL 4/A3.11
- SAW CUT AND REMOVE PORTION OF (E) 2X4 LAMINATED ROOF DECK AS REQUIRED TO INSTALL AIR DUCTS - COORDINATE SIZE AND LOCATION WITH MECHANICAL DRAWINGS - SEE STRUCTURAL DRAWINGS FOR REINFORCING OF ROOF OPENINGS.
- OUTDOOR UNIT OD/JA1 - SEE MECHANICAL SHEET M1.12 MECHANICAL PLAN BUILDING A IMPROVEMENTS AND DETAIL 12/M0-11

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GENERAL NOTES

- CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO THE (E) ROOFING
- CONTRACTOR SHALL PATCH AND REPAIR ROOFING AT ALL NEW ROOF PENETRATIONS TO PROVIDE A WATER TIGHT INSTALLATION

Owner:

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1300 BAKER STREET
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Project Name:
HVAC REPLACEMENT

Project Address:
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3801 BRAVE AVENUE
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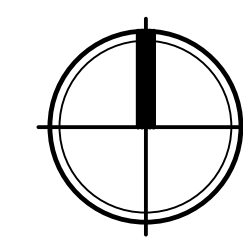
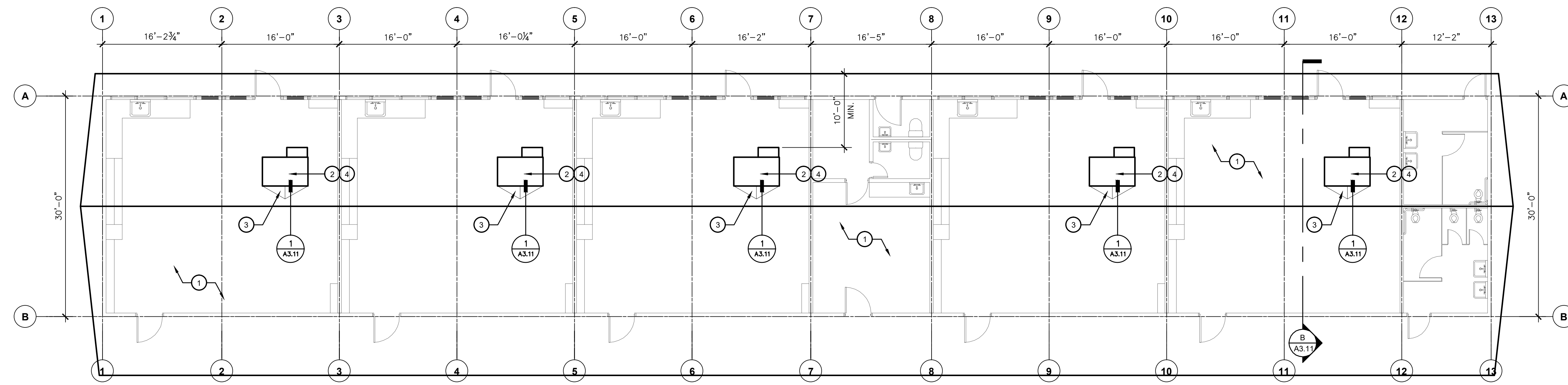
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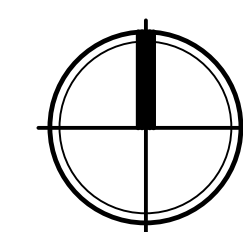
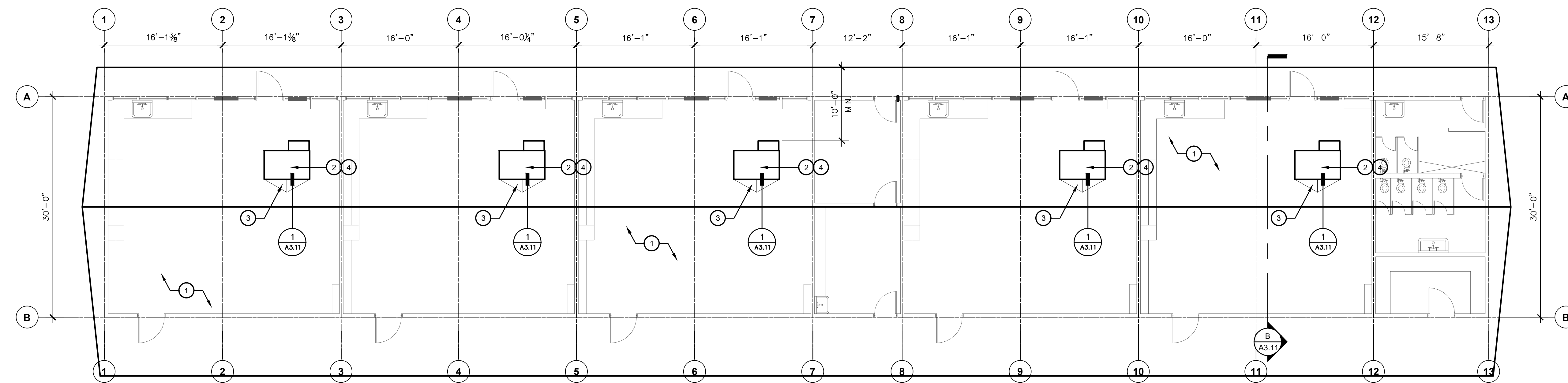
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ROOF PLANS - BUILDING D
HVAC REPLACEMENT

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



ROOF PLANS - BUILDING E
HVAC REPLACEMENT

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

KEY NOTES #

- (E) COMPOSITION SHINGLES ROOFING OVER 2X4 LAMINATED ROOF DECKING
- NEW SINGLE PACKAGE ROOF TOP UNIT ON NEW PRE-FAB CURB - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- REMOVE PORTION OF (E) COMPOSITION SHINGLES AS REQUIRED TO INSTALL NEW EQUIPMENT CURB - PROVIDE CRICKET TO DIVERT RAIN WATER AND PATCH AFFECTED ROOF AREA TO CLOSELY MATCH (E) ROOFING - SEE DETAIL 4/A3.11
- SAW CUT AND REMOVE PORTION OF (E) 2X4 LAMINATED ROOF DECK AS REQUIRED TO INSTALL AIR DUCTS - COORDINATE SIZE AND LOCATION WITH MECHANICAL DRAWINGS - SEE STRUCTURAL DRAWINGS FOR REINFORCING OF ROOF OPENINGS.

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Project Name:
HVAC REPLACEMENT

Project Address:
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3801 BRAVE AVENUE
BAKERSFIELD, CA 93309



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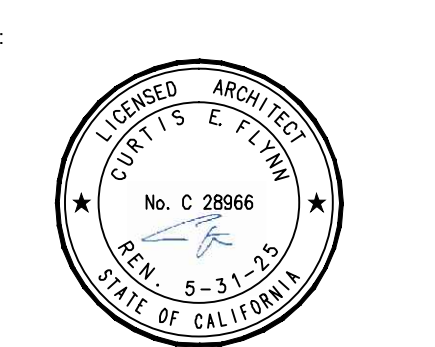
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GENERAL NOTES

- CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO THE (E) ROOFING
- CONTRACTOR SHALL PATCH AND REPAIR ROOFING AT ALL NEW ROOF PENETRATIONS TO PROVIDE A WATER TIGHT INSTALLATION

LEGEND

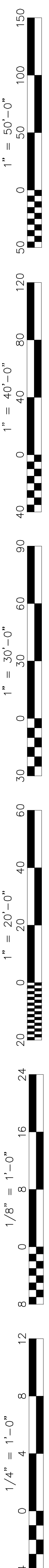
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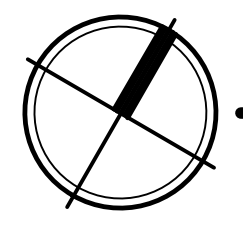
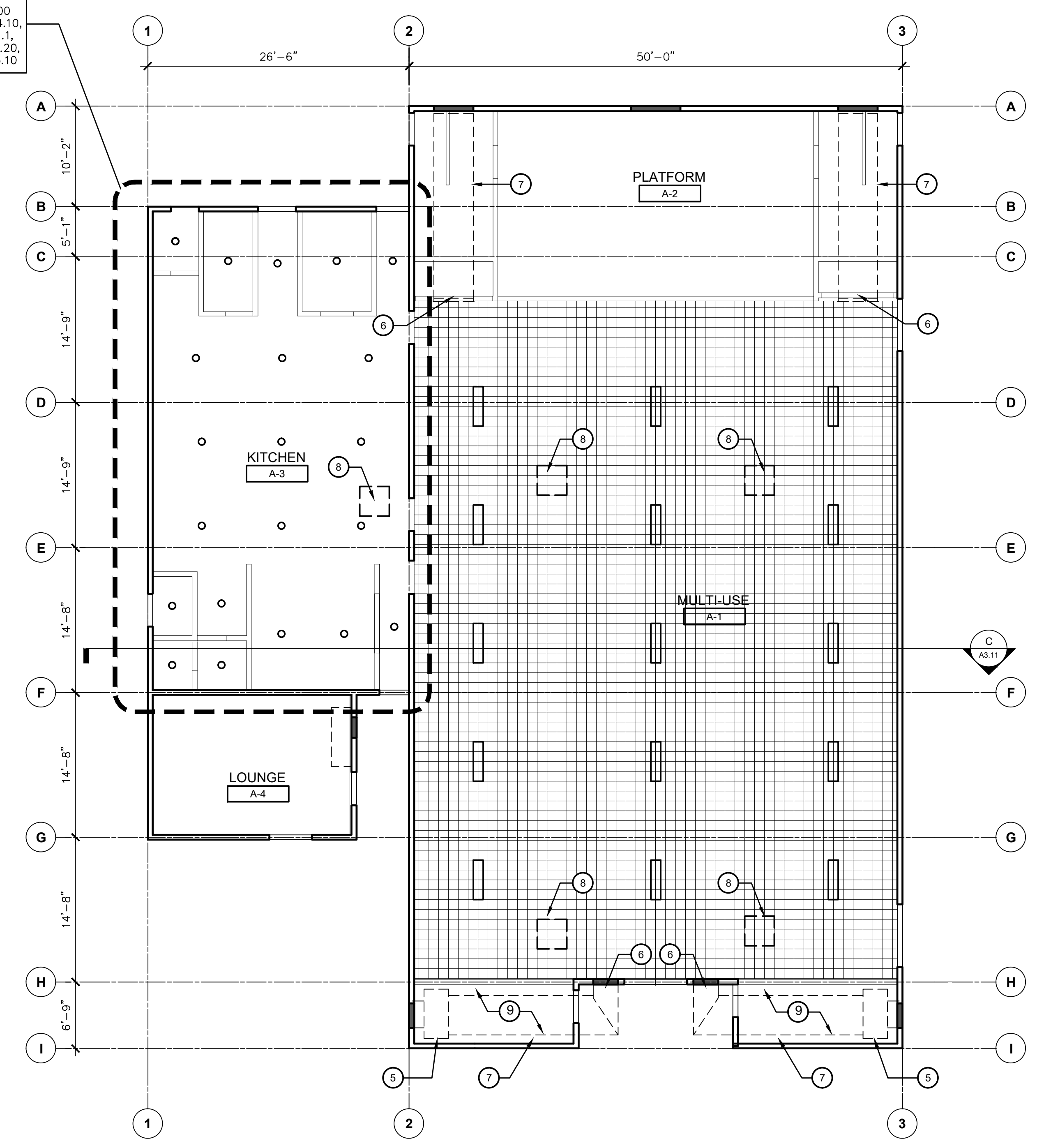
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ROOF PLANS BUILDINGS D & E

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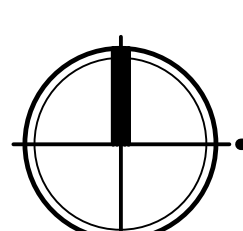
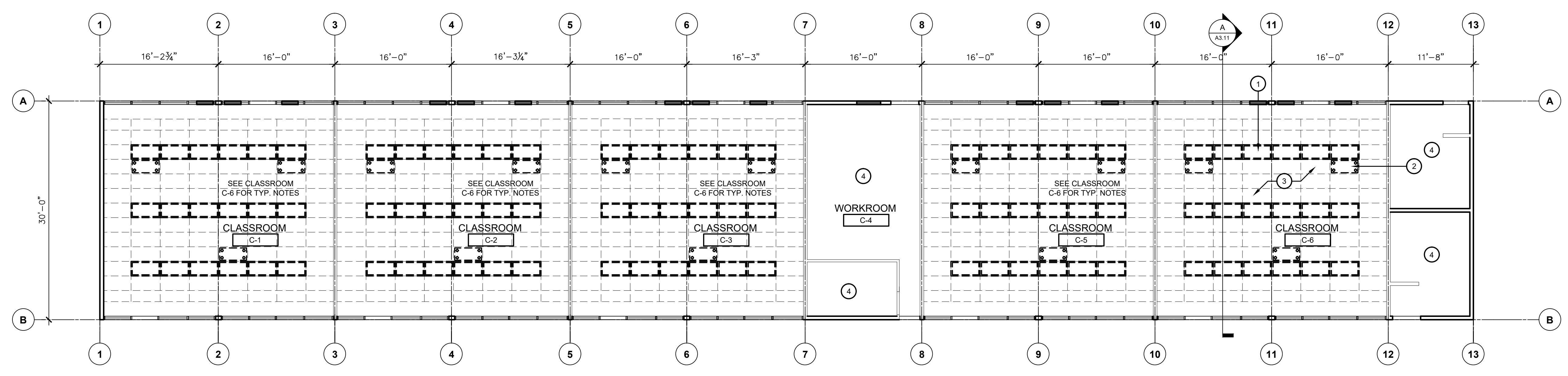


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A6.20, M2.12, S1.1,
E2.00, E2.10, E2.20,
E2.30, E3.00, E3.10



DEMO REFLECTED CEILING PLAN - BUILDING A
HVAC REPLACEMENT

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



DEMO REFLECTED CEILING PLAN - BUILDING C
HVAC REPLACEMENT

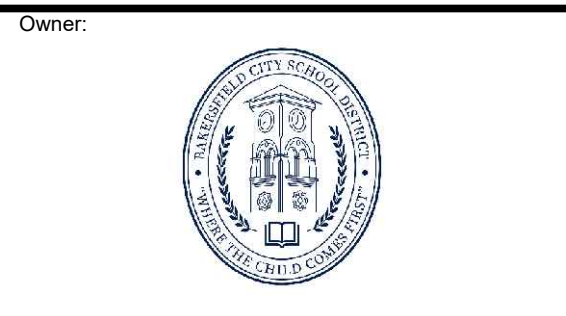
SCALE: 1/8" = 1'-0"

KEY NOTES #

1. REMOVE (E) FLUORESCENT LIGHT FIXTURES
2. REMOVE (E) IONIZERS AND SALVAGE FOR RELOCATION. SEE SHEET A6.20 FOR NEW LOCATION.
3. REMOVE (E) SUSPENDED ACOUSTICAL CEILING, SPEAKERS, PROJECTORS, STROBE LIGHTS, SENSORS, ETC. SHALL BE SALVAGED FOR RELOCATION. SPEAKERS, & PROJECTORS TO BE RETURNED TO SCHOOL DISTRICT.
4. NO WORK IN THIS ROOM
5. REMOVE (E) FAN COIL AND ALL RELATED COMPONENTS, PIPING CONTROLS, RTC.
6. REMOVE (E) WALL GRILL AND PATCH OPENING TO MATCH (E) ADJACENT SURFACES
7. REMOVE (E) DUCTWORK
8. REMOVE PORTION OF (E) ACOUSTICAL TILES OVER 5/8" GYP BOARD AS REQUIRED TO INSTALL NEW DUCTWORK - SEE MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.
9. REMOVED EXISTING CEILING.

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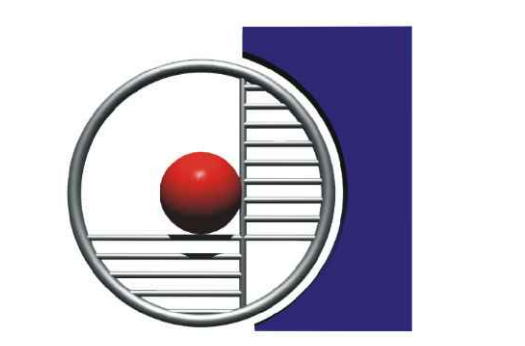
GENERAL NOTES



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1300 BAKER STREET
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Project Name:
HVAC REPLACEMENT

Project Address:
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BAKERSFIELD, CA 93309



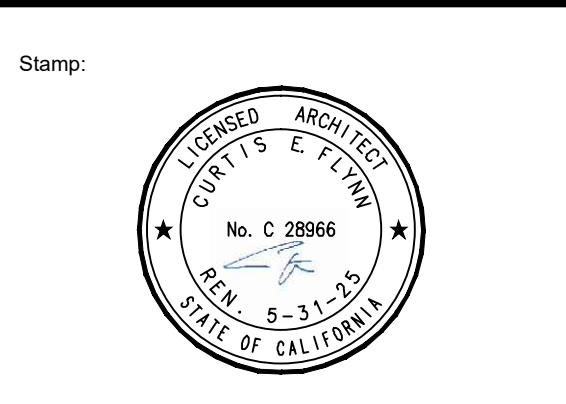
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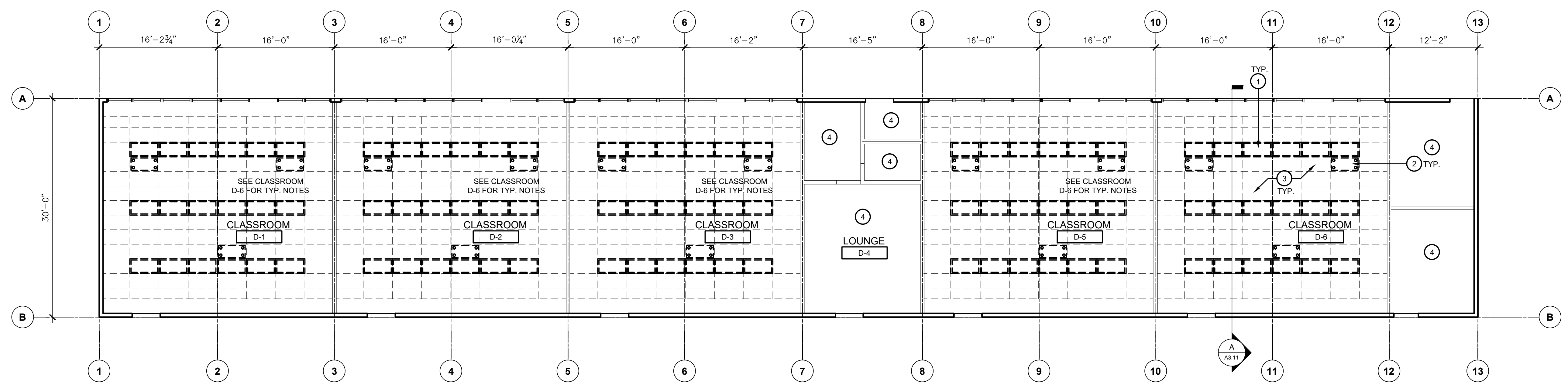
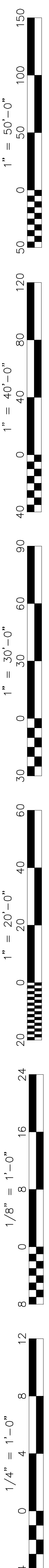
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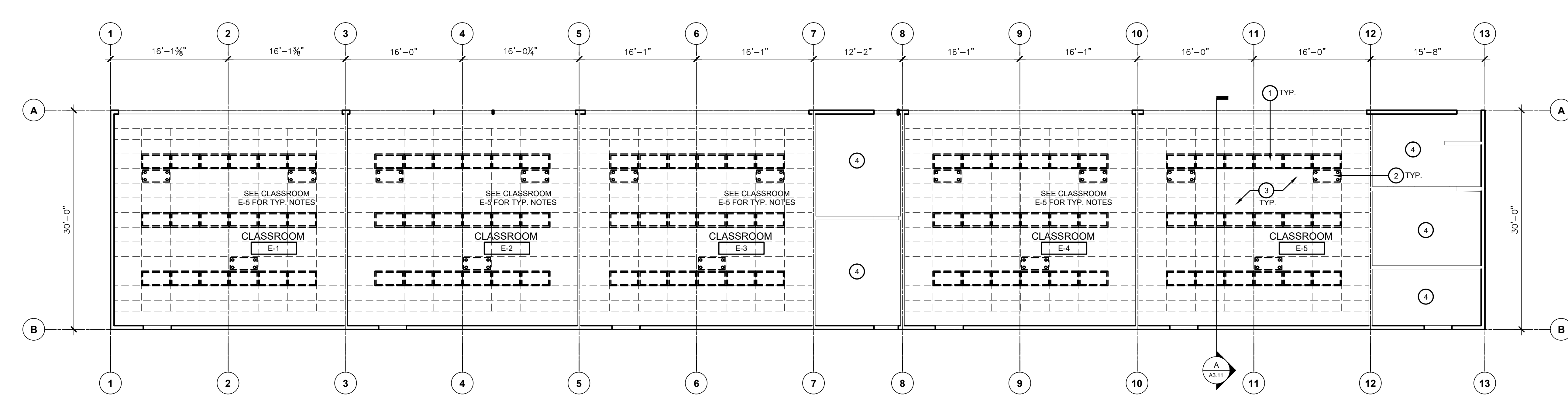
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DEMO REFLECTED CEILING PLAN
BUILDINGS A & C

Job No.:
5524

Sheet No.:
A6.10
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DEMO REFLECTED CEILING PLAN - BUILDING D
 HVAC REPLACEMENT
 SCALE: 1/8" = 1'-0"



DEMO REFLECTED CEILING PLAN - BUILDING E
 HVAC REPLACEMENT
 SCALE: 1/8" = 1'-0"

KEY NOTES #

- REMOVE (E) FLUORESCENT LIGHT FIXTURES
- REMOVE (E) IONIZER AND SALVAGE FOR RELOCATION. SEE SHEET A6.21 FOR NEW LOCATION.
- REMOVE (E) SUSPENDED ACOUSTICAL CEILING, SPEAKERS, PROJECTORS, STROBE LIGHTS, SENSORS, ETC. SHALL BE SALVAGED FOR RELOCATION. SPEAKERS, & PROJECTORS TO BE RETURNED TO SCHOOL DISTRICT.
- NO WORK IN THIS ROOM

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Project Address:
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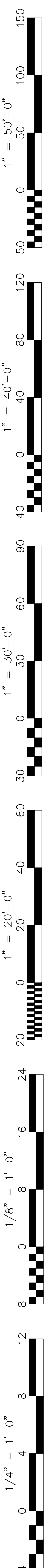
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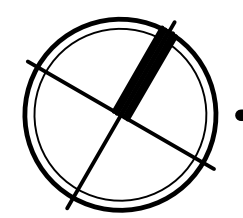
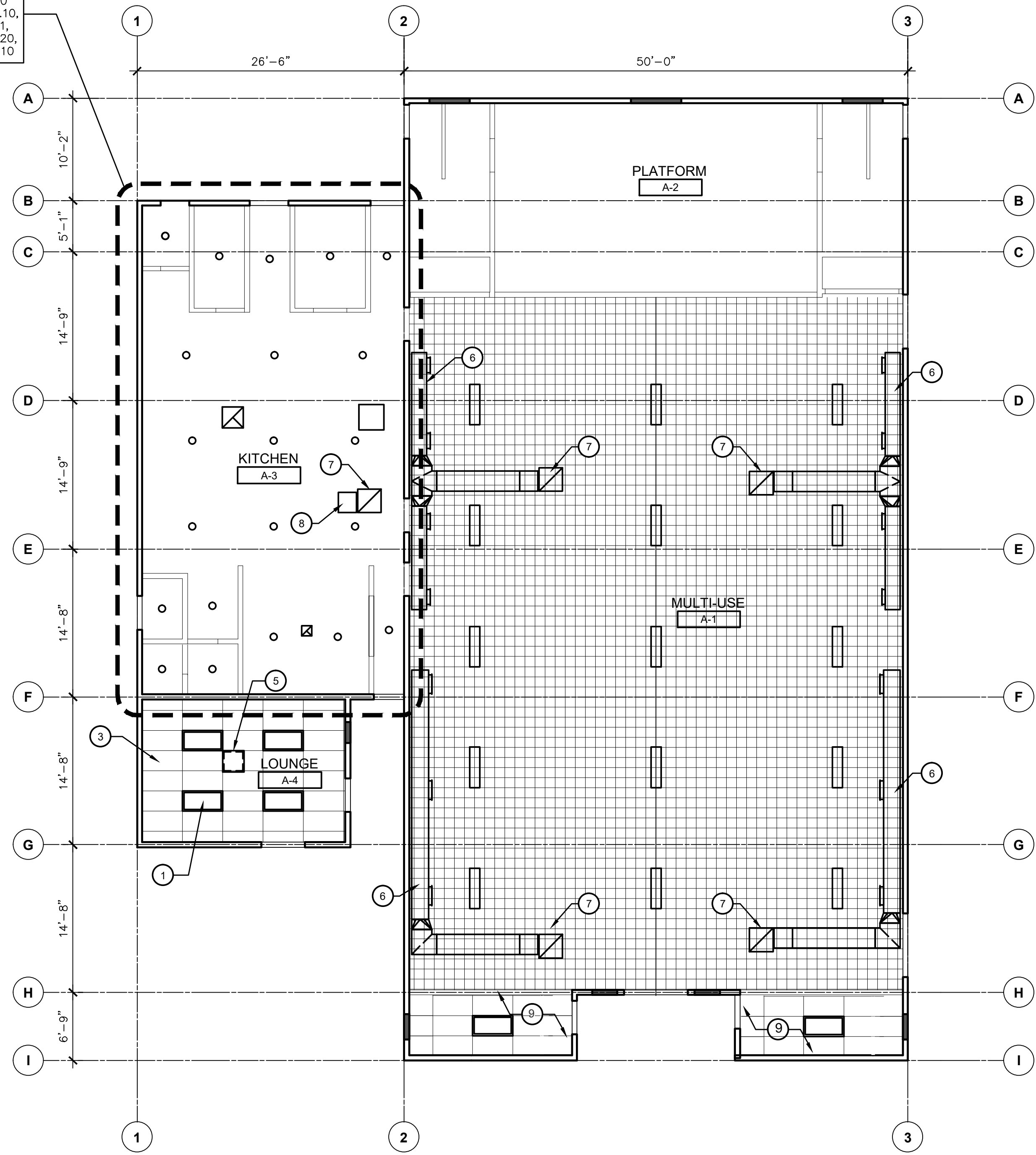
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DEMO REFLECTED CEILING PLAN
 BUILDINGS D & E

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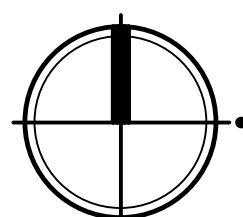
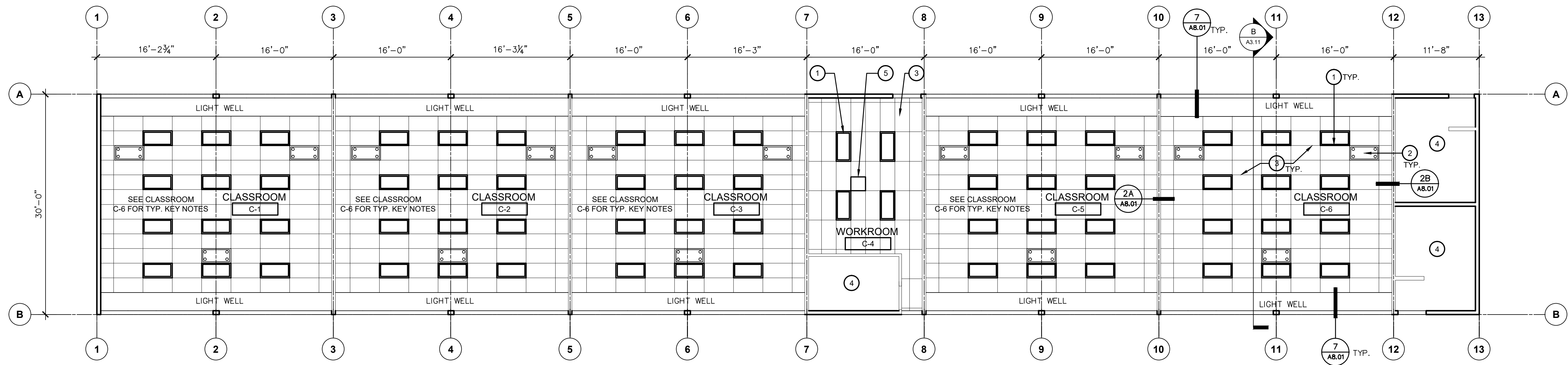


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A2.10, A2.20, A4.10,
A6.10, M2.12, S1.1,
E2.00, E2.10, E2.20,
E2.30, E3.00, E3.10



REFLECTED CEILING PLAN - BUILDING A
HVAC REPLACEMENT

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



REFLECTED CEILING PLAN - BUILDING C
HVAC REPLACEMENT

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

KEY NOTES #

1. INSTALL NEW LIGHT FIXTURES - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAIL 9/A8.01
2. REINSTALL SALVAGED IONIZERS PER DETAIL 11/A8.01 - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. INSTALL A NEW SUSPENDED ACOUSTICAL TILE CEILING - SEE DETAIL 1/A8.01
4. NO WORK IN THIS ROOM
5. NEW INDOOR UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAIL 11/M0.11
6. AIR SUPPLY DUCTWORK - SEE MECHANICAL SHEET M2.12 FOR ADDITIONAL INFORMATION.
7. RETURN AIR GRILL - SEE MECHANICAL DRAWINGS FOR SIZE, TYPE, ETC.
8. SUPPLY AIR GRILL - SEE MECHANICAL DRAWINGS FOR SIZE, TYPE, ETC.
9. NEW ACOUSTICAL TILE CEILING, - PER 1/A8.01.

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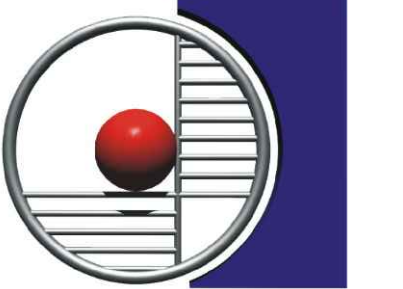
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BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
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3801 BRAVE AVENUE
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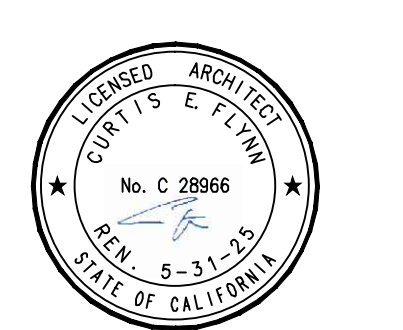
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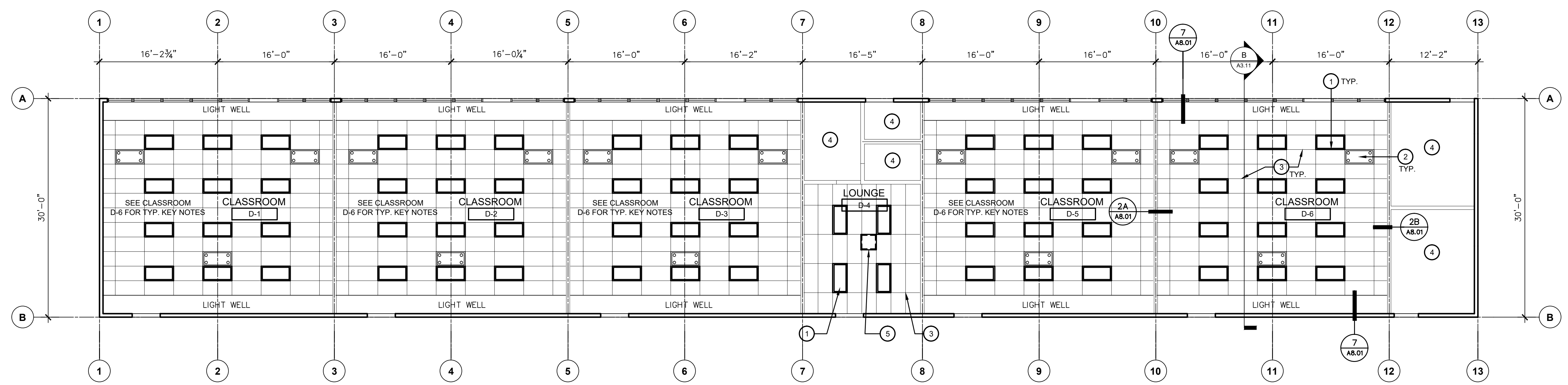
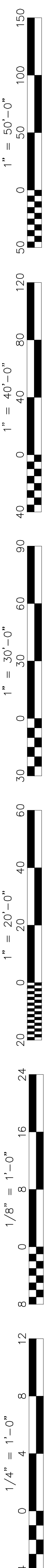
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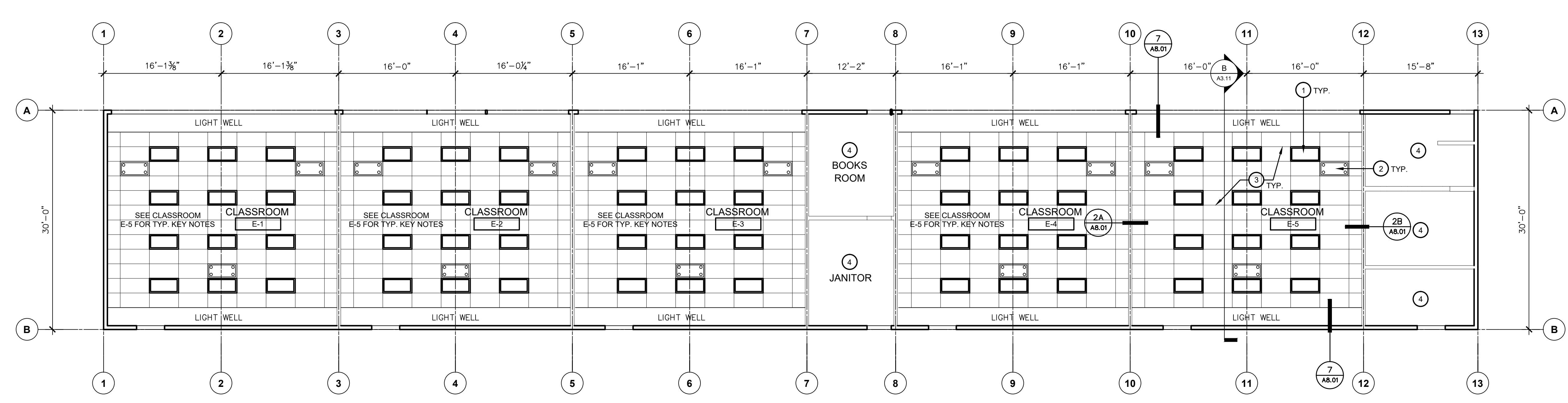
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REFLECTED CEILING PLAN - BUILDING D
HVAC REPLACEMENT
 SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLAN - BUILDING E
HVAC REPLACEMENT
 SCALE: 1/8" = 1'-0"

KEY NOTES #

1. INSTALL NEW LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAIL 9/A8.01
2. REINSTALL SALVAGED IONIZERS PER DETAIL 11/A8.01 - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
3. INSTALL A NEW ACOUSTICAL TILE CEILING - SEE DETAIL 1/A8.01
4. NO WORK IN THIS ROOM
5. NEW INDOOR UNIT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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CEILING SYSTEM GENERAL NOTES

DSA IR 25-2 Revised 03/18/22 Under CBC 2019
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC

1. CEILING SYSTEM GENERAL NOTES

- Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
- The ceiling grid system must be rated heavy duty as defined by ASTM C635.
- Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:
Manufacturer: ARMSTRONG WORLD INDUSTRIES
Product Name: Acoustical Panel Ceiling
Evaluation Report Type and Number: ESK 1308
Main Runner Part, Model, or Catalog Number: 7301
Cross Runner Part, Model, Catalog Number: ML 73 43
- Seismic Wall Clip: Manufacturer's Model: BERC 2 - SEE DETAILS 12 & 13/A8.01
- Ceiling panels shall not support any luminaires, air terminals or devices.
- For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 1/4" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 1/4" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

- Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
- Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (ANSI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.
- Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

- Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
- Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit, and equipment.
- Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
- Slack safety wires shall be considered hanger wires for installation and testing requirements.
- Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. FASTENERS AND WELDING

- Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
- Expansion anchors shall be: HILTI KWIK BOLT TZ-2 (ICC-ES ESR 4266)
- Power-Actuated Fasteners shall be: HILTI X-U 42 P8 / ICC-ES ESR-2269.
- If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
- Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
- Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
- Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

- All field testing must be performed in the presence of the project inspector.
- Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
- Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

6. LUMINAIRES

- All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
- Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14-gauge. Rotational spring catches do not comply. A #12-gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
- Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12-gauge slack safety wire connected from the fixture housing to the structure above.
- Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12-gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12-gauge slack safety wire at each corner.
- All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12-gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12-gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. SERVICES WITHIN THE CEILING

- All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
- Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12-gauge slack safety wire attached from the terminal or service to the structure above.
- Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12-gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
- Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12-gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING

- All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12-gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P: (559) 436-0881 F: (559) 436-0887
E: design@somam.com
integrateddesigns.com

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Stamp:

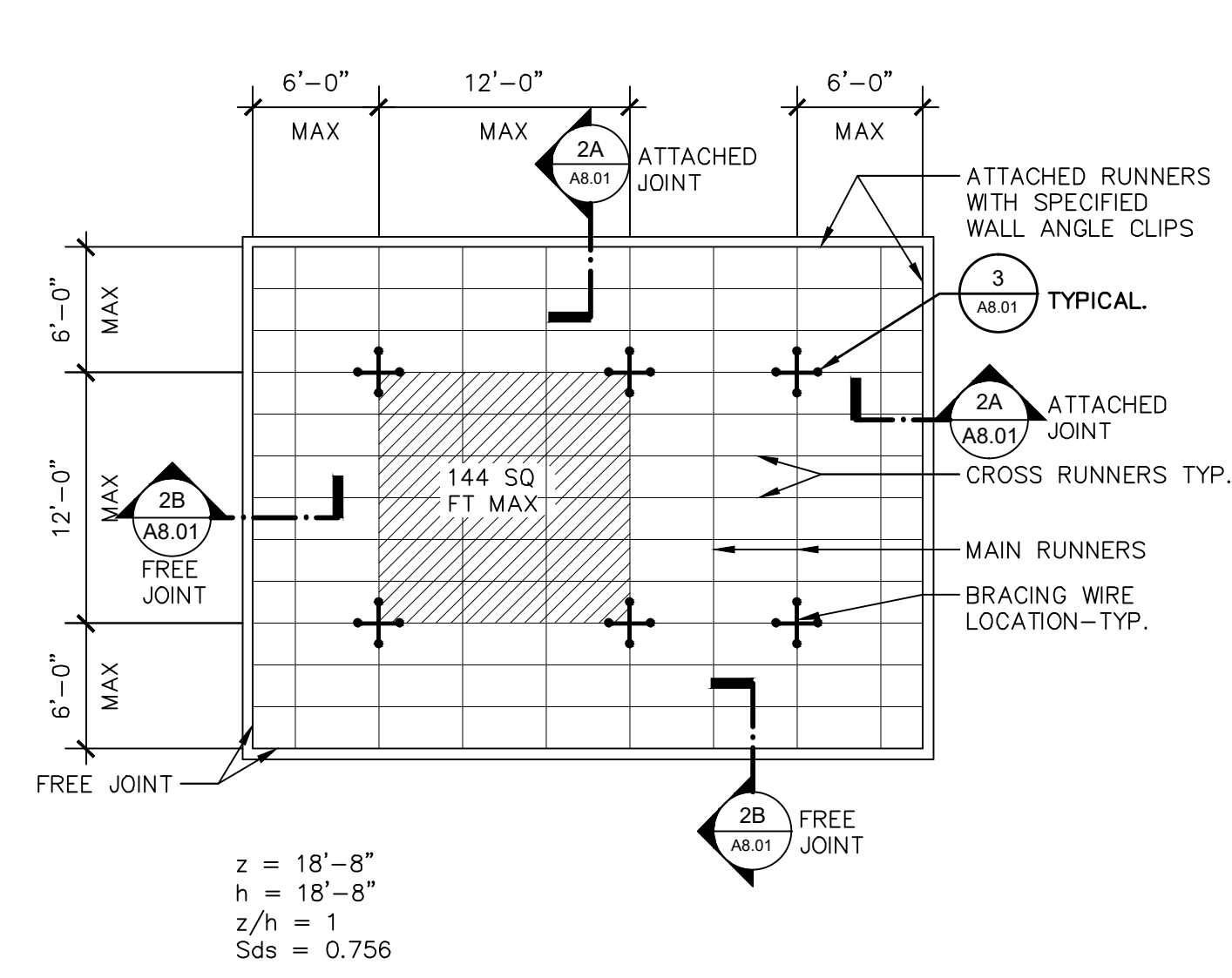
Travis E. Fenn
No. C 29866
State of California

Sheet Title:

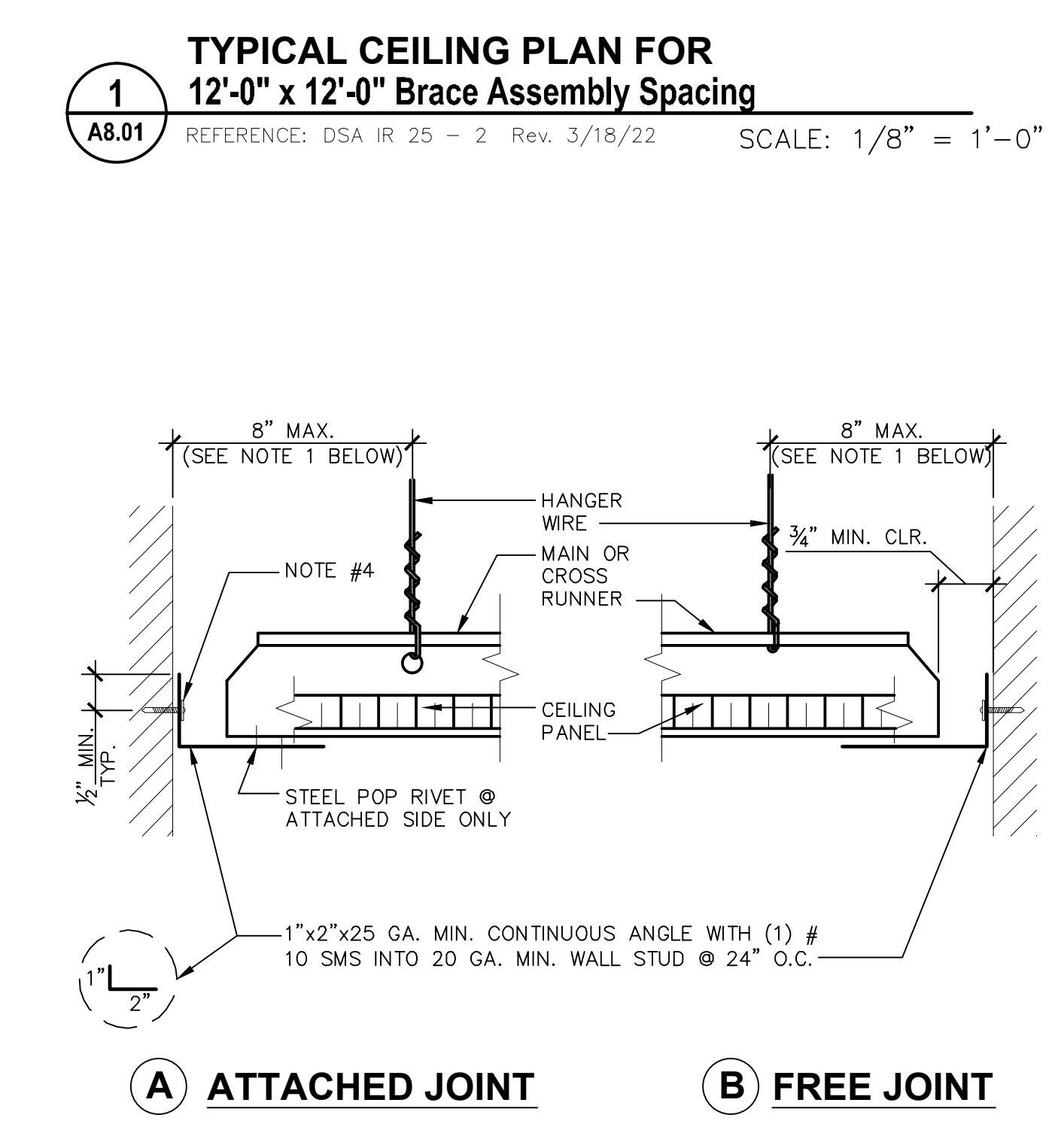
INTERIOR DETAILS 1

Job No.: **5524**

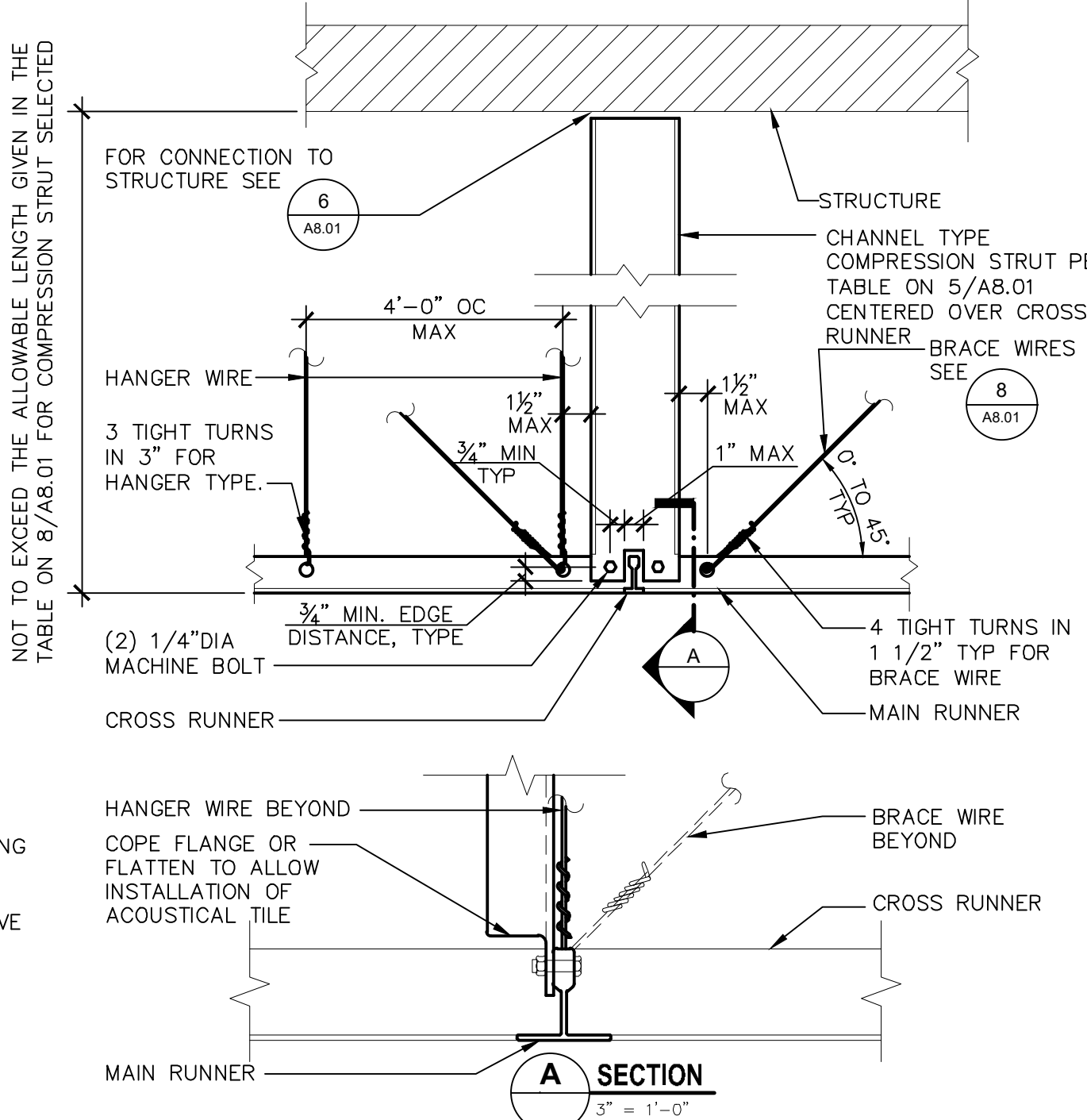
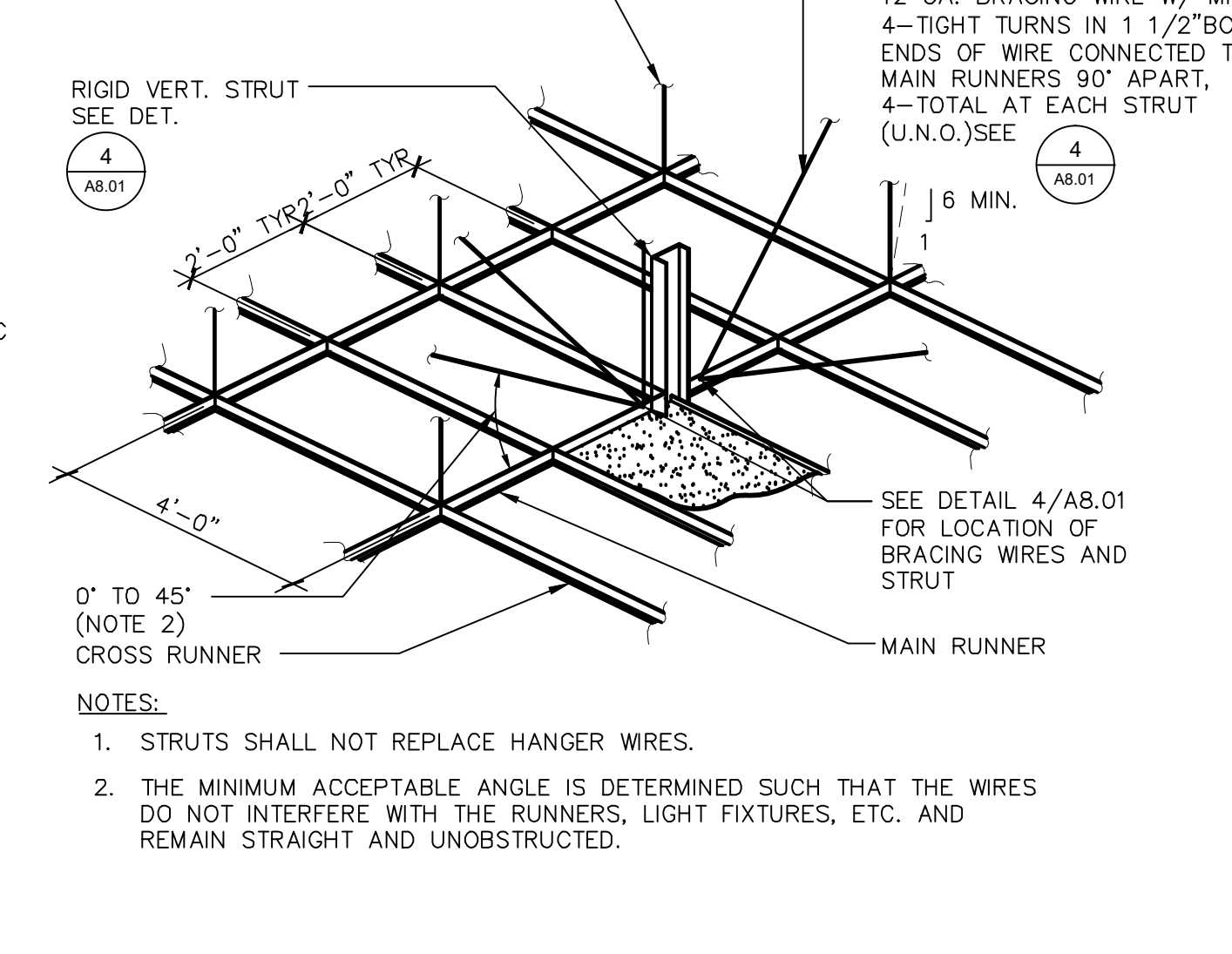
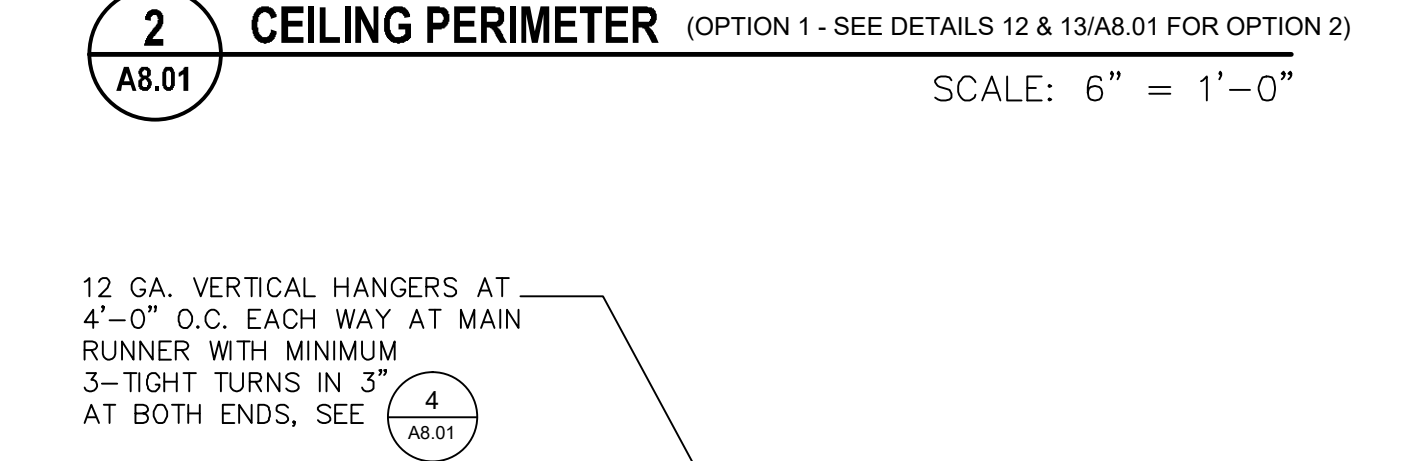
Sheet No.: **A8.01**
Release DSA SUBMITTAL 11/28/22



NOTE: BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.
z = 18'-8"
h = 18'-8"
z/h = 1
Sds = 0.756



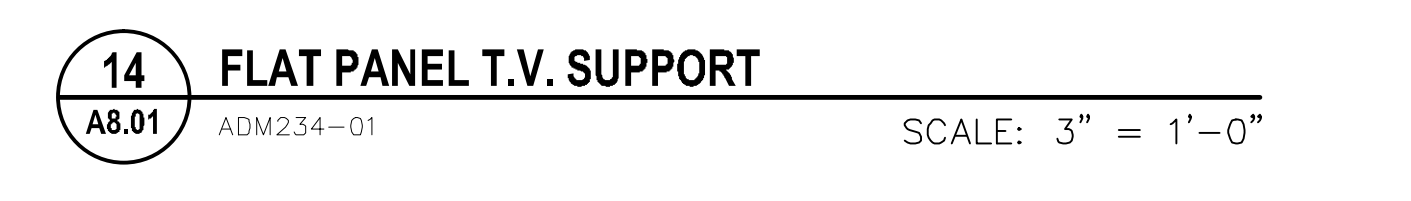
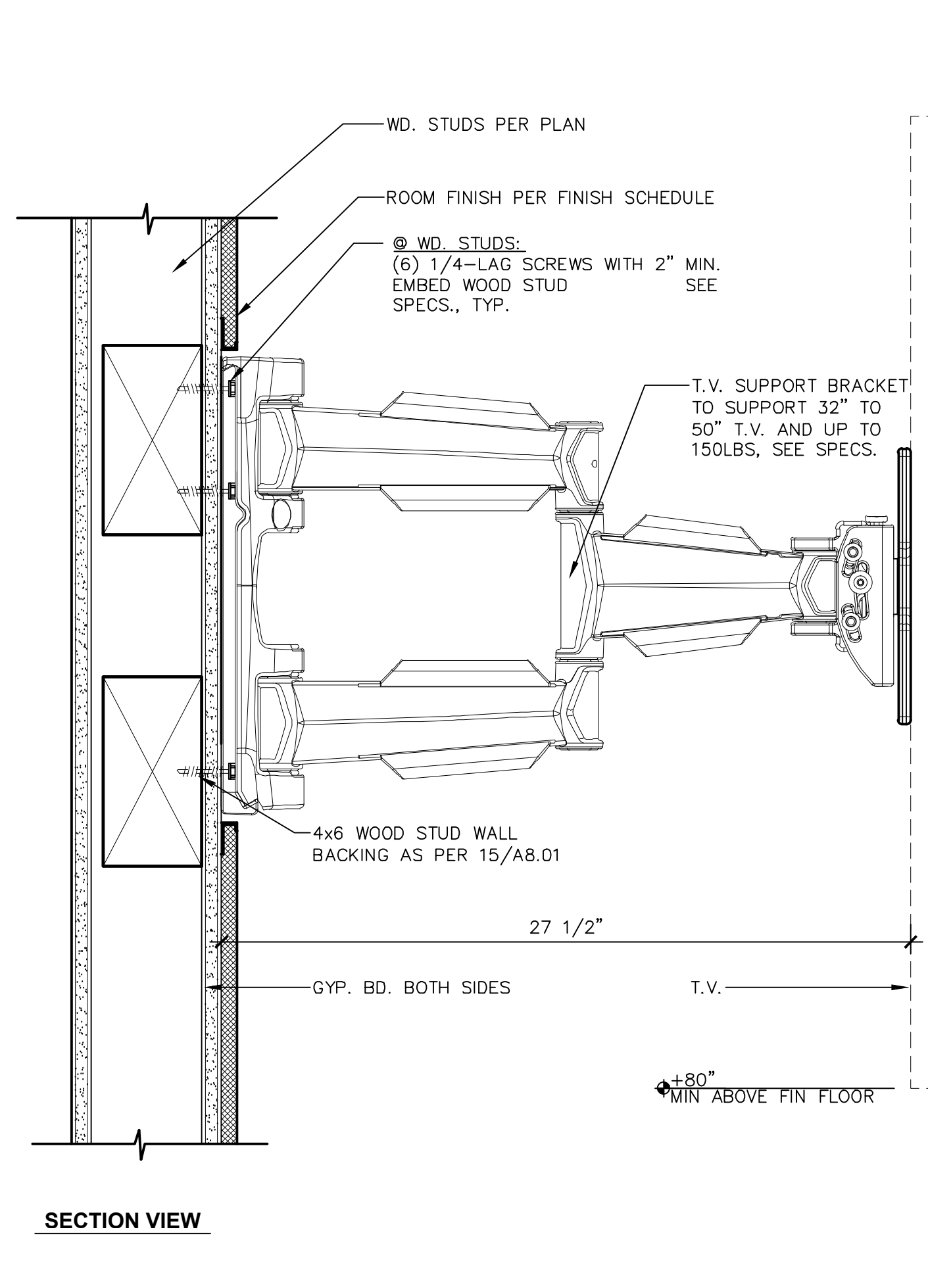
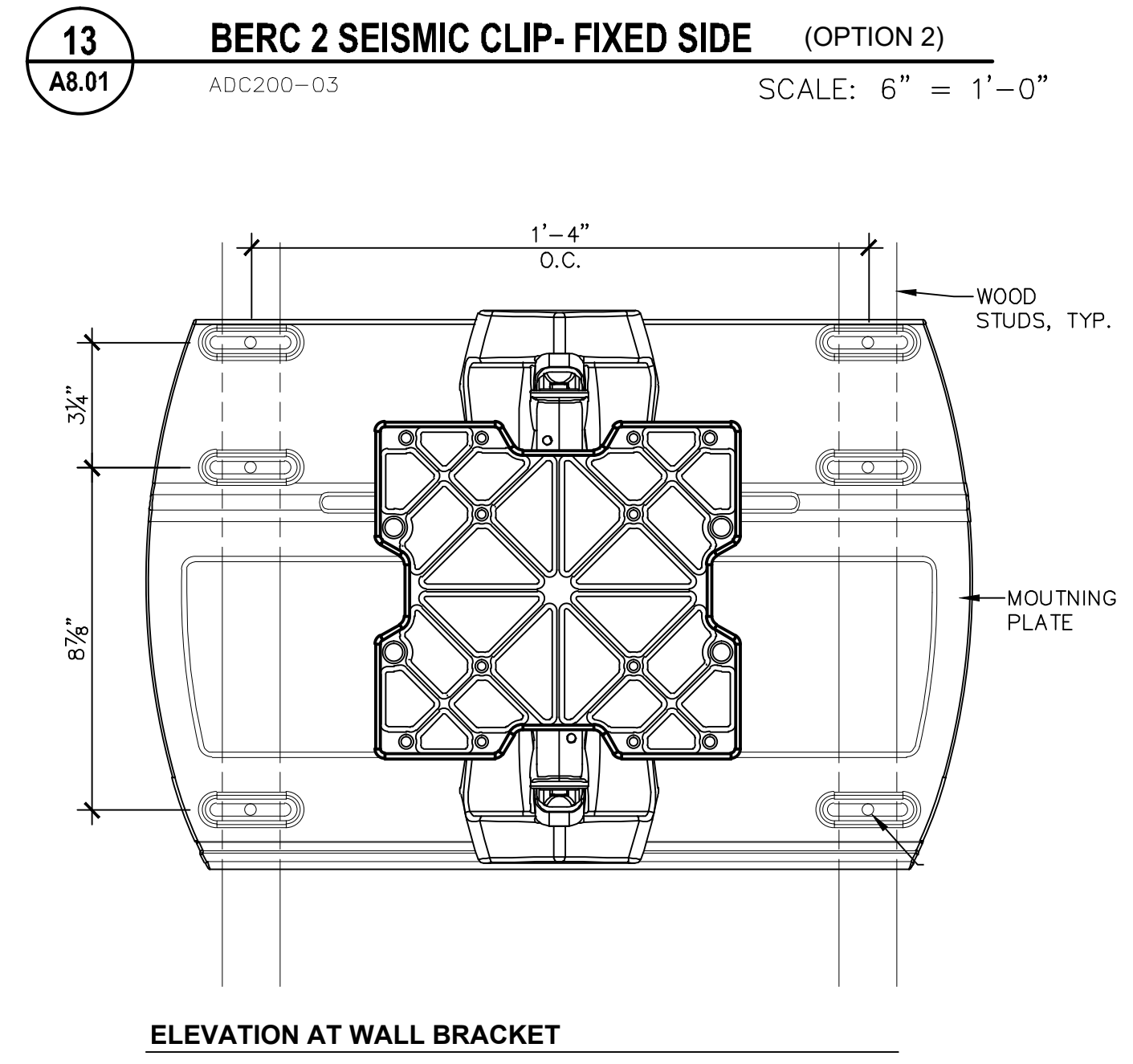
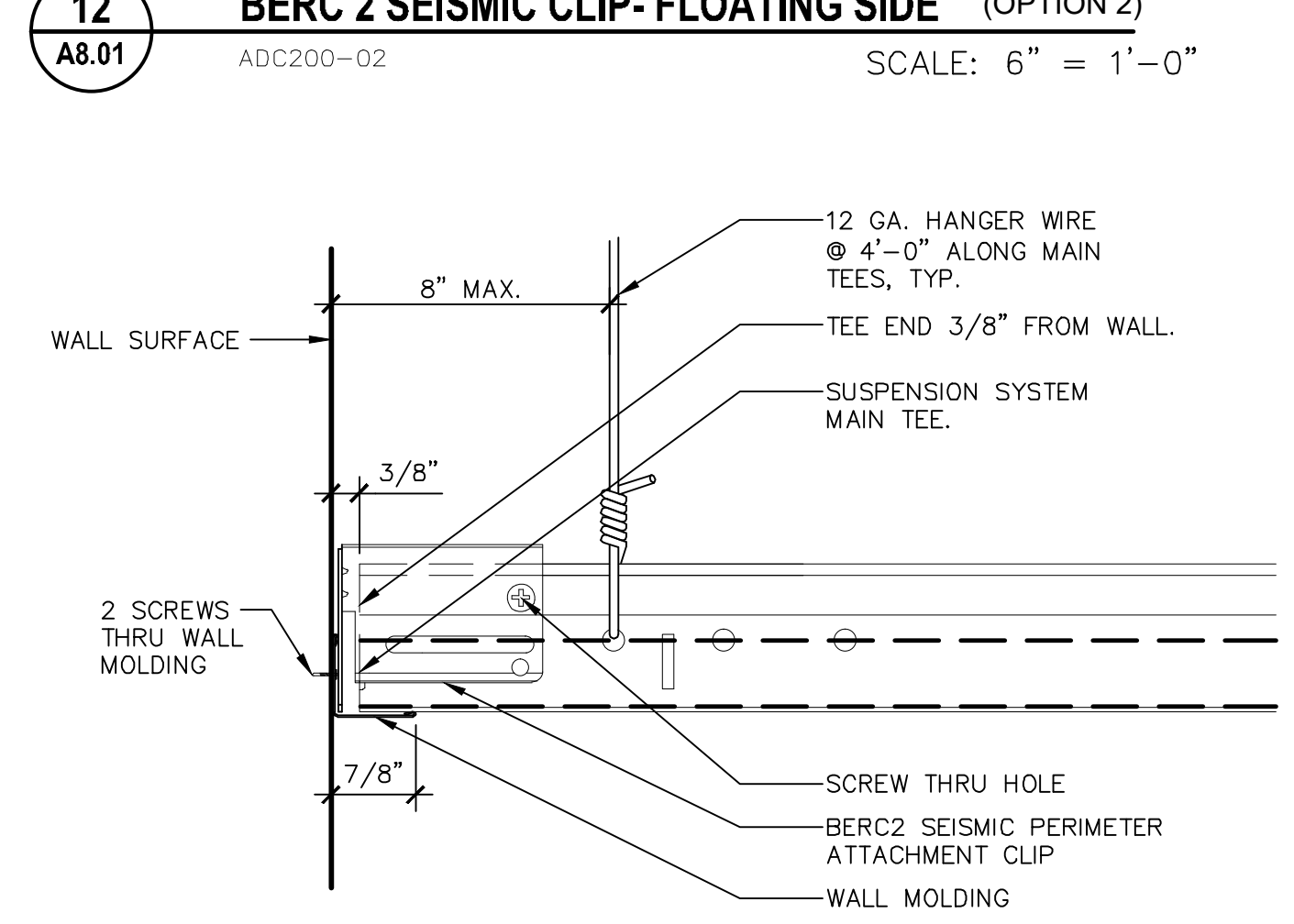
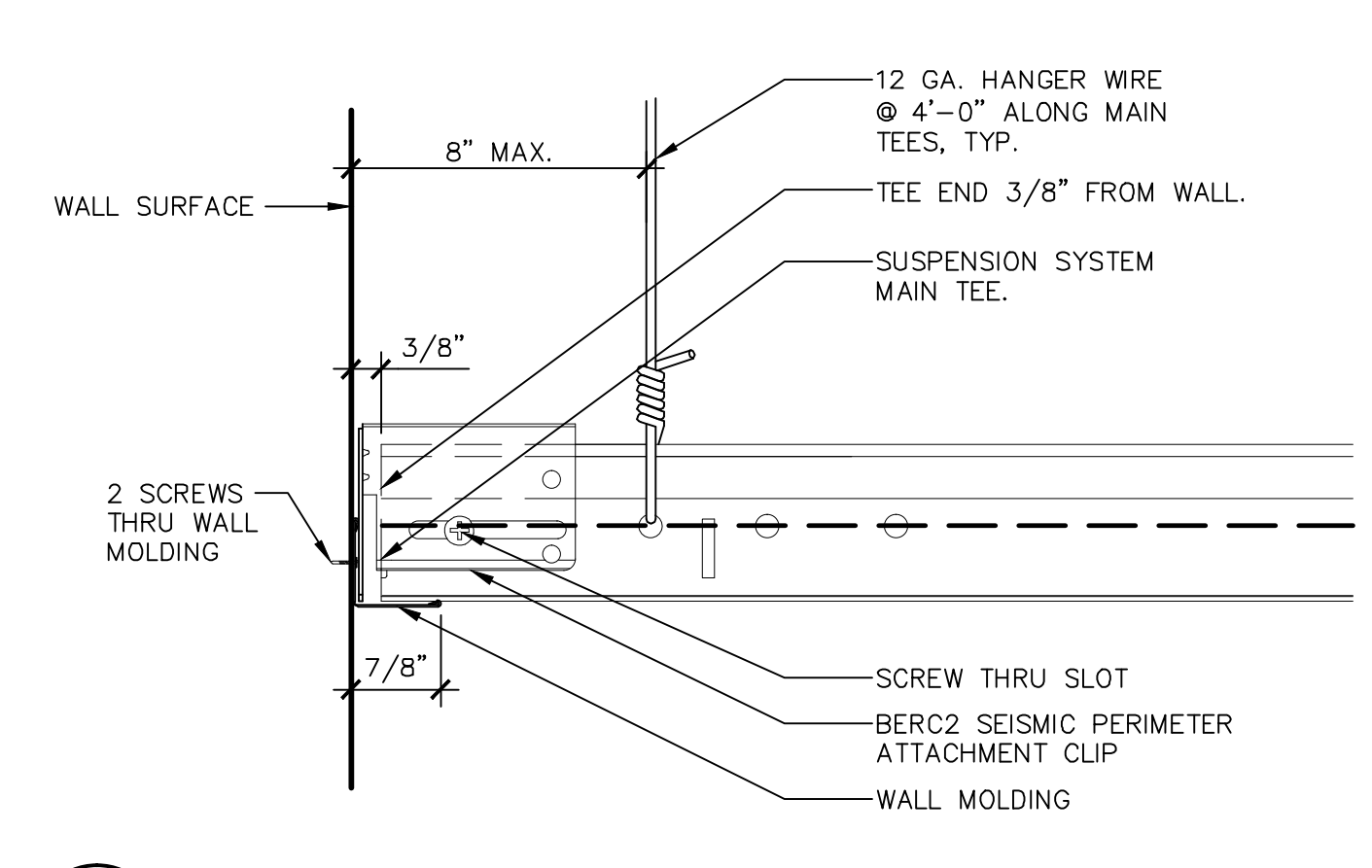
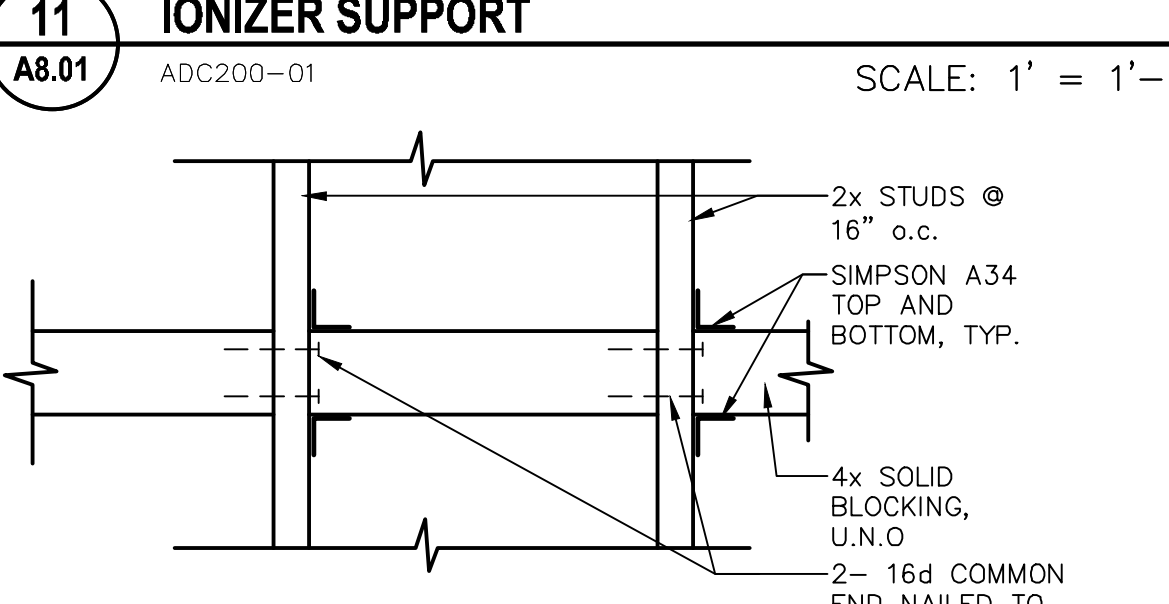
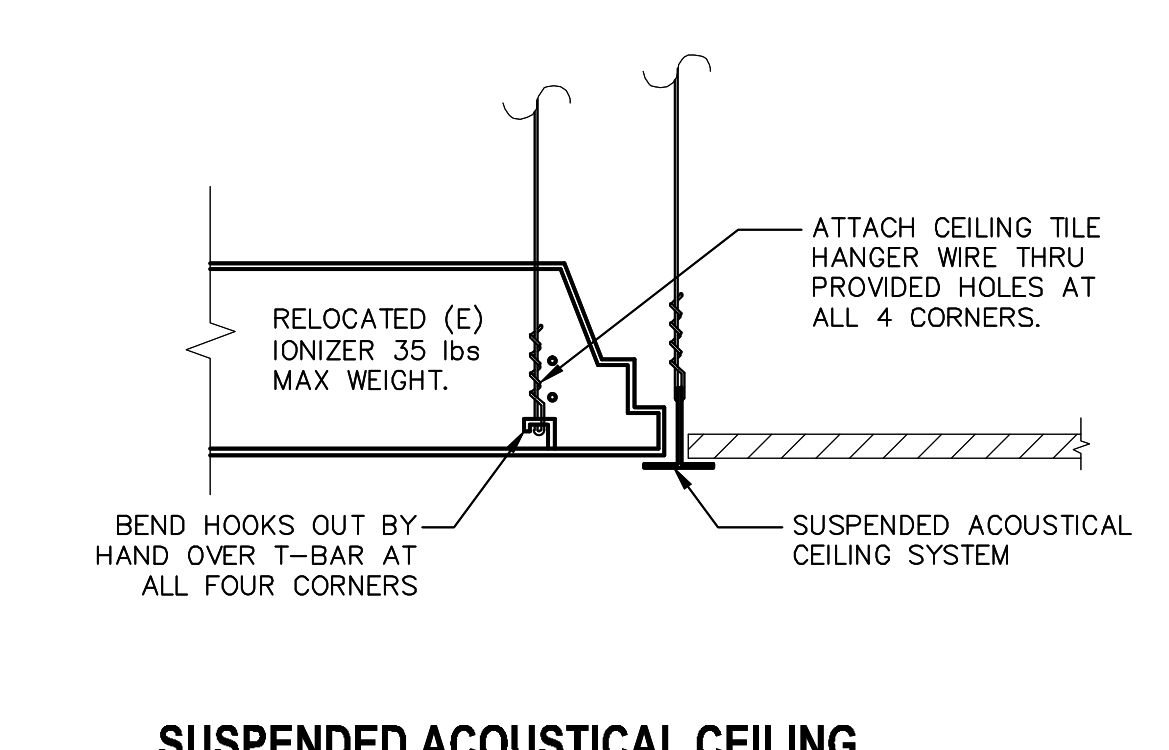
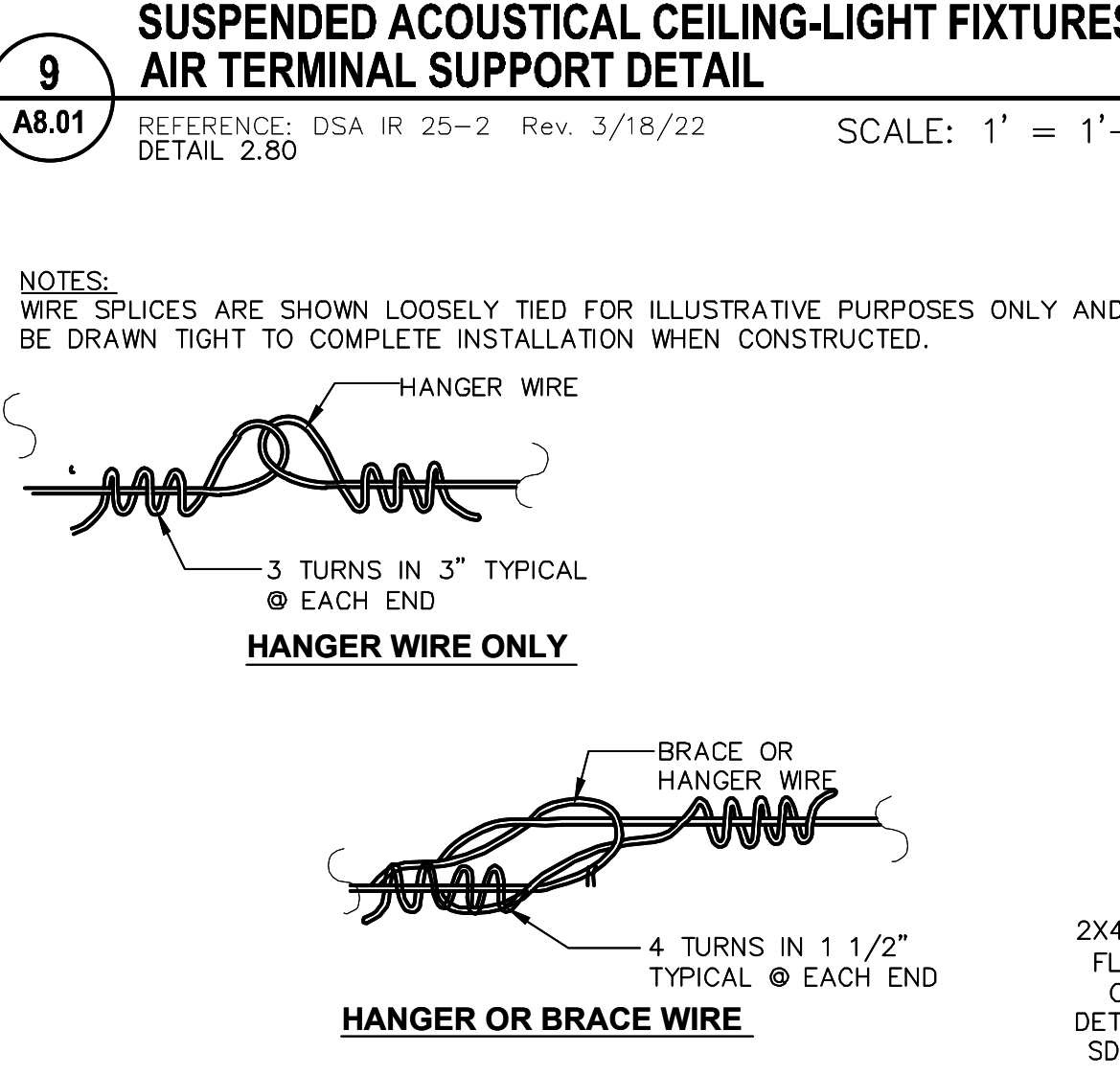
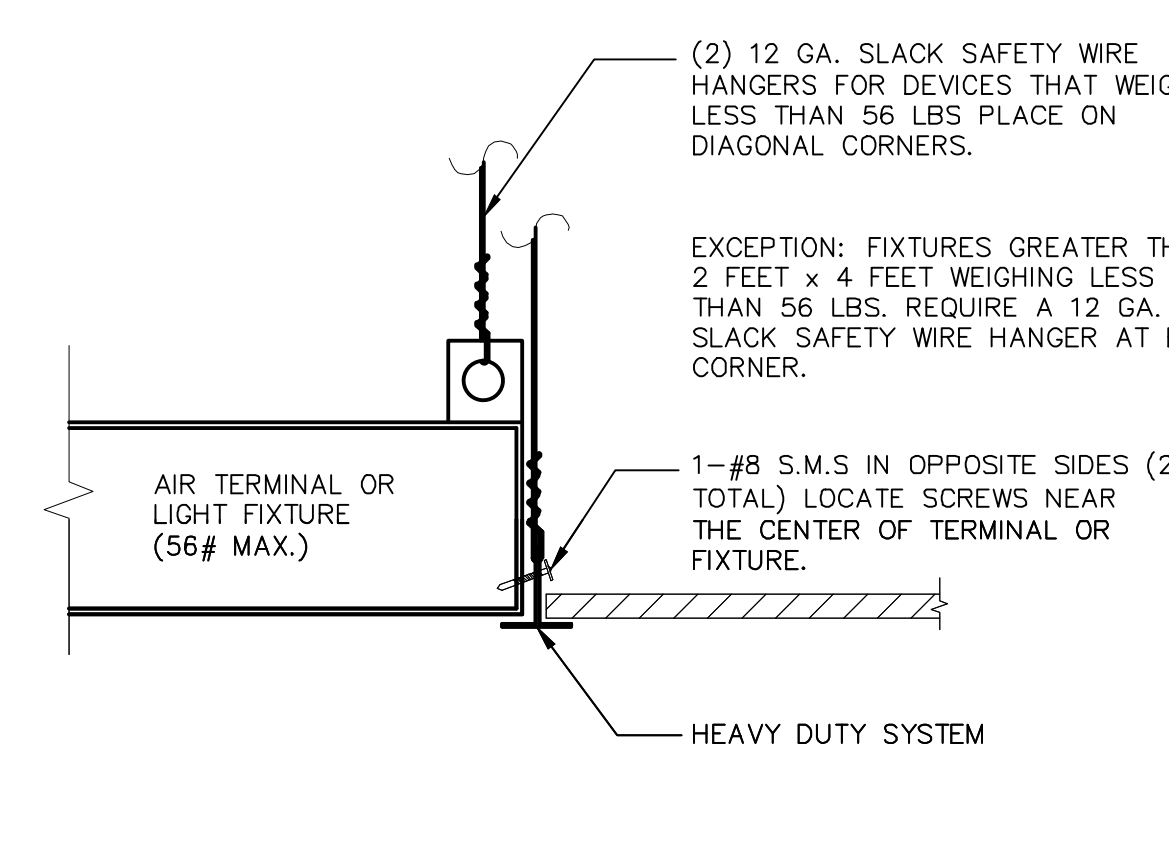
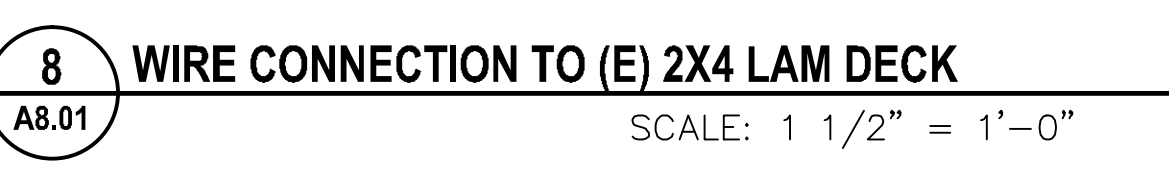
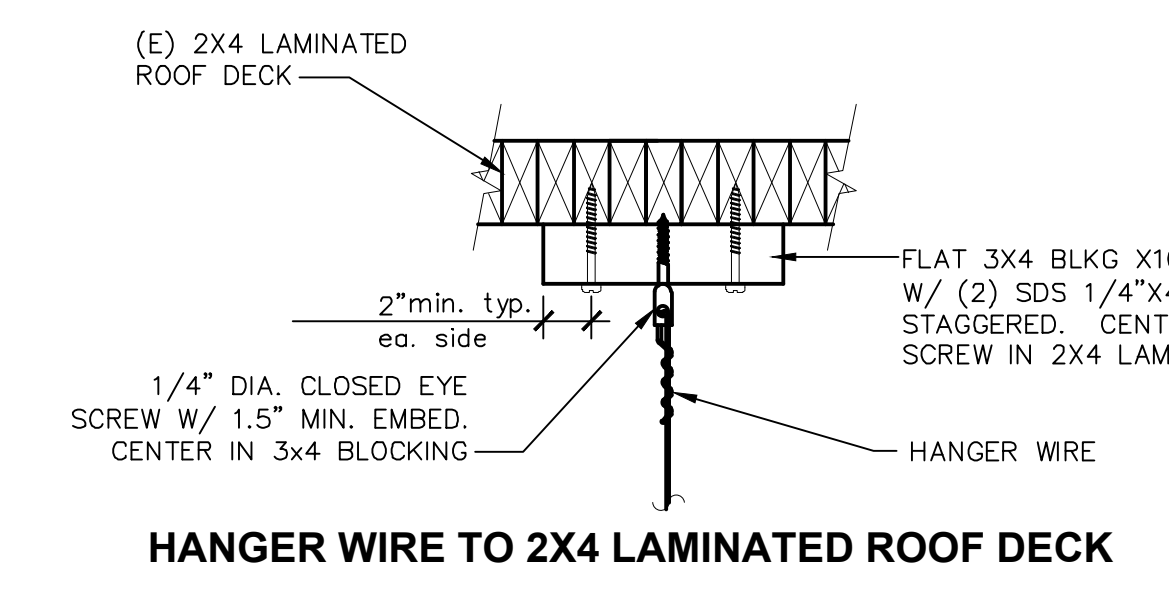
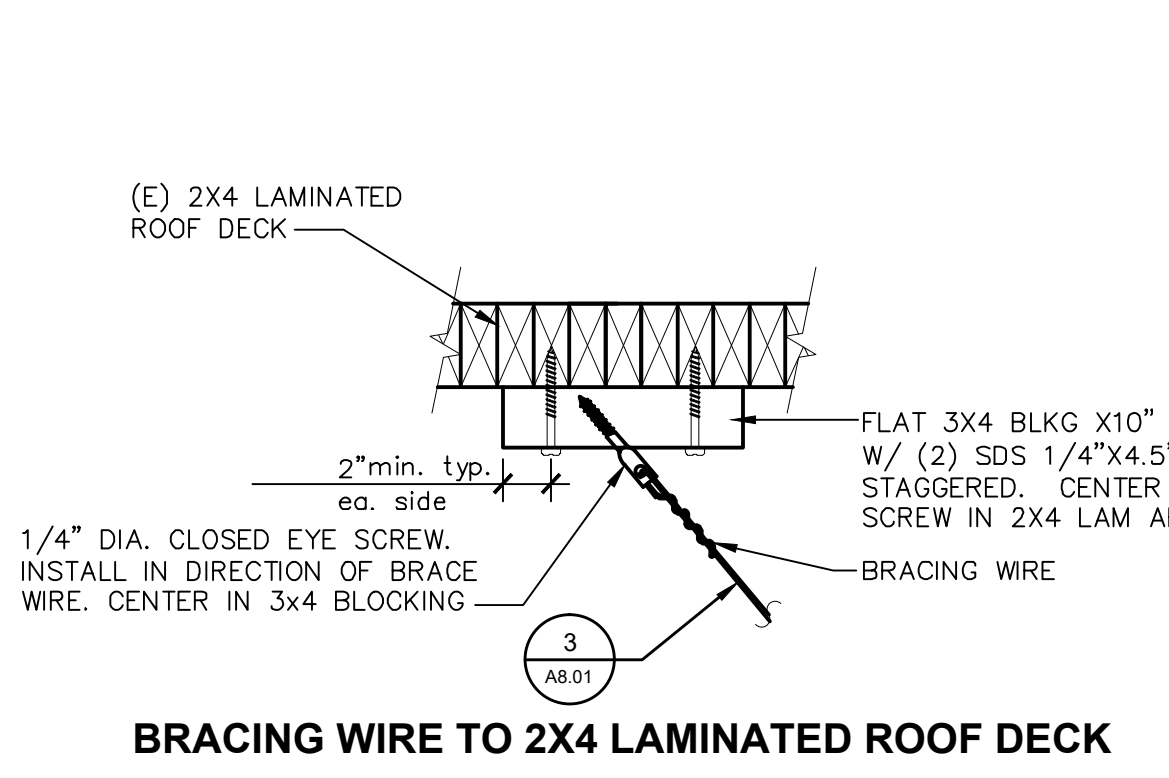
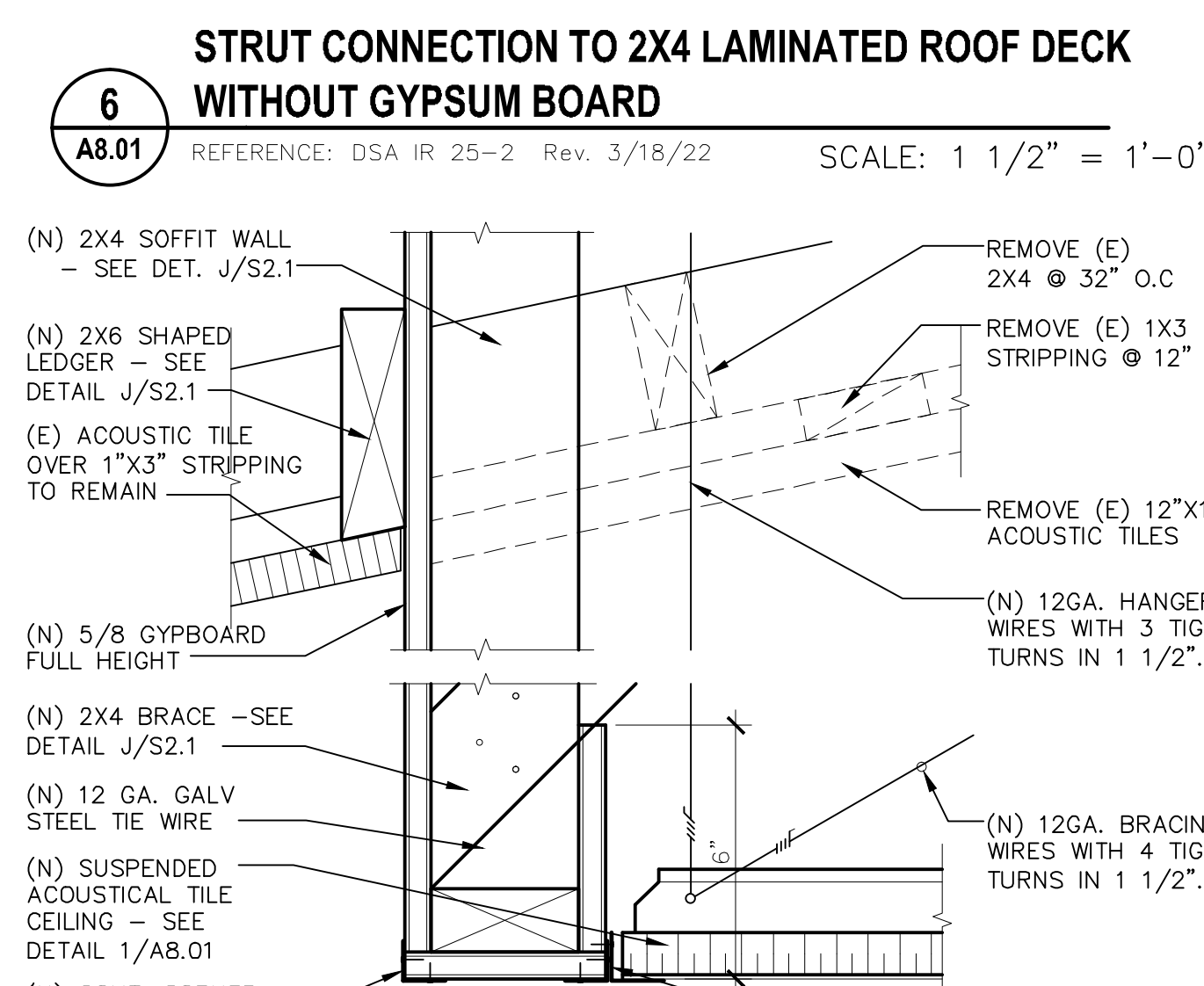
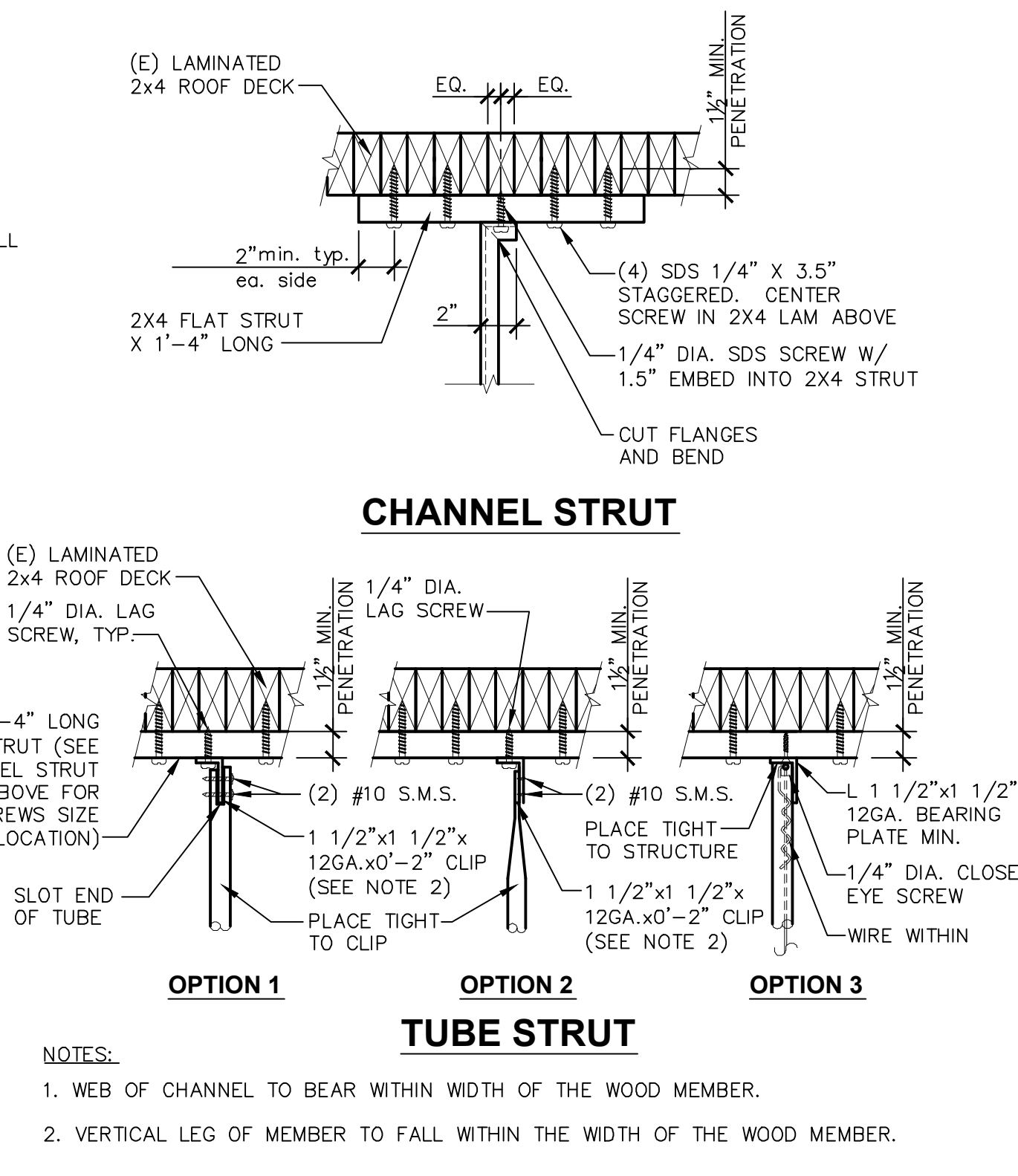
- NOTES:
- PROVIDE #12 GAGE HANGER WIRES AT THE END OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
 - NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
 - STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
 - (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.

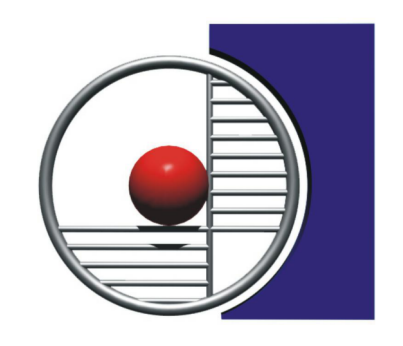


COMPRESSION STRUT TABLE

EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	5'-10"
3/4" DIAMETER EMT (0.048" WALL THICKNESS)	7'-8"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"





ROOF FRAMING NOTES:

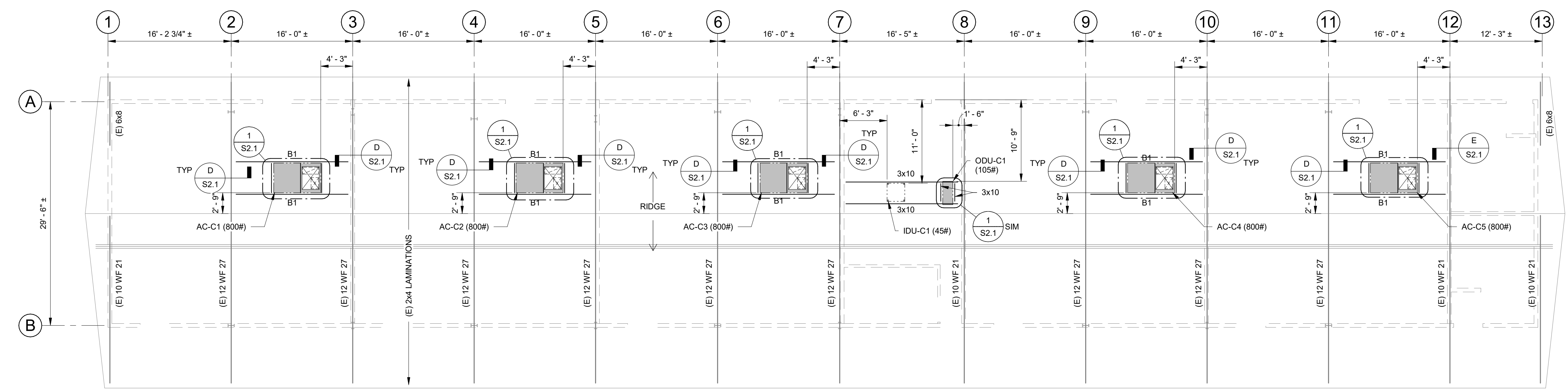
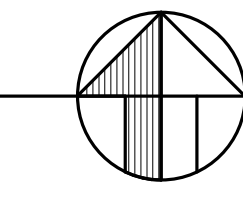
1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.1
2. SEE SHEET S2.1 FOR TYPICAL DETAILS.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIZES, CONDITIONS, MEMBER ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND/OR ORDERING MATERIALS. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
5. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O.
6. THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
7. MOISTURE CONTENT OF ALL NEW BLKG SHALL MATCH OR BE LOWER THAN THE MOISTURE CONTENT OF THE EXISTING JOISTS.

- SIM 1/SX.X
DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
- INDICATES (N) FRAMED OPENING.
- INDICATES ROOF SLOPE DIRECTION, S.A.D.
- INDICATES NEW MECHANICAL UNITS ABOVE ROOF. SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE.
600# INDICATES MAXIMUM UNIT WEIGHT.
- INDICATES NEW MECHANICAL UNITS BELOW ROOF. SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE.
600# INDICATES MAXIMUM UNIT WEIGHT.
- 'B1' INDICATES 3.5"x9.25" LVL BEAM



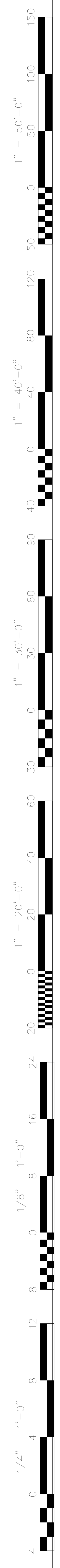
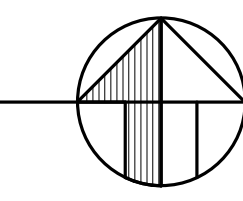
ROOF FRAMING PLAN - BLDG A

1/8" = 1'-0"



ROOF FRAMING PLAN - BLDG C

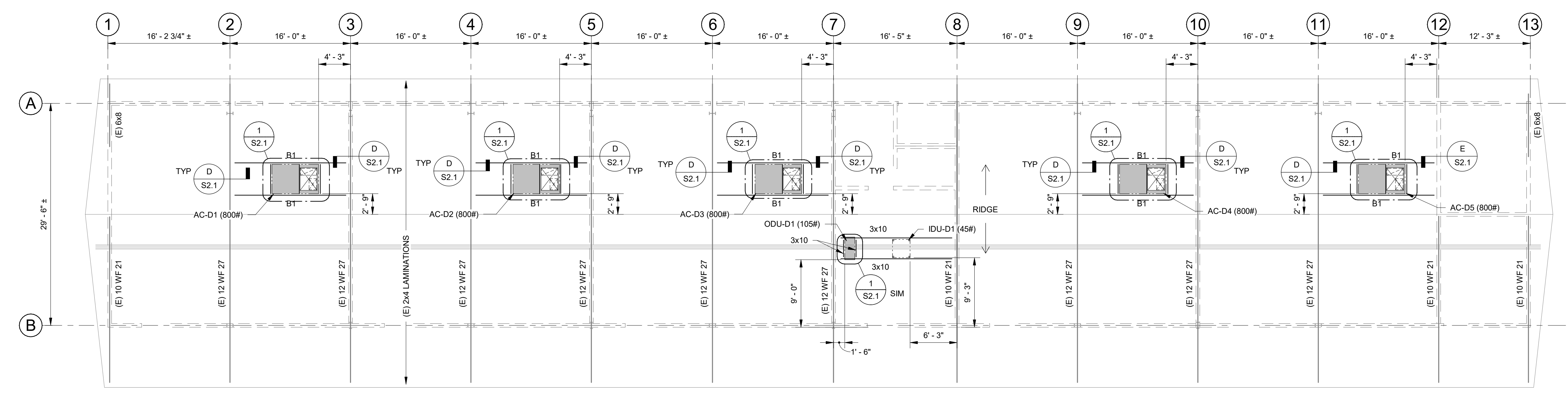
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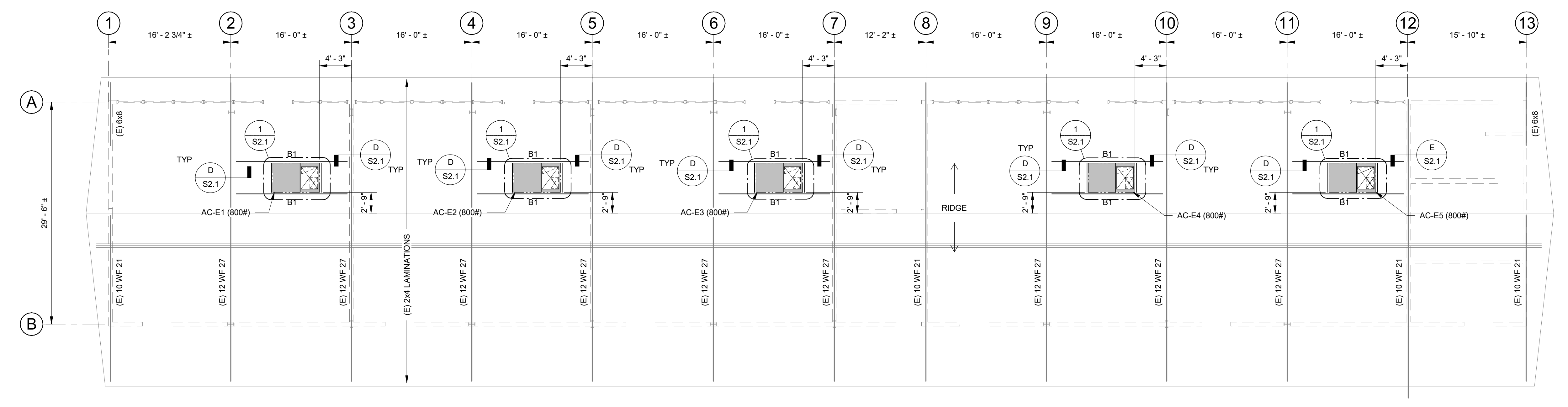
ROOF FRAMING NOTES:

- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.1
- SEE SHEET S2.1 FOR TYPICAL DETAILS.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIZES, CONDITIONS, MEMBER ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND/OR ORDERING MATERIALS. ANY CONDITIONS ENCOUNTERED IN THE FIELD THAT CONFLICT WITH THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O.
- THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- MOISTURE CONTENT OF ALL NEW BLKG SHALL MATCH OR BE LOWER THAN THE MOISTURE CONTENT OF THE EXISTING JOISTS.

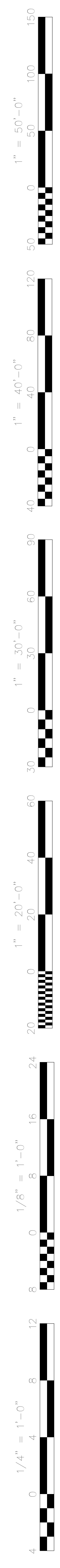
- SIM DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
- INDICATES (N) FRAMED OPENING.
- INDICATES ROOF SLOPE DIRECTION, S.A.D.
- INDICATES NEW MECHANICAL UNITS ABOVE ROOF; SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE.
600# INDICATES MAXIMUM UNIT WEIGHT.
- INDICATES NEW MECHANICAL UNITS BELOW ROOF; SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE.
600# INDICATES MAXIMUM UNIT WEIGHT.
- 'B1' INDICATES 3.5"x9.25" LVL BEAM

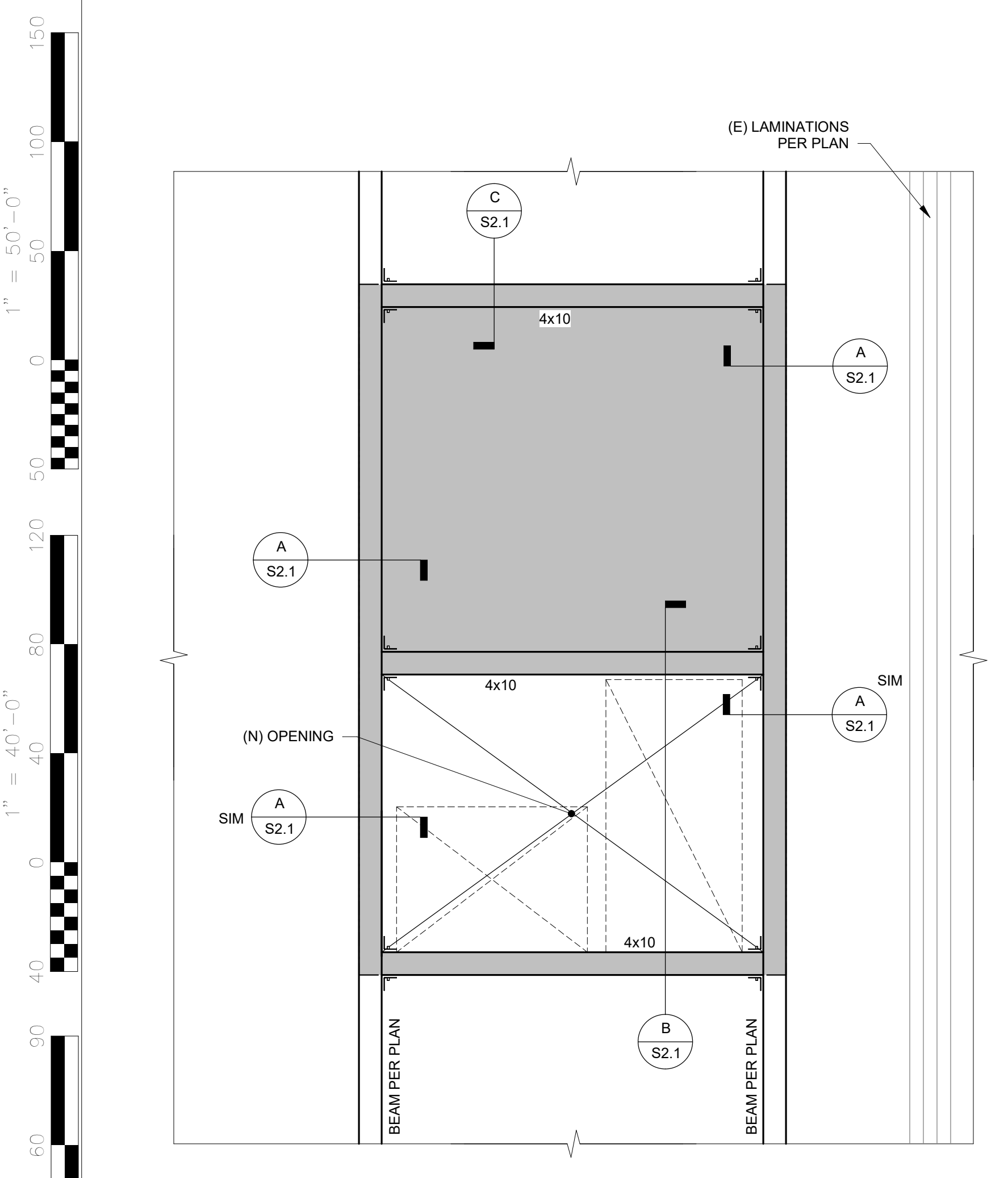


ROOF FRAMING PLAN - BLDG D
 1/8" = 1'-0"



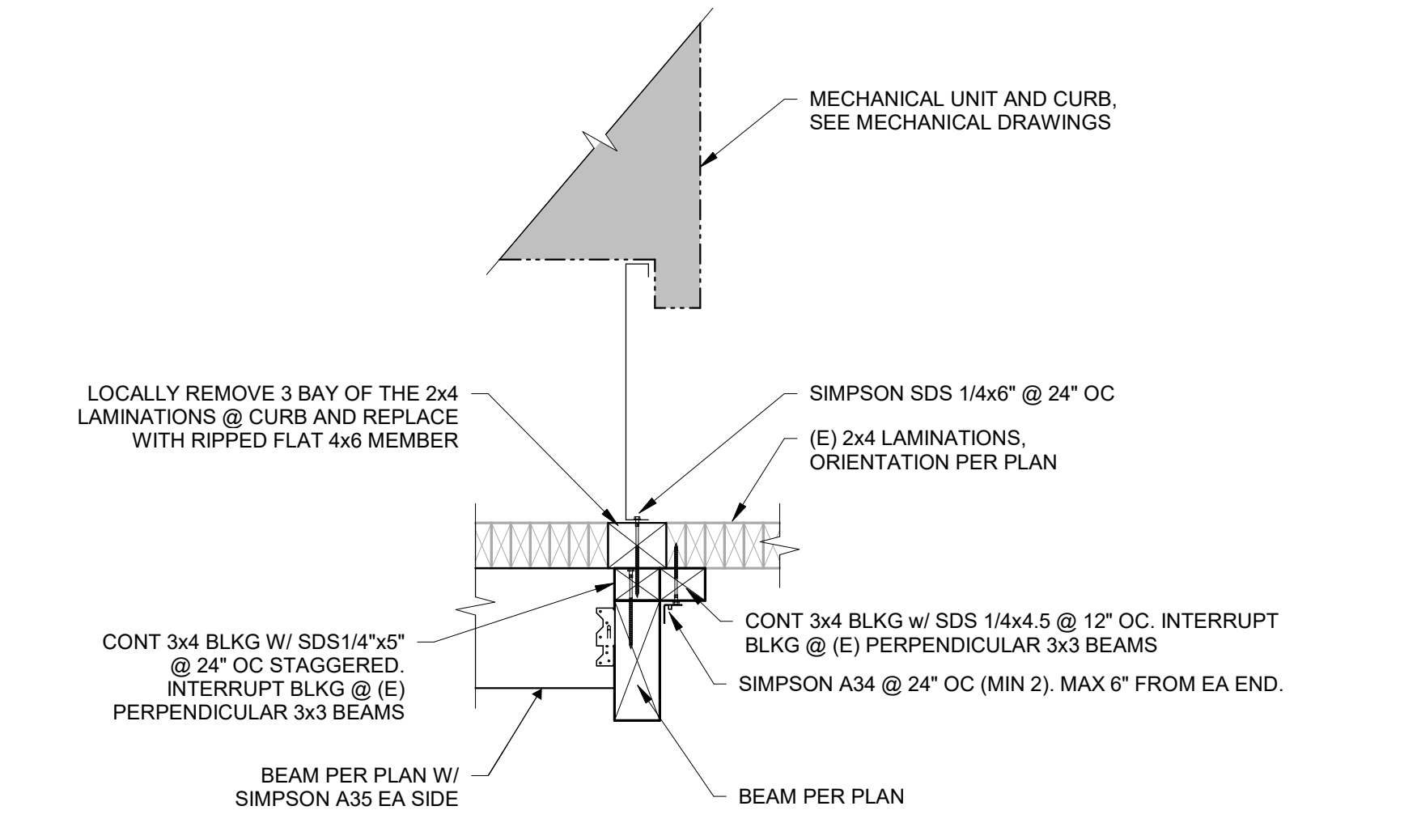
ROOF FRAMING PLAN - BLDG E
 1/8" = 1'-0"



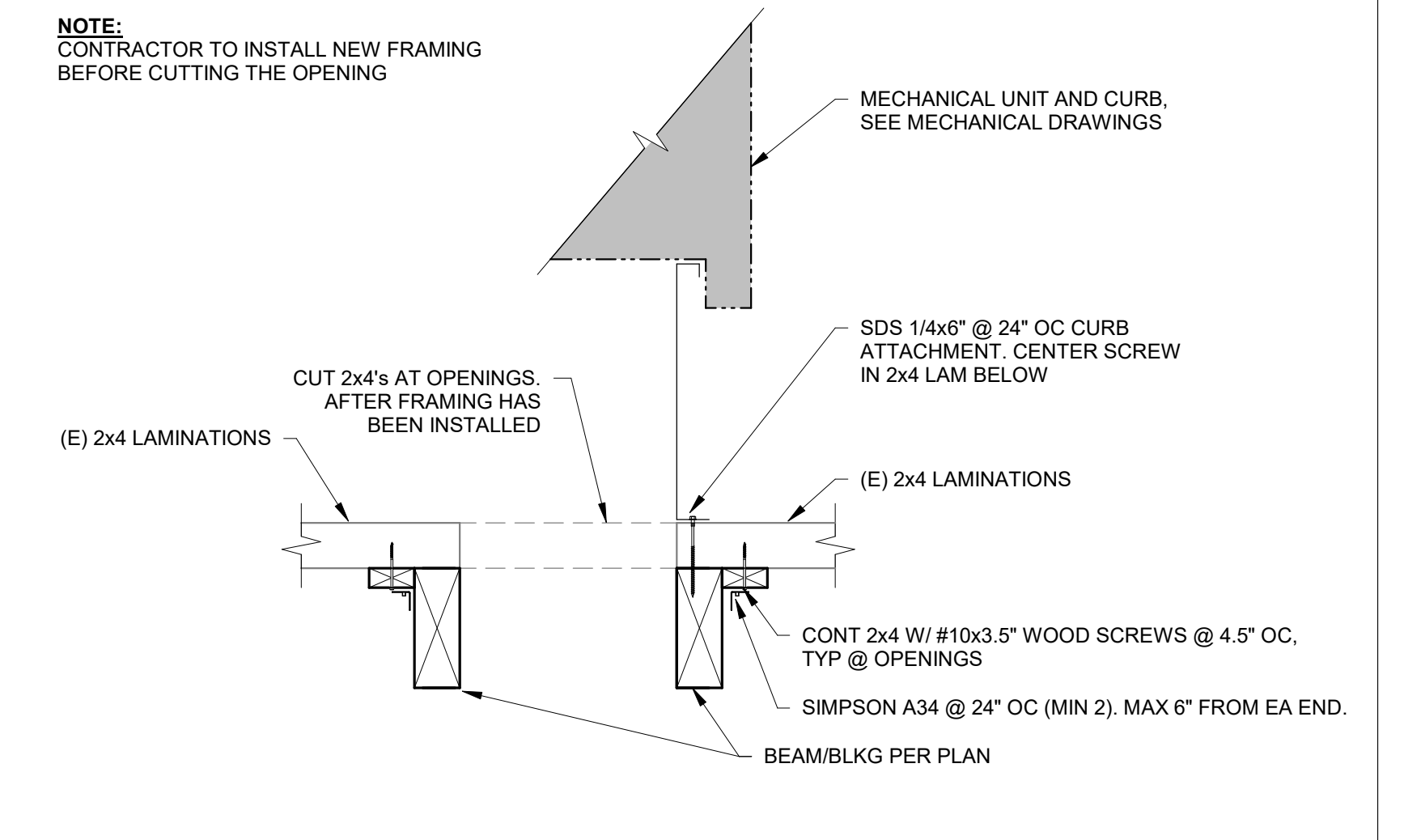


NOTES:
 1. MECH UNIT SIZE & ORIENTATION ARE ONLY SHOWN GRAPHICALLY. SEE PLAN & MECH DRAWINGS FOR SPECIFIC INFORMATION.
 2. INSTALL SIMPSON A35 (BOTH SIDES) AT ALL (N) JOISTS/BLKG EA END, UO.

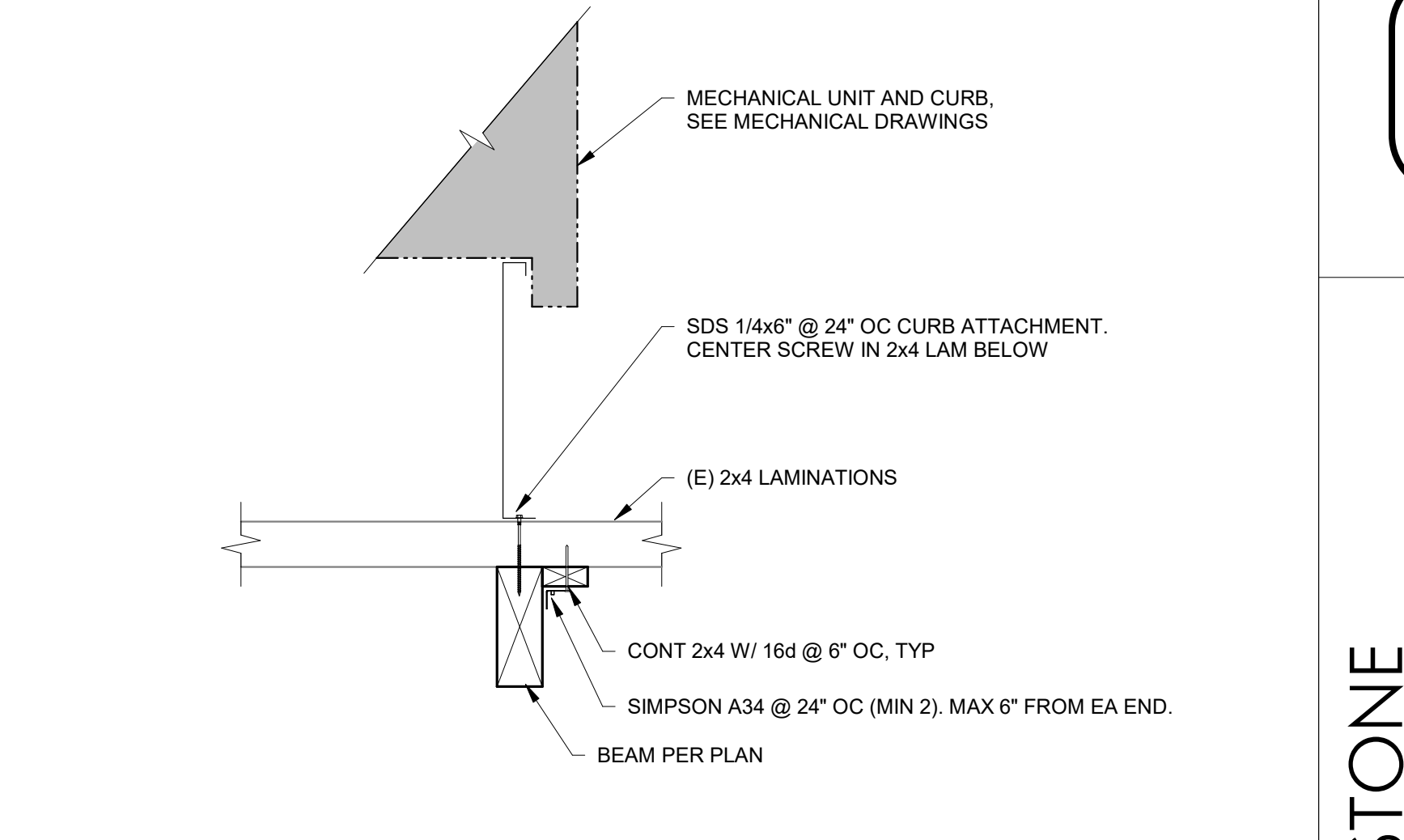
TYPICAL MECHANICAL FRAMING DETAIL
 1
 S2.1
 1" = 1'-0"



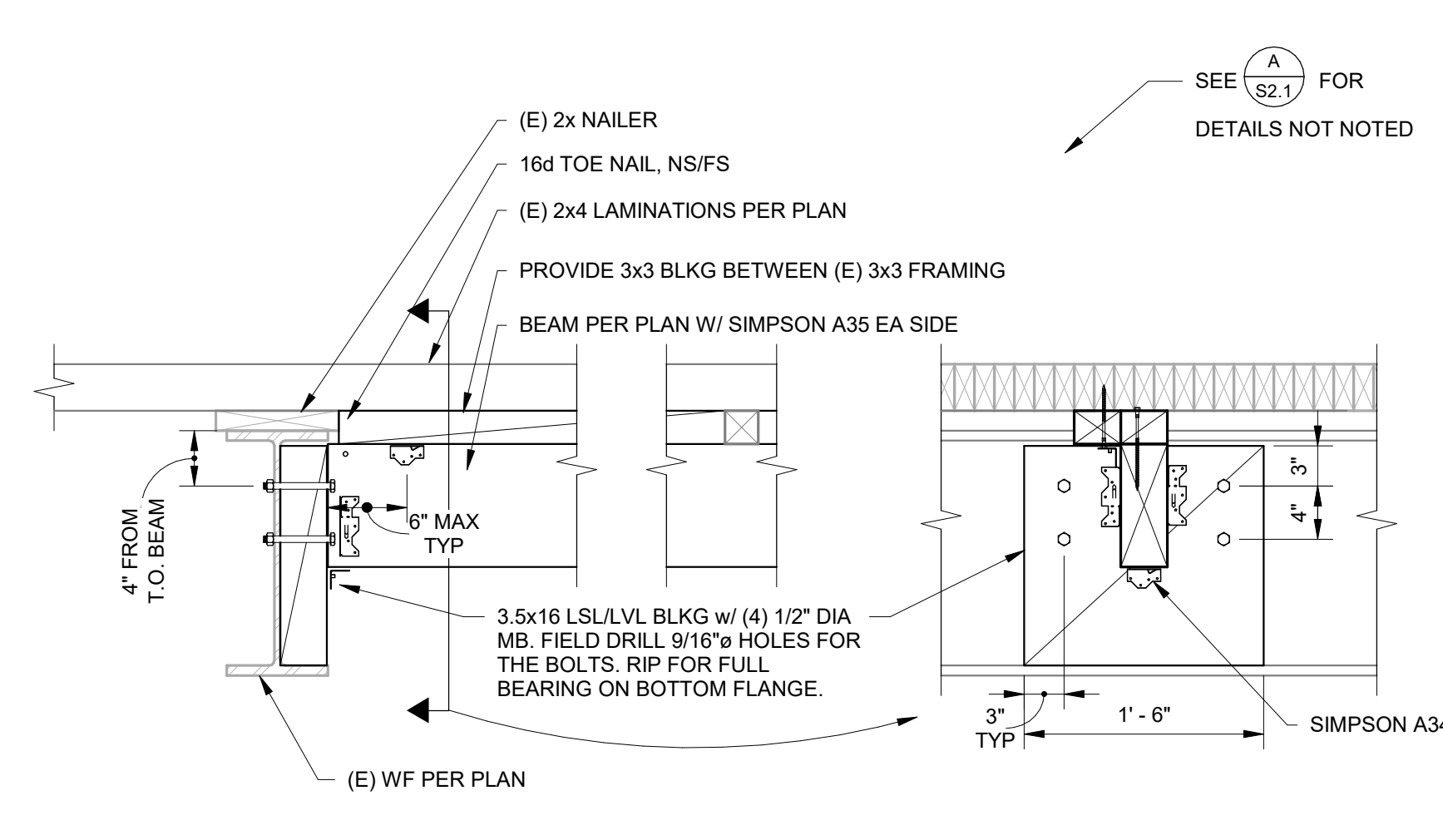
SECTION A
 S2.1
 1" = 1'-0"



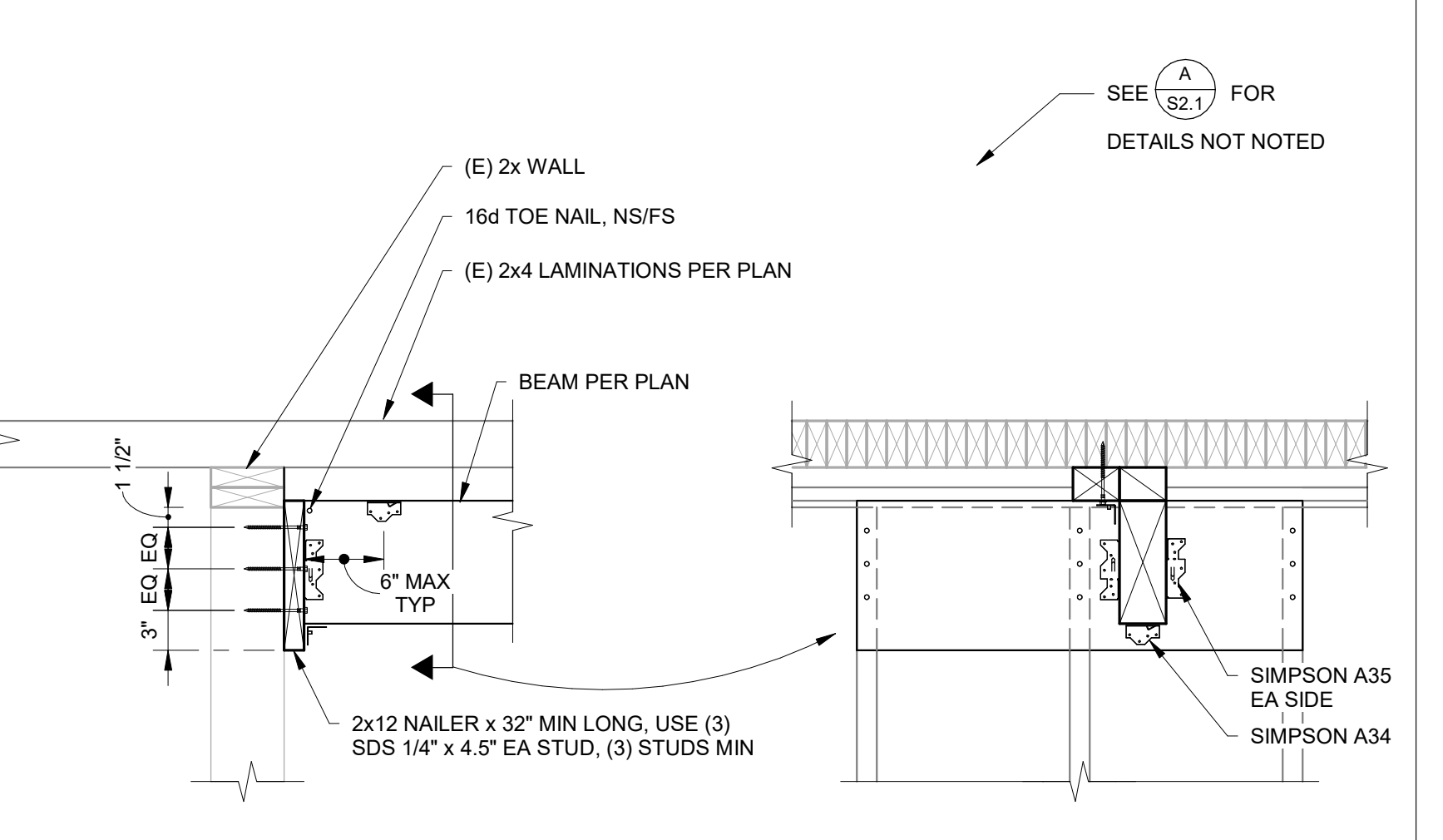
SECTION B
 S2.1
 1" = 1'-0"



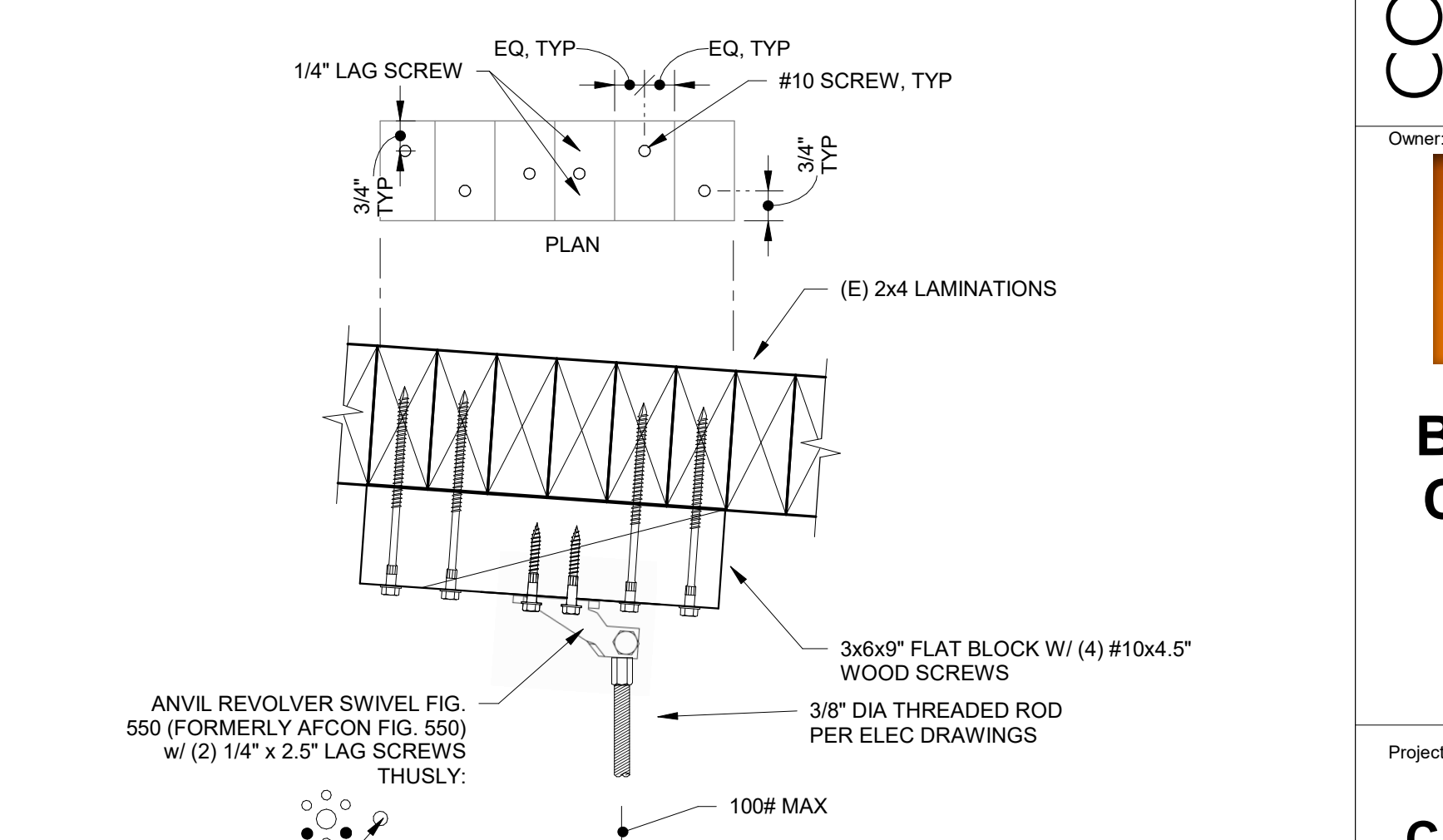
SECTION C
 S2.1
 1" = 1'-0"



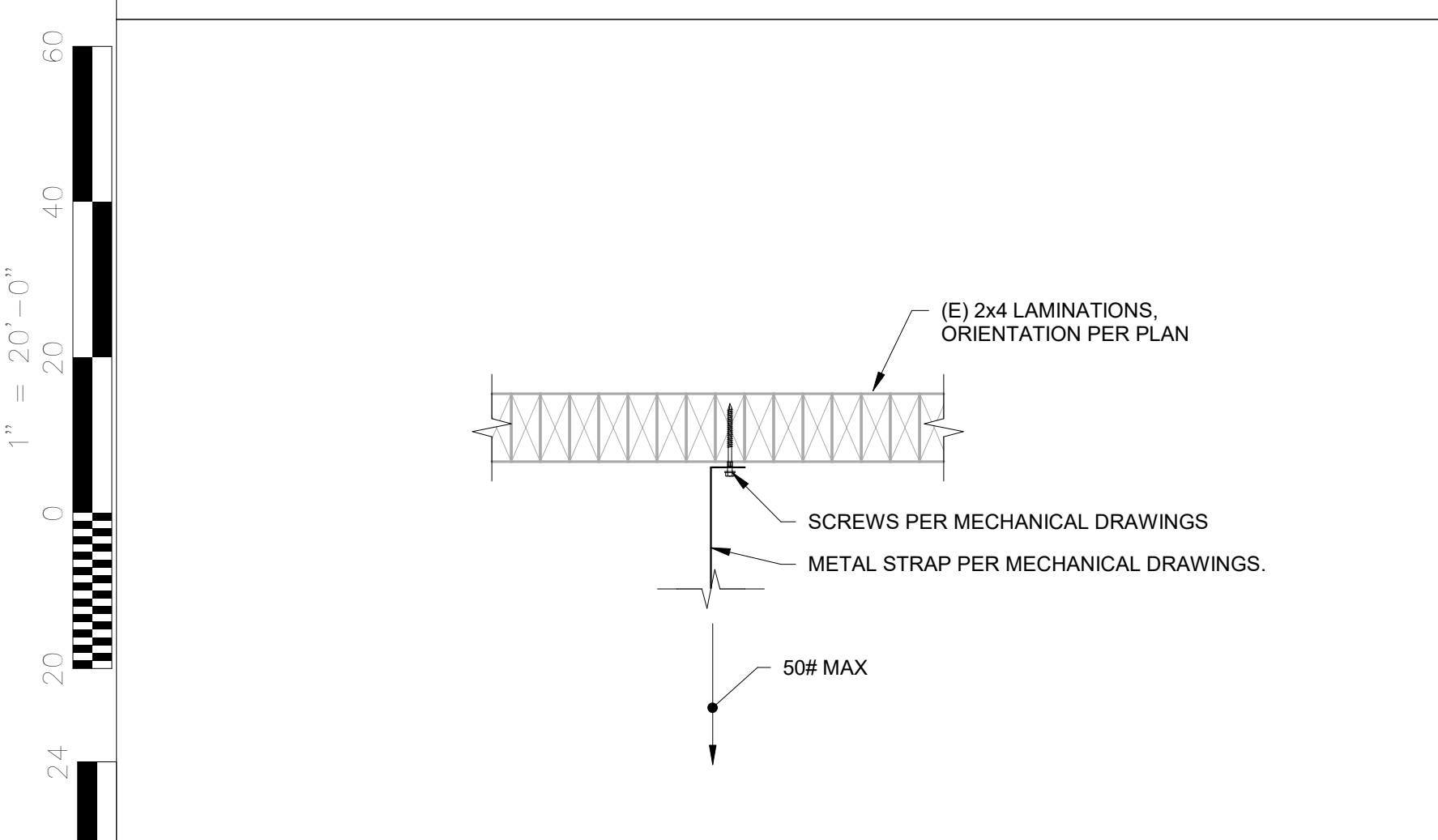
SECTION D
 S2.1
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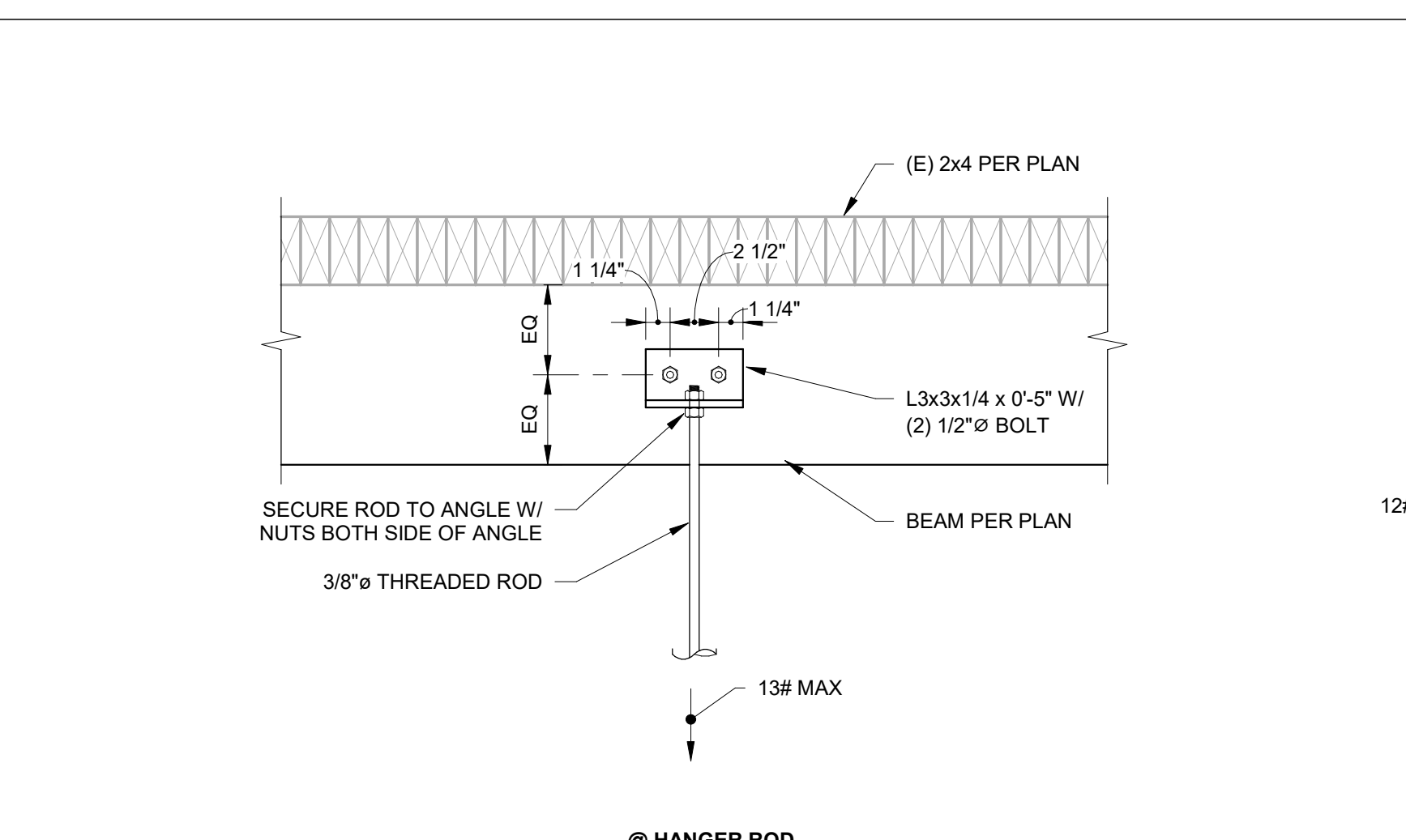
SECTION E
 S2.1
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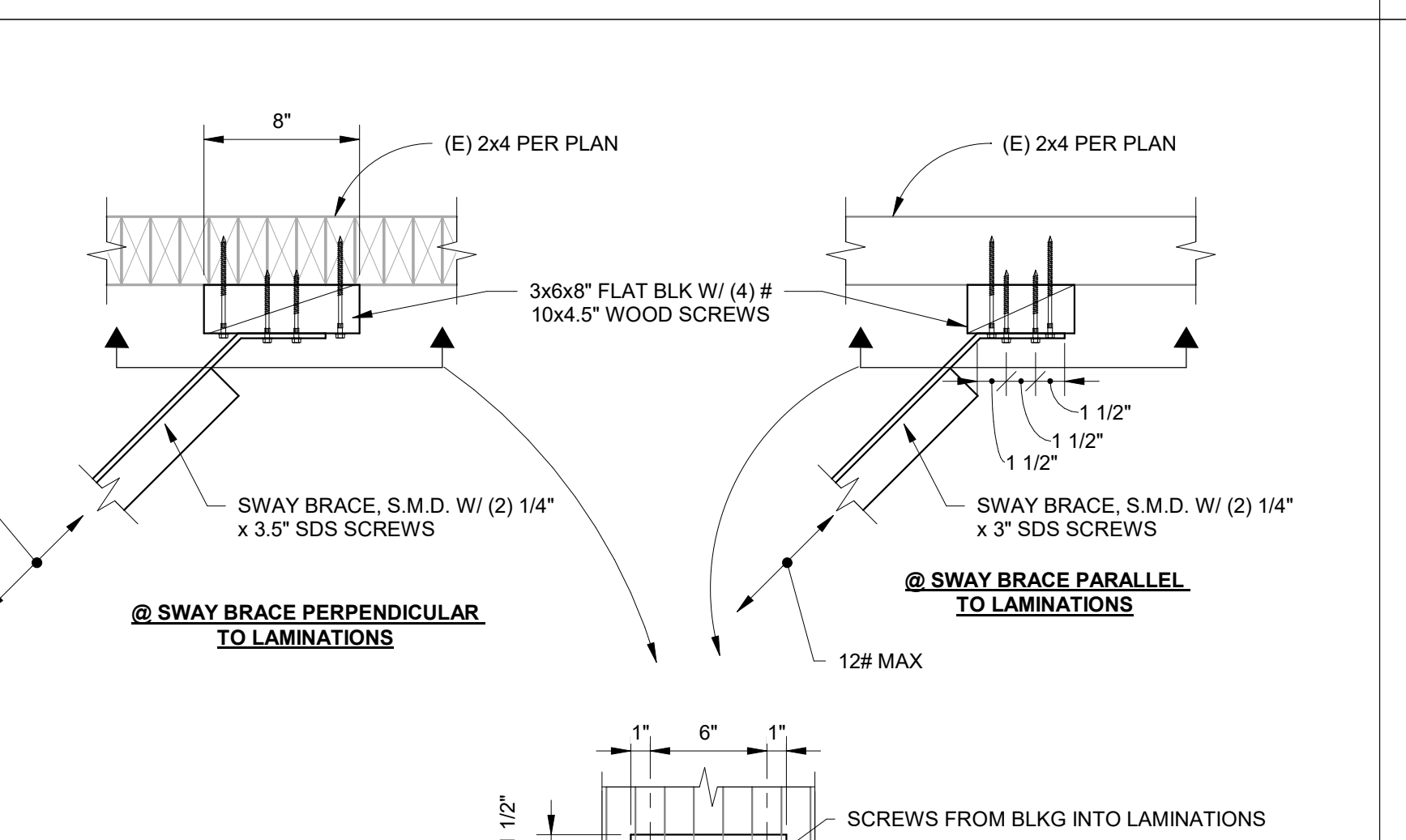
SUSPENDED ELEC CONDUIT SUPPORT DETAIL
 F
 S2.1
 3" = 1'-0"



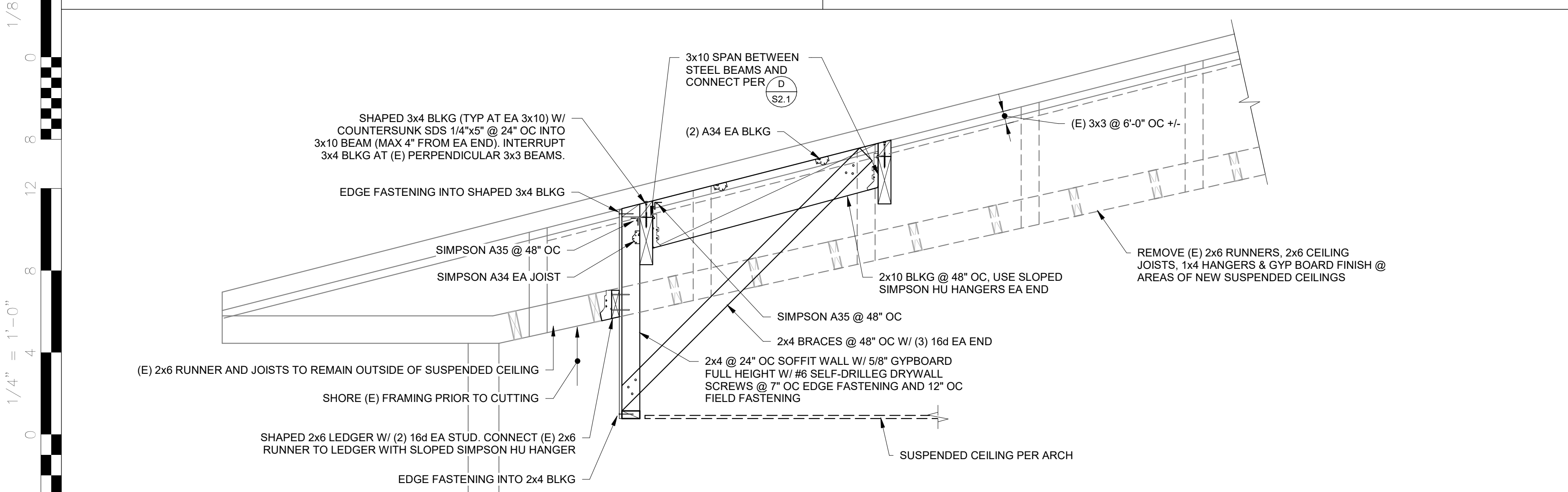
MECH UNIT/DUCT STRAP SUPPORT DETAIL
 G
 S2.1
 1 1/2" = 1'-0"



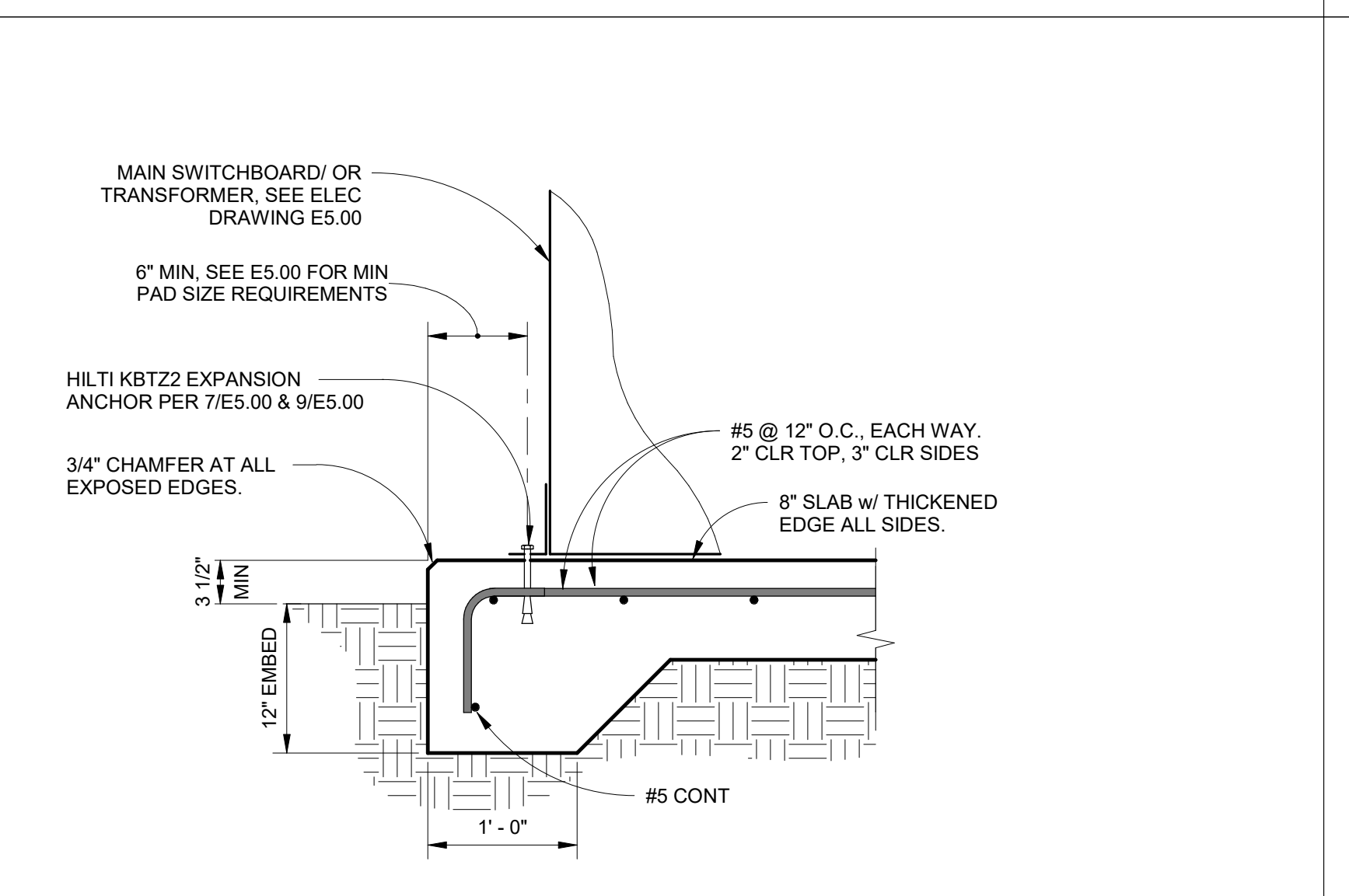
SUSPENDED UNIT SUPPORT DETAIL
 H
 S2.1
 1 1/2" = 1'-0"



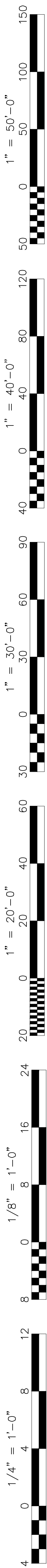
SUSPENDED UNIT SUPPORT DETAIL
 H
 S2.1
 1 1/2" = 1'-0"



CEILING SOFFIT DETAIL
 J
 S2.1
 3/4" = 1'-0"



EQUIPMENT PAD
 K
 S2.1
 1" = 1'-0"



INDOOR UNIT SCHEDULE table with columns for MARK, IDU A1, IDU C1, IDU D1 and rows for CFM, ESP, MINIMUM OSA, HP/BHP/WATTS, VOLTAGE/PHASE, MCA/MOCP, RPM, DRIVE, MOUNTING, COOLING, TOTAL, SENSIBLE, EADB/EAWB, AMBIENT DB, REFRIGERANT, LIQUID LINE SIZE, SUCTION LINE SIZE, CONDENSATE CONN, SEER/EER AT AHRI, HEATING, CAPACITY, EADB, AMBIENT DB, HSPF/COP, FILTERS, QUANTITY/SIZE, TYPE, PD, CLEAN, MANUFACTURER, TYPE, MODEL NUMBER, CONTROL, SERVICE, OP WEIGHT, ACCESSORIES.

PACKAGE AIR CONDITIONING UNIT SCHEDULE table with columns for AC C1 through AC E5 and rows for MARK, VOLTS/PHASE, MCA/MOCP, FLA/LRA, FUSE SIZE, BLOWER, CFM, DUCT SP, MINIMUM OSA, HP/BHP, DRIVE, COOLING, TOTAL, SENSIBLE, EADB/EAWB, AMBIENT DB, REFRIGERANT, CONDENSATE CONN, SEER/EER AT AHRI, HEATING, CAPACITY, EADB, AMBIENT DB, STRIP HEATER, HSPF/COP, FILTERS, RA QUANTITY/SIZE, TYPE, PD, CLEAN, OSA QUANTITY/SIZE, TYPE, MANUFACTURER, TYPE, MODEL NUMBER, CONTROL, SERVICE, OP WEIGHT, ACCESSORIES.

OUTDOOR UNIT SCHED table with columns for ODU A1, ODU C1, ODU D1 and rows for MARK, MCA/MOCP, FUSE SIZE, VOLTAGE/PHASE, COOLING, TOTAL, AMBIENT DB, SEER/EER AT AHRI, HEATING, CAPACITY, AMBIENT DB, HSPF/COP, REFRIGERANT, LIQUID LINE SIZE, SUCTION LINE SIZE, MANUFACTURER, TYPE, MODEL NUMBER, SERVICE, OP WEIGHT, ACCESSORIES.

PACKAGE AIR CONDITIONING UNIT SCHEDULE table with columns for AC A1 through AC A5 and rows for MARK, VOLTS/PHASE, MCA/MOCP, FLA/LRA, FUSE SIZE, BLOWER, CFM, DUCT SP, MINIMUM OSA, HP/BHP, DRIVE, COOLING, TOTAL, SENSIBLE, EADB/EAWB, AMBIENT DB, REFRIGERANT, CONDENSATE CONN, SEER/EER AT AHRI, HEATING, CAPACITY, EADB, AMBIENT DB, STRIP HEATER, HSPF/COP, FILTERS, RA QUANTITY/SIZE, TYPE, PD, CLEAN, OSA QUANTITY/SIZE, TYPE, MANUFACTURER, TYPE, MODEL NUMBER, CONTROL, SERVICE, OP WEIGHT, ACCESSORIES.

GRILLE SCHEDULE table with columns for MARK, LOCATION, DESCRIPTION and rows A through F describing ceiling and duct supplies and returns.

MEP COMPONENT ANCHORAGE NOTE: ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS.

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE: PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E), MPO MDD PPO EDO OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MPO MDD PPO EDO OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM #) #OPM-0043 MASON WEST SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS.

GENERAL NOTES section containing 12 numbered items detailing project requirements, including specifications for plumbing, HVAC, electrical, and construction details.

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Owner: BAKERSFIELD CITY SCHOOL DISTRICT 1300 BAKER STREET FRESNO, CA. 93706

Project Name: HVAC REPLACEMENT

Project Address: MUNSEY ELEMENTARY SCHOOL 3801 BRAVE AVENUE BAKERSFIELD, CA 93309

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ARCHITECTURE ENGINEERING INTERIOR DESIGN

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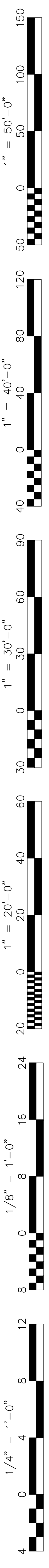
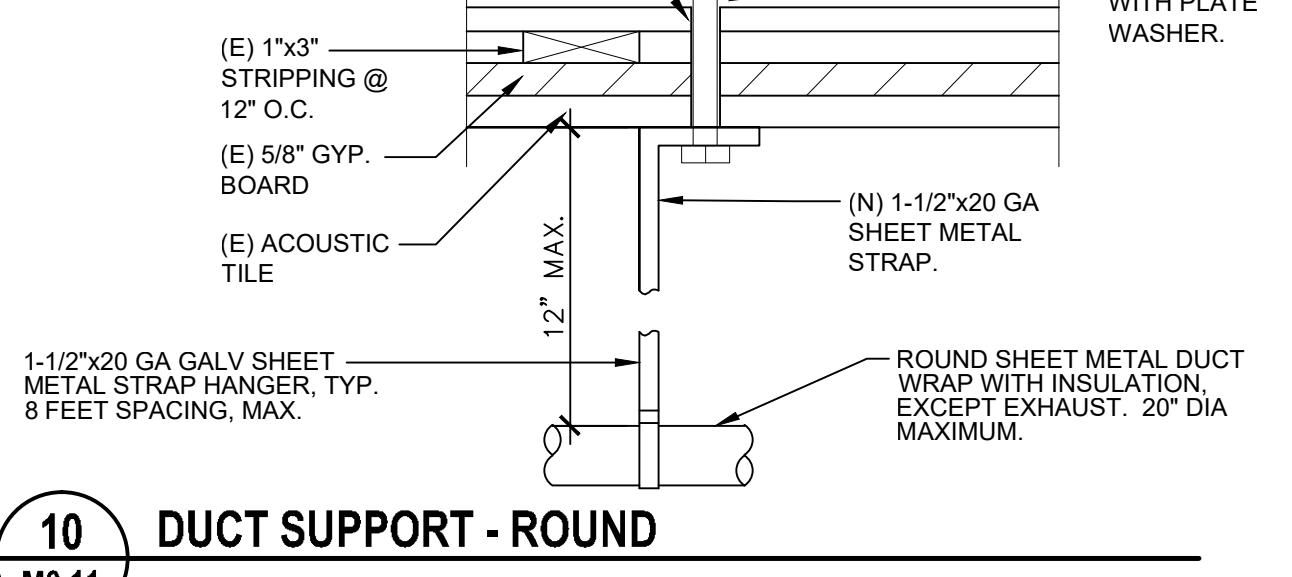
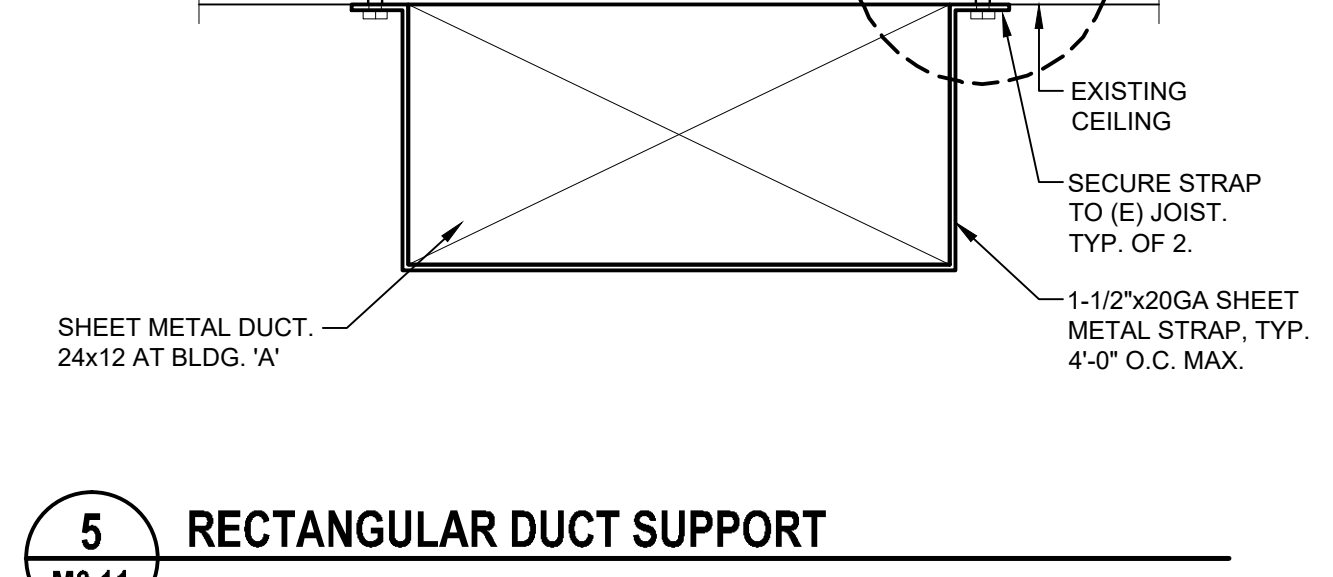
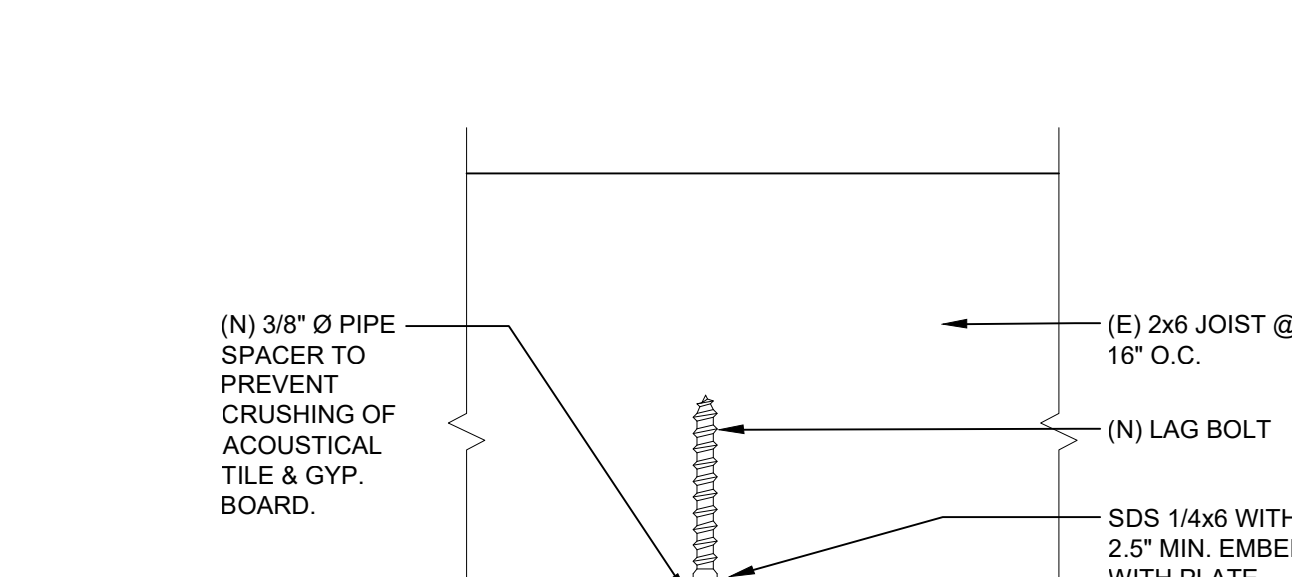
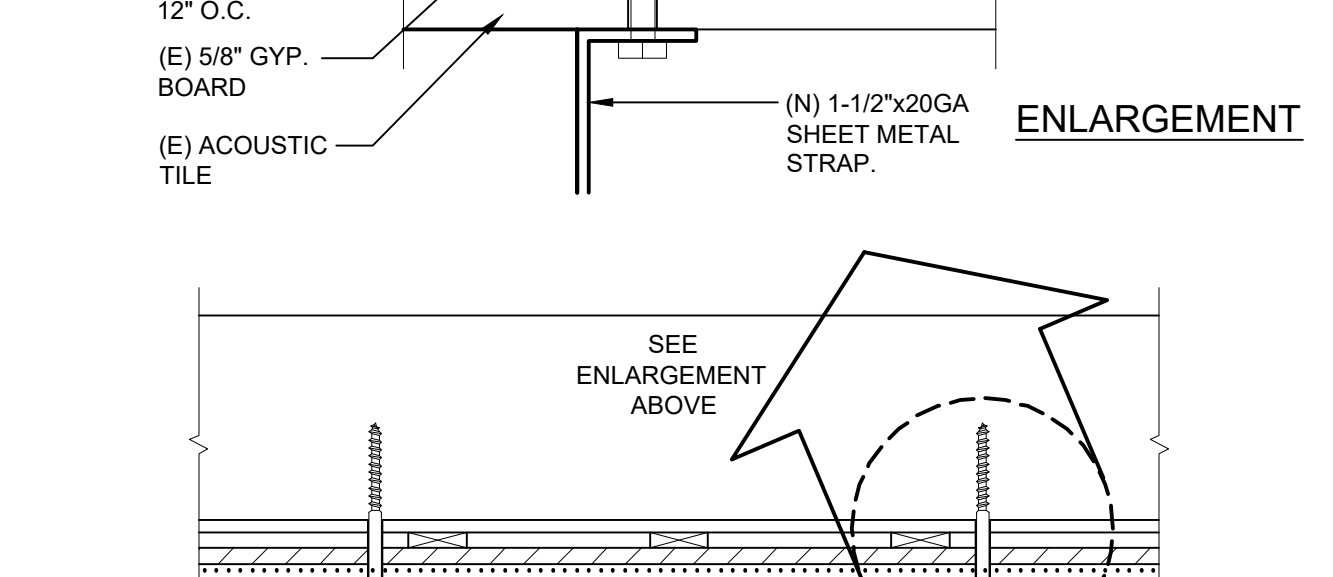
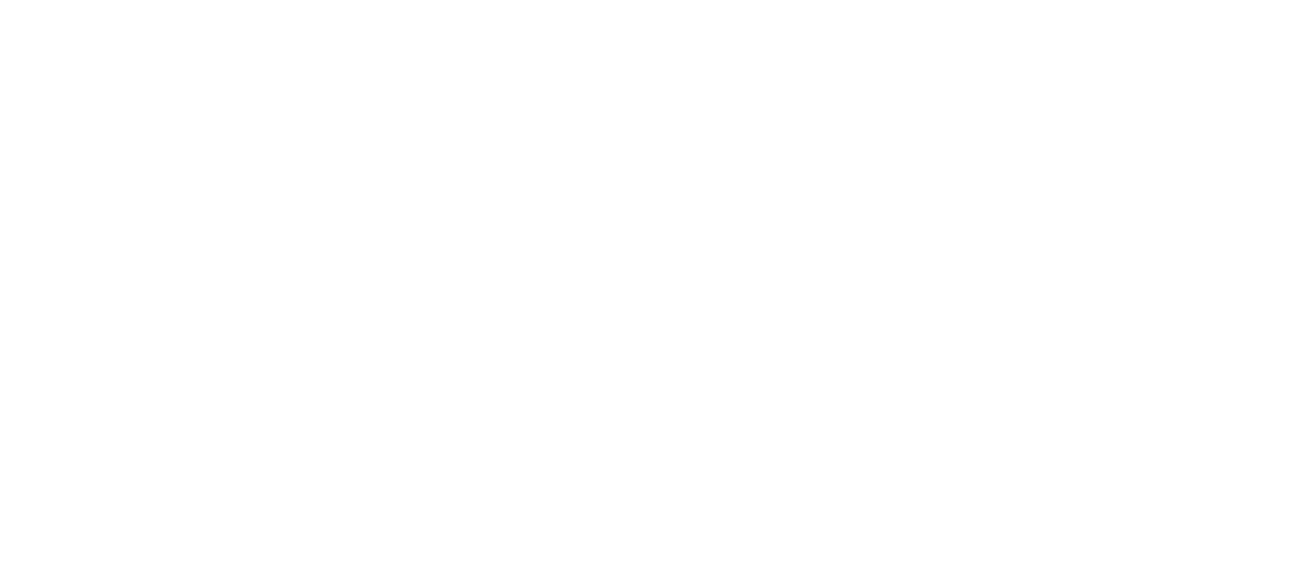
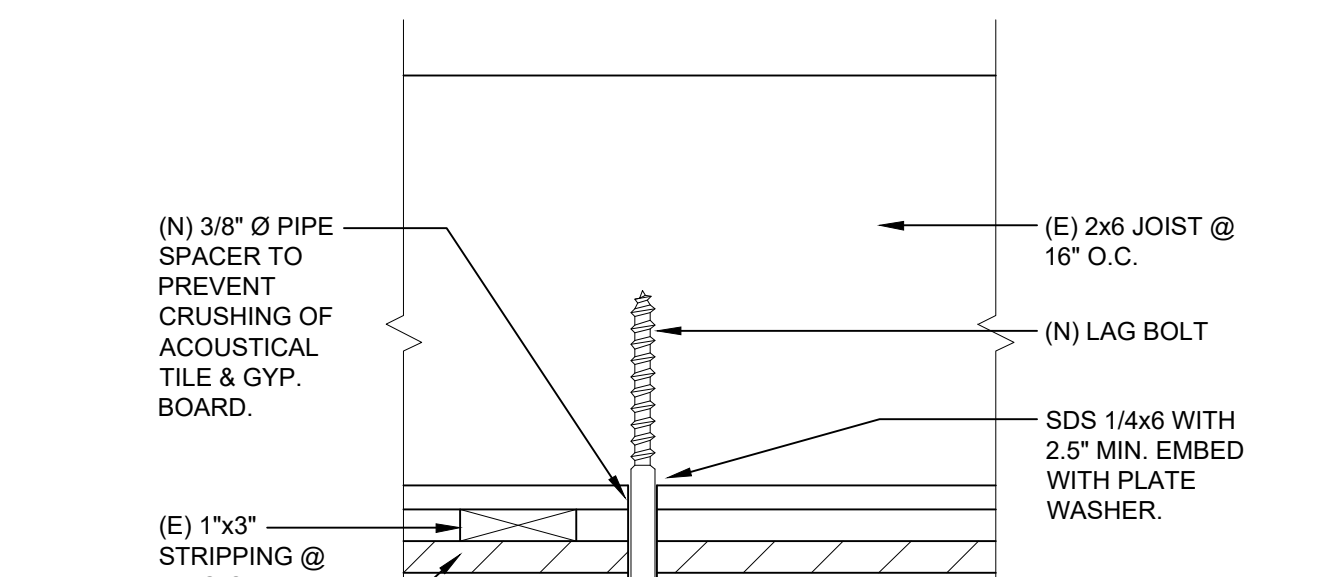
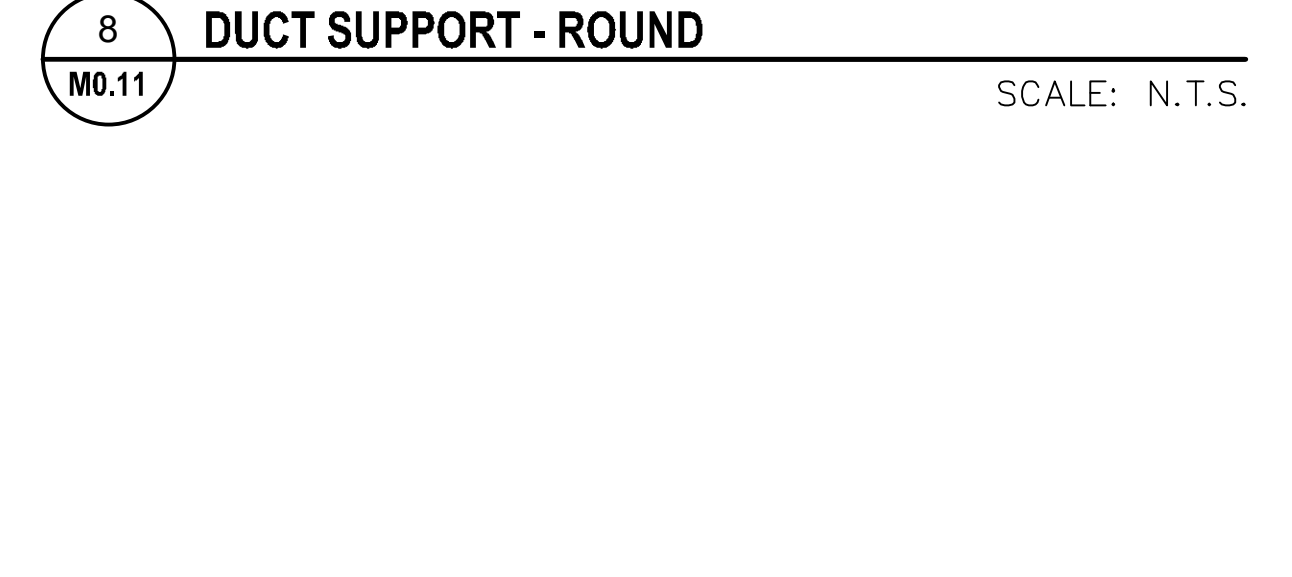
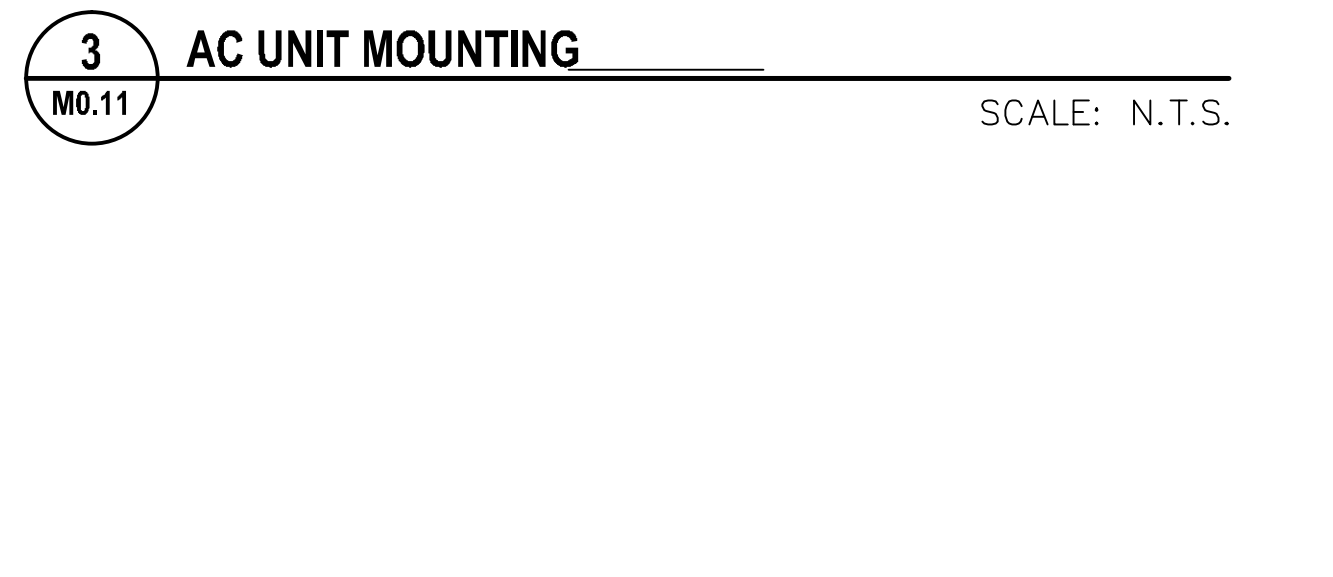
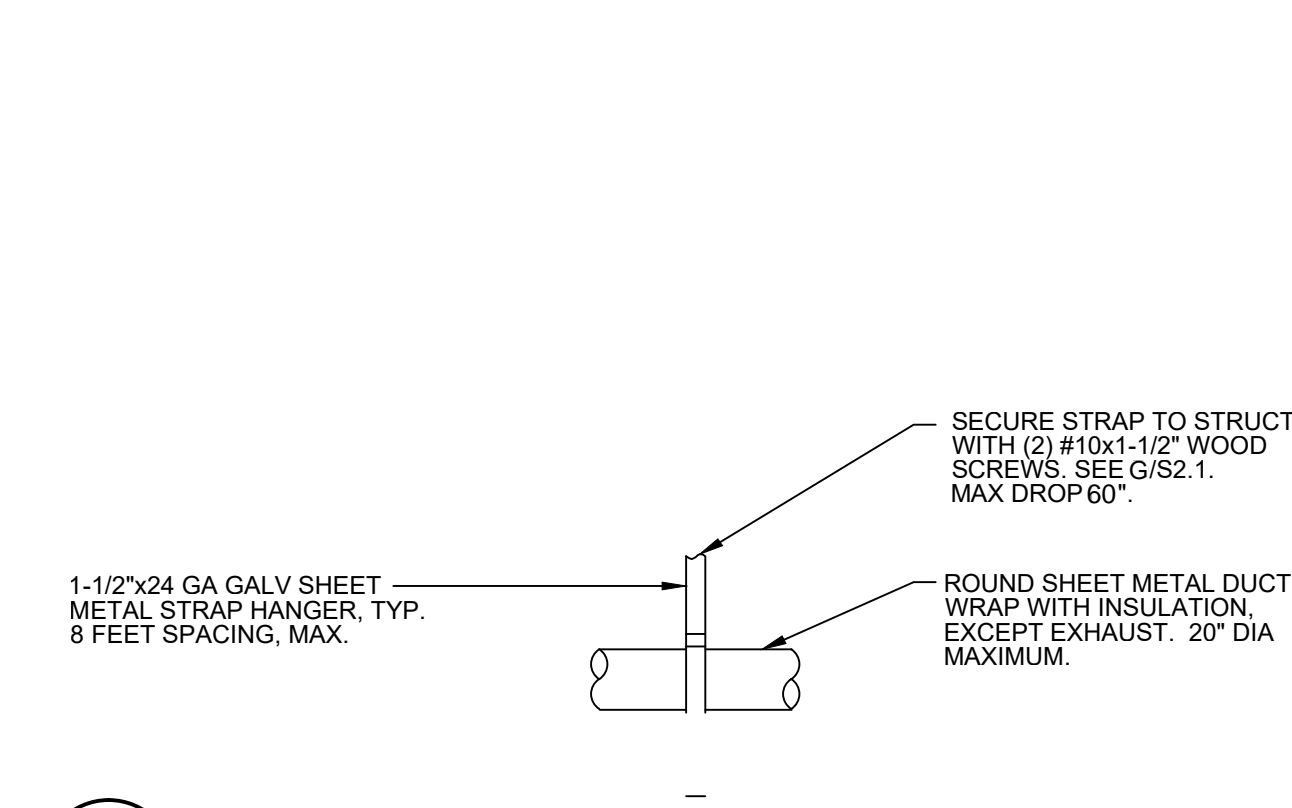
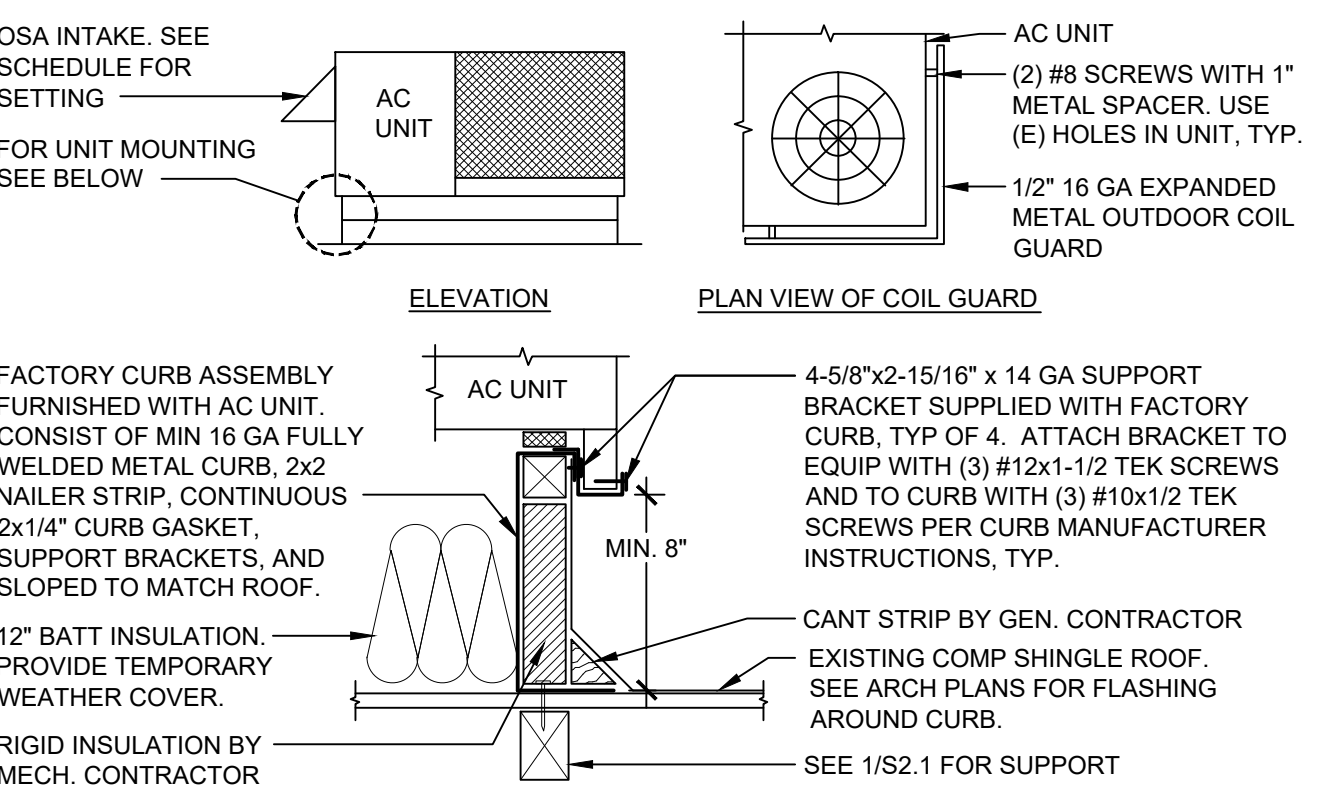
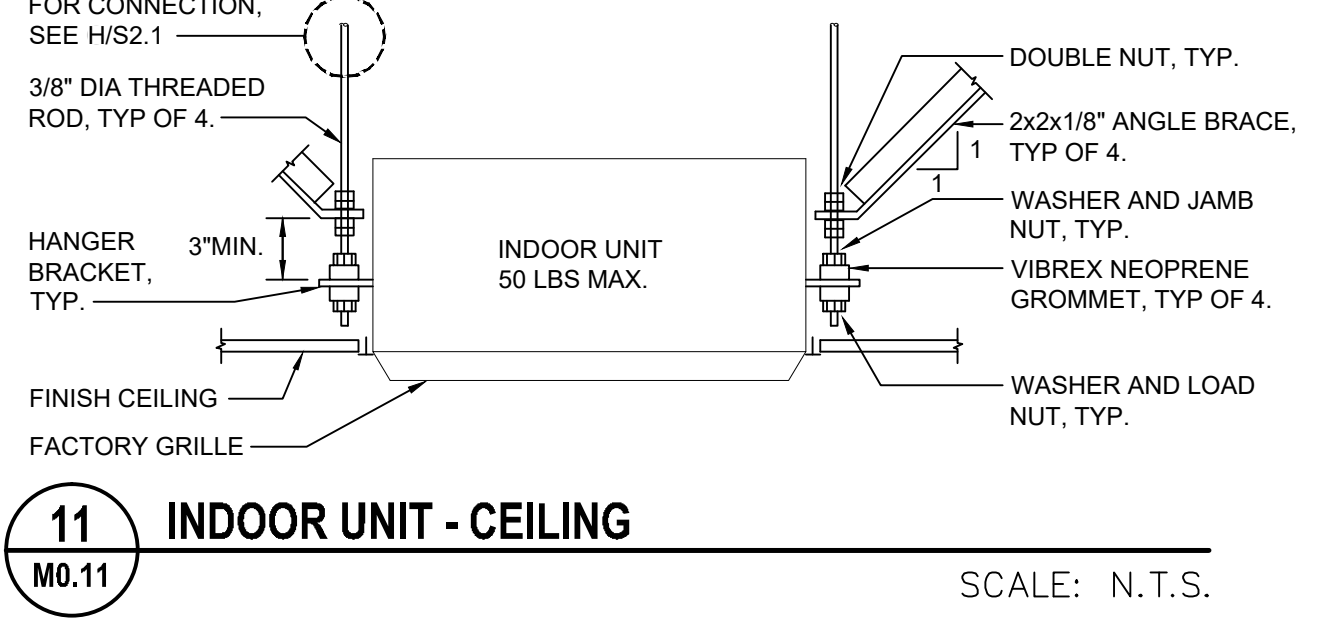
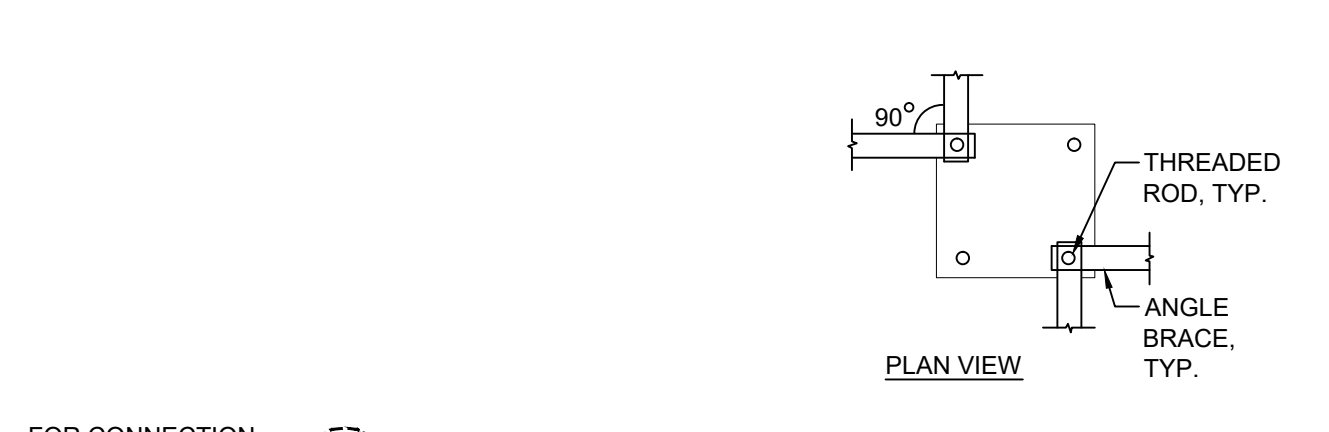
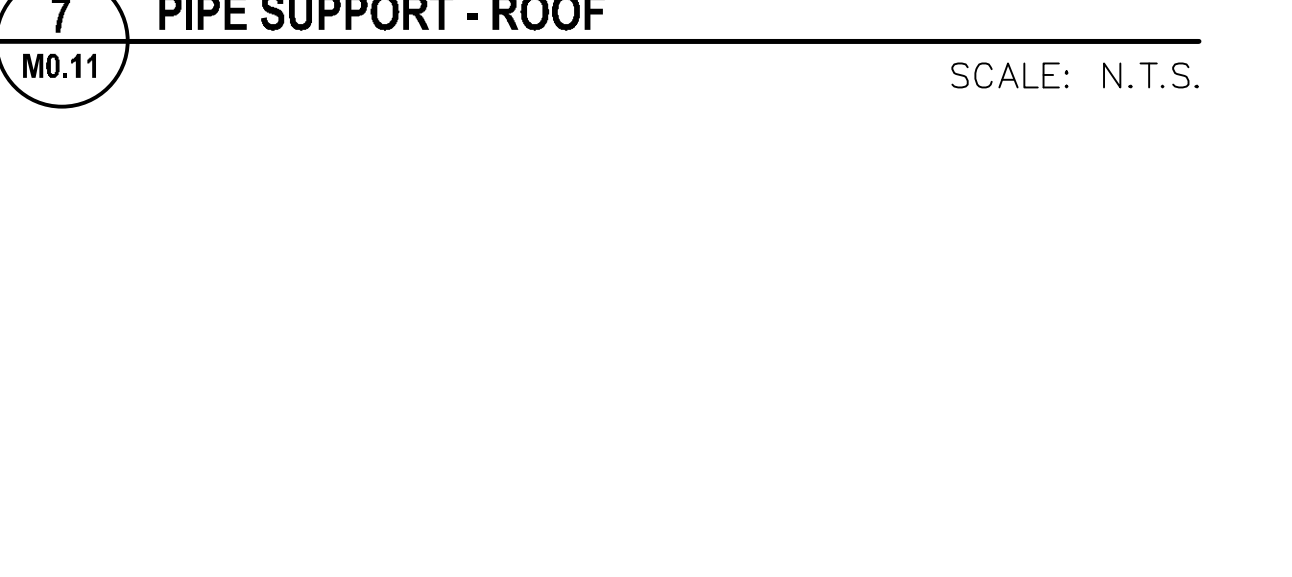
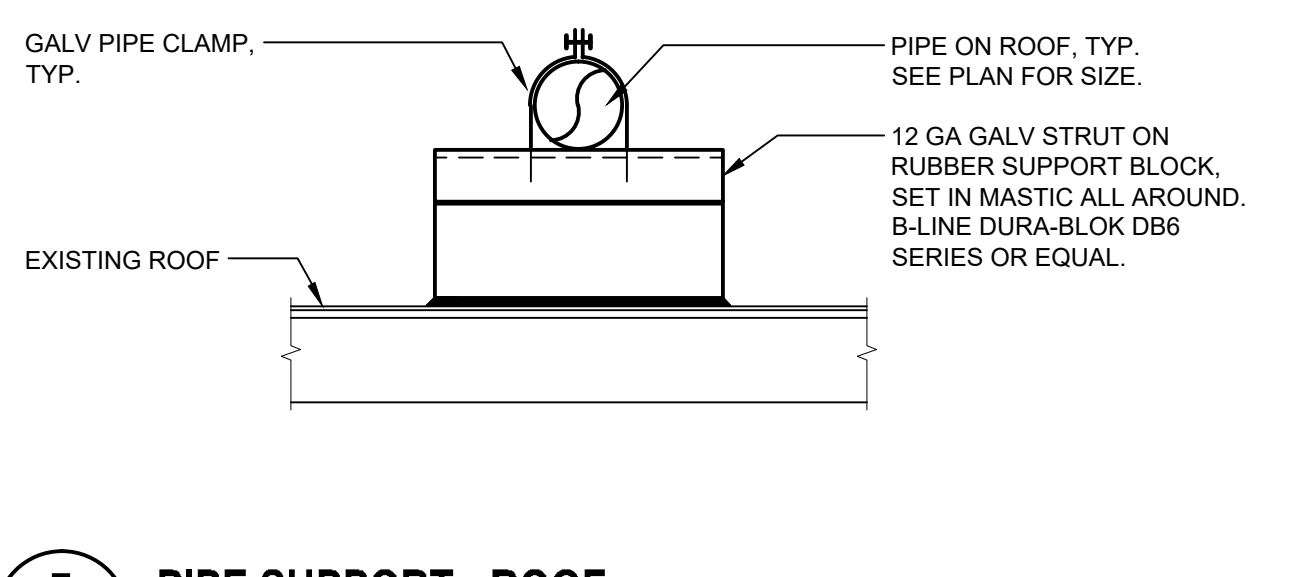
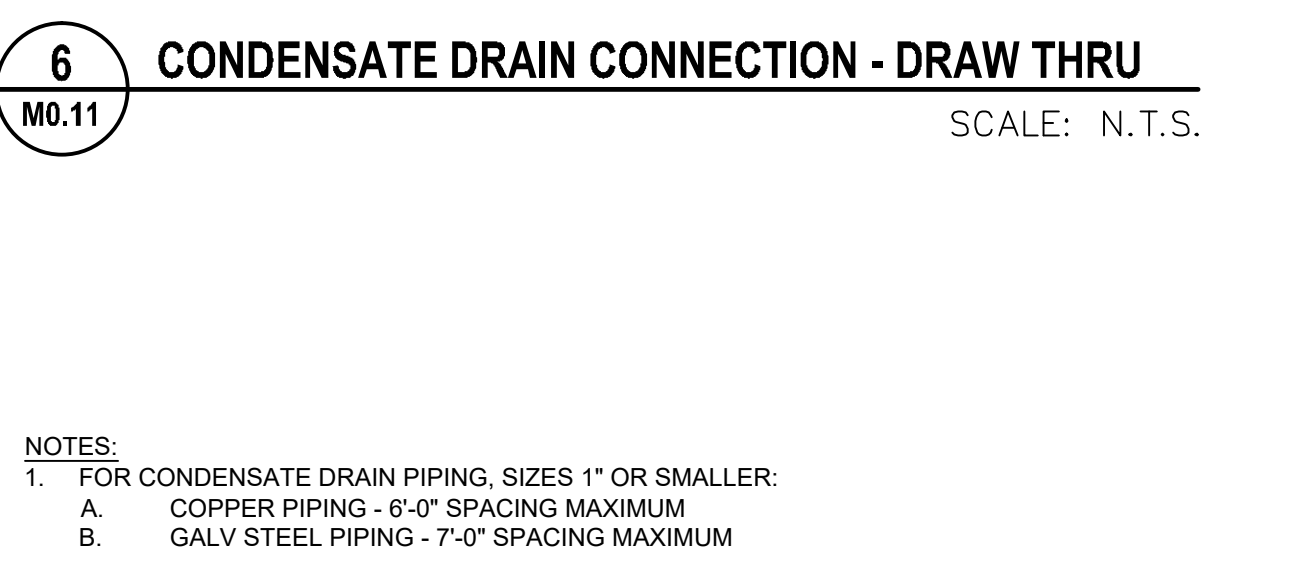
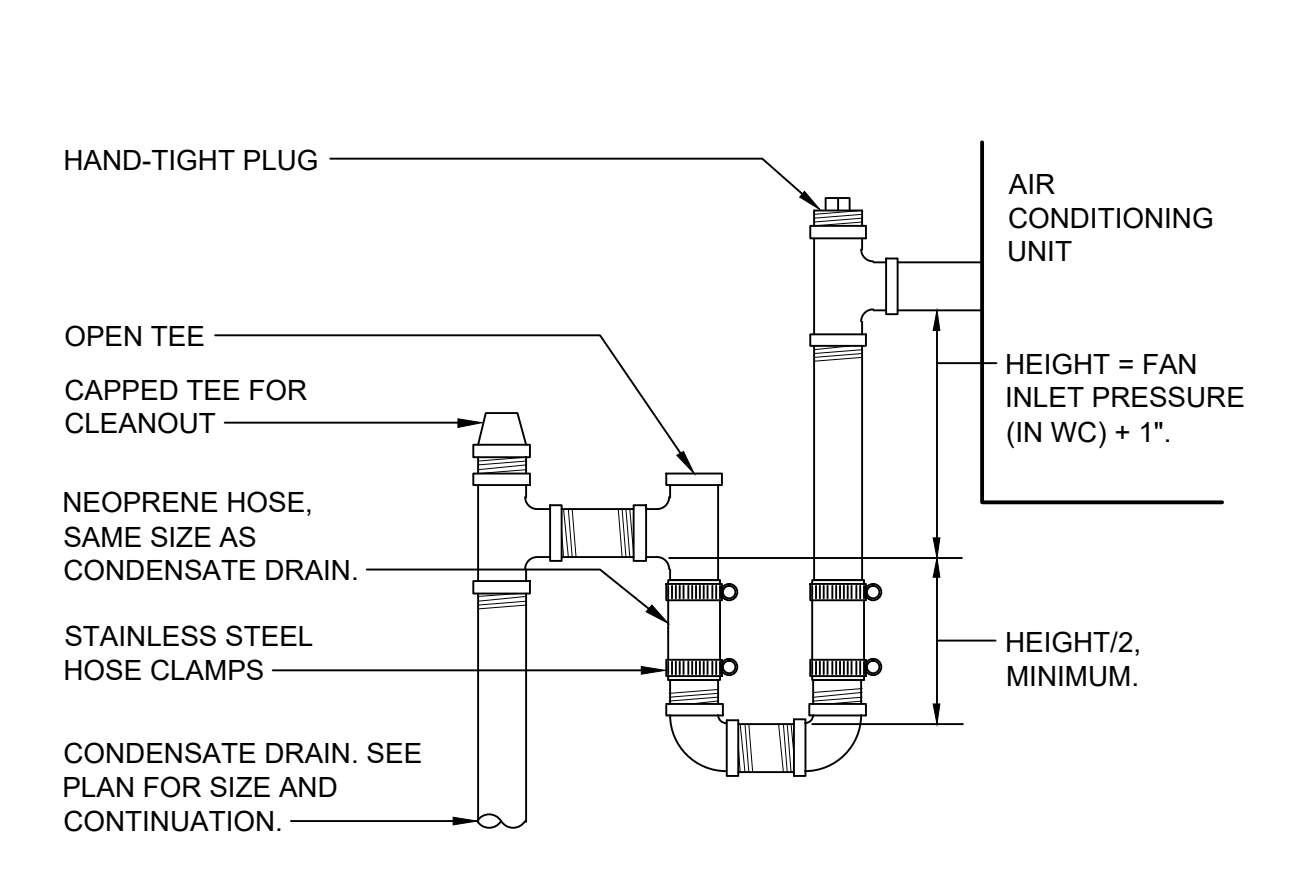
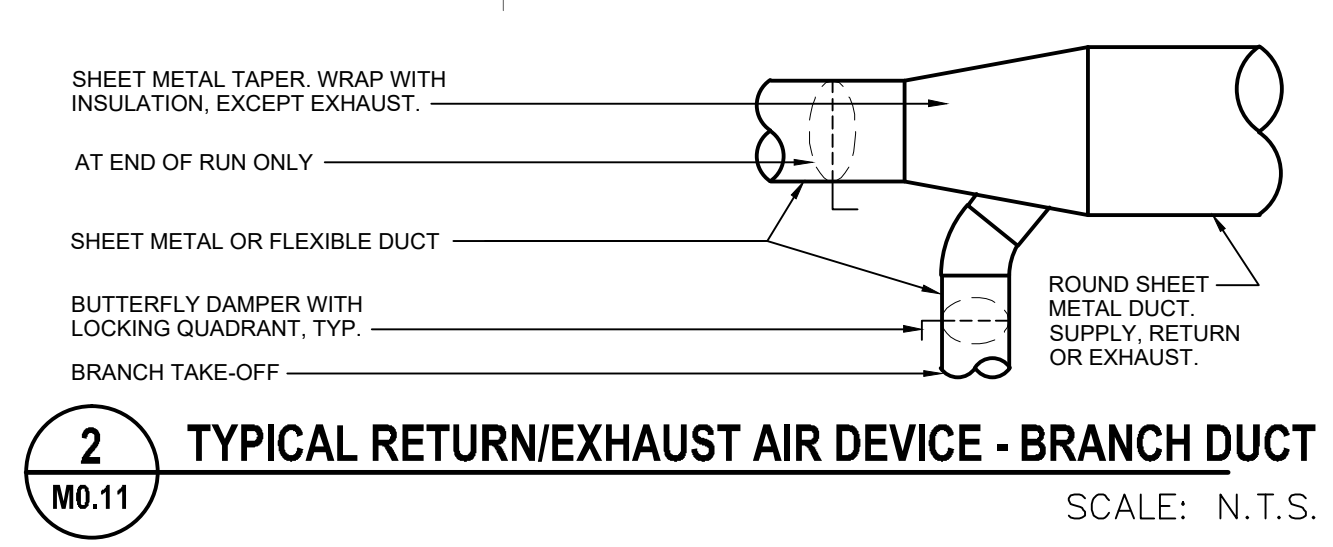
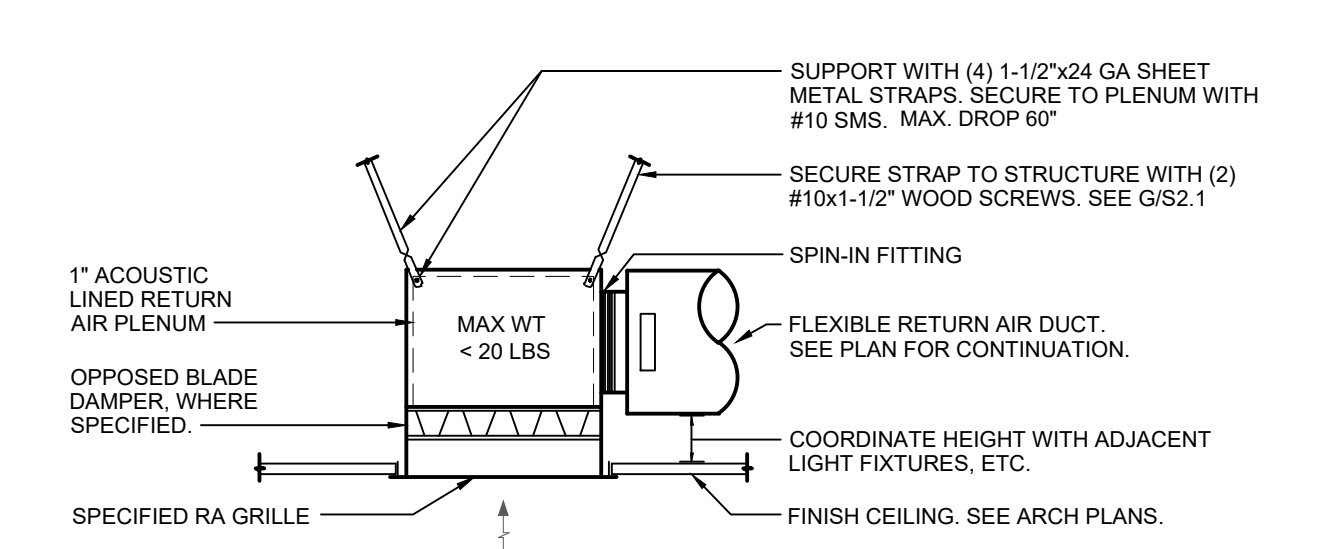
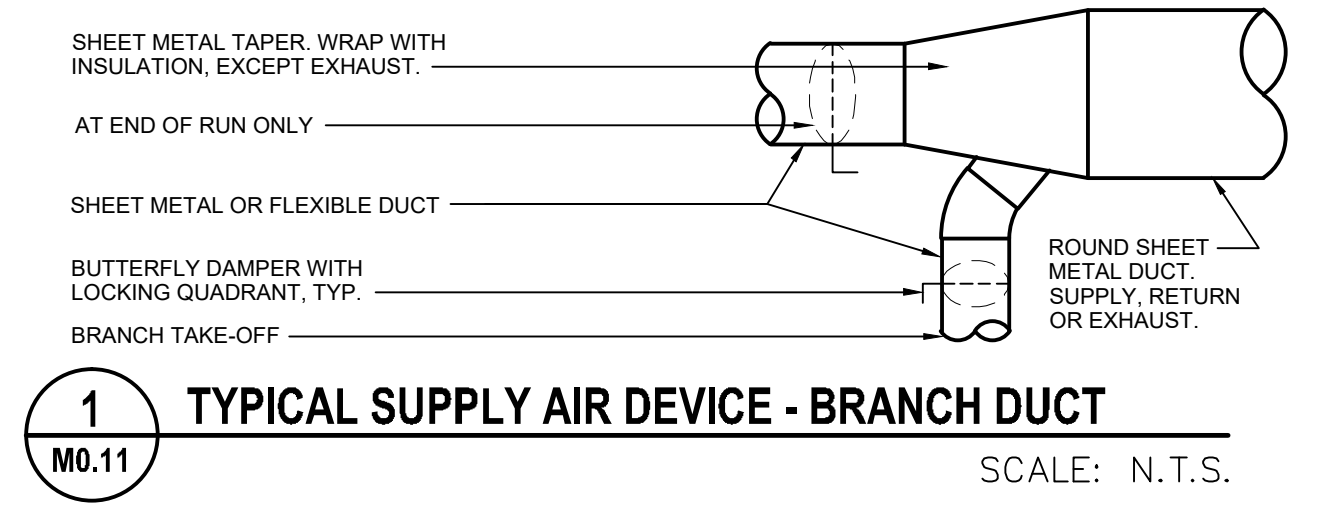
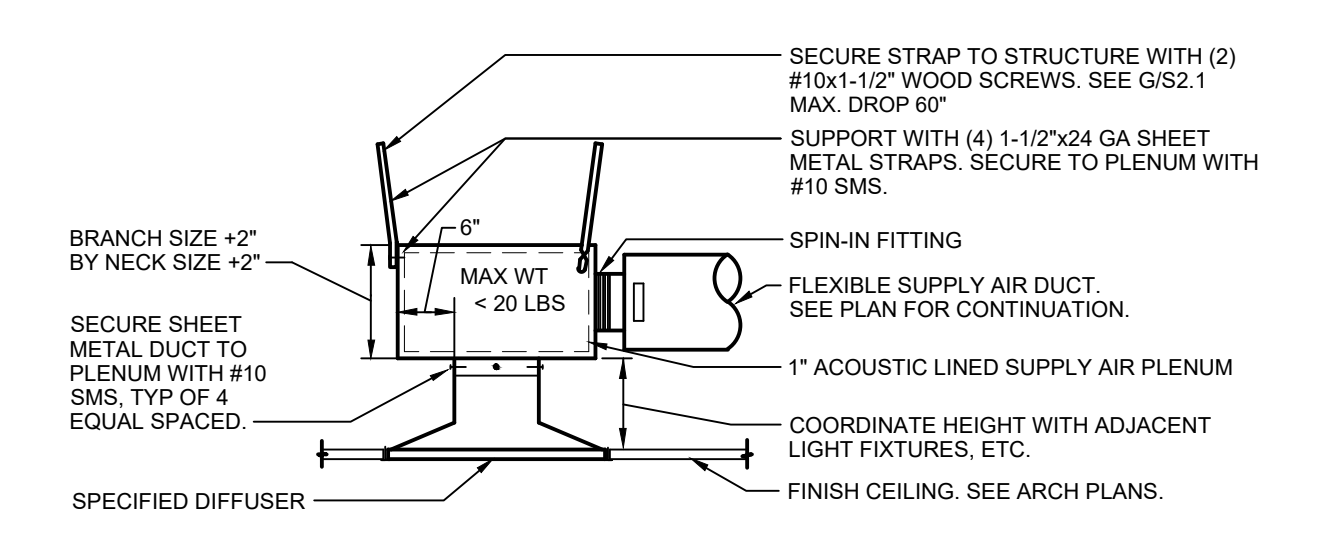
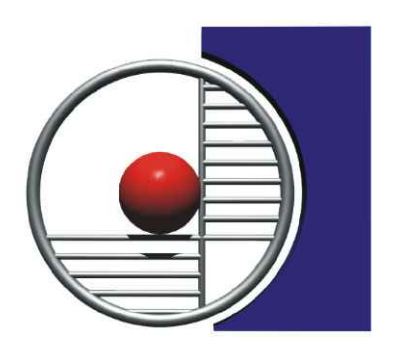
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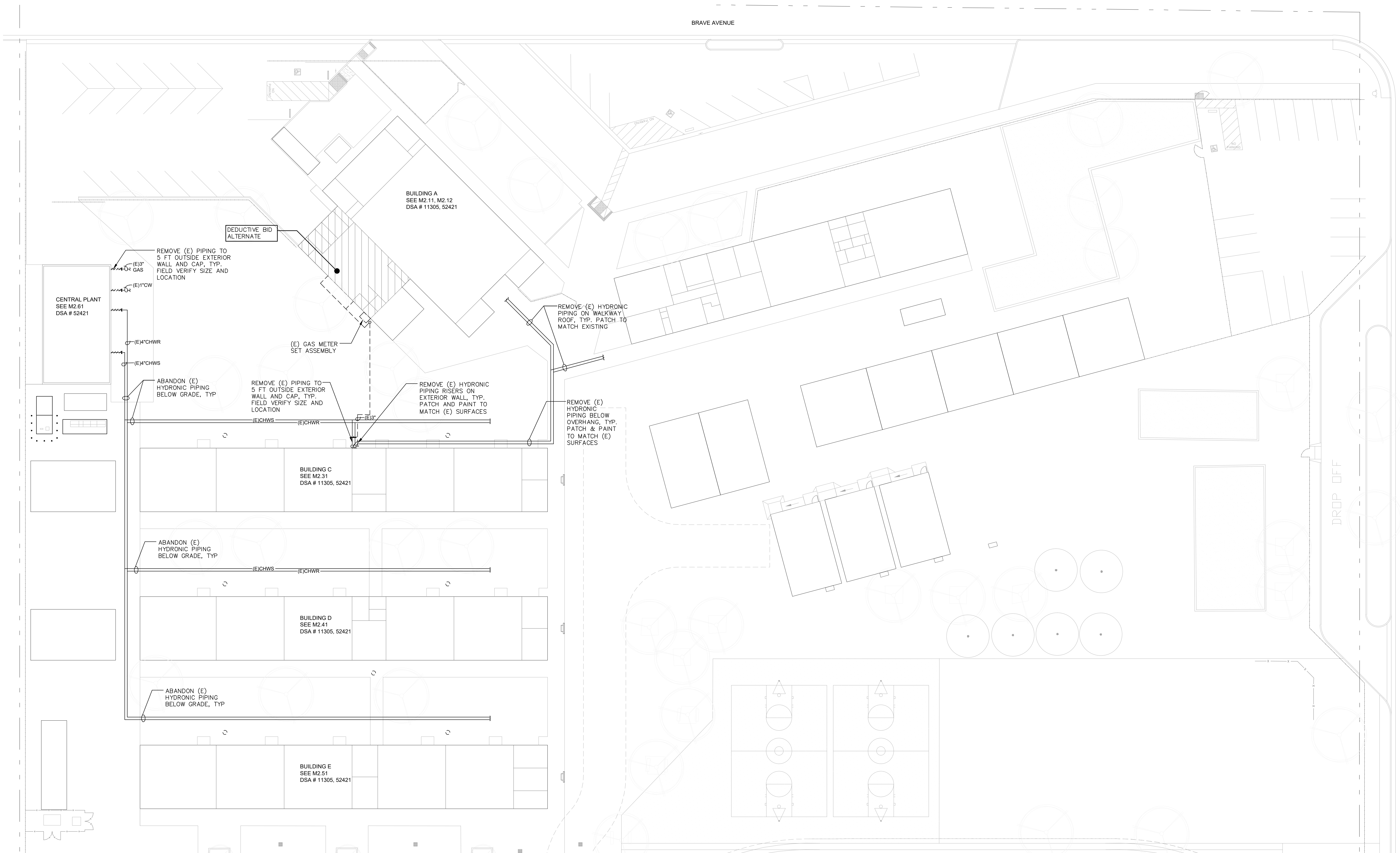
GENERAL NOTES - LEGEND section with symbols for equipment, ductwork, and piping.

GENERAL NOTES - LEGEND section with symbols for equipment, ductwork, and piping.

Job No.: 5524 Sheet No.: M0.01 Release: DSA SUBMITTAL 11/28/22

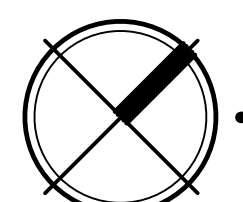
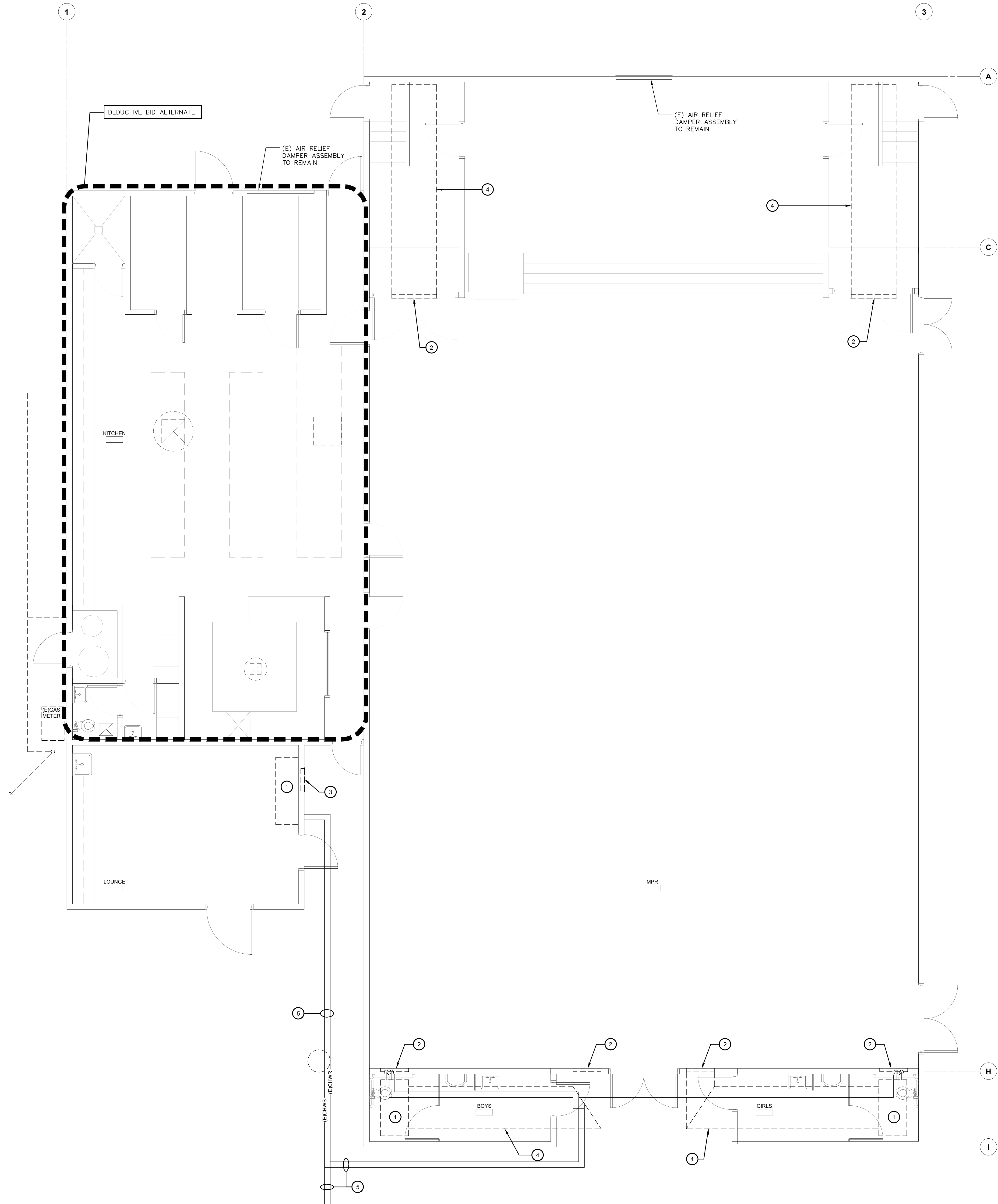
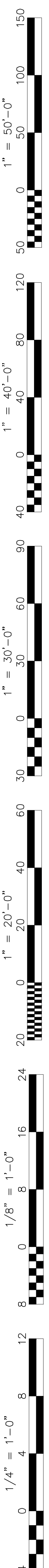
MECHANICAL LEGEND table with columns for SYMBOL, ABBR, DESCRIPTION and rows for various mechanical components like valves, dampers, and ductwork.





 **MECHANICAL SITE PLAN**
HVAC REPLACEMENT

SCALE: 1" = 20'




MECHANICAL PLAN - BLDG A - DEMO
HVAC REPLACEMENT

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

KEY NOTES

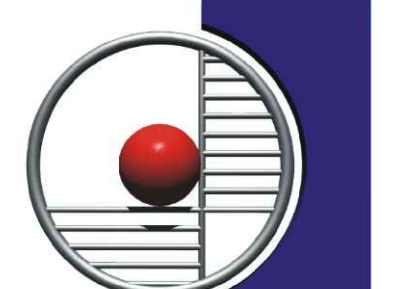
1. REMOVE EXISTING FAN COIL AND ALL RELATED COMPONENTS, DUCTWORK, PIPING, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
2. REMOVE EXISTING WALL GRILLE AND DUCTWORK. PATCH OPENING TO MATCH EXISTING, TYP.
3. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENING TO MATCH EXISTING, TYP.
4. REMOVE EXISTING DUCTWORK. PATCH OPENING TO MATCH EXISTING, TYP.
5. REMOVE EXISTING HYDRONIC PIPING ON ROOF AND ALL RELATED COMPONENTS, TYP. PATCH TO MATCH EXISTING, TYP.

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Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 FRESNO, CA. 93706

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309


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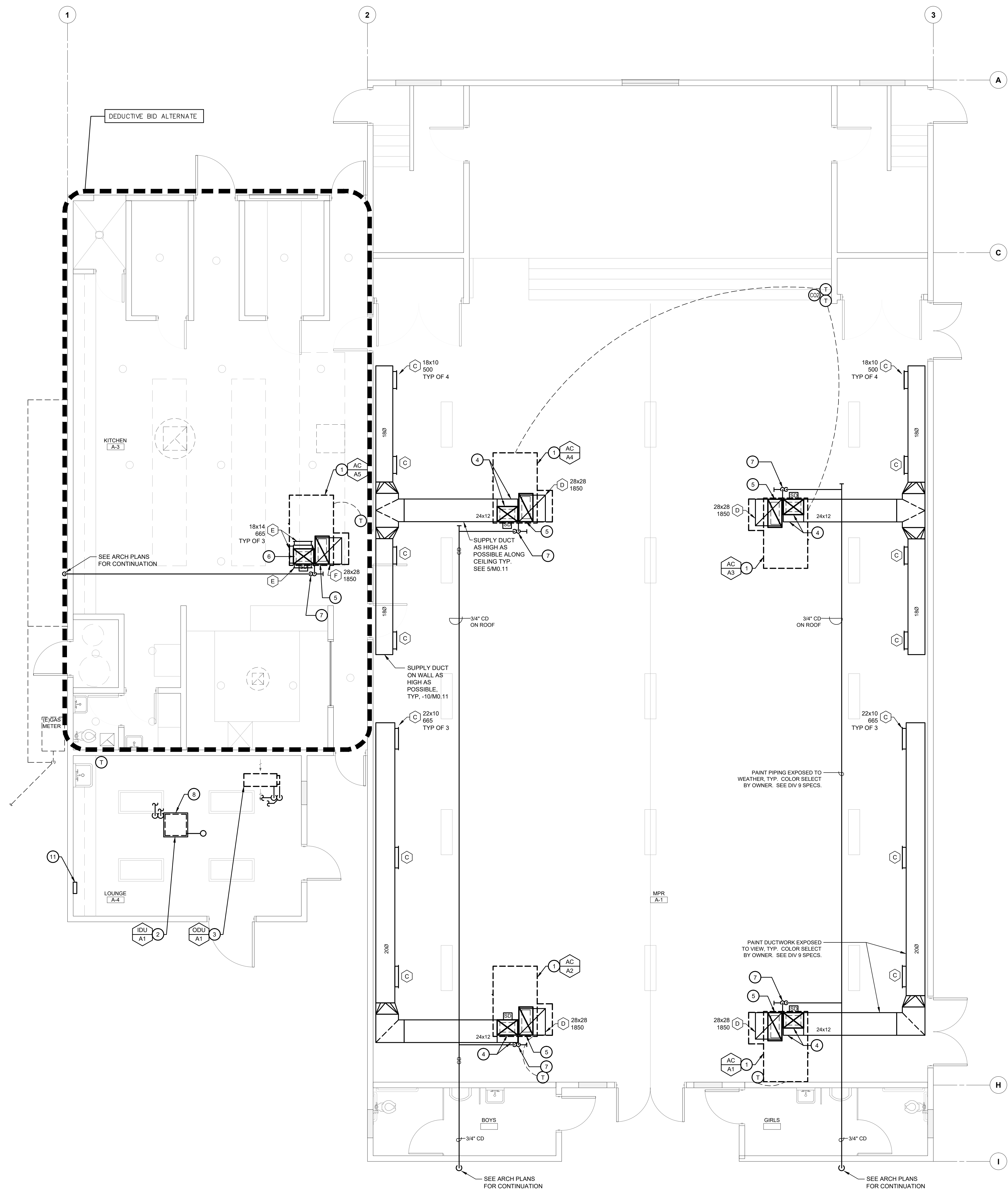
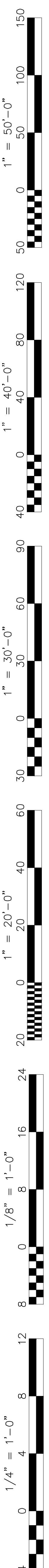
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MECHANICAL PLAN - BLDG A

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5524

Sheet No.:
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KEY NOTES

1. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 28x12(L) RA PLENUM DROP. PROVIDE TRANSITIONS AS NEEDED. SEE 5/M0.11
2. INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6\"/>

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BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
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Project Name:
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Project Address:
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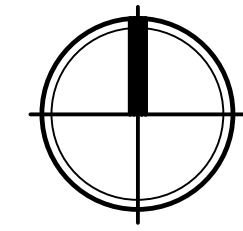
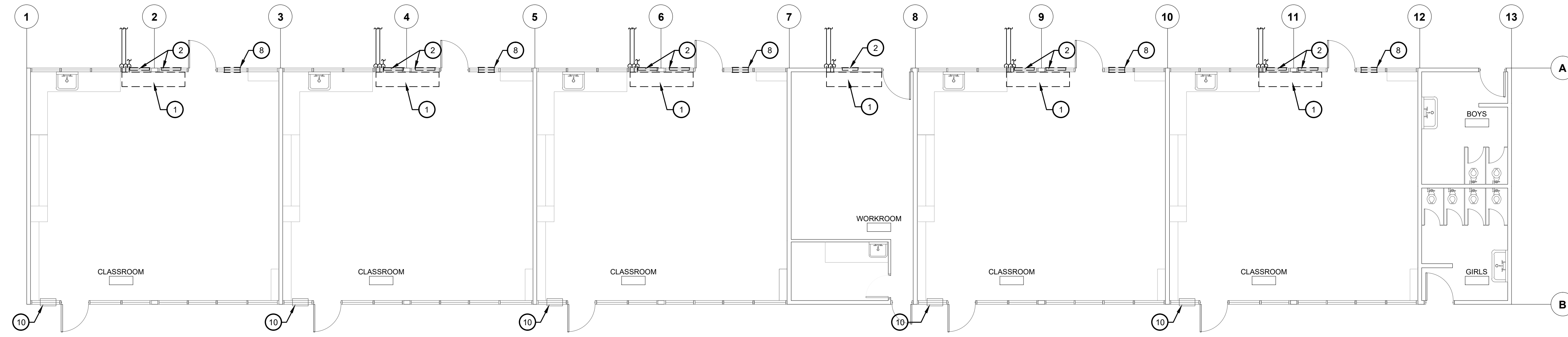
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MECHANICAL PLAN - BLDG A

Job No.:
5524

Sheet No.:
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MECHANICAL PLAN - BLDG A - IMPROVEMENTS
HVAC REPLACEMENT

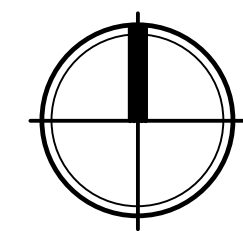
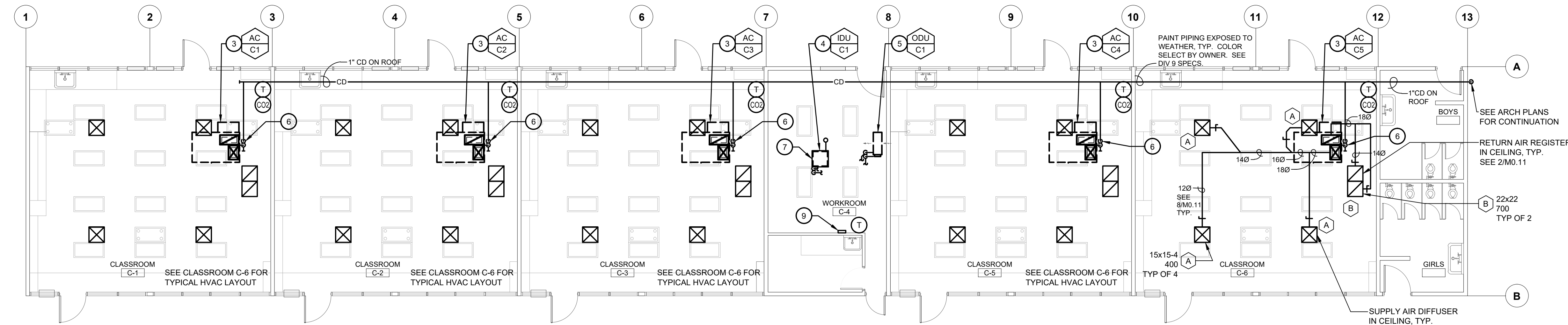
SCALE: 1/4" = 1'-0"



MECHANICAL PLAN - BLDG C - DEMO

HVAC REPLACEMENT

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



MECHANICAL PLAN - BLDG C - IMPROVEMENTS

HVAC REPLACEMENT

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

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP. TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH EXISTING, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 28x12(L) RA PLENUM DROP THRU ROOF. BETWEEN EXISTING STRUCTURAL MEMBERS. TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND OSA DUCT THRU ROOF. TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING TO OUTDOOR UNIT. SEE 11/M0.11
5. OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE 12/M0.11
6. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11
7. INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OF SINK. PATCH OPENINGS TO MATCH EXISTING.
8. REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL. PATCH OPENING TO MATCH EXISTING, TYP.
9. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
10. EXISTING BAROMETRIC RELIEF ASSEMBLY TO REMAIN, TYP. PROTECT FROM DAMAGE.

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BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309



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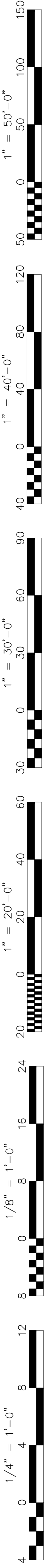
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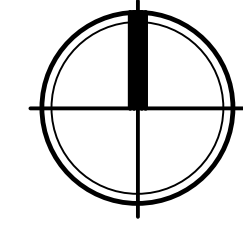
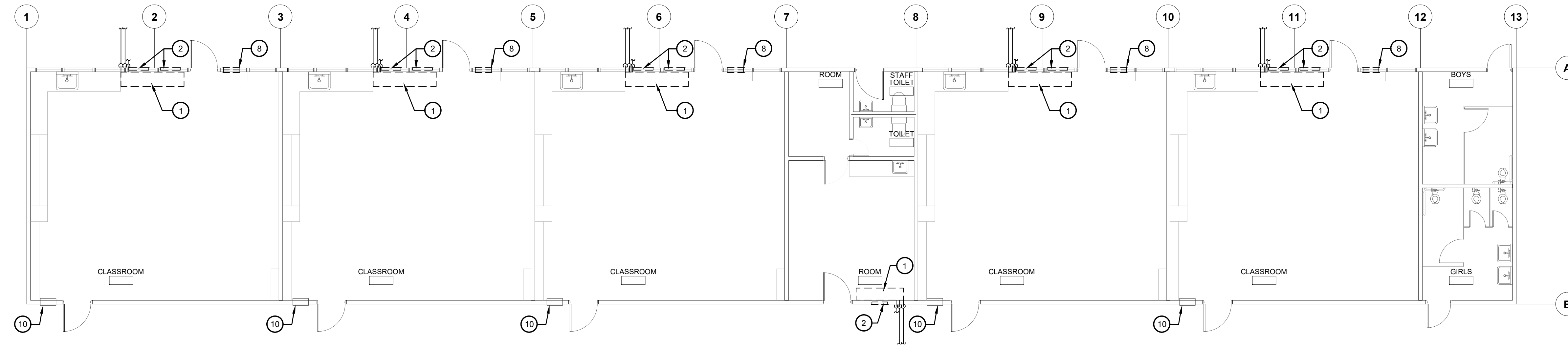


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MECHANICAL PLAN - BLDG C

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5524

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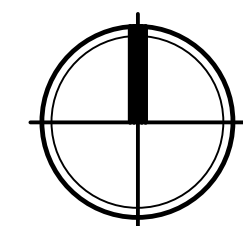
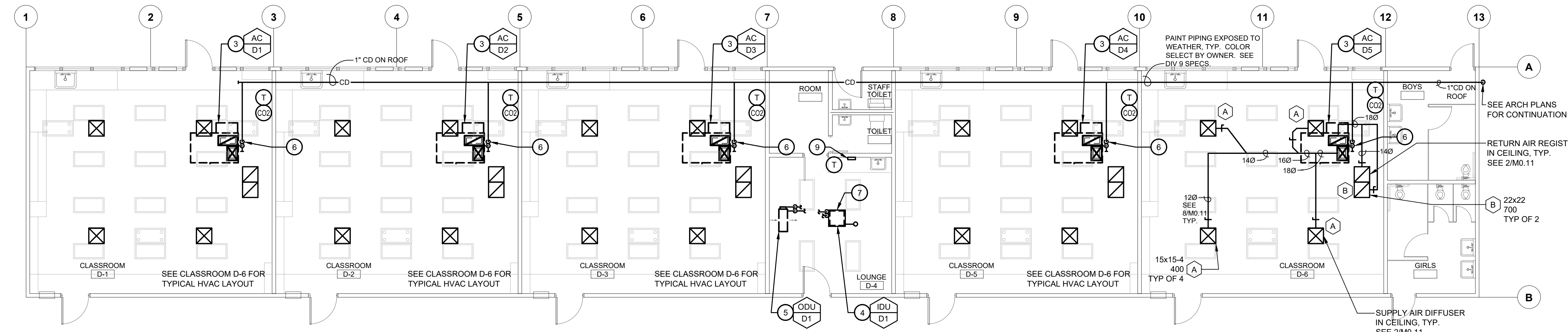




MECHANICAL PLAN - BLDG D - DEMO

HVAC REPLACEMENT

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



MECHANICAL PLAN - BLDG D - IMPROVEMENTS

HVAC REPLACEMENT

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

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP. TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH EXISTING, TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x11(L) RA PLENUM DROP THRU ROOF. BETWEEN EXISTING STRUCTURAL MEMBERS. TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/M0.11
4. INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. PROVIDE 6" ROUND OSA DUCT THRU ROOF. TURNED DOWN WITH 1/4" ALUMINUM MESH. EXTEND REFRIGERANT PIPING TO OUTDOOR UNIT. SEE 11/M0.11
5. OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE 12/M0.11
6. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/M0.11
7. INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP. CONNECT 1" DRAIN TO INDOOR UNIT AND DISCHARGE TO TAILPIECE OR SINK. PATCH OPENINGS TO MATCH EXISTING.
8. REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL. PATCH OPENING TO MATCH EXISTING, TYP.
9. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
10. EXISTING BAROMETRIC RELIEF ASSEMBLY TO REMAIN, TYP. PROTECT FROM DAMAGE.

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APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

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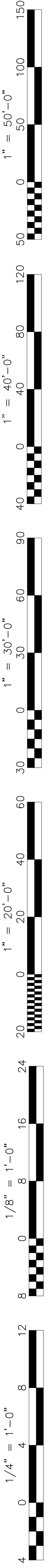
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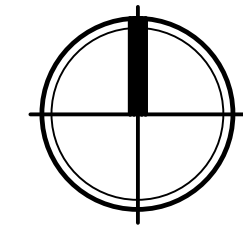
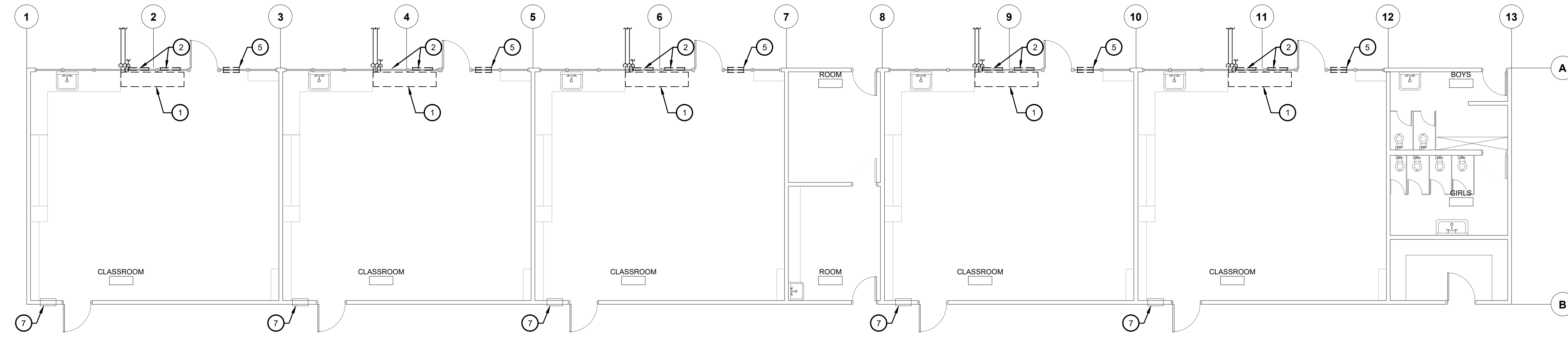


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MECHANICAL PLAN - BLDG D

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5524

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Release: **DSA SUBMITTAL** 11/28/22

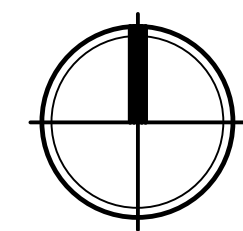
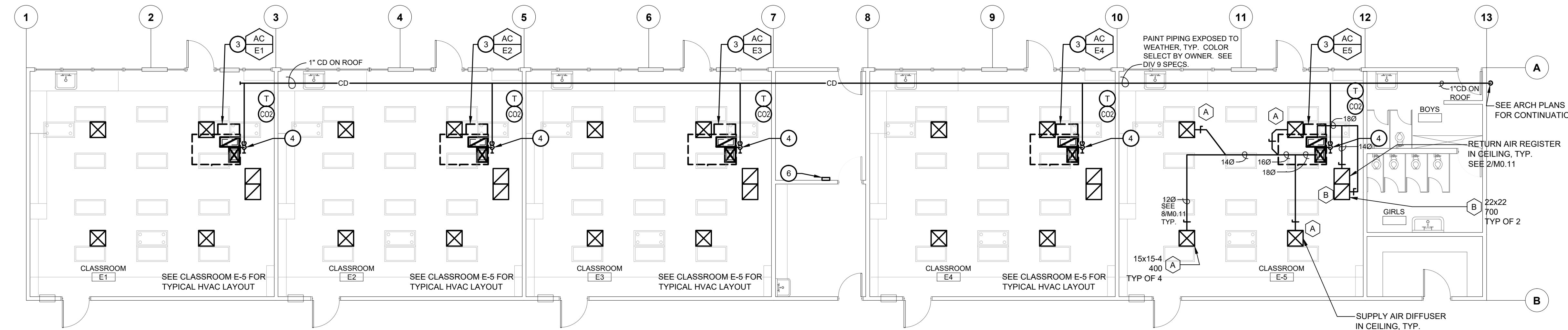




MECHANICAL PLAN - BLDG E - DEMO

HVAC REPLACEMENT

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



MECHANICAL PLAN - BLDG E - IMPROVEMENTS

HVAC REPLACEMENT

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

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND ALL RELATED COMPONENTS, ETC. TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER. REMOVE (E) PIPING TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP. TYP.
2. REMOVE EXISTING OSA LOUVER AND DUCT THRU WALL. PATCH OPENINGS TO MATCH EXISTING. TYP.
3. AC UNIT ON ROOF WITH 18x14(L) SA PLENUM AND 26x12(L) RA PLENUM DROP THRU ROOF. BETWEEN EXISTING STRUCTURAL MEMBERS. TYP. PROVIDE TRANSITIONS AS NEEDED. FIELD VERIFY EXACT LOCATION. SEE 3/MO.11
4. CONNECT 3/4" CD TO AC UNIT ON ROOF WITH TRAP PER 6/MO.11
5. REMOVE EXISTING RELIEF DAMPER LOUVER AT EXTERIOR WALL. PATCH OPENING TO MATCH EXISTING. TYP.
6. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120V WALL OUTLET.
7. EXISTING BAROMETRIC RELIEF ASSEMBLY TO REMAIN. TYP. PROTECT FROM DAMAGE.

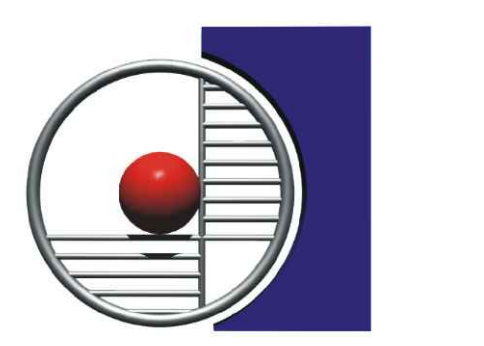
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 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93305

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309



integrated designs
 by SOMAM, Inc.

**ARCHITECTURE
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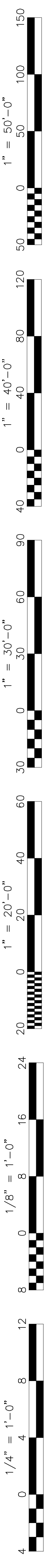
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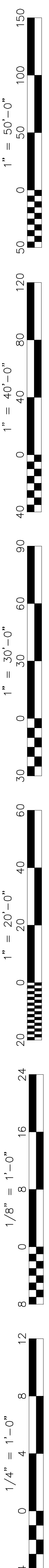


Sheet Title:
MECHANICAL PLAN - BLDG E

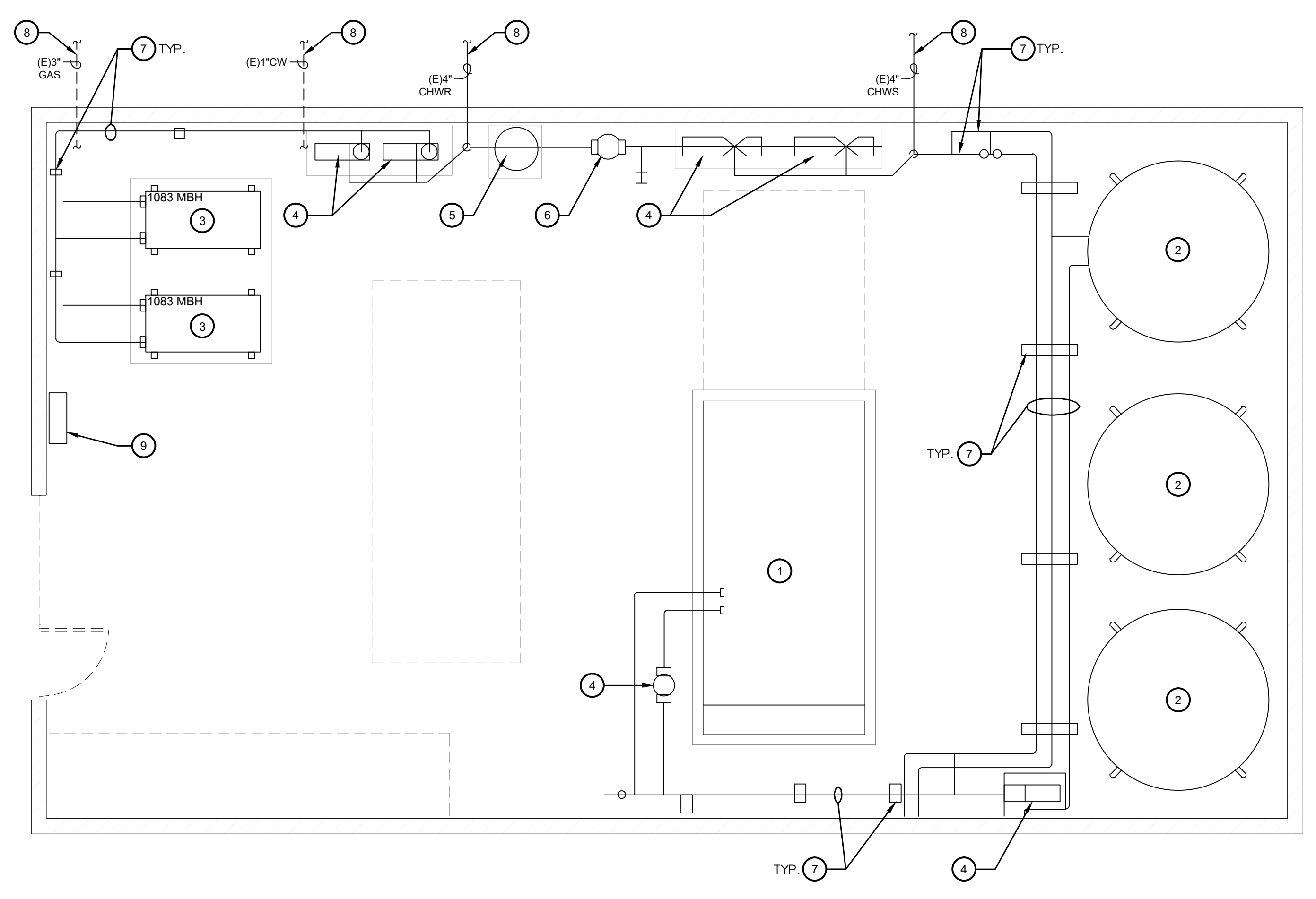
Job No.:
5524

Sheet No.:
M2.51
 Release: DSA SUBMITTAL 11/28/22





NOTE:
CENTRAL PLANT SHALL REMAIN IN OPERATION UNTIL ALL ASSOCIATED AIR HANDLING UNITS HAVE BEEN REMOVED.




 **MECHANICAL PLAN - CENTRAL PLANT**
HVAC REPLACEMENT SCALE: 1/4" = 1'-0"

KEY NOTES

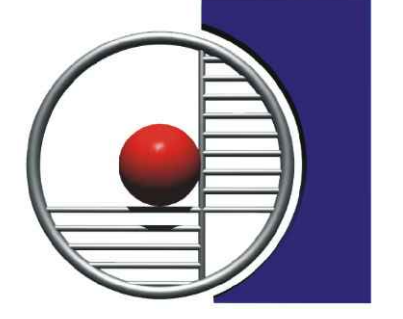
1. REMOVE EXISTING AIR COOLED CHILLER AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
2. REMOVE EXISTING ICE STORAGE TANK AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
3. REMOVE EXISTING HYDRONIC BOILER AND ALL RELATED COMPONENTS, PIPING, ETC, TYP. SALVAGE EMS CONTROLLERS AND/OR DEVICES AND DELIVER TO OWNER.
4. REMOVE EXISTING PUMP AND ALL RELATED COMPONENTS, PIPING, CONTROLS, ETC, TYP.
5. REMOVE EXISTING EXPANSION TANK AND ALL RELATED COMPONENTS, PIPING, ETC, TYP.
6. REMOVE EXISTING AIR SEPARATOR AND ALL RELATED COMPONENTS, PIPING, ETC, TYP.
7. REMOVE EXISTING PIPING AND SUPPORT, TYP.
8. REMOVE EXISTING PIPING BELOW GRADE TO 5 FEET OUTSIDE EXTERIOR WALL AND CAP. TYP. FIELD VERIFY SIZE AND LOCATION. SAWCUT AND PATCH TO MATCH EXISTING.
9. SALVAGE EXISTING HVAC CONTROL PANEL AND DELIVER TO OWNER.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
FRESNO, CA. 93706

Project Name:
HVAC REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309


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MECHANICAL PLAN - CENTRAL PLANT

Job No.: **5524**

Sheet No.: **M2.61**
Release: **DSA SUBMITTAL** 11/28/22

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2, §120.2 and prescriptive controls in §40.0(d) and (n) or requirements in §44.0(b)(2), for altered space conditioning systems.

System Name	System Zoning	Conditioned Floor Area (ft ²)	Thermostats (per §110.2(b) and §120.2(a))	Shut-Off Controls (per §110.2(b))	Isolation Zone Controls (per §110.2(b))	Demand Response Controls (per §110.2(b))	Supply Air Temp. Reset (per §110.2(b) and §120.2(b))	Window Interlocks per §44.0(b)(2)
AC-A1 to AC-A4	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-A5	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
IDU-ODU-A1	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C1	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C2	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C3	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
IDU-ODU-C1	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C4	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-C5	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-D1	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-D2	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-D3	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

A. GENERAL INFORMATION

01 Project Location (City)	Bakersfield	04 Total Conditioned Floor Area	19734
02 Climate Zone	13	05 Total Unconditioned Floor Area	
03 Occupancy Types Within Project		06 Of Staircases (Habitable Above Grade)	1
07 Office (Yes/No)	<input type="checkbox"/> Retail (M)	08 Non-refrigerated Warehouse (R)	
09 Hotel/Motel Guest Rooms (R-1)	<input type="checkbox"/> School (E)	10 Non-refrigerated Warehouse (R)	
11 High-Rise Residential (R-2/R-3)	<input type="checkbox"/> Nonretail Class Bldg (E)	12 Other (write in)	See Table J

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

I. SYSTEM CONTROLS

System Name	System Zoning	Conditioned Floor Area (ft ²)	Thermostats (per §110.2(b) and §120.2(a))	Shut-Off Controls (per §110.2(b))	Isolation Zone Controls (per §110.2(b))	Demand Response Controls (per §110.2(b))	Supply Air Temp. Reset (per §110.2(b) and §120.2(b))	Window Interlocks per §44.0(b)(2)
AC-D4	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-D5	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E1	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E2	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E3	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E4	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors
AC-E5	Single zone	≈ 25,000 ft ²	Setback	4 Hour Timer	NA: Single Zone	NA: Server temp. sensitive process	NA: Single Zone	NA: Auto-closing doors

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	1.19	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	1.19	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

C. COMPLIANCE RESULTS

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.05	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.05	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

J. VENTILATION AND INDOOR AIR QUALITY

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Space Name of Item Tag	Occupancy Type ²	Conditioned Floor Area (ft ²)	# of people ³	Required Min CMR	Required Min CMR	Provided per Design CMR	DCV or Sensor Controls per §120.1(d), §120.1(d)(5), and §120.1(d)(6)
MPR	Assembly-multuse	4013		2006.5	0	0	DCV Provided per §120.1(d)(8) NA: Not required space type
17	Total System Required Min CMR	2006.5	18	Ventilation for this System Complies?	Yes		

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

J. VENTILATION AND INDOOR AIR QUALITY

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
IDU-ODU-A1	01	02	03	04	05	06	07
Space Name of Item Tag	Occupancy Type ²	Conditioned Floor Area (ft ²)	# of people ³	Required Min CMR	Required Min CMR	Provided per Design CMR	DCV or Sensor Controls per §120.1(d), §120.1(d)(5), and §120.1(d)(6)
Lounge	All others	281		42.2	0	0	DCV Provided per §120.1(d)(8) NA: Not required space type
17	Total System Required Min CMR	42	18	Ventilation for this System Complies?	Yes		

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: Munsley Elementary School
Project Address: 3801 Brave Avenue

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

System Name	AC/CS	Economizer ¹	NA: <=54 kBtu/h cooling	Economizer Controls	Designed per §140.0(a) and (m)	System Fan Type	Constant Volume
AC-A1 to AC-A4	01	02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	1600	BHP	0.79	Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.79	Maximum System Fan Power (BHP):	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
FLS ACS
DATE: 07/27/2023

Owner: BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
FRESNO, CA. 93706

Project Name: HVAC REPLACEMENT

Project Address: MUNSLEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

integrated designs by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

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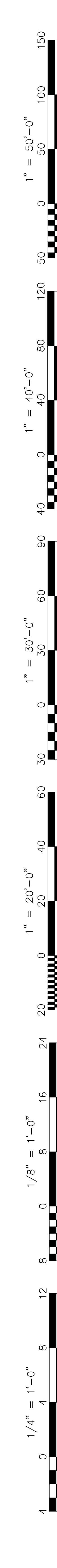
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FRESNO COUNTY REGISTERED MECHANICAL ENGINEER

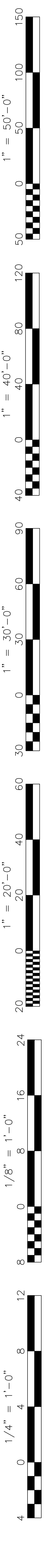
SHEET TITLE: TITLE 24 DOCS

Job No: 5524

Sheet No: M3.01

Release: DSA SUBMITTAL 11/28/22





FIXTURE SCHEDULE							
FIXTURE SYMBOL (3-A-43); 3 = CIRCUIT NUMBER, A = FIXTURE TYPE, 43 = FIXTURE WATTAGE							
TYPE	WATTS	LAMPS	VOLT	MANUFACTURER	CATALOG NO.	NOTES	WEIGHT
A	43	L.E.D.	120-277V	LITHONIA	EPAN-24-6000LPH-BOOR-10C-MN-EZT-TY01	T-BAR PER #1/E5.00	15 LBS
AE	43	L.E.D.		LITHONIA	EPAN-24-6000LPH-BOOR-10C-MN-EZT-TY01	T-BAR PER #1/E5.00 (1)	15 LBS
B	39	L.E.D.		LITHONIA	BLWP4-48HE-ADP-ET-LP84-N100	SURFACE PER #2/E5.00	10 LBS
BE	39	L.E.D.		LITHONIA	BLWP4-48HE-ADP-ET-LP84-N100-E10WLCF	SURFACE PER #2/E5.00 (1)	10 LBS
CE	39	L.E.D.		LITHONIA	BLWP4-48HE-ADP-ET-LP84-N100-E10WLCF	WALL (1), (2)	10 LBS
X	2	L.E.D.	120-277V	LITHONIA	LHQ4-LED-R-HO	SINGLE FACE EXIT SIGN/VENT LIGHT WITH EMERGENCY BATTERY PACK	(2) 5 LBS

- FIXTURE SCHEDULE NOTES:**
- LIGHT FIXTURE SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY PACK TO OPERATE THE L.E.D. DRIVER AT 10 WATTS OF CONSTANT POWER IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #3/E5.00 FOR WIRING REQUIREMENTS.
 - LIGHT FIXTURE SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY PACK TO OPERATE THE EMERGENCY LIGHTS IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #3/E5.00 FOR WIRING REQUIREMENTS.
 - SEE LIGHTING PLANS FOR MOUNTING HEIGHTS.

ELECTRICAL SYMBOLS	
ALL DIMENSIONS TO CENTER OF BOX, U.O.N.	
3-	CIRCUIT NUMBER (3-A-43)
-A-	FIXTURE TYPE (3-A-43)
-43	FIXTURE WATTAGE (3-A-43)
HOME RUN 3/4" C - MN, PANEL A, CIRCUIT #3	
CONDUIT RUN IN WALL OR ATTIC (1/2" C - 2 #12 AWG THWN + 1 #12 GND)	
CONDUIT RUN IN FLOOR OR UG (1/2" C - 2 #12 AWG THWN + 1 #12 GND)	
ANY CONDUIT RUN - 1/2" C - 3 #12 AWG THWN + 1 #12 GND	
1/2" C - 3/4" C - 4 #12 AWG THWN + 1 #12 GND	
1/2" C - 3/4" C - 5 #12 AWG THWN + 1 #12 GND	
1/2" C - 6 #12 AWG THWN + 1 #12 GND	
CONDUIT STUB - CAPPED AND LABELED	
ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET	
U.O.N.	UNLESS OTHERWISE NOTED
W.P.	WEATHERPROOF
TERMINAL CABINET (SIZE AS SHOWN)	
ELECTRICAL PANEL BOARD	
SINGLE 20A RECEPTACLE IN WALL (4 1/2" MIN. TO BOTTOM OF BOX)	
DUPLEX RECEPTACLE IN WALL (4 1/2" MIN. TO BOTTOM OF BOX)	
6 F.C.I. DUPLEX RECEPTACLE MOUNTED ON ROOF	
QUADRUPLX RECEPTACLE IN WALL (4 1/2" MIN. TO BOTTOM OF BOX)	
6 F.C.I. DUPLEX RECEPTACLE IN WALL (4 1/2" MIN. TO BOTTOM OF BOX)	
SURGE PROTECTED DUPLEX RECEPTACLE IN WALL (4 1/2" MIN. TO BOTTOM OF BOX)	
SURGE PROTECTED QUADRUPLX RECEPTACLE IN WALL (4 1/2" MIN. TO BOTTOM OF BOX)	
ENT LIGHT, WALL MOUNTED	
ENT LIGHT, CEILING MOUNTED	
WALL MOUNTED LIGHT FIXTURE (MOUNT AS SHOWN)	
LIGHT FIXTURE	
NETWORK CABLE - CATEGORY 5e CABLE, LENGTH AS REQUIRED	
LIGHT FIXTURE WITH LIGHT EMBEDDED CONTROLS	
LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK	
LIGHT SWITCH (44-0" MAX. TO TOP OF BOX, U.O.N.)	
ON/OFF SWITCH WITH RAISE LOWER DIMMING CONTROL (44-0" MAX. TO TOP OF BOX, U.O.N.)	
360° OCCUPANCY SENSOR (DUAL TECHNOLOGY), CEILING MOUNTED	
OCCUPANCY SENSOR WALL SWITCH, LOW VOLTAGE (44-0" MAX. TO TOP OF BOX, U.O.N.)	
ON/OFF SWITCH (44-0" MAX. TO TOP OF BOX, U.O.N.)	
ON/OFF DIGITAL KEYSWITCH (44-0" MAX. TO TOP OF BOX, U.O.N.)	
JUNCTION BOX EQUIPPED WITH BLANK COVER	
JUNCTION BOX EQUIPPED WITH BLANK COVER AND FLEX CONNECTION	
COMBINATION HEAVY-DUTY FUSED SAFETY SWITCH/MAGNETIC STARTER	
MOTOR	
HEAVY-DUTY FUSED SAFETY SWITCH	
SMOKE DETECTOR MOUNTED ON CEILING	
HEAT DETECTOR, MOUNTED IN ATTIC	
ADDRESSABLE MONITOR MODULE	
ADDRESSABLE DUAL MONITOR MODULE	
CONTROL RELAY	
DUCT DETECTOR	
V 15	FIRE ALARM VISUAL STROBE/15 CANDELA (WALL MOUNTED)
V 30	FIRE ALARM VISUAL STROBE/30 CANDELA (WALL MOUNTED)
V 75	FIRE ALARM VISUAL STROBE/75 CANDELA (WALL MOUNTED)
S 15	FIRE ALARM SPEAKER/30 CANDELA VISUAL STROBE (WALL MOUNTED)
S 75	FIRE ALARM SPEAKER/75 CANDELA VISUAL STROBE (WALL MOUNTED)
SP W.P.	FIRE ALARM EXTERIOR SPEAKER IN WALL
W.F.	WATERFLOW SWITCH AT FIRE SPRINKLER RISER
TS	TAMPER SWITCH AT FIRE DEPT. CONNECTION F.D.C.
⊙	ELECTRIC BELL (FOR FIRE SPRINKLER RISER)
E	SUBSCRIPT DENOTES EXISTING SHALL REMAIN
R	SUBSCRIPT DENOTES EXISTING SHALL BE REMOVED
-ER-	DENOTES EXISTING BRANCH CIRCUITING/HOMERUN TO BE REMOVED

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL, AND PLUMBING ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 120/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACINGS AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACINGS AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g. GSPHD OPH FOR 2019 CBC OR LATER) COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

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

MP ○ MD ○ PP ○ E ○ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OP#16) BOOKS.

ELECTRICAL SYMBOLS NOTES:

(A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #3/E3.22 FOR RESPECTIVE MOUNTING HEIGHTS.

(B) AT EXTERIOR LOCATIONS, PROVIDE WEATHER-RESISTANT TYPE 6 F.C.I. DUPLEX RECEPTACLES, LEVITON #55362-WV OR EQUAL. AT DAMP LOCATIONS, PROVIDE A DECAST WEATHERPROOF LOCKABLE COVER, RACO #5028-0 OR EQUAL. AT WET LOCATIONS, PROVIDE A DECAST WEATHERPROOF WHILE-IN-USE LOCKABLE COVER, RED DOT #KLSUV OR EQUAL.

(C) REFER TO FIRE ALARM PLAN, SHEET #E3.20 FOR DEVICE INFORMATION.

(D) ACUITY CONTROLS #HPD-KEY-WH. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(E) ACUITY CONTROLS #HPD-MA-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(F) ACUITY CONTROLS #HWSX-PDT-LV-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

(G) RESERVED.

(H) ACUITY CONTROLS #CAT 5e - J1 OR EQUAL. * ASTERISK INDICATES LENGTH OF CABLE. CABLES ARE AVAILABLE IN 6', 1', 2', 5', 10', 15', 30', AND 50' LENGTHS.

(I) *LIGHT* ENABLED LIGHT FIXTURE PER FIXTURE SCHEDULE ON SHEET #E0.01.

(K) ACUITY CONTROLS #HVS0-PDT-WH OR EQUAL. PROVIDE DECORATOR STYLE STAINLESS STEEL WALLPLATE.

TITLE 24, PART 6

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DEREQUIRED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THE REQUIREMENT SHALL GOVERN.

DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARDS

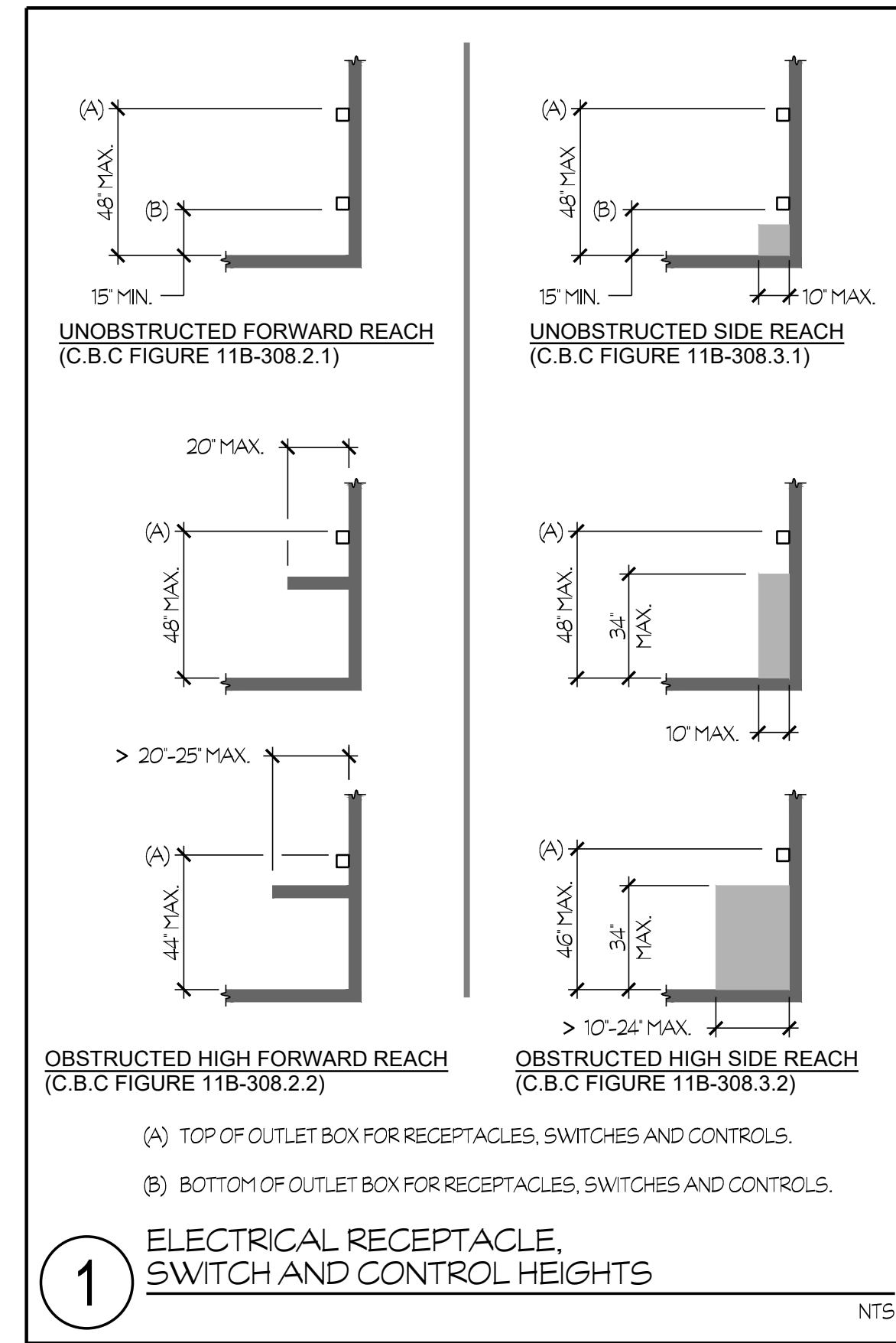
CODES:

- 2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2019 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2 WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2019 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R.

TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

STANDARDS AND GUIDES:

- NFPA 72 - NATIONAL FIRE ALARM CODE, 2016 EDITION (CALIFORNIA AMENDED)
- NFPA 720 - CARBON MONOXIDE STANDARDS FOR INSTALLATION, DETECTION AND WARNING EQUIPMENT
- ADAAG - AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES
- UL 38 - MANUAL ACTUATED SIGNALING BOXES, 2008 EDITION
- UL 268 - SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2016 EDITION
- UL 268A - SMOKE DETECTORS FOR DUCT APPLICATIONS, 2008 EDITION
- UL 464 - AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
- UL 521 - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION (WITH REVISIONS THROUGH JULY 2005)
- UL 864 - CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2014 EDITION



GENERAL NOTE

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: <https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance>.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND PENALTIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunwoody - (559) 733-2671
Visalia, California 93292-6705

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023

Owner:
BCSD
BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

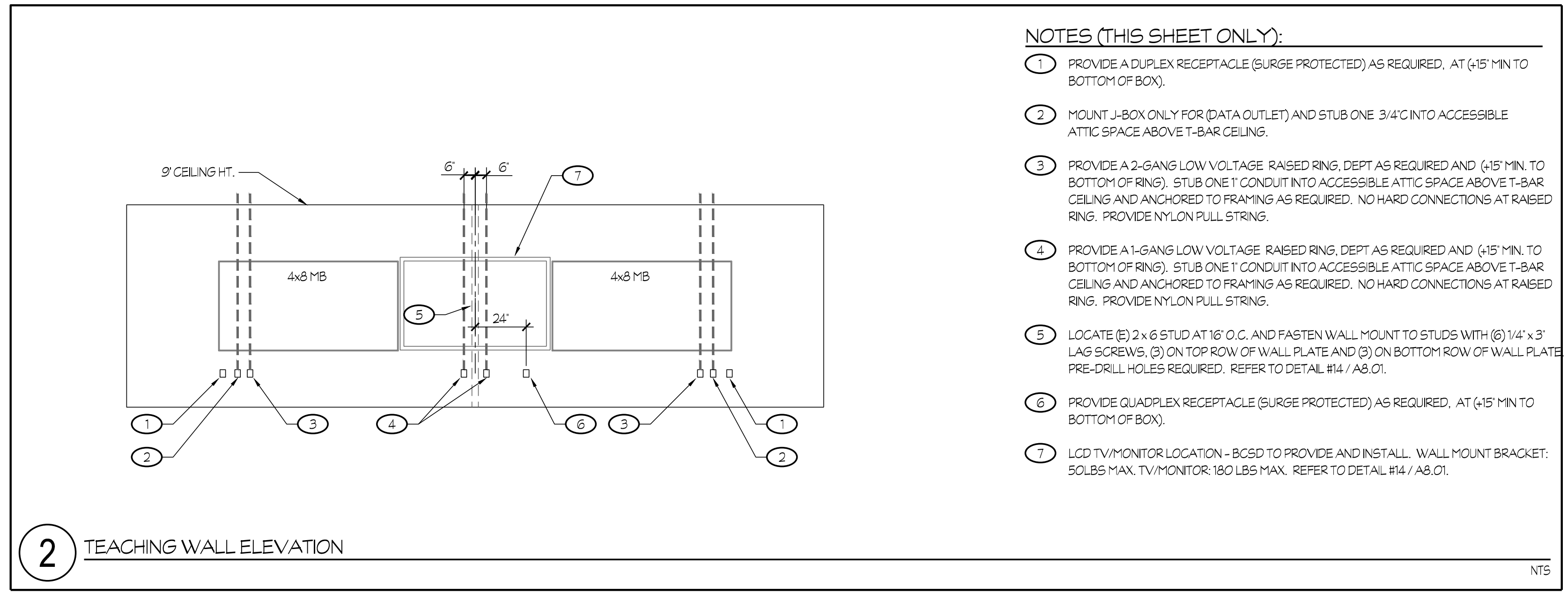
integrated designs
by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN
6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P: (559) 436-0881 F: (559) 436-0887
E: design@somam.com
integrateddesigns.com

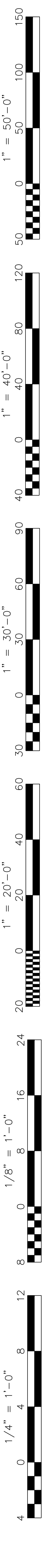
Sheet Title:
CODES, NOTES SYMBOLS & FIXTURE SCHED.

Job No.: **5524**

Sheet No.: **E0.01**

Release: DSA BACKCHECK Issue Date: 06-14-2023





STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

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

Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 1 of 7
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 8-26-2022

A. GENERAL INFORMATION

01 Project Location (City): BAKERSFIELD 04 Total Conditioned Floor Area (ft²): 17,000
 02 Climate Zone: 13 05 Total Unconditioned Floor Area (ft²):
 03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade):
 Office Retail Warehouse Hotel/Motel School Support Areas
 Parking Garage High-Rise Residential Relocatable Healthcare Other (write in):

B. PROJECT SCOPE

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

Scope of Work	Conditioned Spaces	Unconditioned Spaces
	02	04
	Calculation Method	Calculation Method
	Area (ft ²)	Area (ft ²)
<input checked="" type="checkbox"/> New Lighting System	Area Category	Area Category
	17,000	
<input type="checkbox"/> Altered Lighting System		
Total Area of Work (ft²)	17,000	

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)				05	Adjusted Lighting Power per §140.6(a) (Watts)			Compliance Results
	01	02	03	04		06	07	08	
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	Total Allowed (Watts)	Total Designed (Watts)	PAF Control Credits §140.6(a)2 (-)	Total Adjusted (Watts) Includes Adjustments	05 Must be ≥ 08 §140.6
Conditioned:	(See Table I)	(See Table J)	(See Table J)	(See Table K)	11,742.25	9,231	1	9,231	COMPLIES
Unconditioned:									

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 2 of 7
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 8-26-2022

Controls Compliance (See Table H for Details) **COMPLIES**
Rated Power Reduction Compliance (See Table Q for Details) **Not Applicable**

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

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

Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change!	Watts per luminaire ²	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts (Watts)	Field Inspector	
									Pass	Fail
A, AE	LED EDGE-LIT FLAT PANEL	<input type="checkbox"/>	<input type="checkbox"/>	43	Mfr. Spec ²	192	<input type="checkbox"/>	8,256	<input type="checkbox"/>	<input type="checkbox"/>
B, BE	LED WRAP	<input type="checkbox"/>	<input type="checkbox"/>	39	Mfr. Spec ²	24	<input type="checkbox"/>	936	<input type="checkbox"/>	<input type="checkbox"/>
CE	LED WRAP WALL BRACKET	<input type="checkbox"/>	<input type="checkbox"/>	39	Mfr. Spec ²	1	<input type="checkbox"/>	39	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts CONDITIONED SPACES:								9,231		

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
 This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 3 of 7
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 8-26-2022

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

Building Level Controls

01	02	03
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector
		Pass Fail
		<input type="checkbox"/> <input type="checkbox"/>

Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylight Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector
		Manual ON/OFF	Dimmer	Occ. Sensor	Included	Included		Pass Fail
CLASSROOMS	Classroom, Lecture, Training, Vocational	Manual ON/OFF	Dimmer	Occ. Sensor	Included	Included		<input type="checkbox"/> <input type="checkbox"/>
RESTROOMS	Restroom	Manual ON/OFF	Dimmer	Occ. Sensor	NA	NA		<input type="checkbox"/> <input type="checkbox"/>
STORAGE	Commercial and Industrial Storage	Manual ON/OFF	Dimmer	Occ. Sensor	Included	Included		<input type="checkbox"/> <input type="checkbox"/>
LOUNGE	Lounge	Manual ON/OFF	Dimmer	Occ. Sensor	Included	Included		<input type="checkbox"/> <input type="checkbox"/>

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
 EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting;
 EXCEPTION 1 to §130.11(d)2

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

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment Area Category PAF

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 4 of 7
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 8-26-2022

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment Area Category PAF
CLASSROOMS	Classroom, Lecture, Training, Vocational	0.7	14,460	10,122	<input type="checkbox"/> <input type="checkbox"/>
RESTROOMS	Restroom	0.65	1,185	770.25	<input type="checkbox"/> <input type="checkbox"/>
STORAGE	Commercial and Industrial Storage	0.6	615	369	<input type="checkbox"/> <input type="checkbox"/>
LOUNGE	Lounge	0.65	740	481	<input type="checkbox"/> <input type="checkbox"/>
TOTAL:			17,000	11,742.25	See Tables J or P for detail

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
 This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
 This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
 This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
 This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
 This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
 This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
 This Section Does Not Apply

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 5 of 7
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 8-26-2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
 This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS
 This Section Does Not Apply

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

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

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

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 6 of 7
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 8-26-2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

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

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 7 of 7
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 8-26-2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: STEVEN EASTHAM Documentation Author Signature:

Company: ROSE SING EASTHAM AND ASSOCIATES Signature Date: 08-26-2022
 Address: 131 SOUTH DUNNORTH STREET
 City/State/Zip: VISALIA, CA 93292-6705 Phone: (559)733-2671 EXT. 101

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: STEVEN EASTHAM Responsible Designer Signature:

Company: ROSE SING EASTHAM AND ASSOCIATES Date Signed: 08-26-2022
 Address: 131 SOUTH DUNNORTH STREET License: E18786
 City/State/Zip: VISALIA, CA 93292-6705 Phone: (559)733-2671 EXT. 101

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

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309

by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
 FRESNO CALIFORNIA 93710
 P: (559) 436-0881 F: (559) 436-0887
 E: design@somam.com integrateddesigns.com

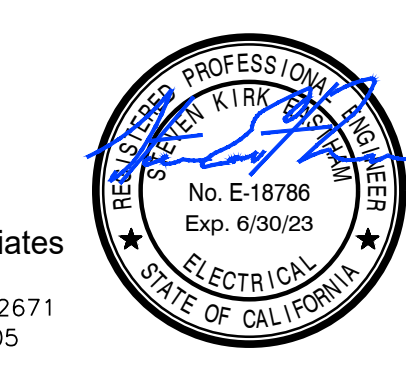
Stamp:

Sheet Title:
INDOOR LIGHTING COMPLIANCE

Job No.: **5524**

Sheet No.: **E0.02**

Release: DSA BACKCHECK Issue Date: 06-14-2023



Rose Sing Eastham & Associates
 Electrical Consultants
 131 S. Dunworth - (559)733-2671
 Visalia, California 93292-6705

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION NRCC-ELC-E

CERTIFICATE OF COMPLIANCE
 This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.002 or §141.002(b) for alterations.

Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 1 of 6
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 08-26-2022

A. GENERAL INFORMATION

01 Project Location (city): BAKERSFIELD 02 Occupancy Types Within Project:
 Office Retail Warehouse Hotel/ Motel School Support Areas
 Parking Garage High-Rise Residential Relocatable Healthcare Facilities Other (Write In):

B. PROJECT SCOPE
 Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)
MSB2	New electrical service equipment & meter	997	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DSA	Add/Alt to feeders and branch circuits only		<input type="checkbox"/>	<input type="checkbox"/>
DSC	Add/Alt to feeders and branch circuits only		<input type="checkbox"/>	<input type="checkbox"/>
DSD	Add/Alt to feeders and branch circuits only		<input type="checkbox"/>	<input type="checkbox"/>
DSE	Add/Alt to feeders and branch circuits only		<input type="checkbox"/>	<input type="checkbox"/>
PC1	Add/Alt to feeders and branch circuits only		<input type="checkbox"/>	<input type="checkbox"/>
PD1	Add/Alt to feeders and branch circuits only		<input type="checkbox"/>	<input type="checkbox"/>

Table Continued

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION NRCC-ELC-E

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 This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.002 or §141.002(b) for alterations.

Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 3 of 6
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 08-26-2022

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

F. SERVICE ELECTRICAL METERING
 This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING
 Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description:

01	02	03	04	05
Load Type per Table 130.5-B ¹	Minimum Required Separation of Load per Table 130.5-B	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 3	E4.01	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 3	E4.02	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Plug Loads and appliances < 25kVA	All plug load separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 3	E4.02	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

* NOTES: If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

H. VOLTAGE DROP

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION NRCC-ELC-E

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Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 5 of 6
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 08-26-2022

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 There are no Certificates of Acceptance applicable to electrical power distribution requirements.

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

Documentation Author Name: STEVEN EASTHAM Documentation Author Signature:

Company: ROSE SING EASTHAM AND ASSOCIATES Signature Date: 08-26-2022
 Address: 131 SOUTH DUNWORTH STREET CEA/ HERS Certification Identification (if applicable):
 City/State/Zip: VISALIA, CA 93292-6705 Phone: (559) 733-2671 EXT. 101

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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Responsible Designer Name: STEVEN EASTHAM Responsible Designer Signature:

Company: ROSE SING EASTHAM AND ASSOCIATES Date Signed: 08-26-2022
 Address: 131 SOUTH DUNWORTH STREET License: E18786
 City/State/Zip: VISALIA, CA 93292-6705 Phone: (559) 733-2671 EXT. 101

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION NRCC-ELC-E

CERTIFICATE OF COMPLIANCE
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Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 2 of 6
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 08-26-2022

C. COMPLIANCE RESULTS
 Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D for guidance and review the Table that indicates "No".

01	02	03	04	05
Service Electrical Metering §130.5(a)	Separation for Monitoring §130.5(b)	Voltage Drop §130.5(c)	Controlled Receptacles §130.5(d)	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	COMPLIES with Exceptional Conditions

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

Table B indicates the project is exempt from §130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

Table Continued

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION NRCC-ELC-E

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Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 4 of 6
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 08-26-2022

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES
 Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06
Room Name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector
	N/A: No applicable space types on this service		<input type="checkbox"/>	Add Row	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

* If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

YES	NO	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-ELC-01-E - Must be submitted for all buildings.	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION NRCC-ELC-E

CERTIFICATE OF COMPLIANCE
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Project Name: MUNSEY ELEMENTARY SCHOOL - CENTRAL PLANT REPLACEMENT Report Page: Page 6 of 6
 Project Address: 3801 BRAVE AVENUE BAKERSFIELD, CA 93309 Date Prepared: 08-26-2022

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

Responsible Designer Name: STEVEN EASTHAM Responsible Designer Signature:

Company: ROSE SING EASTHAM AND ASSOCIATES Date Signed: 08-26-2022
 Address: 131 SOUTH DUNWORTH STREET License: E18786
 City/State/Zip: VISALIA, CA 93292-6705 Phone: (559) 733-2671 EXT. 101

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

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC:
 REVIEWER FOR:
 SS FLS ACS
 DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309

by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
 FRESNO CALIFORNIA 93710
 P:(559) 436-0881 F:(559) 436-0887
 E: design@somam.com
 integrateddesigns.com

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Stamp:

Sheet Title:
POWER ELECTRICAL DISTRIBUTION

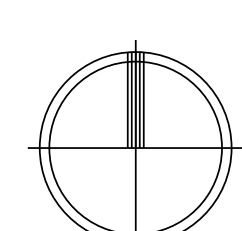
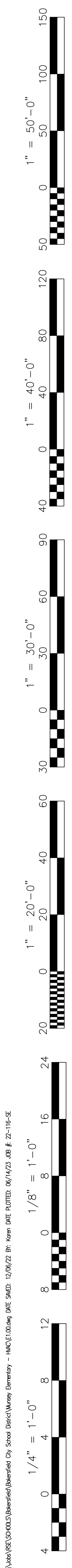
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Sheet No.: **E0.03**

Release: DSA BACKCHECK Issue Date: 06-14-2023

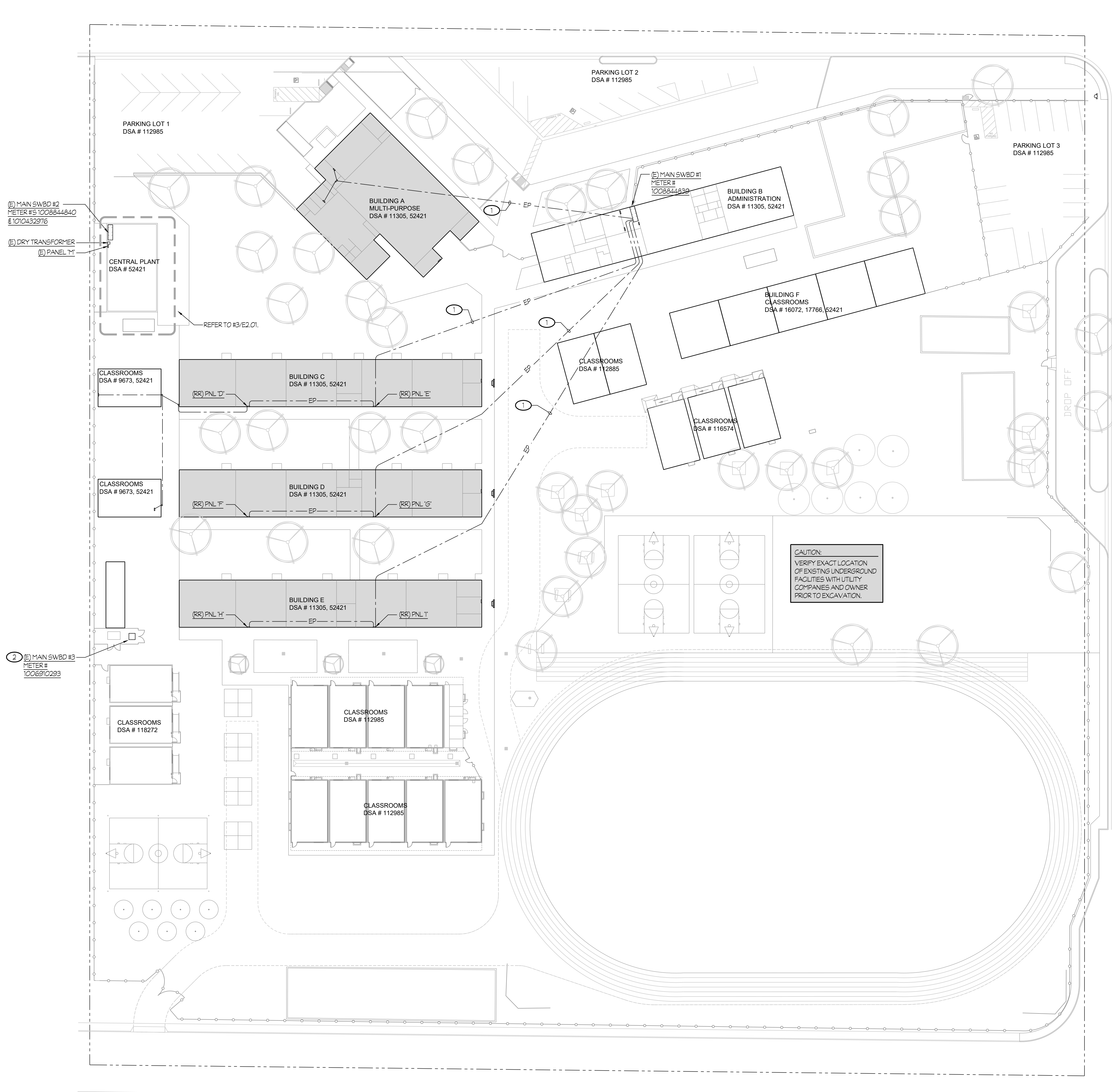
Rose Sing Eastham & Associates
 Electrical Consultants
 131 S. Dunwoorth - (559)733-2671
 Visalia, California 93292-6705





SITE ELECTRICAL PLAN - DEMOLITION
CENTRAL PLANT REPLACEMENT

SCALE: 1" = 30'-0"



CAUTION:
 VERIFY EXACT LOCATION
 OF EXISTING UNDERGROUND
 FACILITIES WITH UTILITY
 COMPANIES AND OWNER
 PRIOR TO EXCAVATION.


NOTES (THIS SHEET ONLY):

- 1 REMOVE CONDUCTORS TO SOURCE OF SUPPLY. CONDUIT SHALL BE MADE SAFE AND ABANDONED.
- 2 EXISTING MAIN SWITCHBOARD #3 SHOWN FOR REFERENCE ONLY. NO WORK REQUIRED.

GENERAL NOTE:

CONTRACTOR SHALL SURVEY ALL UNDERGROUND ROUTES FOR EXISTING UTILITIES.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309


integrated designs
 by SOMAM, Inc.

**ARCHITECTURE
 ENGINEERING
 INTERIOR DESIGN**
 6011 N. FRESNO STREET, SUITE 130
 FRESNO CALIFORNIA 93710
 P:(559) 436-0881 F:(559) 436-0887
 E: design@somam.com
 integrateddesigns.com

Ownership of Documents
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Stamp:

Sheet Title:
SITE ELECTRICAL PLAN - DEMOLITION

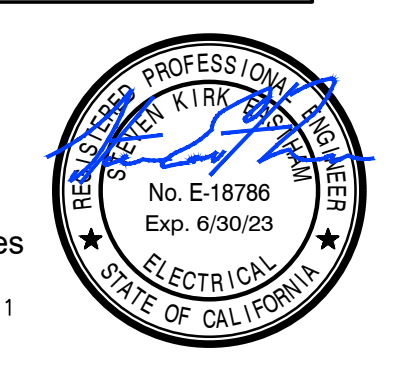
Job No.:
5524

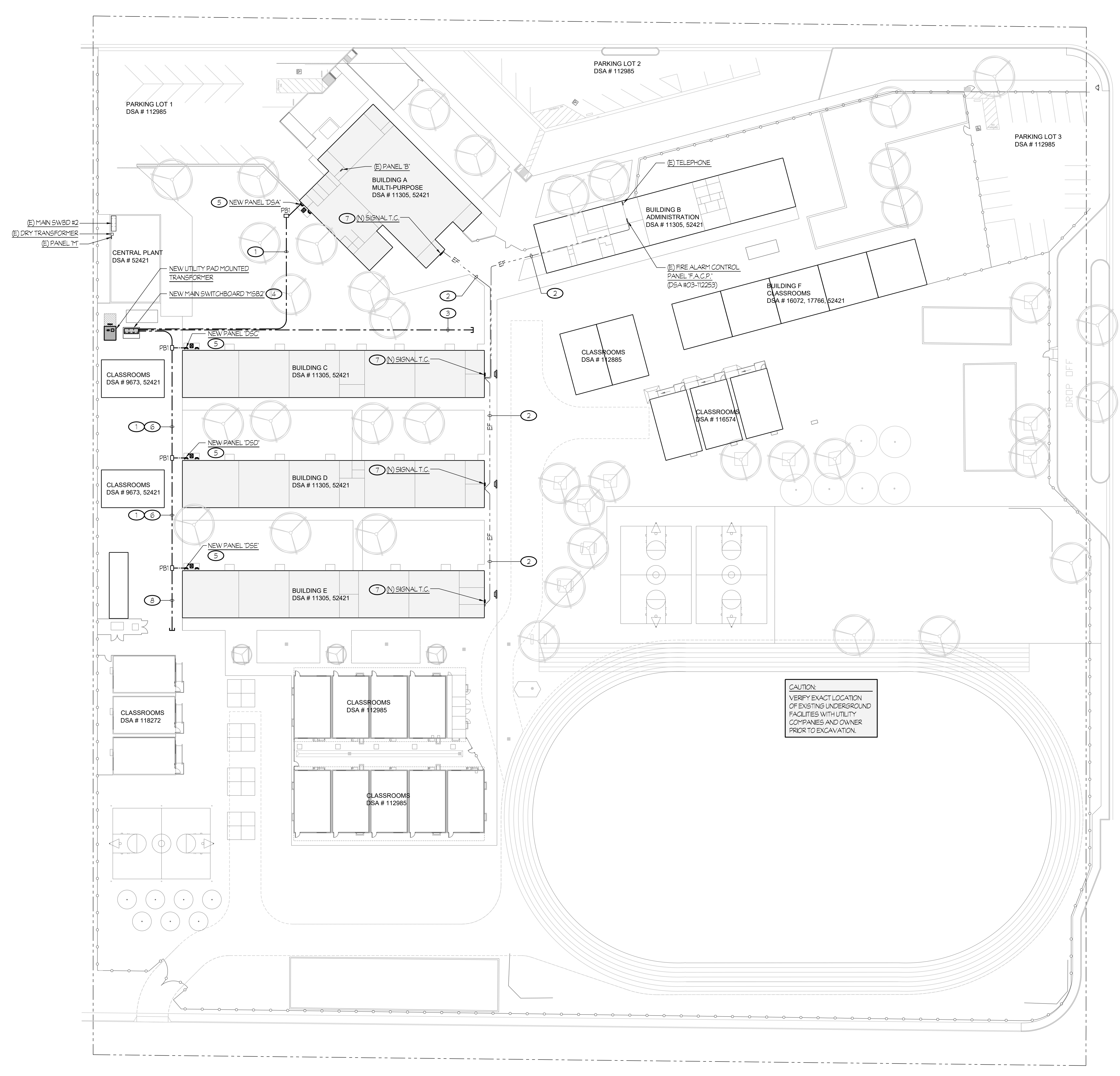
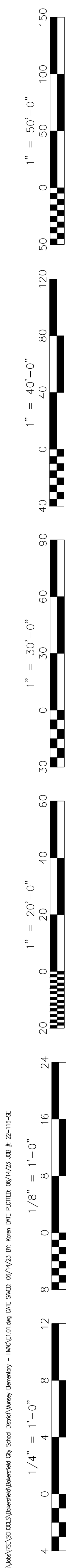
Sheet No.:
E1.00

Release: DSA BACKCHECK Issue Date: 06-14-2023

 **EQUIPMENT BID PACKAGE**
 12/5/22

Rose Sing Eastham & Associates
 Electrical Consultants
 131 S. Dunwoorth - (559) 733-2671
 Visalia, California 93292-6705



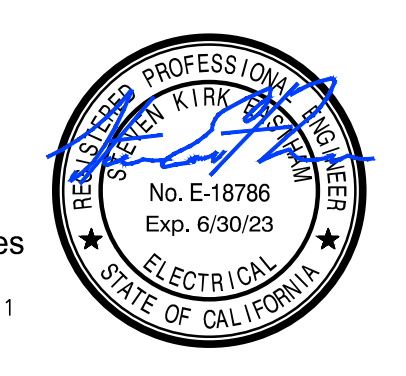


- NOTES (THIS SHEET ONLY):**
- 1 PROVIDE NEW CONDUIT AND CONNECTORS PER ONE LINE DIAGRAM, SHEET #E4.01.
 - 2 PROVIDE NEW FIRE ALARM CABLES PER RISER DIAGRAM, SHEET #E3.01.
 - 3 STUBOUT TO PICK-UP EXISTING OLD SERVICE IN FUTURE PER ONE LINE DIAGRAM, SHEET #E4.01.
 - 4 REFER TO DETAIL #7/E5.00 FOR MOUNTING REQUIREMENTS.
 - 5 REFER TO DETAIL #9/E5.00 FOR MOUNTING REQUIREMENTS.
 - 6 REFER TO TRENCH DETAIL #4/E5.00 FOR REQUIREMENTS.
 - 7 REFER TO DETAIL #6/E5.22 FOR MOUNTING REQUIREMENTS.
 - 8 STUBOUT FOR FUTURE PORTABLES, REFER TO ONE LINE DIAGRAM, SHEET #E4.01.


SITE ELECTRICAL PLAN
CENTRAL PLANT REPLACEMENT

SCALE: 1" = 30'-0"

Rose Sing Eastham & Associates
 Electrical Consultants
 131 S. Sunworth - (559) 733-2671
 Visalia, California 93292-6705



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309


integrated designs
 by SOMAM, Inc.

**ARCHITECTURE
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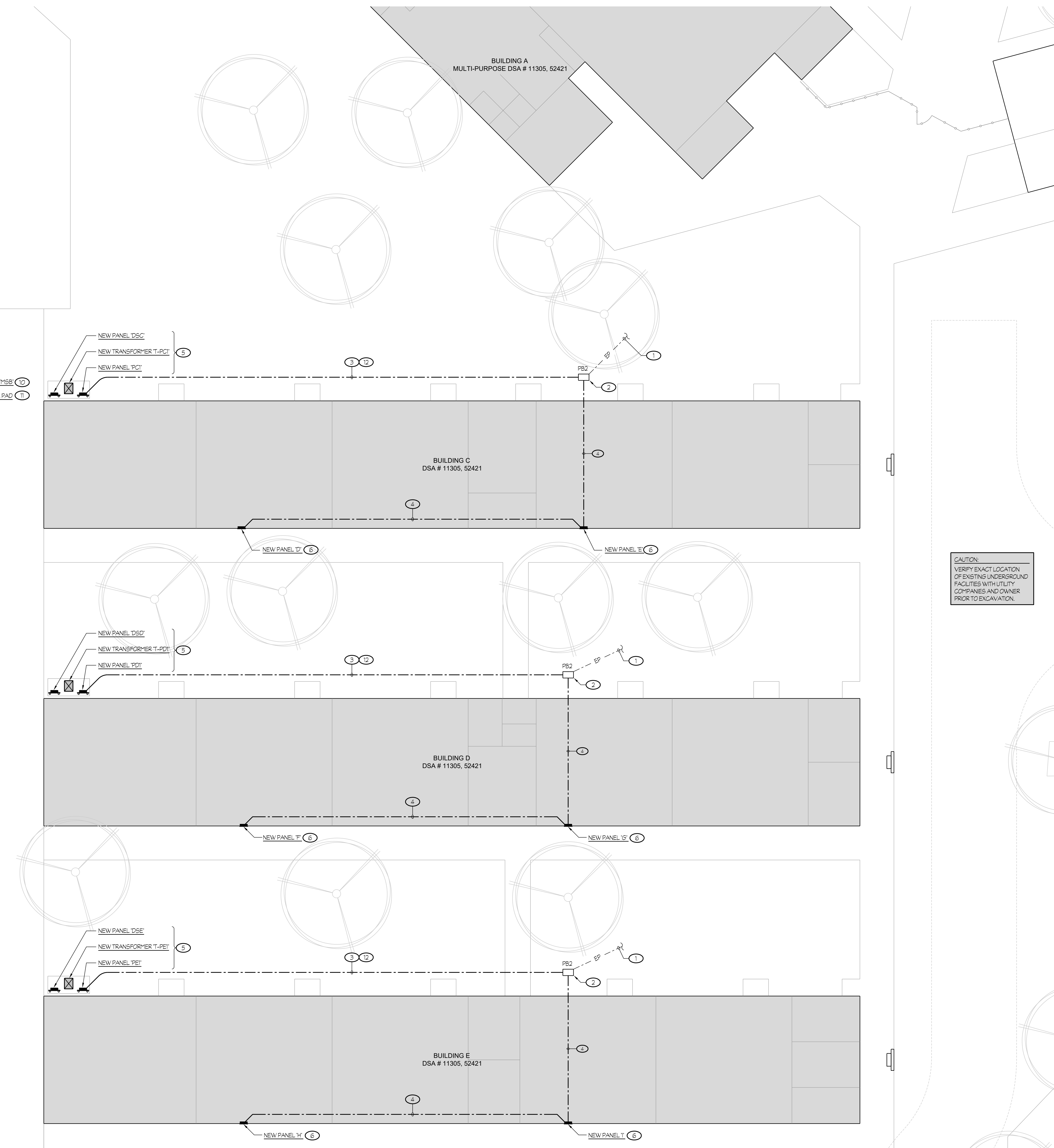
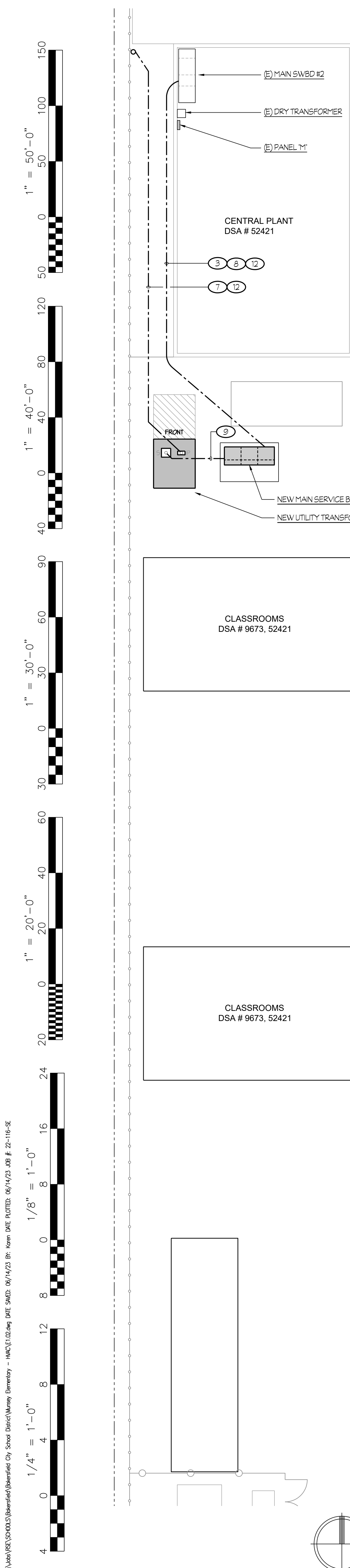
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Sheet Title:
SITE ELECTRICAL PLAN

Job No.:
5524

Sheet No.:
E1.01

Release: DSA BACKCHECK Issue Date: 06-14-2023



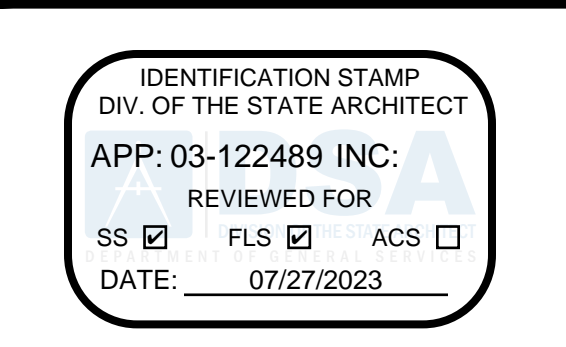
- NOTES (THIS SHEET ONLY):**
- 1 EXISTING CONDUIT SHALL BE ABANDONED IN PLACE.
 - 2 INTERCEPT EXISTING CONDUIT WITH NEW PULL BOX, PER DETAIL #5/ES.00.
 - 3 NEW CONDUIT AND CONDUCTORS PER ONE LINE DIAGRAM, SHEET #E4.01.
 - 4 EXISTING CONDUIT, NEW CONDUCTORS PER ONE LINE DIAGRAM, SHEET #E4.01.
 - 5 REFER TO DETAIL #9/ES.00 FOR MOUNTING REQUIREMENTS.
 - 6 REFER TO DETAIL #6/ES.00 FOR MOUNTING REQUIREMENTS.
 - 7 PROVIDE NEW CONDUIT PER APPROVED UTILITY DRAWINGS EXPECTED TO BE (2) 4" CONDUIT.
 - 8 PROVIDE TEMPORARY CONNECTION TO CHILLER SECTION FOR OPERATION OF EQUIPMENT DURING CONSTRUCTION PHASES. CONNECTION SHALL BE REMOVED AT END OF PROJECT.
 - 9 PROVIDE NEW CONDUIT PER APPROVED UTILITY DRAWINGS EXPECTED TO BE (2) 4" CONDUITS.
 - 10 REFER TO DETAIL #7/ES.00 FOR INSTALLATION REQUIREMENTS.
 - 11 PROVIDE PAD PER PG&E STYLE IE PER PG&E STANDARD 8045292 TO BE VERIFIED WITH APPROVED UTILITY DRAWINGS. REFER TO DETAIL #2 / ES.01.
 - 12 REFER TO DETAIL #4/ES.00 FOR TRENCH REQUIREMENTS.

CAUTION:
VERIFY EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES WITH UTILITY COMPANIES AND OWNER PRIOR TO EXCAVATION.

ENLARGED SITE ELECTRICAL PLAN
CENTRAL PLANT REPLACEMENT

SCALE: 1" = 10'-0"

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Electrical Consultants
131 S. Dunwoorth - (559)733-2671
Visalia, California 93292-6705



Owner:
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309



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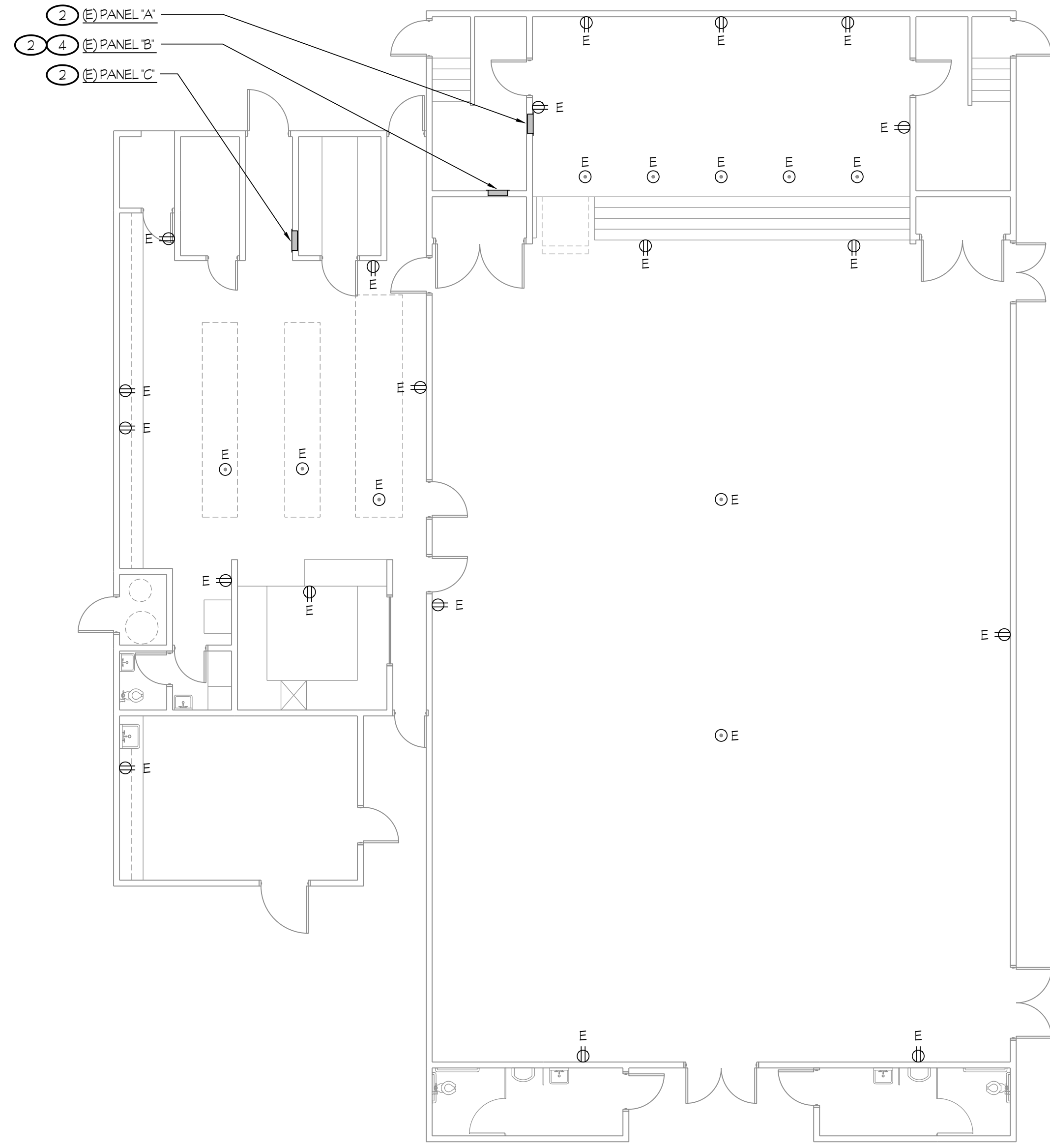
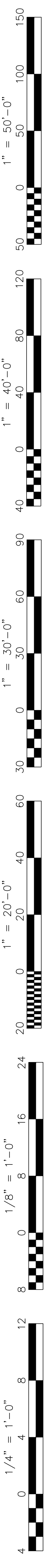
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Sheet Title:
ENLARGED SITE ELECTRICAL PLAN

Job No.: **5524**

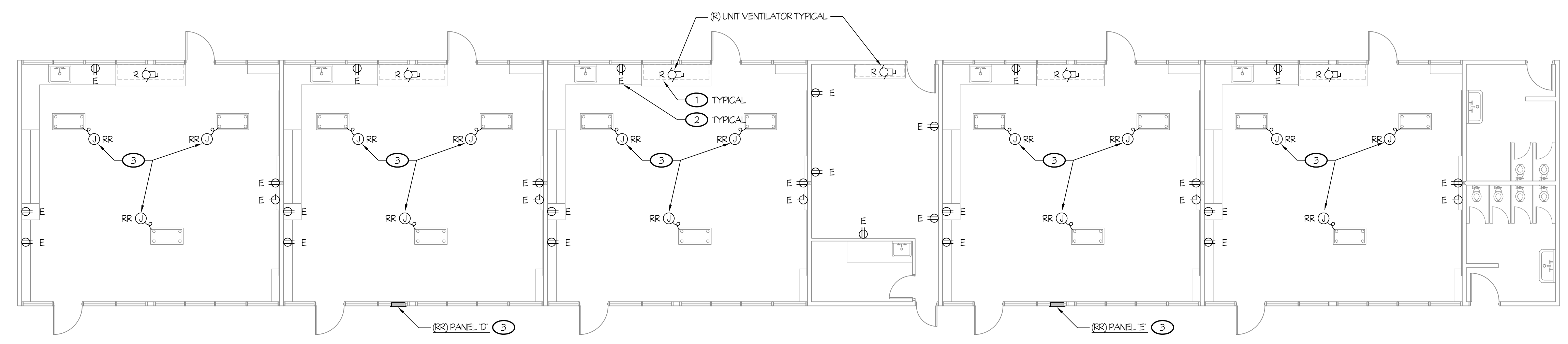
Sheet No.: **E1.02**

Release: DSA BACKCHECK Issue Date: 06-14-2023



1 **DEMOLITION POWER PLAN - BUILDING "A"**
CENTRAL PLANT REPLACEMENT

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



2 **DEMOLITION POWER PLAN - BUILDING "C"**
CENTRAL PLANT REPLACEMENT

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

NOTES (THIS SHEET ONLY):

- 1 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'R', DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N.
- 2 TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'E', U.O.N., EXISTING DEVICE TO REMAIN, RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.
- 3 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'RR' REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION, ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.
- 4 EXISTING FEED TO PANEL 'B' SHALL BE DISCONNECTED AND REMOVED, PROVIDE NEW FEED PER ONE LINE DIAGRAM ON E4.01.

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APP: 03-122489 INC.
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SS FLS ACS
DATE: 07/27/2023

Owner:
BCSD
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

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Sheet Title:
DEMOLITION POWER PLANS BUILDINGS "A & C"

Job No.: **5524**

Sheet No.: **E2.00**

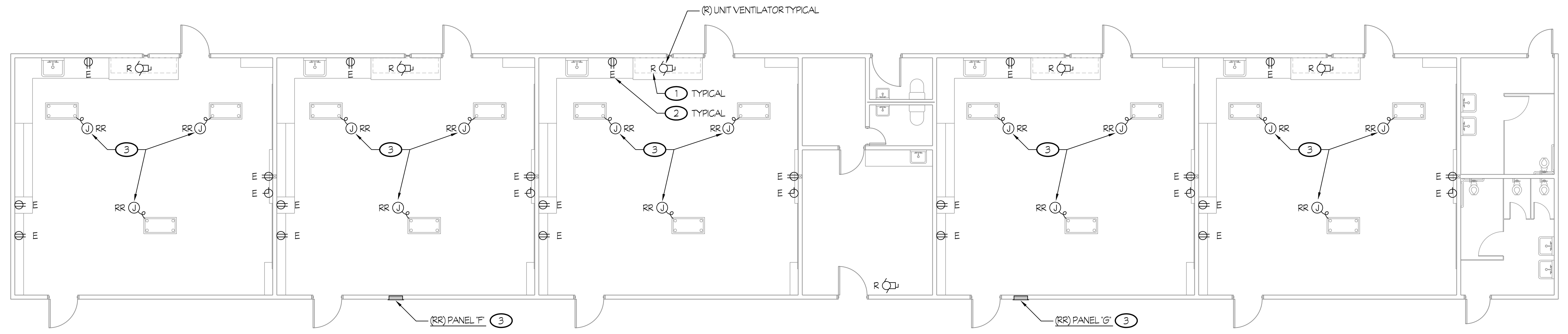
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Electrical Consultants
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Visalia, California 93292-6705



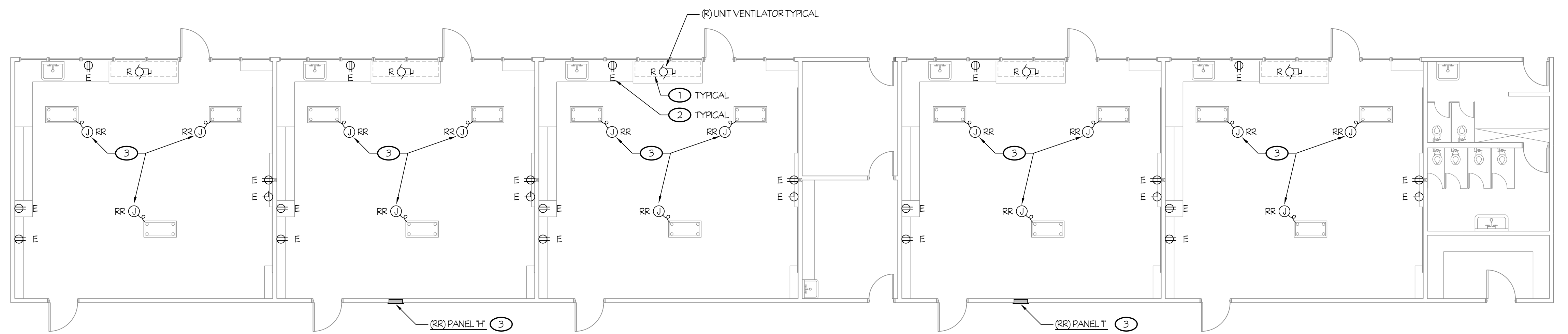
NOTES (THIS SHEET ONLY):

- 1 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'R'. DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE. U.O.N.
- 2 TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'E', U.O.N. EXISTING DEVICE TO REMAIN. RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.
- 3 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'RR' REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.



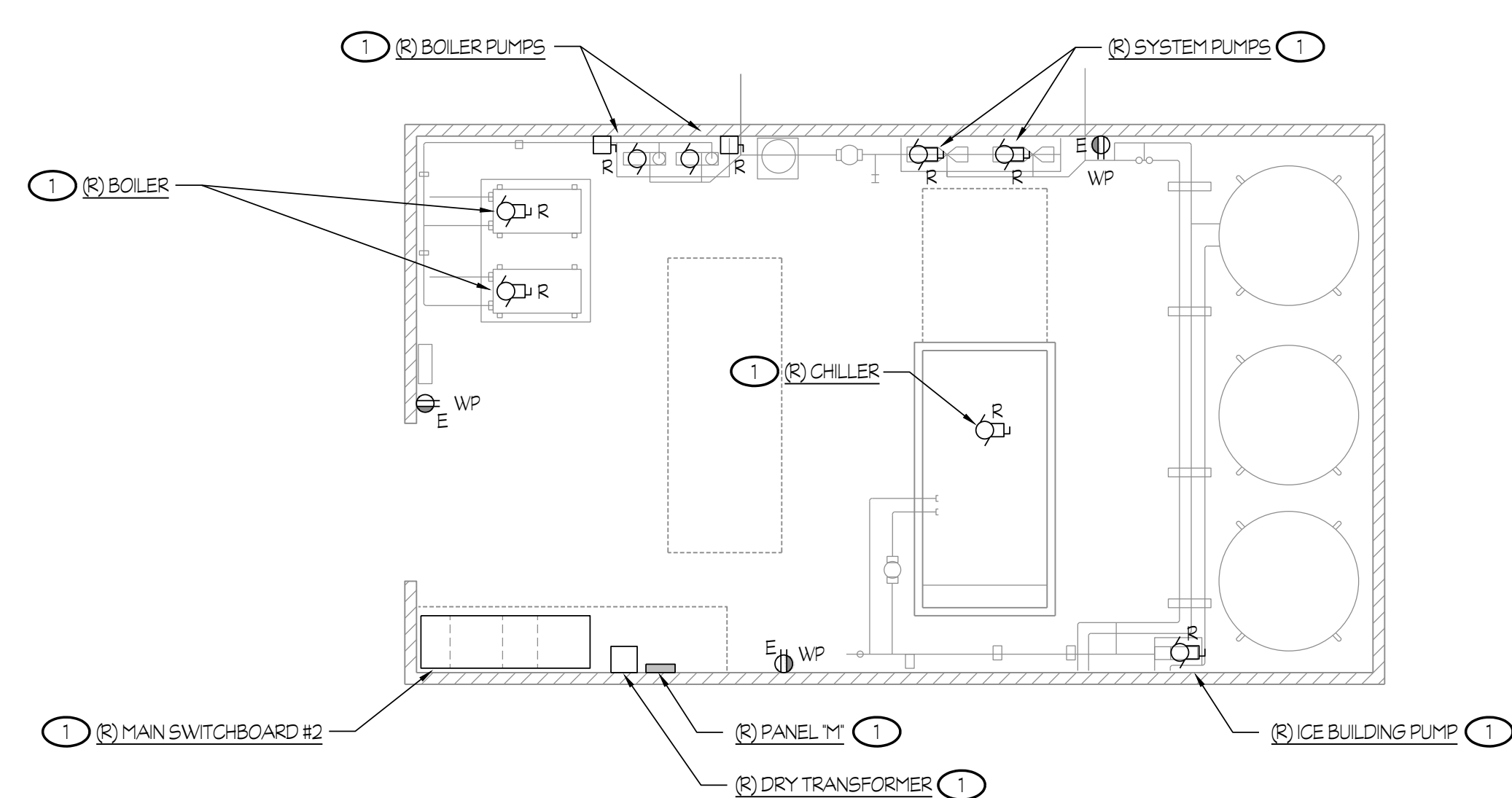
1 **DEMOLITION POWER PLAN - BUILDING "D"**
 CENTRAL PLANT REPLACEMENT

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



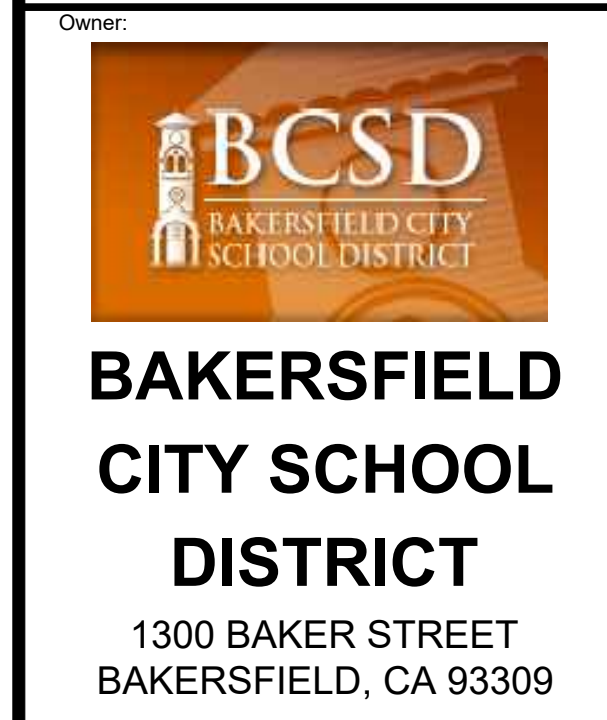
2 **DEMOLITION POWER PLAN - BUILDING "E"**
 CENTRAL PLANT REPLACEMENT

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



3 **DEMOLITION POWER PLAN - MECHANICAL ENCLOSURE**
 CENTRAL PLANT REPLACEMENT

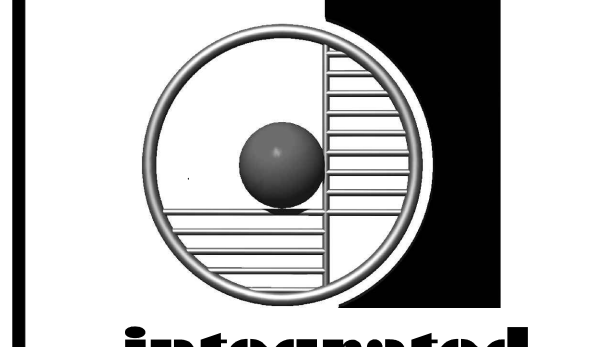
SCALE: 1/8" = 1'-0"



BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
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 Sheet No.: **E2.01**

Sheet Title:
DEMOLITION POWER PLANS BLDG "D & E, ME"

Job No.: **5524**
 Sheet No.: **E2.01**

Release: DSA BACKCHECK Issue Date: 06-14-2023

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 Visalia, California 93292-6705



1" = 50'-0"
 1" = 40'-0"
 1" = 30'-0"
 1" = 20'-0"
 1/8" = 1'-0"
 1/4" = 1'-0"
 1/8" = 1'-0"
 1/4" = 1'-0"

Z:\Drawing\Jani\03-122489\03-122489-Bldg\03-122489-Bldg\03-122489-Bldg\03-122489-Bldg.dwg (Munsey Elementary) - HVAC\2021.dwg
 DATE: 06/14/23 BY: Ryan Dill
 PROJECT: 03-122489 INC.
 27-116-5E

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 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023

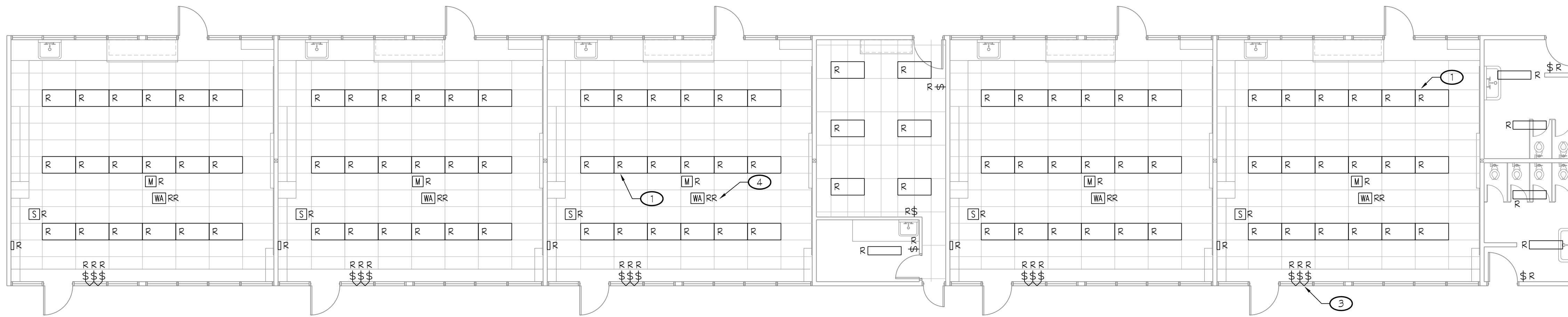
NOTES (THIS SHEET ONLY):

- 1 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'R', DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N.
- 2 TYPICAL OF EXISTING ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'E', U.O.N., EXISTING DEVICE TO REMAIN, RECONNECT TO EXISTING CIRCUIT AS REQUIRED FOR ANY UPSTREAM DEVICES REMOVED.
- 3 EXISTING SWITCH LOCATION SHALL BE REUSED WITH NEW CONTROL DEVICES AS SHOWN ON NEW CONTROLS AND LIGHTING LAYOUTS. TYPICAL FOR ALL SWITCH LOCATIONS.
- 4 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'RR' REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.



1 DEMOLITION LIGHTING PLAN - BUILDING "A"
CENTRAL PLANT REPLACEMENT

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



2 DEMOLITION LIGHTING PLAN - BUILDING "C"
CENTRAL PLANT REPLACEMENT

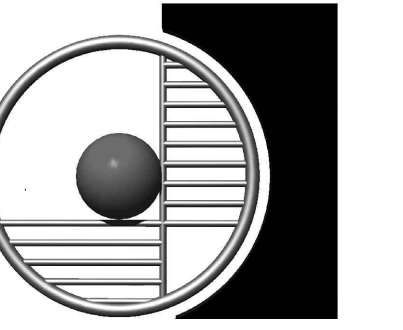
SCALE: 1/8" = 1'-0"



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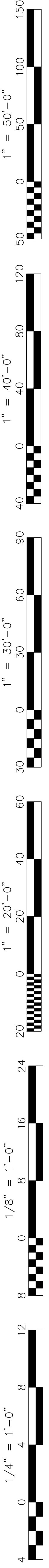
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**DEMOLITION LIGHTING PLANS
 BUILDINGS "A & C"**

Job No.: **5524**

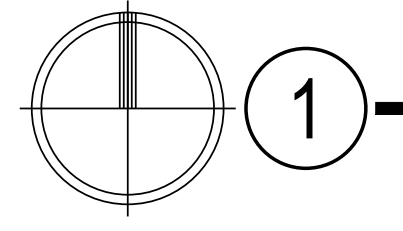
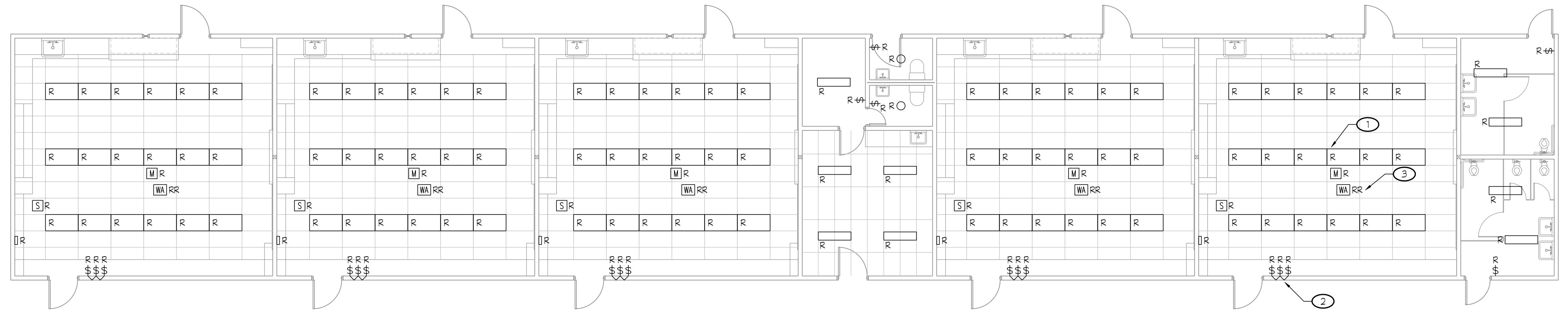
Sheet No.: **E2.02**

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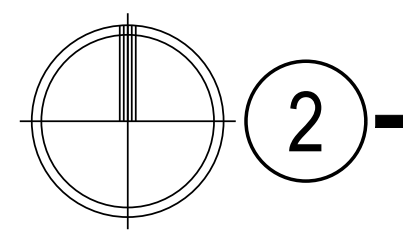
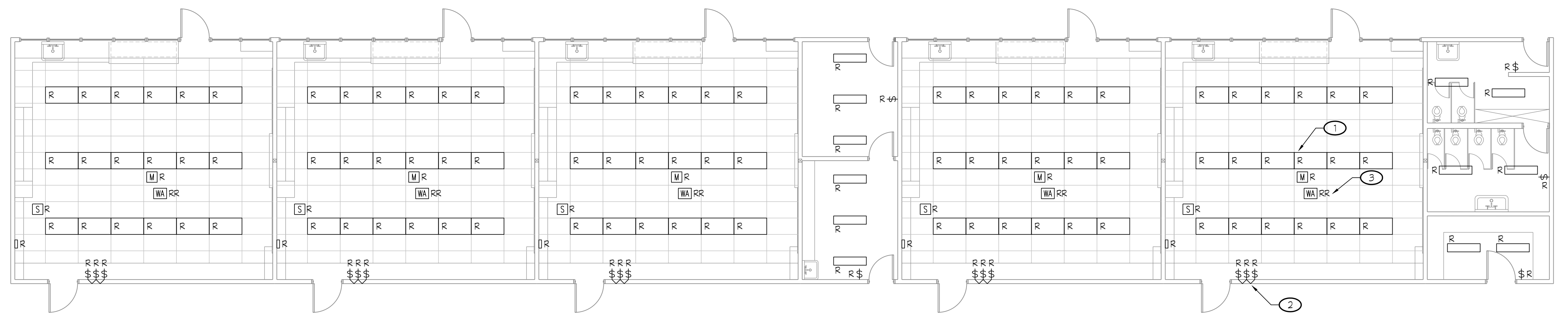


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 5/4/23 10:03:22 (Bakersfield) City School District\Rose Sing Eastham - MOC\23232.dwg DRC 5/4/23 10:03:22 Job #: 23-116-3E



1 DEMOLITION LIGHTING PLAN - BUILDING "D"
CENTRAL PLANT REPLACEMENT

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



2 DEMOLITION LIGHTING PLAN - BUILDING "E"
CENTRAL PLANT REPLACEMENT

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

NOTES (THIS SHEET ONLY):

- 1 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'R' DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N.
- 2 EXISTING SWITCH LOCATION SHALL BE REUSED WITH NEW CONTROL DEVICES AS SHOWN ON NEW CONTROLS AND LIGHTING LAYOUTS, TYPICAL FOR ALL SWITCH LOCATIONS.
- 3 TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'RR' REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.

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DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC:
REVIEWED FOR:
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DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN
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Sheet Title:
DEMOLITION LIGHTING PLANS BLDG "D & E"

Job No.: **5524**

Sheet No.: **E2.03**

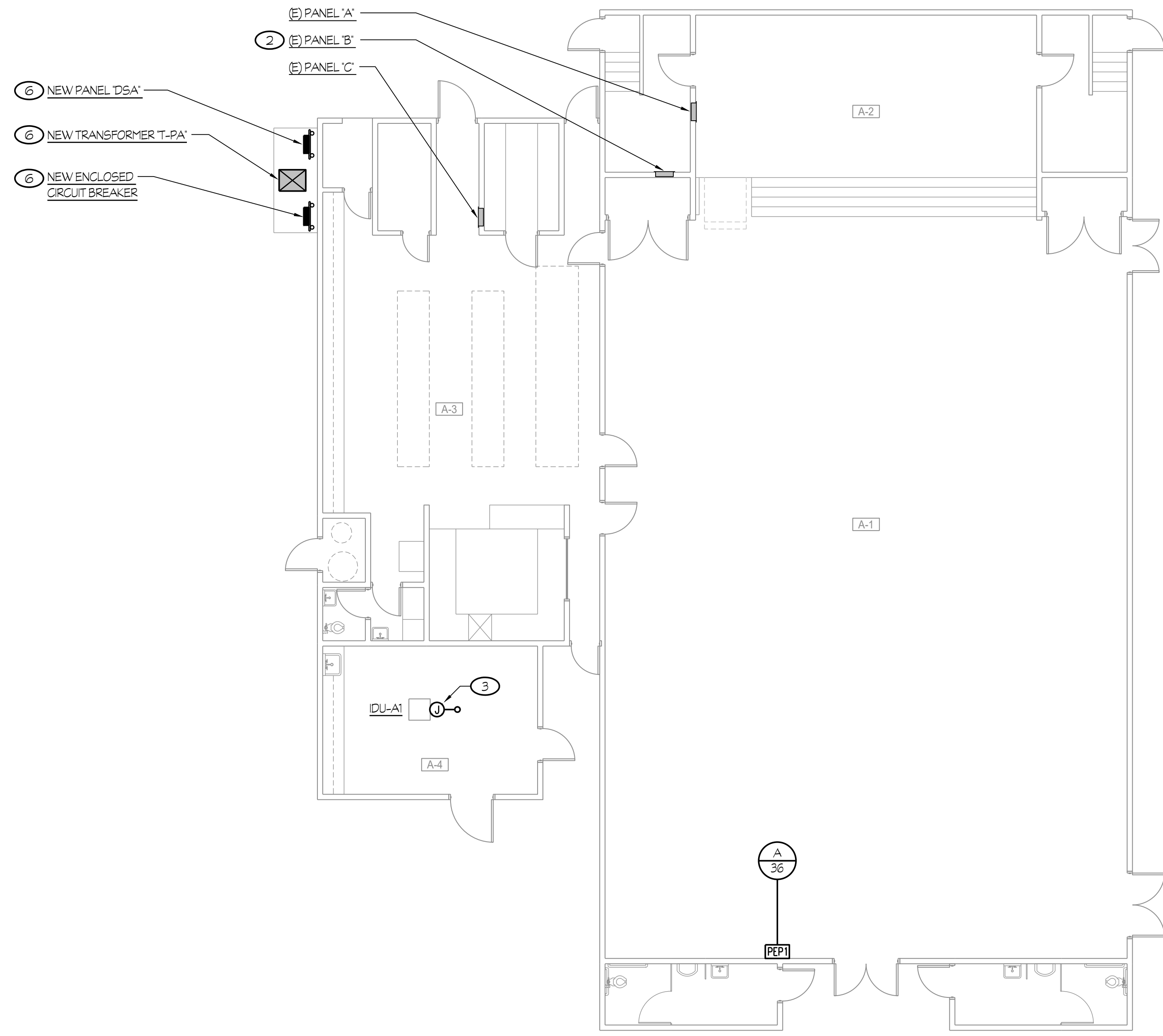
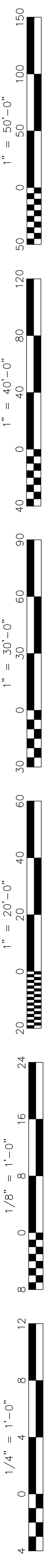
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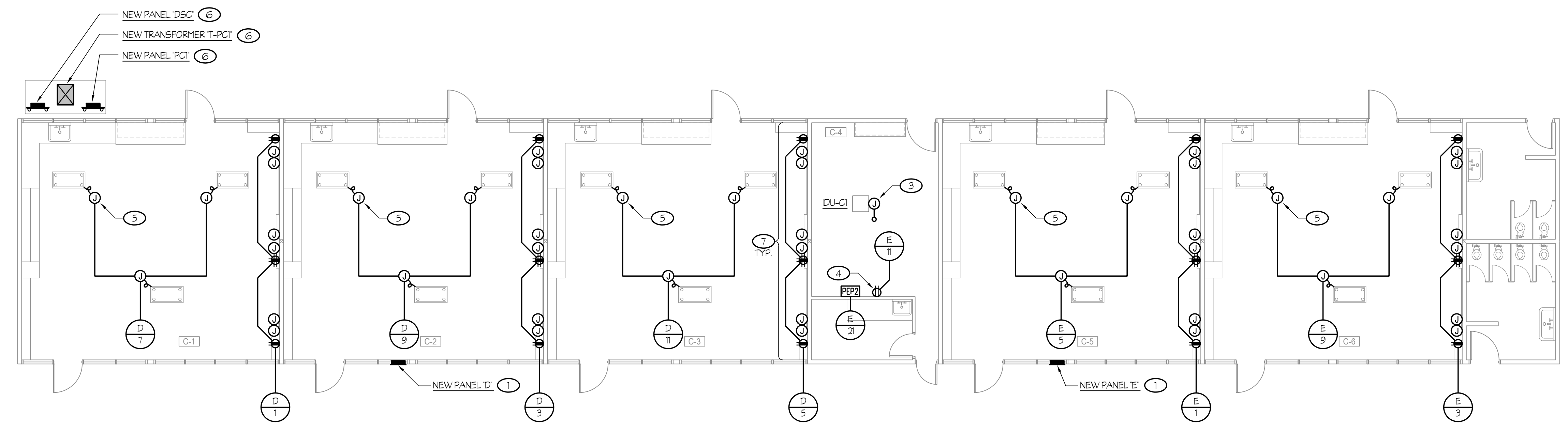
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1" = 40'-0"
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1" = 15'-0"
1" = 12'-0"
1" = 10'-0"
1" = 8'-0"
1" = 6'-0"
1" = 4'-0"
1" = 3'-0"
1" = 2'-0"
1" = 1'-0"
1/4" = 1'-0"

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1 NEW POWER PLAN - BUILDING "A"
CENTRAL PLANT REPLACEMENT

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



2 NEW POWER PLAN - BUILDING "C"
CENTRAL PLANT REPLACEMENT

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


NOTES (THIS SHEET ONLY):

- 1 REPLACE EXISTING PANEL WITH NEW PANEL PER ONE-LINE DIAGRAM. EXISTING CIRCUIT SHALL BE RECONNECTED, WALL SHALL BE PATCHED AND REPAIRED AS REQUIRED. REFER TO DETAIL #6/ES.00 FOR MOUNTING REQUIREMENTS.
- 2 EXISTING PANEL (INSTALLED UNDER DSA #5242) SHALL BE RECONNECTED TO NEW FEED AS REQUIRED.
- 3 PROVIDE 3/4" C-2 #12 + 1 #2 TO ROOF TOP UNIT FOR POWER CONNECTION AS REQUIRED. REFER TO DETAIL #2/ES.01.
- 4 COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL CONTROLLER AS REQUIRED.
- 5 RECONNECT EXISTING MECHANICAL EQUIPMENT. EXTEND EXISTING CIRCUIT AS REQUIRED. TYPICAL.
- 6 REFER TO ONE-LINE DIAGRAM, SHEET #E4.01 AND DETAIL #9 / ES.00 FOR ADDITIONAL INFORMATION.
- 7 REFER TO DETAIL #2/EO.01 FOR TYPICAL TEACHER WALL ELEVATION.

GENERAL NOTES

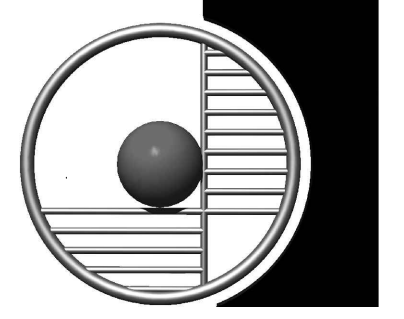
1. EXISTING RECEPTACLES SHALL REMAIN INCLUDING RESPECTIVE CIRCUITS.
2. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

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 DATE: 07/27/2023

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BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
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 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309


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ROOM LEGEND	
#	ROOM NAME
A-1	MULTI-USE
A-2	PLATFORM
A-3	KITCHEN
A-4	LOUNGE

ROOM LEGEND	
#	ROOM NAME
C-1	CLASSROOM
C-2	CLASSROOM
C-3	CLASSROOM
C-4	WORKROOM
C-5	CLASSROOM
C-6	CLASSROOM

Stamp:

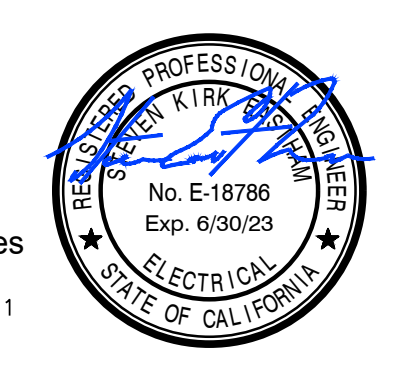
Sheet Title:
NEW POWER PLANS BUILDINGS "A & C"

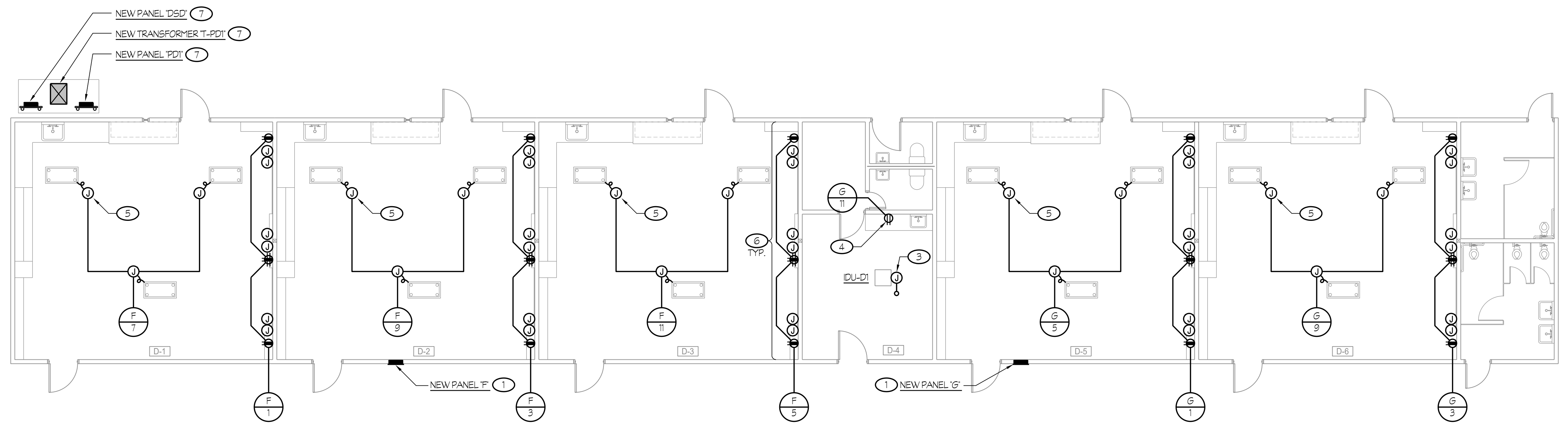
Job No.: **5524**

Sheet No.: **E2.10**

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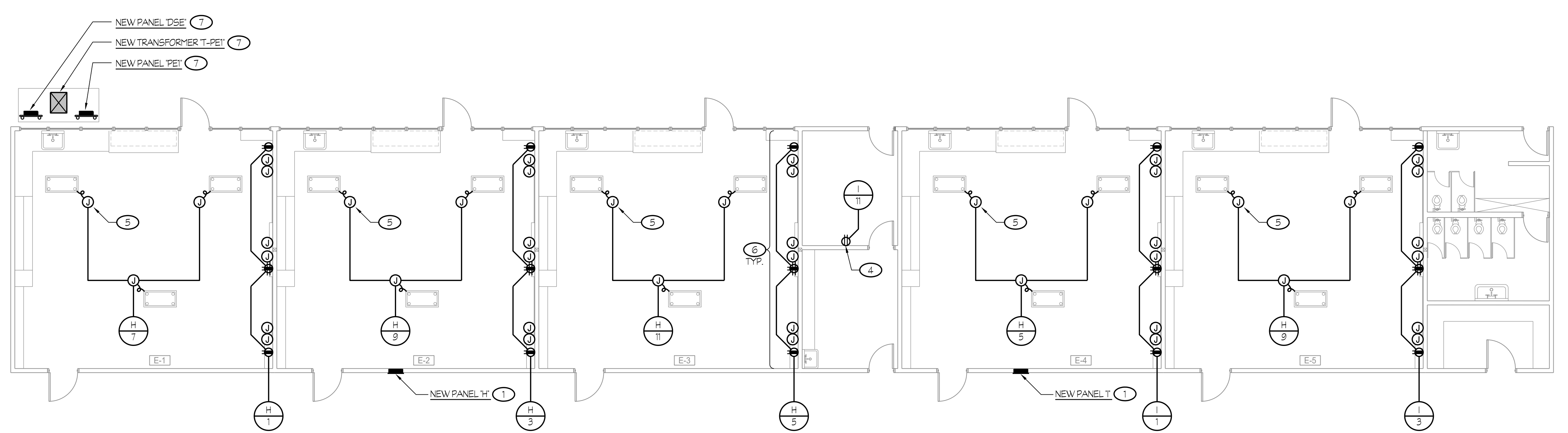
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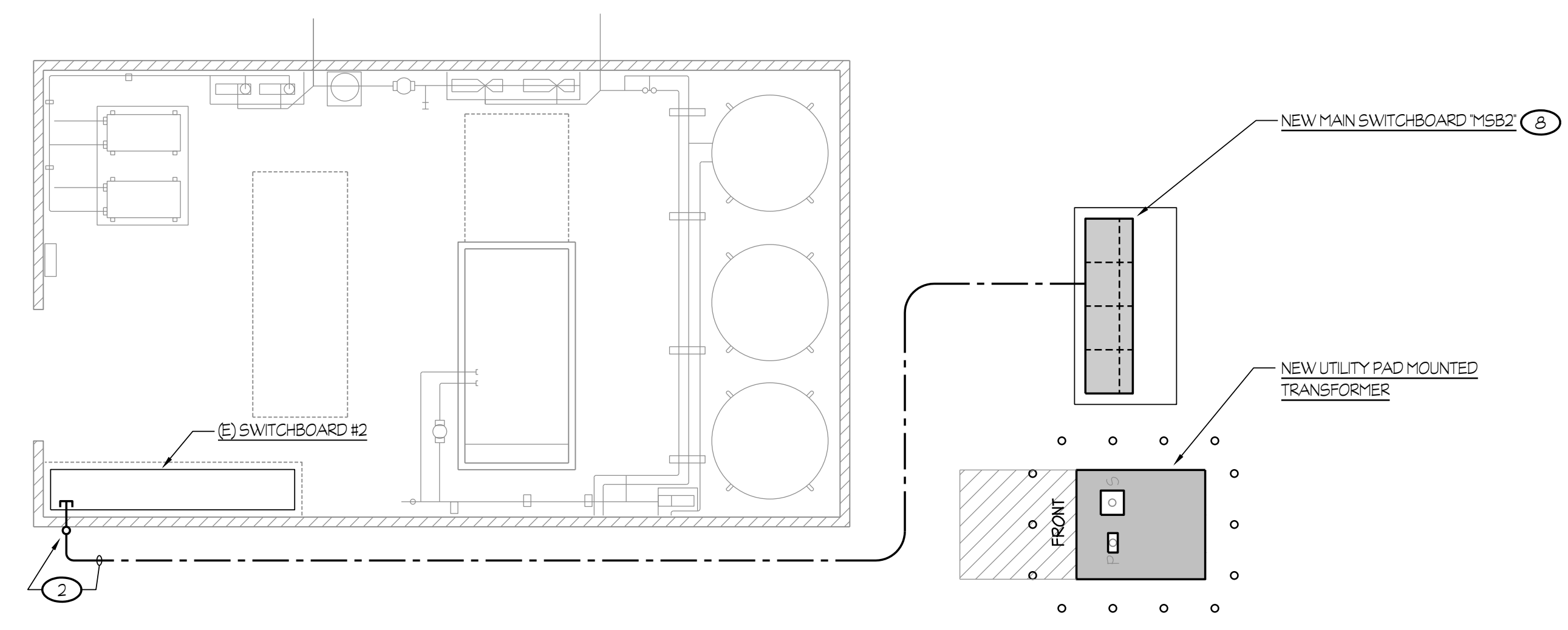
1 NEW POWER PLAN - BUILDING "D"
CENTRAL PLANT REPLACEMENT

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



2 NEW POWER PLAN - BUILDING "E"
CENTRAL PLANT REPLACEMENT

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



3 NEW POWER PLAN - MECHANICAL ENCLOSURE
CENTRAL PLANT REPLACEMENT

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

NOTES (THIS SHEET ONLY):

- 1 REPLACE EXISTING PANEL WITH NEW PANEL PER ONE-LINE DIAGRAM. EXISTING CIRCUIT SHALL BE RECONNECTED, WALL SHALL BE PATCHED AND REPAIRED AS REQUIRED. REFER TO DETAIL #6/ES.00 FOR MOUNTING REQUIREMENTS.
- 2 PROVIDE TEMPORARY FEED TO EXISTING SWITCHBOARD FOR OPERATION DURING CONSTRUCTION ACTIVITIES. REFER TO ONE LINE DIAGRAM, SHEET #E4.01.
- 3 PROVIDE 3/4" x 2 #2 + 1 #2 TO ROOF TOP UNIT FOR POWER CONNECTION AS REQUIRED. REFER TO DETAIL #2/ES.01.
- 4 COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL CONTROLLER AS REQUIRED.
- 5 RECONNECT EXISTING MECHANICAL EQUIPMENT. EXTEND EXISTING CIRCUIT AS REQUIRED. TYPICAL.
- 6 REFER TO DETAIL #2/EO.01 FOR TYPICAL TEACHER WALL ELEVATION.
- 7 REFER TO ONE-LINE DIAGRAM, SHEET #E4.01 AND DETAIL #9 / ES.00 FOR ADDITIONAL INFORMATION.
- 8 REFER TO DETAIL #7/ES.00 FOR MOUNTING REQUIREMENTS.

GENERAL NOTES

1. EXISTING RECEPTACLES SHALL REMAIN INCLUDING RESPECTIVE CIRCUITS.
2. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

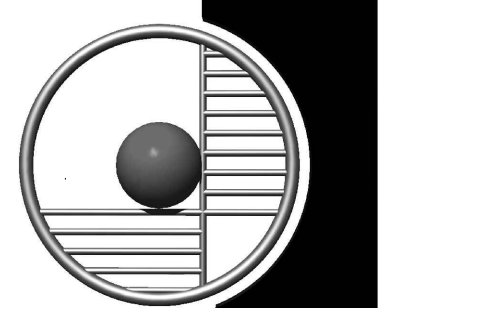
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DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309



by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
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E: design@somam.com
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Stamp:

#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	LOUNGE
D-5	CLASSROOM
D-6	CLASSROOM

#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM
E-5	CLASSROOM

Sheet Title:
NEW POWER PLANS - BLDG. "D, E & ME"

Job No.: **5524**

Sheet No.: **E2.11**

Release: DSA BACKCHECK Issue Date: 06-14-2023



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Visalia, California 93292-6705



1" = 50'-0"
1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1" = 1'-0"
1/8" = 1'-0"
1/4" = 1'-0"

Z:\Drawing\Jobs\2023\03\03\03\Bakersfield City School District\Munsey Elementary - HVAC\21.1.dwg D:\CADD\21.1.dwg D:\CADD\21.1.dwg D:\CADD\21.1.dwg D:\CADD\21.1.dwg D:\CADD\21.1.dwg

NOTES (THIS SHEET ONLY):

- 1 SYMBOL  DENOTES LIGHT FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK. CONNECT PER DETAIL #3/E5.00.
- 2 REFER TO TYPICAL LIGHTING CONTROL PLAN, #1/E2.22 FOR ADDITIONAL WORK.
- 3  DENOTES CAT. 5e CABLE. ELECTRICAL CONTRACTOR MAY USE PRETERMINATED CAT. 5e CABLING OR PROVIDE CAT. 5e CABLING, MODULAR JACKS ON EACH END AND TERMINATE THE MODULAR JACKS USING THE TIA/EIA-568-B.2 PUNCH-PAIR SPECIFICATION. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND OUTLET BOXES IN WALLS FOR ROUTING OF CABLING. CABLE MAY BE ROUTED IN FREE-AIR, WHEN LOCATED IN ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. AT GYPOBOARD CEILING, PROVIDE A DOUBLE-GANG LOW VOLTAGE MOUNTING PLATE BRACKET, CADDY #MPLS2 OR EQUAL, AT THE RJ-45 JACKS (EMBEDDED CONTROLS) OF THE SURFACE MOUNTED LIGHT FIXTURES FOR PASSAGE OF CAT. 5e CABLING.
- 4 REFER TO TYPICAL LIGHTING CONTROL PLAN, #2/E2.22 FOR ADDITIONAL WORK.
- 5 REFER TO NEW LIGHTING CONTROLS PLAN - BUILDING 'A', #2/E2.22 FOR ADDITIONAL WORK.
- 6 CONNECT NEW LIGHTING TO EXISTING CIRCUIT AS REQUIRED.

GENERAL NOTES

1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

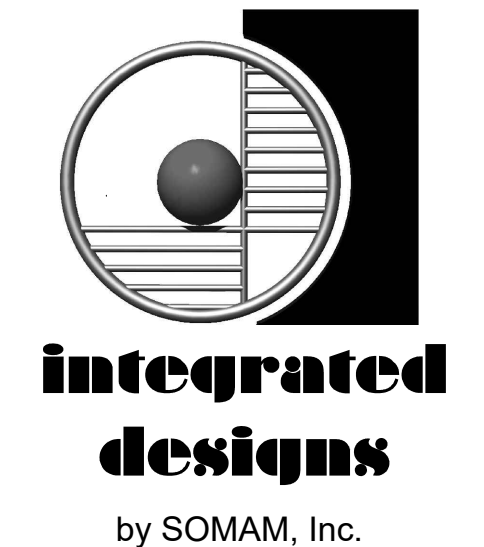
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APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309



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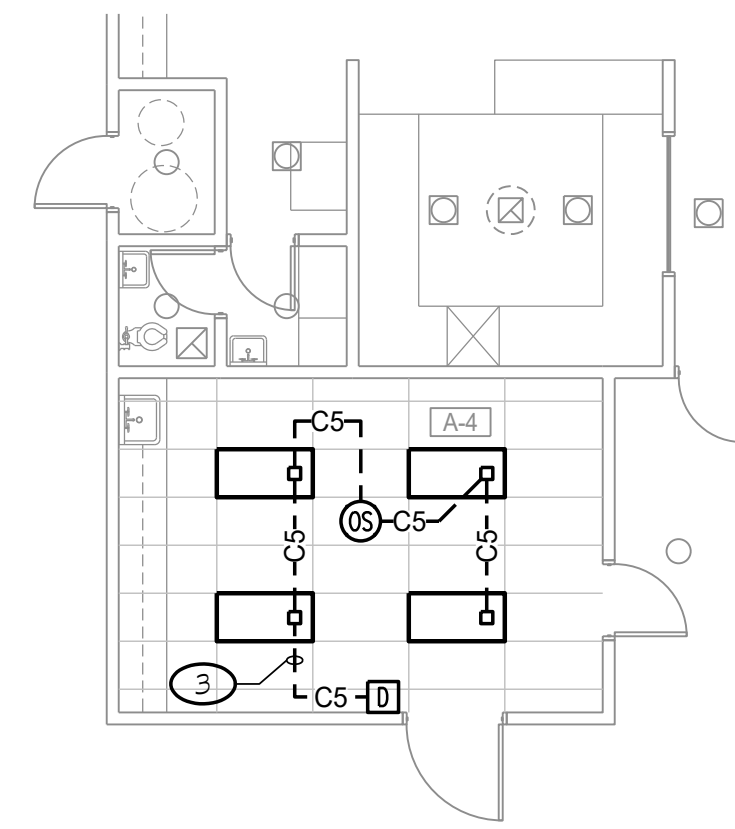
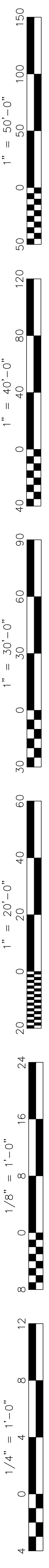
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NEW LIGHTING PLANS BUILDINGS 'A & C'

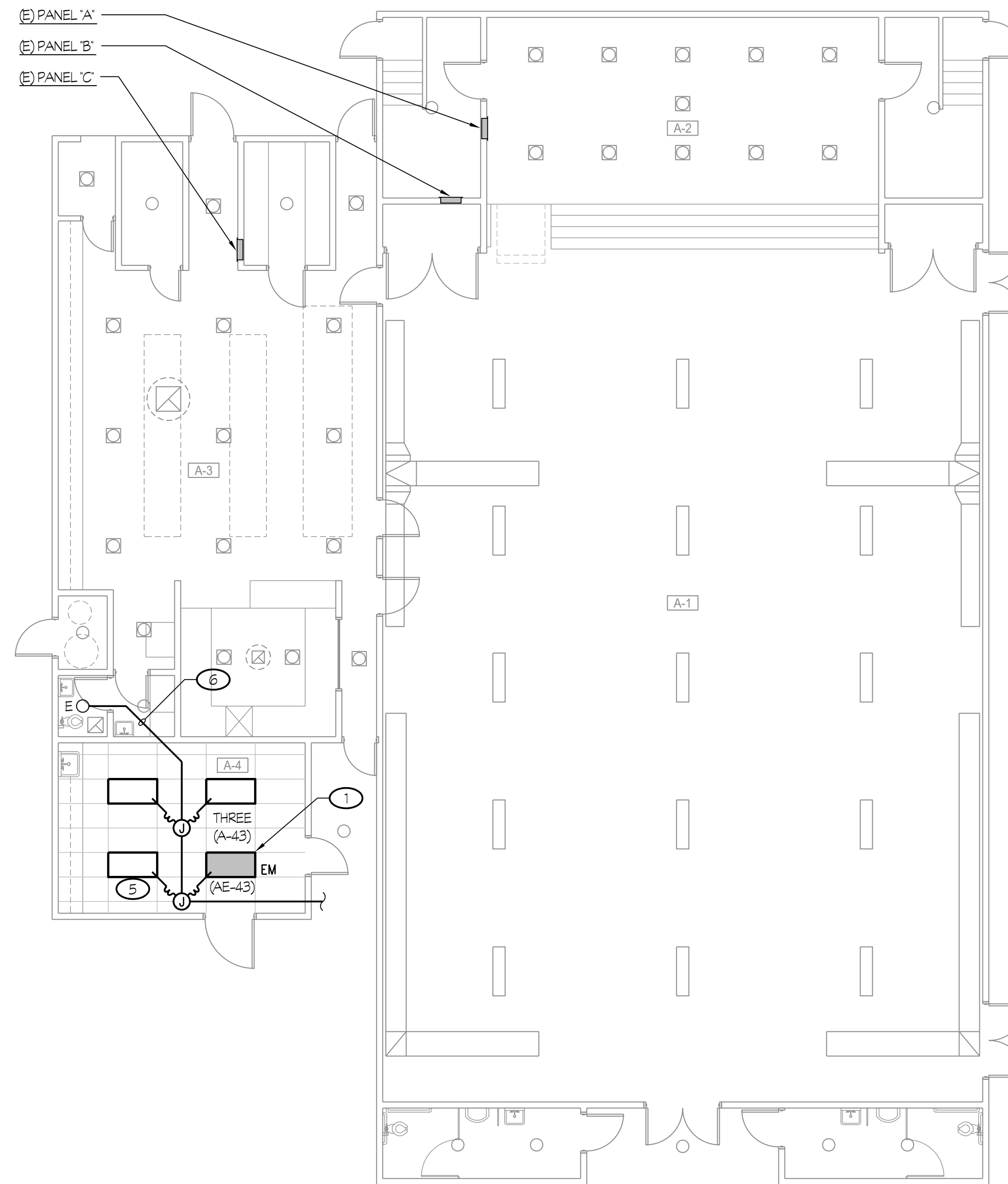
Job No.: **5524**

Sheet No.: **E2.20**

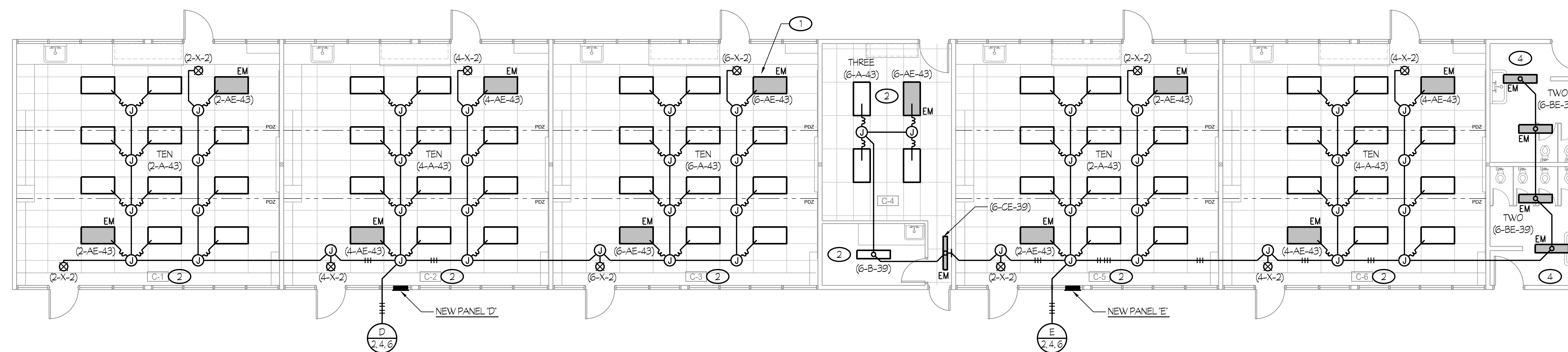
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2 NEW LIGHTING CONTROLS PLAN - BUILDING "A"
CENTRAL PLANT REPLACEMENT SCALE: 1/8" = 1'-0"



1 NEW LIGHTING PLAN - BUILDING "A"
CENTRAL PLANT REPLACEMENT SCALE: 1/8" = 1'-0"

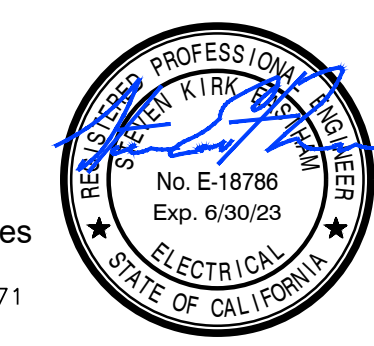


#	ROOM NAME
A-1	MULTI-USE
A-2	PLATFORM
A-3	KITCHEN
A-4	LOUNGE

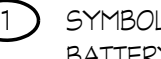
#	ROOM NAME
C-1	CLASSROOM
C-2	CLASSROOM
C-3	CLASSROOM
C-4	WORKROOM
C-5	CLASSROOM
C-6	CLASSROOM

3 NEW LIGHTING PLAN - BUILDING "C"
CENTRAL PLANT REPLACEMENT SCALE: 1/8" = 1'-0"

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Visalia, California 93292-6705



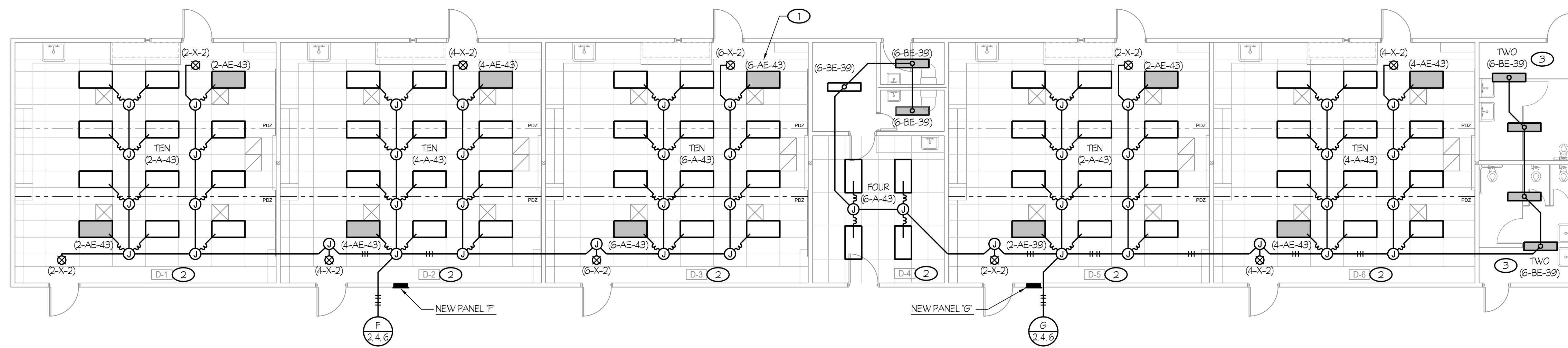
NOTES (THIS SHEET ONLY):

- ① SYMBOL  DENOTES LIGHT FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK. CONNECT PER DETAIL #3/E5.00.
- ② REFER TO TYPICAL LIGHTING CONTROL PLAN, #1/E2.22 FOR ADDITIONAL WORK.
- ③ REFER TO TYPICAL LIGHTING CONTROL PLAN, #2/E2.22 FOR ADDITIONAL WORK.

GENERAL NOTES

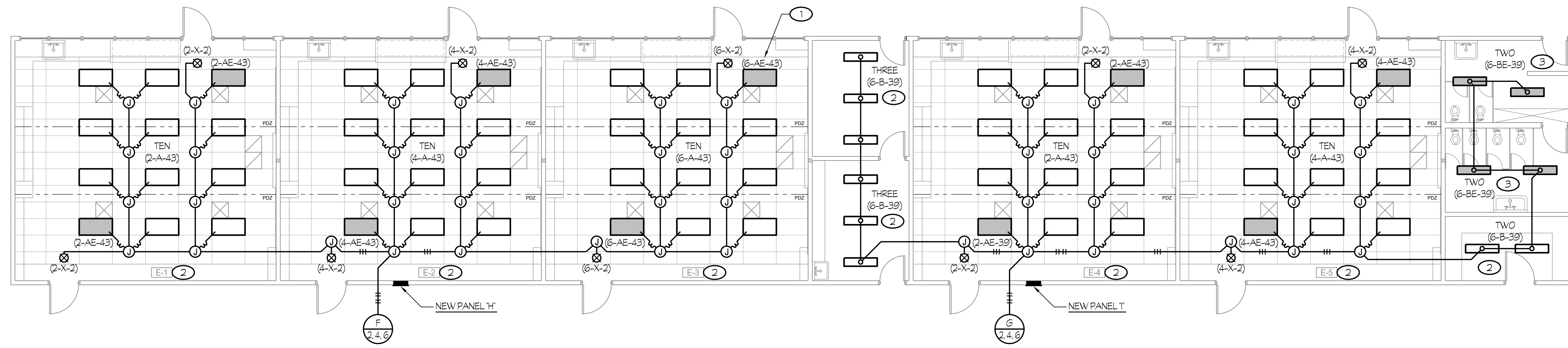
- 1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.

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DATE: 07/27/2023



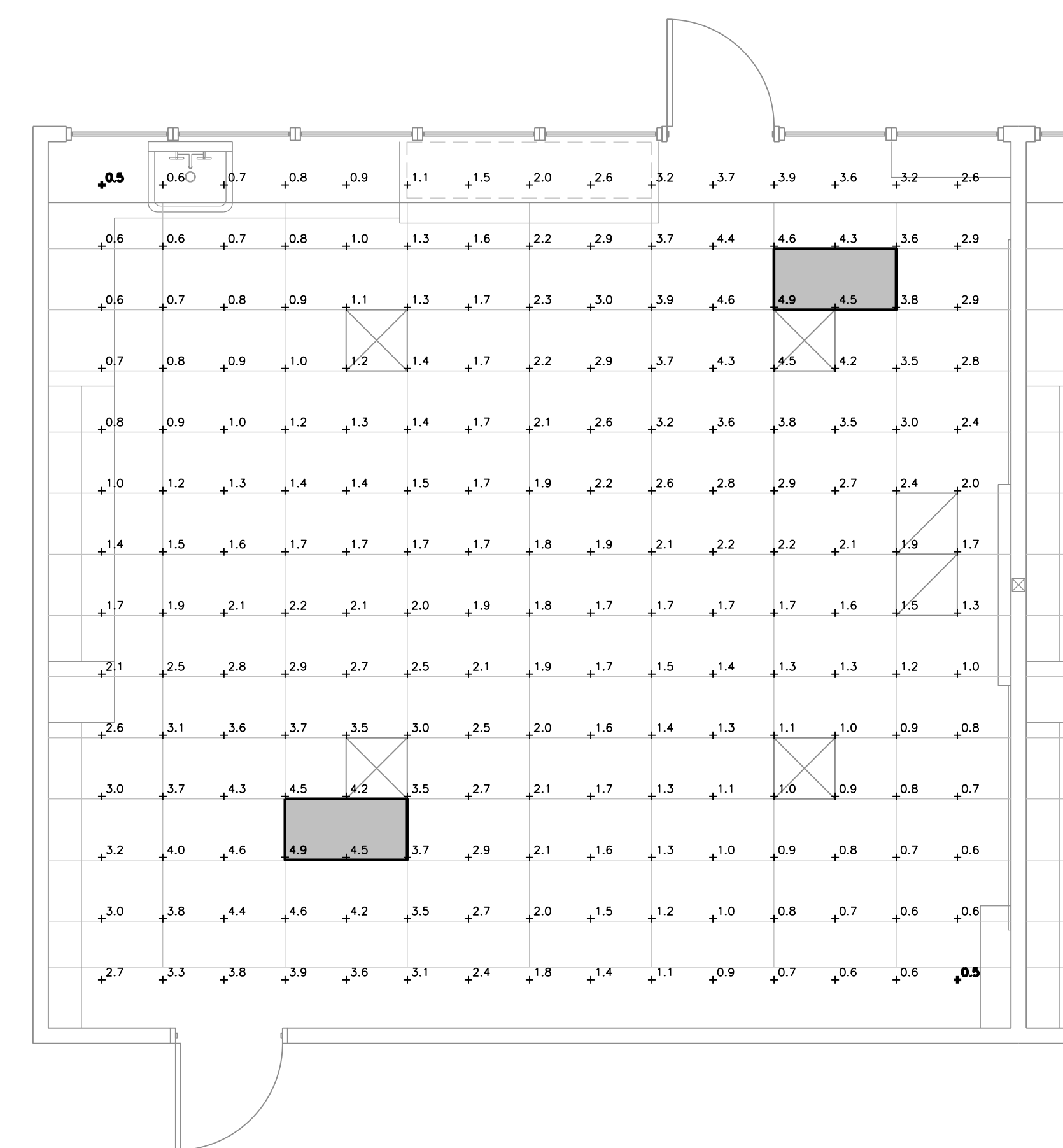
① **NEW LIGHTING PLAN - BUILDING "D"**
CENTRAL PLANT REPLACEMENT

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



② **NEW LIGHTING PLAN - BUILDING "E"**
CENTRAL PLANT REPLACEMENT

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



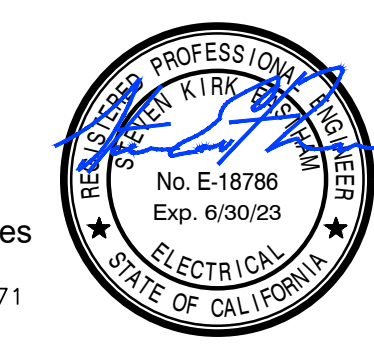
③ **TYPICAL CLASSROOM EMERGENCY LIGHTING PHOTOMETRIC PLAN**
CENTRAL PLANT REPLACEMENT

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

ROOM LEGEND	
#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	LOUNGE
D-5	CLASSROOM
D-6	CLASSROOM

ROOM LEGEND	
#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM
E-5	CLASSROOM

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Electrical Consultants
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Visalia, California 93292-6705

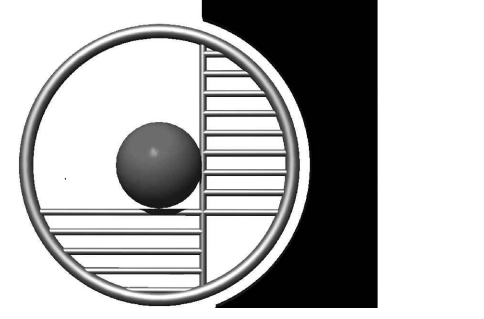


Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
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Project Address:
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3801 BRAVE AVENUE
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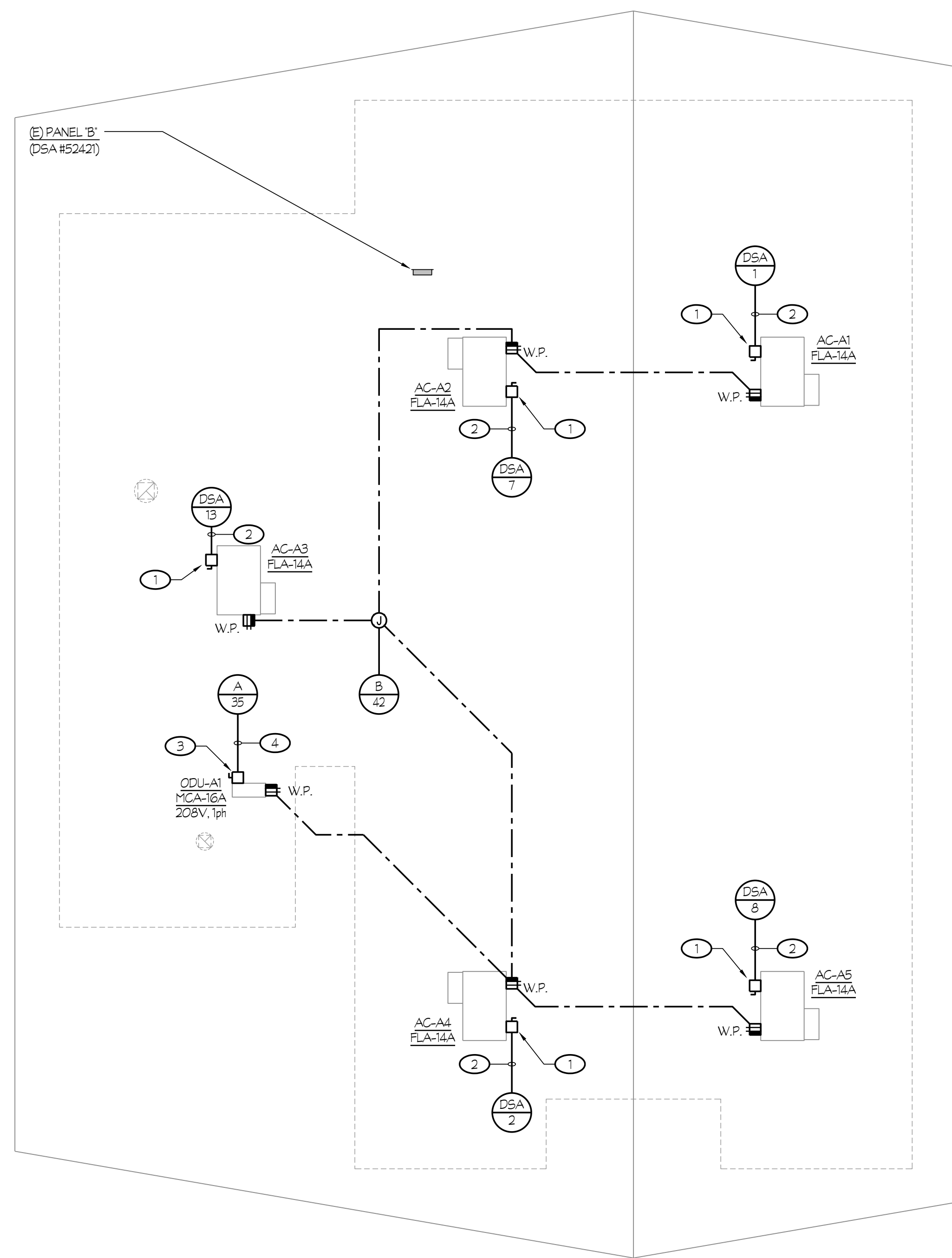
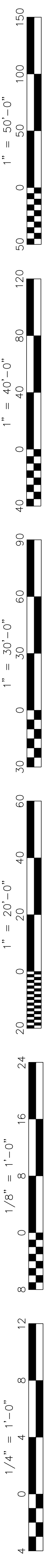
Sheet Title:

NEW LIGHTING PLANS BLDG "D & E"

Job No.: **5524**

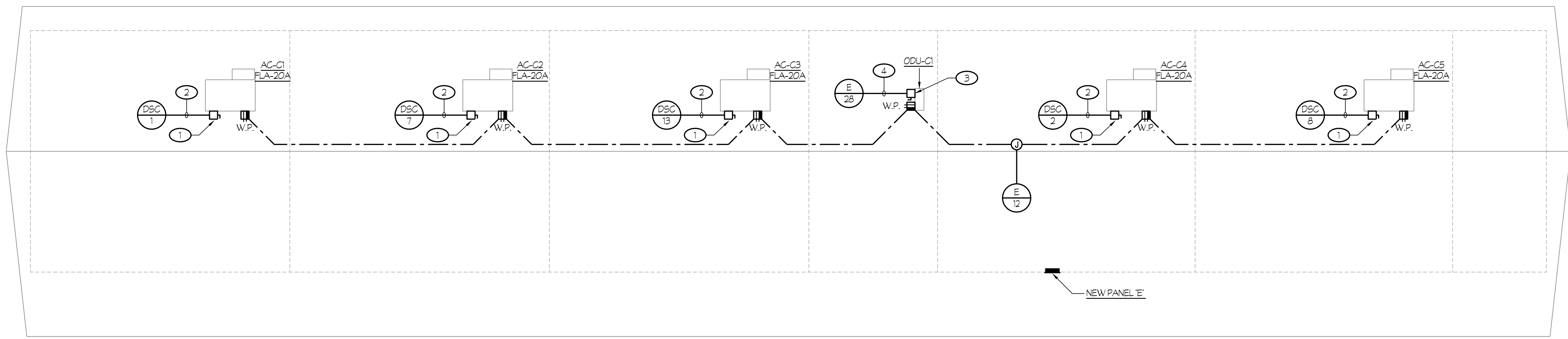
Sheet No.: **E2.21**

Released: DSA BACKCHECK Issue Date: 06-14-2023



1 NEW ROOF ELECTRICAL PLAN - BUILDING "A"
CENTRAL PLANT REPLACEMENT

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



2 NEW ROOF ELECTRICAL PLAN - BUILDING "C"
CENTRAL PLANT REPLACEMENT

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

NOTES (THIS SHEET ONLY):

- 1 PROVIDE WEATHERPROOF 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 20A FUSES (TO BE VERIFIED WITH NAMEPLATE) AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
- 2 3/4" C - 3 #10 + 1 #10 GND.
- 3 PROVIDE WEATHERPROOF 30A, 208V, 2-POLE FUSED DISCONNECT SWITCH WITH 20A FUSES (TO BE VERIFIED WITH NAMEPLATE) AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
- 4 3/4" C - 2 #10 + 1 #10 GND.

GENERAL NOTES

- 1. REFER TO DETAILS ON SHEET RES.01 FOR CONDUIT MOUNTING REQUIREMENTS.

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DATE: 07/27/2023

Owner:
BCSD
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

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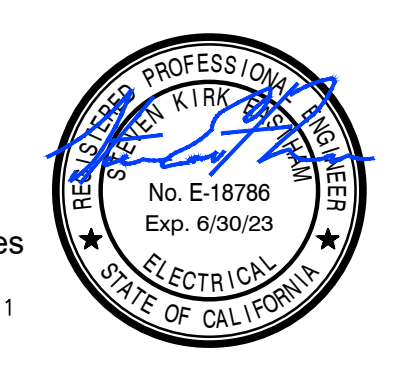
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NEW ROOF ELECT. PLANS BUILDINGS "A & C"

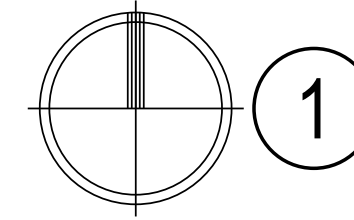
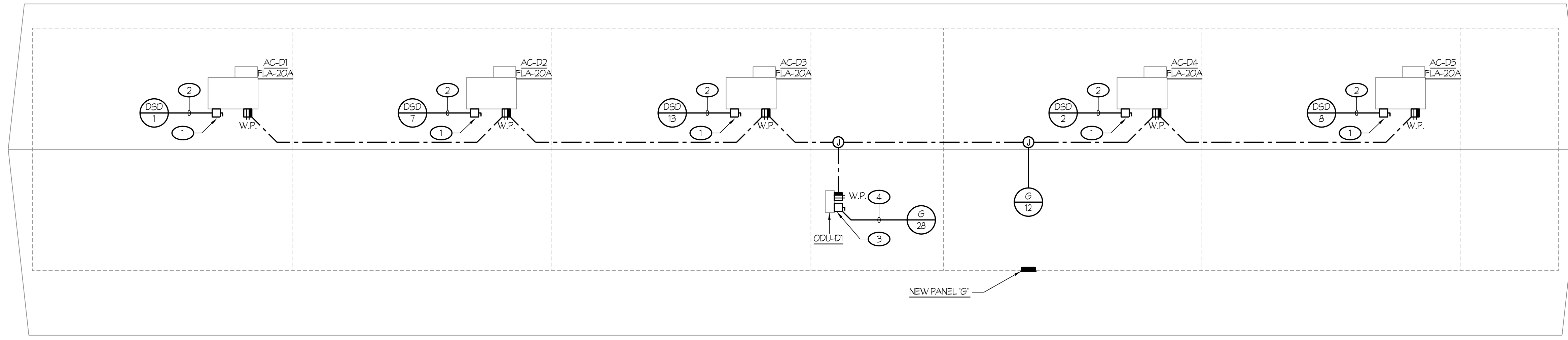
Job No.: **5524**

Sheet No.: **E2.30**

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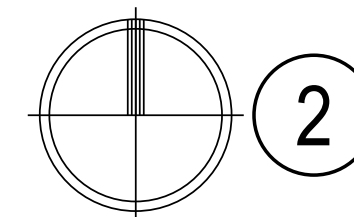
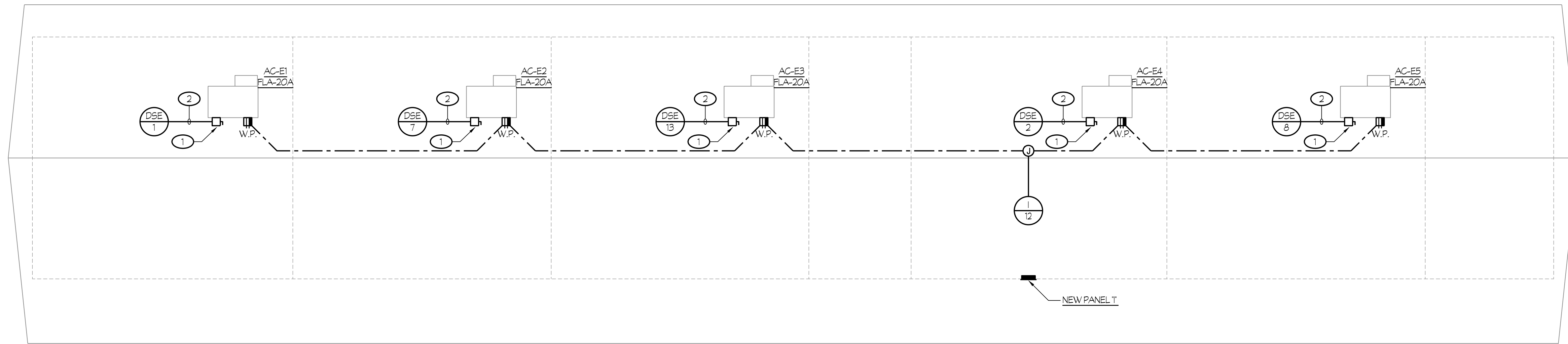
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Visalia, California 93292-6705





1 NEW ROOF ELECTRICAL PLAN - BUILDING "D"
CENTRAL PLANT REPLACEMENT

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



2 NEW ROOF ELECTRICAL PLAN - BUILDING "E"
CENTRAL PLANT REPLACEMENT

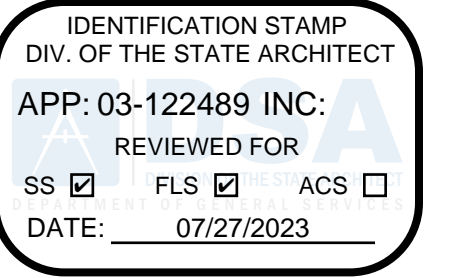
SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

- 1 PROVIDE WEATHERPROOF 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH WITH 20A FUSES (TO BE VERIFIED WITH NAMEPLATE) AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
- 2 3/4" C - 3 #10 x 1#10 GND.
- 3 PROVIDE WEATHERPROOF 30A, 208V, 2-POLE FUSED DISCONNECT SWITCH WITH 20A FUSES (TO BE VERIFIED WITH NAMEPLATE) AND CONNECT TO MECHANICAL UNIT AS REQUIRED.
- 4 3/4" C - 2 #10 x 1#10 GND.

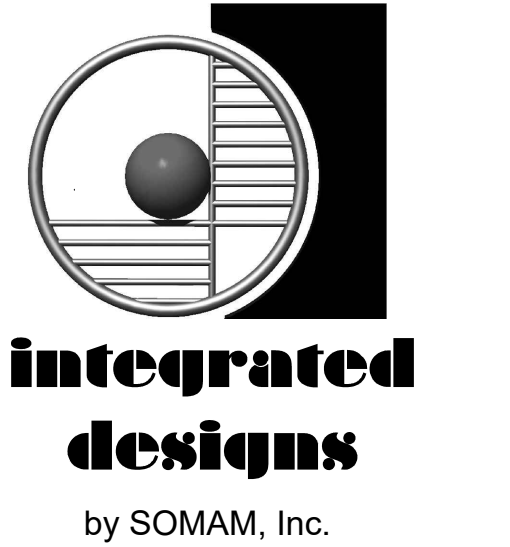
GENERAL NOTES

1. REFER TO DETAILS ON SHEET RES.01 FOR CONDUIT MOUNTING REQUIREMENTS.



CENTRAL PLANT REPLACEMENT

MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309



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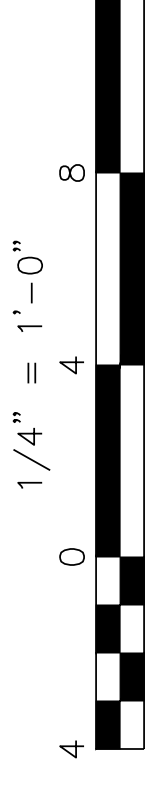
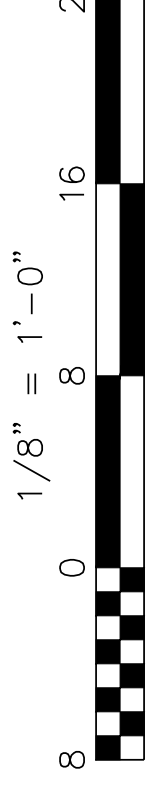
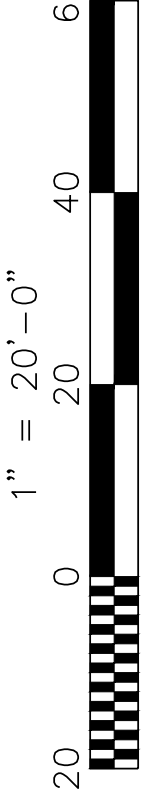
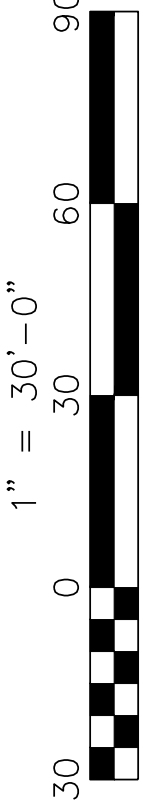
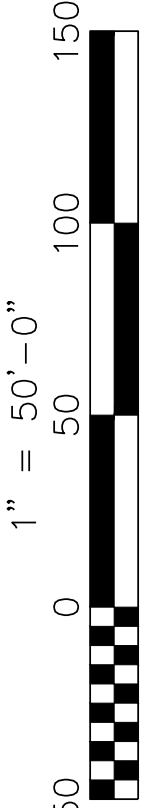
**NEW ROOF
ELECT. PLANS
BLDG "D & E"**

Job No: **5524**

Sheet No: **E2.31**

Release: DSA BACKCHECK Issue Date: 06-14-2023

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NOTES (THIS SHEET ONLY):

- ① TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'R'; DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N.
- ② TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'RR'; REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.

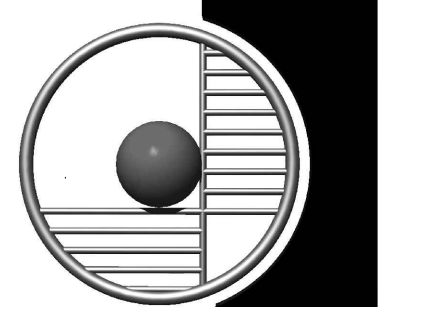
IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
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Project Address:
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 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309


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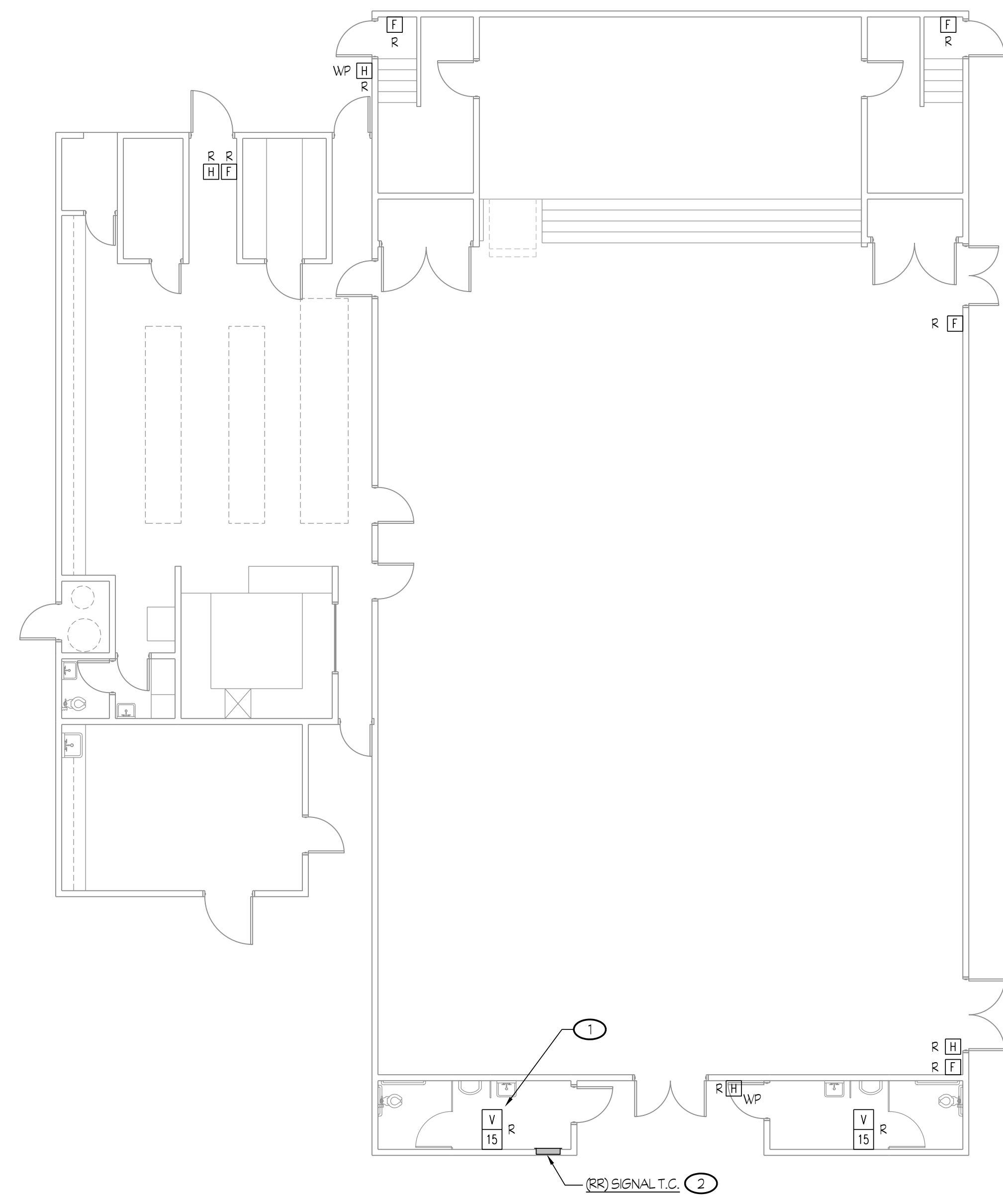
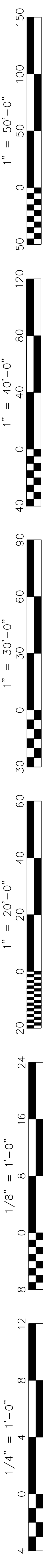
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Sheet Title:
DEMOLITION FIRE ALARM PLANS BUILDINGS "A & C"

Job No.: **5524**

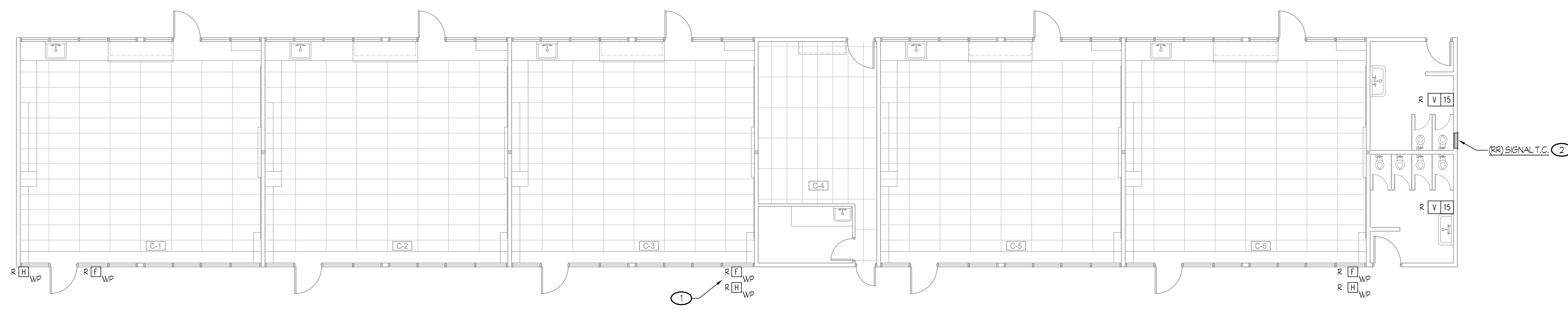
Sheet No.: **E3.00**

Release: DSA BACKCHECK Issue Date: 06-14-2023



① **DEMOLITION FIRE ALARM PLAN - BUILDING "A"**
 CENTRAL PLANT REPLACEMENT

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

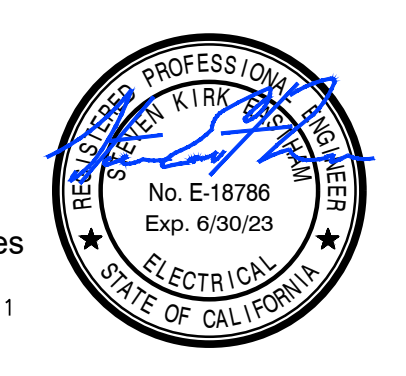


② **DEMOLITION FIRE ALARM PLAN - BUILDING "C"**
 CENTRAL PLANT REPLACEMENT

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

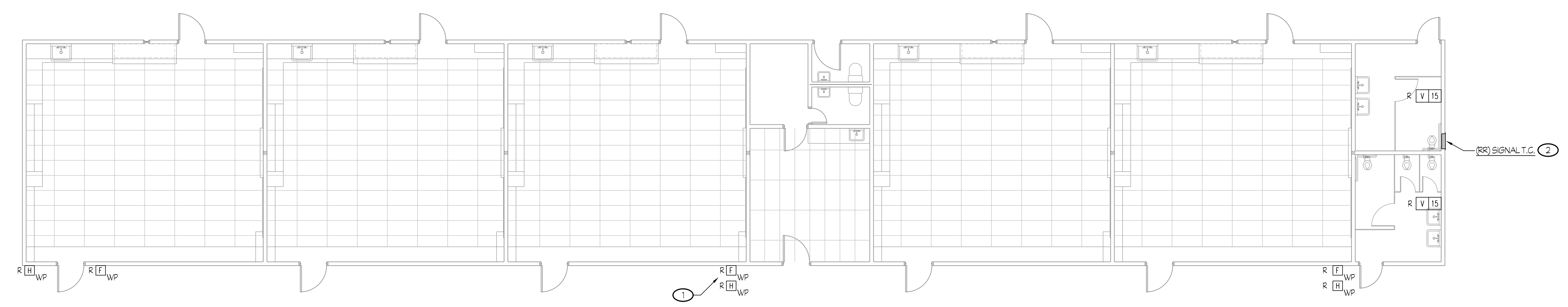
ROOM LEGEND	
#	ROOM NAME
C-1	CLASSROOM
C-2	CLASSROOM
C-3	CLASSROOM
C-4	WORKROOM
C-5	CLASSROOM
C-6	CLASSROOM

Rose Sing Eastham & Associates
 Electrical Consultants
 131 S. Sunnyside - (559) 733-2671
 Visalia, California 93292-6705

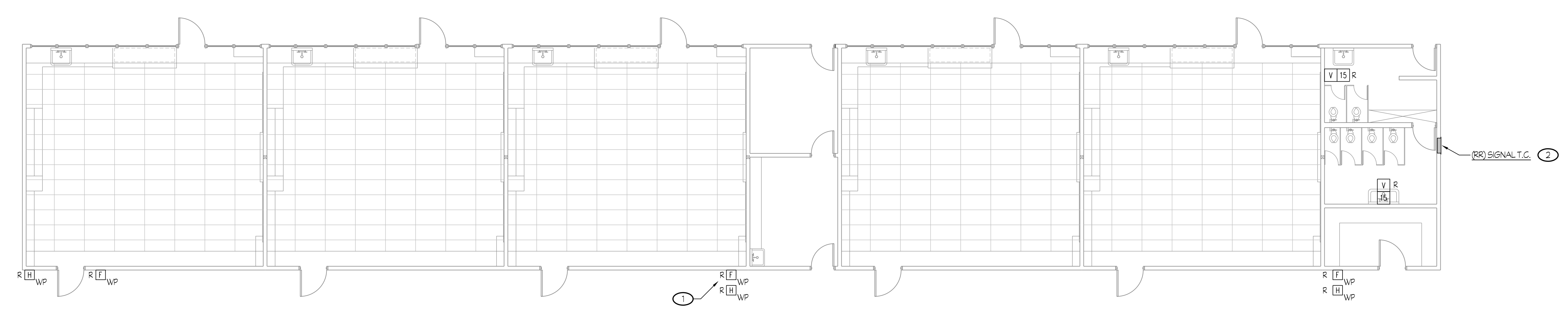


IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 07/27/2023


NOTES (THIS SHEET ONLY):
 ① TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'R'; DISCONNECT AND REMOVE EXISTING DEVICE INCLUDING CIRCUIT WIRING AND CONDUIT TO SOURCE OF SUPPLY OR REMAINING FEEDING DEVICE, U.O.N.
 ② TYPICAL OF ELECTRICAL DEVICES, KEYNOTED WITH SUBSCRIPT 'RR'; REMOVE AND RELOCATED EXISTING DEVICE IN SIMILAR LOCATION; ADJUST WIRING AND CONDUIT TO RECONNECT TO REPLACED DEVICE AS REQUIRED TO CLEAR WAY FOR NEW CONSTRUCTION.



1 DEMOLITION FIRE ALARM PLAN - BUILDING "D"
CENTRAL PLANT REPLACEMENT
 SCALE: 1/8" = 1'-0"

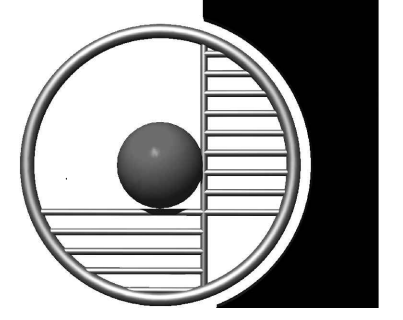


2 DEMOLITION FIRE ALARM PLAN - BUILDING "E"
CENTRAL PLANT REPLACEMENT
 SCALE: 1/8" = 1'-0"

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309


integrated designs
 by SOMAM, Inc.
 ARCHITECTURE
 ENGINEERING
 INTERIOR DESIGN
 6011 N. FRESNO STREET, SUITE 130
 FRESNO CALIFORNIA 93710
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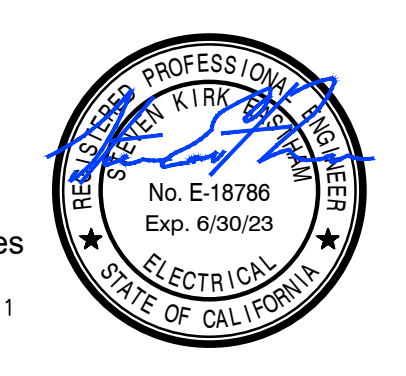
Sheet Title:
**DEMOLITION FIRE ALARM PLANS
 BLDG "D & E"**

Job No.:
5524

Sheet No.:
E3.01

Release: DSA BACKCHECK Issue Date: 06-14-2023

Rose Sing Eastham & Associates
 Electrical Consultants
 131 S. Sunnyside - (559) 733-2671
 Visalia, California 93292-6705



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IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 07/27/2023

NOTES (THIS SHEET ONLY):

- 1 1/2" C - ONE P/N CABLE, ONE FSP CABLE, TYPICAL FOR NOTIFICATION CIRCUIT.
- 2 3/4" C - TWO FSP CABLE.
- 3 3/4" C - TWO P/N CABLE, TWO FSP CABLE.
- 4 1/2" C - ONE FA CABLE, TYPICAL FOR INITIATING CIRCUIT.
- 5 EXPOSED CONDUIT LOCATION - PAINT CONDUIT TO MATCH CEILING FINISH. TYPICAL FOR MULTI-PURPOSE ROOM.
- 6 PROVIDE RELAY CONNECTION FOR SOUND SYSTEM SILENCE DURING ALARM CONDITIONS.
- 7 1/2" C - ONE FSP CABLE.
- 8 MECHANICAL UNIT ON ROOF. COORDINATE EXACT LOCATION OF DUCT SMOKE DETECTOR WITH INSTALLING CONTRACTOR. TYPICAL.
- 9 REFER TO DETAIL #4/E3.22 FOR MOUNTING REQUIREMENTS.
- 10 REFER TO DETAIL #5/E3.22 FOR MOUNTING REQUIREMENTS.
- 11 REFER TO DETAIL #6/E3.22 FOR MOUNTING REQUIREMENTS.
- 12 TC - CABLE PER FIRE ALARM RISER DIAGRAM, SHEET HE3.21.

GENERAL NOTES

- 1 REFER TO DETAILS ON SHEET HE5.07 FOR CONDUIT MOUNTING REQUIREMENTS.



BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309



integrated designs
 by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

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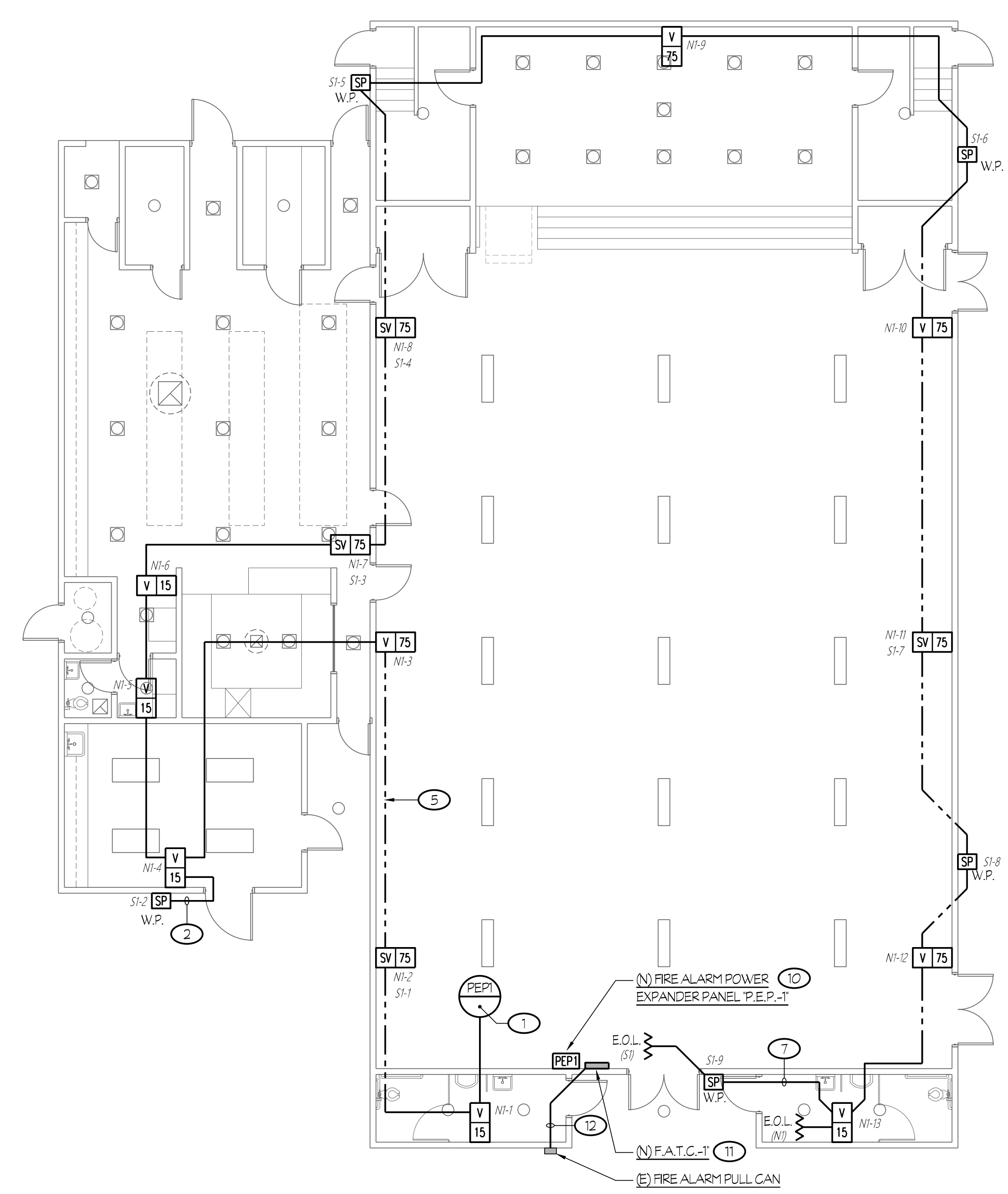
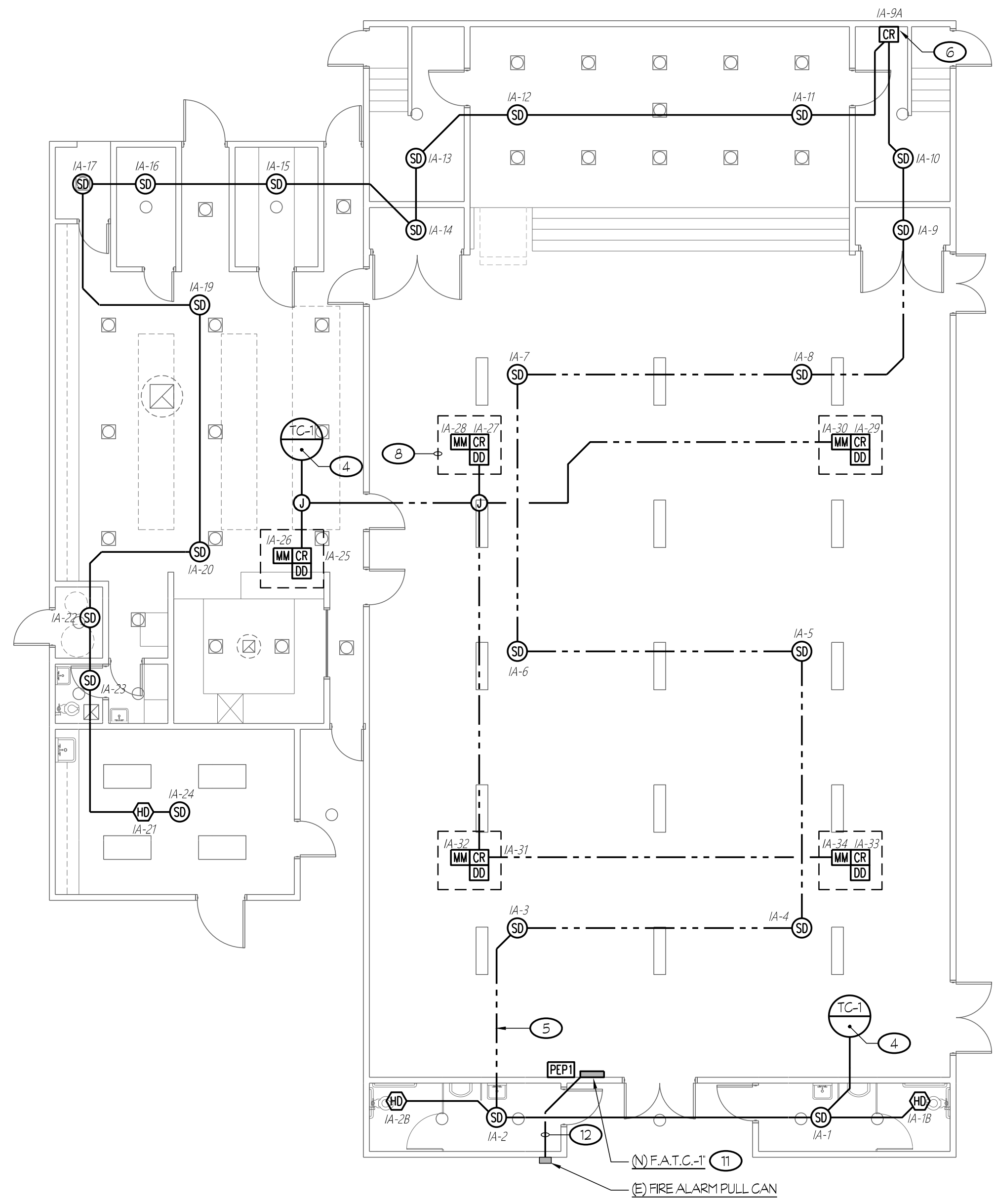
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NEW FIRE ALARM ALARM PLANS BUILDINGS "A&C"

Job No.:
5524

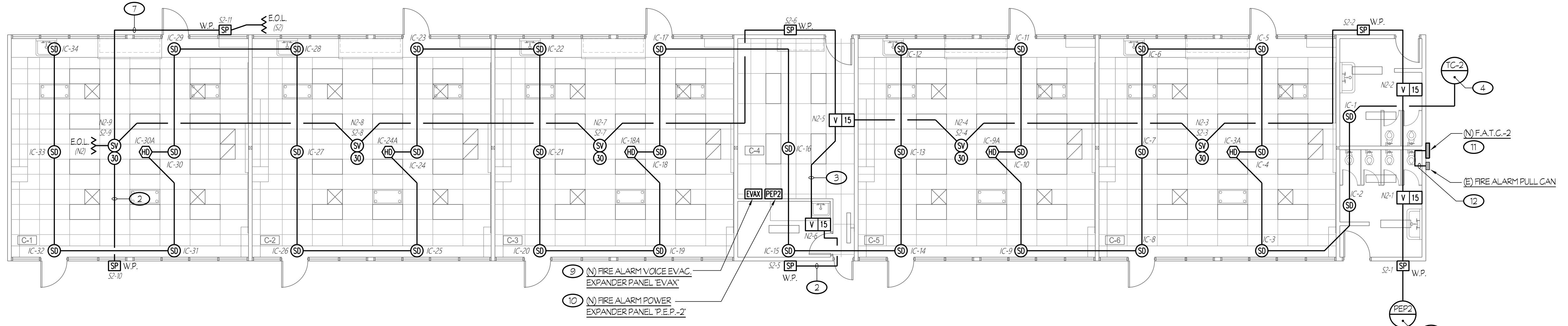
Sheet No.:
E3.10

Release: DSA BACKCHECK Issue Date: 06-14-2023



1 **NEW FIRE ALARM INITIATION PLAN - BUILDING "A"**
 CENTRAL PLANT REPLACEMENT SCALE: 1/8" = 1'-0"

2 **NEW FIRE ALARM NOTIFICATION PLAN - BUILDING "A"**
 CENTRAL PLANT REPLACEMENT SCALE: 1/8" = 1'-0"



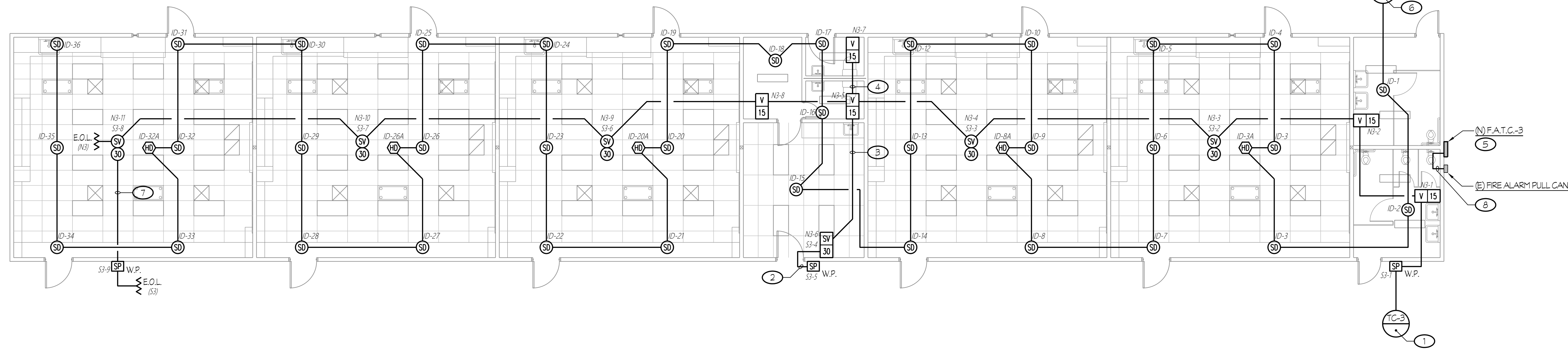
3 **FIRE ALARM PLANS - BUILDING "C"**
 CENTRAL PLANT REPLACEMENT SCALE: 1/8" = 1'-0"

ROOM LEGEND	
#	ROOM NAME
A-1	MULTI-USE
A-2	PLATFORM
A-3	KITCHEN
A-4	LOUNGE

ROOM LEGEND	
#	ROOM NAME
C-1	CLASSROOM
C-2	CLASSROOM
C-3	CLASSROOM
C-4	WORKROOM
C-5	CLASSROOM
C-6	CLASSROOM

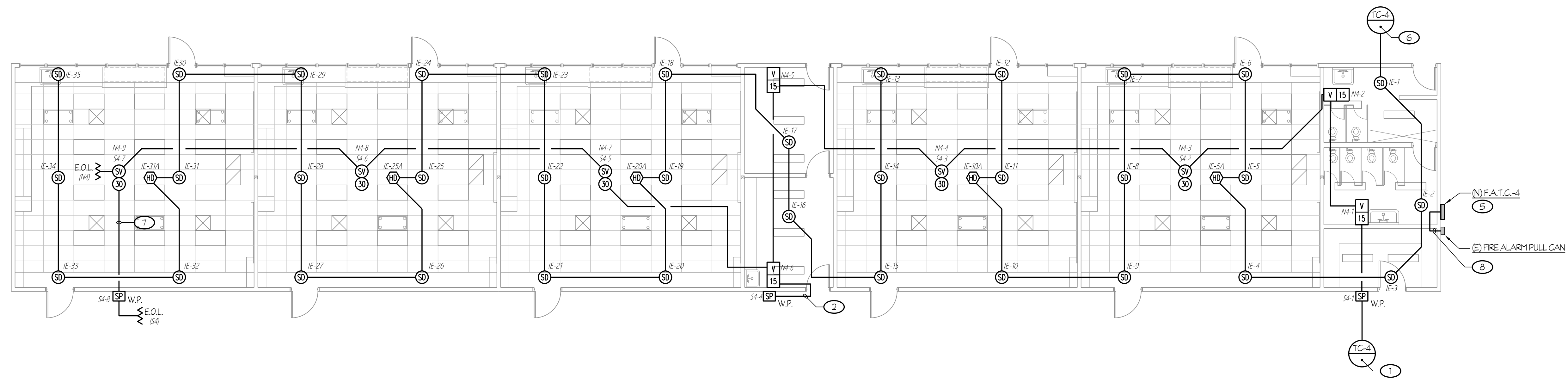
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 Visalia, California 93292-6705





1 **NEW FIRE ALARM PLAN - BUILDING "D"**
CENTRAL PLANT REPLACEMENT

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



2 **NEW FIRE ALARM PLAN - BUILDING "E"**
CENTRAL PLANT REPLACEMENT

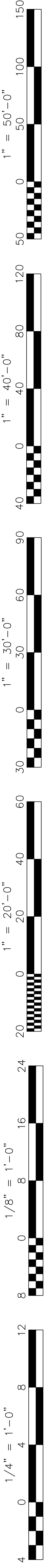
SCALE: 1/8" = 1'-0"

NOTES (THIS SHEET ONLY):

- 1 1/2" C - ONE FN CABLE, ONE FSP CABLE, TYPICAL FOR NOTIFICATION CIRCUIT.
- 2 3/4" C - TWO FSP CABLE.
- 3 3/4" C - TWO FN CABLE, TWO FSP CABLE.
- 4 3/4" C - TWO FN CABLE.
- 5 REFER TO DETAIL #6 E3 22 FOR MOUNTING REQUIREMENTS.
- 6 1/2" C - ONE FA' CABLE, TYPICAL FOR INITIATING CIRCUIT.
- 7 1/2" C - ONE FSP CABLE.
- 8 1" C - CABLE PER FIRE ALARM RISER DIAGRAM, SHEET #E3.21.

GENERAL NOTES

- 1. REFER TO DETAILS ON SHEET #E5.01 FOR CONDUIT MOUNTING REQUIREMENTS.



ROOM LEGEND	
#	ROOM NAME
D-1	CLASSROOM
D-2	CLASSROOM
D-3	CLASSROOM
D-4	LOUNGE
D-5	CLASSROOM
D-6	CLASSROOM

ROOM LEGEND	
#	ROOM NAME
E-1	CLASSROOM
E-2	CLASSROOM
E-3	CLASSROOM
E-4	CLASSROOM
E-5	CLASSROOM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023

Owner:
 BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
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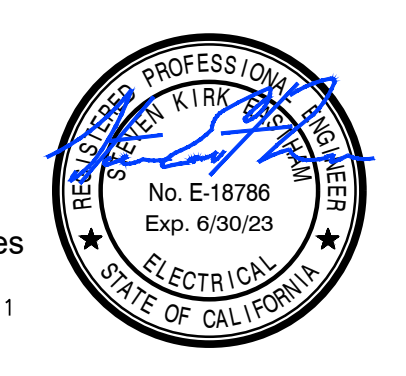
Sheet Title:
**NEW FIRE ALARM PLANS
BLDG "D & E"**

Job No.: **5524**

Sheet No.: **E3.11**

Release: DSA BACKCHECK Issue Date: 06-14-2023

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FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS					
SYMBOL	DESCRIPTION	MODEL #	CSFM LISTING #	BACKBOX REQUIREMENTS	MOUNTING HEIGHT (TO CENTER U.O.N.)
FAFP	EXISTING FIRE ALARM CONTROL PANEL WITH NETWORK INTERFACE CARD AND DIGITAL ALARM COMMUNICATOR	HOCHKI #FN4127UBERS120/FN-DAC	7165-0410.0159	EXISTING (DSA #03-112253)	EXISTING
FAMP	EXISTING FIRE ALARM VOICE EVACUATION SYSTEM	HOCHKI		EXISTING (DSA #03-112253)	
EVAM	FIRE ALARM VOICE EVACUATION EXPANSION	HOCHKI EVAX 254Z	6911-0410.0176	INCLUDED	+60"
FEP	FIRE ALARM POWER EXPANDER	HOCHKI #FN-B42-ULADA	7315-0410.0166	INCLUDED	+60"
AD	ADDRESSABLE HEAT DETECTOR MOUNTED IN ATTIC SPACE	HOCHKI BAT-J-EAF #H5B-NSA-6	7270-0410.0203 7300-0410.0132	4" SQ. x 2 1/8" DP. OUTLET BOX	PER DETAIL #3/E3.22 (E)
SD	ADDRESSABLE SMOKE DETECTOR	HOCHKI BALK-V #H5B-NSA-6	7272-0410.0173 7300-0410.0132	4" SQ. x 2 1/8" DP. OUTLET BOX	PER DETAIL #3/E3.22
LD	DUCT SMOKE DETECTOR (BY MECHANICAL CONTRACTOR)				
MM	ADDRESSABLE MONITOR MODULE	HOCHKI #DCP-FRCMA	7300-0410.0150	4" SQ. x 2 1/8" DP. OUTLET BOX	
RM	ADDRESSABLE RELAY MODULE	HOCHKI #DCP-R2HL	7300-0410.0150	4" SQ. x 2 1/8" DP. OUTLET BOX	
V 15	VISUAL STROBE, WALL MOUNTED 15 CANDELA	HOCHKI #HE53-24WR	7125-0410.0188	4" SQ. x 2 1/8" DP. OUTLET BOX	
SV 15	SPEAKER/STROBE, WALL MOUNTED (CANDELA RATING AS NOTED)	HOCHKI #H55PK24WLPR	7320-0410.0195	4" SQ. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	PER DETAIL #3/E3.22
SV 15	SPEAKER/STROBE, CEILING MOUNTED (CANDELA RATING AS NOTED)	HOCHKI #H55PK24CLPR	7320-0410.0194	4" SQ. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	PER DETAIL #3/E3.22
W.P.	EXTERIOR WEATHERPROOF SPEAKER, WALL MOUNTED	GENTEX #W55PKR	7320-0569.0141	4" SQ. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	(C) (D)
E.O.L.	END OF LINE RESISTOR	HOCHKI			(A)
FA CABLE	ADDRESSABLE FIRE ALARM CABLE (INDOORS)	WINDY CITY WIRE #714100	7161-1727.0100		
SFA CABLE	ADDRESSABLE FIRE ALARM CABLE (OUTDOORS)	WINDY CITY WIRE #71310VNG	7161-1727.0100		
FSP CABLE	FIRE ALARM SPEAKER CABLE (INDOORS)	WINDY CITY WIRE #714100	7161-1727.0100		
SFSP CABLE	FIRE ALARM SPEAKER CABLE (OUTDOORS)	WINDY CITY WIRE #71410VNG	7161-1727.0100		

NOTES (FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS):

- (A) END OF LINE RESISTORS SHALL BE 10K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM CONTROL PANEL AND 2.2K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM POWER EXPANDER PANELS.
- (B) EXISTING BACKBOX (DSA #03-112253). PROVIDE NEW BATTERIES PER BATTERY CALCULATIONS.
- (C) PROVIDED WITH WEATHERPROOF BACKBOX #GBLP.
- (D) SEE RESPECTIVE FIRE ALARM PLAN FOR MOUNTING HEIGHT.
- (E) PROVIDE ACCESS PANEL AT INACCESSIBLE ATTIC SPACES AS REQUIRED FOR HEAT DETECTOR ACCESS.

SPEAKER dB LOSS CALCULATIONS												
SPEAKER CIRCUIT	SPEAKER VOLTAGE	WIRE SIZE	RESISTANCE PER FOOT	FEET REQUIRED ON CIRCUIT	WIRE RESISTANCE	TOTAL WATTAGE OF SPEAKERS ON CIRCUIT	SPEAKER CURRENT (AMPS)	RESISTANCE OF SPEAKER LOAD	WIRE SIZE	ACTUAL VOLTAGE AT SPEAKER LOAD	dB LOSS	
S1	70	18	0.01278	350	4.47	14	0.20	350.00	18	69.117	13.649	-0.11
S2	70	16	0.01278	430	5.50	17	0.24	288.24	16	68.690	16.370	-0.16
S3	70	16	0.01278	435	5.56	12	0.17	408.33	16	69.060	11.680	-0.12
S4	70	18	0.01278	545	6.97	11	0.16	445.45	18	68.922	10.664	-0.13

NOTE:
CALCULATIONS ARE BASED ON EACH OF THE 'INTERIOR' SPEAKERS TAPPED AT 1 WATT AND EACH OF THE 'EXTERIOR' SPEAKERS TAPPED AT 2 WATTS.

VOLTAGE DROP CALCULATIONS (OHMS LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE B, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT / 1)

PERCENT VOLTAGE DROP = (VOLTAGE DROP / NOMINAL VOLTAGE) x 100

1. NOTIFICATION APPLIANCE CIRCUIT 'N1':

V 15 : 5 x 0.043A = 0.215A

V 75 : 4 x 0.107A = 0.428A

SV 15 : 4 x 0.107A = 0.428A

VOLTAGE DROP = 2 (0.98) (340 / 1000) (1.07) = 1.442 V.D.

PERCENT VOLTAGE DROP = (1.442 / 24) x 100 = 6.01%

1. NOTIFICATION APPLIANCE CIRCUIT 'N2':

V 15 : 4 x 0.043A = 0.172A

SV 15 : 5 x 0.063A = 0.315A

VOLTAGE DROP = 2 (0.98) (380 / 1000) (0.487) = 0.733 V.D.

PERCENT VOLTAGE DROP = (0.733 / 24) x 100 = 3.05%

1. NOTIFICATION APPLIANCE CIRCUIT 'N3':

V 15 : 5 x 0.043A = 0.215A

SV 15 : 1 x 0.063A = 0.063A

V 15 : 5 x 0.063A = 0.315A

VOLTAGE DROP = 2 (0.98) (420 / 1000) (0.593) = 0.986 V.D.

PERCENT VOLTAGE DROP = (0.986 / 24) x 100 = 4.11%

FIRE ALARM SYSTEM GENERAL NOTES	
1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.	19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.	20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE 'ON' POSITION. THE CIRCUIT BREAKER SHALL BE LABELED 'FIRE ALARM CIRCUIT CONTROL'. CIRCUIT TO BE LABELED AT FIRE PANELS/EXTENDERS.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72 14.6.2.4 AND FIGURE 7.8.2(a) AND READ OUT VERIFICATION FROM CENTRAL STATION.	21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED SYSTEM RECORD OF COMPLETION PER NFPA 72, FIGURE 718.2.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.	22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.	23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (E.V.A.O.) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 1B-305 AND 1B-308.
6. DSA ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.	24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7. UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.	25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.	26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.	27. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF MODIFICATIONS AT EXISTING FIRE ALARM CONTROL PANEL 'F.A.C.P. #A'. AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY 'D.A.P.S. #A' AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL 'P.E.P. #R'.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE dBA ABOVE THE MAXIMUM SOUND LEVEL, HAVING A DURATION OF AT LEAST 90 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPABLE SPACE WITHIN THE BUILDING.	A. THE PRIMARY POWER SUPPLY TO EXISTING FIRE ALARM CONTROL PANEL 'F.A.C.P. #A', TO EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY 'D.A.P.S. #A' AND TO EXISTING FIRE ALARM POWER EXPANDER PANEL 'P.E.P. #R' SHALL BE IN ACCORDANCE WITH NFPA 72 10.6.5 AND AS FOLLOWS: <ul style="list-style-type: none"> a) THE CIRCUIT BREAKER FEEDING THE RESPECTIVE PANEL SHALL BE LOCATED IN A LOCKED ROOM OR BEHIND A LOCKABLE DOOR AND BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL ONLY. b) THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PAINT LOCK-ON ACCESSORY RED IN COLOR. c) THE CIRCUIT BREAKER SHALL HAVE AN ENGRAVED NAMEPLATE THAT IDENTIFIES IT AS A FIRE ALARM CIRCUIT. THIS ENGRAVED NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. MOUNT ONTO THE INTERIOR TRIM AND LOCATE ADJACENT TO CIRCUIT BREAKER WHERE POSSIBLE. d) THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT EXISTING FIRE ALARM CONTROL PANEL 'F.A.C.P. #A', AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY 'D.A.P.S. #A' AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL 'P.E.P. #R'. PROVIDE AN ENGRAVED NAMEPLATE (WHITE LETTERS ON A RED BACKGROUND) WHICH INDICATES THIS.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN FOR A FIRE ALARM SIGNAL. AUDIBLE DEVICES SHALL ALSO SOUND A TEMPORAL CODE 4 PATTERN FOR A CARBON MONOXIDE SIGNAL. THE EXISTING FIRE ALARM CONTROL PANEL WILL PRODUCE GENERATE BOTH SIGNALS.	B. ALL ENGRAVED NAMEPLATES SHALL BE ATTACHED TO THE FRONT OF THE RESPECTIVE ENCLOSURE WITH SCREWS OR RIVETS.
12. THE CONTRACTOR SHALL ADJUST INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.	28. PROVIDE A COPY OF THE BATTERY CALCULATION AT EXISTING FIRE ALARM CONTROL PANEL 'F.A.C.P. #A', AT EXISTING DIGITAL AMPLIFIER/ADDRESSABLE POWER SUPPLY 'D.A.P.S. #A', AND AT EXISTING FIRE ALARM POWER EXPANDER PANEL 'P.E.P. #R'. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.	
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.	
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLEND) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.	
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.	
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.	
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILING, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.	

FIRE ALARM POWER EXPANDER PANEL 'P.E.P. #1' BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH		ALARM CURRENT EACH	
		SUB-TOTAL	SUB-TOTAL	SUB-TOTAL	SUB-TOTAL
EXPANDER PANEL	1	0.09	0.09	0.175	0.175
15cd STROBE (WALL)	1	---	---	0.043	0.344
75cd STROBE (WALL)	4	---	---	0.107	0.428
SPEAKER/75cd STROBE (WALL)	4	---	---	0.107	0.428
SPEAKER/30cd STROBE (CEILING)	5	---	---	0.063	0.315
TOTALS		0.09		1.690	

TOTAL ALARM CURRENT OF 1.690 x 0.250 (5 MINUTES) = 0.423 A.H.
TOTAL SUPERVISORY CURRENT OF 0.09 x 24 HOURS = 2.16 A.H.
TOTAL AMP HOURS REQUIRED = 2.58 A.H.
x 1.2 SAFETY FACTOR
3.10 A.H.

PROVIDE 7.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

FIRE ALARM POWER EXPANDER PANEL 'P.E.P. #2' BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH		ALARM CURRENT EACH	
		SUB-TOTAL	SUB-TOTAL	SUB-TOTAL	SUB-TOTAL
EXPANDER PANEL	1	0.09	0.09	0.175	0.175
15cd STROBE (WALL)	13	---	---	0.043	0.559
SPEAKER/30cd STROBE (WALL)	1	---	---	0.063	0.063
SPEAKER/30cd STROBE (CEILING)	15	---	---	0.063	0.945
TOTALS		0.09		1.74	

TOTAL ALARM CURRENT OF 1.74 x 0.250 (5 MINUTES) = 0.435 A.H.
TOTAL SUPERVISORY CURRENT OF 0.09 x 24 HOURS = 2.16 A.H.
TOTAL AMP HOURS REQUIRED = 2.60 A.H.
x 1.2 SAFETY FACTOR
3.12 A.H.

PROVIDE 7.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

FIRE ALARM CONTROL PANEL 'F.A.C.P.' BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPV. CURRENT EACH		ALARM CURRENT EACH	
		SUB-TOTAL	SUB-TOTAL	SUB-TOTAL	SUB-TOTAL
FIRE ALARM CONTROL PANEL	1	0.350	0.350	0.620	0.620
EXISTING DEVICES	1	-	-	3.500	3.500
POWER EXPANDER PANEL	2	0.00013	0.00026	0.00013	0.00026
SMOKE DETECTOR	110	0.00045	0.0495	0.00054	0.0594
HEAT DETECTOR	18	0.00035	0.0063	0.00035	0.0063
MONITOR MODULE	5	0.00063	0.00315	0.00063	0.00315
CONTROL RELAY	5	0.00035	0.00175	0.00041	0.00205
TOTALS			0.411		4.222

TOTAL ALARM CURRENT OF 4.222 x 0.250 (5 MINUTES) = 1.056 A.H.
TOTAL SUPERVISORY CURRENT OF 0.411 x 24 HOURS = 9.857 A.H.
TOTAL AMP HOURS REQUIRED = 10.913 A.H.
x 1.2 SAFETY FACTOR
13.10 A.H.

PROVIDE 18.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AUDIO AMPLIFIER.

(B) FAEP SHOWN WITH MAXIMUM SUPERVISORY CURRENT FOR EXISTING DEVICES.

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15dB ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDINGS.

AMBIENT NOISE LEVELS SHALL BE CONTROLLED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 92000 AND 93004, AND BE A TEMPORAL PATTERN, CODE 3 AND THEN FOLLOWED BY ANY VOICE MESSAGES.

SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA EDUCATION CODE, SECTION 907.2.3, CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 907.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY. NFPA 72. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING FIRE AGENCY.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM CERTIFICATE OF COMPLETION FORM IN NFPA 72 SHALL BE COMPLETED, SIGNED AND SUBMITTED.

SCOPE OF WORK

- CONNECT NEW DEVICES TO EXISTING AUTOMATIC FIRE ALARM SYSTEM FOR AREAS OF REMODEL INCLUDING INITIATING AND NOTIFICATION DEVICES.
- PROVIDE FIRE ALARM POWER EXPANDER PANELS, ADDRESSABLE INITIATION DEVICES NOTIFICATION APPLIANCES, CONDUIT, CABLES, AND CONDUCTORS AS SHOWN ON THE DRAWINGS.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER LULX (CENTRAL STATION OR LULX (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 307. SUPERVISORY OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

THE SCHOOL DISTRICT SHALL PROVIDE A ON-SITE FIRE WATCH IN THE EVENT THAT THE EXISTING FIRE ALARM SYSTEM IS IMPAIRED AND/OR INTERRUPTED DURING CONSTRUCTION PER CALIFORNIA FIRE CODE, SECTION 3304, ARTICLE 3304.5.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

RESULT OF OPERATION	TYPE OF INITIATION				
	AREA SMOKE/HEAT DETECTOR (1)	LOSS OF POWER	SHORT CIRCUIT/GROUND FAULT	SPEAKER DETECTOR FOR DOOR RELEASES	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
ANNUNCIATE ALARM AT FIRE ALARM CONTROL PANEL	YES	---	---	YES	YES
ANNUNCIATE TROUBLE AT FIRE ALARM CONTROL PANEL	---	YES	YES	---	---
ANNUNCIATE SUPERVISORY AT FIRE ALARM CONTROL PANEL	---	---	---	---	---
ACTIVATE ALL AUDIBLE AND VISUAL ALARM SIGNALS	YES	---	---	YES	YES
TRANSFER TO BATTERY BACK-UP	---	YES	---	---	---
SHUTDOWN RESPECTIVE A/C UNIT	YES	---	---	---	---
CLOSE SMOKE/FIRE DAMPER	YES	YES	---	---	---
ANNUNCIATE AT 24 HR ATTENDED LOCATION	YES	YES	---	---	YES
CENTRAL STATION FOR MONITORING (ALARM)	YES	---	---	---	YES
CENTRAL STATION FOR MONITORING (TROUBLE)	---	YES	---	---	---
CENTRAL STATION FOR MONITORING (SUPERVISORY)	---	---	---	---	---

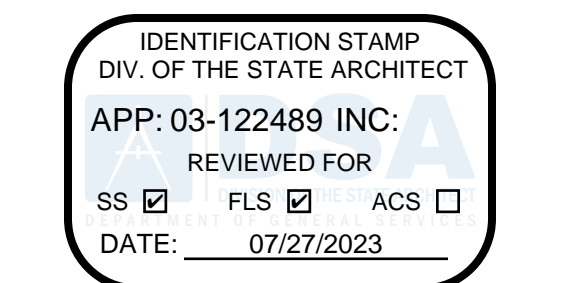
(1) THIS OPERATION SHALL BE ACCOMPLISHED BY UTILIZING THE TOTAL SMOKE COVERAGE SYSTEM TO ACTIVATE THE RESPECTIVE RELAY MODULE. THE CONTACTS SHALL BE PROGRAMMED TO OPEN; THIS DE-ENERGIZING THE 120V POWER TO THE ACTUATOR OF THE SMOKE/FIRE DAMPER OR OPENING THE H.V.A.C. CONTROL CIRCUIT.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA.

UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).



Owner:

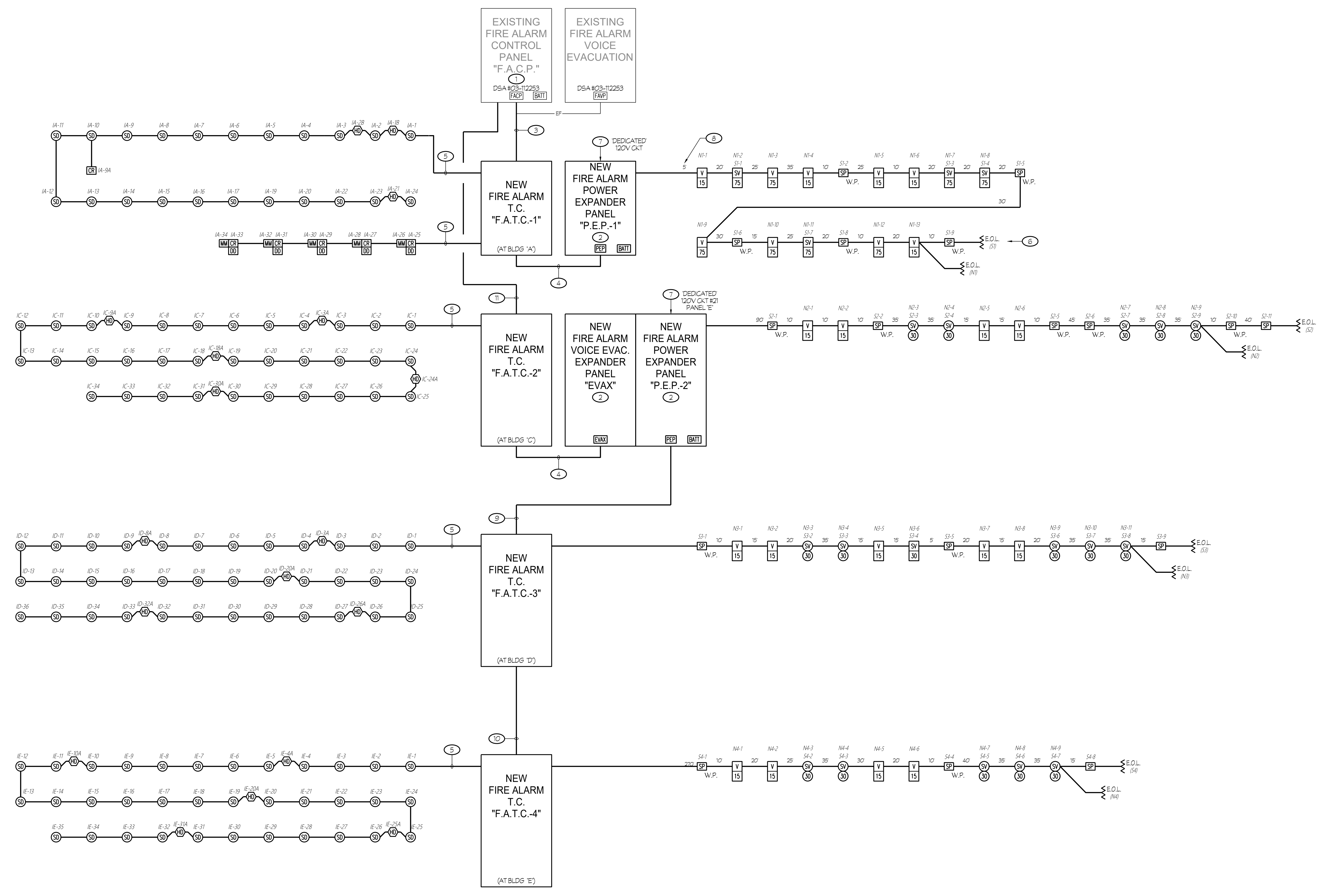
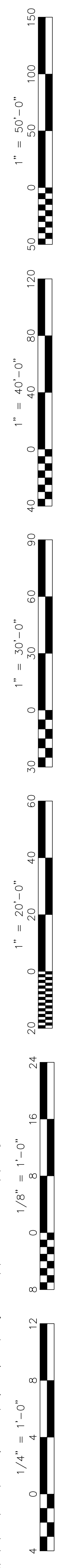
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309


Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL<

NOTES (THIS SHEET ONLY):

- 1 PROVIDE ALL PROGRAMMING NECESSARY FOR NEW COMPONENTS AND EXISTING FIRE ALARM DEVICES AS REQUIRED.
- 2 PROVIDE BATTERIES PER RESPECTIVE BATTERY CALCULATION.
- 3 EXISTING 2C, NEW - TWO 'SFA' CABLES, ONE 'SFSP' CABLE + ONE 2C SPARE.
- 4 1C - ONE 'SFA' CABLE.
- 5 REFER TO RESPECTIVE FIRE ALARM PLAN FOR CONDUIT AND CABLING/CONDUCTOR REQUIREMENTS, TYPICAL.
- 6 DENOTES END OF LINE RESISTOR ON NOTIFICATION APPLIANCE CIRCUIT. RESISTORS SUPPLIED WITH CONTROL/EXPANDER PANELS AS REQUIRED. LOCATE RESISTORS AT END OF LINE APPLIANCES (CLASS 'B' WIRING), TYPICAL.
- 7 CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PROVIDE AN ENGRAVED NAMEPLATE: 'FIRE ALARM - LEAVE ON'. NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND, PAINT LOCK-ON ACCESSORY RED IN COLOR.
- 8 LENGTHS INDICATED WERE USED FOR CALCULATIONS, DESIGN PURPOSES ONLY AND BASED UPON THE DIAGRAMMATIC LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.
- 9 1 1/2" - ONE SFA CABLE, TWO SFSP CABLES, 4 #12 (NAC).
- 10 1 1/2" - ONE SFA CABLE, ONE SFSP CABLE, 2 #12 (NAC).
- 11 EXISTING CONDUIT - NEW TWO SFA CABLES, ONE SFSP CABLE.



Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309


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 by SOMAM, Inc.

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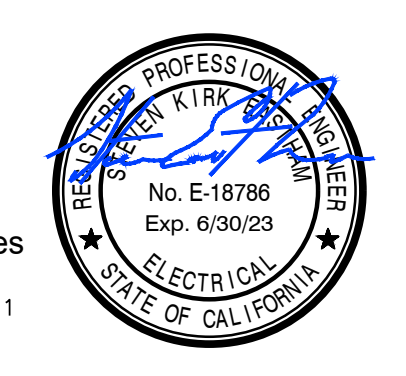
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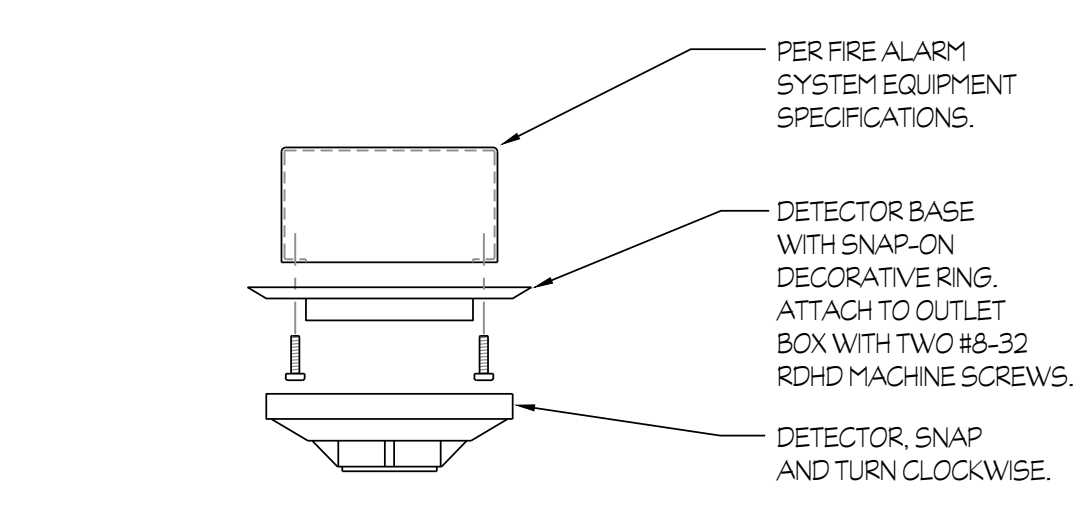
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FIRE ALARM SYSTEM RISER DIAGRAM

Job No.:
5524

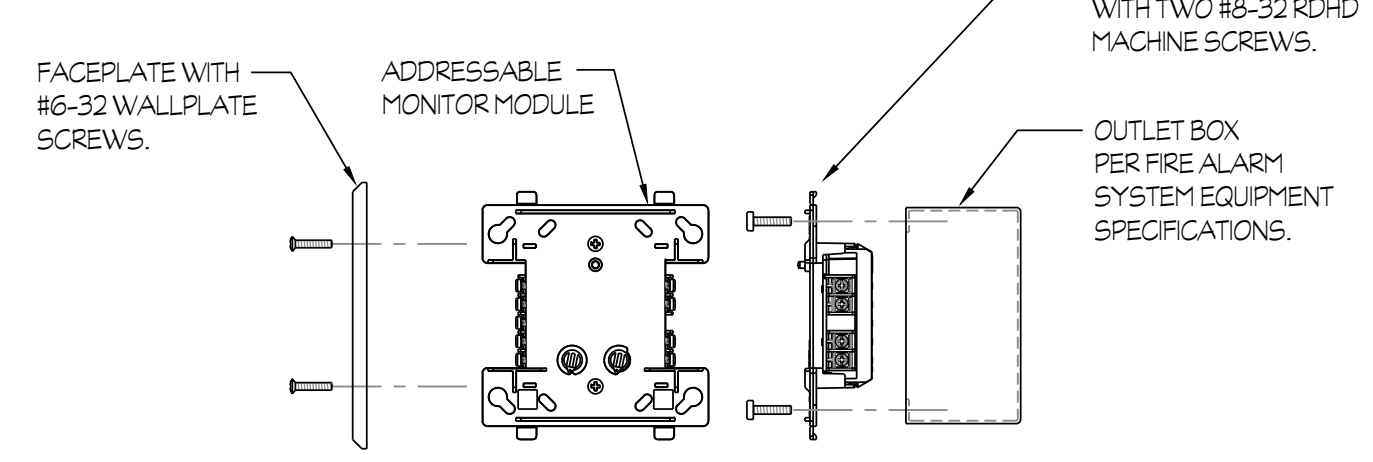
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E3.21



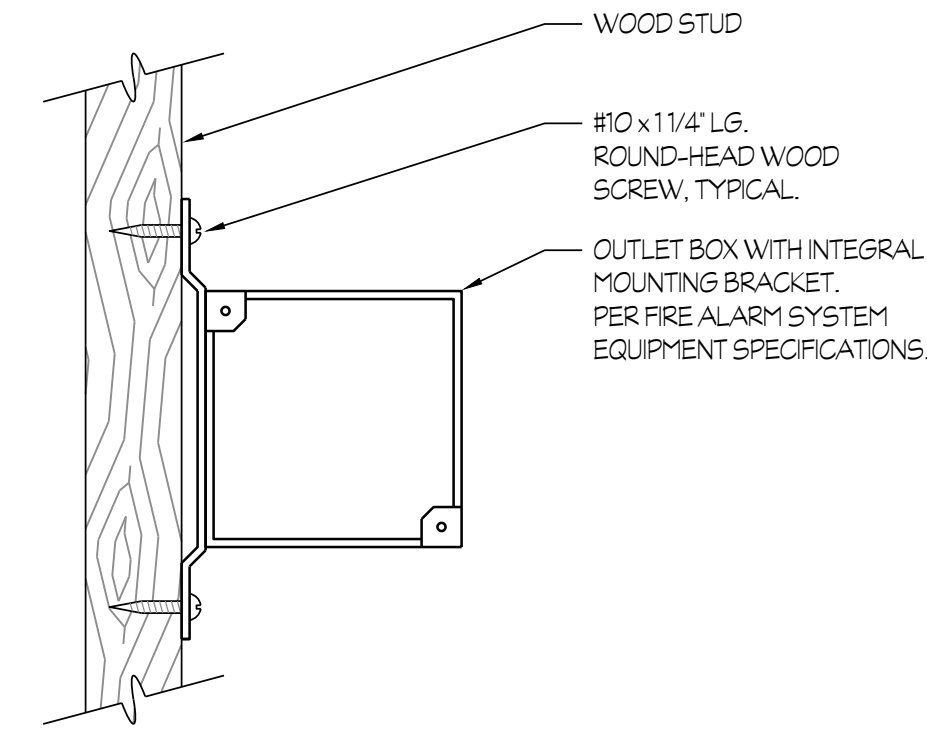
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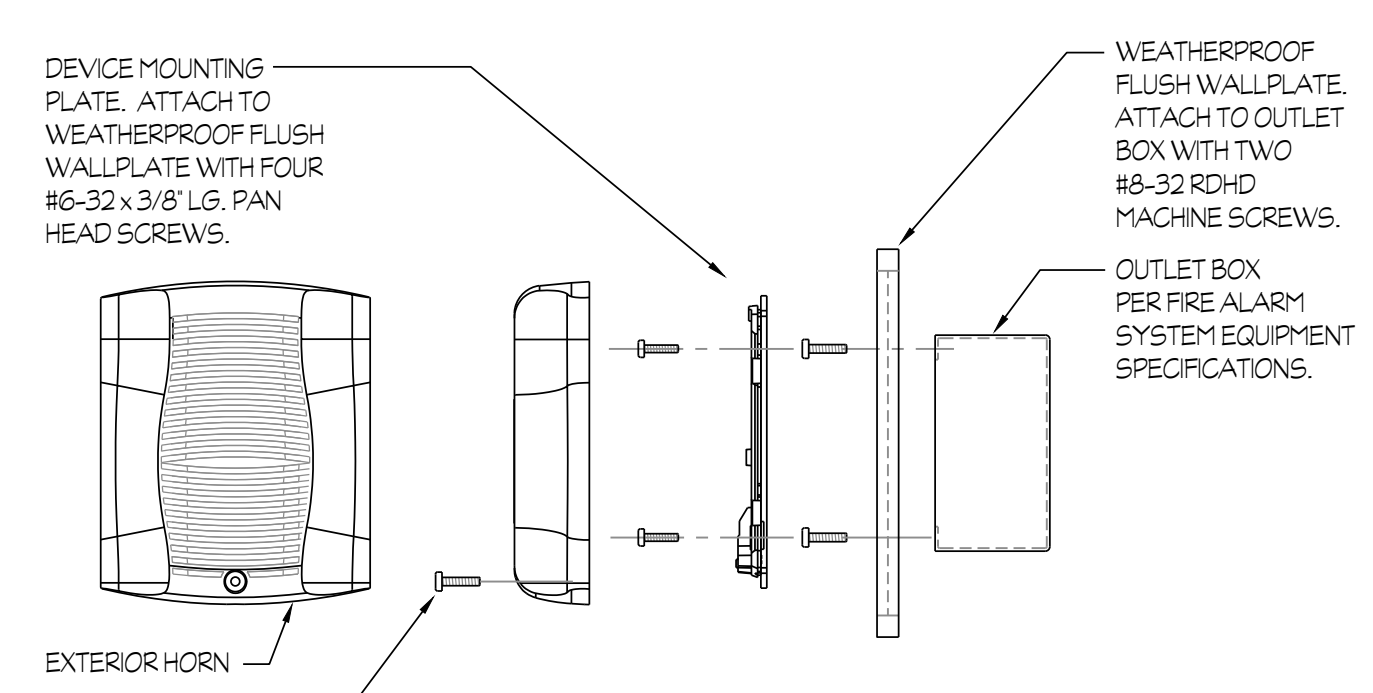
ADDRESSABLE SMOKE OR HEAT DETECTOR



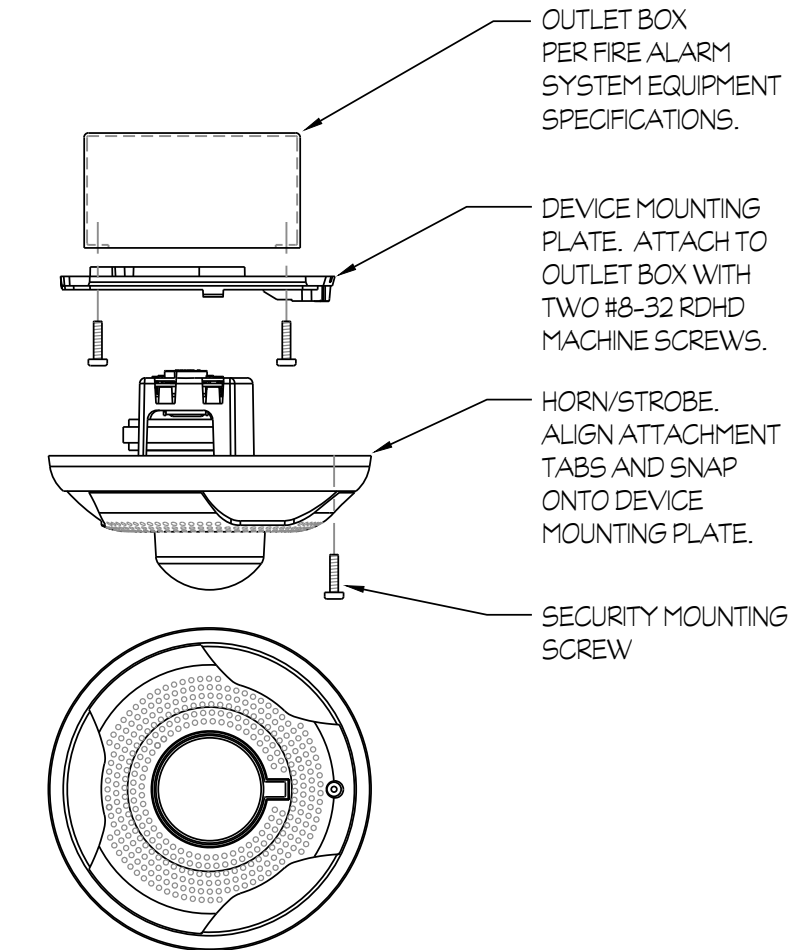
ADDRESSABLE MONITOR MODULE (SIMILAR MOUNTING FOR ADDRESSABLE DUAL MONITOR, SUPERVISED OUTPUT, AND RELAY CONTROL MODULES)



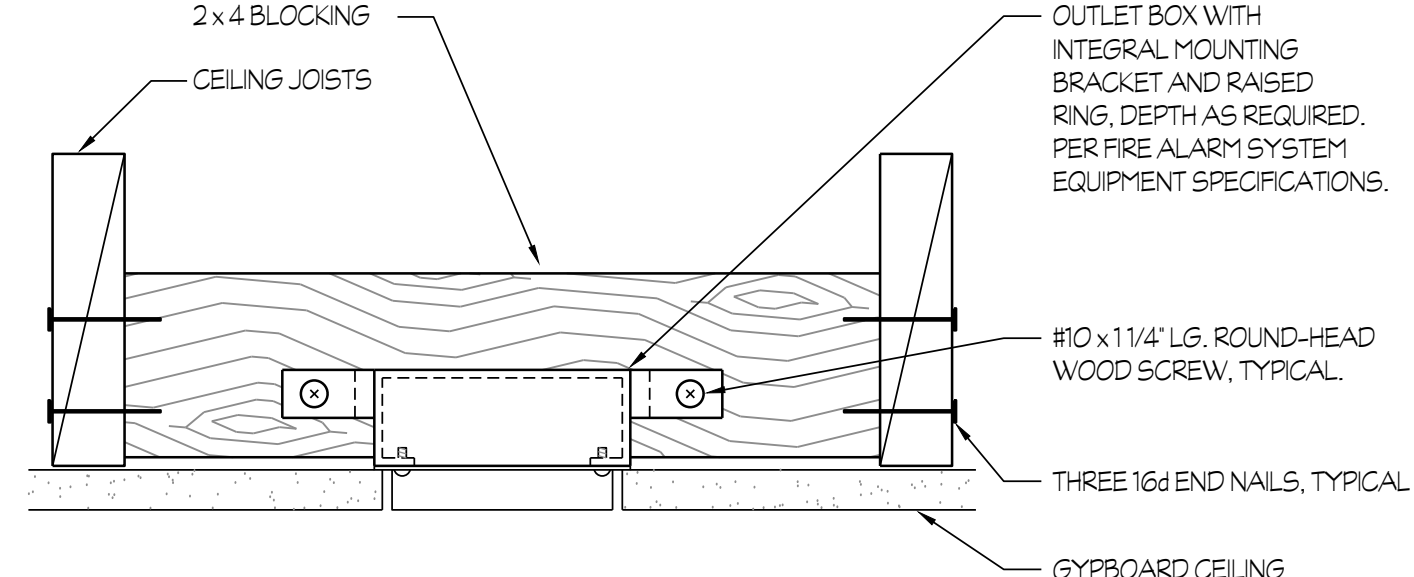
OUTLET BOX MOUNTING ONTO WOOD STUD (SIMILAR MOUNTING FOR OUTLET BOX AT CEILING JOISTS)



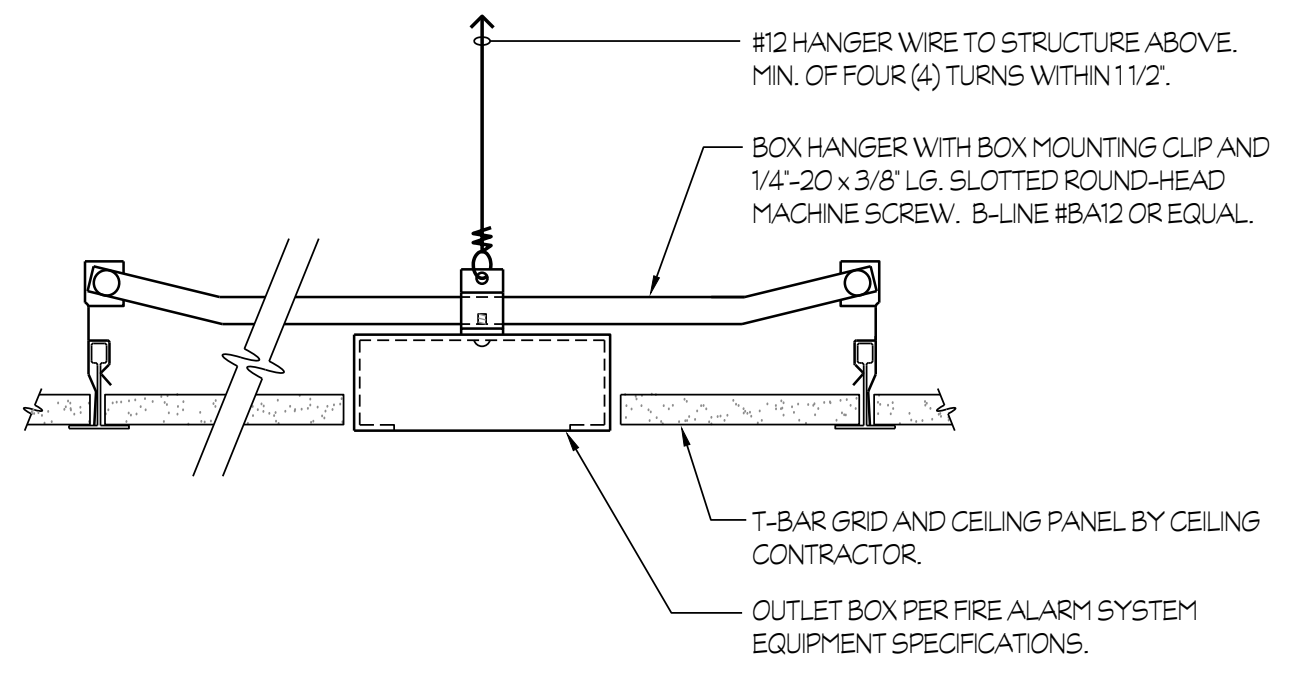
EXTERIOR HORN (WITH WEATHERPROOF FLUSH WALLPLATE (W/F))



CEILING HORN/STROBE

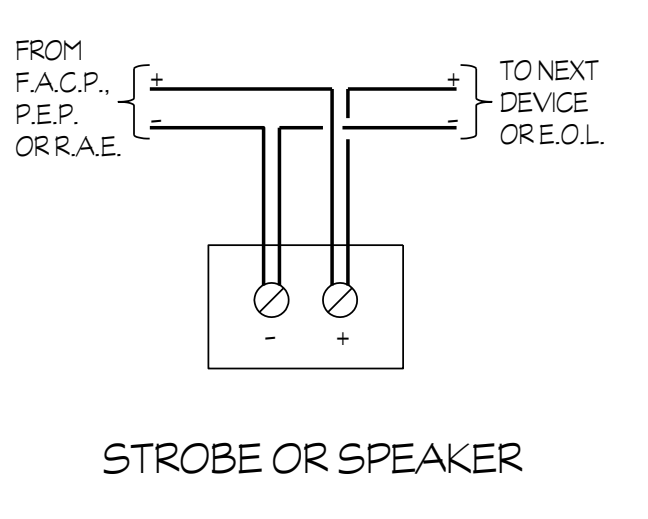


OUTLET BOX MOUNTING AT CEILING JOIST (SIMILAR MOUNTING FOR OUTLET BOX BETWEEN WOOD STUDS)

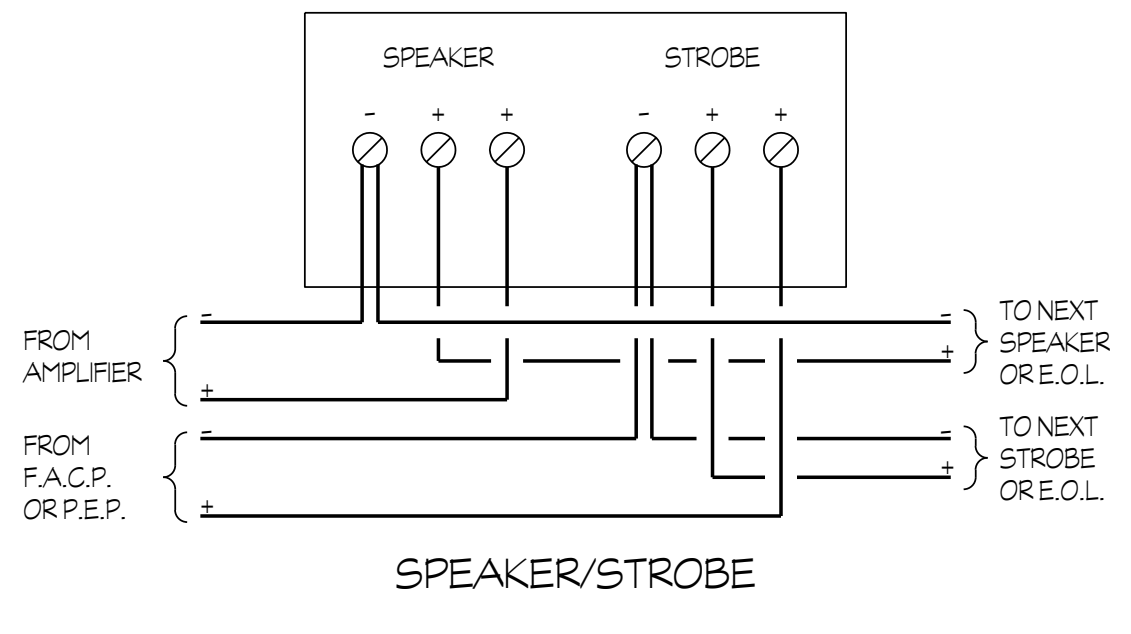


OUTLET BOX MOUNTING AT SUSPENDED T-BAR CEILING

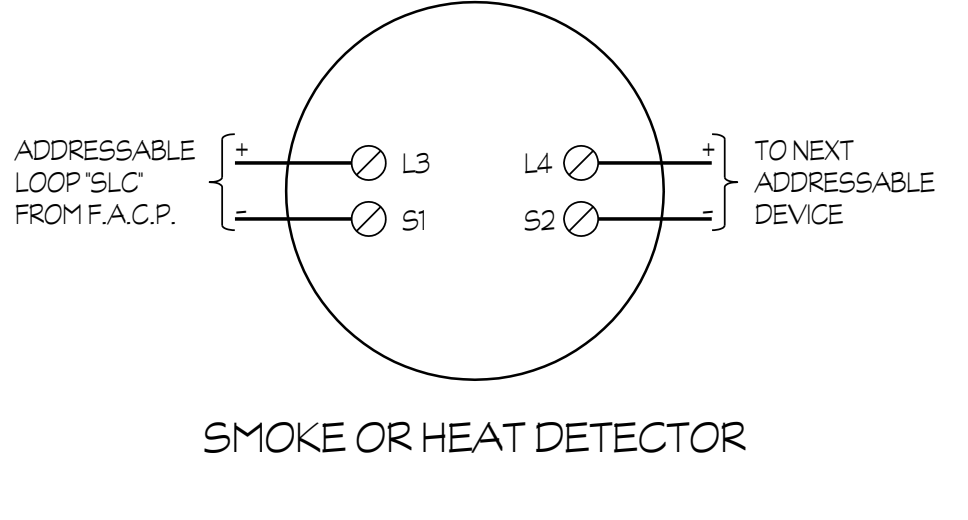
1 FIRE ALARM DEVICES MOUNTING



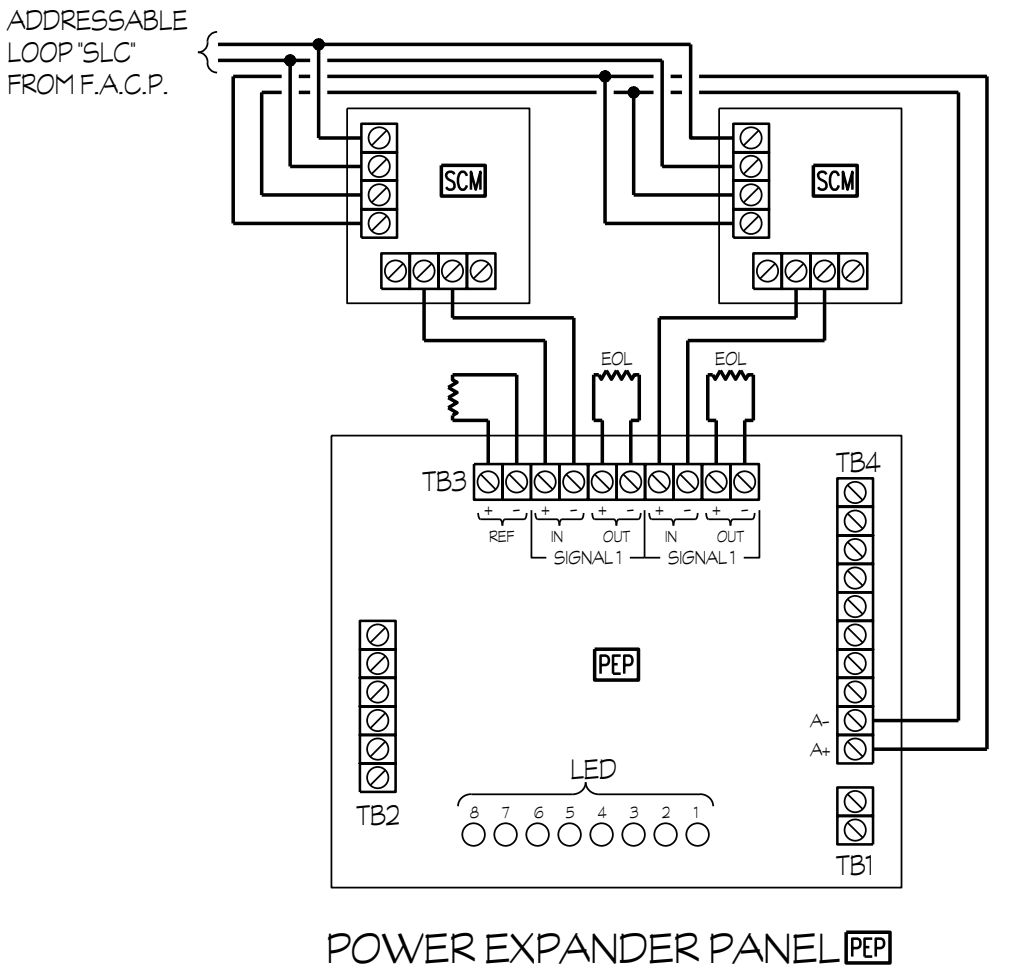
STROBE OR SPEAKER



SPEAKER/STROBE

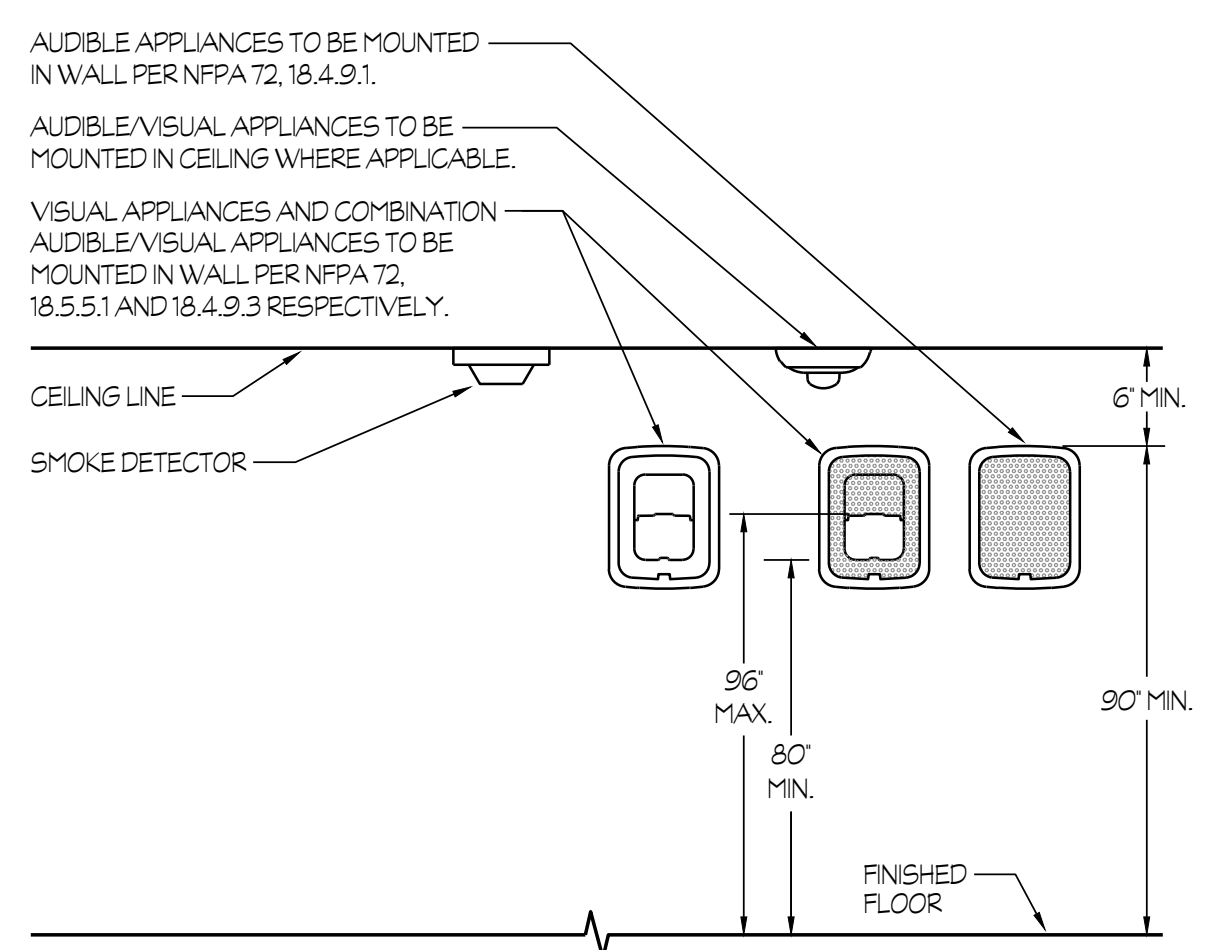


SMOKE OR HEAT DETECTOR

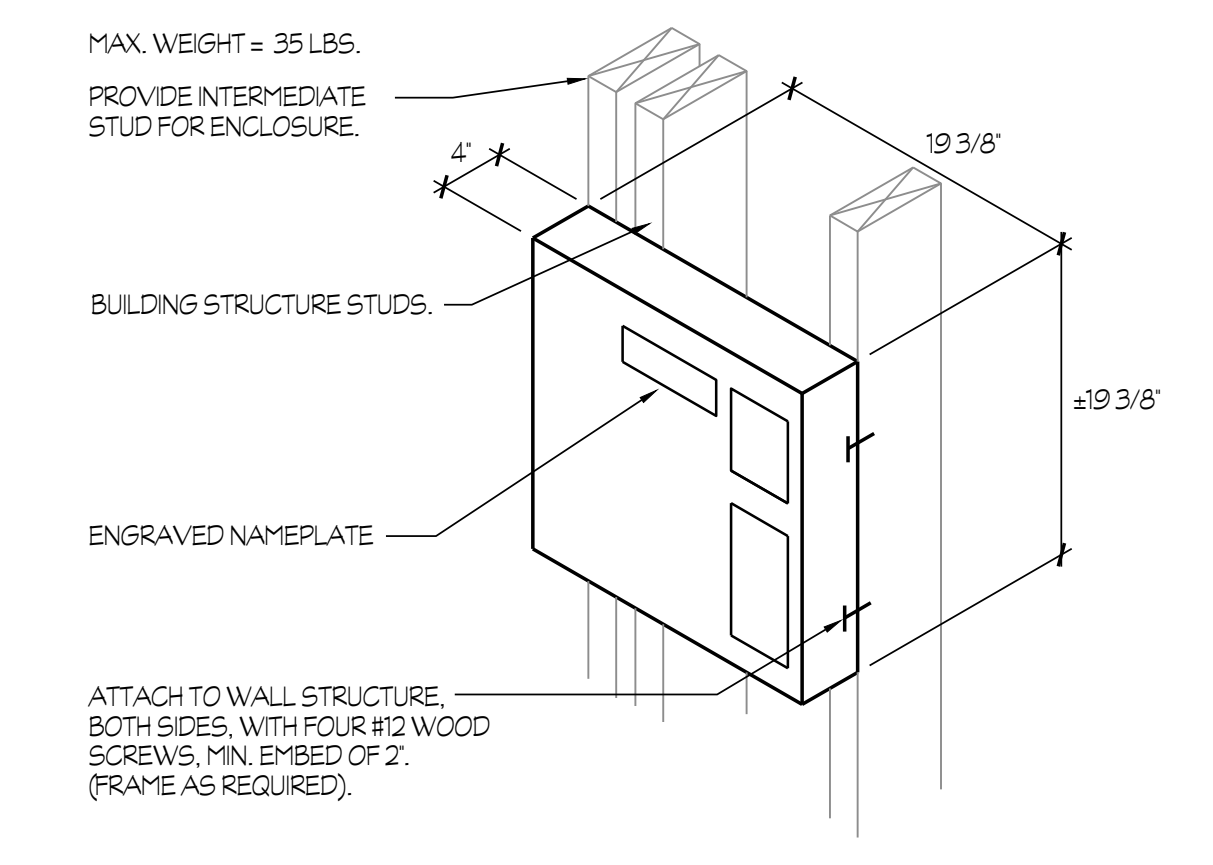


POWER EXPANDER PANEL (PEP)

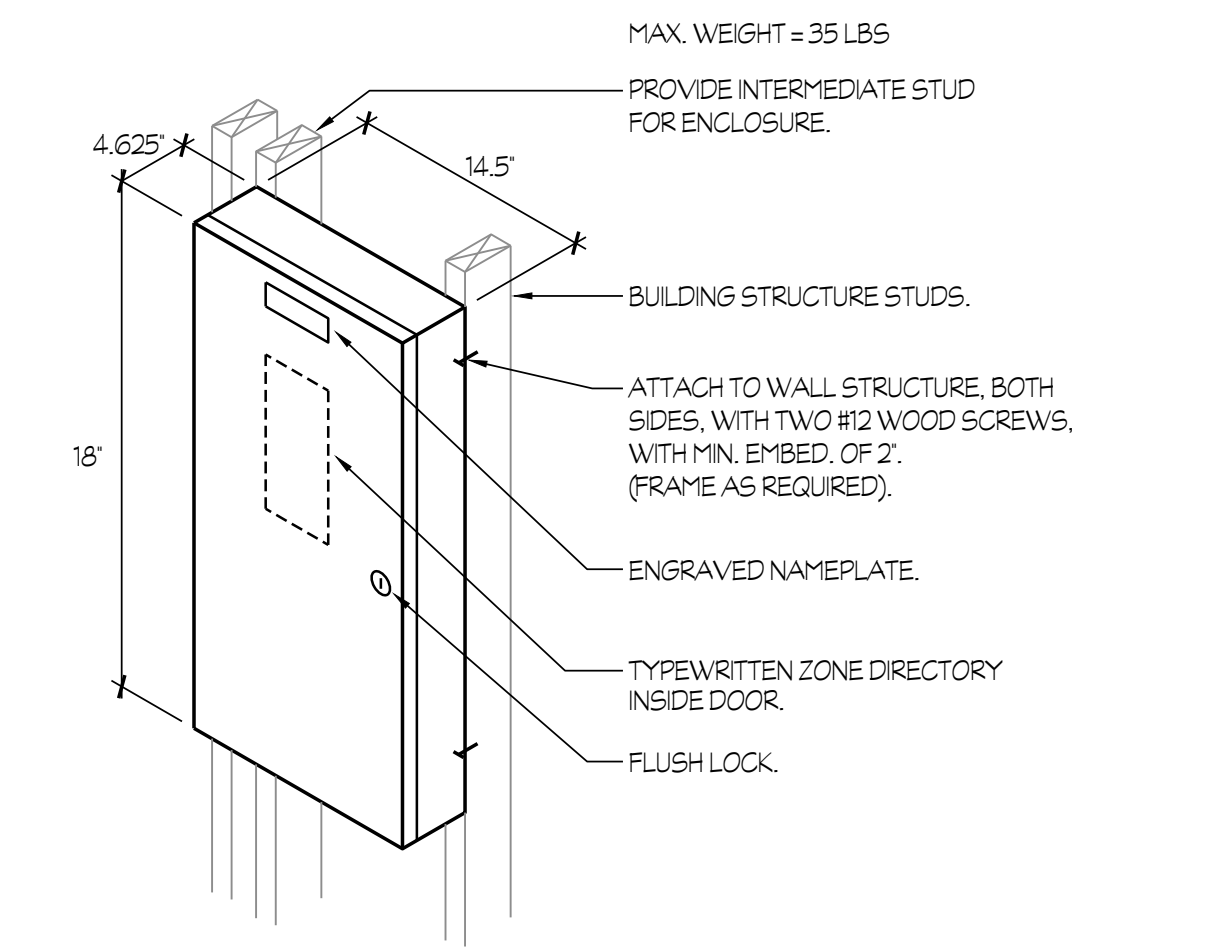
2 FIRE ALARM DEVICES WIRING DIAGRAMS



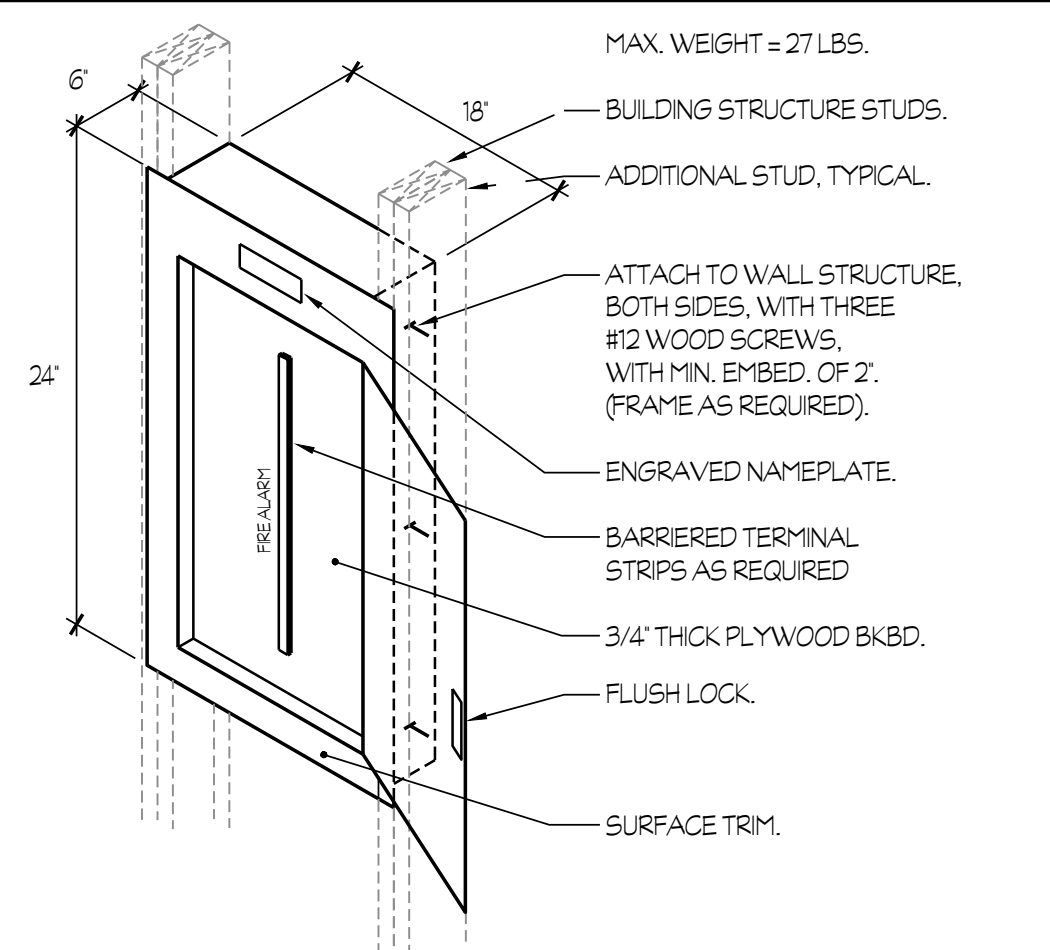
3 FIRE ALARM DEVICES ELEVATION



4 VOICE EVACUATION PANEL MOUNTING



5 FIRE ALARM POWER EXPANDER PANEL 'P.E.P.' MOUNTING



6 FIRE ALARM TERMINAL CABINET 'F.A.T.C.' MOUNTING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023

Owner:
BCSD
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
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Sheet Title:
FIRE ALARM DETAILS

Job No.:
5524

Sheet No.:
E3.22

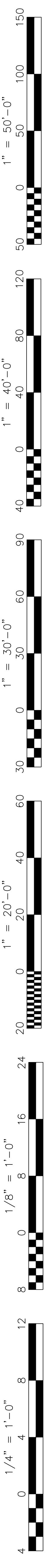
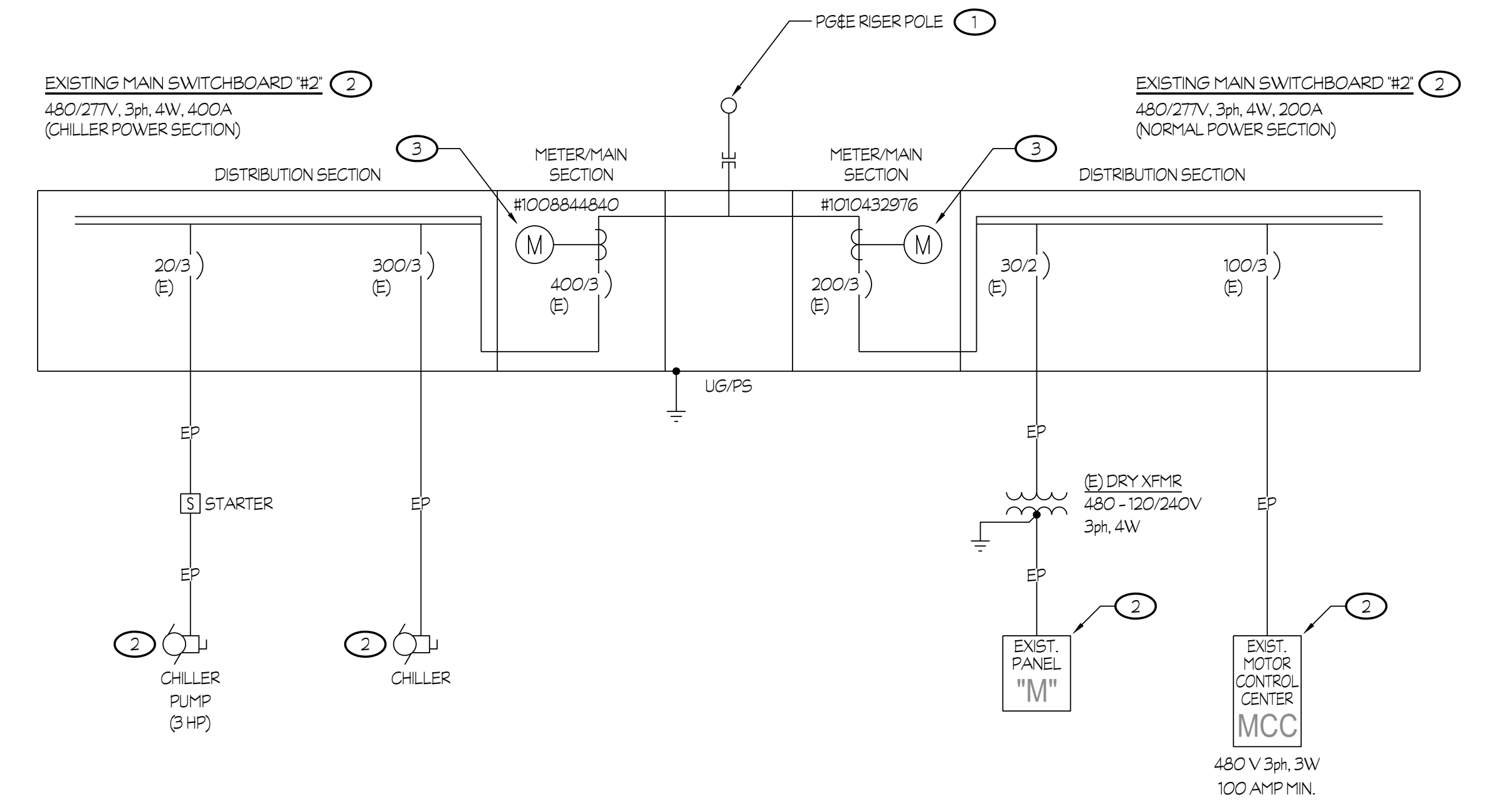
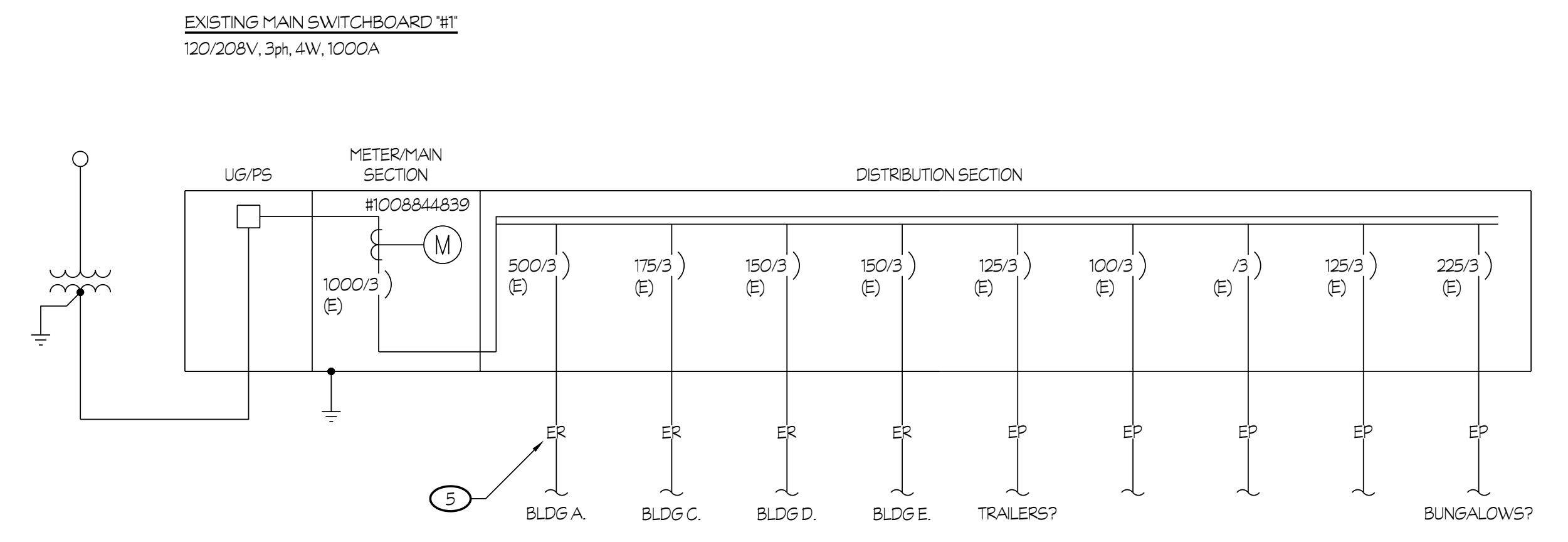
Release: DSA BACKCHECK Issue Date: 06-14-2023

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunwoorth - (559) 733-2671
Visalia, California 93292-6705



NOTES (THIS SHEET ONLY):

- 1 EXISTING UTILITY FEED SHALL BE DISCONNECTED. PROVIDE NEW CONNECTION FROM NEW BOARD #16B2 TO FEED EXISTING BOARD DURING CONSTRUCTION, AS SHOWN ON SHEET E4.01.
- 2 EXISTING CHILLER EQUIPMENT SHALL REMAIN IN SERVICE DURING CONSTRUCTION ACTIVITIES. EQUIPMENT SHALL BE DISCONNECTED AND REMOVED AT THE END OF NEW CONSTRUCTION.
- 3 RETURN UTILITY METER EQUIPMENT TO UTILITY COMPANY AND PROVIDE CONNECTION TO POWER DISTRIBUTION BOARDS.
- 4 _____ DENOTES EXISTING FEEDER AND/OR SPARE CONDUIT(S) SHALL REMAIN, UNLESS OTHERWISE NOTED.
- 5 _____ DENOTES EXISTING BRANCH CIRCUITING/HOMERUN TO BE REMOVED.



1 EXISTING ONE LINE DIAGRAM

SCALE: NTS

**EQUIPMENT BID PACKAGE
 12/5/22**

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NEW MAIN SWBD 'MSB2' LOAD CALCULATION:

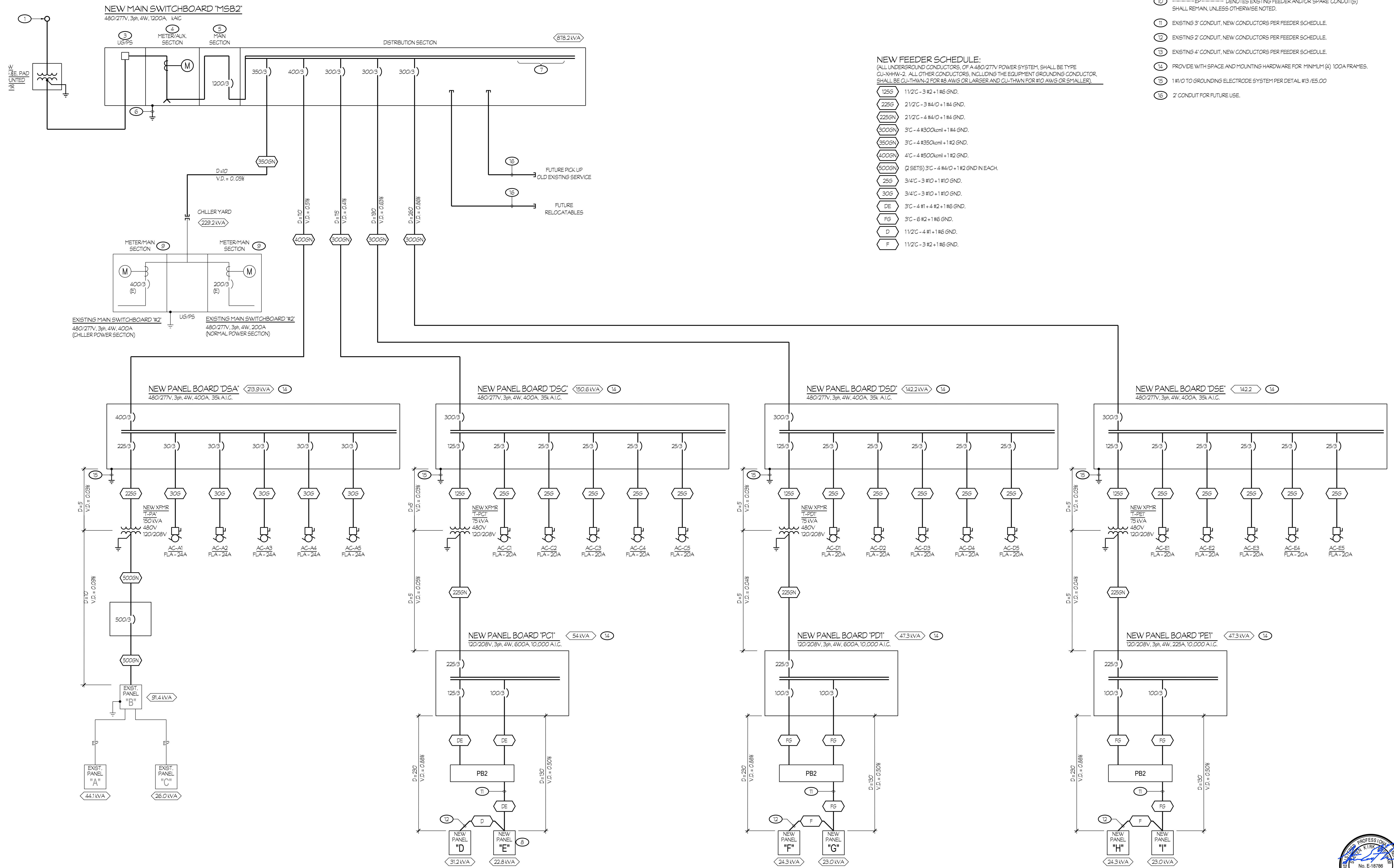
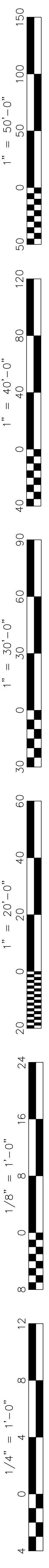
MAXIMUM DEMAND PER P.G. & E. RECORDS.....	114.6 kW
FOR MAIN SWBD '42' TBV.....	
PLUS DEMAND FACTOR PER C.E.C. 220.35.....	28.7 kVA
SUB-TOTAL.....	143.3 kVA
NEW 'CONNECTED' LOAD BEING ADDED.....	649.0 kVA
BUILDINGS A.C.D.E.....	300 kVA
H.V.A.C. x125%.....	349 kVA
SUB-TOTAL.....	792.3 kVA
AT 480/277V, 3ph, 4W.....	953 AMP'S

THEREFORE, THE NEW 1200 AMP MAIN SWITCHBOARD IS SUFFICIENT.

- NOTES (THIS SHEET ONLY):**
- EXISTING P.G. & E. POWER POLE. VERIFY EXACT LOCATION AND RISER QUADRANT WITH P.G. & E. PRIOR TO ROUGH-IN.
 - PROVIDE A 106" x 90" CONCRETE PAD (STYLE 11 E) AND GROUNDING FOR P.G. & E. PAD MOUNTED TRANSFORMER PER P.G. & E. REQUIREMENTS.
 - PROVIDE LANDING LUGS PER P.G. & E. REQUIREMENTS.
 - PROVIDE METERING FACILITIES PER P.G. & E. REQUIREMENTS.
 - MAIN CIRCUIT BREAKER SHALL BE 100% RATED ELECTRONIC TYPE, EQUIPPED WITH LONG-TIME, SHORT-TIME, INSTANTANEOUS-OFF TYPE AND GROUND FAULT TYPE CONFIGURATIONS. MAIN CIRCUIT BREAKER SHALL ALSO BE EQUIPPED WITH A TRIP INDICATOR AND LOCAL CURRENT METER. SQUARE D HRK SERIES OR EQUAL.
 - 1 #3/0 TO GROUNDING ELECTRODE SYSTEM PER DETAIL #12 / E5.00
 - PROVIDE WITH SPACE AND MOUNTING HARDWARE FOR MINIMUM (4) 400A FRAMES.
 - REFER TO PANEL SCHEDULE ON SHEET E4.02 FOR ADDITIONAL INFORMATION. TYPICAL FOR NEW PANELS SHOWN.
 - DISCONNECT EXISTING NEUTRAL - GROUND LINK AND RECONNECT TO NEW GROUND + NEUTRAL CONDUCTORS AS REQUIRED.
 - EP----- DENOTES EXISTING FEEDER AND/OR SPARE CONDUIT(S) SHALL REMAIN, UNLESS OTHERWISE NOTED.
 - EXISTING 3" CONDUIT, NEW CONDUCTORS PER FEEDER SCHEDULE.
 - EXISTING 2" CONDUIT, NEW CONDUCTORS PER FEEDER SCHEDULE.
 - EXISTING 4" CONDUIT, NEW CONDUCTORS PER FEEDER SCHEDULE.
 - PROVIDE WITH SPACE AND MOUNTING HARDWARE FOR MINIMUM (4) 100A FRAMES.
 - 1 #1/0 TO GROUNDING ELECTRODE SYSTEM PER DETAIL #13 / E5.00
 - 2" CONDUIT FOR FUTURE USE.

NEW FEEDER SCHEDULE:
ALL UNDERGROUND CONDUCTORS, OF A 480/277V POWER SYSTEM, SHALL BE TYPE CU-XHHW-2. ALL OTHER CONDUCTORS, INCLUDING THE EQUIPMENT GROUNDING CONDUCTOR, SHALL BE CU-THWN-2 FOR #8 AWG OR LARGER AND CU-THWN FOR #10 AWG OR SMALLER.

125G	1 1/2" C - 3 #2 + 1 #6 GND.
225G	2 1/2" C - 3 #4/0 + 1 #4 GND.
225GN	2 1/2" C - 4 #4/0 + 1 #4 GND.
300GN	3" C - 4 #500kcmil + 1 #4 GND.
350GN	3" C - 4 #350kcmil + 1 #2 GND.
400GN	4" C - 4 #500kcmil + 1 #2 GND.
500GN	(2 SETS) 3" C - 4 #4/0 + 1 #2 GND IN EACH.
25G	3/4" C - 3 #10 + 1 #10 GND.
30G	3/4" C - 3 #10 + 1 #10 GND.
DE	3" C - 4 #1 + 4 #2 + 1 #6 GND.
FG	3" C - 6 #2 + 1 #6 GND.
D	1 1/2" C - 4 #1 + 1 #6 GND.
F	1 1/2" C - 3 #2 + 1 #6 GND.

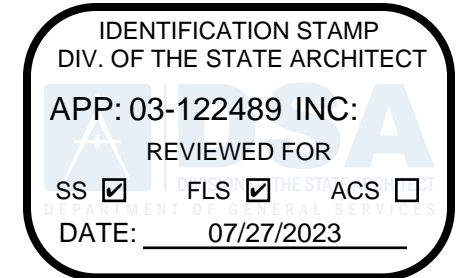


1 NEW ONE LINE DIAGRAM

SCALE: NTS

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Visalia, California 93292-6705





BAKERSFIELD CITY SCHOOL DISTRICT
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CENTRAL PLANT REPLACEMENT

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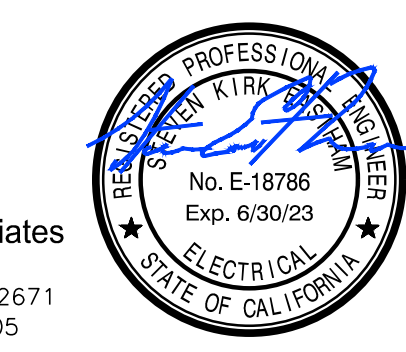
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PANEL SCHEDULES

Job No: **5524**
 Sheet No: **E4.02**

Revision: DSA BACKCHECK Issue Date: 06-14-2023



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 Visalia, California 93292-6705

120/208V, 3 PH, 4 W										10K BREAKER A.I.C.		
100 A. BUSSING MAIN LUG ONLY										5 3/4" MAX. ENCL. DEPTH		
30 CIRCUIT										FLUSH MOUNTING PER #6/E5.00		
Ckt	Sg	LOAD: V.A.	DESCRIPTION		DESCRIPTION		LOAD: V.A.		Sg	Ckt		
			A	B	C	A	B	A			B	
1	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	2		
3	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	4		
5	20/1	720	600	AIR PURIFIER	LIGHTS			406	20/1	6		
7	20/1	600		SPARE	SPARE				20/1	8		
9	20/1	600		AIR PURIFIER	SPARE				20/1	10		
11	20/1	500		MECHANICAL CONTROLS	RECEPT - WP ON ROOF	1080			20/1	12		
13	15/1	1000		RECEPT -	RECEPT -			1000	15/1	14		
15	15/1	1000		RECEPT -	RECEPT -			1000	15/1	16		
17	15/1	1000		RECEPT -	RECEPT -			1000	15/1	18		
19	15/1	1000		RECEPT -	RECEPT -			1500	20/3	20		
21	15/1	1000		RECEPT -	EXISTING - EQUIP.			1500		22		
23	15/1	1000		RECEPT -	SPARE			1500		24		
25	15/1	1000		RECEPT -	SPACE					26		
27	15/2	800		EXISTING - EQUIP.	SPACE					28		
29		800		EXISTING - EQUIP.	SPACE					30		
LOAD SUMMARY				A	B	C	TOTAL CALCULATED					
CONNECTED LOAD (VA):				7336	7136	7136	LOAD FOR PANEL:					
25% LCL/LML (VA):				129	129	129	21995 VA					
TOTAL LOAD (VA):				7465	7265	7265	18118 VA					
TOTAL LOAD (AMPS):				62.2	60.5	60.5						

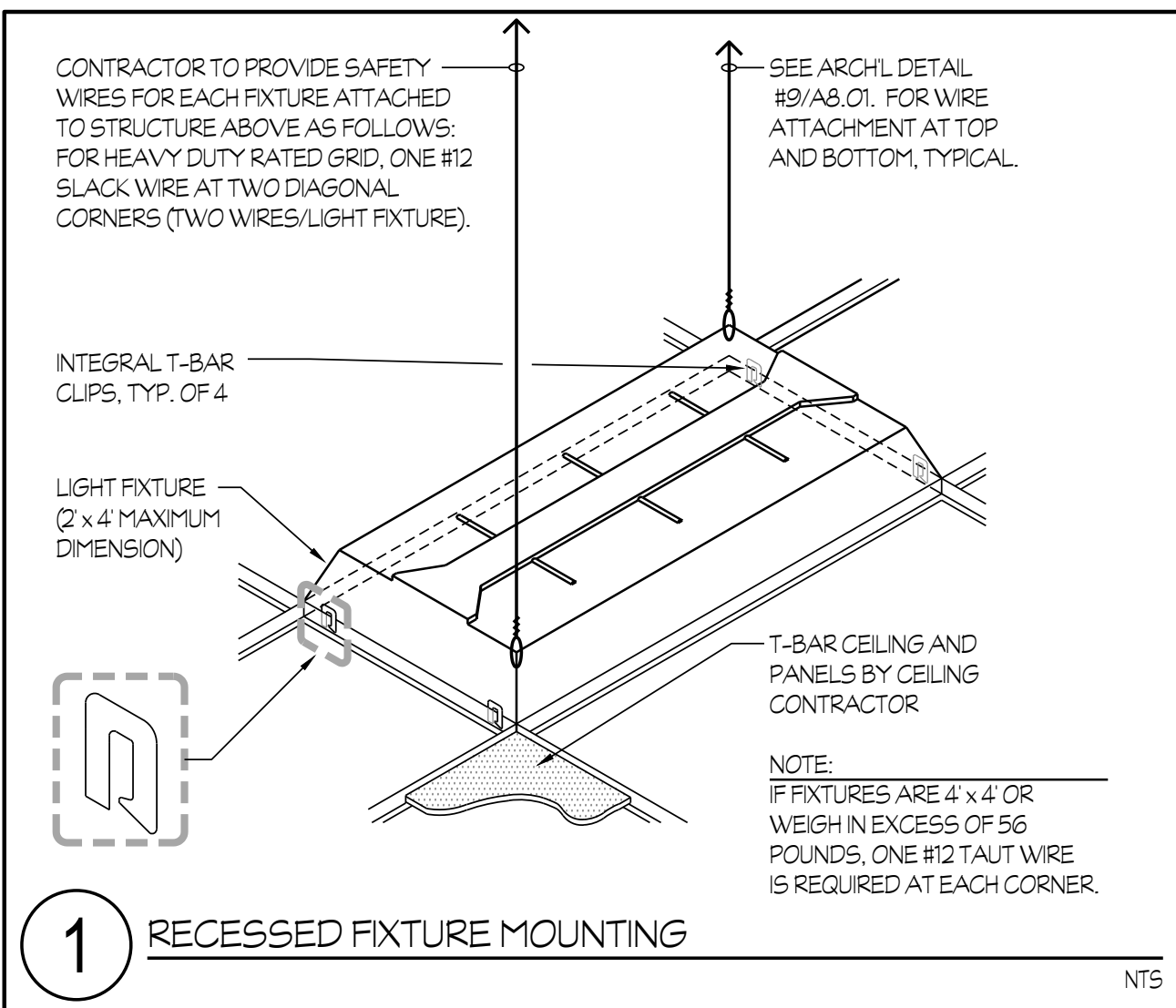
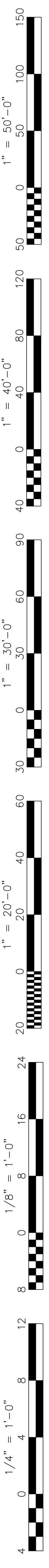
120/208V, 3 PH, 4 W										10K BREAKER A.I.C.		
100 A. BUSSING MAIN LUG ONLY										5 3/4" MAX. ENCL. DEPTH		
30 CIRCUIT										FLUSH MOUNTING PER #6/E5.00		
Ckt	Sg	LOAD: V.A.	DESCRIPTION		DESCRIPTION		LOAD: V.A.		Sg	Ckt		
			A	B	C	A	B	A			B	
1	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	2		
3	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	4		
5	20/1	720	600	AIR PURIFIER	LIGHTS			406	20/1	6		
7	20/1	600		SPARE	SPARE				20/1	8		
9	20/1	600		AIR PURIFIER	SPARE				20/1	10		
11	20/1	500		MECHANICAL CONTROLS	RECEPT - WP ON ROOF	1080			20/1	12		
13	15/1	1000		RECEPT -	RECEPT -			1000	15/1	14		
15	15/1	1000		RECEPT -	RECEPT -			1000	15/1	16		
17	15/1	1000		RECEPT -	RECEPT -			1000	15/1	18		
19	15/1	1000		RECEPT -	RECEPT -			1500	20/3	20		
21	15/1	1000		RECEPT -	EXISTING - EQUIP.			1500		22		
23	15/1	1000		RECEPT -	SPARE			1500		24		
25	20/1			SPARE	SPACE					26		
27	15/2	800		EXISTING - EQUIP.	SPACE					28		
29		800		EXISTING - EQUIP.	SPACE					30		
LOAD SUMMARY				A	B	C	TOTAL CALCULATED					
CONNECTED LOAD (VA):				6336	5336	6086	LOAD FOR PANEL:					
25% LCL/LML (VA):				129	129	102	21995 VA					
TOTAL LOAD (VA):				6465	5465	6188	18118 VA					
TOTAL LOAD (AMPS):				53.9	45.5	51.6						

120/208V, 3 PH, 4 W										10K BREAKER A.I.C.		
100 A. BUSSING MAIN LUG ONLY										5 3/4" MAX. ENCL. DEPTH		
30 CIRCUIT										FLUSH MOUNTING PER #6/E5.00		
Ckt	Sg	LOAD: V.A.	DESCRIPTION		DESCRIPTION		LOAD: V.A.		Sg	Ckt		
			A	B	C	A	B	A			B	
1	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	2		
3	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	4		
5	20/1	600		AIR PURIFIER	LIGHTS			406	20/1	6		
7	20/1	600		SPARE	SPARE				20/1	8		
9	20/1	600		AIR PURIFIER	SPARE				20/1	10		
11	20/1	500		MECHANICAL CONTROLS	RECEPT - WP ON ROOF	1080			20/1	12		
13	15/1	1000		RECEPT -	RECEPT -			1000	15/1	14		
15	15/1	1000		RECEPT -	RECEPT -			1000	15/1	16		
17	15/1	1000		RECEPT -	RECEPT -			1000	15/1	18		
19	15/1	1000		RECEPT -	RECEPT -			1500	20/3	20		
21	15/1	1000		RECEPT -	EXISTING - EQUIP.			1500		22		
23	15/1	1000		RECEPT -	SPARE			1500		24		
25	15/1	1000		RECEPT -	SPACE					26		
27	15/2	800		EXISTING - EQUIP.	SPACE					28		
29		800		EXISTING - EQUIP.	SPACE					30		
LOAD SUMMARY				A	B	C	TOTAL CALCULATED					
CONNECTED LOAD (VA):				7336	7136	7136	LOAD FOR PANEL:					
25% LCL/LML (VA):				129	129	129	21995 VA					
TOTAL LOAD (VA):				7465	7265	7265	21995 VA					
TOTAL LOAD (AMPS):				62.2	60.5	60.5						

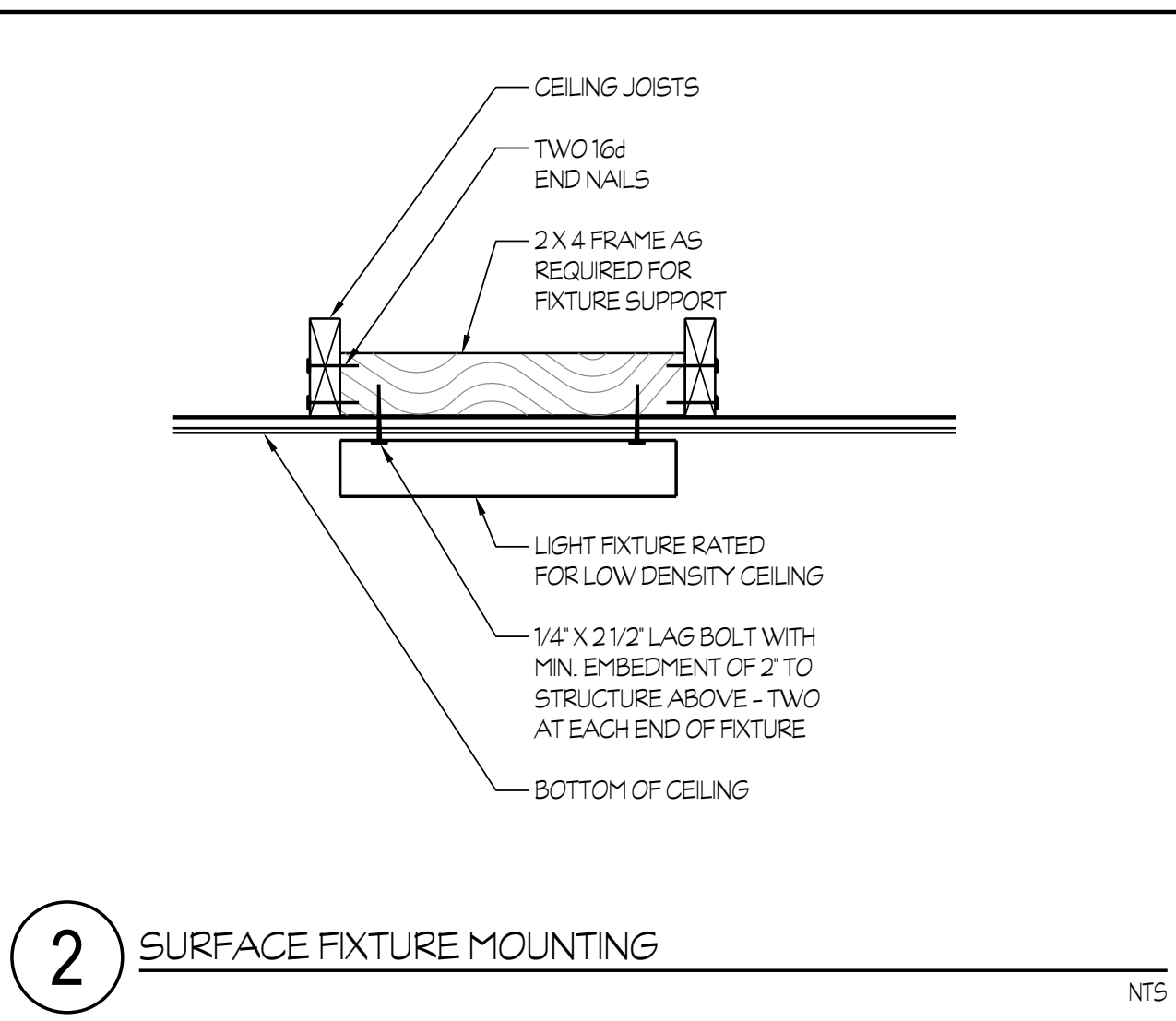
120/208V, 3 PH, 4 W										10K BREAKER A.I.C.		
100 A. BUSSING 225 A. MAIN BRK.										5 3/4" MAX. ENCL. DEPTH		
42 CIRCUIT										FLUSH MOUNTING		
Ckt	Sg	LOAD: V.A.	DESCRIPTION		DESCRIPTION		LOAD: V.A.		Sg	Ckt		
			A	B	C	A	B	A			B	
1	15/1	500		(E) LOAD	(E) LOAD			500	15/1	2		
3	15/1	500		(E) LOAD	(E) LOAD			500	15/1	4		
5	15/1	500		(E) LOAD	(E) LOAD			500	15/1	6		
7	15/1	500		(E) LOAD	(E) LOAD			500	15/1	8		
9	15/1	500		(E) LOAD	(E) LOAD			500	15/1	10		
11	15/1	500		(E) LOAD	(E) LOAD			500	15/1	12		
13	15/1	500		(E) LOAD	(E) LOAD			500	15/1	14		
15	15/1	500		(E) LOAD	(E) LOAD			500	15/1	16		
17	15/1	500		(E) LOAD	(E) LOAD			500	15/1	18		
19	15/1	500		(E) LOAD	(E) LOAD			500	15/1	20		
21	15/1	500		(E) LOAD	(E) LOAD			500	15/1	22		
23	15/1	500		(E) LOAD	(E) LOAD			500	15/1	24		
25	15/1	500		(E) LOAD	(E) LOAD			500	15/1	26		
27	15/1	500		(E) LOAD	(E) LOAD			500	15/1	28		
29	15/1	500		(E) LOAD	(E) LOAD			500	15/1	30		
31	15/1	500		(E) LOAD	(E) LOAD			500	15/1	32		
33	20/1	1000		(E) LOAD	(E) LOAD			1000	20/1	34		
35	25/2	1664		ODU A-1	FIRE ALARM "P.E.P."	500			20/1	36		
37		1664		SPACE	SPACE					38		
39				SPACE	SPACE					40		
41				SPACE	SPACE					42		
LOAD SUMMARY				A	B	C	TOTAL CALCULATED					
CONNECTED LOAD (VA):				7664	7000	7164	LOAD FOR PANEL:					
25% LCL/LML (VA):				0	0	0	21828 VA					
TOTAL LOAD (VA):				7664	7000	7164						
TOTAL LOAD (AMPS):				63.9	58.3	59.7						

120/208V, 3 PH, 4 W										10K BREAKER A.I.C.		
100 A. BUSSING MAIN LUG ONLY										5 3/4" MAX. ENCL. DEPTH		
30 CIRCUIT										FLUSH MOUNTING PER #6/E5.00		
Ckt	Sg	LOAD: V.A.	DESCRIPTION		DESCRIPTION		LOAD: V.A.		Sg	Ckt		
			A	B	C	A	B	A			B	
1	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	2		
3	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	4		
5	20/1	600		AIR PURIFIER	LIGHTS			406	20/1	6		
7	20/1	600		SPARE	SPARE				20/1	8		
9	20/1	600		AIR PURIFIER	SPARE				20/1	10		
11	20/1	500		MECHANICAL CONTROLS	RECEPT - WP ON ROOF	1080			20/1	12		
13	15/1	1000		RECEPT -	RECEPT -			1000	15/1	14		
15	15/1	1000		RECEPT -	RECEPT -			1000	15/1	16		
17	15/1	1000		RECEPT -	RECEPT -			1000	15/1	18		
19	15/1	1000		RECEPT -	RECEPT -			1500	20/3	20		
21	15/1	1000		RECEPT -	EXISTING - EQUIP.			1500		22		
23	15/1	1000		RECEPT -	SPARE			1500		24		
25	15/1	1000		RECEPT -	SPACE					26		
27	15/2	800		EXISTING - EQUIP.	SPACE					28		
29		800		EXISTING - EQUIP.	SPACE					30		
LOAD SUMMARY				A	B	C	TOTAL CALCULATED					
CONNECTED LOAD (VA):				5736	5336	6086	LOAD FOR PANEL:					
25% LCL/LML (VA):				129	129	102	17518 VA					
TOTAL LOAD (VA):				5865	5465	6188						
TOTAL LOAD (AMPS):				48.9	45.5	51.6						

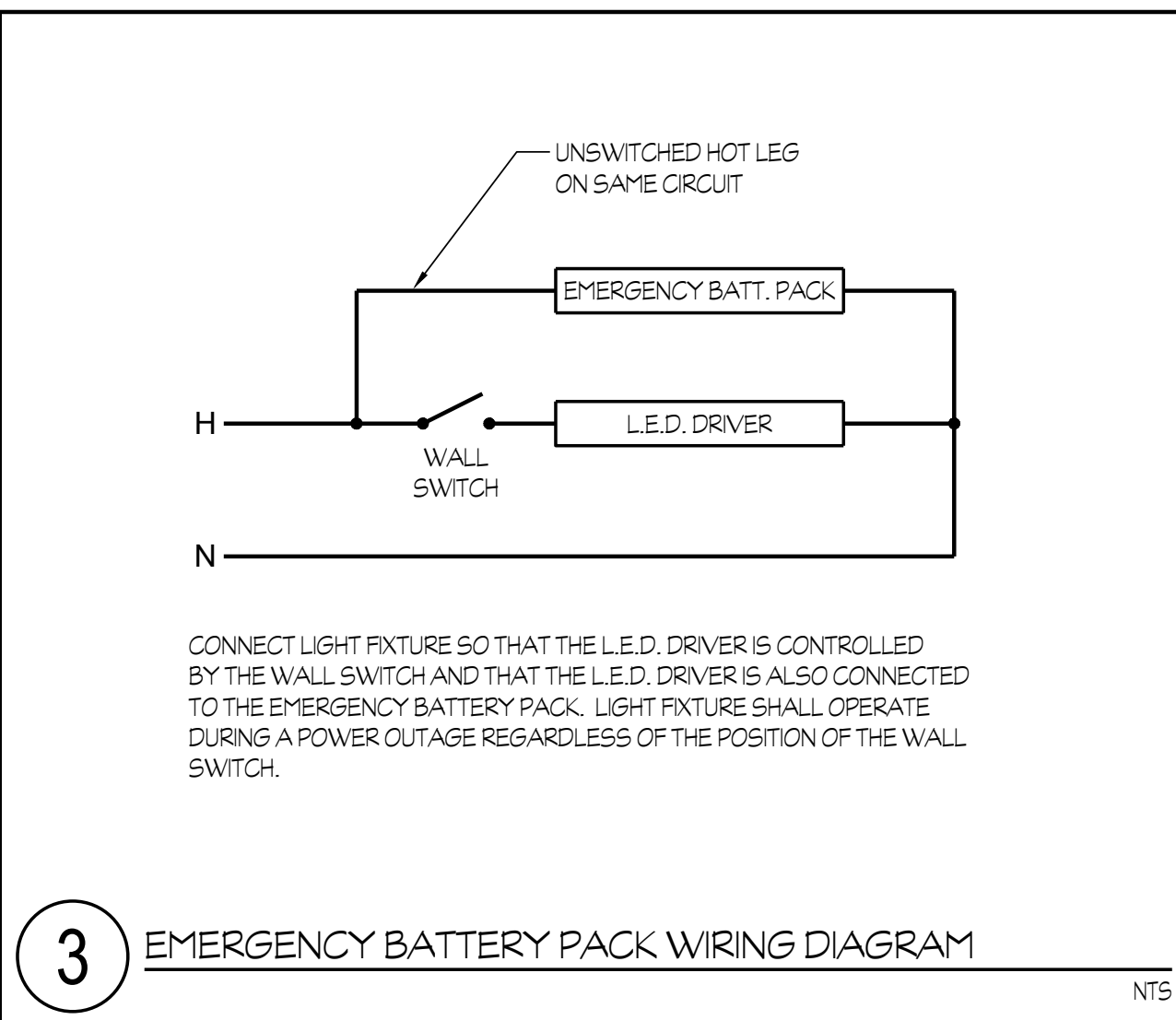
120/208V, 3 PH, 4 W										10K BREAKER A.I.C.		
100 A. BUSSING MAIN LUG ONLY										5 3/4" MAX. ENCL. DEPTH		
30 CIRCUIT										FLUSH MOUNTING PER #6/E5.00		
Ckt	Sg	LOAD: V.A.	DESCRIPTION		DESCRIPTION		LOAD: V.A.		Sg	Ckt		
			A	B	C	A	B	A			B	
1	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	2		
3	20/1	720		RECEPT - TEACHER WALL	LIGHTS			516	20/1	4		
5	20/1	600		AIR PURIFIER	LIGHTS			406	20/1	6		
7	20/1	600		SPARE	SPARE				20/1	8		
9	20/1	600		AIR PURIFIER	SPARE				20/1	10		
11	20/1	500		MECHANICAL CONTROLS	RECEPT - WP ON ROOF	1080			20/1	12		
13	15/1	1000		RECEPT -	RECEPT -			1000	15/1	14		
15	15/1	1000		RECEPT -	RECEPT -			1000	15/1	16		
17	15/1	1000		RECEPT -	RECEPT -			1000	15/1	18		
19	15/1	1000		RECEPT -	RECEPT -			1500	20/3	20		
21	15/1	1000		RECEPT -	EXISTING - EQUIP.			1500		22		
23	15/1	1000		RECEPT -	SPARE			1500		24		
25	15/1	1000		RECEPT -	SPACE					26		
27	15/2	800		EXISTING - EQUIP.	SPACE					28		
29		800		EXISTING - EQUIP.	SPACE					30		
LOAD SUMMARY				A	B	C	TOTAL CALCULATED					
CONNECTED LOAD (VA):				7336	7136	7136	LOAD FOR PANEL:					
25% LCL/LML (VA):				129	129	129	21995 VA					
TOTAL LOAD (VA):				7465	7265	7265	21995 VA					
TOTAL LOAD (AMPS):				62.2	60.5	60.5						



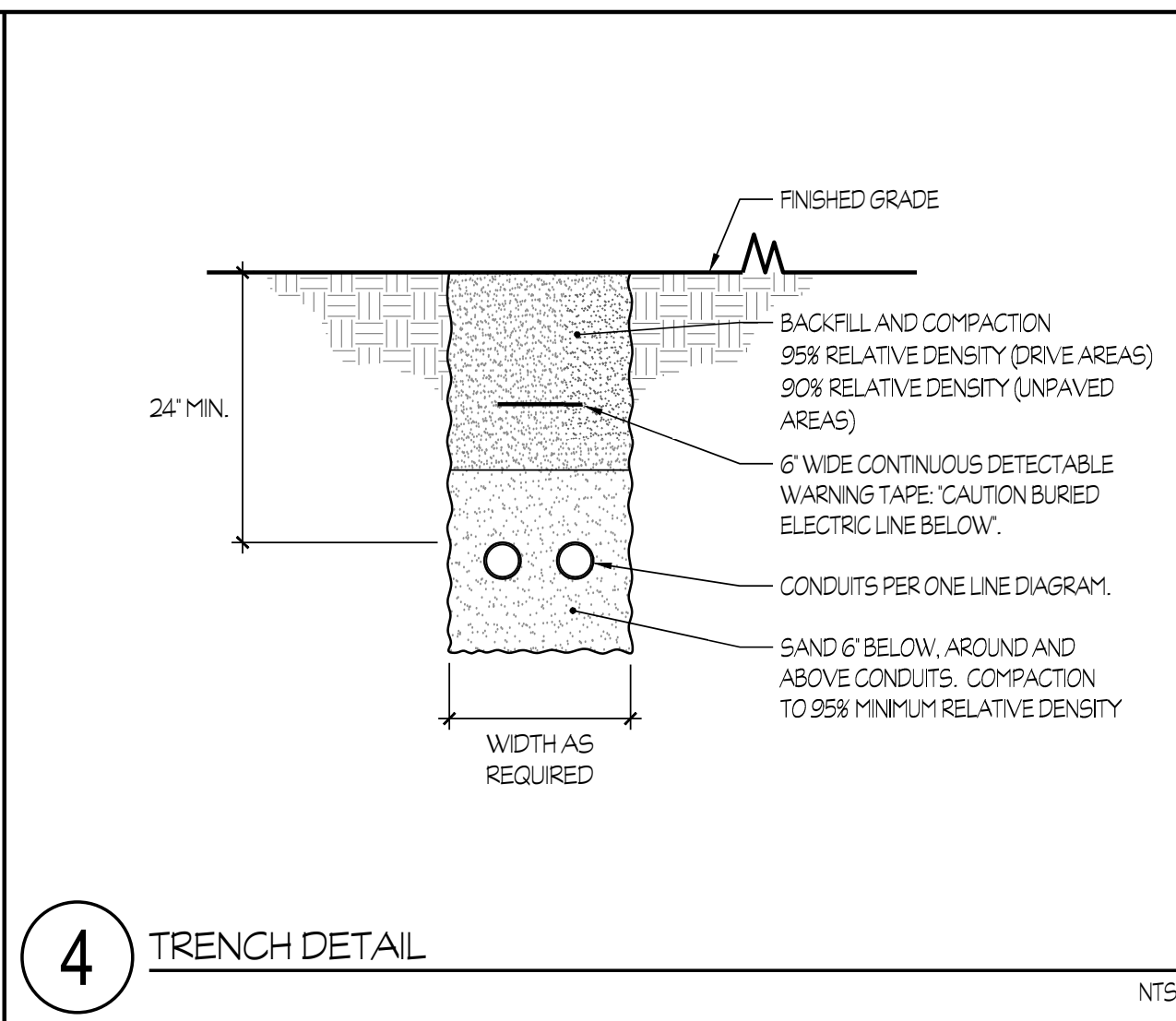
1 RECESSED FIXTURE MOUNTING NTS



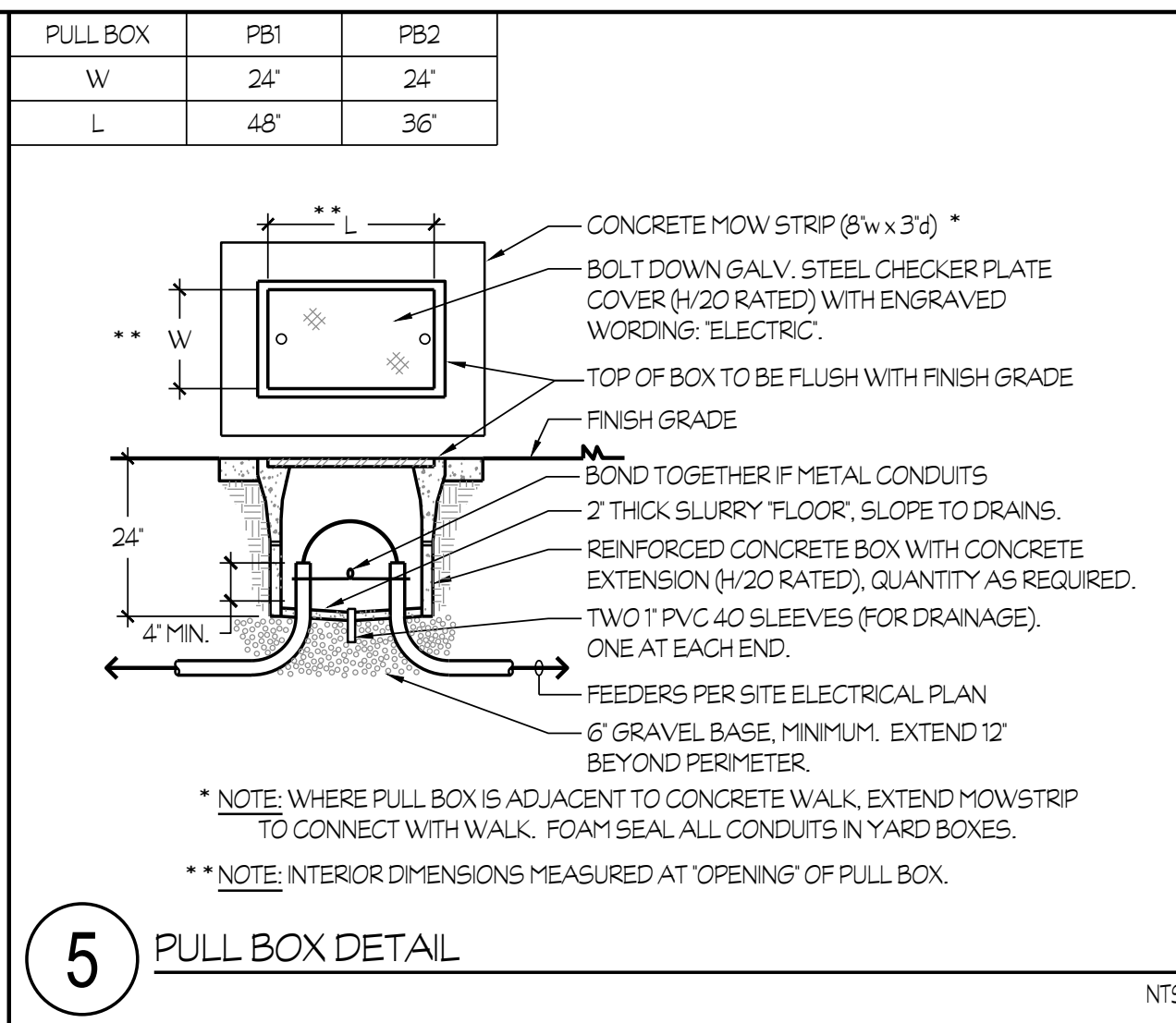
2 SURFACE FIXTURE MOUNTING NTS



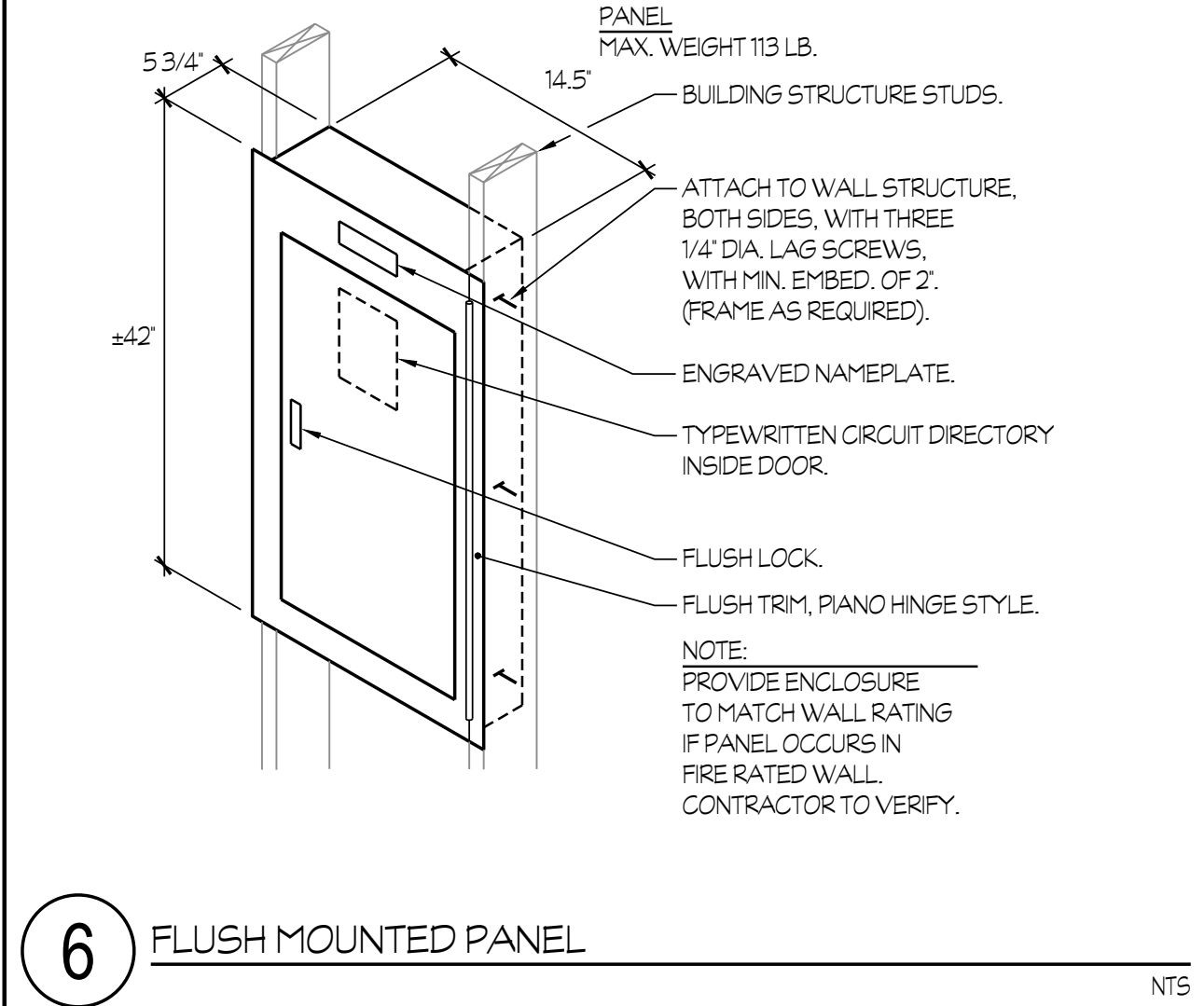
3 EMERGENCY BATTERY PACK WIRING DIAGRAM NTS



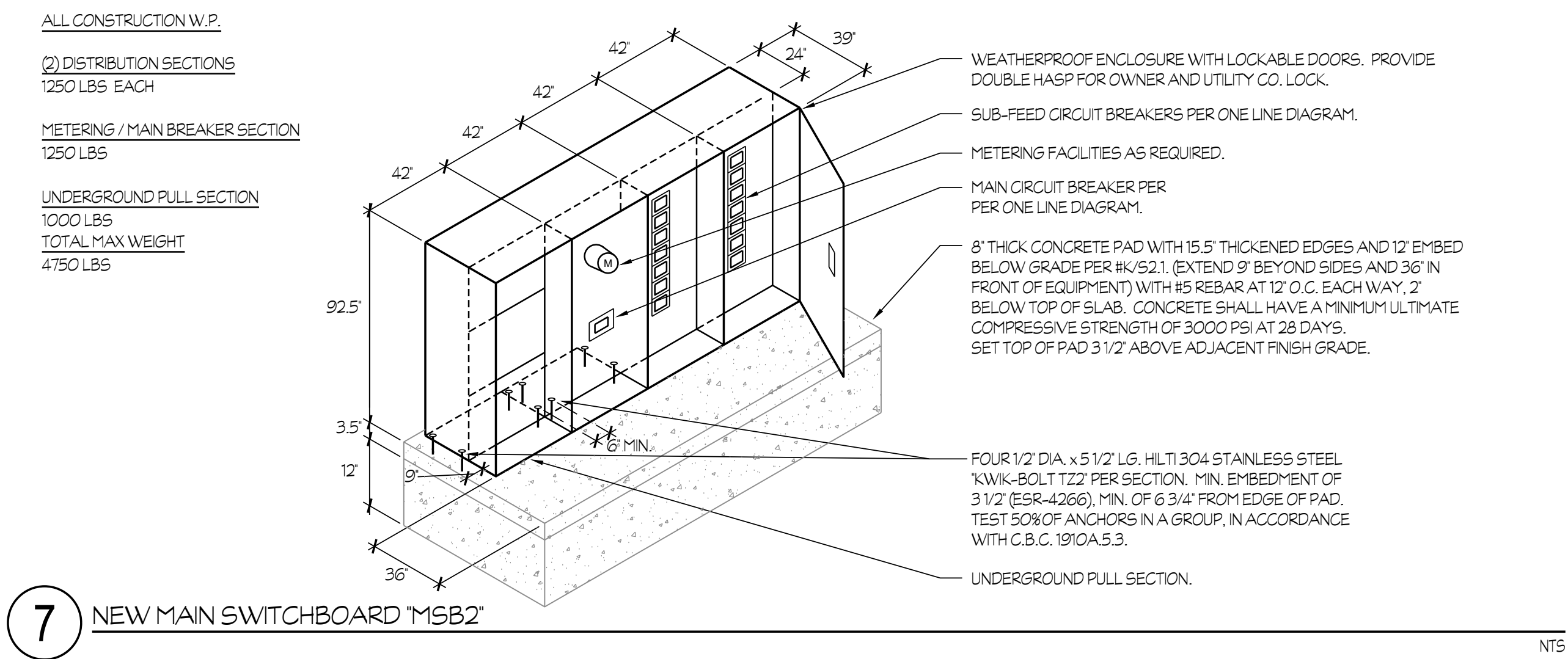
4 TRENCH DETAIL NTS



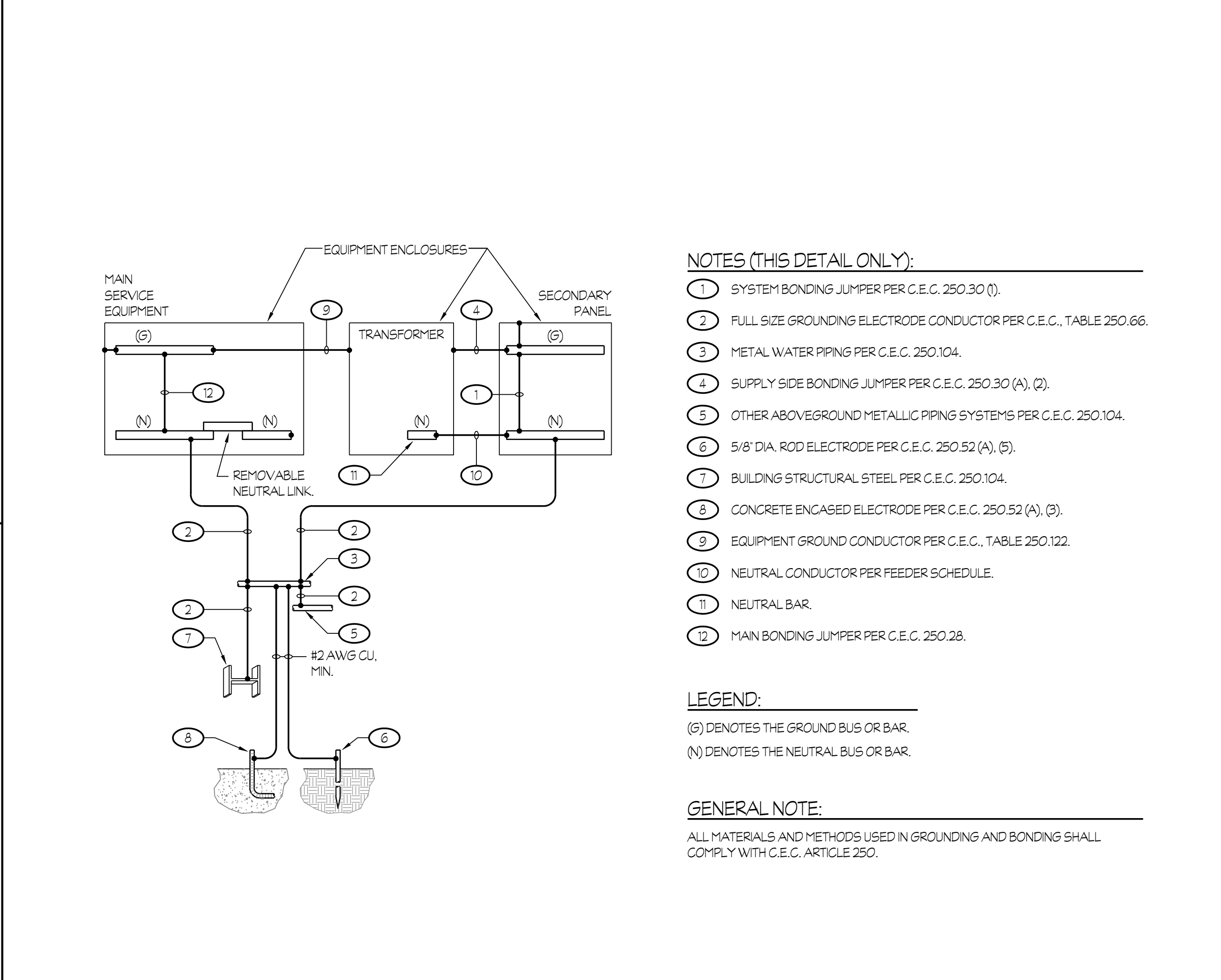
5 PULL BOX DETAIL NTS



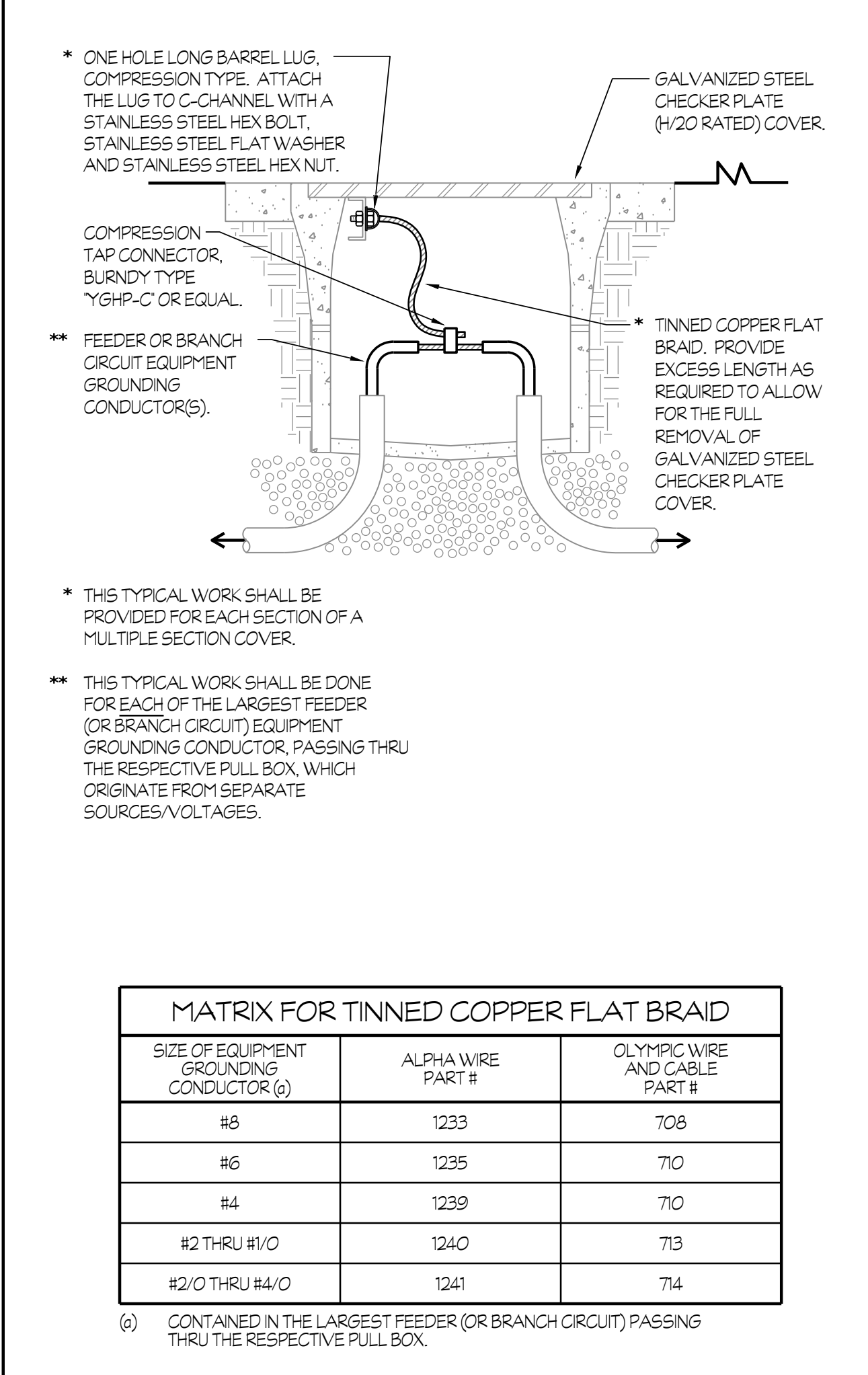
6 FLUSH MOUNTED PANEL NTS



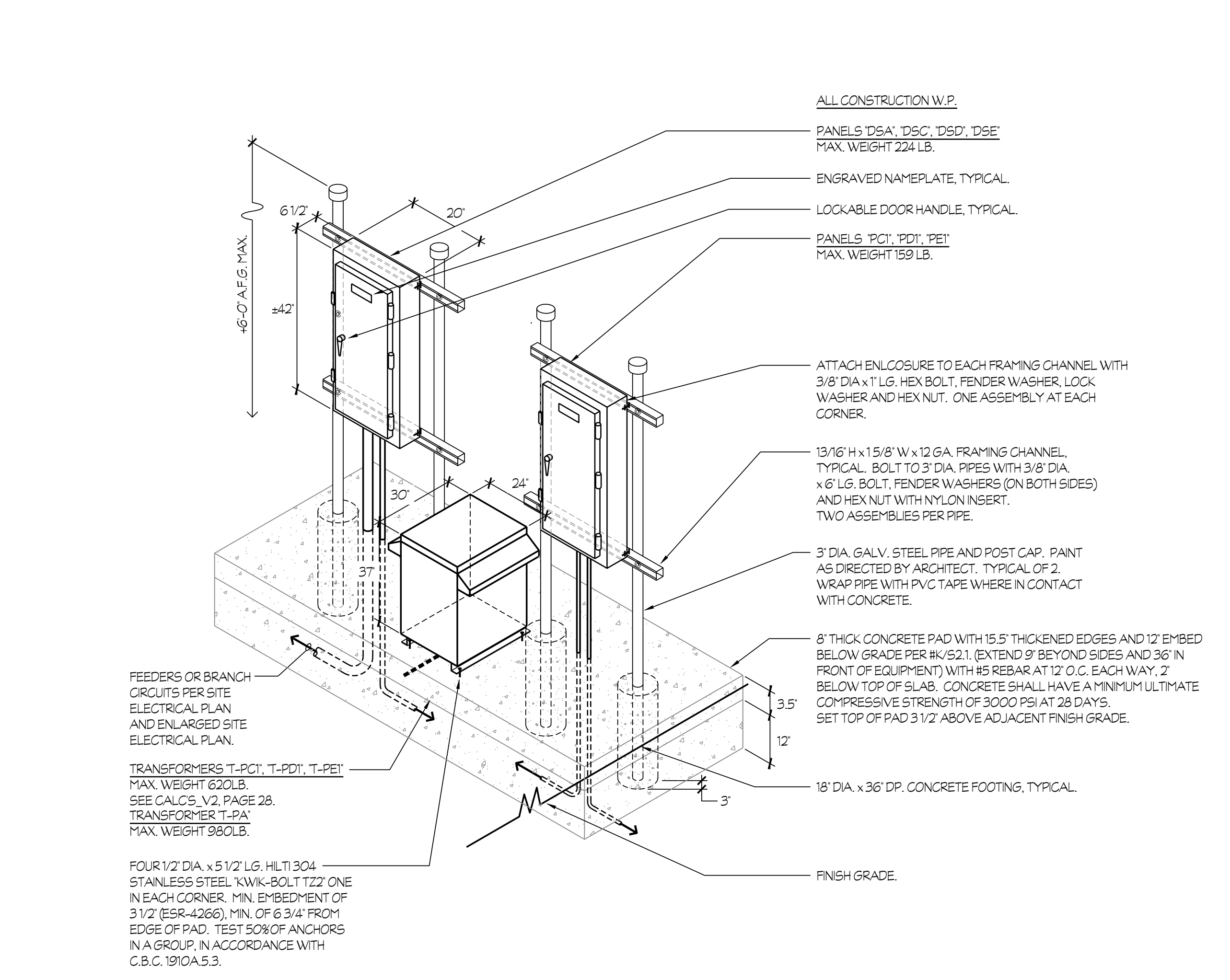
7 NEW MAIN SWITCHBOARD 'MSB2' NTS



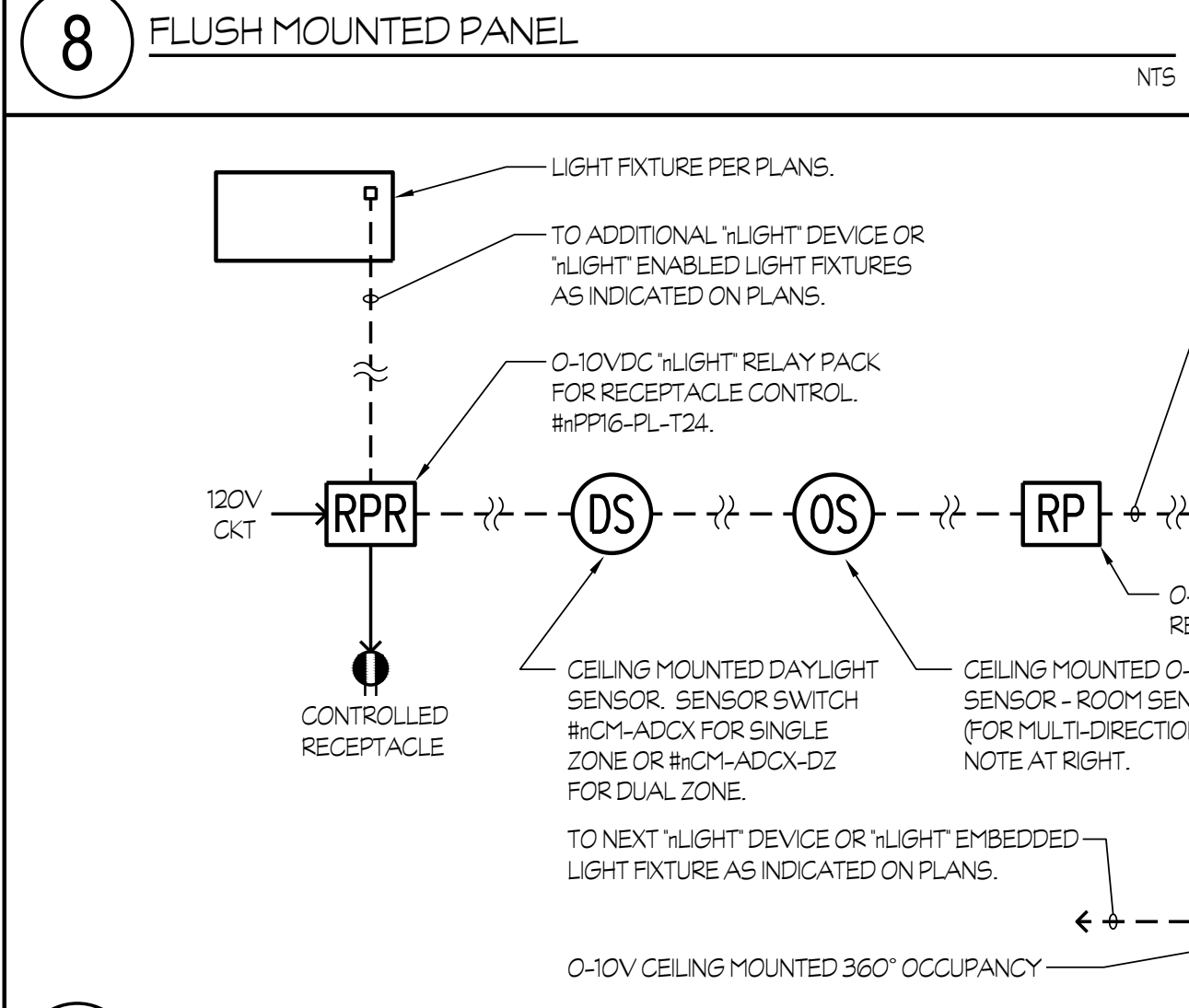
12 MAIN SERVICE EQUIPMENT, XFMR AND SECONDARY PANEL - GROUNDING AND BONDING NTS



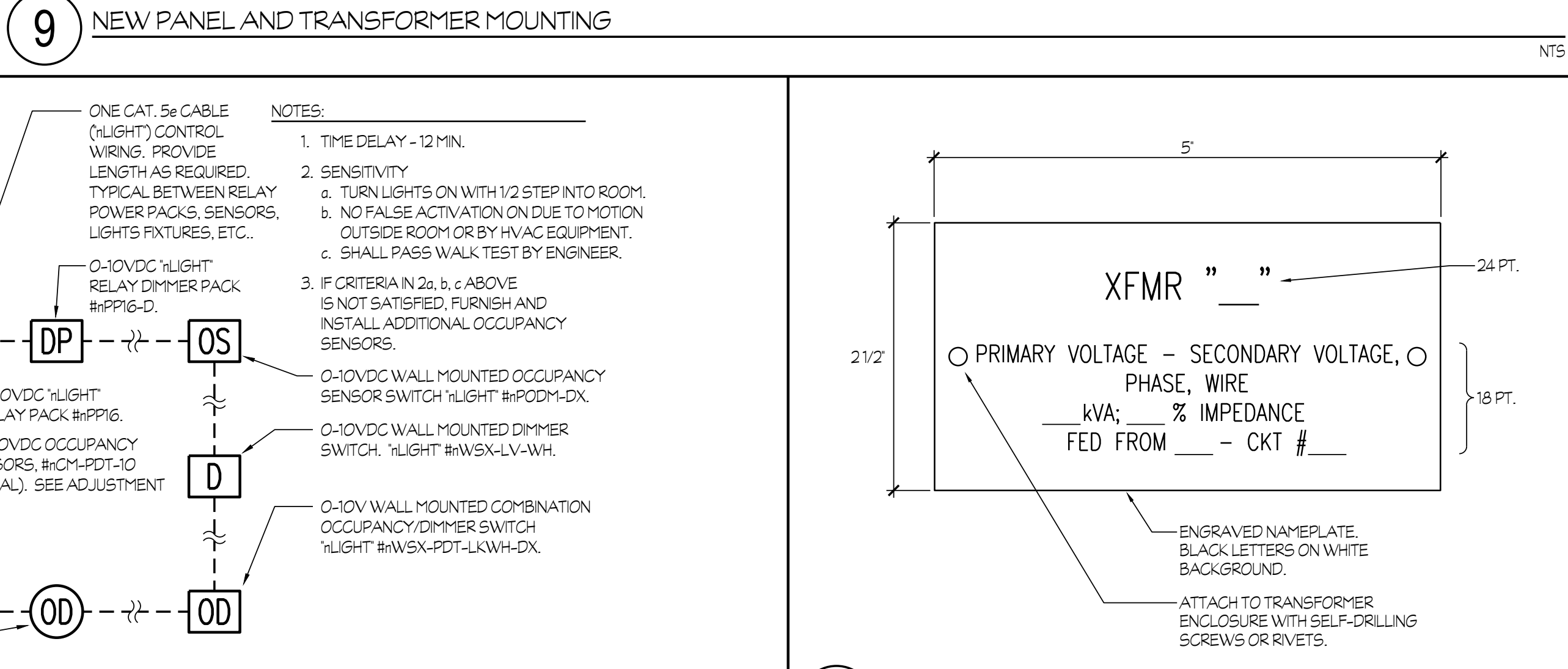
8 FLUSH MOUNTED PANEL NTS



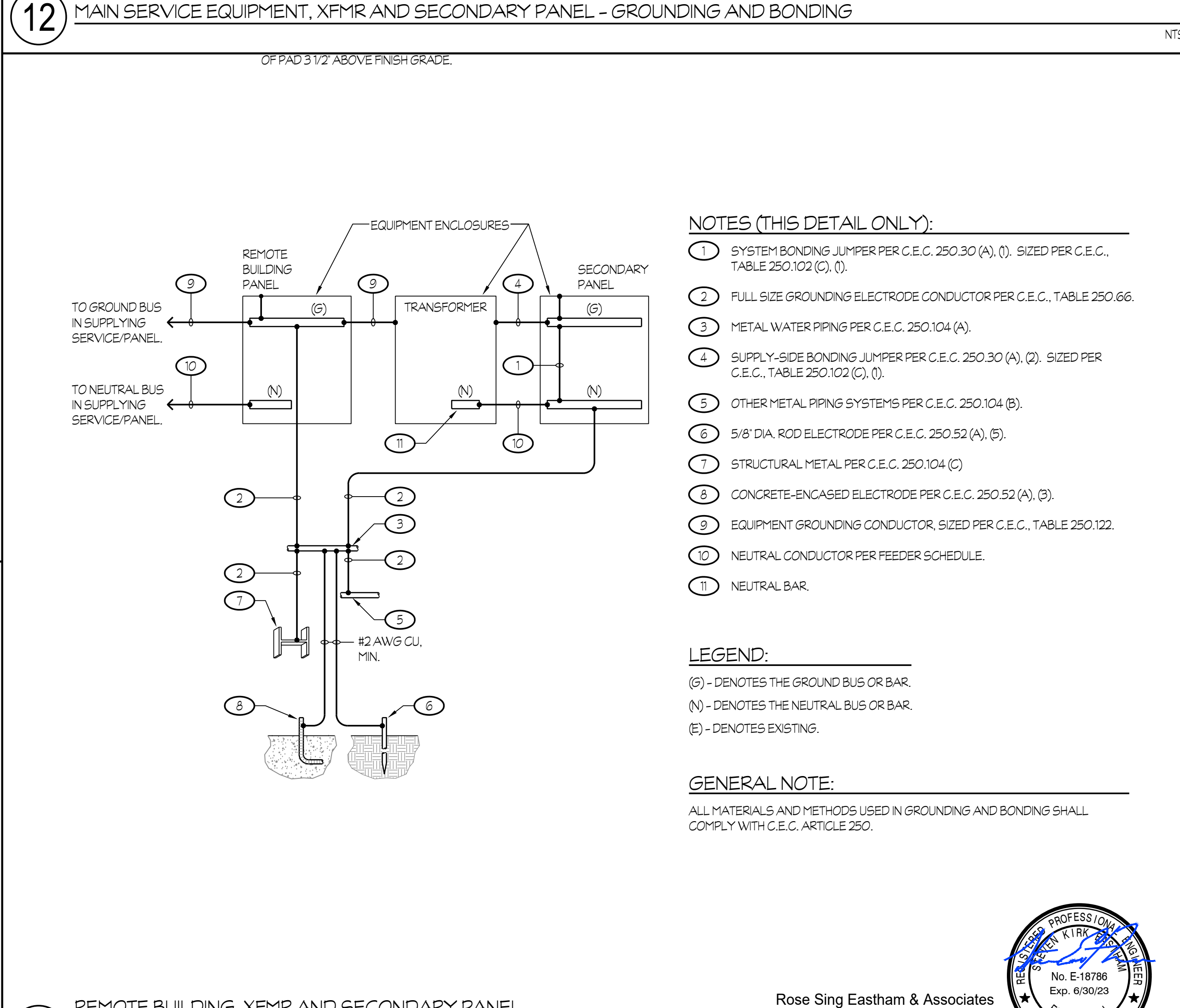
9 NEW PANEL AND TRANSFORMER MOUNTING NTS



10 SENSOR SWITCH, 'LIGHT' DEVICES WIRING DIAGRAM NTS



11 TRANSFORMER IDENTIFICATION NAMEPLATE NTS



13 REMOTE BUILDING, XFMR AND SECONDARY PANEL - GROUNDING AND BONDING NTS

PULL BOX	P81	P82
W	24'	24'
L	48'	36'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122489 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/27/2023

Owner:
BCSD
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93309

Project Name:
CENTRAL PLANT REPLACEMENT

Project Address:
MUNSEY ELEMENTARY SCHOOL
3801 BRAVE AVENUE
BAKERSFIELD, CA 93309

integrated designs
by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN
6011 N. FRESNO STREET, SUITE 130
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Sheet Title:
DETAILS

Job No.: **5524**
Sheet No.: **E5.00**

Professional Engineer Seal
ROSE SING EASTHAM
No. E-18786
Exp. 01/01/23
STATE OF CALIFORNIA

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunwoorth - (559) 733-2671
Visalia, California 93292-6705

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122489 INC.
 REVIEWED FOR: SS FLS ACS
 DATE: 07/27/2023

BCSD
 BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93309

Project Name:
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 3801 BRAVE AVENUE
 BAKERSFIELD, CA 93309

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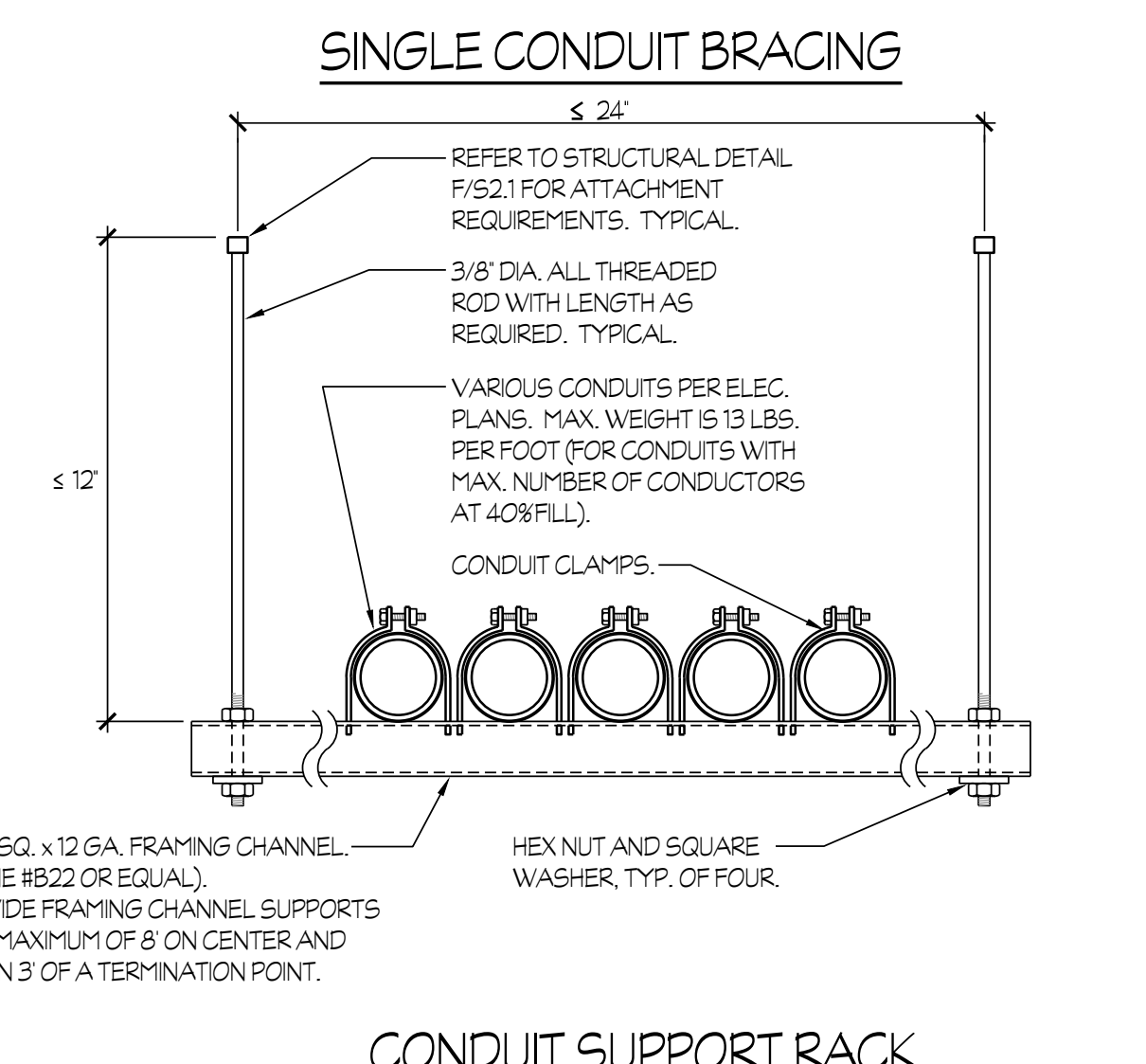
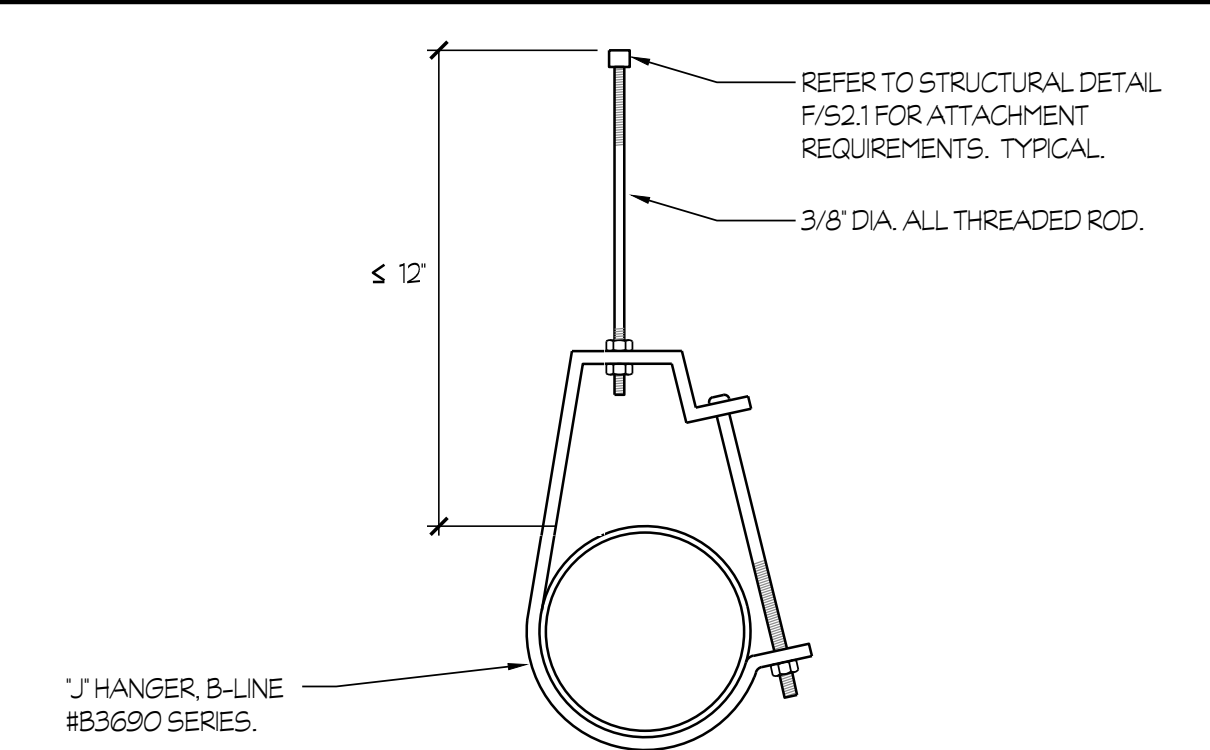
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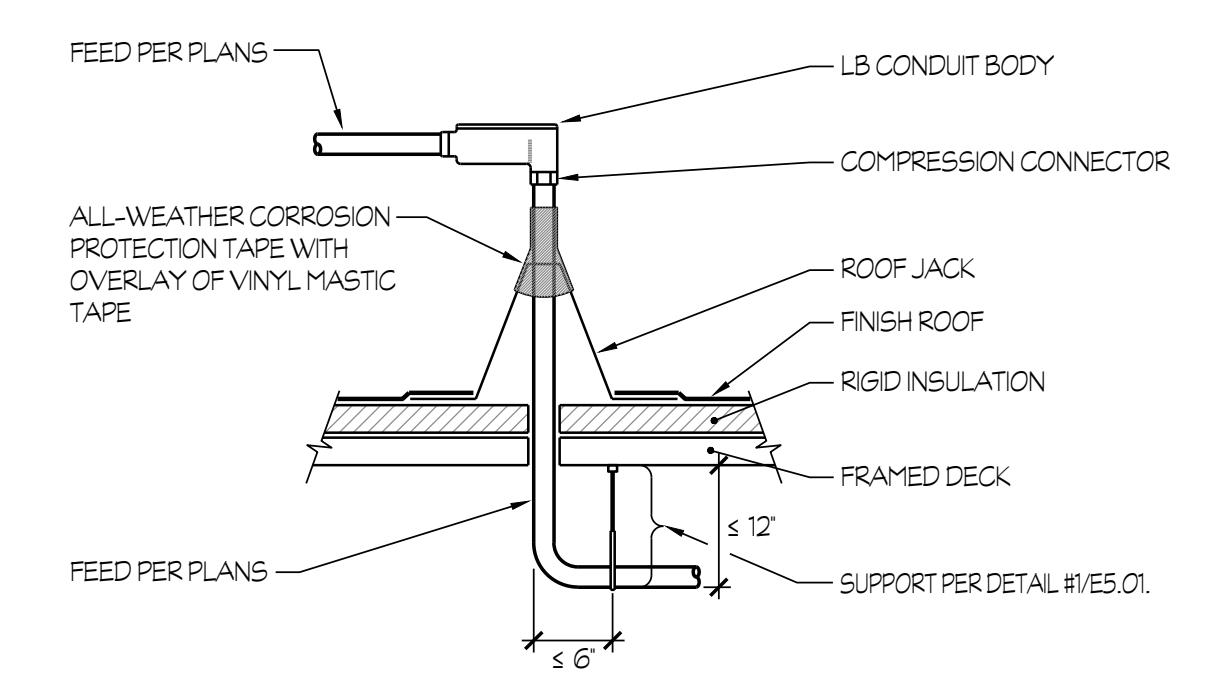
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Sheet No.:
E5.01

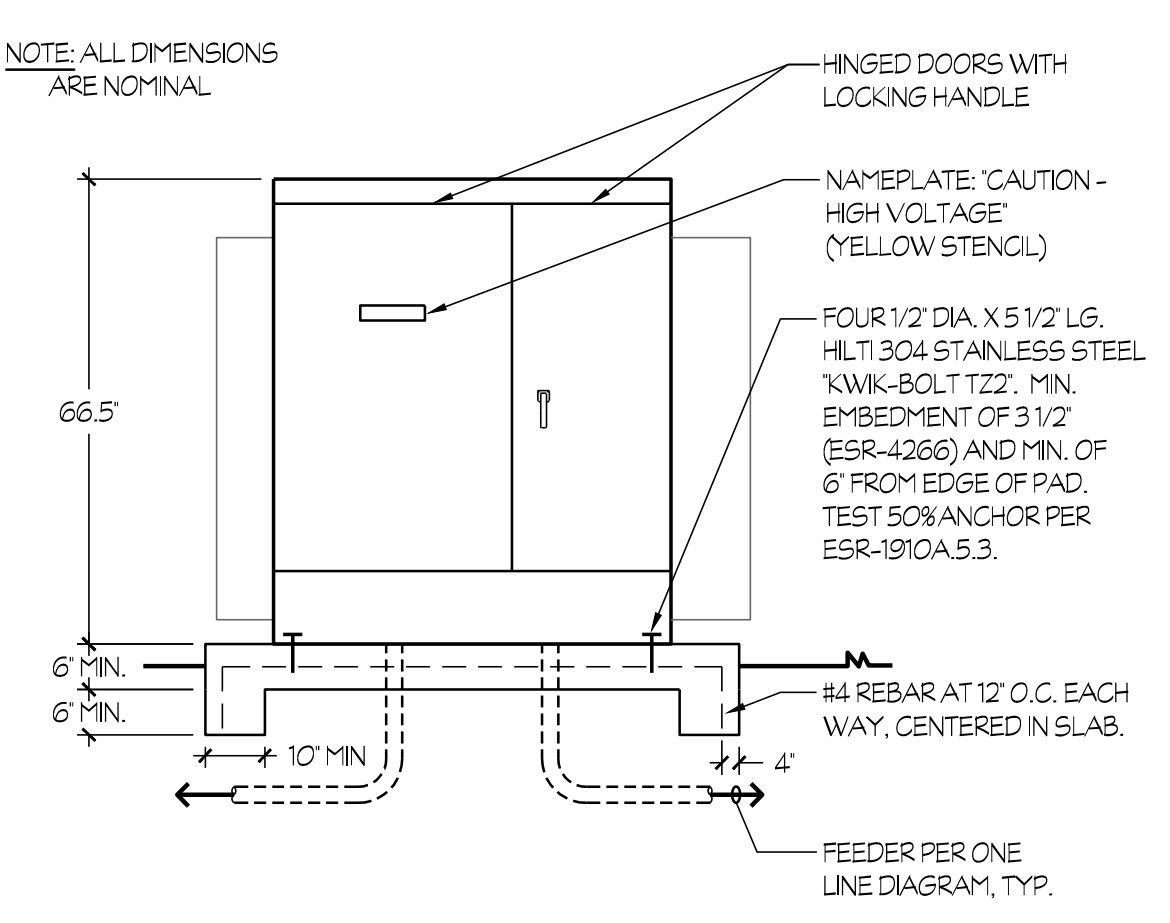
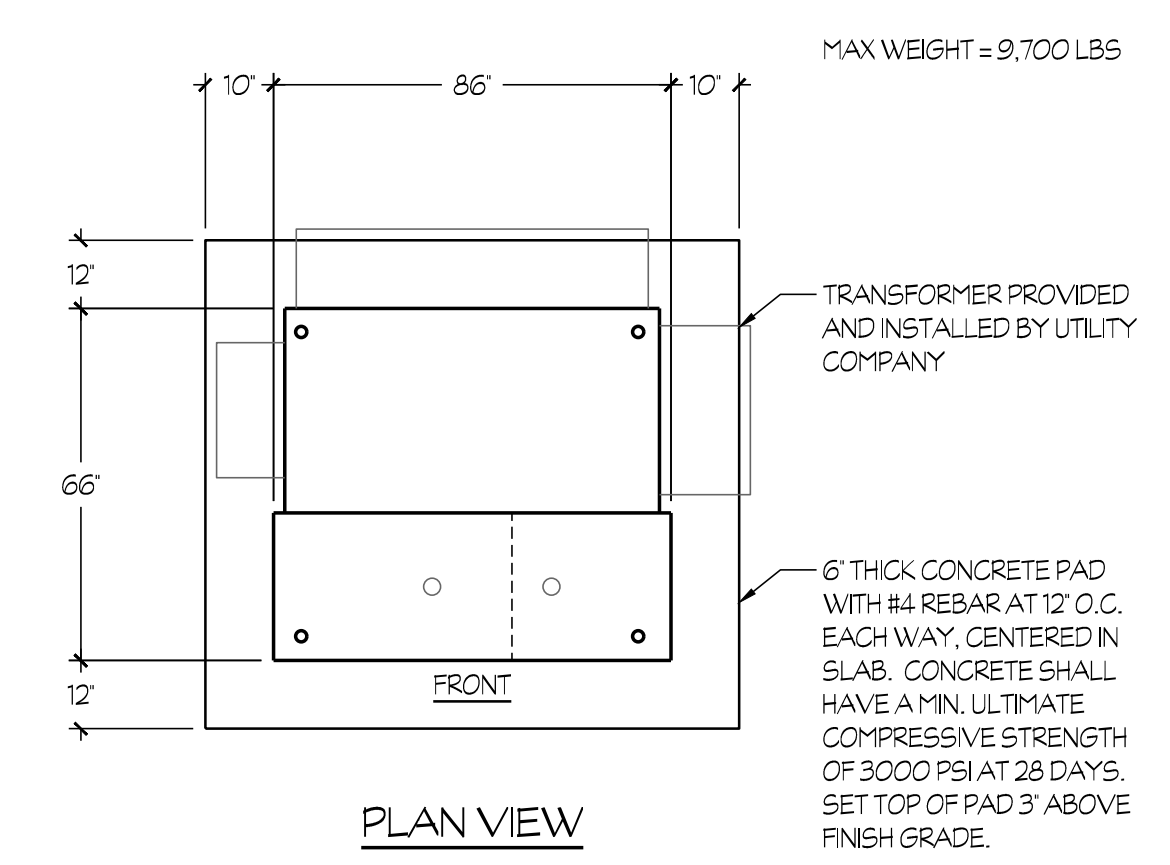
Release: DSA BACKCHECK Issue Date: 06-14-2023



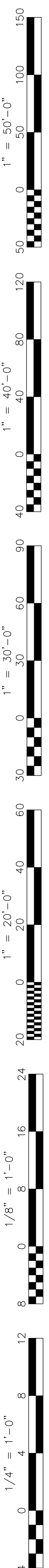
1 CONDUIT BRACING DETAILS NTS



8 ROOF JACK AT ROOF NTS



2 UTILITY TRANSFORMER PAD DETAIL NTS



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