
ADDENDUM NO. 2

DATE: 02/24/23

PROJECT:

McKinley/ Fowler Elementary School- Increment 2
Fresno, CA
CUSD Bid No.: 2923

OWNER:

Clovis Unified School District
1450 E. Herndon Ave.
Clovis, CA 93611

ARCHITECT:

DARDEN ARCHITECTS, INC.
Attention: Andrew Corral/ Mike Fennacy
6790 N. West Avenue
Fresno, California 93711
T. (559) 448-8051
F. (559) 446-1765

DARDEN PROJECT NO. 2116
DSA File Nos. 10-48
DSA APPL. NO. 02-120543

It will be the responsibility of the General Contractor to submit the information contained in this addendum to all its subcontractors and suppliers. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

The following additions, deletions, and revisions to the SHEETS and Project Manual are hereby made and do become a part of these Contract Documents.

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SPECIFICATIONS:

CHANGES TO SPECIFICATIONSAD2-SP01 THRU AD2-SP10

SHEETS:

CHANGES TO SHEETS:

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ATTACHMENTS:

DOCUMENTS OR SPECIFICATIONS:

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SHEETS:

ARCHITECTURALAD 2-AX01 thru AD2 -AX24.
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PROJECT MANUAL:

BIDDING AND CONTRACT REQUIREMENTS:

CHANGES TO PRIOR ADDENDA:

AD2-CPA01 Refer to Addendum No.1:

1. Refer to the CUSD Bid Number listed on the cover sheet. Strike out 2922, and replace with 2923.

SPECIFICATIONS:

CHANGES TO SPECIFICATIONS:

AD2-SP01 Refer to Specification Section 01 45 00 – 014529 - TESTING LABORATORY SERVICES:

1. Refer to 014529- Testing Laboratory Services, Section 1.1.A.b.2).
 - a. Strike out 75 miles and insert 100 miles.

AD2-SP02 Refer to Specification Section 03 00 00 – CAST-IN-PLACE CONCRETE:

1. Refer to Section Products 2.1, admixtures 2, b, c, & e:
L. Omit Fiber reinforcing, integral colored concrete pigment, and integral concrete waterproofing.

AD2-SP03 Refer to Specification Section 08 41 13 – FOLDING DOOR SYSTEM:

1. Insert the attached section 08 41 13- FOLDING DOOR SYSTEM as indicated with AD-2 in the upper-right hand corner.

AD2-SP04 Refer to Specification Section 08 70 00.0- HARDWARE GROUPS:

1. Insert the Following Hardware Group.

HARDWARE GROUP NO. 11 – UNDER STAGE DOORS

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2 EA	CONTINUOUS HINGE	HG311	US-26D	MARKAR
2 EA	ROLLER LATCH	1559BL	626	BB
2 EA	FLUSH DOOR PULL	151.35.207	626	HAFELE

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- AD2-SP05 Refer to Specification Section 08 80 00 – GLASS:**
1. Refer to section 3.6 Schedules, G- Gray tinted Glass:
 - a. Types G-1 and G-1T shall be ¼” Grey Float, SN-54 to match the glass used in type G2-2 and G2-2T
 2. Refer to section 3.6 Schedules, G- Gray Tinted Glass:
 - a. PPG SolarGray SB70 (#2) is an acceptable substitution for types G-1, G-1T, G2-2 and G2-2T. Samples must be submitted for Architects review.
- AD2-SP06 Refer to Specification Section 11 16 16 – SAFES:**
1. Omit this Section, Contractor shall provide Safe indicated in Addendum 1.
- AD2-SP07 Refer to Specification Section 11 61 43 – PLATFORM CURTAINS:**
1. Remove and replace this section with the attached 11 61 43- STAGE CURTAINS as indicated with AD-2 in the upper-right hand corner.
- AD2-SP08 Refer to Specification Section 14 42 00 – WHEELCHAIR LIFTS:**
1. Refer to Section 2.1 Manufacturers:
 - a. SYMMETRY ELEVATING SOLUTIONS is an acceptable alternative manufacturer.
- AD2-SP09 Refer to Specification Section 01 11 13 – SUMMARY OF WORK:**
1. Add the attached BID PACKAGES document to the end of this section as indicated with an AD2 in the upper right-hand corner.
 2. Add the attached PRELIMINARY BID SCHEDULE document to the end of this section as identified with an AD2 in the upper right-hand corner.
- AD2-SP10 Refer to Specification Section 11 68 13 – PLAY EQUIPMENT:**
1. Insert the attached section 11 68 13- PLAY EQUIPMENT as indicated with AD-2 in the upper-right hand corner.

SHEETS:

CHANGES TO SHEETS:

CIVIL:

- AD2-C01 Refer to the Attached Revised Offsite Drawings.**
1. Remove and replace the sheets As indicated with and AD-2 in the lower Right hand corner.

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AD2-C01 Insert to the Attached Offsite Landscape Drawings.

1. As indicated with and AD-2 in the lower Right hand corner.

ARCHITECTURAL:

AD2-A01 Refer to Sheet X/A202 - INTERIOR FINISH SCHEDULE- BUILDING E, K1, K2 & P:

1. Remove and Replace Sheet X/A202 - INTERIOR FINISH SCHEDULE- BUILDING E, K1, K2 & P, with the attached sheet indicated as AD2-AX01.

AD2-A02 Refer to Sheet X/A304 - MODULAR CASEWORK SCHEDULE- BUILDING E, K & P:

1. Remove and Replace Sheet X/A304 - MODULAR CASEWORK SCHEDULE- BUILDING E, K & P, with the attached sheet indicated as AD2-AX02.

AD2-A03 Refer to Sheet X/A311 - CUSTOM CASEWORK DETAILS:

1. Remove and Replace Sheet X/A311 - CUSTOM CASEWORK DETAILS, with the attached sheet indicated as AD2-AX03.

AD2-A04 Refer to Sheet X/A316 - CUSTOM CASEWORK- BUILDING A a 113 AND BUILDING E a 100:

1. Remove and Replace Sheet X/A316 - CUSTOM CASEWORK- BUILDING A a 113 AND BUILDING E a 100, with the attached sheet indicated as AD2-AX04.

AD2-A05 Refer to Sheet X/A401 - OPENING SCHEDULES- DOORS- BUILDINGS A-E:

1. Remove and Replace Sheet X/A401 - OPENING SCHEDULES- DOORS- BUILDINGS A-E, with the attached sheet indicated as AD2-AX05.
2. Refer to A9- Opening Schedule, Doors- Building E, refer to opening numbers 100l, 100 m, 100 n, 100 o, 100 p, and 100 q; these under stage doors shall have hardware group 11.

AD2-A06 Refer to Sheet X/A403 - OPENING SCHEDULES- WINDOWS- BUILDINGS A-D:

1. Remove and Replace X/A403 - OPENING SCHEDULES- WINDOWS- BUILDINGS A-D, with the attached sheet indicated as AD2-AX06.

AD2-A07 Refer to Sheet X/A405 - DOOR AND WINDOW FRAME ELEVATION:

1. Remove and Replace X/A405 - DOOR AND WINDOW FRAME ELEVATION, with the attached sheet indicated as AD2-AX07.

AD2-A08 Refer to Sheet X/A431 - OPENING DETAILS- MISCELLANEOUS OPENINGS:

1. Remove and Replace X/A431 - OPENING DETAILS- MISCELLANEOUS OPENINGS, with the attached sheet indicated as AD2-AX08.

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- AD2-A09 Refer to Sheet X/A501 - EXTERIOR DETAILS- CEMENT PLASTER:**
1. All details which indicate Roof board in vertical parapet locations shall have Exterior gypsum board. This is required at all parapet locations.
- AD2-A10 Refer to Sheet X/A511 - EXTERIOR DETAILS- METAL WALL PANELS:**
2. All details which indicate Roof board in vertical parapet locations shall have Exterior gypsum board. This is required at all parapet locations.
- AD2-A11 Refer to Sheet X/A512 - EXTERIOR DETAILS- METAL WALL PANELS:**
3. Remove and Replace X/A512 - EXTERIOR DETAILS- METAL WALL PANELS, with the attached sheet indicated as AD2-AX09
- AD2-A12 Refer to Sheet X/A603 - INTERIOR DETAILS- MISCELLANEOUS:**
1. Remove and Replace X/A603 - INTERIOR DETAILS- MISCELLANEOUS, with the attached sheet indicated as AD2-AX10.
- AD2-A13 Refer to Sheet A/A101 - FLOOR PLAN:**
1. Remove and Replace A/A101 - FLOOR PLAN, with the attached sheet indicated as AD2-AX11.
- AD2-A14 Refer to Sheet A/A201 - REFLECTED CEILING PLAN:**
1. Remove and Replace A/A201 - REFLECTED CEILING PLAN, with the attached sheet indicated as AD2-AX12
- AD2-A15 Refer to Sheet A/A301 - ROOF PLAN:**
1. Remove and Replace A/A301 - ROOF PLAN, with the attached sheet indicated as AD2-AX13.
- AD2-A16 Refer to Sheet A/A602 - INTERIOR ELEVATIONS- ROOMS 105-112:**
1. Remove and Replace A/A602 - INTERIOR ELEVATIONS- ROOMS 105-112, with the attached sheet indicated as AD2-AX14.
- AD2-A17 Refer to Sheet A/A603 - INTERIOR ELEVATIONS- ROOMS 112a-113a:**
1. Remove and Replace A/A603 - INTERIOR ELEVATIONS- ROOMS 112a-113a, with the attached sheet indicated as AD2-AX15.
- AD2-A18 Refer to Sheet B/A101 - FLOOR PLAN:**
1. Remove and Replace B/A101 - FLOOR PLAN, with the attached sheet indicated as AD2-AX16.
- AD2-A19 Refer to Sheet C/A101 - FLOOR PLAN:**
1. Remove and Replace C/A101 - FLOOR PLAN, with the attached sheet indicated as AD2-AX17.

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- AD2-A20 Refer to Sheet D/A100 - OVERALL FLOOR PLAN:**
1. Remove and Replace D/A100 - OVERALL FLOOR PLAN, with the attached sheet indicated as AD2-AX18.
- AD2-A21 Refer to Sheet D/A604 - INTERIOR ELEVATIONS- ROOMS 109-110:**
1. Remove and Replace D/A604 - INTERIOR ELEVATIONS- ROOMS 109-110, with the attached sheet indicated as AD2-AX19.
- AD2-A22 Refer to Sheet D/A607 - INTERIOR ELEVATIONS- ROOMS 115a-120:**
1. Remove and Replace D/A607 - INTERIOR ELEVATIONS- ROOMS 115a-120, with the attached sheet indicated as AD2-AX20.
- AD2-A23 Refer to Sheet E/A504 - WALL SECTIONS:**
1. Remove and Replace E/A504 - WALL SECTIONS, with the attached sheet indicated as AD2-AX21.
- AD2-A24 Refer to Sheet E/A601 - INTERIOR ELEVATIONS- ROOM 100:**
1. Remove and Replace E/A601 - INTERIOR ELEVATIONS- ROOM 100, with the attached sheet indicated as AD2-AX22.
- AD2-A25 Refer to Sheet E/A602 - INTERIOR ELEVATIONS- ROOMS 101-104:**
1. Remove and Replace E/A602 - INTERIOR ELEVATIONS- ROOMS 101-104, with the attached sheet indicated as AD2-AX23.
- AD2-A26 Refer to Sheet P/A101 - FLOOR PLAN, INTERIOR ELEVATIONS, AND SIGNAGE PLAN:**
1. Remove and Replace P/A101 - FLOOR PLAN, INTERIOR ELEVATIONS, AND SIGNAGE PLAN, with the attached sheet indicated as AD2-AX24.
- STRUCTURAL:**
- AD2-S01 Refer to Sheet E/S303- HIGH ROOF FRAMING PLAN:**
1. Remove and Replace E/S303- HIGH ROOF FRAMING PLAN with the attached Sheet AD2-SX01.
- AD2-S02 Refer to Sheet E/S405- BUILDING SECTIONS:**
1. Remove and Replace E/S405- BUILDING SECTIONS with the attached Sheet AD2-SX02.
- AD2-S03 Refer to Sheet K/S201- FOUNDATION PLAN:**
1. Remove and Replace K/S201- FOUNDATION PLAN with the attached Sheet AD2-SX03.

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MECHANICAL:

AD2-M00 Refer Building E Kitchen Hood:

1. CaptiveAir is an acceptable manufacturer for the Type 1 Kitchen Hood.

AD2-M01 Refer to Sheet A/M101 - MECHANICAL FLOOR PLAN:

1. Remove and Replace A/M101 - MECHANICAL FLOOR PLAN with the attached Sheet AD2-MX01.

AD2-M02 Refer to Sheet A/M102 – MECHANICAL ERV FLOOR PLAN:

1. Remove and Replace A/M102 - MECHANICAL ERV FLOOR PLAN with the attached Sheet AD2-MX02.

AD2-M03 Refer to Sheet B/M101 – MECHANICAL FLOOR PLAN:

1. Remove and Replace B/M101 – MECHANICAL FLOOR PLAN with the attached Sheet AD2-MX03.

AD2-M04 Refer to Sheet B/M301 – MECHANICAL ROOF PLAN:

1. Remove and Replace B/M301 – MECHANICAL ROOF PLAN with the attached Sheet AD2-MX04.

AD2-M05 Refer to Sheet C/M101 – MECHANICAL FLOOR PLAN:

1. Remove and Replace C/M101 – MECHANICAL FLOOR PLAN with the attached Sheet AD2-MX05.

AD2-M06 Refer to Sheet C/M301 – MECHANICAL ROOF PLAN:

1. Remove and Replace C/M301 – MECHANICAL ROOF PLAN with the attached Sheet AD2-MX06.

AD2-M07 Refer to Sheet D/M101 – MECHANICAL FLOOR PLAN:

1. Remove and Replace D/M101 – MECHANICAL FLOOR PLAN with the attached Sheet AD2-MX07.

AD2-M08 Refer to Sheet E/M101 – MECHANICAL FLOOR PLAN:

2. Remove and Replace E/M101 – MECHANICAL FLOOR PLAN with the attached Sheet AD2-MX08.

AD2-M09 Refer to Sheet E/M301 – MECHANICAL ROOF PLAN:

1. Remove and Replace E/M301 – MECHANICAL ROOF PLAN with the attached Sheet AD2-MX09.

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- AD2-M10** **Refer to Sheet K1/M101 – MECHANICAL FLOOR PLAN:**
1. Remove and Replace K1/M101 – MECHANICAL FLOOR PLAN with the attached Sheet AD2-MX10.
- AD2-M11** **Refer to Sheet K1/M301 – MECHANICAL ROOF PLAN:**
1. Remove and Replace K1/M301 – MECHANICAL ROOF PLAN with the attached Sheet AD2-MX11.
- AD2-M12** **Refer to Sheet K2/M101 – MECHANICAL FLOOR PLAN:**
1. Remove and Replace K2/M101 – MECHANICAL FLOOR PLAN with the attached Sheet AD2-MX12.
- AD2-M13** **Refer to Sheet K2/M301 – MECHANICAL ROOF PLAN:**
1. Remove and Replace K2/M301 – MECHANICAL ROOF PLAN with the attached Sheet AD2-MX13.
- AD2-M14** **Refer to Sheet X/M102 – MECHANICAL SCHEDULES**
1. Remove and Replace X/M102 – MECHANICAL SCHEDULES with the attached Sheet AD2-MX14.
- AD2-M15** **Refer to Sheet X/M103 – MECHANICAL SCHEDULES**
1. Remove and Replace X/M103 – MECHANICAL SCHEDULES with the attached Sheet AD2-MX15.
- AD2-M16** **Refer to Sheet X/M104 – MECHANICAL SCHEDULES**
1. Remove and Replace X/M104 – MECHANICAL SCHEDULES with the attached Sheet AD2-MX16.
- AD2-M17** **Refer to Sheet X/M800 – MECHANICAL DETAILS**
1. Remove and Replace X/M800 – MECHANICAL DETAILS with the attached Sheet AD2-MX17.
- AD2-M18** **Refer to Sheet X/M801 – MECHANICAL DETAILS**
1. Remove and Replace X/M801 – MECHANICAL DETAILS with the attached Sheet AD2-MX18.
- AD2-M19** **Refer to Sheet X/M802 – KITCHEN HOOD DETAILS**
1. Remove and Replace X/M802 – KITCHEN HOOD DETAILS with the attached Sheet AD2-MX19.

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PLUMBING:

- AD2-P01 Refer to Sheet A/P101- PLUMBING FLOOR PLAN:**
2. Remove and Replace A/P101- PLUMBING FLOOR PLAN with the attached Sheet AD2-PX01.

- AD2-P02 Refer to Sheet B-P101 - PLUMBING FLOOR PLAN:**
1. Remove and Replace B-P101 - PLUMBING FLOOR PLAN with the attached Sheet AD2-PX02.

- AD2-P03 Refer to Sheet B-P102 - ENLARGED PLUMBING PLANS:**
1. Remove and Replace B-P102 - ENLARGED PLUMBING PLANS with the attached Sheet AD2-PX03.

- AD2-P04 Refer to Sheet C-P101 - PLUMBING FLOOR PLAN:**
1. Remove and Replace C-P101 - PLUMBING FLOOR PLAN with the attached Sheet AD2-PX04.

- AD2-P05 Refer to Sheet C-P102 – ENLARGED PLUMBING FLOOR PLANS:**
1. Remove and Replace C-P102 – ENLARGED PLUMBING FLOOR PLANS with the attached Sheet AD2-PX05.

- AD2-P06 Refer to Sheet D-P101 - PLUMBING FLOOR PLAN:**
1. Remove and Replace D-P101 - PLUMBING FLOOR PLAN with the attached Sheet AD2-PX06.

- AD2-P07 Refer to Sheet D-P102 - ENLARGED PLUMBING PLAN:**
1. Remove and Replace D-P102 - ENLARGED PLUMBING PLAN with the attached Sheet AD2-PX07.

- AD2-P08 Refer to Sheet E-P101 - PLUMBING FLOOR PLAN:**
1. Remove and Replace E-P101 - PLUMBING FLOOR PLAN with the attached Sheet AD2-PX08.

- AD2-P09 Refer to Sheet E-P102 - ENLARGED PLUMBING PLANS - KITCHEN:**
1. Remove and Replace E-P102 - ENLARGED PLUMBING PLANS – KITCHEN with the attached Sheet AD2-PX09.

- AD2-P10 Refer to Sheet E-P103 - ENLARGED PLUMBING PLANS - RESTROOMS:**
1. Remove and Replace E-P103 - ENLARGED PLUMBING PLANS – RESTROOMS with the attached Sheet AD2-PX10.

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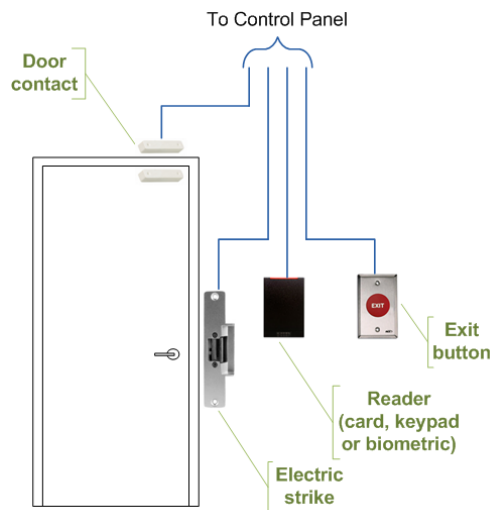
AD2-P11 Refer to Sheet K2-P101 - PLUMBING FLOOR PLAN:
1. Remove and Replace K2-P101 - PLUMBING FLOOR PLAN with the attached Sheet AD2-PX11.

AD2-P12 Refer to Sheet X-P102 - PLUMBING SCHEDULES:
1. Remove and Replace X-P102 - PLUMBING SCHEDULES with the attached Sheet AD2-PX12.

AD2-P13 Refer to Sheet X-P801 - PLUMBING DETAILS:
1. Remove and Replace X-P801 - PLUMBING DETAILS with the attached Sheet AD2-PX13.

ELECTRICAL:

AD2-E00 Contractor shall provide rough-in for future access control at all Exterior doors campus wide. Provide Junction boxes with blank covers adjacent to each door with conduit terminated at an accessible concealed ceiling space as illustrated below.



AD2-E01 Refer to Sheet X/E101 - ELECTRICAL SYSTEMS - SYMBOLS, NOTES, AND DETAILS:
1. Remove and Replace X/E101 - ELECTRICAL SYSTEMS - SYMBOLS, NOTES, AND DETAILS with the attached Sheet AD2-EX01.

AD2-E02 Refer to Sheet X/E201 - LIGHTING SYSTEMS - FIXTURE SCHEDULE, DETAILS:
1. Remove and Replace X/E201 - LIGHTING SYSTEMS - FIXTURE SCHEDULE, DETAILS with the attached Sheet AD2-EX02.

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- AD2-E03** **Refer to Sheet X/E202 – LIGHTING SYSTEMS – DETAILS:**
1. Remove and Replace X/E202 - LIGHTING SYSTEMS – DETAILS with the attached Sheet AD2-EX03.
- AD2-E04** **Refer to Sheet X/E302 – POWER SYSTEMS – PANEL SCHEDULES, DETAILS:**
1. Remove and Replace X/E302 - POWER SYSTEMS – PANEL SCHEDULES, DETAILS with the attached Sheet AD2-EX04.
- AD2-E05** **Refer to Sheet X/E303 – POWER SYSTEMS – PANEL SCHEDULES:**
1. Remove and Replace X/E303 - POWER SYSTEMS – PANEL SCHEDULES with the attached Sheet AD2-EX05.
- AD2-E06** **Refer to Sheet X/E401 – LOW VOLTAGE SYSTEMS – DETAILS AND DIAGRAMS:**
1. Remove and Replace X/E401 - LOW VOLTAGE SYSTEMS – DETAILS AND DIAGRAMS with the attached Sheet AD2-EX06.
- AD2-E07** **Refer to Sheet X/E402 – LOW VOLTAGE SYSTEMS – DETAILS AND DIAGRAMS:**
1. Remove and Replace X/E402 - LOW VOLTAGE SYSTEMS – DETAILS AND DIAGRAMS with the attached Sheet AD2-EX07.
- AD2-E08** **Refer to Sheet X/E403 – LOW VOLTAGE SYSTEMS – DETAILS:**
1. Remove and Replace X/E403 - LOW VOLTAGE SYSTEMS – DETAILS the attached Sheet AD2-EX08.
- AD2-E09** **Refer to Sheet A/E101 – BUILDING A – LIGHTING PLAN:**
1. Remove and Replace A/E101 - BUILDING A – LIGHTING PLAN the attached Sheet AD2-EX09.
- AD2-E10** **Refer to Sheet A/E201 – BUILDING A – POWER PLAN:**
1. Remove and Replace A/E201 - BUILDING A – POWER PLAN the attached Sheet AD2-EX10.
- AD2-E11** **Refer to Sheet A/E401 – BUILDING A – LOW VOLTAGE PLAN:**
1. Remove and Replace A/E401 - BUILDING A – LOW VOLTAGE PLAN the attached Sheet AD2-EX11.
- AD2-E12** **Refer to Sheet A/E501 – BUILDING A – FIRE ALARM PLAN:**
1. Remove and Replace A/E501 - BUILDING A – FIRE ALARM PLAN the attached Sheet AD2-EX12.

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- AD2-E13 Refer to Sheet B/E101 – BUILDING B – LIGHTING PLAN:**
1. Remove and Replace B/E101 - BUILDING B – LIGHTING PLAN the attached Sheet AD2-EX13.
- AD2-E14 Refer to Sheet B/E201 – BUILDING B – POWER PLAN:**
1. Remove and Replace B/E201 - BUILDING B – POWER PLAN the attached Sheet AD2-EX14.
- AD2-E15 Refer to Sheet B/E401 – BUILDING B – LOW VOLTAGE PLAN:**
1. Remove and Replace B/E401 - BUILDING B – LOW VOLTAGE PLAN the attached Sheet AD2-EX15.
- AD2-E16 Refer to Sheet C/E101 – BUILDING C – LIGHTING PLAN:**
1. Remove and Replace C/E101 - BUILDING C – LIGHTING PLAN the attached Sheet AD2-EX16.
- AD2-E17 Refer to Sheet C/E201 – BUILDING C – POWER PLAN:**
1. Remove and Replace C/E201 - BUILDING C – POWER PLAN the attached Sheet AD2-EX17.
- AD2-E18 Refer to Sheet C/E401 – BUILDING C – LOW VOLTAGE PLAN:**
1. Remove and Replace C/E401 - BUILDING C – LOW VOLTAGE PLAN the attached Sheet AD2-EX18.
- AD2-E19 Refer to Sheet D/E101 – BUILDING D – LIGHTING PLAN:**
1. Remove and Replace D/E101 - BUILDING D – LIGHTING PLAN the attached Sheet AD2-EX19.
- AD2-E20 Refer to Sheet D/E201 – BUILDING D – POWER PLAN:**
1. Remove and Replace D/E201 - BUILDING D – POWER PLAN the attached Sheet AD2-EX20.
- AD2-E21 Refer to Sheet D/E401 – BUILDING D – LOW VOLTAGE PLAN:**
1. Remove and Replace D/E401 - BUILDING D – LOW VOLTAGE PLAN the attached Sheet AD2-EX21.
- AD2-E22 Refer to Sheet E/E101 – BUILDING E – LIGHTING PLAN:**
1. Remove and Replace E/E101 - BUILDING E – LIGHTING PLAN the attached Sheet AD2-EX22.

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- AD2-E23 Refer to Sheet E/E201 – BUILDING E – POWER PLAN:**
1. Remove and Replace E/E201 - BUILDING E – POWER PLAN the attached Sheet AD2-EX23.
- AD2-E24 Refer to Sheet E/E401 – BUILDING E – LOW VOLTAGE PLAN:**
1. Remove and Replace E/E401 - BUILDING E – LOW VOLTAGE PLAN the attached Sheet AD2-EX24.
- AD2-E25 Refer to Sheet K/E401 – BUILDING K – LOW VOLTAGE PLAN:**
1. Remove and Replace K/E401 - BUILDING K – LOW VOLTAGE PLAN the attached Sheet AD2-EX25.
- AD2-E26 Refer to Sheet P/E101 – BUILDING P – ELECTRICAL PLAN AND FIRE ALARM PLAN:**
1. Remove and Replace P/E101 - BUILDING P – ELECTRICAL PLAN AND FIRE ALARM PLAN the attached Sheet AD2-EX26.

FIRE PROTECTION:

- AD2-FP01 Refer to Sheet X/F001 – TYPICAL INFORMATION – GENERAL INFORMATION:**
1. Remove and Replace X/F001 - TYPICAL INFORMATION – GENERAL INFORMATION with the attached Sheet AD2-FX01.
- AD2-FP02 Refer to Sheet X/F501 – TYPICAL INFORMATION – DTEAILS:**
1. Remove and Replace X/F501 - TYPICAL INFORMATION – DETAILS with the attached Sheet AD2-FX02.
- AD2-FP03 Refer to Sheet A/F101 – FIRE PROTECTION – BLDG A GROUND LEVEL PIPING PLAN:**
1. Remove and Replace A/F101 - FIRE PROTECTION – BLDG A GROUND LEVEL PIPING PLAN: with the attached Sheet AD2-FX03.
- AD2-FP04 Refer to Sheet A/F201 – FIRE PROTECTION – BLDG A GROUND LEVEL RCP:**
1. Remove and Replace A/F201 - FIRE PROTECTION – BLDG A GROUND LEVEL RCP: with the attached Sheet AD2-FX04.
- AD2-FP05 Refer to Sheet A/F401 – BUILDING A – ADMINISTRATION - SECTIONS:**
1. Remove and Replace A/F401 - BUILDING A – ADMINISTRATION - SECTIONS: with the attached Sheet AD2-FX05.

PROJECT: McKinley/ Fowler Elementary School- Increment 2

ADDENDUM NO. 2..... **DATE:** 02/24/23
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- AD2-FP06 Refer to Sheet B/F101 – FIRE PROTECTION – BLDG B GROUND LEVEL PIPING PLAN:**

 - 1. Remove and Replace B/F101 - FIRE PROTECTION – BLDG B GROUND LEVEL PIPING PLAN: with the attached Sheet AD2-FX06.

- AD2-FP07 Refer to Sheet B/F201 – FIRE PROTECTION – BLDG B GROUND LEVEL RCP:**

 - 1. Remove and Replace B/F201 - FIRE PROTECTION – BLDG B GROUND LEVEL RCP: with the attached Sheet AD2-FX07.

- AD2-FP08 Refer to Sheet B/F401 – BUILDING B – UPPER GRADES - SECTIONS:**

 - 1. Remove and Replace B/F401 – BUILDING B – UPPER GRADES - SECTIONS: with the attached Sheet AD2-FX08.

- AD2-FP09 Refer to Sheet C/F101 – FIRE PROTECTION – GROUND LEVEL PIPING PLAN:**

 - 1. Remove and Replace C/F101- FIRE PROTECTION – GROUND LEVEL PIPING PLAN: with the attached Sheet AD2-FX09.

- AD2-FP10 Refer to Sheet C/F201 – FIRE PROTECTION – GROUND LEVEL RCP:**

 - 1. Remove and Replace C/F201- FIRE PROTECTION – GROUND LEVEL RCP: with the attached Sheet AD2-FX10.

- AD2-FP11 Refer to Sheet C/F401 – BUILDING C – LOWER/UPPER GRADES - SECTIONS:**

 - 1. Remove and Replace C/F401- BUILDING C – LOWER/UPPER GRADES - SECTIONS: with the attached Sheet AD2-FX11.

- AD2-FP12 Refer to Sheet D/F101 – BUILDING D– GROUND LEVEL PIPING PLAN WEST:**

 - 1. Remove and Replace D/F101- BUILDING D– GROUND LEVEL PIPING PLAN WEST: with the attached Sheet AD2-FX12.

- AD2-FP13 Refer to Sheet D/F102 – BUILDING D– GROUND LEVEL PIPING PLAN EAST:**

 - 1. Remove and Replace D/F102- BUILDING D– GROUND LEVEL PIPING PLAN EAST: with the attached Sheet AD2-FX13.

- AD2-FP14 Refer to Sheet D/F105 – BUILDING D– GROUND LEVEL RCP EAST:**

 - 1. Remove and Replace D/F105- BUILDING D– GROUND LEVEL RCP EAST: with the attached Sheet AD2-FX14.

- AD2-FP15 Refer to Sheet D/F106 – BUILDING D– GROUND LEVEL RCP WEST:**

 - 1. Remove and Replace D/F106- BUILDING D– GROUND LEVEL RCP WEST: with the attached Sheet AD2-FX15.

PROJECT: McKinley/ Fowler Elementary School- Increment 2

ADDENDUM NO. 2..... **DATE:** 02/24/23
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AD2-FP16 Refer to Sheet E/F101 – FIRE PROTECTION – BUILDING E – GROUND LEVEL PIPING PLAN:

1. Remove and Replace E/F101- FIRE PROTECTION – BUILDING E – GROUND LEVEL PIPING PLAN: with the attached Sheet AD2-FX16.

AD2-FP17 Refer to Sheet E/F201 – FIRE PROTECTION – BUILDING E – GROUND LEVEL RCP:

1. Remove and Replace E/F201- FIRE PROTECTION – BUILDING E – GROUND LEVEL RCP: with the attached Sheet AD2-FX17.

AD2-FP18 Refer to Sheet E/F401 – BUILDING E – MULTI-PURPOSE - SECTIONS:

1. Remove and Replace E/F401- BUILDING E – MULTI-PURPOSE - SECTIONS: with the attached Sheet AD2-FX18.

AD2-FP19 Refer to Sheet K1/F101 – BUILDING K1 – GROUND LEVEL PIPING PLAN:

1. Remove and Replace K1/F101- BUILDING K1 – GROUND LEVEL PIPING PLAN: with the attached Sheet AD2-FX19.

AD2-FP20 Refer to Sheet K/F201 – BUILDING K1 – GROUND LEVEL RCP:

1. Remove and Replace K/F201- BUILDING K1 – GROUND LEVEL RCP: with the attached Sheet AD2-FX20.

AD2-FP21 Refer to Sheet K1/F401 – BUILDING K1 – SECTIONS:

1. Remove and Replace K1/F401- BUILDING K1 – SECTIONS: with the attached Sheet AD2-FX21.

AD2-FP22 Refer to Sheet K2/F101 – BUILDING K2 – GROUND LEVEL PIPING PLAN:

1. Remove and Replace K2/F101- BUILDING K2 – GROUND LEVEL PIPING PLAN: with the attached Sheet AD2-FX22.

AD2-FP23 Refer to Sheet K2/F201 – BUILDING K2 – GROUND LEVEL RCP:

1. Remove and Replace K2/F201- BUILDING K2 – GROUND LEVEL RCP: with the attached Sheet AD2-FX23.

AD2-FP24 Refer to Sheet K2/F401 – BUILDING K2 - SECTIONS:

1. Remove and Replace K2/F401- BUILDING K2 – SECTIONS: with the attached Sheet AD2-FX24.

END OF ADDENDUM NO. 2

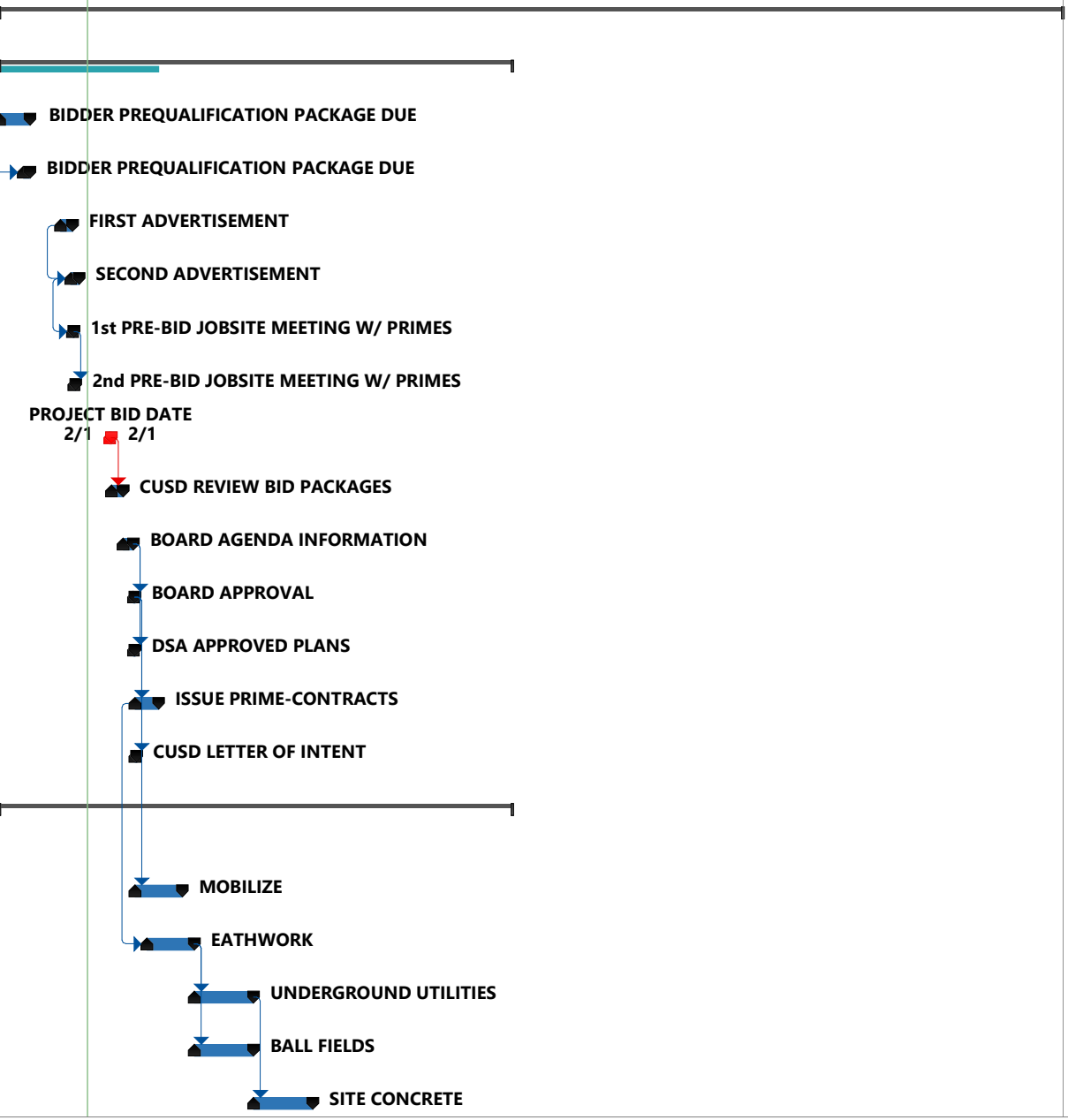
PRELIMINARY BID SCHEDULE

CLOVIS UNIFIED

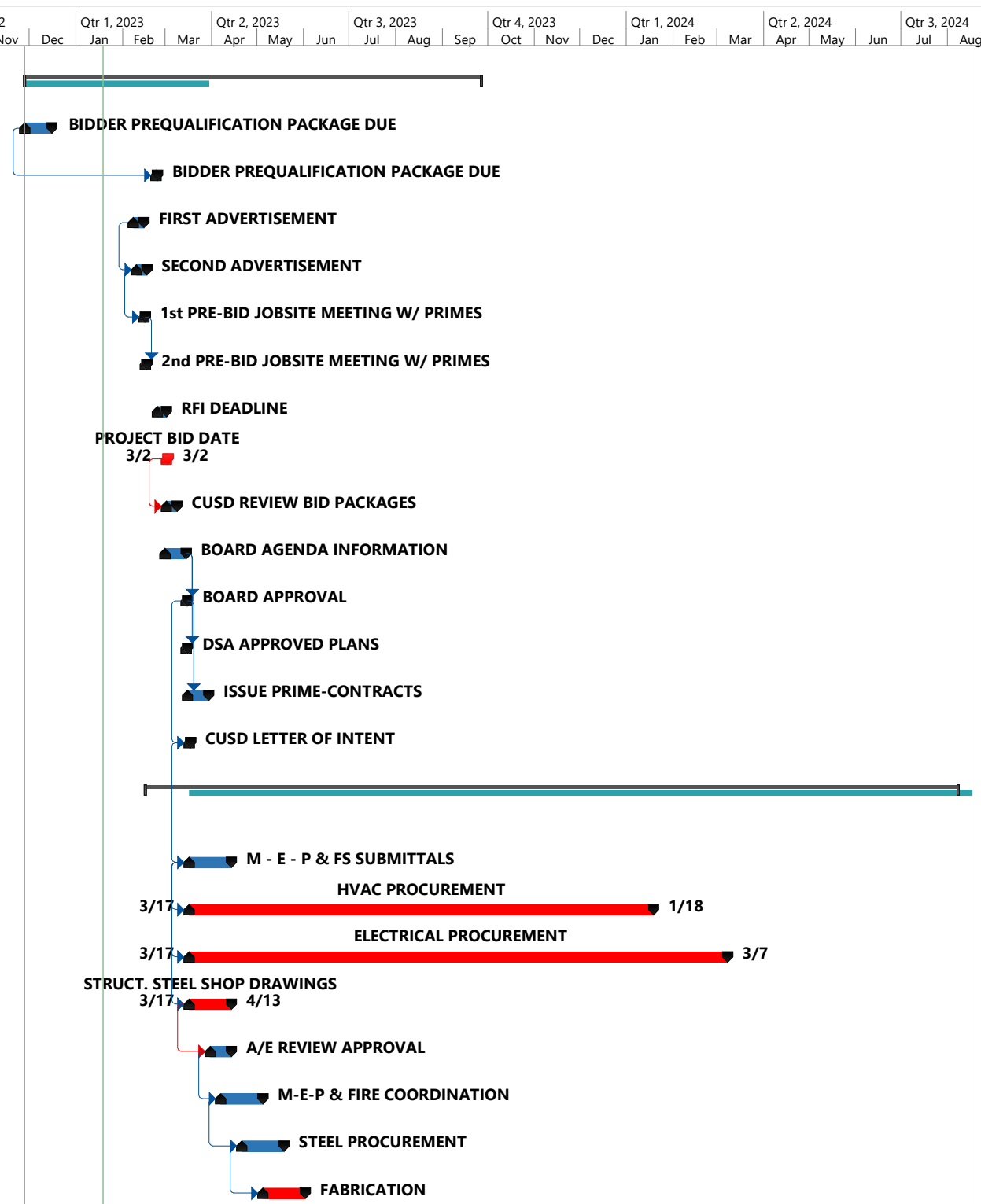
NEW CLOVIS ELEMENTARY FOWLER / McKINLEY

BUSH / DARDEN

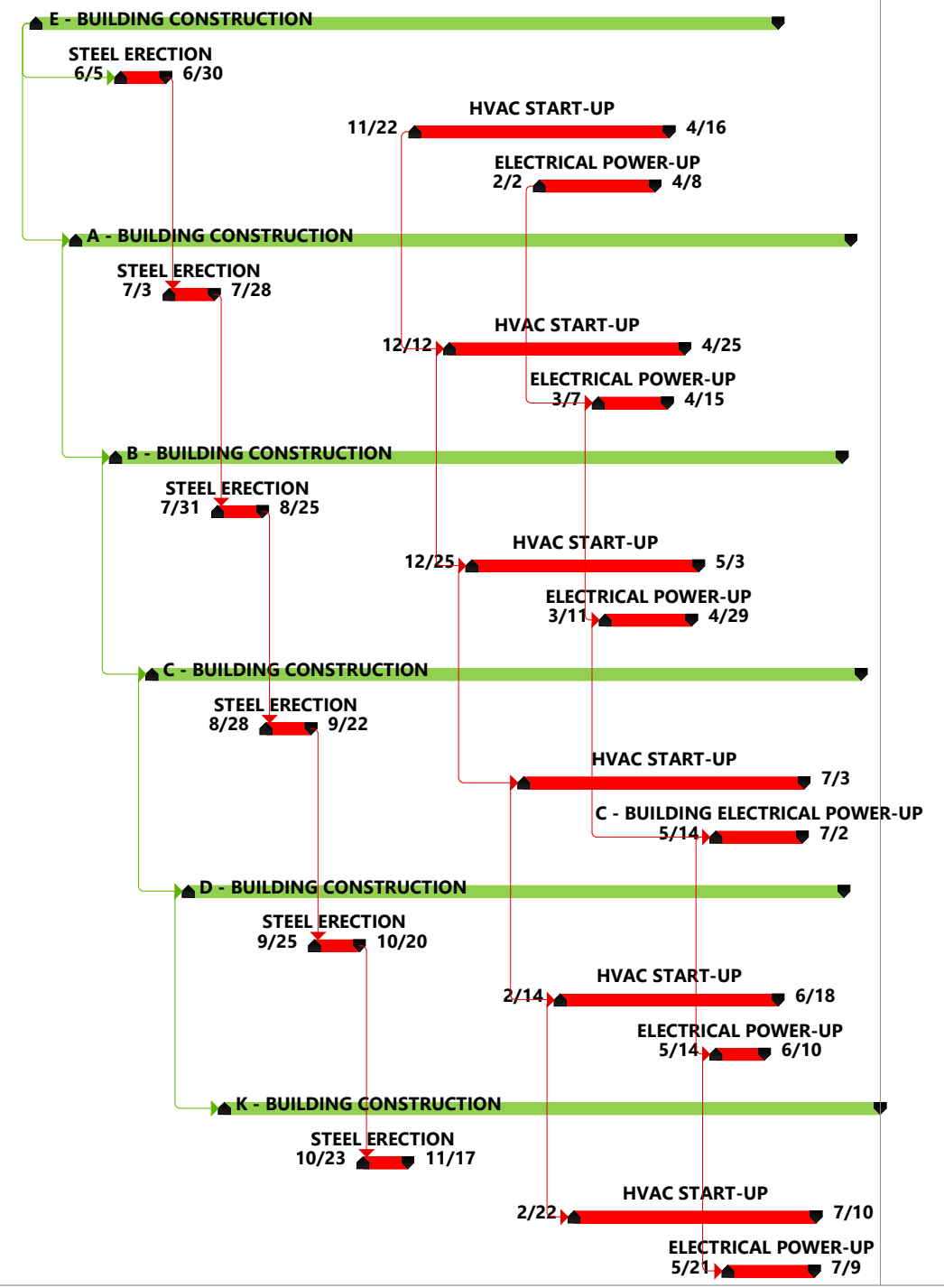
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 4, 2022			Qtr 1, 2023			Qtr 2, 2023			Qtr 3, 2023			Qtr 4, 2023			Qtr 1, 2024			Qtr 2, 2024			Qtr 3, 2024		
							Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1		McKINLEY - FOWLER ELEMENTARY	450 days?	Mon 11/28/22	Fri 8/16/24																									
2		INCREMENT 1 PRE-BID OVERVIEW	217 days?	Mon 11/28/22	Tue 9/26/23																									
3		BIDDER PREQUALIFICATION PACKAGE DUE	14 days	Mon 11/28/22	Thu 12/15/22																									
4		BIDDER PREQUALIFICATION PACKAGE DUE	4 days	Mon 12/12/22	Thu 12/15/22	3SS+10 days																								
5		FIRST ADVERTISEMENT	5 days	Tue 1/3/23	Mon 1/9/23																									
6		SECOND ADVERTISEMENT	5 days	Mon 1/9/23	Fri 1/13/23	5SS+4 days																								
7		1st PRE-BID JOBSITE MEETING W/ PRIMES	1 day	Tue 1/10/23	Tue 1/10/23	6SS+1 day																								
8		2nd PRE-BID JOBSITE MEETING W/ PRIMES	1 day	Wed 1/11/23	Wed 1/11/23	7																								
9		PROJECT BID DATE	1 day	Wed 2/1/23	Wed 2/1/23																									
10		CUSD REVIEW BID PACKAGES	5 days	Thu 2/2/23	Wed 2/8/23	9																								
11		BOARD AGENDA INFORMATION	4 days	Thu 2/9/23	Tue 2/14/23																									
12		BOARD APPROVAL	1 day	Wed 2/15/23	Wed 2/15/23	11																								
13		DSA APPROVED PLANS	1 day	Wed 2/15/23	Wed 2/15/23	11																								
14		ISSUE PRIME-CONTRACTS	10 days	Thu 2/16/23	Wed 3/1/23	12																								
15		CUSD LETTER OF INTENT	1 day	Thu 2/16/23	Thu 2/16/23	12																								
16		INCREMENT 1 CONSTRUCTION PHASE OVERVIEW	217 days?	Mon 11/28/22	Tue 9/26/23																									
17		MOBILIZE	20 days	Thu 2/16/23	Wed 3/15/23	12																								
18		EATHWORK	20 days	Thu 2/23/23	Wed 3/22/23	14SS+5 days																								
19		UNDERGROUND UTILITIES	25 days	Thu 3/23/23	Wed 4/26/23	18																								
20		BALL FIELDS	25 days	Thu 3/23/23	Wed 4/26/23	18																								
21		SITE CONCRETE	25 days	Thu 4/27/23	Wed 5/31/23	19																								



ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 4, 2022			Qtr 1, 2023			Qtr 2, 2023			Qtr 3, 2023			Qtr 4, 2023			Qtr 1, 2024			Qtr 2, 2024			Qtr 3, 2024		
							Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
22	★	INCREMENT 2 PRE-BID OVERVIEW	217 days?	Mon 11/28/22	Tue 9/26/23																									
23	→	BIDDER PREQUALIFICATION PACKAGE DUE	14 days	Mon 11/28/22	Thu 12/15/22																									
24	→	BIDDER PREQUALIFICATION PACKAGE DUE	1 day	Thu 2/23/23	Thu 2/23/23	23SS+10 days																								
25	→	FIRST ADVERTISEMENT	5 days	Wed 2/8/23	Tue 2/14/23																									
26	→	SECOND ADVERTISEMENT	5 days	Fri 2/10/23	Thu 2/16/23	25SS+2 days																								
27	→	1st PRE-BID JOBSITE MEETING W/ PRIMES	1 day	Wed 2/15/23	Wed 2/15/23	26SS+3 days																								
28	→	2nd PRE-BID JOBSITE MEETING W/ PRIMES	1 day	Thu 2/16/23	Thu 2/16/23	27																								
29	→	RFI DEADLINE	4 days	Fri 2/24/23	Wed 3/1/23																									
30	→	PROJECT BID DATE	1 day	Thu 3/2/23	Thu 3/2/23																									
31	→	CUSD REVIEW BID PACKAGES	5 days	Thu 3/2/23	Wed 3/8/23	30SS																								
32	→	BOARD AGENDA INFORMATION	10 days	Wed 3/1/23	Tue 3/14/23																									
33	→	BOARD APPROVAL	1 day	Wed 3/15/23	Wed 3/15/23	32																								
34	→	DSA APPROVED PLANS	1 day	Wed 3/15/23	Wed 3/15/23	32																								
35	→	ISSUE PRIME-CONTRACTS	10 days	Thu 3/16/23	Wed 3/29/23	33																								
36	→	CUSD LETTER OF INTENT	1 day	Fri 3/17/23	Fri 3/17/23	33SS+2 days																								
37	★	INCREMENT 2 CONSTRUCTION PHASE OVERVIEW	385 days	Thu 2/16/23	Wed 8/7/24																									
38	→	M - E - P & FS SUBMITTALS	20 days	Fri 3/17/23	Thu 4/13/23	36SS																								
39	→	HVAC PROCUREMENT	220 days	Fri 3/17/23	Thu 1/18/24	38SS																								
40	→	ELECTRICAL PROCUREMENT	255 days	Fri 3/17/23	Thu 3/7/24	38SS																								
41	→	STRUCT. STEEL SHOP DRAWINGS	20 days	Fri 3/17/23	Thu 4/13/23	38SS																								
42	→	A/E REVIEW APPROVAL	10 days	Fri 3/31/23	Thu 4/13/23	41SS+10 days																								
43	→	M-E-P & FIRE COORDINATION	20 days	Fri 4/7/23	Thu 5/4/23	42SS+5 days																								
44	→	STEEL PROCUREMENT	20 days	Fri 4/21/23	Thu 5/18/23	43SS+10 days																								
45	→	FABRICATION	20 days	Fri 5/5/23	Thu 6/1/23	44SS+10 days																								



ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 4, 2022			Qtr 1, 2023			Qtr 2, 2023			Qtr 3, 2023			Qtr 4, 2023			Qtr 1, 2024			Qtr 2, 2024			Qtr 3, 2024		
							Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
46		E - BUILDING CONSTRUCTION	307 days	Mon 4/17/23	Tue 6/18/24																									
47		STEEL ERECTION	20 days	Mon 6/5/23	Fri 6/30/23	46SS+35 days																								
48		HVAC START-UP	105 days	Wed 11/22/23	Tue 4/16/24																									
49		ELECTRICAL POWER-UP	47 days	Fri 2/2/24	Mon 4/8/24																									
50		A - BUILDING CONSTRUCTION	320 days	Wed 5/10/23	Tue 7/30/24	46SS+17 days																								
51		STEEL ERECTION	20 days	Mon 7/3/23	Fri 7/28/23	47																								
52		HVAC START-UP	98 days	Tue 12/12/23	Thu 4/25/24	48SS+14 days																								
53		ELECTRICAL POWER-UP	28 days	Thu 3/7/24	Mon 4/15/24	49SS+24 days																								
54		B - BUILDING CONSTRUCTION	300 days	Fri 6/2/23	Thu 7/25/24	50SS+17 days																								
55		STEEL ERECTION	20 days	Mon 7/31/23	Fri 8/25/23	51																								
56		HVAC START-UP	95 days	Mon 12/25/23	Fri 5/3/24	52SS+9 days																								
57		ELECTRICAL POWER-UP	36 days	Mon 3/11/24	Mon 4/29/24	53SS+2 days																								
58		C - BUILDING CONSTRUCTION	292 days	Fri 6/23/23	Mon 8/5/24	54SS+15 days																								
59		STEEL ERECTION	20 days	Mon 8/28/23	Fri 9/22/23	55																								
60		HVAC START-UP	116 days	Wed 1/24/24	Wed 7/3/24	56SS+22 days																								
61		C - BUILDING ELECTRICAL POWER-UP	36 days	Tue 5/14/24	Tue 7/2/24	57SS+46 days																								
62		D - BUILDING CONSTRUCTION	271 days	Fri 7/14/23	Fri 7/26/24	58SS+15 days																								
63		STEEL ERECTION	20 days	Mon 9/25/23	Fri 10/20/23	59																								
64		HVAC START-UP	90 days	Wed 2/14/24	Tue 6/18/24	60SS+15 days																								
65		ELECTRICAL POWER-UP	20 days	Tue 5/14/24	Mon 6/10/24	61SS																								
66		K - BUILDING CONSTRUCTION	271 days	Fri 8/4/23	Fri 8/16/24	62SS+15 days																								
67		STEEL ERECTION	20 days	Mon 10/23/23	Fri 11/17/23	63																								
68		HVAC START-UP	100 days	Thu 2/22/24	Wed 7/10/24	64SS+6 days																								
69		ELECTRICAL POWER-UP	36 days	Tue 5/21/24	Tue 7/9/24	65SS+5 days																								



INCREMENT NO. 1

Bid Package #	Bid Package Description	Contractor License Requirement (, = or)
CES-01	EARTHWORK, CONCRETE, & CMU	A, B, C-8, C-12
CES-02	SITE UTILITIES PLUMBING: DOMESTIC, SANITARY, STORM, FIRE, & GAS	A, C-36
CES-03	SITE ELECTRICAL & LOW VOLTAGE	C-10
CES-04	LANDSCAPE	C-27

INCREMENT NO. 2

Bid Package #	Bid Package Description	Contractor License Requirement (, = or)
CES-05	BUILDING CONCRETE & REBAR	B, C-8
CES-06	STRUCTURAL STEEL	C-51
CES-07	METAL PANELS, ROOFING, & SHEET METAL	C-39, C-43
CES-08	FINISH CARPENTRY	B, C-6
CES-09	METAL FRAMING, PLASTER, AND GYPSUM BOARD	C-9, C-35
CES-10	WALL MATERIALS AND ACOUSTICAL CEILINGS	C-2
CES-11	PAINTING	C-33
CES-12	GENERAL SPECIALTIES	B
CES-13	FIRE SPRINKLERS	C-16
CES-14	BUILDING PLUMBING & HVAC	C-36, C-20
CES-15	BUILDING ELECTRICAL	C-10
CES-16	OFF-SITE IMPROVEMENTS	A



FOWLER MCKINLEY ELEMENTARY SCHOOL

BID PACKAGES CES-01, CES-02, CES-03, & CES-04 PREVIOUSLY BID IN INCREMENT #1

CES-01 EARTHWORK, SITE CONCRETE, & CMU

Section 01 57 23 Storm Water Pollution Prevention Plan
 Section 03 11 01 Concrete Formwork
 Section 03 15 14 Drilled Anchors
 Section 03 20 00 Reinforcement
 Section 03 30 00 Cast-In-Place Concrete
 Section 04 22 00 Concrete Masonry Units (CMU)
 Section 07 14 16 Fluid-Applied Waterproofing
 Section 07 92 00 Sealants
 Section 08 70 00 Hardware
 Section 08 70 00.01 Hardware schedule
 Section 10 05 00 Miscellaneous Specialties (Stair Striping)
 Section 10 14 53 Road and Parking Signage
 Section 10 75 00 Flagpoles
 Section 11 68 13 Play Equipment
 Section 12 93 13 Bicycle Racks
 Section 31 00 00 Offsite Development
 Section 31 10 00 Site Clearing
 Section 31 11 00 Clearing and Demolition
 Section 31 20 00 Earthwork
 Section 31 22 22 Soil Materials
 Section 31 23 33 Trench Excavation and Backfill
 Section 32 12 00 Pavement
 Section 32 12 16 Soil Sterilization (Weed Control)
 Section 32 18 16 Playground Surfacing
 Section 32 19 19 Ornamental Metal
 Section 32 31 13 Chain Link

CES-02 SITE UTILITIES PLUMBING: DOMESTIC, SANITARY, STORM, FIRE, & GAS

Section 03 30 00 Cast in place Concrete (As applicable to storm, sewer, manholes, thrust blocks, etc.)
 Section 21 05 23 General Duty Valves for Fire Protection
 Section 21 05 53 Identification for Fire Protection
 Section 21 11 00 Facility Fire Suppression Water Service Piping
 Section 21 11 19 Fire Department Connections
 Section 22 00 00 General Plumbing Provisions (Gas, Water, Fire Water, Storm, Sewer)
 Section 22 00 50 Plumbing (Gas, Water, Fire Water, Storm, Sewer)
 Section 23 01 00 General Mechanical Provisions (As Applicable)
 Section 31 23 33 Trench Excavation and Backfill
 Section 33 12 00 Water Utilities
 Section 33 30 00 Site Sewer Systems
 Section 33 40 00 Storm Drainage



CES-03 SITE ELECTRICAL & LOW VOLTAGE

- Section 03 15 14 Drilled Anchors
- Section 03 30 00 Cast in place Concrete (As applicable to slurry, and light pole bases, and grouting)
- Section 26 05 00 Common Work Results for Electrical
- Section 26 05 26 Grounding
- Section 26 05 53 Electrical Identification
- Section 26 20 00 Low Voltage Electrical Transmission
- Section 27 00 00 Telecommunication Systems
- Section 27 05 28 Communications Infrastructure System
- Section 27 10 00 Structured Cabling System

CES-04 LANDSCAPE

- Section 03 15 14 Drilled Anchors
- Section 32 84 00 Landscape Irrigation System
- Section 32 90 00 Landscape Construction

CES-05 BUILDING CONCRETE AND REBAR

- Section 03 11 01 Concrete Formwork
- Section 03 15 14 Drilled Anchors
- Section 03 20 00 Reinforcement
- Section 03 30 00 Cast-In-Place Concrete
- Section 07 14 16 Fluid Applied Waterproofing
- Section 07 92 00 Sealants

CES-06 STRUCTURAL STEEL

- Section 05 12 00 Steel and Fabrications
- Section 05 30 00 Metal Deck

CES-07 SHEET METALS, MEMBRANE ROOFS, WALL AND ROOF PANEL SYSTEMS

- Section 07 21 00 Insulation (As applicable to roof systems)
- Section 07 40 00 Metal Panels
- Section 07 54 19 Elastomeric Membrane Roofing
- Section 07 60 00 Sheet Metal
- Section 07 92 00 Sealants

CES-08 FINISH CARPENTRY

- Section 06 22 00 Millwork
- Section 06 41 23 Modular Casework

CES-09 METAL FRAMING, PLASTER, AND GYPSUM BOARD

- Section 03 15 14 Drilled Anchors
- Section 07 21 00 Insulation (as applicable to all exterior wall rigid insulation)
- Section 09 22 16 Metal Framing
- Section 09 24 00 Cement Plaster
- Section 09 29 00 Gypsum Board



CES-10 WALL MATERIALS AND ACOUSTICAL CEILINGS

Section 09 50 00 Acoustical Ceilings
 Section 09 72 00 Wall Coverings
 Section 10 26 00 Wall and Corner Guards

CES-11 PAINTING

Section 03 35 10 Polished Concrete Finishing
 Section 07 92 00 Sealants
 Section 09 67 23 Resinous Flooring
 Section 09 91 00 Painting

CES-12 GENERAL SPECIALTIES

Section 01 64 00 Owner Furnished Items (ADDENDA #2)

Section 01 74 19 Waste Management
 Section 03 15 14 Drilled Anchors
 Section 06 10 00 Rough Carpentry
 Section 07 18 50 Vapor-Alkalinity Control
 Section 07 21 00 Insulation
 Section 07 72 00 Roof Accessories
 Section 07 92 00 Sealants
 Section 08 11 00 Metal Doors and Frames
 Section 08 15 13 Laminate-Faced Wood Doors
 Section 08 31 13 Access Doors and Frames
 Section 08 33 00 Coiling Doors
 Section 08 41 00 Storefronts

Section 08 41 13 Folding Door System (ADDENDA #2)

Section 08 56 59 Service Windows
 Section 08 70 00 Hardware
 Section 08 70 00.1 Hardware Schedule
 Section 08 80 00 Glass
 Section 09 30 00 Tile
 Section 09 64 66 Resilient Wood Floor
 Section 09 65 10 Resilient Base and Accessories
 Section 09 65 16 Resilient Sheet
 Section 09 68 40 Carpet
 Section 10 05 00 Miscellaneous Specialties (Building Plaque, Dimensional Letters, **Cubicle Curtain System, Folding Partitions, Lock Box, Stair Stripping, Safe, Book Cart, Projection Screen**) (ADDENDA #2)

Section 10 11 00 Visual Display Boards
 Section 10 14 00 Identifying Devices
 Section 10 21 13 Toilet Partitions
 Section 10 28 13 Toilet Accessories
 Section 10 44 00 Fire Protection Specialties
 Section 10 51 13 Metal Lockers
 Section 11 16 16 Safes
 Section 11 40 00.01 Food Service Equipment
 Section 11 61 43 Platform Curtains

CES-12 GENERAL SPECIALTIES - CONTINUED

Section 11 68 13 Play Equipment

Section 14 42 00 Wheelchair Lifts

CES-13 FIRE SPRINKLERS

Section 03 15 14 Drilled Anchors

Section 07 92 00 Sealants

Section 21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping

Section 21 05 18 Escutcheons for Fire-Suppression Piping

Section 21 05 23 General-Duty Valves for Fire Protection Piping

Section 21 05 29 Hangers and Supports for Fire Suppression Piping and Equipment

Section 21 05 48 Vibration & Seismic Controls for Fire-Suppression Piping & Equipment

Section 21 05 53 Identification for Fire-Suppression Piping and Equipment

Section 21 11 00 Facility Fire-Suppression Water-Service Piping

Section 21 11 19 Fire Department Connections

Section 21 13 13 Wet-Pipe Sprinkler Systems

CES-14 BUILDING PLUMBING and HVAC

Section 03 15 14 Drilled Anchors

Section 05 12 00 Steel and Fabrications (For downspouts/RWL's and support attachments)

Section 07 92 00 Sealants

Section 08 91 00 Louvers

Section 22 00 00 General Plumbing Provisions

Section 22 00 50 Plumbing

Section 23 01 00 General Mechanical Provisions

Section 23 01 00 General Mechanical Provisions

Section 23 05 00 Common Work Results for HVAC

Section 23 05 13 Common Motor Requirements for HVAC Equipment

Section 23 05 29 Hangers and Supports for HVAC Piping and Equipment

Section 23 05 48 Vibration and Seismic Controls for HVAC Piping and Equipment

Section 23 05 53 Identification for HVAC Piping and Equipment

Section 23 05 93 Testing, Adjusting, and Balancing for HVAC

Section 23 07 00 HVAC Insulation

Section 23 08 00 Commissioning of HVAC

Section 23 17 10 Variable Frequency Drives

Section 23 23 00 Refrigerant Piping

Section 23 31 13 Metal Ducts

Section 23 31 16 Nonmetal Ducts

Section 23 33 00 Air Duct Accessories

Section 23 34 23 HVAC Power Ventilators

Section 23 34 33 Air Curtains

Section 23 38 13 Commercial Kitchen Hoods

Section 23 72 00 Air to Air Energy Recovery Equipment

Section 23 74 13 Package Outdoor Central Station Air Handling Units

Section 23 74 33 Packaged Outdoor Heat and Cool Makeup Air Units

Section 23 81 50 Variable Refrigerant Flow Air Conditioners

Section 25 50 00 Direct Digital Control and Energy Management Systems

**CES-15 BUILDING ELECTRICAL**

- Section 03 15 14 Drilled Anchors
- Section 07 92 00 Sealants
- Section 10 05 00 Miscellaneous Specialties (Projector Support Panel)
- Section 26 05 00 Common Work Results for Electrical
- Section 26 05 26 Grounding
- Section 26 05 53 Electrical Identification
- Section 26 20 00 Low Voltage Electrical Transmission
- Section 26 50 00 Lighting Fixtures
- Section 27 00 00 Telecommunication Systems
- Section 27 05 28 Communications Infrastructure System
- Section 27 10 00 Structured Cabling System
- Section 27 20 10 Uninterruptible Power Supply
- Section 27 42 00 Classroom Audio-Visual Systems
- Section 27 53 13 Analog Synchronous Clocks
- Section 27 70 00 Intercom Clock Public Address System
- Section 27 80 00 Video Surveillance
- Section 28 31 00 Fire Alarm and Detection

CES-16 OFF SITE IMPROVEMENTS

- Section 32 84 00 Landscape Irrigation System (For Backflow Preventor and installation)

SUMMARY OF WORK FOR FOWLER MCKINLEY ELEMENTARY SCHOOL

PART 1 – GENERAL

As the Construction Manager (CM) for this project, David A Bush, Inc. (CM) reserves the right to publish Contractor Information Memos (CIM) prior to bid modifying the contract documents, as necessary. Please acknowledge all CIM on your proposal.

The following bidding instructions shall be adhered to by ALL BIDDERS and all bids shall include cost and time to incorporate all of the instructions noted below.

Please note this is a CM Multiple Prime project with all trades contracted to Clovis Unified School District as in a normal lump sum public works contract. All normal aspects of school construction will apply. All Prime Contracts shall be on the District's form which is included in the Contract Documents. Failure to adhere to these contract requirements and instructions may be grounds for rejection of proposal.

1. All bidders must submit proposals on the form provided in the contract documents.
2. All prime contractors will be responsible for paying the non-refundable fees associated with the use of the Architects project CAD files. Fees, forms, and limitations can be found in the project specifications, 01 33 00.
3. In all cases where the plans and specifications are unclear or conflicting it shall be the responsibility of those submitting a bid to EITHER provide a proposal which includes the greater scope or most expensive option or choice at the time of bid OR provide a timely pre-bid RFI that addresses the question in detail.
4. All salvaged items shall be relocated per the contract documents direction and in the absence of direction to the Owners main yard.
5. Any and all miscellaneous or incidental materials or work normally provided by industry standard shall be provided by the Prime Contractor for their Bid Package.
6. Each Prime Contractor shall be responsible for the Safe performance of all of their work and adhere to all safety requirements required by the contract documents and by law.
7. Proposals will be evaluated first on their conformance to the contract documents as a complete bid. Proposals may be rejected as non-responsive if determined to be inconsistent with the bid documents requirements.
8. All Prime Contractors shall provide insurance in a form and limits as required by the contract documents. Prime Contractors shall require their Subcontractors of every tier to carry insurance in a form and limits as required by the contract documents.
9. If a tentative project construction schedule is published prior to bid, it shall become part of the contract documents.
10. If a RFI LOG and/or responses are published prior to bid it shall become part of the contract documents.
11. If a soils report is published prior to bid it shall become part of the contract documents with limitations as stated therein.
12. If a SWPPP is published prior to bid it shall become part of the project and each Prime Contractor, whose work is affected by the implementation shall be responsible for that cost.
13. Each Prime Contractor shall be responsible for locating roof jacks for their scope of work.
14. Any repairs (if required, due to damage by a Prime Contractor) to existing finishes such as plaster, sheetrock, paint, or concrete must be done between natural breaks such as corner to corner or score line to score line.

15. All Prime Contractors shall provide a contact cell phone number to the Construction Manager for contact.
16. Fire watch, if required, shall be provided by the Electrical Bid Package Prime Contractor.

1.01 SUMMARY

A. General: Construction of BASE BID and Alternate portions of the work for this project, **Clovis Unified School District, Elementary School #35, Increment 1 and 2**. BASE BID and Alternate portions of the work is defined as all material, labor, equipment, and services necessary to do all work shown on the drawings and called for in the Specifications. The following specific trade requirements shall not be excluded from their proposal. Exclusion of any required scope specified shall be grounds for rejection. The scope of work for each trade shall remain as required by the Contract Documents. The specific list of scope herein shall be minimum and shall not limit the scope of that trade where required otherwise.

General Summary of the Project

The following information applies to all Bid Packages and shall be reviewed carefully for inclusion in each bid. Following are critical logistics related to the Project:

1. Hazardous Abatement is required if Hazardous Abatement Report is included in Contract Documents.
2. All work for the project will be performed during the hours of 7:00 a.m. to 3:30 p.m.
3. Submittals and material procurement shall begin immediately upon award or letter of intent from the CM.
4. Material procurement is critical and shall be diligently pursued to meet the contract schedule.
5. Prime Contractors shall review the project completely prior to bidding the work.
6. Coordination of work during the preconstruction period is equally as critical to resolving all issues prior to the start of work. Prime Contractor shall review the project, coordinate, and question any issues to allow resolution prior to the start of work.

In addition to the work noted in each package, the following will apply and become a part of the contract with each respective Prime Contractor.

Contract

All successful bidders will be required to enter into a Prime Contract Agreement with Clovis Unified School District.

Contractor Information Memos

All Addendums and Contractor Information Memo's issued during bidding will be incorporated into the Contract Documents by reference. Submission of proposal shall acknowledge that Prime Contractor has reviewed and accepts these documents as part of the Contract Documents.

Submittals and Material Procurement

1. Submittals and material procurement shall begin immediately upon award or letter of intent from the District.
2. Material procurement is critical and shall be diligently pursued to meet the contract schedule.
3. Substitutions must be noted in each bid with all costs for the specified product included in the bid and the substitution cost noted separately.

Alternates

Additive Alternates for the work are as follows. Please provide a base bid for the project then list all alternates:

1. As shown in the plans and specifications and clarified in any Addendum.

Crew Sizes

Given the tight schedule for the project, it will be necessary to have larger than normal crew sizes to meet the schedule. This is inclusive of all trades. All Prime Contractors shall review the schedule and confirm that they can crew the project accordingly prior to submitting a bid. Include with each bid minimum and maximum crew sizes projected for the project.

Schedule

1. Prime Contractors shall review the project and schedule completely prior to bidding the work.
2. Prime Contractor will be required to provide a schedule and crew sizing showing how the work will be accomplished within the given time frame.

State Agency Requirements

1. Work under each contract shall comply with the Storm Water Pollution Prevention Plan (SWPPP) standards and as set forth in the Contract Documents.
2. All work under each contract shall comply with San Joaquin Air Pollution Control District standards. Provide dust control for own work.
3. All work shall comply with OSHA requirements.

Access Plan

If an access and site logistics plan is included in the Contract Documents, access and restriction shall be enforced as a part of the project. Please advise of any questions regarding the plan prior to bid.

Site Logistics, Work and Coordination (applies to each Prime Contractor):

1. Fingerprinting will be required as called for in the contract documents when contact with students may occur.
2. Review and verify all existing conditions.
3. Power will be provided to within 100'-0" of all buildings. Each Prime will be required to provide all necessary temporary utility distribution from services provided.
4. All Prime Contractors shall attend coordination meetings and provide coordination drawings for underground and above ceiling work for work related to its Bid Package and scope for coordination of utilities, openings and other areas that require interface between trades. Coordinate all drawings with the drawings of this bid package. Note conflicts and provide potential solutions to the CM for Architect review. Coordination and drawing approval must occur prior to excavation and/or overhead work. Prime Contractors shall attend a pre-installation meeting prior to the start of its work onsite. All Prime contractors shall be available for pre-installation meetings of other Bid Packages for coordination of related work.
5. Only company vehicles are allowed onsite. Personal vehicles will not be allowed on-site except for in identified locations shown in contract documents. Prime Contractor to make provisions for transport or tool distribution needs.
6. Lunch and breaks shall be at designated areas. No other areas will be allowed.
7. Protect all work, new and existing from damage until acceptance by owner.

8. Storage areas will be confined to the areas designated by CM. Staging areas around the building shall be coordinated with the CM.
9. Provide written request for information through the CM for layout information from related Bid Packages for all rough-in, embedded items, openings, and block-outs, etc.
10. Request and review all associated shop drawings for coordination and layout purposes prior to installation of related materials.
11. Furnish and install all trims, escutcheons, and sealant for own work abutting other materials.
12. Furnish and install protection of all roofing for own work.
13. Furnish and install all physical layout for own work.
14. There will be one wash out area as designated by the CM. Each Prime Contractor will be responsible for removal from the site of all debris and spoils generated by their scope. All spoils are to be moved to the dedicated location on site.
15. Coordinate all work with mechanical, plumbing, fire sprinkler, and electrical Bid Packages for shut down of services as needed. 48-hour notice is required prior to all shut down activities.
16. Review as-builts and underground locator survey and pothole utilities prior to starting work.
17. All Bid Packages are responsible for cleaning of the street, due to tracking out excess dirt or mud, should the preventative measures set in place in accordance with the SWPPP and Dust Control Plans fail to stop all spoils from escaping the site.
18. Secure all ladders and lifts each evening.
19. Provide caution tape and/or barriers for open area work and traffic control.
20. Protect all work, new and existing, from damage until acceptance by owner.
21. Provide water and shade for own crews.
22. Furnish access to roof for own work. Ladders are to be removed and secured at the end of each shift.
23. Provide fall protection for own work in own Bid Package unless specifically noted otherwise in each Bid Package.
24. Provide caution tape and/or barriers for open area work and traffic control. In accordance with all applicable Federal, State, Local, and District standards.
25. Provide layout and coordinate all demolition and ceiling removal required for your scope of work.
26. Coordinate extent of all demolition with related Prime Contractors prior to starting work.
27. Patch Fireproofing at all utilities for own work.
28. Protect all countertops as required by each trade.
29. Furnish and install fire stop for all required through penetrations for own work.
30. Core penetrations through walls as required for installation of own work and patch as noted on the plans.
31. Furnish and install all access doors necessary to provide access to work included in your respective scope of work.
32. Any deviation from the contract documents resulting in additional design will be at the cost of the Prime Contractor responsible for the additional design, as well as any associated cost for delay of schedule.
33. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
34. Monthly payment applications will not be approved if as-builts are not up to date.
35. Adequate manpower is required by Prime Contractor to maintain the posted construction schedule.
36. Prime Contractor consents to execute District's Prime Contractor Agreement as provided in the Contract documents, without modification.

37. Furnish daily cleanup of all debris generated by your respective scope of work. Prime Contractor must abide by the Waste Management Specification.
38. Water Hydrants are located in development around site. Prime Contractors are responsible for own water meters for construction water needs throughout the project. Methods of delivery and use of water for the work of each trade are the responsibility of the Prime contractor.
39. Coordinate all work to provide access to buildings for other trades as scheduled. Provide a breakout schedule of where and when work will be performed that has been coordinated with other activities in the schedule for other trades.
40. Furnish and install own floor protection (i.e., tarps, plastic, plywood, etc.)
41. Furnish and install covers at all holes in elevated decks created by your work in which debris may fall to the level below, per CAL OSHA regulations.
42. All construction equipment shall meet the requirements of the SJVAPCD ISR report (Air Impact Assessment – AIA) under the Construction Clean Fleet Summary. This shall include reporting requirement as defined within the Monitoring and Reporting Schedule within the ISR for this project.

General Items to be Provided by the CM

1. Toilet and hand wash facilities.
2. Temporary site fencing.

Drawings and Specifications

Drawings and general provisions of Contract, including General and Supplementary Conditions, and Division 00 Bidding and Contract Requirements, and Division 01 General Requirements, apply to the work of each Bid Package. The work under each Bid Package shall include the furnishing and installation of all material, equipment, procedures, methods, items, and labor as required to complete the work described in each Bid Package. The work shall be completed as shown on the Drawings and Specified in any and all applicable Specification Sections.

Completion of Work

The work of each Bid Package must be completed according to the construction schedule included with the Contract Documents.

Note: The term “provide” means to “furnish and install, complete and ready for the intended use.”

The work includes, but is not limited to, the items numerically listed in each Bid Package and in accordance with the applicable Drawings and Specification Section(s). Provide all work specified within each Bid Package and applicable Specification Section(s) with the exception of items listed as “work by others.”

While the ways, means, and methods will be the responsibility of the Prime Contractor, the items in the Bid Package Summary of Work are presented for construction clarifications.

General Items – All Prime Contractors

Furnish and install all work specifically required throughout the project documents to complete the work of this Prime Contractor that specifically includes, but is not limited to the following:

Specification Sections

Division 01

Division 00

Refer to additional related specifications sections for work specifically included in this bid package noted below.

1.03 WORK UNDER OTHER CONTRACTS:**A. General Requirements:**

1. Work under separate contracts may occur throughout the duration of the project. The work being installed under separate contracts will occur adjacent to the Contract project site including offsite work.
2. Prime Contractor shall be responsible for coordinating access to and from the site throughout the duration of the project. Access points to and from the site may vary, based upon timing and duration of separate contracts.
3. Prime Contractor shall cooperate and coordinate all work under this Contract with all work under separate contracts.
4. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
5. Prior to the installation of the Work, coordinate the work installed or to be installed by separate contracts relative to own work.

B. Separate Contracts by Owner:

1. Coordinate as awarded.

C. Separate Contracts by Others:

1. Adjacent Properties: Residential.

D. Phasing:

1. Phasing is projected to be as shown on the Bid Schedule. However, the owner reserves the right to revise start times pending the review and award of bids.

1.04 BID PACKAGE'S DUTIES:**A. Except as specifically noted, provide, and pay for:**

1. Labor, material, and equipment. All bid packages will be required to provide full time, qualified, knowledgeable supervision for their self-performed, and sub contracted labor. See General Conditions for Contractors specification 00 07 00, and specifics of Article 4 in this reference.
2. Tools, construction equipment and machinery
3. Other facilities and services necessary for proper execution and completion of Work.
4. Water: See Specification Section – TEMPORARY FACILITIES AND CONTROLS.

B. Pay legally required sales, consumer and use taxes.**C. Give required notices.****D. Comply with codes, ordinances, rules, regulations, orders, and other legal requirements of public authorities which bear on performance of Work.**

1. Prime Contractor shall certify in writing that no materials containing Asbestos are incorporated in the work, in accordance with the Asbestos Hazard Emergency Regulations Act.

E. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.

1. Appropriate modifications to Contract Documents will adjust necessary changes.
 2. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
- F. Enforce strict discipline and good order among employees. Do not employ on Work:
1. Unfit persons.
 2. Persons not skilled in assigned task.
- G. Provide material, equipment, and manpower to meet Construction Schedule provided in Contract Documents.
- H. All Prime Contractors will be responsible for paying the non-refundable fees associated with the use of the Architects project CAD files. Fees, forms, and limitations can be found in the project specifications, 01 33 00.

1.05 BID PACKAGE USE OF PREMISES:

- A. Confine operations at sites to areas permitted by:
1. Laws.
 2. Ordinances.
 3. Permits.
 4. Contract Documents.
- B. Do not unreasonably encumber site with materials or equipment.
- C. Do not load structure with weight that will endanger structure.
- D. Assume full responsibility for protection and safekeeping of Prime Contractor's and Owner's material stored on premises and keep the site and building secure at all times.
- E. Obtain and pay for use of additional storage or Work areas needed for operations.
- F. Limit use of site for work and storage.

End of Section

BID PACKAGES CES-01, CES-02, CES-03, AND CES-04 PREVIOUSLY BID IN INCREMENT #1

CES-01 – EARTHWORK, SITE CONCRETE & CMU

Earthwork, Grading, Paving, Soil Treatment, Site Concrete, Rebar, Misc. Specialties (Stair Stripping), Flag Pole, CMU, Fencing, Playground Equipment, Site Furnishings.

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Refer to additional related specifications sections for work specifically included in this bid package noted below.

Division 00

Division 01

Section 01 57 23 Storm Water Pollution Prevention Plan

Section 03 11 01 Concrete Formwork

Section 03 15 14 Drilled Anchors

Section 03 20 00 Reinforcement

Section 03 30 00 Cast-In-Place Concrete

Section 04 22 00 Concrete Masonry Units (CMU)

Section 07 14 16 Fluid-Applied Waterproofing

Section 07 92 00 Sealants

Section 08 70 00 Hardware

Section 08 70 00.01 Hardware schedule

Section 10 05 00 Miscellaneous Specialties (Stair Striping)

Section 10 14 53 Road and Parking Signage

Section 10 75 00 Flagpoles

Section 11 68 13 Play Equipment

Section 12 93 13 Bicycle Racks

Section 31 00 00 Offsite Development

Section 31 10 00 Site Clearing

Section 31 11 00 Clearing and Demolition

Section 31 20 00 Earthwork

Section 31 22 22 Soil Materials

Section 31 23 33 Trench Excavation and Backfill

Section 32 12 00 Pavement

Section 32 12 16 Soil Sterilization (Weed Control)

Section 32 18 16 Playground Surfacing

Section 32 19 19 Ornamental Metal

Section 32 31 13 Chain Link

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.

2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. Provide daily cleanup to keep site clean and orderly.
18. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
19. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
20. This contract is to provide temporary power for own work until such time as building temporary power is established.

Coordination with Other Trades

1. This Prime Contractor will be responsible for the initial setup of SWPPP BMP's, as shown in the SWPPP plan drawings, including but not limited to, silt fencing, track outs and fiber rolls surrounding existing drain inlets.
2. Allow for two additional mobilizations for movement or relocation of track outs as required during construction.
3. Hold all turf areas down 2" at concrete walks and mow strips for turf, 1" at planters.
4. Location for trades to stockpile their spoils will be established with CM, and this CES-01 Prime Contractor.
5. Any survey requests require a minimum of 48-hour notice.
6. Coordinate dimensions with other related Prime Contractors of all equipment and housekeeping pads. Pad sizes shall be provided by other Prime Contractors and physically laid out and installed by this contract.
7. Coordinate installation of all sleeves for work passing through concrete work with respective Prime Contractors prior to excavation.
8. Electrical and site utility Prime Contractors shall furnish and install all concrete required for installation of thrust blocks, manholes, vaults, boxes, underground structures for work related to their contract. This contract shall furnish and install all other concrete shown including aprons mow strips and collars.
9. Install and coordinate block-outs at the site concrete to facilitate installation of fine grading by Earthwork Prime contractor and to protect concrete until fine grading is complete. Complete site concrete block-outs once fine grading is complete. Backfill and fine grade once block-outs have been poured.
10. Install and physically layout all embedded items (as provided by other Prime Contractors), holes, sleeves and block outs in concrete as shown in the contract documents, related shop drawings or provided written layout. Coordinate locations with related Prime Contractors prior to installation.
11. Provide layout drawings for all site concrete joints for approval prior to installation of site concrete.
12. Review as-builts prior to starting work.

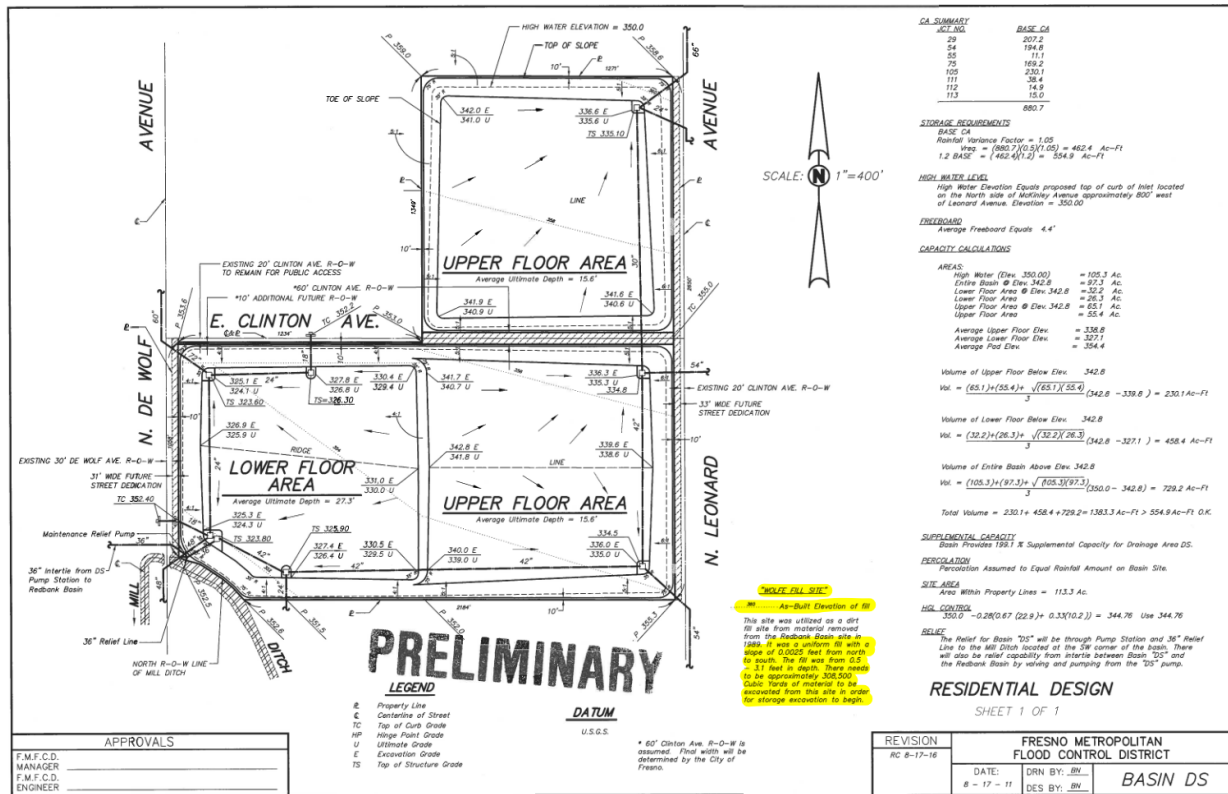
Furnish and Install Items

DEMOLITION – SITE CLEARING

1. Provide all cut, demolition, removal, and off-haul of all items noted to be removed as shown on contract documents.
2. For site clearing and demolition follow recommendations as outlined within the soils report prepared by RMA Geoscience included in the project documents, in association with the contract documents.
3. Investigate and remove the existing 3" steel post that stands approx. 100 feet south of Weldon, and 300 feet east of Fowler. It is believed to be an abandoned fence post.
4. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.

EARTHWORK AND GRADING

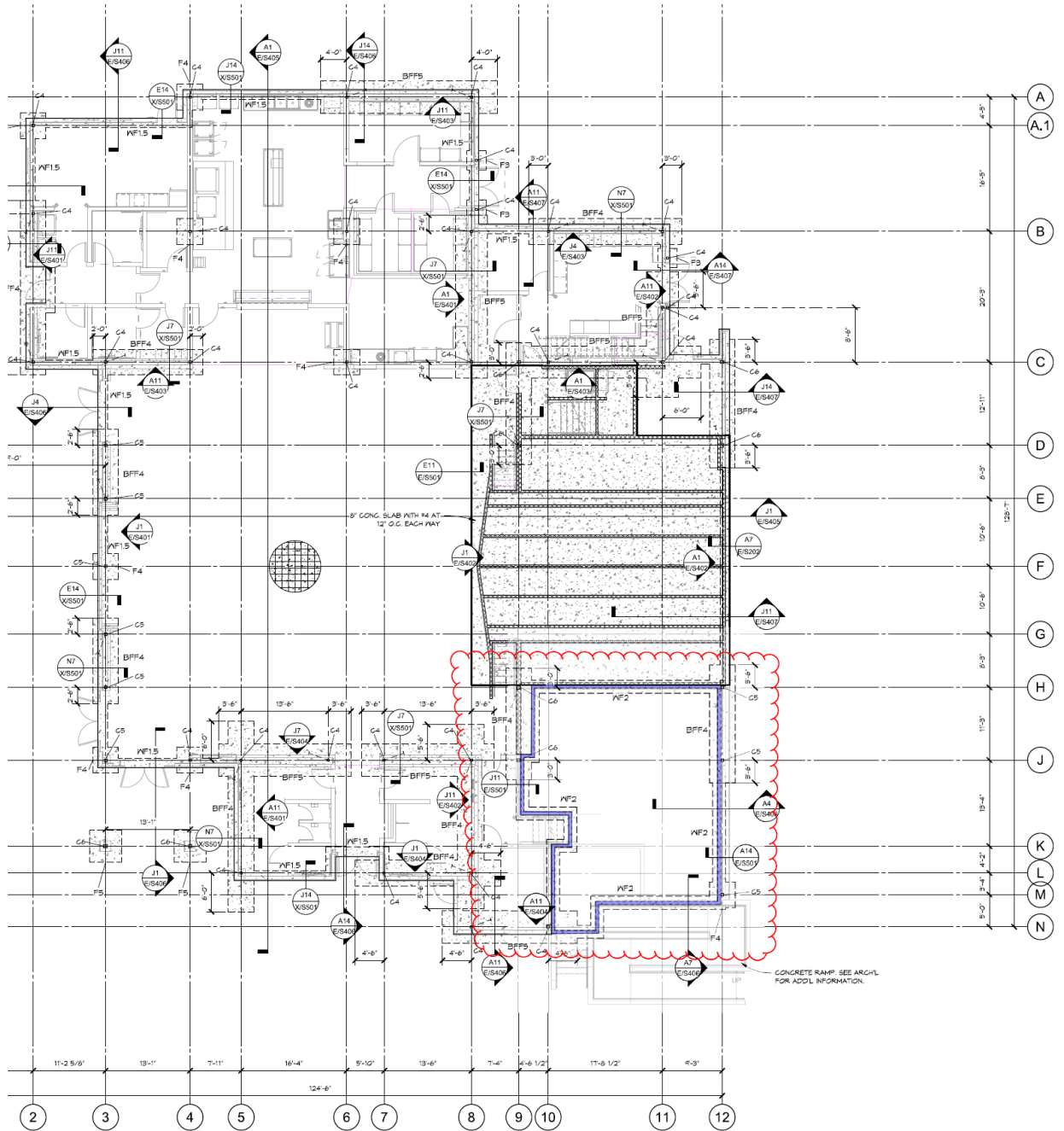
1. Grade all earthwork to within +/-0.05' from a planned elevation.
2. Furnish and install all cut and fill necessary to perform work. Sand to be furnished and installed by the concrete bid package at the buildings only. All other materials shall be provided by this bid package.
3. Clarification: This will be an "Import" project. This bid package will provide and incorporate approximately 35,000 cu yds of soil to the site. The material will be obtained from the CUSD Terry Bradly Ed Center ponding basin, located between DeWolf and Leonard Ave, at East Clinton Ave, where the soils has been previously tested for toxicity and suitability. Provide a per cubic yard Schedule of Values for these import soils, should additional soils, or a reduction of soils be required, other than the estimated 35,000 cu yds. Provide for All loading, hauling, street cleaning, dust controls, or traffic managements required will be provided under this CES-01 Earthwork and Grading bid package. Prior to starting this scope, there will be a required coordination meeting with CES-01 contractor, CUSD, RMA, and Bush Construction to discuss plan, routing, and execution.
4. All areas of planters, or turf are to have a minimum top layer of 1' from existing native soil.



5. Furnish and install all grading of the site on separate move-ins (as scheduled by the CM) to accommodate the site concrete and mow strips installation. Coordinate backfill and final fine grading activities to eliminate damage to new site concrete. Consult, and coordinate all elevations with the Landscape bid package where applicable.
6. Furnish and install over excavations and building pads.
7. Specific to building E, from grid lines H to N, and 9 to 12, the slab is 3'-7" higher than the overall building slab. The earthwork Prime Contractor will build this up as required, then cut the material back to allow adequate work space for the structural concrete bid package to install footings, pour

footings, build formwork, pour walls, strip, clean, and install fluid applied waterproofing. Once cured, the earthwork Prime Contractor will return to backfill and compact up against new walls and fine grade in preparation for elevated slab pour. See plan detail at end of this section for additional reference.

8. Furnish and install temporary ag base roadway on site for construction use, including base at laydown area. After the threat of rain, towards the end of the project, the base will need to be scraped off, final grading established per plans, and the base is to be hauled off under this contract bid package. (See temporary access and yard plan for extent) CLARIFICATION: The depth of the ag base may vary but must be thick enough to hold up during the rains and site traffic. If repairs need to be made to maintain an adequate roadway, it will be performed under this bid package. Spray on dust control/soil stabilizer will also be a suitable alternative for the roadways but may require more frequent maintenance and product applications.
9. Maintain and protect building pads to within tolerance, elevation, moisture, weed free and compaction until accepted/received by the concrete contractor as noted in the schedule.
10. Furnish and install all soil Sterilization as per the contract documents.
11. Furnish and install backfill of mow strips, walks, curb, curb & gutter, planter, and turf areas.
12. Furnish, install, and maintain traffic control for work included in this bid package.
13. Furnish and install engineered shoring at all locations as required.
14. For excavation, backfill and compaction efforts, follow recommendations as outlined within the soils report prepared by RMA Geoscience included in the project documents, in association with the contract documents.
15. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.
16. Furnish and install all SWPPP items as outlined in the SWPPP plan and in spec section 01 50 00. CLARIFICATION: SWPPP installation is to be at and within the perimeter of the project site. All "Off Site" SWPPP to and along the west side of Fowler, and south of McKinley will be bid separately.
17. This package is responsible for setup and implementation of SWPPP plan. This package is also responsible for monitoring, documentation, reporting, teardown, and final cleanup of SWPPP items at completion of the project.



PAVING

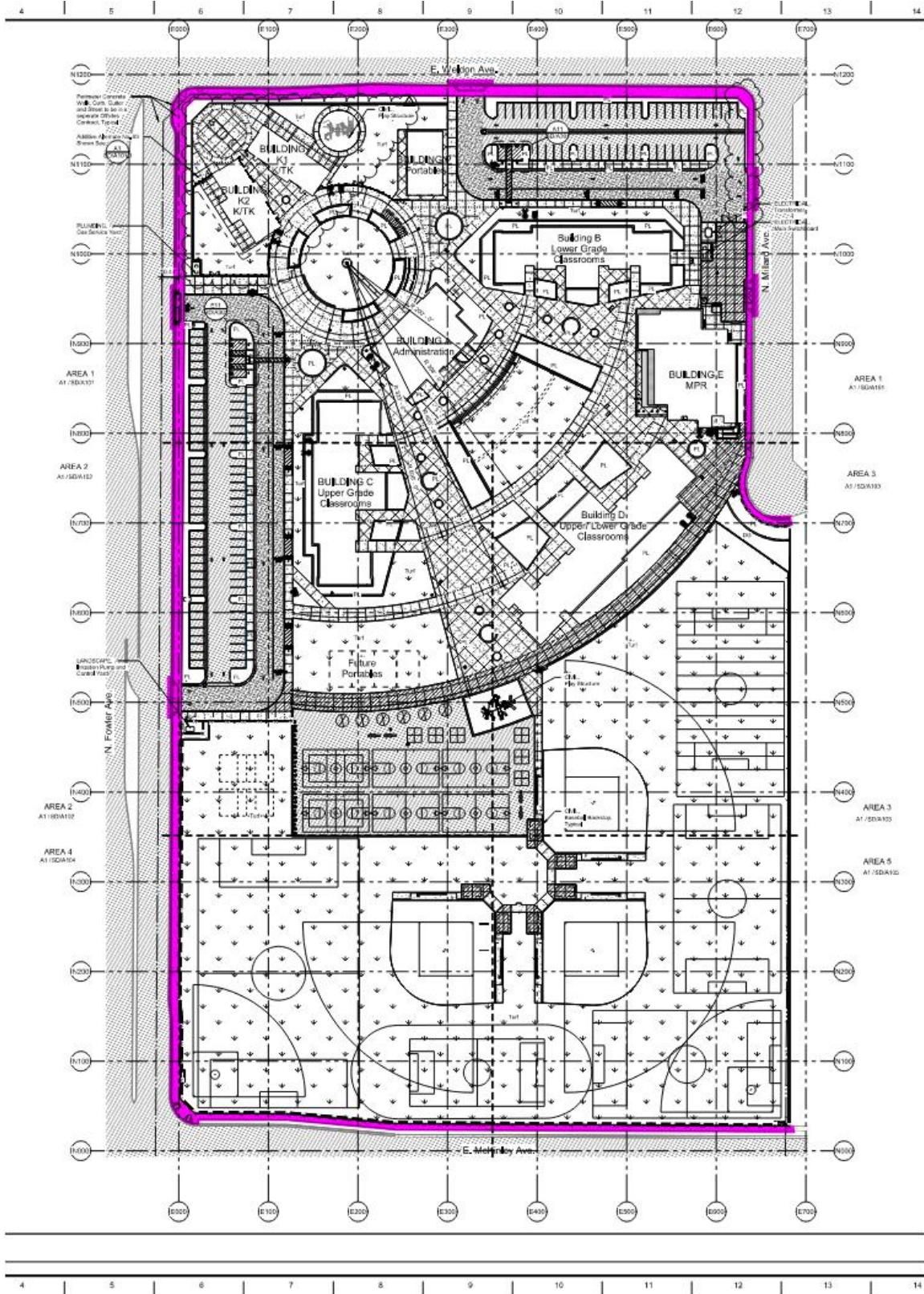
1. Furnish and install all On Site paving base rock as identified on plans, including but not limited to under parking areas, basketball courts and drives. CLARIFICATION: All grading, paving associated with the Off-Site improvements will be furnished and installed with that bid package.
2. Furnish and install all compacted base rock as identified in contract documents.
3. Furnish and install parking bumpers and wheel stops where shown.
4. Furnish and install parking striping and/or accessible symbols as shown on contract documents.
5. Furnish and install all parking and road signage as indicated in contract documents, including concrete at posts where indicated.

6. Furnish and install all asphalt paving and patch backs.
7. All parking areas are to be scheduled for two separate mobilizations, as the first 1 ½" lift will be placed, and the areas utilized for parking and staging during construction. At a later scheduled time in the project, this package will clean, prep, install tack, remobilize, and place the final finish section of the parking lots and entrance access points.
8. Furnish and install all slurry seal.
9. Furnish and install all play court striping as indicated in the contract documents.
10. Furnish and install pressure treated/redwood 2x4 header form at asphalt edge where unsupported unless noted otherwise.
11. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.

SITE CONCRETE

1. Furnish and install all site concrete, including but not limited to, flatwork, curbs, curb and gutter, planter curbs, planter walls, gutters, valley gutters, mow strips, seat walls, all CMU footings (Site & Maintenance Yard), and amphitheater walls. Clarification of scope limits of work boundaries. See attached sketch at the end of this section.
2. Furnish and install all reinforcing as required for all site concrete per contract documents. Including but not limited to CMU footings, seat walls, fire lane, etc.
3. Furnish and install rebar caps per OSHA for all rebar associated with this contract's scope of work, installed by the reinforcement contractor. Furnish and install concrete stake caps associated with this contract's scope of work. Maintaining of Caps is the responsibility of this Prime Contractor. Safety walks at end of day required to ensure caps are in place, and any missing caps replaced.
4. Furnish any and all excavation necessary for work included in this contract.
5. Furnish and install all mow strips in site and around buildings, including at chain link, and ornamental fencing.
6. Furnish and install all sealants at all site concrete. This includes all sealant where site concrete abuts all buildings and structural concrete or CMU.
7. Furnish and install amphitheater steps, with reinforcing and stair nosing. (N1/SD/A302 & P11/SD/A302)
8. Install bollards (a.k.a. drinking fountain rails - furnished by others) in concrete footing. (J7/X/A531)
9. Furnish and install all parking and walkway accessible concrete ramps per contract documents.
10. Furnish and install all truncated domes.
11. Furnish and install all play access and play access perimeter curbs (B/SD/X107, C/SD/X107)
12. Install steel anchor plates, steel keeper plates and welded straps at thickened concrete walk at cane bolt locations. (N13/SD/A402) – Steel anchor plates, keeper plates and welded straps to be provided by fencing contractor F.O.B.
13. Install Flagpole in concrete base with reinforcing – see detail (A1/SD/A301)
14. Furnish and Install Concrete Monument Sign with reinforcing, V groove, chamfer, etc. Refer to details.
15. Furnish and install footings and sleeves/inserts for volleyball, tetherball, and basketball posts.
16. Furnish and install footings and sleeves/inserts for bicycle racks and any hand railing. Rails and racks to be supplied by others. Note: Bike racks provided by this bid package, Bike Lockers are owner furnished, owner installed.
17. Furnish and install fibrous expansion joint, and sealant where required.
18. Install three sets of handrails at amphitheater.
19. Furnish and install concrete for all site housekeeping pads. Including but not limited to,

- transformer, and electrical pads. Coordinate dimensions and layout with Prime Contractors.
20. Furnish and install concrete for all irrigation equipment/devices. Including, but not limited to, backflow pad, and booster pump pad. Coordinate dimensions and layout with site plumber and site landscape Prime Contractors.
 21. Physically layout and install all block outs, openings, backing, etc. from written layout provided by other Prime Contractors for installation of their work.
 22. This contract is to provide temporary power for own work until such time as building temporary power is established.
 23. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.
 24. Install steel angles, and vent grating at portables, as supplied by Struct Steel bid package. See P/a101
 25. CLARIFICATION: The perimeter sidewalks, including all drive access approaches are to be furnished and installed by the "Off-Site" bid package as highlighted site sketch below. Sidewalks will pour to the CMU, and chain link fence mow strip poured within this CES-01 bid package.
 26. Furnish and install removable bollards for vehicular access per plans.



FENCING

1. Furnish and install all chain link fences, gates, and hardware, including those embedded or attached to CMU. Include new padlocks as noted in site drawings.
2. Furnish and install all backstop fencing including any horizontal backboards.
3. Furnish and install all ornamental iron fence, gates, and hardware, including those embedded or attached to CMU.
4. Provide Steel Anchor Plate, Steel Welded Straps and Steel Keeper plate F.O.B. jobsite (N13/SD/A402) for placement with site concrete.
5. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.

CONCRETE MASONRY UNIT (CMU)

1. Provide and install all CMU block walls as identified in contract documents.
2. Furnish and install all rebar associated and shown to be installed in CMU, with exception of the rebar which is to be installed with the CMU footings.
3. Provide and install all smooth dowels, or other reinforcement and expansion components associated with CMU installation.
4. Coordinate and confirm reinforcement layout in footings with concrete contractor.
5. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.

PLAY EQUIPMENT AND SITE FURNISHINGS

1. Bike lockers are Owner Furnished, Owner Installed.
2. Provide and install all playfield and court equipment as shown in contract documents. Including, but not limited to; basketball backboards (single & double), volleyball posts, volleyball nets, tether balls and tetherball posts, dugout benches etc. Furnish all sleeves as required for proper installation of equipment.
3. Provide and install EPDM wearing surface and SBR Rubber over concrete at play structure basins.
4. Provide and install loose engineered wood fiber at play structure basins.
5. Furnish and install bicycle racks per contract documents (six total).
6. Furnish and install flagpole per detail A1/SD/A301.
7. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.
8. Furnish and install all drainage fabric, felt, and drainage matrix material, to storm drain pipe stub, that will be coordinated and provided by the site utilities contractor.

FOB Items**Installation of FOB Items**

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

1. Install all items embedded in concrete provided FOB Jobsite by other Prime Contractors from written layout provided by those Prime Contractors.
2. Install all bolt templates provided by other trades.
3. Install angle iron embeds at rolling gates.

End of Bid Package

BID PACKAGES CES-01, CES-02, CES-03, AND CES-04 PREVIOUSLY BID IN INCREMENT #1

CES-02 SITE UTILITIES PLUMBING: DOMESTIC, SANITARY, STORM, FIRE, & GAS

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00

Division 01

Section 03 30 00 Cast in place Concrete (As applicable to storm, sewer, manholes, thrust blocks, etc.)

Section 21 05 23 General Duty Valves for Fire Protection

Section 21 05 53 Identification for Fire Protection

Section 21 11 00 Facility Fire Suppression Water Service Piping

Section 21 11 19 Fire Department Connections

Section 22 00 00 General Plumbing Provisions (Gas, Water, Fire Water, Storm, Sewer)

Section 22 00 50 Plumbing (Gas, Water, Fire Water, Storm, Sewer)

Section 23 01 00 General Mechanical Provisions (As Applicable)

Section 31 23 33 Trench Excavation and Backfill

Section 33 12 00 Water Utilities

Section 33 30 00 Site Sewer Systems

Section 33 40 00 Storm Drainage

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.

10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. Provide daily cleanup to keep site clean and orderly.
18. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
19. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
20. This contract is to provide temporary power for own work until such time as building temporary power is established.

Coordination with Other Trades

1. Provide coordination drawings for underground work related to this bid package. Coordinate all drawings (Plumbing, Electrical, site, Off Site, and Landscape) with the drawings of this bid package. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to excavation and/or installation of the work. Attend all coordination meetings required to coordinate all underground.
2. Coordinate routing of underground utilities miss foundations.
3. Coordinate alignment of all utilities between plumbing and civil drawings prior to excavation.
4. All underground utilities (Gas/DCW/Fire) are to be a minimum of 3' below finish grade.

Furnish and Install Items

1. Furnish and install all site utilities and fixtures complete. Water, Fire, Sewer, Storm.
2. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.

3. Provide all backfill of excavations to original subgrade for work included in this bid package.
4. Stockpile extra spoils from excavations in location to be determined by CM.
5. Furnish and install all attachment of all equipment related to this scope of work.
6. Furnish and install all excavation for own work.
7. Furnish and install all concrete required for installation of thrust blocks, manholes, vaults, boxes, underground structures, mow strips and collars for work related to this bid package.
8. Furnish and install asphalt patch back related to own work as required.
9. Adjust all utility boxes to finish grade.
10. Clean and disinfect all site piping required for this project to subsequent point of connection.
11. Furnish and install all piping required to accommodate new work.
12. Furnish, install, and maintain traffic control for work included in this package.
13. Furnish and install all site fire water, sewer systems, storm systems, domestic water & gas.
14. Furnish and install all dry wells, drainage, water and drinking fountains. Clarification: see G/SD/X102 for dry well at ball fields.
15. Furnish and install all site trench drains and piping (If shown)
16. Furnish and install all site Fire, all fire line piping, and stub in to building per plans to above finished floor with a capped flanged fitting, as the POC for the fire sprinkler contractor. Furnish and install all site check valves, Christy vaults, PIV's, FDC's, Hydrants, Backflow Preventors, and Bollards per plans at fire equipment per plans. CLARIFICATION: See note # 6 on site plans, and J7/SD/A302
17. Furnish and install all site domestic water complete from POC at back flow preventors, check valves, SOV's, etc. to within 5' of buildings.
18. F&I complete storm to within 5'.
19. F&I complete gas to within 5' of where pressure regulators are shown for each building.

FOB Items

1. None

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

1. Not Applicable.

End of Bid package

BID PACKAGES CES-01, CES-02, CES-03, AND CES-04 PREVIOUSLY BID IN INCREMENT #1

CES-03 SITE ELECTRICAL & LOW VOLTAGE

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Refer to additional related specifications sections for work specifically included in this bid package noted below.

Division 00

Division 01

Section 03 15 14 Drilled Anchors

Section 03 30 00 Cast in place Concrete (As applicable to slurry, and light pole bases, and grouting)

Section 26 05 00 Common Work Results for Electrical

Section 26 05 26 Grounding

Section 26 05 53 Electrical Identification

Section 26 20 00 Low Voltage Electrical Transmission

Section 27 00 00 Telecommunication Systems

Section 27 05 28 Communications Infrastructure System

Section 27 10 00 Structured Cabling System

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.

11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. Provide daily cleanup to keep site clean and orderly.
18. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
19. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
20. This contract is to provide temporary power for own work until such time as building temporary power is established.

Coordination with Other Trades

1. Provide coordination drawings for underground work for work related to this bid package. Coordination must occur prior to excavation and/or installation of the work. Attend all coordination meetings required to coordinate all underground.
2. Coordinate all work to provide access to buildings for other trades as scheduled. Provide an underground utility schedule of where and when piping operations will be performed.
3. Coordinate location of UG utilities to be out of angle of repose of foundations.
4. Poured in place housekeeping and equipment pads to be supplied by concrete team. Precast housekeeping and equipment pads to be supplied and installed by this package
5. Review as-builts and pothole existing utilities prior to starting work.
6. Verify continuity of electrical and low voltage conduits for work in this contract.
7. Provide shop drawings for equipment layout in electrical rooms & yards to confirm that dimensions are adequate prior to rough in and pouring of footings and curbs.
8. Coordinate all underground utilities to miss foundation.
9. Provide Safe off of all electrical equipment as required for trade work.
10. Provide an underground utility schedule of where and when piping operations will be Installed.

Furnish and Install Items

CLARIFICATION:

Several pieces of equipment were added in the electrical drawing revisions that were included in (Increment #1 Addendum # 3), and are not to be furnished or installed within this bid package. The conduit, Christy's/ underground pathways for these items are to be included in this bid package. Mini Substation, PV disconnect, Transformer, IDF, and back stop PA will all be provided and installed with the

Inc 2 electrical bid package, with the exception of the Owner Supplied Switchgear, that will be installed under this CES-03 package, and previously addressed.

1. Furnish and install all site utilities conduit and infrastructure complete for all Power, Data, Fire Alarm, Security, Irrigation line voltage (pumps/time clocks), and EMS. See SD/M101 for EMS site conduit clarification. All conduits are to be brought to within 10' of the buildings. All stopping points are to be flagged, swing tied if possible, and recorded on the As-Builts for Increment 2 continuation. Conduits are to stop within 5' of pumps and time clocks if specific layout cannot be determined during the time of installation., and 5' for fire sprinkler components where alarm is required. CLARIFICATION: This includes power conduit for "Coach control switches", as described in the Landscape plans. Building electrical contractor will provide and install the housing, wiring, receptacle.
2. Site lighting conduit is to stop approximately 5' from the flagpole, all light pole bases, and first light of radiused (T-2's) at the concrete monument wall. Clarifications: 1. The in-ground T-2 lighting was removed from the site at the flag pole area. Disregard reference. 2. (Increment #1 Addendum 3) added lights at the CMU service yard. Install conduits to the footing alignment where each light is shown. Inc 2 electrician will coordinate and install the continuation conduit up in CMU.
3. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.
4. Furnish and install physical layouts for all deepened foundations at utilities prior to excavation.
5. All excavation spoils to be deposited at one location on site as determined by CM.
6. Furnish and install all sleeves for work passing through masonry and concrete work. Coordinate with respective bid packages.
7. Provide all backfill of excavations to original subgrade for work included in this bid package.
8. Furnish and install fire stopping and fire caulking of own penetrations for own work.
9. Furnish and install pull strings/rope in all empty or future conduits.
10. Furnish and install all concrete required for installation of vaults, boxes, underground structures for work related to this bid package.
11. Furnish and install all site conduit required for Owner furnished equipment hook up as required.
12. Furnish and install all rough-in for all equipment of other bid packages as required by the related specification sections and drawings. Connect and or stub as described.
13. Furnish and install all conduit and sleeves for future low voltage and telecommunications wiring. Install fire stopping as required.
14. Furnish and install all attachment of all equipment related to this scope of work.
15. Furnish and install all supports and bracing required for electrical work.
16. Furnish and install all identification and lettering called for in the contract documents related to the work of this bid package.
17. Adjust all electrical and low voltage boxes in new landscape and concrete areas as needed.
18. Furnish and install all physical layout for your own work.
19. Furnish and install all site conduits, including vaults and boxes for all electrical and low voltage systems.
20. Provide all power/Breaker testing for own work.
21. Chase and prove all electrical site pathways as required to complete work.

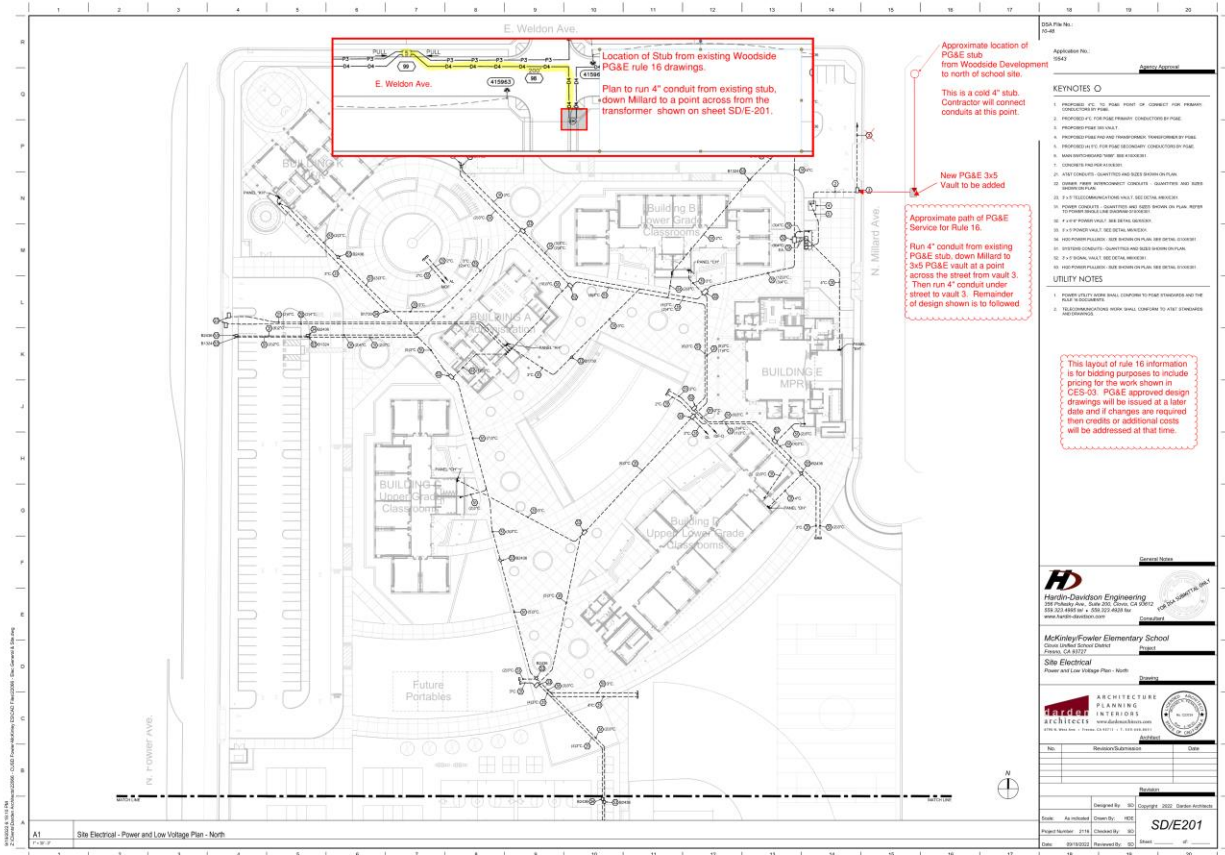
22. Furnish and install electrical equipment, conduit, pre cast pads required for the utility provider (Rule 16 and similar for site power connections). Switchgear will be Owner Furnished, Contractor Installed.
23. Furnish and install all site rough-in conduit for all equipment of other trade as required by the related specification sections and drawings. Connect and or stub as described.
24. Furnish and install all site lighting conduits including vaults / boxes. Bring all conduits to within 5' of light pole locations and buildings. Cap and flag each end, (swing tie if possible) for subsequent connection by the building electrical contractor. Coordinate the location of the conduit at the building end to the point of entry established by the building electrician.
25. Furnish and install disconnects and associated supports as applicable to increment 1.
26. Furnish and install sealant system as required to provide watertight condition at devices mounted on masonry units.
27. Furnish and install PG&E, ATT, and Comcast conduit for onsite as shown on the drawings.
28. Furnish and install all colored concrete cap over all required duct banks.
29. Furnish and install conduits for all landscape equipment such as controllers, pumps, etc. as required by the landscape drawings.
30. Furnish and install all backfill of excavations to original subgrade for work included in this contract.
31. Provide Dust Control for own work.
32. This contract will adhere to guidelines for all work per the requirements of the Dust Control Plan and SWPPP Plan.
33. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this Project.
34. Electrical Prime Contractor responsible for any and all patch back and finishing for any trenching made in roadways, for work performed under this bid package.
35. All excavation spoils to be deposited at one location on site as determined by CM.
36. Furnish and install all sleeves for work passing through masonry and concrete work. Coordinate with respective bid packages.
37. Provide all backfill of excavations to original subgrade for work included in this bid package.
38. Furnish and install drilling of holes for work performed in this bid package.
39. Furnish and install pull strings/rope in all empty or future conduits.
40. Furnish and install all concrete required for installation of vaults, boxes, underground structures for work related to this bid package.
41. Furnish and install all conduit and sleeves for future low voltage and telecommunications wiring. Install fire stopping as required.
42. Furnish and install all attachment of all equipment related to this scope of work.
43. Furnish and install all identification and lettering called for in the contract documents related to the work of this bid package.
44. Furnish and install all physical layout for your own work. Same as 18
45. This contract shall be responsible for holes at metal deck for installation of hanger wires for own work.

For Rule 16, and associated PG&E work.

1. This contract will provide all PG&E electrical requirements as outlined for connection to/for PG&E Rule 16 work in conjunction with the project drawings. This Prime Contractor will run all conduits,

proof, and mandrel all conduits for the new PG&E feeders from the POC shown in the attached marked up site plan for reference, then to the transformer, then to the Switchgear.

2. Coordinate all meetings with PG&E, obtain permits, and provide all services required to facilitate and install the main power distribution on to the site.
3. Furnish and install all work relating to PG&E rule drawings, off-site plans of existing conduit pathway, to connect to new conduit and vault on site, and leading to the switchgear.
4. Furnish and install all excavations, and patch back to road crossing. CLARIFICATION: Millard street is not currently paved, nor have the sidewalks been installed on either side. The curbs and gutters are already installed. If damaged during installation, these repairs would also be included in this package responsibility.



FOB Items

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

BID PACKAGES CES-01, CES-02, CES-03, AND CES-04 PREVIOUSLY BID IN INCREMENT #1

CES-04 LANDSCAPE

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00

Division 01

Section 03 15 14 Drilled Anchors

Section 32 84 00 Landscape Irrigation System

Section 32 90 00 Landscape Construction

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.

14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. Provide daily cleanup to keep site clean and orderly.
18. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
19. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
20. This contract is to provide temporary power for own work until such time as building temporary power is established.

Coordination with Other Trades

1. Coordinate sleeve installations with site concrete.
2. Coordinate pump location, house pad, layout, and elevation with electrical, plumbing, and concrete packages.
3. Coordinate all valve boxes, quick connects, with concrete, planters, and elevations.

Furnish and Install Items

1. Furnish and install all irrigation and landscaping complete. Connect to existing power, wiring and controls where required at existing landscape areas.
2. Make provisions to obtain water for own work. Dust control, excavations, backfills, compactions, etc. There are fire hydrants on two sides of the project. Make necessary arrangements with the city of Fresno to acquire a meter and pay for own water usages until such time that the site water has been installed and approved for site usage.
3. Provide and install new irrigation, controls, wiring, pumps, premanufactured concrete pads, etc. for own work. Main power supply and connection to pumps or equipment (Line voltage), will be supplied by the electrical Prime Contractor.
4. Furnish and install all thrust blocks for own work.
5. Furnish and install grading and top soil.
6. Provide water test of turf and planter areas prior to planting to confirm proper drainage and coverage.
7. Furnish and install all irrigation sleeves.
8. Furnish and install backfill all planters.
9. Furnish and install all fine grading of planter areas prior to planting.
10. Furnish and install all irrigation pipe system from POC at main backflow preventor, installed by the site plumbing Prime Contractor per spec.
11. Furnish and install irrigation pump(s), controls, secondary backflow preventer if applicable, valves, etc. associated with the irrigation system, complete ready for electrical connection where applicable.
12. Furnish and install all new irrigation and drip irrigation complete.

13. Furnish and install all new planter dressings, bark, mulches, and all landscape materials.
CLARIFICATION: This Landscape package will be responsible to supply and install all materials as noted within the landscape plans, including screened infield top soil materials, DG, sod, Stolens, Mulches, etc. unless specifically noted otherwise.
14. Furnish and install all baseball bases and pitching blocks per plans.
15. Furnish and provide weed control and clean up of grasses/weeds for the project site, and associated off site locations for the duration of the project, until such time that the district takes possession and acceptance of the new facility.
16. This Landscape contractor is responsible for all the final elevations of Turf, infields, including pitchers mounds, DG, planters, tree wells, and mulches. Coordinate subgrades with Earthwork Contractor, as they will be responsible for the subgrades.
17. Furnish and install all coaches boxes/switches as shown in the Landscape plans, including valves, conduit, control wiring and connections. Coordinate locations with the Site electrical contractor for AC power conduit. Building electrical contractor to install wiring, housing for controller, and receptacle.

FOB Items

1. Provide remote controllers and extra materials to the district through close out procedures with CM Construction Management process.

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

CES-05 BUILDING CONCRETE AND REBAR

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Division 00
 Division 01
 Section 03 11 01 Concrete Formwork
 Section 03 15 14 Drilled Anchors
 Section 03 20 00 Reinforcement
 Section 03 30 00 Cast-In-Place Concrete
 Section 07 14 16 Fluid Applied Waterproofing
 Section 07 92 00 Sealants
 Appendix "B" Interior Color Schedule Plus Drawings
 Appendix "C" Exterior Color Schedule
 Geotechnical Engineering Report

General Items

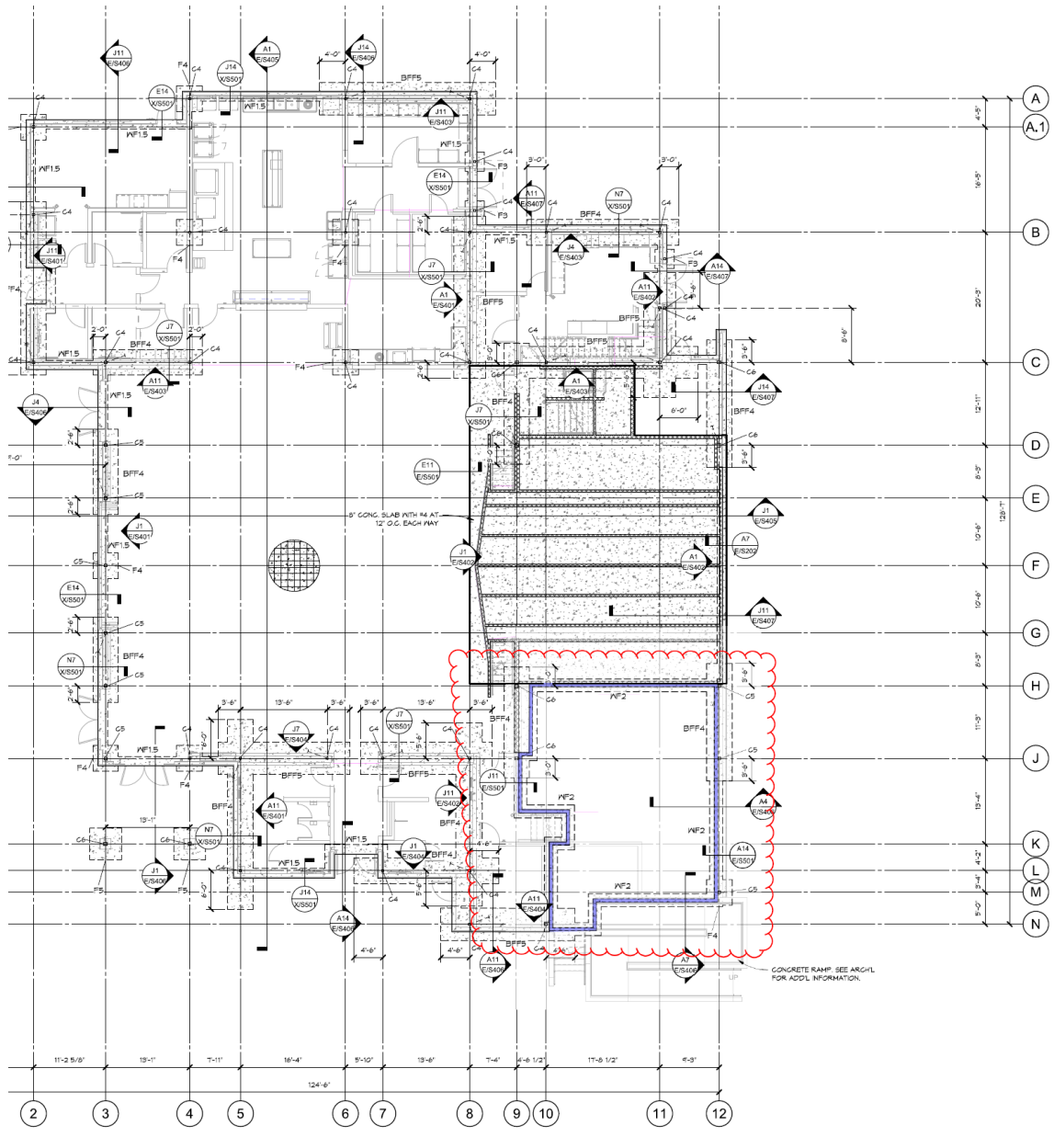
1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.

14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. SUBMITTALS: Provide Rebar reinforcement shop drawings for all footings, curbs, and building columns for buildings E and A will be the first order of business, and due within 30 days of NTP. Bar needs to be pulled for initial tagging at the earliest lab availability following approved review, to expedite production. Following in order will be buildings B, C, D, and K, no later than one week each, after the initial 30 day start for buildings E and A. All subsequent building reinforcement steel drawings are due for submittal no later than 30 days of their scheduled start, noted above.
21. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

1. Location for trades to stockpile their spoils will be established with David A. Bush, and the CES-01 Bid Package contractor.
2. Any survey requests require a minimum of 48-hour notice.
3. Coordinate dimensions with other related contractors of all equipment and housekeeping pads. Pad sizes shall be provided by other contractors and physically laid out and installed by this contract.
4. Coordinate installation of all sleeves for work passing through concrete work with respective contractors prior to excavation.
5. Install and physically layout all embedded items (as provided by other contractors), holes, sleeves and block outs in concrete as shown in the contract documents, related shop drawings or provided written layout. Coordinate locations with related contractors prior to installation.
6. Provide layout drawings for all slab concrete joints for approval prior to installation of site concrete.
7. Review as-builts prior to starting work.
8. This bid package will received all building pads at +/-0.05' and will be responsible for all cut and fill necessary to complete the work of this bid package.
9. Maintain building slab subgrade moisture content per soils report once building pad is received from the earthwork bid package.
10. Coordinate all work to provide access to buildings for other trades as scheduled.
11. Coordinate the location of depressions, block outs, slopes and drains prior to pour.
12. Coordinate concrete curbs relative to framing and door jambs prior to pour.
13. Review as-builts and underground locator survey and pothole utilities prior to starting work.

14. Work must be coordinated to accommodate staff and other trade access.
15. Once all steel embed templates and bolts have been formed and set in place by this bid package, the contractor will schedule with the surveyor to survey the templates for accuracy. Modification and fine tuning to be done under the building concrete bid package, prior to pouring footings. Once footings have been poured, and this bid package has stripped forms and templates, the concrete contractor will set a minimum of one leveling nut to the planned elevation at each column or tube frame.
16. Clean all footings, furnish dewatering and protection of all embed bolts until turned over to structural steel for erection.
17. Set a minimum of one leveling nut, to the planned finish elevation, at each steel column location, interior and exterior.
18. For reference, the following note is in CES-01, Increment 1 for the earthwork contractor, and the coordination with this CES-05 Structural building Concrete package. Specific to building E, from grid lines H to N, and 9 to 12, the slab is 3'-7" higher than the overall building slab. The earthwork contractor will build this up as required, then cut the material back to allow adequate work space for the structural concrete Bid Package to build footings. The structural concrete contractor will pour footings, build formwork, pour walls, strip, clean, and install fluid applied waterproofing. Once cured, the earthwork contractor will return to backfill and compact up against new walls, and fine grade in preparation for elevated slab pour. See plan detail below for additional reference.



Furnish and Install Items

1. Furnish and install all building concrete. Buildings A, B, C, D, E, K, and Portable building P with associated access, vents, 2-inch rat slab, stem walls and piers. Furnish and install ADA ramps, stairs, and stem walls associated with Building E. Flatwork surrounding these areas to be provided with the site concrete package CES-01, in Increment 1.
2. **Furnish and install all curbs as identified for typical restrooms and kitchen areas, in addition to those shown on the plans. See details N7 and J7 on X/A101 from Addendum 1 drawings. (ADDENDA #2)**
- ~~3. Furnish and install 22-gauge flashing at Building P below grade as required. Reference Detail 3/S1.4. (ADDENDA #2)~~
4. Furnish and install all rebar complete. including ties to existing slab, footings, or stem walls where applicable.
5. Furnish and install all surface saw cutting and sealer per the contract documents.
6. Furnish and install all expansion joints and sealant complete required by the contract documents in concrete.
7. Furnish and install all fluid applied waterproofing at formed walls for elevated slab. Bldg. E
8. Furnish and install all sand, gravel, crushed rock, etc. as detailed at building concrete. All other fill material shall be furnished and installed by the earthwork bid package.
9. Furnish and install any and all excavations and backfill of excavations at all foundations, to the required grade. Excavations to include layout and digging of all building and CMU footings, spread footings, grade beams, etc.
10. Physically layout and install all blockouts, openings, etc.... in concrete from written layout provided by other bid packages for installation of their work.
11. Protect all slab blockouts for other trades working in the area.
12. Furnish and install all building anchor bolts. Coordinate layout with respective primes.
13. Furnish installation of all steel column templates, including bolts, as provided by Steel Contractor. Once installed, schedule a request for survey to have the bolt layouts confirmed with the steel shop drawings layout. Fine tune and adjust as necessary prior to pour.
14. Furnish & install all floor prep for floors out of tolerance poured by this contract, except at LVT.
15. Furnish & install all concrete equipment and housekeeping pads within the buildings.
16. All minor depressions for tile(if applicable) and slopes to drain shall be performed by this Concrete Bid package.
17. Furnish and install all patch and infill at slab as required for all work.
18. Furnish and install redwood nailers in concrete curbs the attachment of finishes as detailed.
19. Furnish and install all drilling of holes for work performed in this contract.
20. Furnish & install all building concrete sealant. Exterior walk sealant to be provided and installed by CES-01, Inc 1 package.
21. Furnish and install all grouting under handrails and at sleeves within the buildings.
22. Furnish and install steel channels for knee wall supports, as provided by the steel bid package, and coordinate layout and quantities with the framing bid package.
23. Provide for architect and engineer's review, saw cutting and expansion joint plan, prior to pouring any interior building concrete.
24. At all exposed concrete floors, pay special attention to obtain a uniform finish, and flatness per specifications. Areas found to be out of tolerance may be required to be removed in their entirety/ or from joint to joint, at the owner/Architect's discretion.
25. Provide and install rebar and concrete at the stairs and landings to the second floor of Building E.
26. Furnish and install rebar caps per OSHA for all rebar associated with this contract's scope of

work, installed by the reinforcement contractor. Furnish and install concrete stake caps associated with this contract's scope of work. Maintaining of Caps is the responsibility of this Prime Contractor. Safety walks at end of day required to ensure caps are in place, and any missing caps replaced.

FOB Items

1. None.

Installation of FOB Items

Note. Unload, inventory, store and notify of deficiencies for all items delivered to the jobsite FOB, to be installed by this bid package.

1. Physically layout and install all items embedded in concrete within the building and structural footings. (i.e. plates, angles, non-bolted tube steel, rails, sleeves, pipe rail, handrails, stair nosing, etc....) as provided FOB jobsite by other bid packages from written layout provided by those bid packages. Install and grout all items installed in sleeves.
2. Install and remove when complete all bolt templates provided by other bid packages except for sill plate bolts.
3. Furnish and install templates from layout provided by the framing and steel bid package.

CES-06 STRUCTURAL STEEL

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Refer to additional related specifications sections for work specifically included in this bid package noted below.

Division 00

Division 01

Section 05 12 00 Steel and Fabrications

Section 05 30 00 Metal Deck

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.

14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. SUBMITTALS: Provide erection, bolt templates and shop drawings for all structural steel columns. Buildings are all to be submitted separately, site FOB items can be as one. Anchor bolt drawings, along with actual templates with the anchor bolts installed, for buildings E and A will be the first order of business, and due within 30 days of NTP. Following in order will be buildings B, C, D, and K, no later than one week each, after the initial 30 day start for buildings E and A. All subsequent building steel drawings are due for submittal no later than 30 days of their scheduled start.
- ~~21. Safe off for existing electrical equipment to be demolished will be the responsibility of this bid package. (ADDENDA #2)~~
22. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

1. Provide coordination drawings for work related to this bid package. Coordinate all drawings with the drawings of other bid packages. Note conflicts and provide potential solutions to CM for review. Coordination must occur prior to installation of work. A representative from your company must be in attendance at all coordination meetings.
2. Field measure all guardrails and handrails.
3. Provide erection and shop drawings for all handrails, stair rails and guard rails.
4. All steel shall be detailed, ordered, fabricated, and erected per the project schedule.
5. All miscellaneous iron shall be detailed, ordered, fabricated, and erected per the project schedule.
6. Provide erection, bolt templates and shop drawings for all structural steel columns. Buildings are all to be submitted separately, site FOB items can be as one. Anchor bolt drawings, along with actual templates with the anchor bolts installed, for buildings E and A will be the first order of business, and due within 30 days of NTP. Following in order will be buildings B, C, D, and K, no later than one week each, after the initial 30 day start for buildings E and A. All subsequent building steel drawings are due for submittal no later than 30 days of their scheduled start.
7. Provide shop drawings for all steel fabrications.
8. Coordinate structural steel embeds.
9. Coordinate steel gate sizes with plans and CMU contractor for embed components/frame. Install frame in conjunction with the CMU installation process.
10. Request and Receive layout (prior to detailing and fabrication) from other Prime Contractors for all items which require holes, openings, reinforcing and bracing related to this Prime Contractor's

scope of work, including but not limited to, bolt holes for attachments, roof openings, HVAC supports, reinforcing steel, etc. Allow 10 days for return of dimensions. Provide coordination drawings for dimension mark ups by other Prime Contractors.

11. Provide a written crane access plan, laydown areas, and movement schedule for coordination with other Prime Contractors.
12. Coordinate vent frames and grating with plans for Portables, and see P/A101 for additional information.

Furnish and Install Items

1. Furnish and install all steel and fabrications, metal deck, and railing systems complete per plans and specifications.
2. Furnish and install all structural steel, miscellaneous iron, metal decking and closures at buildings and canopies, tube steel, channel, and outriggers.
3. **Furnish and install all steel stairs, and associated support and anchorage. See Building E, specifically E/A901. (ADDENDA #2)**
4. Physically layout and install all block outs, openings, reinforcing, bracing and holes in steel & metal deck from written layout provided by other Prime Contractors.
5. Furnish and install deck supports, steel beams, angles, "C" channel reinforcing at all deck penetrations and openings shown on the architectural, mechanical, electrical, plumbing, structural drawings & coordination drawings.
6. Furnish and install all deck support plates required on parallel to deck spanning beams.
7. Furnish and install all metal deck closures, profile closures, closures strips, penetration closures, and neoprene closures at metal deck, exterior canopies, and head of walls. Framing Prime Contractor to furnish and install closures where closure mounts to deck and stud with no concrete.
8. Furnish and install painted markings as required to identify yield lines on brace frames and similar.
9. Furnish and install all primer touch up at welding, structural steel, nuts and bolts, and metal deck.
10. Set leveling nuts at anchor bolts to the proper elevation for structural steel installation after one nut has been set to elevation by the concrete contractor. Assume protection of block outs in slab on grade once structural steel erection begins.
11. Furnish and install covers at all holes in elevated decks created by your own work in which debris may fall to the level below, per Cal OSHA regulations.
12. Furnish all roof access ladders. Coordinated blocking as required.
13. Furnish and install all rebar welded to structural steel, angle iron, and misc. iron.
14. Furnish and install all tube steel assemblies and angles for roof screens.
15. Furnish and install all steel canopies complete.
16. Furnish and install all pipe rails, handrails, drinking fountain guard rails/bollards, hold open posts / rails, and guard rails directly embedded in concrete or masonry.
17. Furnish and install all misc. iron & angles attached to concrete and masonry.
18. Furnish and install all components of the steel gate assemblies at CMU. Coordinate the channel attachment with plans and CMU contractor. Install channels during the CMU installations. See SD/A303 for example.
19. Furnished and install all attachment devices for handrails / guard rails.
20. Furnish and install all compressible material at structural steel.
21. Furnish and install all steel stairs and rails complete. Schedule installation with steel erection to allow for use by the project for access.
22. Furnish and install all beams and rails for stage curtain systems, including all holes if required for installation of material.

23. Furnish and install all tube steel and angles for roll up doors, if required.
24. Furnish and install steel closure plates for attachment of clips by framing Prime Contractor.
25. Furnish and install all AESS (Architecturally Exposed Structural Steel) as called for on the contract documents.
26. This contract will complete all work per the requirements of the Dust Control Plan and SWPPP Plan.
27. Provide Dust Control for own work.
28. Furnish / Install / Maintain safety cables, posts, temporary guardrails, and / or covers at all floor opening (per OSHA requirements) and for all leading edges throughout the project. Posts are not to be installed in a manner which would cause them to be embedded within exposed concrete.
Clarification: Rails and cables are to be removed by this CES-06 Bid Package, only after all structural roof work has been completed, signed off, and coordinated with the CM and Roofing contractor. (ADDENDA #2)
29. Furnish and install own floor protection.
30. Furnish and install all miscellaneous iron required for framing.
31. Furnish and install all structural steel support in roof framing for all HVAC equipment. HVAC Prime Contractor to provide and install support rods, angle iron, and diagonal bracing as shown in mechanical.
32. Furnish and install all structural support as required for electrical or plumbing items to be suspended or mounted to structural steel members.
33. Provide all Galvanizing of steel and deck components as required by contract documents.
34. Provide All Deck and deck closures per plan.
35. Provide all gage metal associated with structural steel or deck.
36. Furnish and install any and all steel framing for architectural, mechanical, plumbing, and electrical openings.
37. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this Project.

FOB Items

1. All structural steel anchor bolts and templates.
2. Furnish FOB jobsite all bolt templates for all patterns (made 10ga or thicker of steel one of each column) for use by the concrete contractor. Include (4) punched ¼" holes on each plate as directed by the building concrete contractor.
3. Furnish FOB jobsite all associated sleeves for handrails, and guard rails, etc. for installation by this contract.
4. FOB all counter support brackets, Structural steel / iron that attaches to framing/casework and equipment support. Count and handing to be confirmed with plans and casework. See X/A 310, and Similar at counter roll up's, see A7, A11/ X/A411.
5. Furnish embed plates and angles with rebar/nelson studs per contract documents FOB Jobsite for installation by others.
6. Furnish threshold / slab edge angles FOB jobsite. See slab edge angles A1/X/A411 as an example.
7. Access ladders
8. Steel tube wall supports at low walls. See N1/E/A104.
9. Furnish steel angles and grating for venting of the portable buildings. See plans for size and quantities. Grates and frames to be installed by site concrete bid package.
10. Furnish steel stand for the safe. See details.

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

1. Not Applicable.

End of Bid package

CES-07 SHEET METALS, MEMBRANE ROOFS, WALL AND ROOF PANEL SYSTEMS

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Refer to additional related specifications sections for work specifically included in this bid package noted below.

Division 00

Division 01

Section 07 21 00 Insulation (As applicable to roof systems)

Section 07 40 00 Metal Panels

Section 07 54 19 Elastomeric Membrane Roofing

Section 07 60 00 Sheet Metal

Section 07 92 00 Sealants

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.

13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

1. Provide coordination drawings for work related to this bid package. Coordinate all drawings with the drawings of other bid packages. Note conflicts and provide potential solutions to CM for review. Coordination must occur prior to installation of work. A representative from your company must be in attendance of all coordination meetings.
2. Coordinate all work to provide access to buildings for other trades as scheduled. Coordinate other activities in the schedule for other trades and confirm with construction schedule.
3. Provide shop drawings for all fabrications.
4. Coordinate downspouts with steel, Framing, and Site Plumbing package.
5. Provide written lay-out for all backing required.
6. Coordinate backing and reglet elevations with metal framing contractor.

Furnish and Install Items

1. Furnish and install all flashing and sheet metal including prefinished, for metal panels.
2. Furnish and install parapet cap at all locations and all other flashing and sheet metal on the project.
3. Furnish and install reglet flashing where stucco or wall panels meet roofs or other surfaces.
4. Furnish and install gutters.
5. Furnish and install all hangers, supports and bracing necessary for installation of work included in this contract.
6. Physically layout for own work.
7. Furnish and install all boot flashings.
8. **Provide sheet metal cap and associated flashings for electrical and mechanical equipment platforms as shown. (ADDENDA #2)**
9. Furnish and install Door and Window Flashings.
10. Furnish and install all sheet metal window sill flashings. Coordinate sizes, depths, and configurations with Storefront/window prime contractor and all plans.

11. Furnish and install all sleeves for all utilities passing through exterior finishes where applicable.
12. Furnish and install wall penetration flashings.
13. Furnish and install all wall opening flashings.
14. Furnish and install all metal wall, roof, and ceiling panel systems complete. Install Z furring as indicated. All wall rigid Insulation included in Bid Package CES-09. **Clarification: This CES-07 bid package will furnish and install vapor/weather barrier and flexible flashings over insulation at areas for own work/metal panels. Extend weather barrier a minimum of one stud bay beyond limits of metal panels to ensure proper lap where materials will be continued by plaster contractor. (ADDENDA #2)**
15. Furnish and install all items noted in the drawings and spec's associated with metal roof and wall panels as a complete system.
16. Furnish and install prefinished, color matched sheet metal for all conditions shown.
17. Furnish and install all sealants as noted above, in addition to the following is a list of specific items:
 - a. Furnish and install all sealants associated with the prefinished roof or wall systems, including where prefinished materials abut an adjoining finished material, as shown in specific details.
18. Furnish and install all panels, and clip systems complete, including Z furring/hat channels as detailed.
19. Furnish and install all exterior rigid insulation at roof and under metal roof panels per plans.
20. Furnish and install all flashings and trim at ductwork penetrations through exterior walls or roof.
21. Furnish and install all flashing and trim at exterior wall to slab transitions.
22. Furnish and install metal and roof panels including all closure and flashings complete.
23. Furnish and install all sealant between metal panels and plaster.
24. Furnish and install all field cutting of metal roof and wall panels, as required, to meet construction schedule.
25. Furnish and install sealant at louvers and hollow metal frames.
26. Furnish and install drip edge, flashings, and counter flashings at roof.
27. Furnish and install watertight closures, (pre flashings) at all gang and individual pipe penetration through exterior walls.
28. This contract will adhere to the requirements of the Dust Control Plan and SWPPP Plan.
29. Provide Dust Control for Own Work.
30. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this Project.
31. Furnish and install all roof jacks. Coordinate sizes and quantities with other Primes and plans.
32. Furnish and install all sheet metal window sill flashings. Coordinate sizes, depths, and configurations with Storefront/window Prime Contractor and all plans.
33. Furnish and install all sleeves for all utilities passing through exterior finishes where applicable.
34. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this Project.

FOB Items

1. Color match touch up paint.

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

CES-08 FINISH CARPENTRY

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00

Division 01

Section 06 22 00 Millwork

Section 06 41 23 Modular Casework

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.

14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. Provide daily cleanup to keep site clean and orderly.
18. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
19. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
20. This contract is to provide temporary power for own work until such time as building temporary power is established.
21. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

Furnish and Install Items

1. Coordinate and install counter brackets mounted to studs furnished by building steel bid package.
2. Furnish and install all casework shown on the contract documents.
3. Furnish and install all drilling of holes for work performed in this bid package.
4. Furnish and install all openings in casework and tops for other trades as well as cable holes and grommets as laid out by District.
5. Furnish & install all sleepers, shims, floor anchorage devices, angles, and floor blocking for attachment of casework. Backing in wall to be provided by the framing bid package.
6. Furnish and install wood rough carpentry framing incorporated into casework including utility chases.
7. Furnish and install all supports and bracing necessary for installation of work included in this bid package. Including surface mounted counter support brackets, and those built into reception counter areas. Structural steel counter brackets by others.
8. Furnish and install casework accessories as noted in specification.
9. Furnish and install shims and wood supports.
10. Install all counter support brackets, Structural steel / iron that attaches to framing/casework support.
11. Furnish and install all counter tops.
12. Furnish and install all solid surface window sills.
13. Furnish and install all casework/Millwork, doors, trims, nosing, skirting, railings, etc. at stage. Steps to be flooring contractor.
- 14. Furnish and install all millwork accent wall/ceiling components. Trees and accent laminate, see X/A 316 and other specific conditions listed within the casework schedule documents. (ADDENDA #2)**
15. Furnish and install all Wood framing incorporated into casework and laminated walls.

16. Furnish and install angle connectors.
17. Furnish and install trim.
18. Provide casework submittals and shop drawings within 14 days of Notice to Proceed.
19. Provide all accessory items normally required by this trades standard of care.
20. Furnish and install upholstery where shown. **Clarification: Furnish and install all associated upholstery with Modular Casework. See J7 on X/A315 for an example. (ADDENDA #2)**

FOB Items

1. None

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

CES-09 METAL FRAMING, PLASTER, AND GYPSUM BOARD

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Refer to additional related specifications sections for work specifically included in this bid package noted below.

Division 00

Division 01

Section 03 15 14 Drilled Anchors

Section 07 21 00 Insulation (as applicable to all exterior wall rigid insulation)

Section 09 22 16 Metal Framing

Section 09 24 00 Cement Plaster

Section 09 29 00 Gypsum Board

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.

13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. Furnish clean up daily and off-haul of all general trash debris generated by this contract to the bins provided by CES-12. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.

Coordination with Other Trades

1. Provide coordination drawings for above ceiling work for work related to this bid package. Coordinate all drawings with the drawings of other bid packages. Note conflicts and provide potential solutions to the CM architect for review. Coordination must occur prior to installation of work. Attend all coordination meetings required to coordinate all above ceiling work.
2. Coordinate installation of blocking, backing, etc. for other bid packages from written/physical layout provided.
3. Provide review and verification of space for ADA requirements prior to framing. Report any discrepancies.
4. Confirm backing is installed to satisfaction of toilet accessory and toilet partition contractor prior to installation of ceramic tile.
5. Coordinate stud layout where applicable for the installation of counter support brackets.
6. Coordinate the installation of fire safing/insulation with the insulation contractor. Insulation contractor to provide insulating materials for all areas that would be concealed during the framing, making post framing installation not practical or possible. Framing package to install insulation in headers, trimmers, channels, and heads of walls.
7. Provide a plaster control and expansion joint layout for architect approval prior to installation.
8. Plaster Bid package shall coordinate with Painting Bid Package the application of the cement plaster painting system, and provide written report of the cement plaster pH prior to the painting application.
9. Install and bolt metal studs to Steel tube wall supports at low walls. See N1/E/A104.

Furnish and Install Items

1. Furnish and install all exterior rigid insulation at walls, including weather barrier over framing and insulation if assembly required per specs. "All exterior" is to include areas behind all wall finishes, stucco, metal panels, columns, when applicable, etc. Coordinate with metal panel contractor for specifics as necessary.
2. Furnish and install own floor protection (i.e., Tarps, plastic, plywood, etc.).
3. Furnish and install all drywall systems as called for in the contract documents.
4. Furnish and install all fire rated top of wall systems. Insulation contractor to "Stuff and Spray" appropriate materials per plans.
5. Furnish and install all cement board/green board including skim coat prep for finishes.
6. Furnish and install all tape and texture systems. Provide adequate heating to ensure that tape/textured areas that are worked on any given day, are dry enough to resume work for the following coat, texture, priming, or paint, the following day, start of work.
7. Furnish and install all sound board.
8. Furnish and install all gypsum suspended ceilings.
9. Furnish and install all insulation and fire safing as required in concealed and framing entrapped areas.
10. Furnish and install acoustical caulking where applicable.
11. Furnish and install all lath, plaster, drywall, and metal stud framing complete.
12. Install insulation at metal deck voids at top of wall in entrapment conditions.
13. Furnish and install all metal stud or flat backing for all trades, including backing for plumbing downspouts, Casework, railings, signage, electrical, restroom accessories, kitchen equipment, etc.
14. Furnish and install all fire rated assemblies wrapped in drywall as called for throughout the documents.
15. Furnish, install, remove scaffolding for all work included in this trade.
16. Furnish and install all gauge plate to install studs at metal deck.
17. Furnish and install all gauge closure plate to connect deck to studs.
18. Furnish and install all gauge material for attachment for metal studs and braces.
19. Furnish and install all insulation draft / fire stops framing and drywall per plans.
20. Furnish and install all items noted in contract documents as cement plaster. This includes but is not limited to the following: Flexible flashings and water/air barrier specified as part of the system.
21. Furnish and install all Flexible Penetration Flashing Sheets around all items that penetrate ~~the Cement Plaster~~ **all building exterior walls (stucco, metal panels, etc.)** including but not limited to doorframes, window frames, structural steel, piping etc. as required for a complete water/airtight assembly as designed. **Extend weather barrier a minimum of one stud bay beyond limits of stucco to ensure proper lap where materials will be continued by metal panels contractor. (ADDENDA #2)**
22. Furnish and install all metal framing attachments to Structural Steel & metal deck.
23. Furnish and install metal stud/flat strap backing for all electrical mechanical and plumbing shown on those drawings.
24. Furnish and install backing for plaster expansion joints and moldings as required for proper installation.
25. Furnish and install framing and sheetrock for fire rated assemblies at electrical, plumbing, and mechanical utilities and fixtures.
26. Furnish and install gypsum board exterior sheathing.
27. Furnish and install primer / surface coat at gypsum board as called for in the specifications.

28. Furnish, install and physically layout all openings, block-outs, metal backing, blocking, blocking for utility and fixture supports. Coordinated locations with related trades prior to installation of metal framing.
29. Protect adjacent products during plaster operations.
30. All means of temporary heat/cooling for installation of work (taping/texture) will be provided by this bid package.
31. This contract will complete all work per the requirements of the Dust Control Plan and SWPPP Plan.
32. Provide Dust Control for Own Work.
33. This bid package is to provide a washout for cleanup after construction activities, reference SWPPP plan for details and requirements. Location of washout should be in a location so as to not obstruct or impede work by other trades.
34. This bid package is to off haul all metal stud/framing scrap. All weight and recycle tags are to be delivered to the Waste Management Coordinator (CES-12).
35. This bid package is to provide all haul off of drywall gyp scrap. All weight tags to be delivered to the Waste Management coordinator.
36. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this Project.
37. Provide all scaffolding for own work, including all permits for scaffolding as required. Daily inspections before start of work are mandatory. Provide daily safety inspection reports to CM (CM).
38. Furnish and install all hangers, supports and bracing necessary for installation of work included in this Contract.
39. Prime Contractor is responsible for all work referenced throughout the project documents related to this Prime Contractor's scope of work.
40. Provide complete mockups as required by the specifications.
41. Furnish and install protection of all roofing when work under this contract requires access on the roofing systems.
42. Furnish and install self-furring lath and smooth wall/Parged wall material over CMU for chalk board paint. See N4/SD-A304

FOB Items

1. Provide the concrete bid package with physical layout and all bolts if required for this package, that embed into concrete and masonry for sill, wall, cap, and ceiling framing related to this scope of work. A concrete sign-off will be acknowledge prior to concrete placement.

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

CES-10 WALL MATERIALS AND ACOUSTICAL CEILINGS

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00

Division 01

Section 09 50 00 Acoustical Ceilings

Section 09 72 00 Wall Coverings

Section 10 26 00 Wall and Corner Guards

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.

14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

Furnish and Install Items

1. Furnish and install all acoustical ceiling complete.
2. Furnish and install all FRP.
3. Furnish and install all vinyl covered tack board.
4. Furnish and install all hangers, supports and bracing necessary for installation of work included in this bid package.
5. Furnish and install all Acoustical caulking and sealant at all locations where tack board meets other materials.
6. Furnish and install tile at electrical and low voltage devices prior to dropping of tile activity-
7. Furnish and install all "hanger wires" for work in this bid package and light fixtures, cable trays, projector mounts and air terminals per detail. Electrical and mechanical bid packages will make final connections to devices.
8. Furnish and install all compression struts.
9. Furnish and install all protective wall coverings (FRP) and corner guards complete.
10. Furnish and install all tack board and associated trims.
11. Furnish and install all corner guards.
12. Provide daily clean-up and off-haul of own debris.

FOB Items

1. None

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

CES-11 PAINTING

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00

Division 01

Section 03 35 10 Polished Concrete Finishing

Section 07 92 00 Sealants

Section 09 67 23 Resinous Flooring

Section 09 91 00 Painting

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.

13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

1. Schedule paint coats so as to allow for completion of work with minimal damage with final coat being installed with majority of work completed. Touch up as required.
2. Plaster Bid package shall coordinate with Painting Bid Package the application of the cement plaster painting system, and provide written report of the cement plaster pH prior to the painting application.
3. Coordinate the painting of mechanical Prime Contractor provided louvers or vents, light fixture escutcheons, and other similar items designated to be painted to match at accent walls and ceilings.

Furnish and Install Items

1. Furnish and install all painting and sealing complete for the project.
2. Furnish and install finish as specified for trim, doors, and millwork.
3. Furnish and install all surface preparation and finish of all flashing to be painted.
4. Furnish and install touch-up painting.
5. Furnish and install all painting of mechanical, plumbing, and electrical utilities and equipment as required. HVAC grilles & registers as required.
6. Furnish and install painting at all new doors as required.
7. Furnish and install all accent, murals, Logo's, and signage painting.
8. Furnish and install own floor protection (i.e., Tarps, plastic, plywood, etc.).
9. Furnish and install CFS Concrete Floor Sealers on floors as specified.
10. Furnish and install all resinous floor systems complete. Prep as required. Grind concrete at openings. Coordinate with door hardware installer. (Thresholds for extent)
11. Furnish and install painting of door frames as shown on the drawings and in the openings schedule.
12. Furnish and install Caulking and sealants of new hollow metal frames, interior and exterior.
13. Furnish and install Paint at all flashings, caps, trims, steel, steel downspouts, etc., where not noted to have "Factory Finish".

14. Furnish and install painting of all site items noted or scheduled. See fire equipment for example SD/X102.
15. Furnish and install Chalk Board Paint at CMU. Coordinate with CMU and Plaster. See N4/SD/A304 for reference.

FOB Items

1. None

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

CES-12 GENERAL SPECIALTIES

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00

Division 01

Section 01 64 00 Owner Furnished Items (ADDENDA #2)

Section 01 74 19 Waste Management

Section 03 15 14 Drilled Anchors

Section 06 10 00 Rough Carpentry

Section 07 18 50 Vapor-Alkalinity Control

Section 07 21 00 Insulation

Section 07 72 00 Roof Accessories

Section 07 92 00 Sealants

Section 08 11 00 Metal Doors and Frames

Section 08 15 13 Laminate-Faced Wood Doors

Section 08 31 13 Access Doors and Frames

Section 08 33 00 Coiling Doors

Section 08 41 00 Storefronts

Section 08 41 13 Folding Door System (ADDENDA #2)

Section 08 56 59 Service Windows

Section 08 70 00 Hardware

Section 08 70 00.1 Hardware Schedule

Section 08 80 00 Glass

Section 09 30 00 Tile

Section 09 64 66 Resilient Wood Floor

Section 09 65 10 Resilient Base and Accessories

Section 09 65 16 Resilient Sheet

Section 09 68 40 Carpet

Section 10 05 00 Miscellaneous Specialties (Building Plaque, Dimensional Letters, **Cubicle Curtain System, Folding Partitions, Lock Box, Stair Stripping, Safe, Book Cart, Projection Screen**) (ADDENDA #2)

Section 10 11 00 Visual Display Boards

Section 10 14 00 Identifying Devices

Section 10 21 13 Toilet Partitions

Section 10 28 13 Toilet Accessories

Section 10 44 00 Fire Protection Specialties

Section 10 51 13 Metal Lockers

Section 11 16 16 Safes

Section 11 40 00.01 Food Service Equipment

Section 11 61 43 Platform Curtains

Section 11 68 13 Play Equipment

Section 14 42 00 Wheelchair Lifts

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule
Geotechnical Engineering Report

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting

requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.

19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.

Coordination with Other Trades

1. Provide coordination drawings for above ceiling work for work related to this bid package. Coordinate all drawings with the drawings of other bid packages. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to installation of work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. Confirm that backing by framer is installed to satisfaction of toilet accessory and toilet partitions installer prior to installation of ceramic tile.
3. Coordinate ceramic tile installation with mirror locations at toilets.
4. Provide written layout for all backing required for this bid package.
5. Coordinate at the jobsite all plumbing and electrical locations during rough-in activities to assure proper fit at time of casework and equipment installation.
6. Due to schedule constraints field measuring should be considered at framing stage in lieu of after all drywall and finishes are complete. Review the schedule to determine necessity relative to fabrication times. If measurement is required at the framing stage, provide measurement to meet the schedule and figure all associated finishes.
7. Coordinate hollow metal and storefront openings with framing Prime Contractor. Verify all openings after framing, and before exterior finishes to ensure proper fitment.
8. Coordinate size, shape and profiles of sheet metal pans and head flashings with sheet metal package. Installations and phasing to be coordinated for best time management of multiple trades with CM.
9. Coordinate electrical and FA with coiling doors as required.

Furnish and Install Items

1. Furnish and install all hangers, supports and bracing necessary for installation of work included in this bid package.
2. Provide daily clean-up and off-haul of own debris.
3. Furnish and install own floor protection.
4. Furnish and install fire-stopping/safing complete.
5. Furnish and install layout for your own work.
6. Furnish and install Scaffold for own work.
7. Protect existing surfaces to remain from damage from your work.
8. Furnish and install all interior insulation complete.
9. Furnish and install all fire safing and insulation at underside of roof decks at head of walls, beam pockets, and structural steel.
10. Furnish and install all fire rated top of wall systems complete. Safe, stuff, spray, etc.
11. Furnish and install floor prep for flooring. Level concrete within tolerance as required.

12. Furnish and install all flooring prep per manufacturers requirements, including filling, patching, crack control, leveling as required.
13. Furnish and install all flooring, with the exception of polished or resinous materials.
14. Furnish and install all wood steps, nosing's, and coordinate with Finish Contractor trims.
Clarification: Flooring contractor to include installation of all contrasting color stripes at steps per code and as called for per plans. (ADDENDA #2)
15. Furnish and install all walk off materials.
16. Furnish and install all sheet flooring.
17. Furnish and install all carpet. Clarification: All carpet specified as "Clovis Blue" and "Walk off" will be provided by the district, and installed by this bid package. Any other carpet types or colors will be furnished and installed under this bid package.
18. The flooring contractor is to include all flooring installations at the portables. This ~~might~~ includes "Furnish Mondo and install". New portables drawings indicates that carpet, sheet flooring, and rubber base are all by others. **(ADDENDA #2)**
19. Furnish and install all rubber base at all floor systems throughout the project per plans and finish schedules.
20. Furnish and install all tile. Walls, floors, base, and grouts.
21. Furnish and install all exterior signage shown on architectural drawings complete except for parking and street signage.
22. Furnish and install all access signage on walls and fencing. Earthwork to provide all parking lot signage.
23. Furnish and install all building lettering and signage.
24. Furnish and install all dimensional letters complete.
25. Furnish and install all interior graphics.
26. Furnish and install building plaque.
27. Furnish and install all toilet accessories and mirrors.
28. Install all owner provided Soap and paper towel dispensers.
29. Furnish and install all mop/broom/rag holders.
30. Furnish and install all new toilet partitions.
31. Furnish and install firefighting devices.
32. **Furnish and** Install ~~Owner-supplied~~ Knox boxes. **(ADDENDA #2)**
33. Furnish and install access doors shown on the reflected ceiling plan.
34. Furnish and install all wood framing. Steps, plywood backer boards, and in electrical/data rooms per finish schedule
35. **Furnish and install all plywood, including stage subfloor, and including under stage on walls listed as rough carpentry, fire rated sheathing, etc. (ADDENDA #2)**
36. **F&I all rough carpentry, in all locations as shown in plans, including those, but not limited to those associated with the furring/shim space at storefront and similar conditions. See X/A421 for examples. (ADDENDA #2)**
37. Project final cleaning.
38. Provide project final cleaning. All buildings, inside and out, windows, doors, walls, floors, cabinets, tops, restrooms, sidewalks, parking areas, etc.
39. Furnish, install, manage, trash and waste management.
40. Provide project trash/recyclable materials dumpsters, per spec section 01 74 19. Provide for the haul off and disposal of all trash and recyclables during the course of the project. Provide Reports per specifications. Drywall and metal stud scrap will be disposed/recycled by the metal stud framing contractor, and all tags will be provided to this general Specialties contractor for tracking

and waste management reporting.

41. Furnish and install all roof accessories. Hatches, ladder ups, railings, stage roof vent, etc.
42. Furnish and install all stage roof vent rigging, pulleys, winch, proposed installation layout plan, etc. for manual testing. Coordinate all backings and blockings with metal framing, and manufacturers recommendations. Any materials thicker than the 16 ga stud materials required for backing (if applicable) will be provided and installed under this Misc. Specialties package.
43. Furnish and install all doors. Wood, aluminum, laminate faced, hollow metal, steel, roll up, etc.
44. Furnish and install all electronic access controls. Connect to power supplied by Electrical contractor. Test and confirm operations.
45. Furnish and install all hardware and doors complete.
46. Furnish and install all Storefront systems complete, including all testing, glazing, hardware, etc.
47. Furnish and install door hold opens at concrete including coring of existing concrete as needed.
48. Furnish and install all wood doors and plastic laminate faced wood doors.
49. ~~Furnish and install all bituminous penetration flashing around all items that penetrate the building envelope including but not limited to door frames, window frames, structural steel, piping, etc.~~ **(ADDENDA #2)**
50. ~~Furnish and install building paper, moisture barrier / Tyvek, flexible flashings, and sealants per plans and manufacturer's instructions at installations.~~ **(ADDENDA #2)**
51. All and any aluminum closures, break metals, trims, flashings, sill pans, for any storefront is to be provided and installed under this package.
52. Furnish and install all glass/glazing, and associated sealants.
53. Furnish and install all hollow metal frames, doors, and windows.
54. Furnish and install all louvers and door lights as shown and per schedule.
55. Furnish and install all coiling doors.
56. Furnish and install all service windows.
57. Furnish and install all hardware. Gate and decorative fence hardware to be provided and installed under the site concrete and fence package.
58. Furnish and install all visual display/dry erase markerboards. Coordinate and confirm backing with framing, and coordinate placement with electrical and low voltage.
59. Furnish and install all lockers, including the installation of the owner furnished Bike Lockers.
60. Furnish and install all bike racks.
61. Furnish and install Flagpole assembly complete. Coordinate location, excavation, sleeve installations with Site Concrete plan and Prime Contractor.
62. Furnish and Install Safe. Coordinate installation with casework and metal stand in tall storage cabinet. **Clarification: Provide AMSEC safe model UL1812E, as listed in Addendum 1 new detail N11. AD1 AX04. Disregard safe reference in both the safe specification, and the one listed in the General Specialties specification. (ADDENDA #2)**
63. Furnish and install all food service equipment per plans, including custom fabrications, and all stainless wall panels at cooking line. Coordinate Food Service Shop drawings with plans and Framing.
64. Provide all factory start ups for supplied equipment.
65. Furnish and install sneeze guards. Coordinate size with plans, framing, and Hollow metal Primes and shop drawings.
66. Furnish and install cubicle curtains and stage curtain.
67. Furnish all playground Play structures. Coordinate delivery of the structures to the site to be installed by the CES-01 contractor.

68. Furnish and install all bleachers. (6-five row sets) at ball fields. See plans and detail E on SD/X107. Dugout benches are provided and installed under CES-01 bid package.
69. Furnish and install wheelchair lift. Coordinate layout and installation with building concrete, Framing, electrical, and low voltage.
70. Install all roof access ladders, as furnished by Struct Steel bid package. Coordinate bolting and backing with struct steel, framing, backing, drywall, etc. This may require installing ladder to establish bolting locations, tack weld nuts, then remove ladder for drywall and finishes, then reinstall ladder at finish.
71. Furnish and install all projection screens. Coordinate with framing and electrical.
72. Furnish and install operable wall/folding partition/**Folding door system**. Coordinate with structural steel, metal framing, and finishes. **(ADDENDA #2)**
73. **Furnish and install book cart. (ADDENDA #2)**

FOB Items

1. Deliver insulation to the metal framing Prime Contractor as needed for installations at concealed, entrapped conditions.
2. **Furnish and provide playground play structures (x2) to CES-01 Bid Package for final installation. (ADDENDA #2)**

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

CES-13 FIRE SPRINKLERS

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00

Division 01

Section 03 15 14 Drilled Anchors

Section 07 92 00 Sealants

Section 21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping

Section 21 05 18 Escutcheons for Fire-Suppression Piping

Section 21 05 23 General-Duty Valves for Fire Protection Piping

Section 21 05 29 Hangers and Supports for Fire Suppression Piping and Equipment

Section 21 05 48 Vibration & Seismic Controls for Fire-Suppression Piping & Equipment

Section 21 05 53 Identification for Fire-Suppression Piping and Equipment

Section 21 11 00 Facility Fire-Suppression Water-Service Piping

Section 21 11 19 Fire Department Connections

Section 21 13 13 Wet-Pipe Sprinkler Systems

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.

10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

Furnish and Install Items

1. Furnish and install own floor protection (i.e., Tarps, plastic, plywood, etc.).
2. Furnish and install all supports and bracing necessary for installation of work included in this bid package.
3. Furnish and install fire sprinkler system complete from the point of connection provided from the underground utilities Prime Contractor. (See site plumbing SOW for clarity)
4. Test and flush system per specifications
5. Coordinate the installation of the fire alarm safety devices with the electrical, low voltage Prime Contractor for devices associated with the sprinkler system.
6. Provide and install all signage, and ID tags as required.

FOB Items

1. Tools, keys, and extra heads per plans/spec.

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

End of Bid package

CES-14 BUILDING PLUMBING and HVAC

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Refer to additional related specifications sections for work specifically included in this bid package noted below.

Division 00

Division 01

Section 03 15 14 Drilled Anchors

Section 05 12 00 Steel and Fabrications (For downspouts/RWL's and support attachments)

Section 07 92 00 Sealants

Section 08 91 00 Louvers

Section 22 00 00 General Plumbing Provisions

Section 22 00 50 Plumbing

Section 23 01 00 General Mechanical Provisions

Section 23 01 00 General Mechanical Provisions

Section 23 05 00 Common Work Results for HVAC

Section 23 05 13 Common Motor Requirements for HVAC Equipment

Section 23 05 29 Hangers and Supports for HVAC Piping and Equipment

Section 23 05 48 Vibration and Seismic Controls for HVAC Piping and Equipment

Section 23 05 53 Identification for HVAC Piping and Equipment

Section 23 05 93 Testing, Adjusting, and Balancing for HVAC

Section 23 07 00 HVAC Insulation

Section 23 08 00 Commissioning of HVAC

Section 23 17 10 Variable Frequency Drives

Section 23 23 00 Refrigerant Piping

Section 23 31 13 Metal Ducts

Section 23 31 16 Nonmetal Ducts

Section 23 33 00 Air Duct Accessories

Section 23 34 23 HVAC Power Ventilators

Section 23 34 33 Air Curtains

Section 23 38 13 Commercial Kitchen Hoods

Section 23 72 00 Air to Air Energy Recovery Equipment

Section 23 74 13 Package Outdoor Central Station Air Handling Units

Section 23 74 33 Packaged Outdoor Heat and Cool Makeup Air Units

Section 23 81 50 Variable Refrigerant Flow Air Conditioners

Section 25 50 00 Direct Digital Control and Energy Management Systems

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

1. Provide coordination drawings for work related to this bid package. Coordinate all drawings with the drawings of other bid package. Note conflicts and provide potential solutions to ~~DABI~~ **Construction Manager** for review. Coordination must occur prior to installation of work. A representative from your company must be in attendance of all coordination meetings. **(ADDENDA #2)**
2. Coordinate locations of all openings, block-outs, backing, and blocking for utility and fixture supports with related trades prior to installation of framing.
3. Any holes made through materials to allow installation of utilities not called for in the contract documents shall be installed and reinforced by this bid package.
4. Coordinate all work to provide access to buildings for other trades as scheduled. Provide a breakout schedule of where and when piping operations will be performed that has been coordinated with other activities in the schedule for other trades.
5. Coordinate routing of plumbing to miss foundations.
6. Coordinate the location of depressions, block outs, slopes, and drains with the drawings prior to pour.
7. Housekeeping and equipment pads will be furnished and installed by the concrete bid package. Provide dimensions for pads.
8. Coordinate alignment of all utilities between plumbing and civil drawings prior to excavation.
9. Coordinate at the jobsite all plumbing and electrical locations during rough-in activities to assure proper fit at time of casework and equipment installation. In addition, contractor to confirm all piping will fit in walls.
10. Coordinate individual building tie-ins or cut over with ~~DABI~~ **Construction Manager**. Provide a written testing plan for all systems prior to start of service. **(ADDENDA #2)**
11. Coordinate with other trades that will interface with plumbing equipment and material.
12. Clean and disinfect all building piping and portables with water piping. Phased construction will necessitate a specific schedule of disinfection coordinated with the other building & site contractors. Create disinfection plan and coordinate with building & site contractors to allow for complete and maintained disinfection of the entire system until acceptance by Owner.
13. Coordinate water, gas, condensate, and sewer with plans, and food service shop drawings prior to rough in.
14. Provide dimensions for structural steel openings within 30 days of NTP.
15. Review as-built drawings for POC prior to starting work.
16. Layout blocking as required for hangers and supports for own work. Structural steel contractor will provide and install additional structural steel in roof framing as required and shown. Mechanical to provide and install all suspension rods, angle iron, and bracing as shown in mechanical plans.
17. Provide all necessary openings and/or connection points for EMS and fire alarm wiring and devices.
18. Housekeeping and equipment pads will be furnished and installed by the concrete bid package. Provide dimensions for pads.
19. Coordinate heights of all roof curbs to confirm with roofing requirements prior to ordering curbs.
20. Coordinate location of rough-in prior to ordering HVAC units for electrical mechanical and plumbing utilities.
21. Physically layout all coring, drilling, block outs, openings, holes, backing, etc.
22. All sheet metal as required for HVAC scope, whether noted or not, used on this project shall be furnished and installed under this bid package.

23. Provide all equipment ready for hook up by Electrical bid package. Coordinate utilities and connections with related trades.
24. Coordinate HVAC ductwork and equipment with structural steel, fire sprinkler, electrical, and plumbing.
25. Coordinate all work to provide access to buildings for other trades as scheduled. Provide a breakout schedule of where and when rough-in operations will be performed in the building that has been coordinated with other activities in the schedule for other trades.
26. Provide all necessary openings and/or connection points for EMS and fire alarm wiring and devices. Fire Alarms Systems will be provided under separate contracts. EMS by this contract.
27. Coordinate locations of all openings, block-outs backing blocking and blocking for utility and fixture supports with related trades prior to installation of framing.
28. Layout blocking as required for hangers and supports for own work.
29. Coordinate all utilities with food service prior to rough in of any materials.
30. Provide dimensions for structural steel openings within 30 days of NTP.

Furnish and Install Items (Plumbing)

1. Furnish and install all building fixtures and plumbing utilities to the POC provided by the Site Plumbing bid package, approximately 5'-0" outside of building.
2. Furnish and install all two-way building sewer clean outs as close to the building as possible. This is a district request. Coordinate with building concrete package to avoid footing conflicts.
3. Furnish and install water valves and boxes after POC from site utilities contractor's pipe.
4. Reference building Architectural sheets for all building downspout connections and details. See sheet XA531 for more information.
5. Furnish and install all drinking fountains, interior, exterior, and site.
6. This bid package will be responsible for all final points of connection to all site utilities.
7. Furnish and install physical layout for all deepened foundations at utilities prior to excavation by the concrete bid package.
8. Provide Furnish and install all access Panels required for your work.
9. Provide all backfill of excavations to original subgrade for work included in this bid package.
10. Furnish off-haul of all excavation spoils for work included in this bid package to one location as determined by ~~DAB~~ **Construction Manager. (ADDENDA #2)**
11. Furnish and install all attachments of equipment related to this scope of work.
12. Furnish and install all sleeves in foundations prior to the installation of concrete and reinforcing steel. Coordinate location with other related trades prior to excavation.
13. Furnish and install all excavations for own work.
14. Furnish and install all concrete required for installation of work in this bid package.
15. Furnish and install all drilling of holes for work performed in this bid package.
16. Furnish and install drilling of wood and metal as needed for pipes and supports.
17. Furnish and install all rough-in for equipment supplied under other bid packages(Kitchen equipment, hvac,...) as required by the related specification sections and drawings. Connect to equipment.
18. Furnish and install all required utilities for Owner Furnished Equipment, capped and ready for connection. Make connection when installed.
19. Furnish and install watertight closures at all gang and individual pipe penetration through exterior walls or through roof.
20. Provide testing of floor and roof drains during installation and at completion of project.

21. Clean and disinfect all building piping and portables with water piping. Phased construction will necessitate a specific schedule of disinfection coordinated with the other building & site contractors. Create disinfection plan and coordinate with building & site contractors to allow for complete and maintained disinfection of the entire system until acceptance by Owner. Building contractors will be responsible for cleaning and disinfection of building and portable piping.
22. Furnish and install all identification or lettering noted for the project required for this scope of work.
23. Furnish and install own floor protection (i.e., Tarps, plastic, plywood, etc.).
24. Furnish and install all flues associated with own work.
25. Furnish and install water heater, strapping and platforms complete including steel stand if specified.
26. Furnish & install drain & overflow piping.
27. Furnish & install all trap primers and access panels as needed.
28. Furnish and install protection of existing finishes and roofing for own work.
29. Insulate hot water and drain pipes under sinks per ADA/code.
30. Furnish and install all trench drains.
31. Furnish and install all sand/oil separators complete.
32. Drill all holes required for curb attachment through steel.
33. Furnish and install all fire stopping and acoustical/sound sealant assemblies complete for this scope of work.
34. Furnish and install all condensate piping complete including hook up.
35. Furnish and install all coring or place sleeves for utilities through masonry and concrete. Sleeves are to be installed prior to rebar and concrete. Coordinate with other contractors prior to excavation.
36. Furnish and install all fabrication and installation of steel downspouts and brackets. Coordinate fabrication with steel specifications for reference where applicable.
37. Furnish and install all downspouts and related support bracket assemblies as outlined in Detail A1 on X/A531. Coordinate all backing layout with metal stud framing package, and roofing contractor.
38. Connect steel downspouts to all rain gutters and storm drains, per all disciplines of drawings.
39. This contract is to provide temporary power for own work through completion of steel erection as required. Once temporary power has been established by ~~DAB~~ **Construction Manager**, each contractor will only need to provide temporary utility distribution from services provided. Contractors are responsible for own distribution of power and lighting. **(ADDENDA #2)**
40. Furnish and install all plumbing identified in the plumbing notes, food service documents, and plumbing drawings.
41. Furnish and install covers at all holes in elevated decks created by your own work in which debris may fall to the level below, per Cal OSHA regulations.
42. Furnish and install all roof accessories relative to this contractor's work.
43. Furnish and install all shut off valves, and pressure regulator for the gas systems. Connect gas lines from building to gas POC.
44. Furnish and install all floor drains.
45. Furnish and install all Unistrut, angles, clips, fasteners, etc. to bottom of deck, beams, etc. for hanging of utilities. Means and methods meeting detailed attachment, code, and approved manufacturers methods.
46. Furnish and install all gas regulators. And their security cages as noted "General Specialties" see SD/A302
47. Furnish and install all toilet and sink sensors complete.

48. This contract will complete all work per the requirements of the Dust Control Plan and SWPPP Plan.
49. Provide Dust Control for own work.
50. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this Project.
51. Provide early startup/use of plumbing equipment as required by the ~~DAB~~ **Construction Manager/Owner** for construction or building systems testing, prior to final acceptance, which will not initiate the warranty period until the filing notice of completion. **(ADDENDA #2)**
52. The Plumbing Contractor shall include all of the following in its bid and coordinate with each of its own sub trade for a complete project. Each contractor shall submit, at time of the bid, their crewing and bid package plan as to who will be performing what scopes of work and the crew size planned for each.
53. Any deviation from the contract documents resulting in additional design will be at the cost of this bid package.
54. This contract shall be responsible for all fireproofing/caulking/assemblies for own work.
55. Furnish and install all building clean outs approximately 2' from the building, or as close to the footing as possible at wide footings. Coordinate layout and installation with structural concrete bid package. All clean outs are to be two-way clean outs, per district standards.

Furnish and Install Items (HVAC)

1. Furnish and install all HVAC equipment, duct, hangers, backing, bracing, supports, and piping supports and curbs necessary for installation of work included in this bid package.
2. Furnish and install EMS system complete.
3. Furnish and install all access doors necessary to provide access to work included in this bid package.
4. Furnish and install all drilling of holes for work performed in this bid package.
5. Furnish and install all attachment of all equipment related to this scope of work.
6. Furnish and install all fire stopping related to this bid package.
7. This contract shall be responsible for all fireproofing/caulking/assemblies for own work.
8. Furnish and install all identification and lettering called for in the contract documents related to this bid package.
9. Provide for testing of fire smoke dampers resettable link coordinate with Fire Alarm bid package. Provide fire smoke dampers ready for power hook up.
10. Provide start up and run equipment for acclimation and allow use of HVAC systems without effecting official start date of Warranty period upon Owner acceptance of project. Provide early startup and maintenance of HVAC equipment as required by CM, for acclimatization of buildings prior to final acceptance, which will not initiate the warranty period until the filing notice of completion. Provide for 2 filter changes for all required equipment throughout the building. If filter replacement is not required, then filters are to be turned over to the district during close out procedures.
11. Furnish and install own floor protection (i.e., Tarps, plastic, plywood, etc.).
12. Furnish and install all pre-manufactured roof curbs at the roof.
13. Furnish and install all roof curb adapters as required.
14. Furnish and install transfer air grilles as noted.
15. Furnish and install fusible links for equipment testing if applicable.

16. Provide all controls unless specifically called for in electrical drawings.
17. Furnish and install all duct work and flues complete associated with own work.
18. Furnish and install all metal louvers and screens. Provide associated attachment accessories.
19. Furnish and install louvers at walls complete. Coordinate with exterior envelope flashing contractor/ installer.
20. Furnish and install all fire and fire smoke dampers ready for device hook up by electrical.
21. Furnish and install all fans.
22. Furnish and install all exhaust systems.
23. Furnish and install sealant as related to this package.
24. Furnish and install Unistrut & pipe support assembly for own work.
25. Provide all necessary openings and/or connection points for EMS and fire alarm. Provide conduit and wiring as required for unit shut down controls.
26. Provide daily clean up. Haul off own debris.
- ~~27. Provide sheet metal cap and associated flashings for electrical and mechanical equipment platforms as shown.~~ **(ADDENDA #2)**
28. Furnish and install all unit anchorage complete as noted.
29. Furnish and install control conduit and conductors.
30. Install communicating smoke detector unit shutdown at the air handler as noted.
31. Furnish and install all refrigeration piping for all HVAC equipment shown on the plans per manufacturer's instructions, engineered calculations and Specifications.
32. Furnish and install all HVAC and Sheet metal (as applies to mechanical equipment) work complete per plans and specs.
33. Furnish and install all control panels and support.
34. This contract is to provide temporary power for own work through completion of steel erection as required. Once temporary power has been established each contractor will only need to provide temporary utility distribution from services provided at the building. Contractors are responsible for own distribution of power and lighting.
35. Furnish and install all drilling of holes, including through metal, for work performed in this contract.
36. Furnish and install all galvanized steel supports for ductwork at roof if required.
37. Furnish and install fire duct wrap.
38. Furnish and install all equipment anchorage.
39. Furnish and install all flashings associated with ductwork, fans, and hoods, through walls, decks, and roof.
40. Furnish and install all louver assemblies complete including all clips, screws, and angles necessary to attach louvers except for hollow metal frame to be provided by other Prime Contractors
41. Furnish and install all mechanical noted in the mechanical notes throughout the food service documents complete.
42. Furnish and install all Ansul system complete. Provide gas valve to plumber for installation.
43. Furnish and install all Roof Accessories and/or Curbs/Platforms/Stands/Supports/Steel Backing/Bolts/Angles (wood/ steel / pre-manufactured / framed) for all Mechanical equipment provided under this contract.
44. Furnish and install all roof mounted pipe supports when required.
45. Furnish and install covers at all holes in elevated decks created by your own work in which debris may fall to the level below, per Cal OSHA regulations.
46. Install all duct mounted smoke detector housings provided by the fire alarm Prime Contractor.
47. Provide all equipment ready for hook up by EMS and Electrical Prime Contractors. Coordinate utilities and connections with related trades.

48. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this Project.
49. Furnish and install EMS system complete including all conduit, wire, controls, and control panels.
50. Furnish Air Balancing with report (to include modular buildings).
51. This contract will complete all work per the requirements of the Dust Control Plan and SWPPP Plan.
52. Provide Dust Control for own work.
53. The Mechanical Prime Contractor shall include all of the following in its bid and coordinate with each of its own sub trade for a complete project. Each Prime Contractor shall submit, at time of bid, their crewing and bid package plan as to who will be performing what scopes of work and the crew size planned for each.
54. This contract shall be responsible for all fireproofing patch back as a result of own work.
55. Furnish and Install sealant for HVAC work included in this contract abutting other materials.
56. Furnish and install all sleeves for work passing through masonry and concrete work where required. Coordinate with Respective Prime Contractors.
57. Furnish and install protection of all roofing when work under this contract requires access on the roofing systems.
58. Furnish and install all hangers, supports, Unistrut and bracing necessary for installation of work included in this contract.
59. Furnish and install all sleeves in foundations prior to the installation of concrete and reinforcing steel. Coordinate location with other related Prime Contractors prior to excavation.
60. All Prime Contractors will provide their own temporary and task lighting needed for this scope of work.
61. This contract is responsible for holes through metal deck and installation of hanger wires for own work where applicable and approved.
62. All work will need to be completed as per the supplied bid schedule.
63. Coordination must occur prior to installation of work. A representative from your company must be in attendance at all coordination meetings.

FOB Items

1. Furnish all starters at HVAC units. Electrical connections shall be made by Electrical bid package.

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

1. Install Duct Detectors provided by Fire Alarm Prime Contractor. Wiring to be completed by electrical Prime Contractor.

End of Bid package

CES-15 BUILDING ELECTRICAL

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Refer to additional related specifications sections for work specifically included in this bid package noted below.

Division 00
 Division 01
 Section 03 15 14 Drilled Anchors
 Section 07 92 00 Sealants
 Section 10 05 00 Miscellaneous Specialties (Projector Support Panel)
 Section 26 05 00 Common Work Results for Electrical
 Section 26 05 26 Grounding
 Section 26 05 53 Electrical Identification
 Section 26 20 00 Low Voltage Electrical Transmission
 Section 26 50 00 Lighting Fixtures
 Section 27 00 00 Telecommunication Systems
 Section 27 05 28 Communications Infrastructure System
 Section 27 10 00 Structured Cabling System
 Section 27 20 10 Uninterruptible Power Supply
 Section 27 42 00 Classroom Audio-Visual Systems
 Section 27 53 13 Analog Synchronous Clocks
 Section 27 70 00 Intercom Clock Public Address System
 Section 27 80 00 Video Surveillance
 Section 28 31 00 Fire Alarm and Detection
 Appendix "B" Interior Color Schedule Plus Drawings
 Appendix "C" Exterior Color Schedule
 Geotechnical Engineering Report

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.

7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. This contract is to provide temporary power for own work until such time as building temporary power is established.
20. Furnish clean up daily and off-haul of all debris generated by this contract to disposal bins provided under CES-12. Prime Contractor must abide by the Waste Management specification.

Coordination with Other Trades

1. Provide coordination drawings for underground and above ceiling work for work related to this bid package. Coordination must occur prior to excavation and/or installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. Provide use and maintenance of electrical equipment and devices as required by the District/or CM for construction and testing of other equipment prior to final acceptance, which will not initiate the warranty period until filing of notice of completion.
3. Coordinate all work to provide access to buildings for other trades as scheduled. Provide an underground utility schedule of where and when piping operations will be performed.
4. Coordinate locations of all openings, block-outs, backing, and blocking for utility and fixture supports with related trades prior to installation of framing.
5. Coordinate location of UG utilities to be out of angle of repose of foundations.
6. Poured in place housekeeping and equipment pads to be supplied by the concrete contractor.

7. Review as-builts and pothole existing utilities prior to starting work.
8. Verify continuity of electrical and low voltage conduits for work in this contract.
9. Provide shop drawings for equipment layout in electrical rooms to confirm that dimensions are adequate prior to rough in and pouring of footings and curbs.
10. Connect "hanger wires" provided by the Acoustical Prime Contractor to hang light fixtures.
11. Coordinate all locations of kitchen equipment for the kitchen and electrical drawings.
12. Provide dimensions for structural steel openings within 30 days of NTP.
13. Coordinate all utilities with food service prior to rough in of any materials.
14. Coordinate wall sizes with pipe sizes prior to installation to confirm all piping will fit in walls.
15. Coordinate locations of all openings, block-outs, backing and blocking for utility and fixture supports with related trades prior to installation of framing.
16. Layout above ceiling blockings/backings as required for hangers and support of own work.
17. Coordinate all underground utilities to miss foundation.
18. Provide Safe off of all electrical equipment as required for trade work.

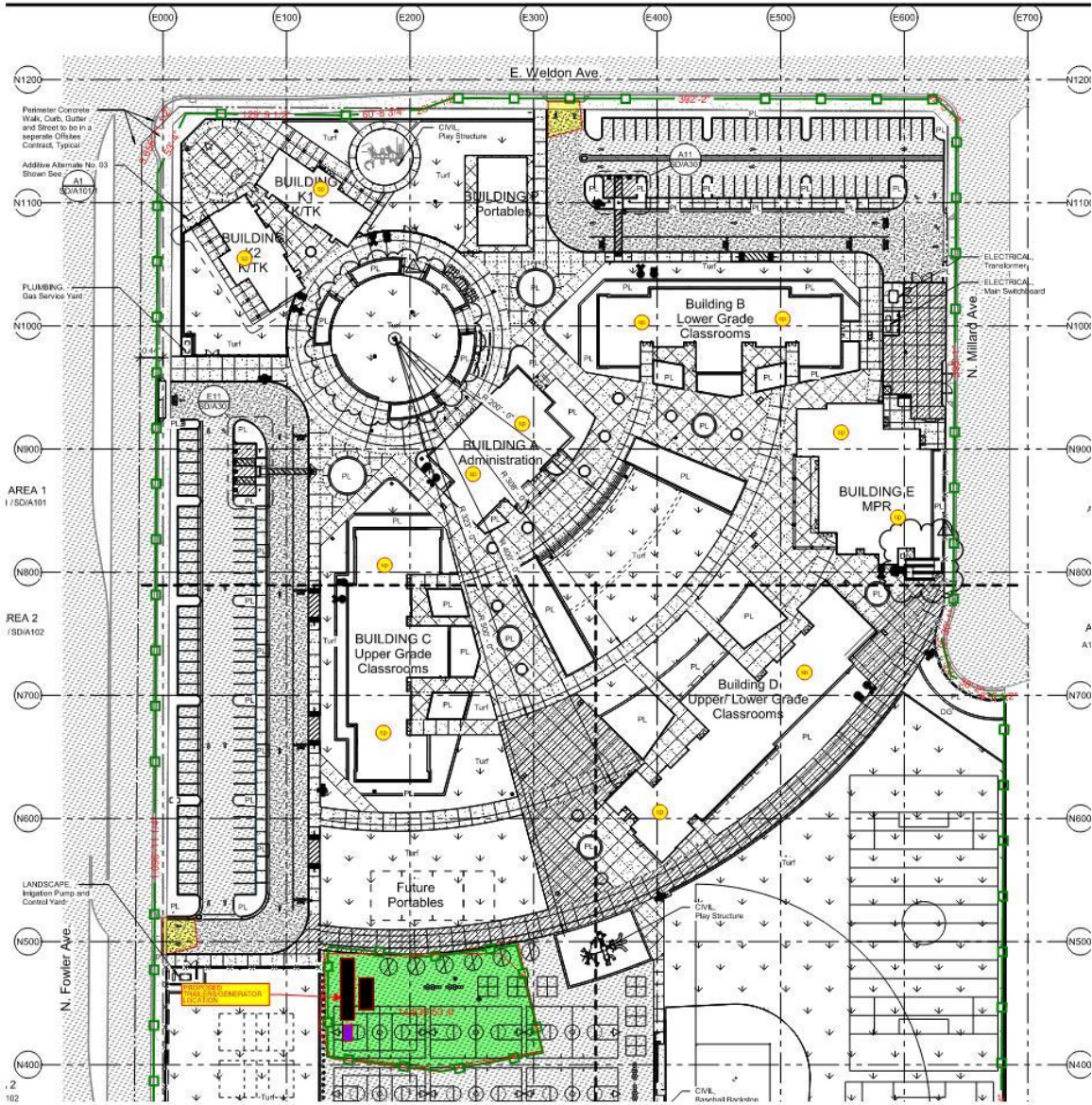
Furnish and Install Items

1. Furnish and install all building and site electrical, wiring and equipment complete, with exception to that being provided in Inc #1, Site Electrical conduit, Rule 16 conduit, switchgear pad, and the installation of the owner supplied switchgear. This bid package CES-15 will provide and install all transformers, disconnects, panels, IDF cabinets, Environmental exterior cabinets, mini unit substation, etc., including concrete footings, equipment pedestal, precast pads, etc.
2. Furnish and install all conduit from the POC where the Inc 1 electrical Prime Contractors installations stop. Continue all conduits to their final installations into the buildings per plans. Continue all fire conduit to fire sprinkler systems for all fire alarm completion in this package.
3. Continue all site lighting conduits to all lights and light poles.
4. Furnish and install all light poles, bases, templates, bolts, forms, groundings, and concrete to complete the site lighting.
5. Provide installation of final conduit and all connections to pump(s), and irrigation controllers. The site electrical contractor will provide conduit to within 5' of "Coaches switches" locations. This contract will connect and finish conduit and provided and install a housing box per plan, provide receptacle, wiring and all connections for coaches switches controller to plug in to.
6. Furnish and install all wiring. Power, lighting, low voltage, data, Fire. EMS and Irrigation to be provided under those prime packages.
7. Furnish/install/disconnect job site temporary power as required.
8. **Furnish and install temp power cords and connections to the CM office trailer, and the inspector's trailer, from the CM rented generator. (ADDENDA #2)**
9. **Furnish and install temp power from CM rented generator to each building. Install two spider boxes in each building, evenly distributed within the space for maximum accessibility. (ADDENDA #2)**
10. **Furnish and install temp power from CM rented generator to the 480 3-phase irrigation booster pump. (ADDENDA #2)**
11. **See attached Site Plan Sketch at the end of this section for Temp Power Plan for clarification. (ADDENDA #2)**
12. Furnish and install temporary lighting in the main areas of each building equal to a minimum of a continuous temp light stringer the long length of each building, or equal. Connect temp lighting to temp power distribution box, and power, also provided under this package.
13. Furnish and install physical layouts for all deepened foundations at utilities prior to excavation.
14. All excavation spoils to be deposited at one location on site as determined by CM.

15. Furnish and install all sleeves in foundation prior to the installation of reinforcing steel and concrete. Coordinate layout and location with other related bid package trades prior to excavation.
16. Furnish and install all sleeves for work passing through masonry and concrete work. Coordinate with respective bid packages.
17. Provide all backfill of excavations to original subgrade for work included in this bid package.
18. Furnish and install all floor boxes solid for install of slab on grade.
19. Furnish and install drilling of holes for work performed in this bid package.
20. Furnish and install fire stopping and fire caulking of own penetrations for own work.
21. Furnish and install pull strings/rope in all empty or future conduits **for own work. (ADDENDA #2)**
22. Furnish and install all concrete required for installation of vaults, boxes, underground structures for work related to this bid package.
23. Provide conduit path/raceway for reception panic button, and dedicated principals phone if required by the district.
24. Furnish and install all access panels and doors necessary to provide access to work included in this bid package.
25. Furnish and install all required utilities for Owner furnished equipment hook up as required.
26. Furnish and install all rough-in for all equipment of other bid packages as required by the related specification sections and drawings. Connect and or stub as described.
27. Furnish and install all conduit and sleeves for future low voltage and telecommunications wiring. Install fire stopping as required.
28. Furnish and install disconnects and associated supports not provided on factory equipment installed by other bid packages.
29. Furnish and install all supports and bracing required for electrical work except for ceiling hanger wires to lights in new ceilings.
30. Provide connection of "Hanger Wires" to light fixtures, layout of wires will be by this bid package. Connect "Hanger Wires" provided by the Acoustical Bid package to light fixtures, cable trays and projector mounts.
31. Furnish and install watertight closures and sealants at all gang and individual pipe penetration thru exterior walls.
32. Furnish and install all identification and lettering called for in the contract documents related to the work of this bid package.
33. Furnish and install all roof accessories relative to this bid package's work.
34. Furnish and install own floor protection (i.e., Tarps, plastic, plywood, etc.).
35. Furnish and install all clocks and speakers.
36. Furnish and install all power and fire alarm to smoke and fire dampers as called for in the documents.
- ~~37. Adjust all electrical and low voltage boxes in new landscape and concrete areas as needed. (ADDENDA #2)~~
38. Furnish and install all physical layout for your own work.
39. Core penetrations through CMU wall as required for conduit installation.
40. Furnish and install all power requirements for owner supplied equipment **per plans and specs. (ADDENDA #2)**
41. Furnish and install all anchor bolts and templates for light poles and equipment. Form and pour all light pole bases.
42. Furnish and install electrical to HVAC units **per plans and specs. (ADDENDA #2)**
43. Furnish and install protection of all roofing when work under this bid package requires access on the roofing systems.

44. Provide all power testing for own work.
45. Furnish duct detector for fan shut-down and signal to fire alarm system at noted Air Handlers, AC Units, Makeup Air Units and Supply, and exhaust Fans.
46. Furnish and install all lighting and controls as required.
47. Furnish communicating smoke detector unit shutdown at the air handler and furnish and install fire alarm monitoring as noted.
48. Furnish and install all power and low-voltage systems complete except for EMS controls. This includes but is not limited to all buildings and site wiring, cable trays and conduit for power clock and speaker, data, fire alarm, lighting controls, security, etc.
49. Furnish and install all rough in conduit, and power for security and electronic access control **per plans and specs. (ADDENDA #2)**
50. Furnish and install all Unistrut for electrical work and lighting fixture supports. This includes Unistrut for projector support.
51. Furnish and install all chain mounted fixtures complete.
52. Furnish and install all electrical panel mounting complete at roofs except flashing.
53. Furnish and install all electrical required for kitchen hoods complete including hook up.
54. Furnish and install all electrical, data, and fire alarm connections required for the stage elevator including testing.
55. Furnish and install covers at all holes in elevated decks created by your own work in which debris may fall to the level below, per Cal OSHA regulations.
56. Furnish layout and Unistrut as necessary for backing and supports required for pendent light fixtures.
57. Furnish and install all power and fire alarm conduit and wiring complete to rollup doors including connections and testing.
58. Furnish and install all conduit, wiring, and connections for all powered roll up doors.
59. Furnish and install all power to water heaters, recirculating pumps, and thermo switch complete, in collaboration with the plumbing Prime Contractors installations.
60. Furnish and install all projectors, projector mounts. **Clarification: See specification section 01 64 00 for Owner supplied Contractor installed items. This electrical package will be responsible for the installation and programming of the Owner supplied projectors to interface with the AV equipment supplied and installed within this package. (ADDENDA #2)**
61. Furnish and install all required utilities for Owner Furnished Equipment, capped and ready for connection. Make connections as required upon arrival **per plans and specs. (ADDENDA #2)**
62. Furnish and install all roof curbs associated with electrical work.
63. Furnish and install all rough-in for all equipment of other trade as required by the related specification sections and drawings. Connect and or stub as described.
64. Furnish and install all site lighting including bases, poles, and fixtures.
65. Furnish and install data infrastructure, wiring and cabling per plans and specifications.
66. Furnish and install disconnects and associated supports.
67. Furnish and install fire alarm including connection to all fire sprinkler devices.
68. Furnish and install sealant system as required to provide watertight condition at all exterior devices.
69. Furnish, install, and coordinate all conduit and wiring within casework. Coordinate with casework Prime Contractor for chase requirements.
70. Furnish and install all speakers and associated brackets.
71. Provide power and make connections to owner furnished equipment.
72. Provide for any and all electrical testing for modular buildings.

73. Provide low voltage work at modular buildings. including but not limited to, pulling of wire, fire alarm system, security system.
74. Provide Dust Control for own work.
75. This contract will complete all work per the requirements of the Dust Control Plan and SWPPP Plan.
76. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this Project.
77. All excavation spoils to be deposited at one location on site as determined by CM.
78. Furnish and install all sleeves for work passing through masonry and concrete work. Coordinate with respective bid packages.
79. Provide all backfill of excavations to original subgrade for work included in this bid package.
80. Furnish and install drilling of holes for work performed in this bid package.
81. Furnish and install pull strings/rope in all empty or future conduits.
82. Furnish and install all attachment of all equipment related to this scope of work.
83. Furnish and install all identification and lettering called for in the contract documents related to the work of this bid package.
84. Furnish and install all physical layout for your own work.
85. This contract shall be responsible for holes at metal deck for installation of hanger wires for own work.
86. Furnish and install all conduit, wiring, and connections for all powered roll up doors **per plans and specs. (ADDENDA #2)**
87. **Installation of Owner provided television and mount in Building A. (ADDENDA #2)**
88. **Installation of Owner provided laptop charging towers in Buildings B, C, and D. (ADDENDA #2)**



	Spider Boxes for Temp Power
	Temp Fence 4,820 lft
	Possible fence early removal 1,900 lft
	GENERATOR
	TRAILERS

FOB Items

1. Duct Detector Work: These items are provided by Fire Alarm, to be installed by Mechanical Prime Contractors and wired by this contract. Provide additional circuits as needed for mechanical equipment, coordinate with mechanical Prime Contractor.

Installation of FOB Items

Note: Coordinate all deliveries to jobsite with CM. Prime Contractor to Unload, inventory, store and notify CM of any deficiencies for all items delivered to the jobsite FOB.

1. Install all switches for equipment provided by others i.e., coiling doors, fly fans, exhaust fans, etc.
2. Install all Owner furnished Electrical equipment and switches where applicable.

End of Bid package

CES-16 OFF SITE IMPROVEMENTS

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

PG&E drawings and specifications

City of Fresno codes, and requirements for all utility and street improvements.

Refer to additional related specifications sections for work specifically included in this bid package noted below.

Specification Sections

Division 00

Division 01

City Of Fresno Off Site Street Improvement Plans and Specifications

City of Fresno Street Lighting Plans and specifications

City of Fresno Off Site Water Main Improvements Plans and Specifications

City of Fresno Off Site Landscape improvements Plans and Specifications

PG&E Gas and Electrical Off-Site Plans

Section 32 84 00 Landscape Irrigation System (For Backflow Preventor and installation)

Appendix "B" Interior Color Schedule Plus Drawings

Appendix "C" Exterior Color Schedule

Geotechnical Engineering Report

City of Fresno specification for sidewalks, curbs, gutters, drive approaches, asphalt paving, sewer, storm, water, patch backs, etc. for all work associated with the Off-Site Improvements.

General Items

1. See General Notes at the beginning of the Summary of Work Specification Section for other items to be included in this Bid Package.
2. Furnish and install all layout for own work from survey provided. Prime Contractor will be responsible for all additional layout not performed by the survey contractor. Prime Contractors are responsible for protection of all requested survey. Any needed re-staking of already provided points will be subject to deductive change order.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Obtain all permits required to perform the work specified in the bid package. CM will submit the Dust Control plan to the Air Board. Prime Contractor will be responsible for all other permits required to perform the work identified. Prime Contractor will be responsible for dust control for their own work.
5. Provide daily cleanup to keep site clean and orderly.
6. Protect identified improvements to remain on civil plan sheets.
7. Should the Prime Contractor damage and/or otherwise alter work installed under separate contracts, Prime Contractor shall be responsible for the correction/repair of work installed under separate contracts.
8. Prime Contractor is required to attend all coordination meetings as required by CM.
9. Phasing is projected to be as shown on the Bid Schedule. However, the Construction Manager reserves the right to revise the schedule, as necessary.

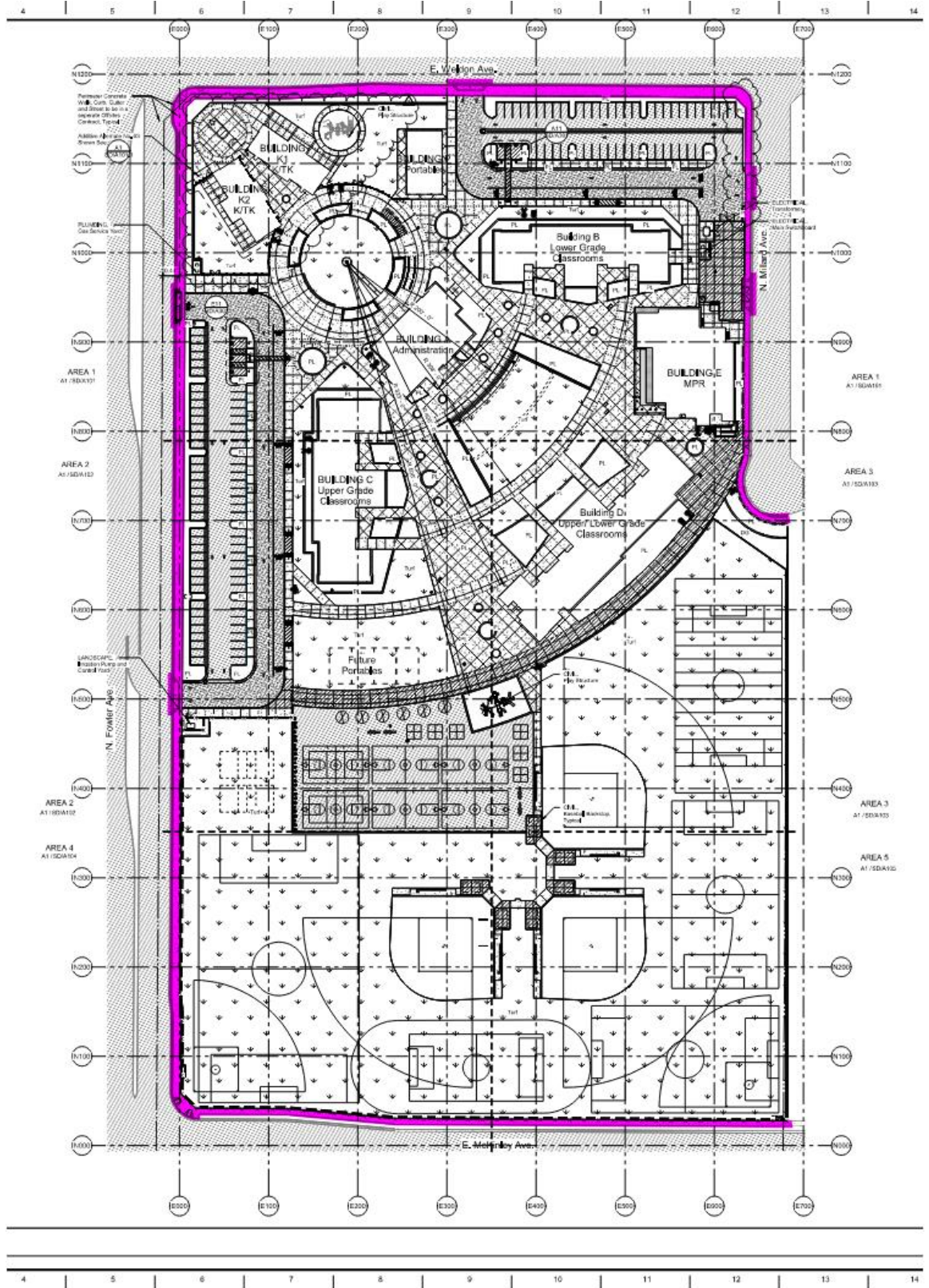
10. Promptly submit written notice to CM of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
11. Provide material, equipment, mobilizations, and manpower to meet Construction Schedule provided in Contract Documents.
12. Each bid package is responsible for dewatering as it pertains to their scope of work.
13. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the Construction Manager.
14. Each Prime Contractor is to provide all equipment and manpower as necessary to offload all materials required to complete their respective scope of work.
15. Monthly pay apps will not be approved if as-builts are not updated monthly.
16. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
17. There will be one wash out area as designated by CM. Bid package will be responsible for removal from the site of all construction debris generated by Prime Contractor's work. Extra spoils to be stockpiled at the direction of CM.
18. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
19. Furnish clean up daily and off-haul of all debris generated by this contract. Prime Contractor must abide by the Waste Management specification. This includes, but is not limited to, providing recycling tags for each haul off removed from the project site.
20. All construction equipment shall meet the requirements of the SJVAPCD ISR Report (Air Impact Assessment- AIA) under the Construction Fleet Summary. This shall include reporting requirements as defined within the Monitoring and Reporting Schedule within the ISR for this project.
21. This contract is to provide temporary power for own work.

Coordination with Other Trades

1. This Prime Contractor will be responsible for the setup of SWPPP BMP's, as shown in the SWPPP plan drawings for all Off-Site work areas including but not limited to, silt fencing, track outs and fiber rolls surrounding existing drain inlets.
2. Allow for two additional mobilizations for movement or relocation of track outs as required during construction.
3. Any survey requests require a minimum of 48-hour notice.
4. Coordinate dimensions with other related Prime Contractors.
5. Coordinate installation of all sleeves for work passing through concrete work with respective Prime Contractors prior to excavation.
6. Review as-builts prior to starting work.

Furnish and install items

1. Furnish and install all off-site improvements for water, sewer, storm. All utilities will be brought on to the site as shown for connection by site utilities contractor, or to the location provided by the site utilities contractor, should that scope of work be installed prior.
2. Furnish and install all Surveying for all Off Site improvements.
3. Furnish and install all back flow and Detector Check Valves for fire and domestic water entering the site.
4. Furnish and install all Off-Site irrigation back flow preventors.
5. Furnish and install all Off-Site Fire Hydrants.
6. Furnish and install all offsite piping and connections for water, sewer, storm, and gas.
7. Furnish and install all gas on to site, ready for meter assembly.
8. Furnish and install all PG&E utilities work per plans.
9. Furnish and install all street lighting, traffic lighting, controls, connections, complete.
10. Furnish and install all trail and lighting complete.
11. Furnish and install all cut, patch back, grading and paving of roadways per Off-Site improvement plans, and for water tie-in along Weldon Ave for Fire Water, including back flow device.
12. Furnish and install all curb, gutter, sidewalks, trail, lighting, per Off-Site drawings, including those shown in the attached highlighted site plan sketch, to help show separation from project Site Concrete Bid Package.
13. Furnish and install all off-site landscape irrigation and planting complete.



SECTION 084113 - FOLDING DOOR SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
1. Provide all material, labor, equipment and services necessary to completely install all Folding Door System materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.
- B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
1. ALL DIVISION 00 SPECIFICATION SECTIONS.
 2. ALL DIVISION 01 SPECIFICATION SECTIONS.
 3. ALL SPECIFICATION SECTIONS IN THE FACILITY CONSTRUCTION SUBGROUP.
 4. ALL SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.

1.2 REFERENCES

- A. Standards:
1. In accordance with the following standards:
 - a. AAMA American Architectural Manufacturers Association
 - b. ASTM American Society for Testing and Materials
 - c. ANSI American National Standards Institute
 - d. CPSC Consumer Product Safety Commission
 - e. NFRC National Fenestration Rating Council

1.3 SYSTEM DESCRIPTION

- A. Performance Requirements: It is the intention of this section and the drawings to form a guide for a complete and operable system. Any items not specifically noted but necessary for a complete and operable system shall be provided under this section.
1. Air infiltration: Provide system with maximum air leakage of 0.30 cfm/sq ft when tested according to ASTM E 283 and NFRC 400 at a static air pressure difference of 1.57 psf and 6.24 psf.
 2. Water Penetration under Static Pressure:
 - a. Provide system with a raised sill (inswing or outswing) that does not evidence water penetration when tested according to ASTM E 331 and ASTM E 547 at a static air pressure difference of 12 psf.
 3. Water Penetration under Dynamic Pressure: Provide system with a raised sill that do not evidence more than allowable water entry when tested according to AAMA 520 and ASTM E 2268 at a dynamic rated air pressure difference of 6-18 psf for an inswing unit (Performance Level 2) and 5-15 psf for an outswing unit (Performance Level 1).
 4. Structural Test Performance:

FOLDING DOOR SYSTEM

2116

- a. Provide system with optional reinforced posts that when tested according to ASTM E 330 at 150 % of positive and negative design pressures with panel sizes of 3' wide and 8' high achieved with an inswing unit with a raised sill DP rating of +70 psf / -100 psf and an outswing unit with a raised sill and inswing/outswing units with saddle sills DP ratings of +/- 70 psf.
5. Forced Entry Resistance: Provide system that when tested according to ASTM F 842 and AAMA 1304 there was no entry.
6. Thermal Performance U factor: Unit to be rated, certified and labeled in accordance with NFRC 100, shown in manufacturer's latest published data for the glazing, sill, and direction of opening specified.
7. Solar Heat Gain Coefficient: Unit to be rated, certified and labeled in accordance with NFRC 200, shown in manufacturer's latest published data for the glazing, sill, and direction of opening specified.

1.4 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:

1. Coordination Drawings:
 - a. Submit installer's coordination drawings indicating the work of this section with that of related work of other sections for proper interface of the completed work. Installer shall coordinate and obtain approvals from the work of other related sections prior to submitting to the Architect.
2. Product Data.
 - a. Submit manufacturer's full color range (including any standard colors) for selection by the Architect.
3. Shop Drawings.
 - a. Submit shop drawings prepared by, or under the supervision of a registered Civil or Structural Engineer in the State of California, detailing fabrication and assembly of the work under this section, as well as procedures and diagrams. Include setting drawings, templates, and directions for installation of anchor bolts and other anchorage to be installed as unit of work of other related sections.
4. Quality Assurance/Control Submittals:
 - a. Test Reports:
 - 1) Submit four (4) copies of testing laboratory's report.
 - b. Certificates:
 - 1) Submit three (3) copies of certificates.
 - c. Manufacturer's Instructions:
 - 1) Submit three (3) copies of manufacturer's instructions.
 - d. Manufacturer's Field Reports:
 - 1) Submit three (3) copies of manufacturer's field reports.
 - e. Engineering Calculations:
 - 1) Submit four (4) copies of engineering calculations computed and signed by a registered Civil or Structural Engineer in the State of California.
5. Closeout Submittals in accordance with the following:
 - a. Maintenance Data in accordance with Specification Section - PROJECT CLOSEOUT.
 - b. Operation Data in accordance with Specification Section - PROJECT CLOSEOUT.
 - c. Record Documents in accordance with Specification Section - RECORD DOCUMENTS.

- d. Warranty in accordance with Specification Section - WARRANTIES.

1.5 QUALITY ASSURANCE

- A. Qualifications:
 1. Installer Qualifications:
 - a. Engage an experienced Installer who has successfully completed three (3) projects of similar scope and size to that indicated for this Project.
 2. Manufacturer/Supplier Qualifications:
 - a. Firm experienced in successfully producing/supplying products similar to that indicated for this Project, with sufficient production/supply capacity to produce/supply required units without causing delay in the work.
- B. Regulatory Requirements:
 1. In accordance with Specification Section - REGULATORY REQUIREMENTS, and the following:
 - a. CARB Materials and equipment used for this Project shall comply with the current applicable regulations of the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA), in the area where the Project is located.
- C. Certificates:
 1. Provide a letter on Contractor's Letterhead certifying work provided meets or exceeds the requirements of this Section.
- D. Meetings:
 1. Progress: Scheduled by the Contactor during the performance of the work.
 - a. Review for proper work progress.
 - b. Identify any problems and acceptable corrective measures.
 - c. Identify any measures to maintain or regain project schedule if necessary.
 2. Completion: Scheduled by the Contactor upon proper completion of the work.
 - a. Inspect and identify any problems.
 - b. Establish method and procedures to maintain protections while progressing to project completion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Packing, shipping, handling, and unloading:
 1. Products shall be handled in such a manner as to assure that they are free from dents, scratches and other damage.
- B. Acceptance at Site:
 1. Products must be in manufacturer's original unopened containers with labels indicating brand name, model, and grade.
 2. Damaged products will not be accepted.
- C. Storage and protection:

FOLDING DOOR SYSTEM

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1. Products shall be stored above ground on level platforms, six (6) inches above ground, allowing air circulation under stacked units.
 - a. Cover materials with protective waterproof covering providing for adequate air circulation and ventilation.

1.7 PROJECT CONDITIONS

A. Existing Conditions:

1. Examine site and compare it with the drawings and specifications. Thoroughly investigate and verify conditions under which the work is to be performed. No allowance will be made for extra work resulting from negligence or failure to be acquainted with all available information concerning conditions necessary to estimate the difficulty or cost of the work.

1.8 WARRANTY

A. Contractor's General Warranty:

1. In accordance with Specification Section - WARRANTIES.

B. Manufacturer's Warranty:

1. In accordance with manufacturer's written standard warranty:
 - a. Warranty Period: Ten years for rollers. For all other components, two years from date of delivery by manufacturer.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products specified are from companies listed below, or approved equivalent. These products listed herein establish the size, pattern, color range and function selected by the Architect for this Project. Manufacturers that are listed as acceptable alternative manufacturers must still comply with the requirements of the products listed in order to be approved as an equivalent during the Submittal Process. If the acceptable alternative manufacturers listed are not approved during the Submittal Process due to non-compliance with the contract documents, then the Contractor shall submit product specified.

1. Specified product manufacturer:
 - a. NANA WALL SYSTEMS, INC. "NanaWall SL70".

- B. Products from other manufacturers not listed must submit in accordance with Specification Section - SUBSTITUTION PROCEDURES.

2.2 MATERIALS

- A. Frame and Panels: From manufacturer's standard profiles, provide head track, side jambs, and panels with dimensions shown on drawings.

1. Provide panels with: Standard one lite.

FOLDING DOOR SYSTEM

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2. Provide standard bottom rail.
 3. Aluminum Extrusion: Extrusions with nominal thickness of .078" (2.0 mm). Alloy specified as AlMgSi0.5 with strength rated as 6063-T5. Anodized conforming to AAMA 611, powder coated conforming to AAMA 2604 or fluoropolymer kynar painted conforming to AAMA 2605.
 4. Thermally broken with 3/4"-15/16" (20-24 mm) polyamide plastic reinforced with glass fibers. Polyamide plastic less than 3/4" (20 mm) wide or pour and de-bridge thermal break will not be accepted.
 5. Aluminum Finish:
 - a. Clear anodized.
 - b. Same finishes on inside and outside.
- B. Glass:
1. All glass to comply with safety glazing requirements of ANSI Z97.1 and CPSC 16CFR 1201. Provide manufacturer's standard glass with dry glazing:
 - a. 15/16" (24 mm) double insulated clear safety
 2. Provide manufacturer's standard silver gray glass spacers. Provide with capillary tubes.
- C. Locking Hardware and Handles:
1. Main entry panel:
 - a. On the main entry panel for models with a pair of swing panels, provide manufacturer's standard lever handles on the inside and outside, a SCHLAGE compatible lock set with lockable latch, multi-point locking with a dead bolt and rods at the top and bottom on primary panel (a seven pin lock can be added when available).
 - 1) Rods to be concealed and not edge mounted.
 - 2) After turn of key or thumbturn, depression of handles withdraws latch.
 - 3) Lifting of handles engages rods and turn of key or thumb turn engages deadbolt and operates lock.
 - 4) On the secondary swing panel, provide matching dummy lever handles on both sides and concealed flush bolts that operates the rods at the top and the bottom for the secondary swing panel.
 - a) Stainless steel lever handles in a brushed satin finish
 2. On all other secondary panels and pairs of folding panels, provide manufacturer's standard handles and concealed two point locking hardware operated by 180 degree turn of handle between each pair.
 - a. Face applied flush bolt locking will not be allowed.
 - b. Standard handle finish:
 - 1) Stainless steel standard handles in a brushed satin finish.
 3. Provide handle height centered at 41 3/8" from bottom of panel.
 4. Aluminum locking rods with standard fiber glass reinforced polyamide end caps at top and bottom. Rods to have a stroke of 15/16" (24 mm).
 5. If there are more than one unit, keyed alike.
- D. Sliding/Folding Hardware: Provide manufacturer's standard combination sliding and folding hardware with top, bottom tracks and threshold. All running carriages to be with sealed, self-lubrication, ball bearing multi-rollers. Surface mounted hinges and running carriages will not be allowed. Weight of panels to be borne by the bottom of the guide channel in the sill will not be allowed.

FOLDING DOOR SYSTEM**2116**

1. Provide upper guide carriage and lower running carriage with four vertical stainless steel wheels and two horizontal polyamide wheels. The vertical wheels to ride on top of stainless steel guide track covers over the full length of the sill track and lie above the water run-off level. Carrying capacity of lower running carriage to be 440 lbs (200 kgs). Wheels riding below the water run-off level and/or wheels riding on aluminum surfaces will not be allowed.
2. Threshold:
 - a. Clear anodized low profile saddle sill.
3. Hinges: Zinc die cast with finish closest match to finish of frame and panels.
 - a. Provide stainless steel security hinge pins with set screws.
4. Adjustment: Provide folding/sliding hardware capable of specified amount of compensation and adjustments without needing to remove panels from tracks, in width, 1/16" (1.5 mm) per hinge and in height, 1/16" (2 mm) up and down.
5. Weather stripping: Provide manufacturer's standard double layer EPDM, Q-Ion gasket or brush seals with a two layer fiber glass reinforced polyamide fin at both the inner and outer edge of door panels or on frame for sealing between panels and between panel and frame. Single layer weather stripping will not be allowed.
 - a. Provide tapered pins or stainless steel screws for connecting frame components.

2.3 FABRICATION

- A. Use extruded aluminum frame and panel profiles, corner connectors and hinges, sliding and folding hardware, locking hardware and handles, glass and glazing and weather stripping as specified herein to make a folding glass wall. Factory pre-assemble as is standard for manufacturer and ship with all components and installation instructions.
- B. Sizes and Configurations:
 1. See drawings for selected custom dimensions within maximum frame sizes possible as indicated in manufacturer's literature.
 2. Configuration: Outward o5L4R.
 - a. On configurations with a pair of swing panels, looking from inside, primary swing panel on the left

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. Site verification of conditions:
 1. Prior to the execution of the work under this specification section, inspect the installed work executed under other sections of this Project Manual that affects the execution of work under this specification section.
 2. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
 3. Examine surfaces of openings and verify dimensions; verify rough openings are level, plumb, and square, with no unevenness, bowing, or bumps on the floor.
 4. Installation of units constitutes acceptance of existing conditions.

3.2 PREPARATION

A. Coordination:

1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.

B. Protection:

1. Protect all adjacent surfaces from drips, spray, air pollution of surrounding environment, and other damage from work under this specification section.

C. Surface preparation:

1. Prepare surface in accordance with manufacturer's instructions and recommendations.
2. Clean substrates of substances (oil, grease, rolling compounds, incompatible primers, loose mill scale, etc.) which could impair bond of materials specified within this section.

3.3 INSTALLATION

A. General:

1. In accordance with manufacturer's written instructions and recommendations unless specifically noted otherwise.
2. In accordance with approved submittals.
3. In accordance with Regulatory Requirements.
4. Set plumb, level, and square.
5. Install frame in accordance manufacturer's recommendations and installation instructions.
6. Properly flash and waterproof around the perimeter of the opening.

3.4 CLEANING

A. Clean in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.

1. Clean any soiled surfaces immediately.
2. In accordance with manufacturer's instructions and recommendations.

3.5 PROTECTION

A. Protection from traffic:

1. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, which ensures the work of this section being without damage or deterioration until the time of Substantial Completion.

END OF SECTION

SECTION 11 61 43 - STAGE CURTAINS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Stage curtain systems.
2. Curtain track.
3. Curtain rigging.

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:

1. DIVISION 00 SPECIFICATION SECTIONS.
2. DIVISION 01 SPECIFICATION SECTIONS.
3. 05 12 00 STEEL AND FABRICATIONS
4. 06 10 00 ROUGH CARPENTRY
5. 09 29 00 GYPSUM BOARD
6. 10 05 00 MISCELLANEOUS SPECIALTIES
7. SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.

1.2 REFERENCES

A. Standards:

1. In accordance with the following standards:
 - a. ASTM American Society for Testing and Materials
 - b. NFPA National Fire Protection Association

1.3 MEETINGS

A. Pre-Installation:

1. Coordinate the work with other work being performed.
2. Identify potential problems that could affect progress.
3. Review load limitations of existing structure.
4. Review areas requiring protection where existing construction is to remain.

B. Progress:

1. Review for proper work progress.
2. Identify problems and propose corrective measures.
3. Identify measures to maintain or regain project schedule if necessary.

C. Completion:

1. Identify problems and propose solutions.
2. Establish method and procedures to maintain protections while progressing to project completion.

1.4 SUBMITTALS

- A. Submit in accordance with specification section – SUBMITTAL PROCEDURES:
1. Product Data:
 - a. Tracks: Capability of each track to support the weight and operation of curtains that it supports.
 2. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.
 - a. Include plans, elevations, sections, and attachment details of curtains.
 - b. Include fabric assembly and hanging details.
 - c. Dimension operating clearances.
 - d. Include documentation of capacity of each batten, track, attachment, and rigging component to support loads.
 - e. Points of attachment for proscenium curtain and the corresponding static and dynamic loads imposed on structure.
 - f. Locations of equipment components, switches, and controls. Differentiate between manufacturer-installed and field-installed wiring.
- B. Samples for Verification: Full width by minimum 12-inch-long section of each fabric from dye lot to be used for the Work, with specified treatments applied. Show complete pattern repeat. Mark top and face of fabric.
- C. Coordination Drawings: Reflected ceiling plans and other details, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
1. Structural members to which tracks, and other stage-curtain equipment will be attached.
 2. Locations of lighting fixtures and cabling, ductwork, piping, and sprinklers.
 3. Rigging equipment for stage equipment.
 4. Access panels.
- D. Qualification Data: For Installer.
- E. Product Certificates: For the following, from manufacturer:
1. Fabric: Provide name of flame-retardant chemical used, identification of applicator, treatment method, application date, allowable life span for treatment, and details of any restrictions and limitations.
 2. Rigging: Compliance of suspended tracks with requirements.
- F. Sample Warranty: For manufacturer's special warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For stage curtains and rigging to include in operation and maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Qualifications:
1. Manufacturer Qualifications: A manufacturer capable of fabricating products that meet or exceed performance requirements indicated and of documenting this performance by inclusion in lists and by labels, test reports, and calculations without causing delay in the work.
 2. Fabricator Qualifications: Shop that participates in a recognized quality-assurance program, complies with quality-control procedures, and involves third-party inspection by an independent testing and inspecting agency acceptable to Architect and authorities having jurisdiction.
 3. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project. Completed five (5) projects of similar scope and size to that indicated for this project.
- B. Certifications:
1. Provide a letter on Contractor's Letterhead certifying work provided meets or exceeds specified requirements.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Acceptance Requirements:
1. Products shall be individually wrapped in manufacturer's original containers and clearly marked for size and installation location.
 2. Curtains shall be protected from snagging, soil, and other damage. In the event that Curtains suffer damage, the fabricator shall clean, repair or replace at no additional expense.
 3. Curtains shall be delivered free of loose threads or lint. Curtains shall be delivered with horizontal creases neatly folded.
 4. Damaged products will not be accepted.
 5. Products shall not be delivered to the project site until the area is ready for installation.
- B. Storage and Handling Requirements:
1. Products shall be handled in such a manner as to assure that they are free from damage.
 2. Products shall be stored in a dry, protected area.
 3. Cover materials with protective waterproof covering providing for adequate air circulation and ventilation.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Do not install stage curtains until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work at and above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Verify locations of supporting structural elements and construction contiguous with stage curtains and rigging by field measurements before fabrication and indicate measurements on Shop Drawings.

1.9 WARRANTY

- A. Manufacturer's Special Warranty: Manufacturer agrees to repair or replace components of stage-curtain systems that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Two (2) Years.
- B. Installer's Warranty: In accordance with the terms of the Specification Section - WARRANTIES:
 - 1. Warranty Period: Two (2) Years.

PART 2 - PRODUCTS

2.1 STAGE-CURTAIN SYSTEMS

- A. Description: Complete stage-curtain systems, including stage curtains, tracks, draw-curtain machines, and rigging; with necessary accessories for support and operation.
- B. Source Limitations: Obtain stage-curtain systems from single manufacturer. Obtain each color, grade, finish, type, and variety of fabric from single source with resources to provide materials of consistent quality in appearance and physical properties.

2.2 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: Provide stage curtains meeting the following requirements as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. Flame-Propagation Resistance: Passes NFPA 701.
 - a. Permanently attach label to each fabric of curtain assembly indicating whether fabric is inherently and permanently flame resistant or is treated with flame-retardant chemicals and whether it requires retreatment after cleaning or after a designated time period of use.
 - b. Permanently attach 12-inch-square swatch of same fabric and dye lot for each fabric of a curtain assembly to the back of assembly for use as fire-resistance test strip.

2.3 CURTAIN FABRIC

- A. Specified product manufacturer, or approved equivalent subject to compliance with requirements:
 - 1. KM Fabrics, Inc.; Prestige (CAFM #GA-0358.01).
- B. General: Provide fabrics inherently and permanently flame resistant or chemically flame resistant by immersion treatment according to performance requirements indicated. Provide fabrics of each type and color from same dye lot.

- C. Polyester Velour: Napped fabric of 100 percent polyester weighing not less than 22 oz./linear yd., with pile height approximately 75 mils; inherently and permanently flame resistant; 54-inch minimum width.
- D. Colors: As selected by Architect from manufacturer's full range.
- E. Cotton Lining: Yarn-dyed denim cloth of 100 percent cotton; woven in a warp-faced twill; 54-inch minimum width; color as selected by Architect from manufacturer's full range.

2.4 CURTAIN FABRICATION

- A. General: Affix permanent label, stating compliance with requirements of authorities having jurisdiction, in accessible location on fabric not visible to audience. Provide vertical seams unless otherwise indicated. Arrange vertical seams so they do not fall on faces of pleats. Do not use fabric cuts less than one-half width.
- B. Vertical and Top Hems: Machine sew hems as follows unless otherwise indicated:
 - 1. Vertical Hems: Minimum 2 inches wide, with not less than a 1-inch tuck and with no selvage material visible from front of curtain. Sew open ends of hems closed.
 - 2. Turnbacks: Provide leading- and trailing-edge turnbacks for traveler curtains, formed by folding back not less than 12 inches of face fabric, with not less than a 1-inch tuck, and vertically secured by sewing.
 - 3. Top Hems: Reinforced by double-stitching 3-1/2-inch-wide, heavy, jute webbing to top edge on back side of curtain with not less than 2 inches of face fabric turned under.
- C. Fullness:
 - 1. 50 Percent Fullness: Provide fullness, exclusive of turnbacks and hems, by sewing additional material into 3-inch double-stitched, flat, box pleats spaced at 12 inches o.c. along top hem reinforcement.
- D. Grommets: Brass, No. 3.
 - 1. Pleated Curtains: Center grommets on each box pleat and place 1 inch from corner of curtain; for snap hooks or S-hooks.
- E. Bottom Hems: Machine sew hems as follows unless otherwise indicated:
 - 1. For curtains that do not hang to the floor, provide hems not less than 3 inches deep with 3/4-inch weight tape.
 - 2. For floor-length curtains, provide hems not less than 6 inches deep with 1-inch weight tape. Sew open ends of hems closed.
- F. Lining: Where indicated, provide lining for curtain in same fullness as face fabric and finished 2 inches shorter than face fabric. Sew or otherwise securely attach lining to top hem of face fabric. Attach lining to face fabric along bottom and side seams with 4-inch-long strips of heavy woven cotton tape. Sew lining to bottom edge of curtain allowing sufficient lining fabric for tucking to prevent shrinkage.

2.5 CURTAIN TRACK

- A. Specified product manufacturer:
 - 1. H & H Specialties Inc.; 200 series.
 - a. Acceptable alternative manufacturer, subject to compliance with requirements:
 - 1) Automatic Devices Company; Besteel 100 series.
- B. Track System: Intermediate duty track system including all necessary components for a complete operating track system for the project conditions.
 - 1. Track: 1-3/4 inch wide by 2 inches high, 16 gage channel shaped galvanized steel track with continuous bottom slot and semi-gloss black powder coat finish. Furnish track in un-spliced lengths where possible.
 - 2. Single End Pulley: 4-inch diameter nylatron sheave with shielded ball-bearings in a steel housing.
 - 3. Double End Pulley: Pair of 4-inch diameter nylatron sheaves with shielded ball- bearings in a steel housing.
 - 4. Floor Block: Adjustable 4-inch diameter nylatron sheave with shielded ball- bearings in a steel housing, 9-inch vertical adjustment.
 - 5. Curtain Carriers: Nylon body with 2 polyethylene wheels with shielded ball bearings riveted to body; heavy duty hook, swivel, and trim chain for curtain attachment; 1 rubber bumper per carrier. Provide curtain carriers spaced at 12 inches o.c. along track.
 - 6. Master Carriers: Steel body with 4 polyethylene wheels with shielded ball bearings riveted to body; heavy duty hook, swivel, and trim chain for curtain attachment; 1 rubber bumper per carrier. Provide one master carrier, for each leading curtain edge.
 - 7. End Stops: Steel clamp with eyebolt to support operating line and prevent over travel of curtain carriers.
 - 8. Operating Line: 3/8-inch stretch-resistant operating cord consisting of black polyester jacket braided over aramid core.
 - 9. Overlap Clamp: Pair of formed steel clamps to align tracks at overlap.
 - 10. Clamp Hanger: Formed steel clamp brackets for suspending track from chain hangers.
 - 11. Center Support: Formed steel bracket for supporting tracks at overlap.

2.6 CURTAIN RIGGING

- A. S-Hooks: Manufacturer's standard heavy-duty plated-wire hooks, not less than 2 inches long.
- B. Supports, Clamps, and Anchors: Sheet steel in manufacturer's standard thicknesses, galvanized after fabrication according to ASTM A 153/A 153M, Class B.
- C. Inserts, Bolts, Rivets, and Fasteners: Manufacturer's standard corrosion-resistant units.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for supporting members, blocking, installation tolerances, clearances, and other conditions affecting performance of stage-curtain work.

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- B. Examine inserts, clips, blocking, or other supports required to be installed by others to support tracks and battens.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Install stage-curtain system according to curtain and track manufacturer's written instructions.

3.3 TRACK INSTALLATION

- A. Ceiling-Mounted Track: Drill track at intervals not greater than manufacturer's written instructions for spacing, and fasten directly to structure.
- B. Install track for center-parting curtains with not less than 24-inch overlap of track sections at center, supported by track lap clamps.

3.4 CURTAIN INSTALLATION

- A. Track Hung: Secure curtains to track carriers with track manufacturer's S-hooks.

END OF SECTION

SECTION 11 68 13 – PLAY EQUIPMENT

PART 1 - GENERAL

1.1 DESCRIPTION

A. Work Included in this section:

1. Installation of play court furnishings and equipment as specified herein and as indicated on the construction drawings.

1.2 RELATED SECTIONS

- A. Section 32 31 13 - Chain Link Fencing
- B. Section 32 12 16 - Asphaltic-Concrete Paving

PART 2 - PRODUCTS

2.1 MATERIALS:

A. Play Field and Court Equipment

1. Basketball Backboards

- a. L.A. Steelcraft Products, Inc., Model 01, extra heavy unit with 5-9/16" O.D. Galvanized Post and 6' offset, 1/4" thick steel fan shaped backboard with white powder coat finish and No. SD 4 "Hercules" goal and net on each backboard. The single backboard shall be Model 1256X and Model 12056X for double backboards.

2. Volleyball Posts

- a. L.A. Steelcraft Products, Inc., Model VBP25-BG with Model NRG-25 net tighteners and 2 7/8" O.D. Galvanized Post.

3. Volleyball Nets

- a. L.A. Steelcraft Products, Inc., Model NVC-32

4. Volleyball Ground Sleeves

- a. L.A. Steelcraft Products, Inc., Model 278-E, with compression cover.

5. Tetherball and Post

- a. L.A. Steelcraft Model No. TBPC and Ground Sleeve Model No. 238-E.

6. Playstructures

- a. Playcraft Systems Structure #'s R35CEB77A and RH5A1279A or approved equal. Install per manufacturer's recommendations. Structures to comply with 2016 CBC 11B-1008.

PART 3 - EXECUTION

3.1 COORDINATION OF WORK

A. Fence Post Footings

1. Fence post footings within the paved play court area may be set one of two ways. If posts are installed prior to paving operations, the top of the concrete footings shall be 2" below the proposed finished asphalt surface and shall receive a 2" asphalt overlay.
2. If posts are installed subsequent to play court paving operations, the following conditions must be met:
 - a. Fence post holes must be drilled so as to provide a clean hole with a smooth circular outline at the paved surface.
 - b. The top of the concrete footing shall be troweled smooth and shall be flush with the finished asphalt surface.

END OF SECTION

R
Q
P
N
M
L
K
J

Interior Finish Schedule- Building E

Table with columns: Room Number, Room Name, Floor Finishes, Base Finishes, Wall Finishes, Ceiling Finishes, Miscellaneous Finishes, Remarks. Includes rooms 100-201.

Interior Finish Schedule- Building K1

Table with columns: Room Number, Room Name, Floor Finishes, Base Finishes, Wall Finishes, Ceiling Finishes, Miscellaneous Finishes, Remarks. Includes rooms 101-119.

DSA File No.: 10-48
Agency Approval
ABBREVIATIONS
Interior Paint Finishes:
NOTES
REMARKS

J1 Interior Finish Schedule- Building E
No Scale Refer to H18 for Abbreviations, Notes and Remarks

J9 Interior Finish Schedule- Building K1
No Scale Refer to H18 for Abbreviations, Notes and Remarks

Interior Finish Schedule- Building K2 (Add Alternate #1)

Table with columns: Room Number, Room Name, Floor Finishes, Base Finishes, Wall Finishes, Ceiling Finishes, Miscellaneous Finishes, Remarks. Includes rooms 103-118.

Interior Finish Schedule- Building P

Table with columns: Room Number, Room Name, Floor Finishes, Base Finishes, Wall Finishes, Ceiling Finishes, Miscellaneous Finishes, Remarks. Includes rooms 100-105.

H18 Interior Finish Schedule Legend
McKinley/Fowler Elementary School- Increment 2
TYPICAL INFORMATION
INTERIOR FINISH SCHEDULE- BUILDING E, K1, K2 & P
Drawing
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
Architect
Revision table with columns: No., Revision/Submission, Date

A1 Interior Finish Schedule- Building K2 (Add Alternate #1)
No Scale Refer to H18 for Abbreviations, Notes and Remarks

A9 Interior Finish Schedule- Building P
No Scale Refer to H18 for Abbreviations, Notes and Remarks

Scale: 1/8" = 1'-0" Drawn By: Author
Project Number: 2116 Checked IChecker
Date: 02/15/23 Reviewer/Approver
X/A202

Building	Room No.	Group No.	Description	Catalog No.	No Req'd	Length	Height	Depth	Remarks
E	100	a 100	Custom Proscenium	Custom	1				
E	105	a 105	Tall Storage Cabinet	400	6	4'-0"	7'-0"	2'-0"	
E	105	b 105	Tall Storage Cabinet	402	6	4'-0"	7'-0"	2'-0"	
E	112	a 112	Base Cabinet w/ Drawers	101	1	1'-2"	2'-8 1/2"	2'-0"	
E	112	a 112	Base Cabinet w/ ADA Plumbing Cover	153M	1	3'-0"	2'-8 1/2"	2'-0"	
E	112	a 112	Base Cabinet w/ Drawers	230	1	1'-3"	2'-8 1/2"	2'-0"	
E	112	a 112	Tall Storage Cabinet	402	1	3'-10"	7'-0"	2'-0"	
E	112	a 112	Tall Storage Cabinet	402	1	4'-0"	7'-0"	2'-0"	
E	112	a 112	Counter Top		1		2'-10"	2'-1"	
E	112	b 112	Tall Storage Cabinet	402	1	2'-6"	7'-0"	2'-0"	
E	112	c 112	Tall Storage Cabinet	402	1	2'-2"	7'-0"	2'-0"	
E	112	c 112	Tall Storage Cabinet	402	2	4'-0"	7'-0"	2'-0"	
E	112	d 112	Base Cabinet w/ Drawers	102	2	2'-6"	2'-8 1/2"	2'-0"	
E	112	d 112	Base Cabinet w/ Drawers	176	1	4'-3"	2'-8 1/2"	2'-0"	
E	113	a 113	Solid Surface Window Sill	Custom	1	4'-0"	1 1/4"	4 5/8"	2
E	124	a 124	Solid Surface Window Sill	Custom	2	4'-0"	1 1/4"	4 1/4"	2
E	124	b 124	Base Cabinet w/ ADA Plumbing Cover	153M	1	3'-0"	2'-8 1/2"	2'-0"	
E	124	b 124	Base Cabinet w/ Drawers	222	1	3'-0"	2'-8 1/2"	2'-0"	
E	124	b 124	Base Cabinet w/ Drawers	230	1	2'-0"	2'-8 1/2"	2'-0"	
E	124	b 124	Wall Hung Cabinet	301	1	2'-0"	2'-2"	1'-4"	
E	124	b 124	Wall Hung Cabinet	302	1	3'-0"	1'-2"	1'-4"	
E	124	b 124	Wall Hung Cabinet	302	2	3'-0"	2'-2"	1'-4"	
E	124	b 124	Counter Top		1		2'-10"	2'-1"	
E	124	c 124	Solid Surface Window Sill	Custom	1	4'-0"	1 1/4"	4 5/8"	2

Building	Room No.	Group No.	Description	Catalog No.	No Req'd	Length	Height	Depth	Remarks
K1		b 102	Counter Top		1		2'-10"	2'-0"	
K1		a 101	Solid Surface Window Sill	Custom	2	4'-0"	1 1/4"	1'-6 7/8"	2
K1	101	b 101	Base Cabinet Open	110	1	3'-3"	2'-5 1/2"	1'-10"	
K1	101	b 101	Base Cabinet Open	110	6	3'-3"	3'-7"	1'-10"	
K1	101	b 101	Counter Top		3		2'-10"	2'-0"	
K1	101	b 101	Counter Top		3		2'-10"	2'-0"	
K1	101	c 101	Solid Surface Window Sill	Custom	2	8'-0"	1 1/4"	4 1/4"	2
K1	101	c 101	Base Cabinet w/ Drawers	222	2	3'-6"	2'-8 1/2"	1'-11"	
K1	101	c 101	Wall Hung Cabinet	302	2	3'-0"	1'-6"	1'-4"	
K1	101	c 101	Wall Hung Cabinet	302	1	3'-6"	1'-6"	1'-4"	
K1	101	c 101	Tall Storage Cabinet	402	2	4'-0"	7'-0"	2'-0"	
K1	101	c 101	Counter Top		1		2'-10"	2'-0"	
K1	101	d 101	Base Cabinet w/o Drawers	102	2	4'-0"	1'-10 1/2"	2'-0"	
K1	101	d 101	Base Cabinet w/o Drawers	152	1	4'-0"	1'-10 1/2"	1'-11"	1
K1	101	d 101	Counter Top		1		2'-10"	2'-0"	
K1	102	a 102	Base Cabinet w/ Drawers	222	2	3'-6"	2'-8 1/2"	1'-11"	
K1	102	a 102	Wall Hung Cabinet	302	2	3'-0"	1'-6"	1'-4"	
K1	102	a 102	Wall Hung Cabinet	302	1	3'-6"	1'-6"	1'-4"	
K1	102	a 102	Tall Storage Cabinet	402	2	4'-0"	7'-0"	2'-0"	
K1	102	a 102	Counter Top		1		2'-10"	2'-0"	
K1	102	b 102	Base Cabinet Open	110	1	3'-3"	2'-5 1/2"	1'-10"	
K1	102	b 102	Base Cabinet Open	110	6	3'-3"	3'-7"	1'-10"	
K1	102	b 102	Counter Top		2		2'-10"	2'-0"	
K1	102	b 102	Solid Surface Window Sill	Custom	2	8'-0"	1 1/4"	4 1/4"	2
K1	102	c 102	Solid Surface Window Sill	Custom	2	4'-0"	1 1/4"	1'-11"	2
K1	102	d 102	Base Cabinet w/o Drawers	102	2	4'-0"	1'-10 1/2"	2'-0"	
K1	102	d 102	Base Cabinet w/o Drawers	152	1	4'-0"	1'-10 1/2"	1'-11"	1
K1	102	d 102	Counter Top		1		2'-10"	2'-0"	
K1	112	a 112	Base Cabinet w/ Drawers	223	2	1'-6"	2'-4 1/2"	1'-11"	
K1	112	a 112	Base Cabinet w/ Drawers	230	3	1'-3"	2'-4 1/2"	1'-11"	
K1	112	a 112	Counter Top		1		2'-10"	2'-0"	
K1	112	b 112	Base Cabinet w/ Drawers	223	2	1'-6"	2'-4 1/2"	1'-11"	
K1	112	b 112	Base Cabinet w/ Drawers	230	2	1'-3"	2'-4 1/2"	1'-11"	
K1	112	b 112	Counter Top		1		2'-10"	2'-0"	
K1	112	c 112	Base Cabinet w/ Drawers	222	2	2'-9"	2'-8 1/2"	1'-11"	
K1	112	c 112	Base Cabinet w/ Drawers	230	2	1'-3"	2'-8 1/2"	1'-11"	
K1	112	c 112	Wall Hung Cabinet	302	6	2'-6"	2'-2"	1'-4"	
K1	112	c 112	Wall Hung Cabinet	302	1	3'-4"	1'-0"	1'-4"	
K1	112	c 112	Counter Top		2		2'-10"	2'-0"	
K1	112	d 112	Base Cabinet w/ Drawers	222	4	4'-0"	2'-8 1/2"	1'-11"	
K1	112	d 112	Counter Top		1		2'-10"	4'-0"	
K1	113	a 113	Base Cabinet w/ Drawers	222	6	3'-0"	2'-8 1/2"	1'-11"	
K1	113	a 113	Wall Hung Cabinet	302	6	3'-0"	2'-2"	1'-4"	
K1	113	a 113	Counter Top		1		2'-10"	2'-0"	
K1	113	b 113	Tall Storage Cabinet	402	4	3'-0"	7'-0"	1'-11"	

J1 Modular Casework Schedule- Building E
No Scale Refer to H18 for Notes and Remarks

J9 Modular Casework Schedule- Building K1
No Scale Refer to H18 for Notes and Remarks

Building	Room No.	Group No.	Description	Catalog No.	No Req'd	Length	Height	Depth	Remarks
K2	103	a 103	Base Cabinet w/ Drawers	222	2	3'-6"	2'-8 1/2"	1'-11"	
K2	103	a 103	Wall Hung Cabinet	302	2	3'-0"	1'-6"	1'-4"	
K2	103	a 103	Wall Hung Cabinet	302	1	3'-6"	1'-6"	1'-4"	
K2	103	a 103	Tall Storage Cabinet	402	2	4'-0"	7'-0"	2'-0"	
K2	103	a 103	Counter Top		1		2'-10"	2'-0"	
K2	103	b 103	Base Cabinet w/o Drawers	102	2	4'-0"	1'-10 1/2"	2'-0"	
K2	103	b 103	Base Cabinet w/o Drawers	152	1	4'-0"	1'-10 1/2"	1'-11"	1
K2	103	b 103	Counter Top		1		2'-10"	2'-0"	
K2	103	c 103	Solid Surface Window Sill	Custom	2	4'-0"	1 1/4"		2
K2	103	d 103	Base Cabinet Open	110	4	3'-3"	2'-5 1/2"	1'-10"	
K2	103	d 103	Base Cabinet Open	110	2	3'-3"	3'-7"	1'-10"	
K2	103	d 103	Counter Top		2		2'-10"	2'-0"	6
K2	103	d 103	Solid Surface Window Sill	Custom	2		1 1/4"	4 1/4"	2
K2	104	a 104	Solid Surface Window Sill	Custom	2	4'-0"	1 1/4"		2
K2	104	b 104	Base Cabinet w/o Drawers	102	2	4'-0"	1'-10 1/2"	2'-0"	
K2	104	b 104	Base Cabinet w/o Drawers	152	1	4'-0"	1'-10 1/2"	1'-11"	1
K2	104	b 104	Tall Storage Cabinet	402	2	4'-0"	7'-0"	2'-0"	
K2	104	b 104	Counter Top		1		2'-10"	2'-0"	
K2	104	c 104	Base Cabinet w/ Drawers	222	2	3'-6"	2'-8 1/2"	1'-11"	
K2	104	c 104	Wall Hung Cabinet	302	2	3'-0"	1'-6"	1'-4"	
K2	104	c 104	Wall Hung Cabinet	302	1	3'-6"	1'-6"	1'-4"	
K2	104	c 104	Counter Top		1		2'-10"	2'-0"	
K2	104	d 104	Base Cabinet Open	110	4	3'-3"	2'-5 1/2"	1'-10"	
K2	104	d 104	Base Cabinet Open	110	2	3'-3"	3'-7"	1'-10"	
K2	104	d 104	Counter Top		2		2'-10"	2'-0"	6
K2	104	d 104	Solid Surface Window Sill	Custom	2		1 1/4"	4 1/4"	2
K2	107	a 107	Base Cabinet w/ Drawers	223	2	1'-6"	2'-4 1/2"	1'-11"	
K2	107	a 107	Base Cabinet w/ Drawers	230	3	1'-3"	2'-4 1/2"	1'-11"	
K2	107	a 107	Counter Top		1		2'-10"	2'-0"	
K2	107	b 107	Base Cabinet w/ Drawers	223	2	1'-6"	2'-4 1/2"	1'-11"	
K2	107	b 107	Base Cabinet w/ Drawers	230	2	1'-3"	2'-4 1/2"	1'-11"	
K2	107	b 107	Counter Top		1		2'-10"	2'-0"	
K2	107	c 107	Base Cabinet w/ Drawers	222	2	2'-9"	2'-8 1/2"	1'-11"	
K2	107	c 107	Base Cabinet w/ Drawers	230	2	1'-3"	2'-8 1/2"	1'-11"	
K2	107	c 107	Wall Hung Cabinet	302	6	2'-6"	2'-2"	1'-4"	
K2	107	c 107	Wall Hung Cabinet	302	1	3'-4"	1'-0"	1'-4"	
K2	107	c 107	Counter Top		2		2'-10"	2'-0"	
K2	107	d 107	Base Cabinet w/ Drawers	222	4	4'-0"	2'-8 1/2"	1'-11"	
K2	107	d 107	Counter Top		1		2'-10"	4'-0"	
K2	108	a 108	Base Cabinet w/ Drawers	222	6	3'-0"	2'-8 1/2"	1'-11"	
K2	108	a 108	Wall Hung Cabinet	302	6	3'-0"	2'-2"	1'-4"	
K2	108	a 108	Counter Top		1		2'-10"	2'-0"	
K2	108	b 108	Tall Storage Cabinet	402	4	3'-0"	7'-0"	1'-11"	

A1 Modular Casework Schedule- Building K2 (Add Alternate #1)
No Scale Refer to H18 for Notes and Remarks

Building	Room No.	Group No.	Description	Catalog No.	No Req'd	Length	Height	Depth	Remarks
P	100	a 100	Base Cabinet w/ Drawers	222	2	3'-0"	2'-8 1/2"	2'-0"	
P	100	a 100	Tall Storage Cabinet	402	4	3'-0"	7'-0"	2'-0"	
P	100	a 100	Counter Top		1		2'-10"	2'-1"	
P	100	b 100	Base Cabinet w/ ADA Plumbing Cover	153M	1	4'-0"	2'-8 1/2"	2'-0"	
P	100	b 100	Base Cabinet w/ ADA Plumbing Cover	153M	1	4'-0"	2'-0"	2'-0"	
P	100	b 100	Wall Hung Cabinet	302	2	4'-0"	2'-2"	1'-2"	
P	100	b 100	Counter Top		2		2'-10"	2'-1"	
P	103	a 101	Base Cabinet w/ ADA Plumbing Cover	153M	1	4'-0"	2'-8 1/2"	2'-0"	
P	103	a 101	Base Cabinet w/ ADA Plumbing Cover	153M	1	4'-0"	2'-0"	2'-0"	
P	103	a 101	Wall Hung Cabinet	302	2	4'-0"	2'-2"	1'-2"	
P	103	a 101	Counter Top		2		2'-10"	2'-1"	
P	103	b 101	Base Cabinet w/ Drawers	222	2	3'-0"	2'-8 1/2"	2'-0"	
P	103	b 101	Tall Storage Cabinet	402	4	3'-0"	7'-0"	2'-0"	
P	103	b 101	Counter Top		1		2'-10"	2'-1"	

A9 Modular Casework Schedule- Building P
No Scale Refer to H18 for Notes and Remarks

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

TYPICAL NOTES

- This schedule is provided for the convenience of the contractor. Field verify all conditions and dimensions prior any fabrication.
- Schedule dimensions shall be considered nominal.
- See Sheet X/A310 for modular casework attachment and details.
- All details, materials, and finishes shall be considered typical for all similar conditions unless noted otherwise.
- W.I. Number cabinet designs with suffix "M" shall be modified as indicated or detailed.
- Provide all filler pieces, scribe strips, flush panels and closures, matching modular casework, required to complete casework assemblies and close the finish surfaces.
- Provide cabinet door and drawer locks at all cabinets unless noted otherwise.
- All base cabinets, counters and desks shall have countertops constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 11 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.
P = premium grade
E = economy grade
C = custom grade
- All cabinets shall be constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 10 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.
- All countertops shall be have 6" integral self covered Back and End Sillashes, unless noted otherwise. Refer to interior elevations for splash heights which may vary in height. Align splashes with other materials, if shown to be aligned.
- Base cabinet counter heights shall not exceed 34" in height, unless otherwise noted for undercounter equipment which requires at 36" counter height. In the event the interior elevations or cabinet schedule indicate a 36" counter height, the actual height shall be verified prior to and fabrication.
- See MODULAR CASEWORK specification for shelves, typical.

REMARKS

- MODULAR CASEWORK, Base Cabinet w/ ADA Plumbing Cover, see detail E3 X/A310 Refer to Opening Schedule. See detail.
- Confirm Depth and Width of Solid Surface Window Sill with window prior to fabrication. Refer to Opening Schedule. See detail J1 X/A311, J4 X/A311, J11 X/A311.
- MODULAR CASEWORK, Solid Surface Bench Cap and Window Sill, see detail N4 X/A310.
- MODULAR CASEWORK, Counter top to have minimum 4 grommet holes, confirm with owner prior to work.
- MODULAR CASEWORK, Mobile Bookcase, see detail A11 X/A315.
- MODULAR CASEWORK, Counter top to have no back or end splashes.
- MODULAR CASEWORK, Island, see detail A11 X/A315.
- MODULAR CASEWORK, Custom Reception Desk, see detail A1-X/A312 and A1-X/A313.
- MODULAR CASEWORK, Custom Circulation Desk, see detail A1-X/A314.
- MODULAR CASEWORK, Custom Reading Nook, see detail K1-X/A316.
- MODULAR CASEWORK, Custom Reading Bench, see detail A1-X/A315.
- MODULAR CASEWORK, Counter top to be 4" tall.
- MODULAR CASEWORK, Counter top to be Stainless Steel.
- MODULAR CASEWORK, Custom Proscenium, see detail A1-X/A316.

F18 MODULAR CASEWORK, Notes
No Scale

McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
Fresno, CA 93727 Project

TYPICAL INFORMATION
MODULAR CASEWORK SCHEDULE- BUILDING E, K & P
Drawing

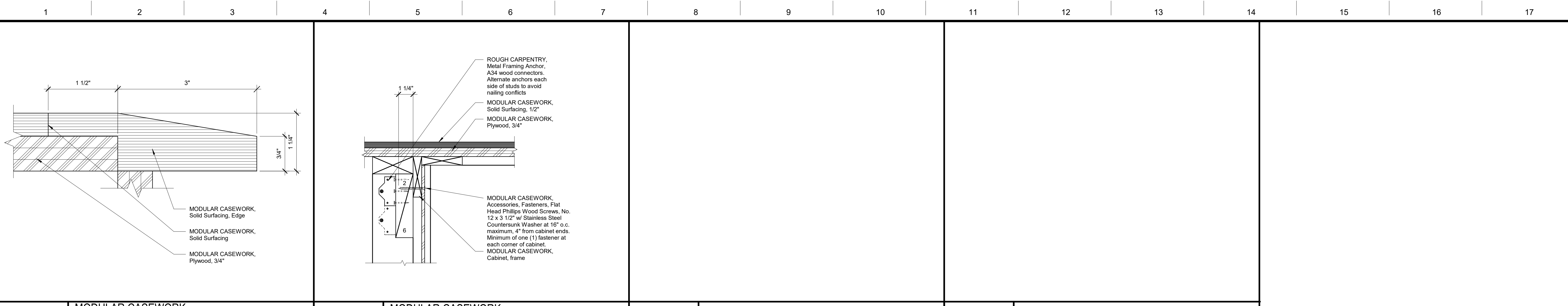
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Architect

No.	Revision/Submission	Date
2	Addendum 2	07/24/23

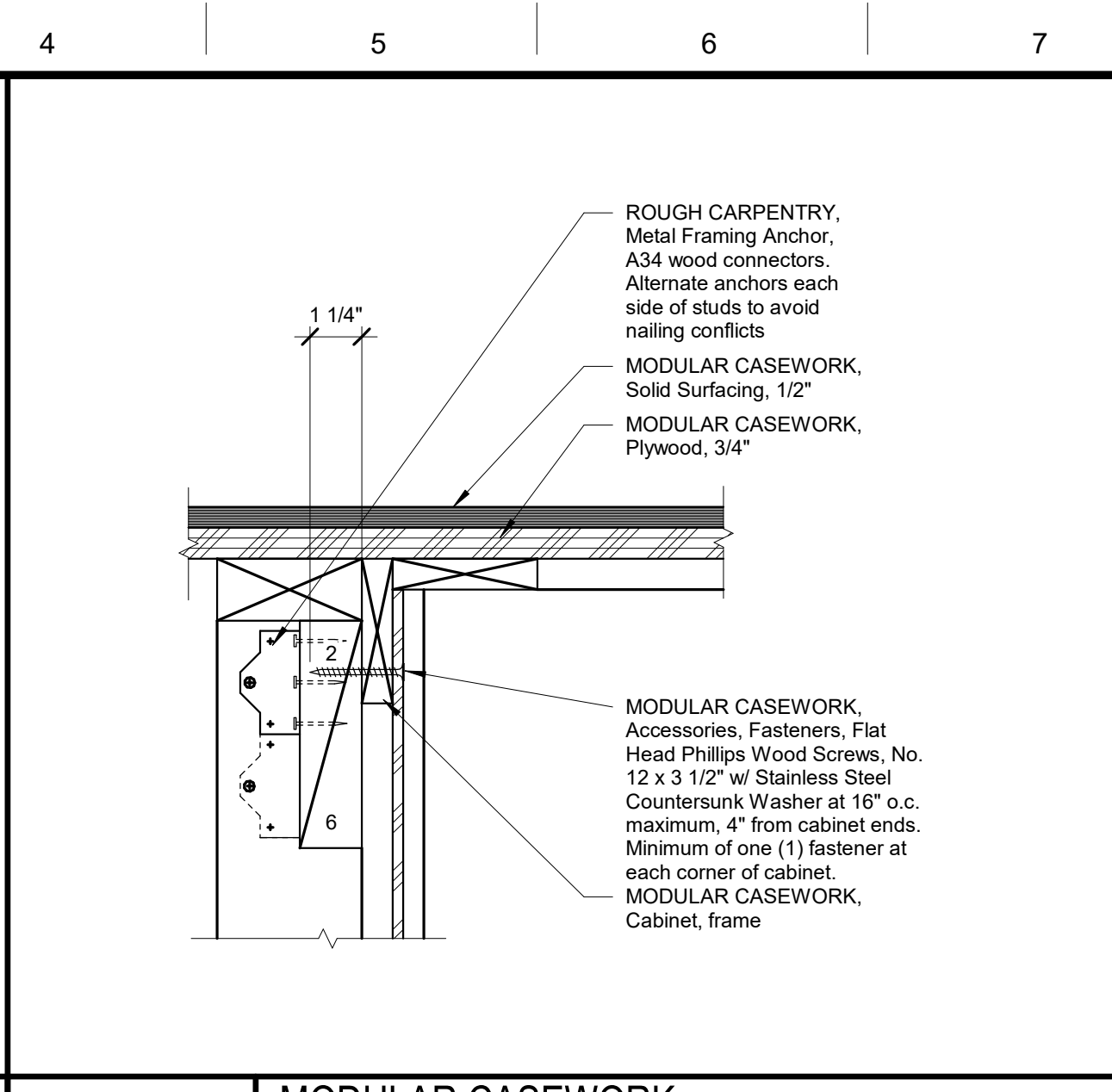
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Checked IChecker: X/A304
Reviewed Approver: X/A304

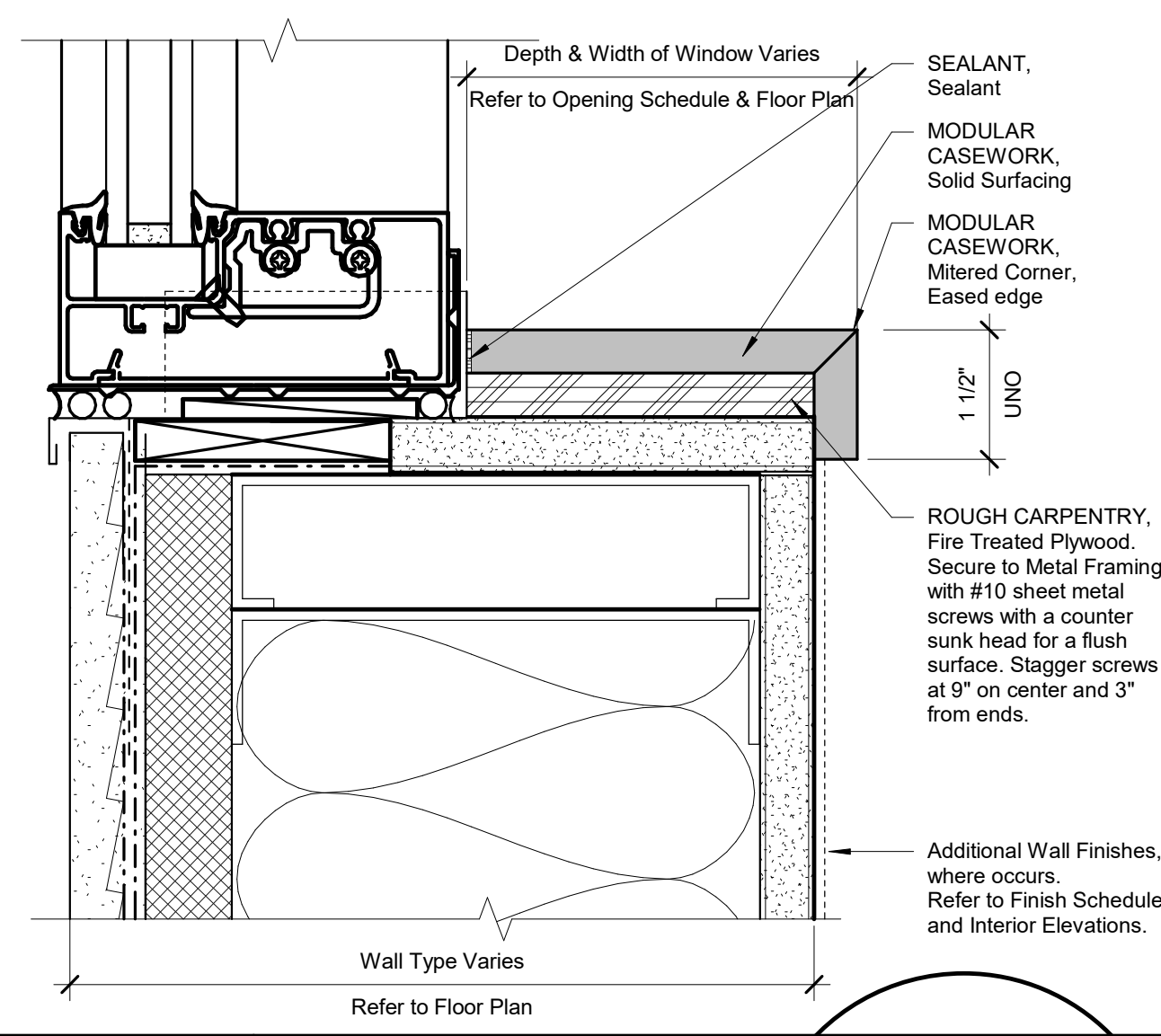
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Project Number: 2116 Checked IChecker



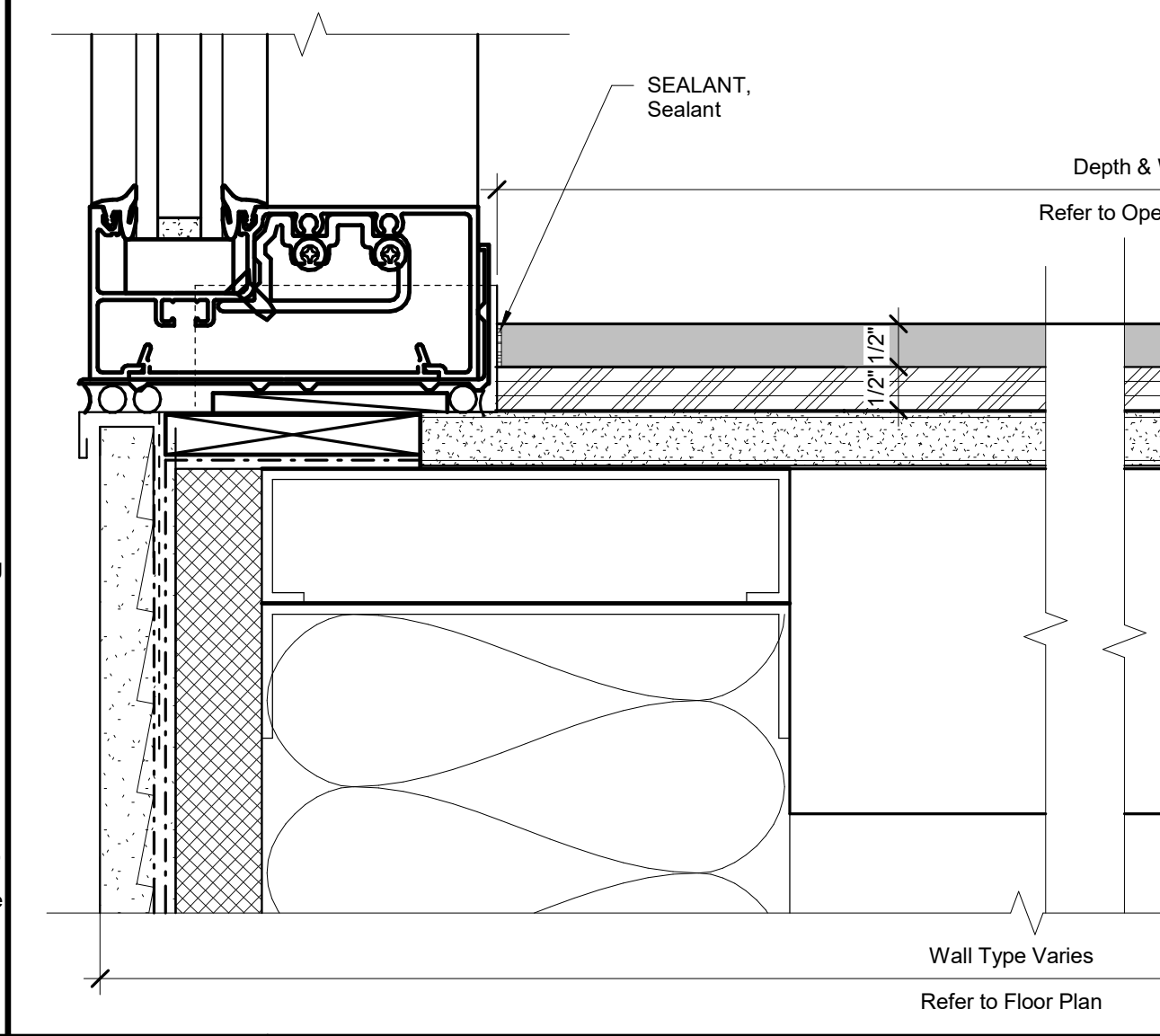
N1 MODULAR CASEWORK, Solid Surface Edge
1 1/2" = 1'-0"



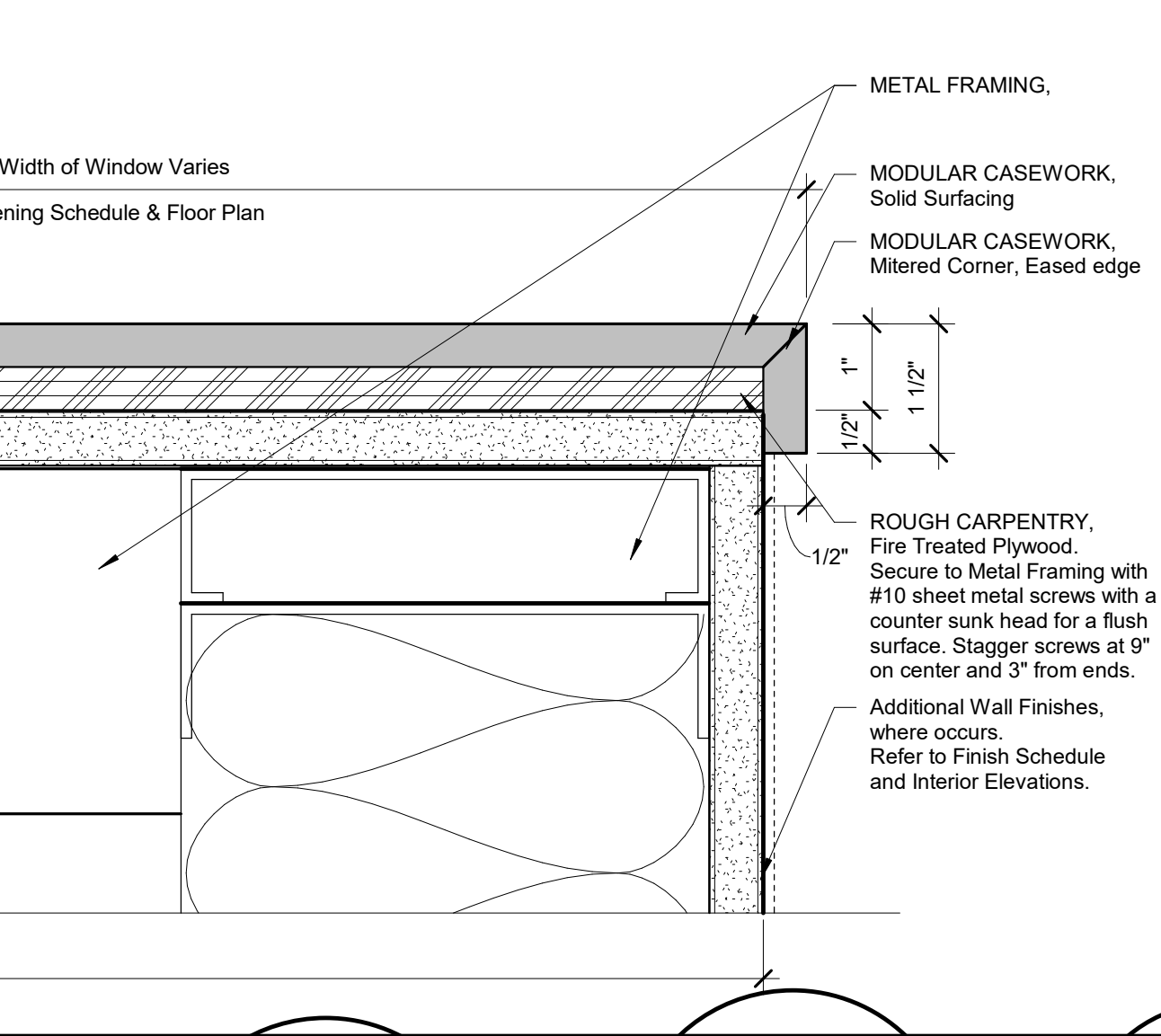
N4 MODULAR CASEWORK, Base Cabinet Anchorage
3" = 1'-0"



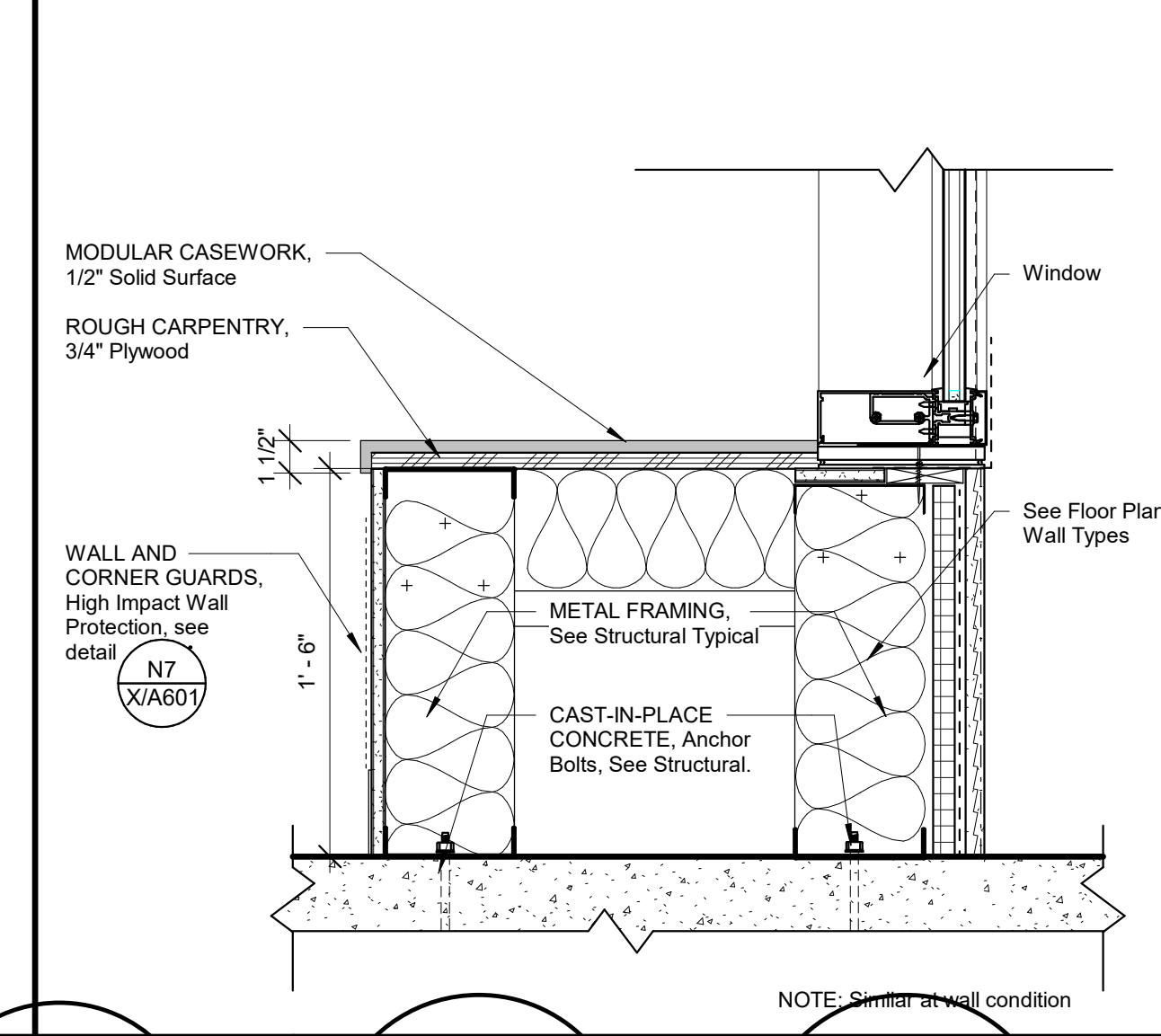
J1 MODULAR CASEWORK, Solid Surfacing Sill
6" = 1'-0"



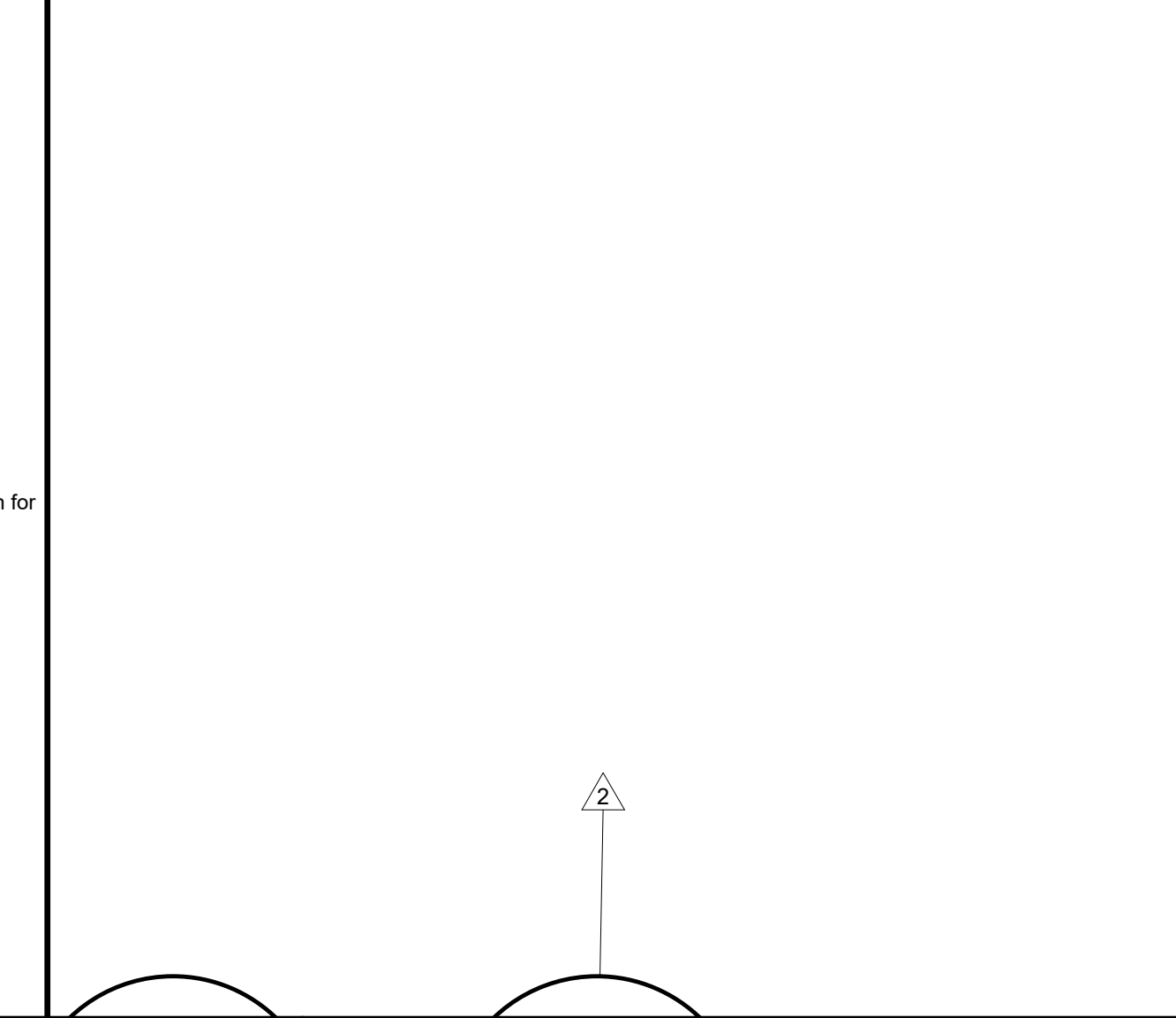
J4 MODULAR CASEWORK, Solid Surfacing Sill at Double Stud Wall
6" = 1'-0"



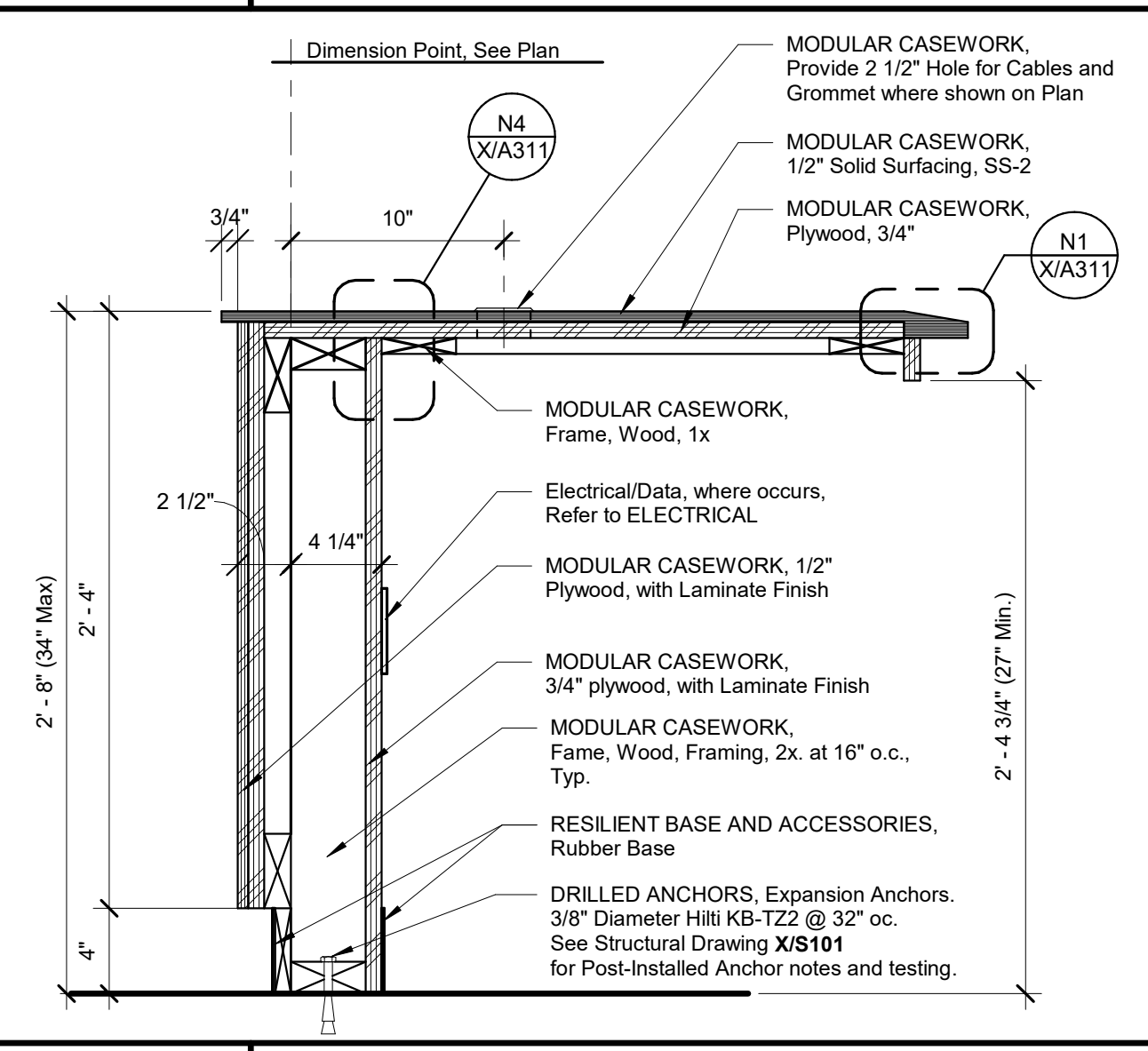
J11 MODULAR CASEWORK, Solid Surface Bench Cap and Sill
1 1/2" = 1'-0"



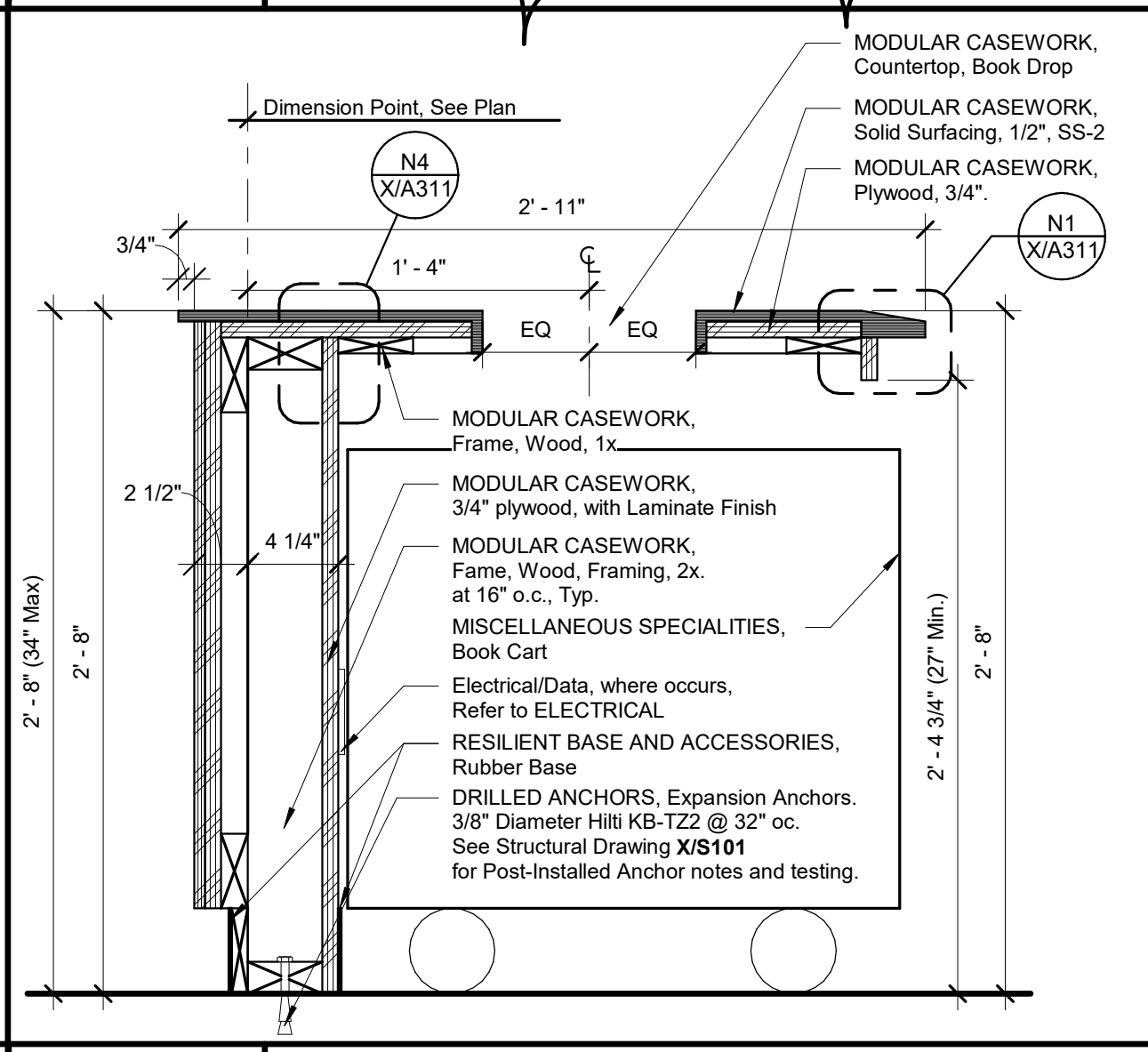
E1 MODULAR CASEWORK, Detail, Knee Space
1 1/2" = 1'-0"



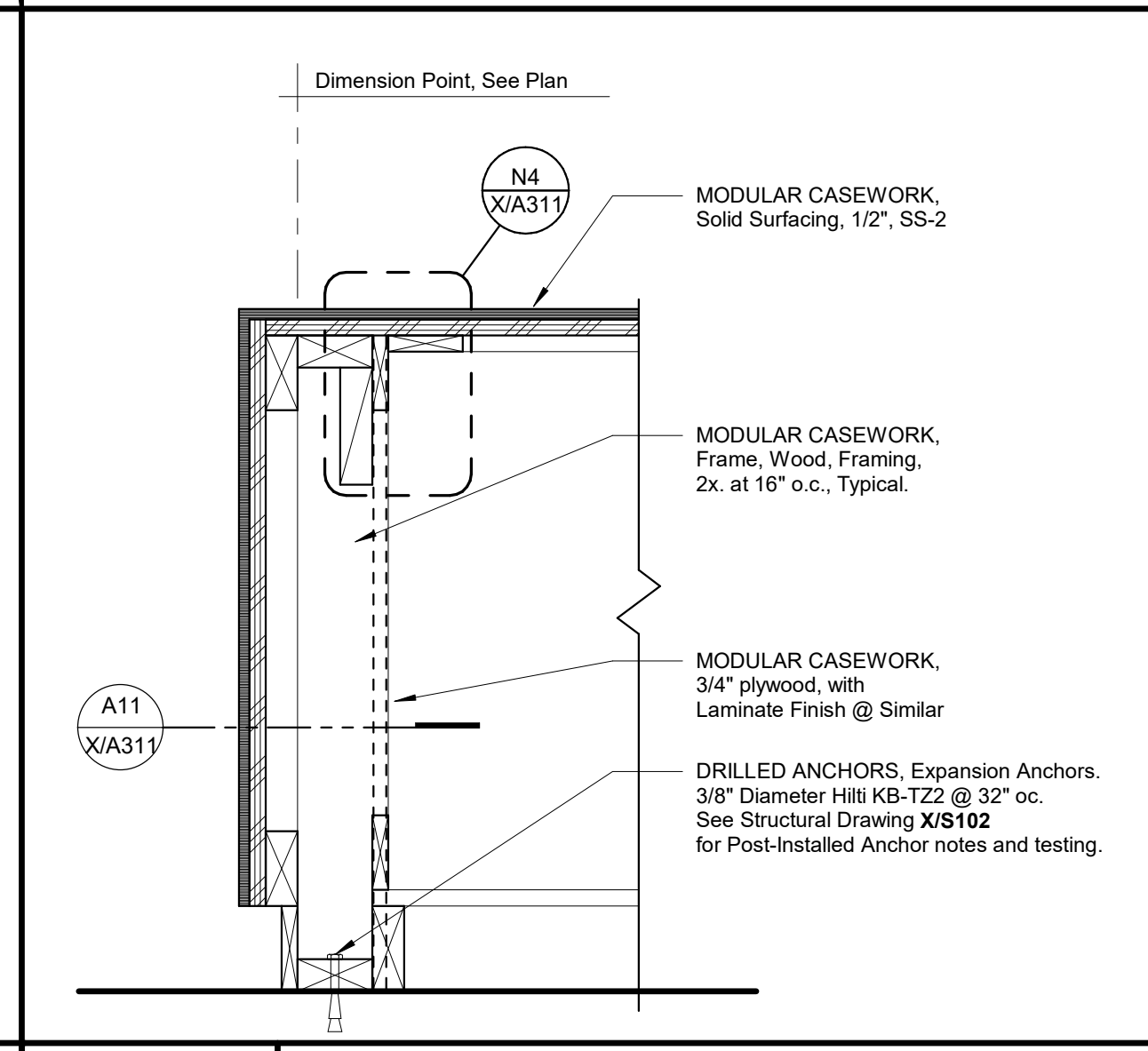
E4 MODULAR CASEWORK, Detail, Knee Space
1 1/2" = 1'-0"



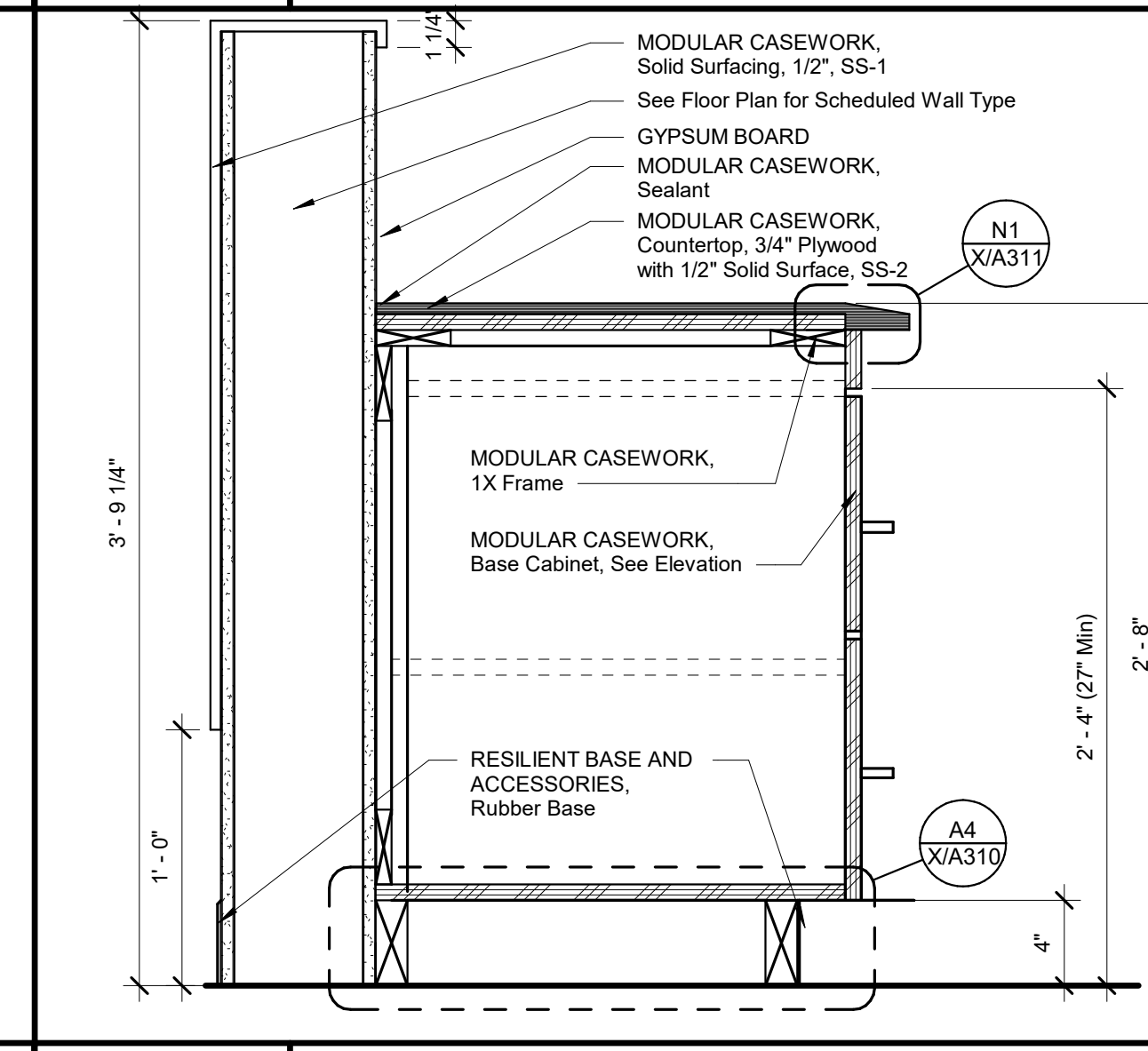
E7 MODULAR CASEWORK, Detail
1 1/2" = 1'-0"



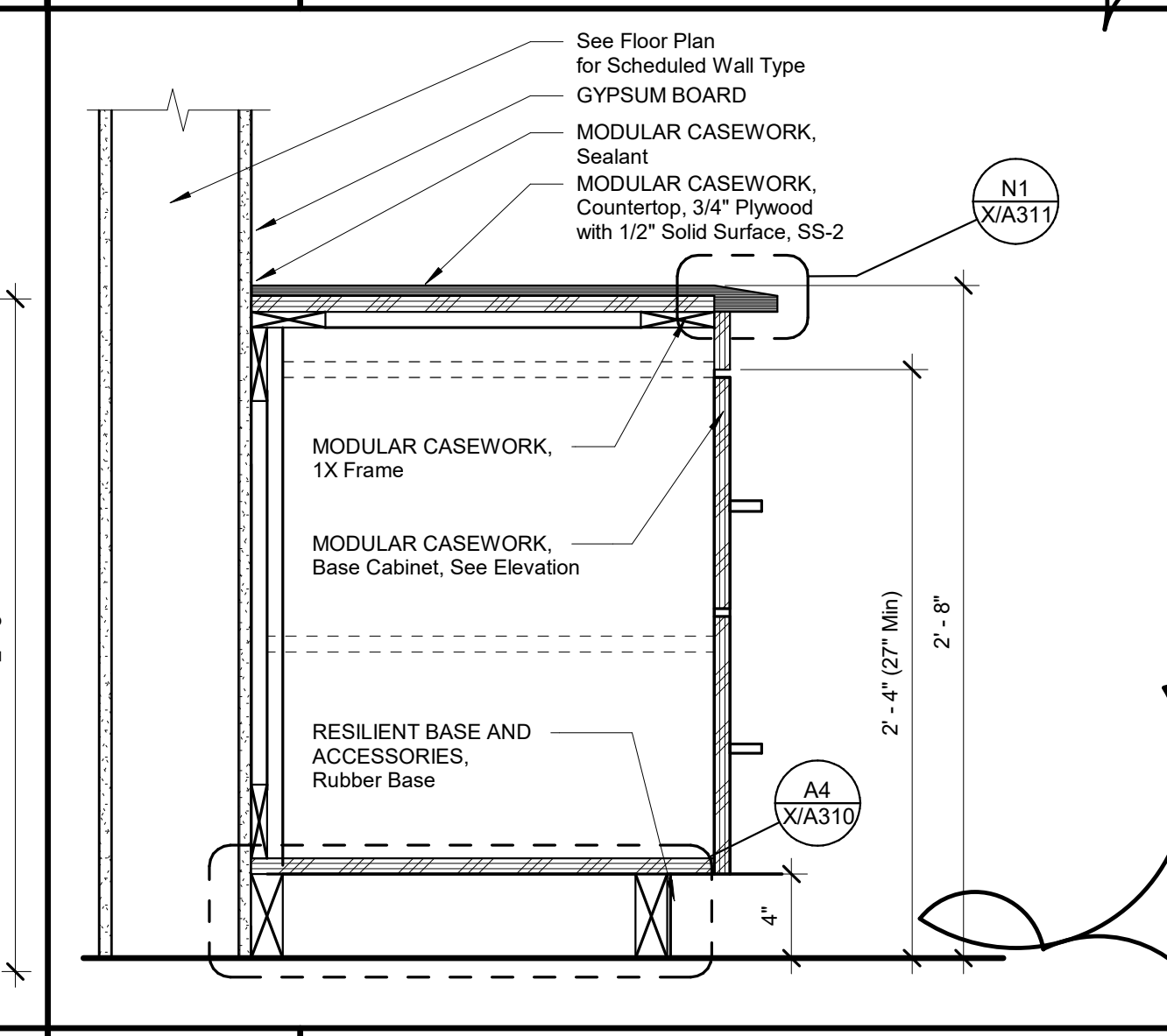
E11 MODULAR CASEWORK, Detail, Base Cabinet
1 1/2" = 1'-0"



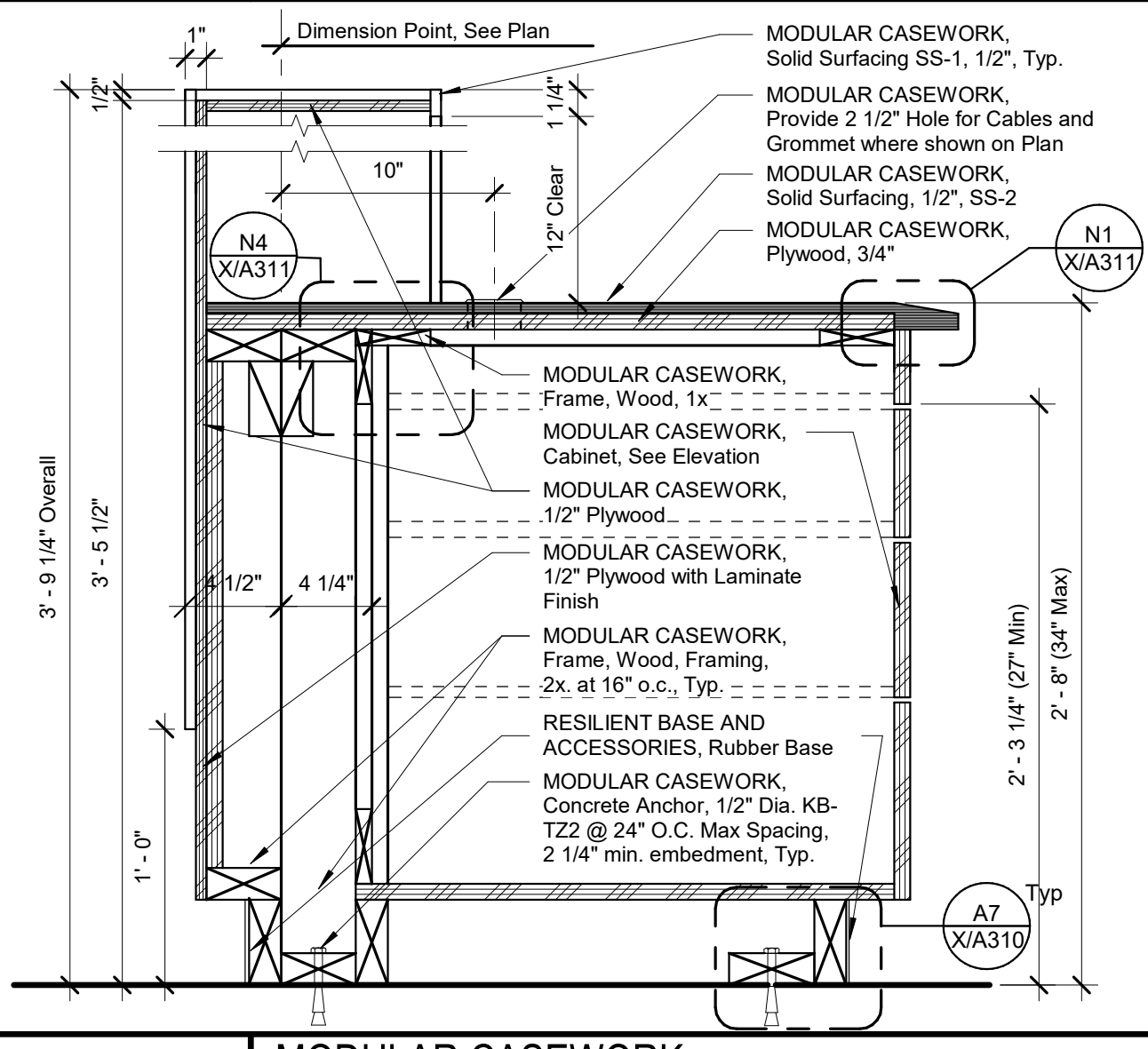
E14 MODULAR CASEWORK, Detail, Base Cabinet
1 1/2" = 1'-0"



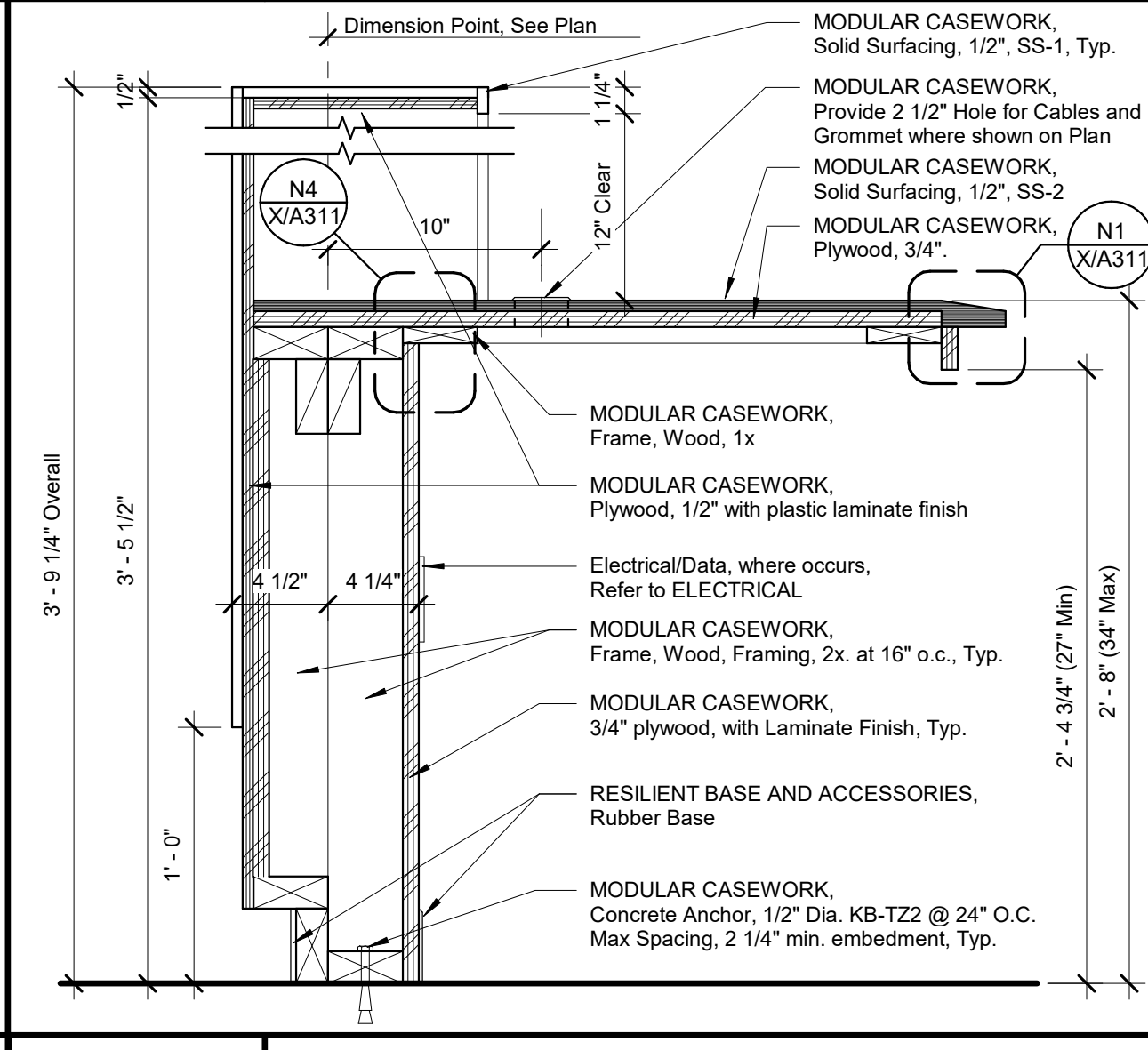
A1 MODULAR CASEWORK, Detail, Base Cabinet
1 1/2" = 1'-0"



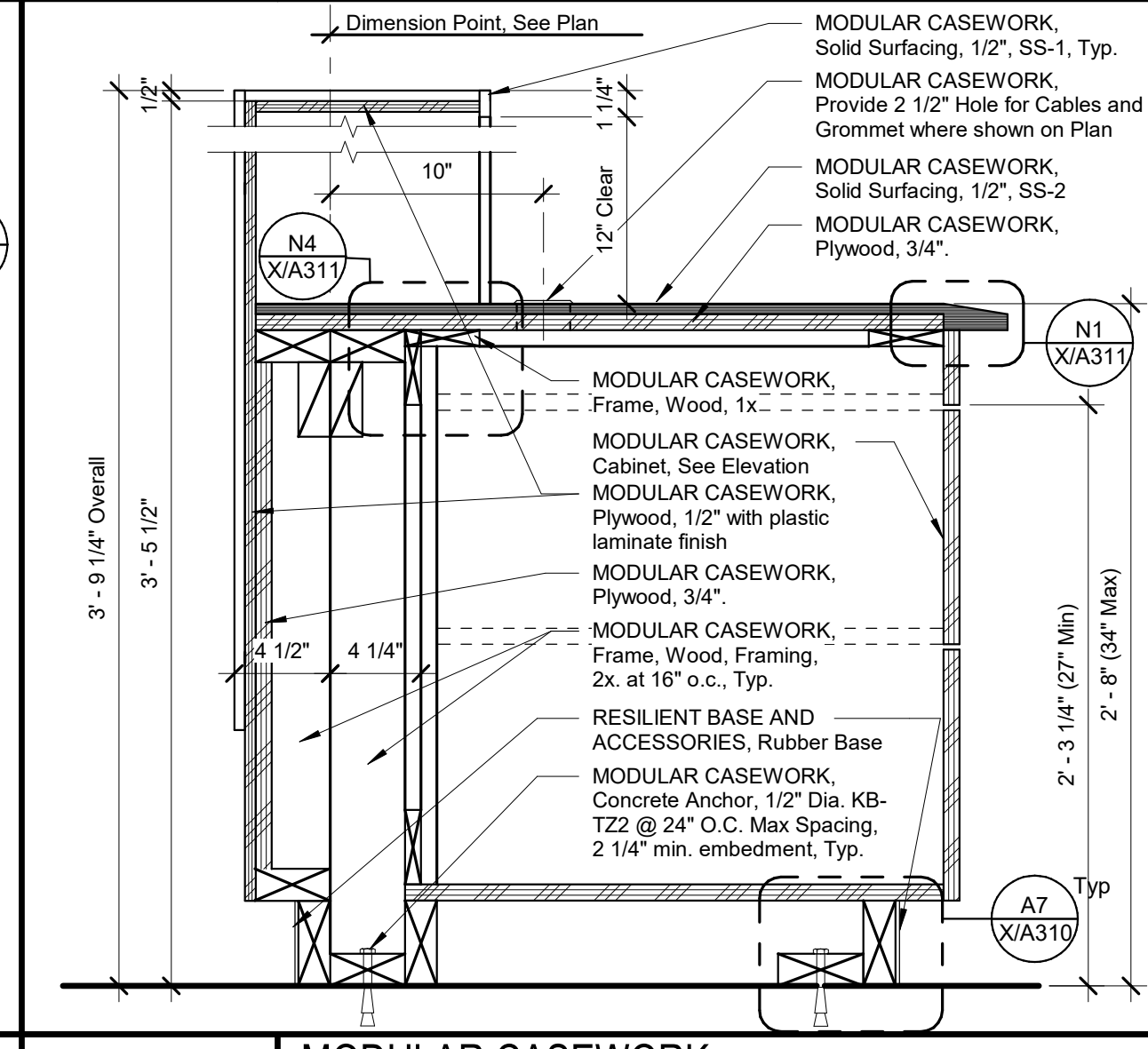
A4 MODULAR CASEWORK, Detail, Knee Space
1 1/2" = 1'-0"



A7 MODULAR CASEWORK, Detail, Base Cabinet
1 1/2" = 1'-0"



A11 MODULAR CASEWORK, Detail
1 1/2" = 1'-0"



A14 MODULAR CASEWORK, Detail, Base Cabinet
1 1/2" = 1'-0"

DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval
 NOTES
 1. WALL ASSEMBLY: Refer to Floor Plans, Typical Wall Assembly Schedule and Special Wall Assembly Schedule for wall depth and wall materials.
 2. WALL FINISHES: Refer to Interior Elevations and Interior Finish Schedules for the Wall Material Finishes and Additional Wall Coverings.
 3. FLOOR MATERIAL: Refer to Floor Plans and Interior Finish Schedules for the actual floor material to be installed.
 4. METAL FRAMING: Where Backing is indicated, Provide Backing per N14 X/A601
 5. Refer to MODULAR CASEWORK Schedule.

N18 MODULAR CASEWORK, Detail Notes
 No Scale

McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District
 Fresno, CA 93727
 Project
 TYPICAL INFORMATION
 CUSTOM CASEWORK DETAILS
 Drawing

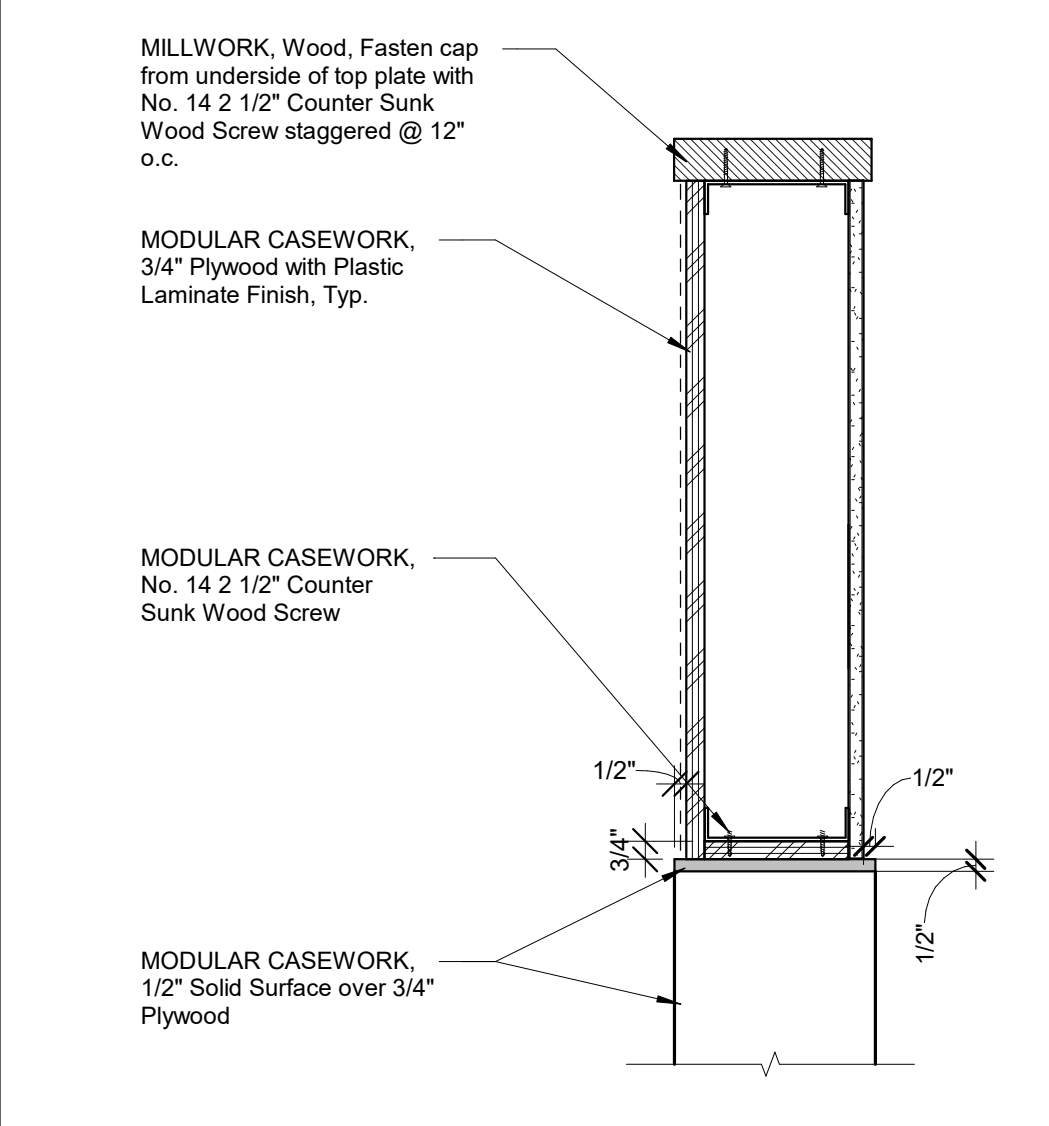
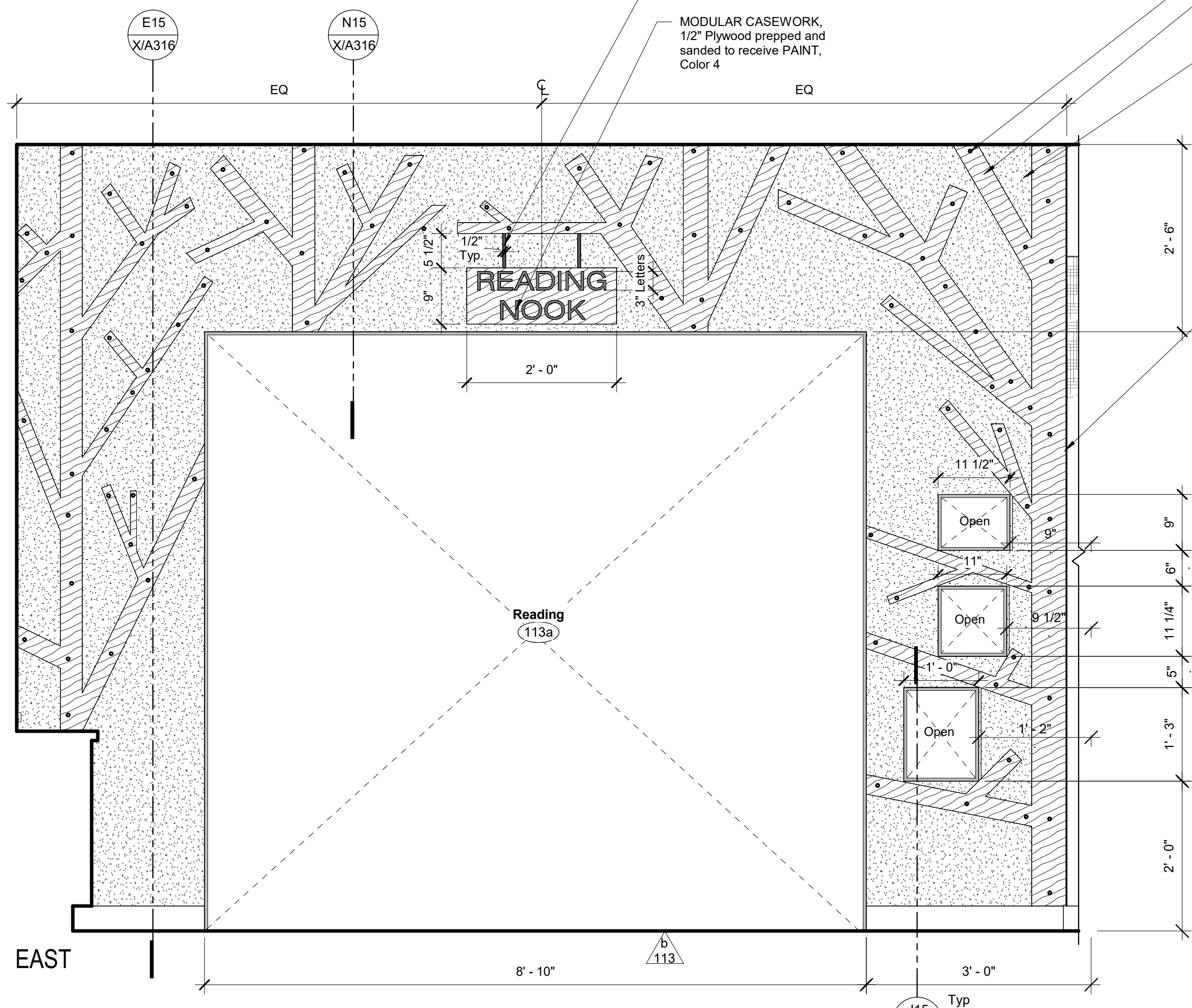
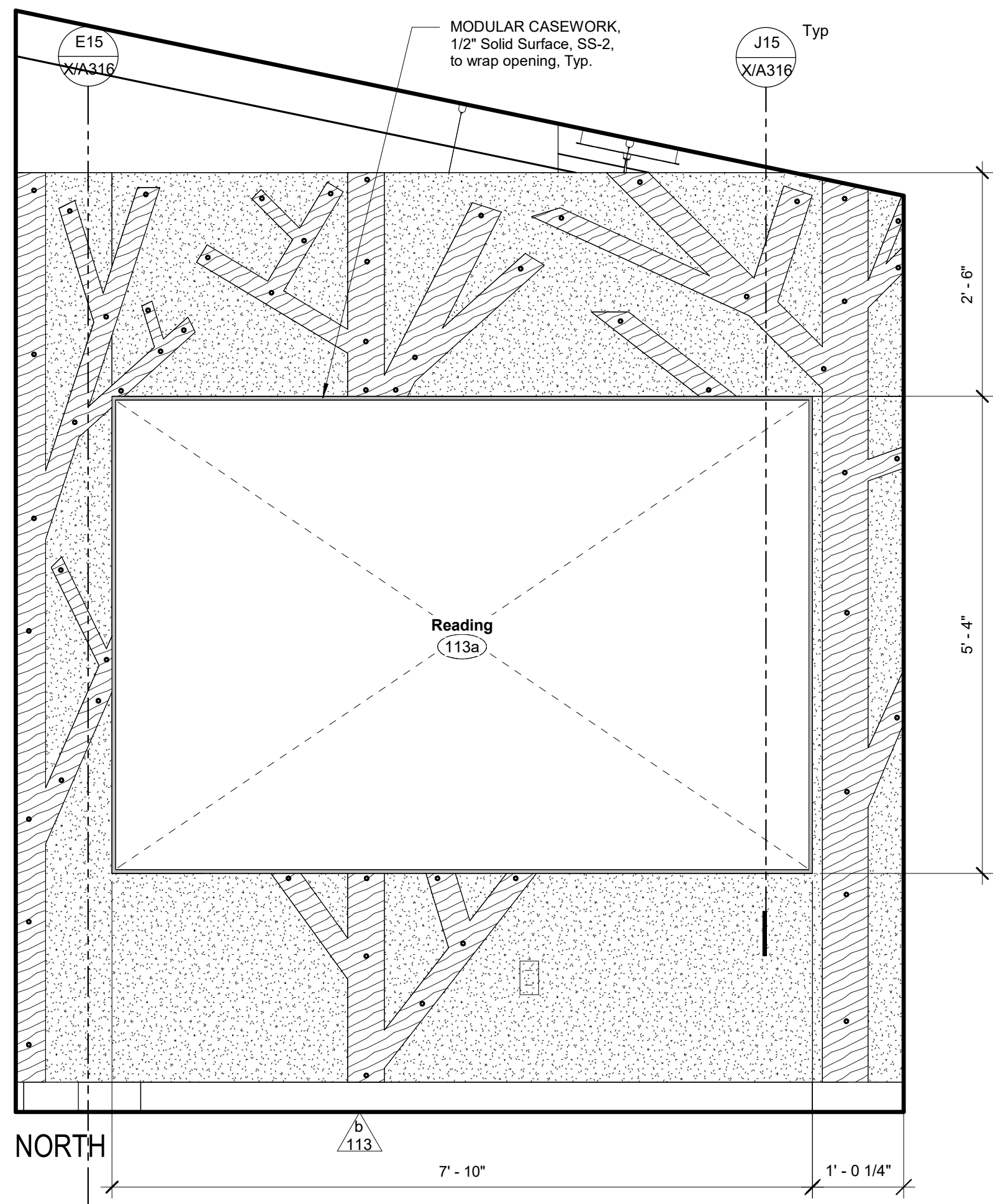
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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Revision

Designed/Designer	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author
Project Number: 2116	Checked I/Checker
Date: 02/15/23	Review/Approver

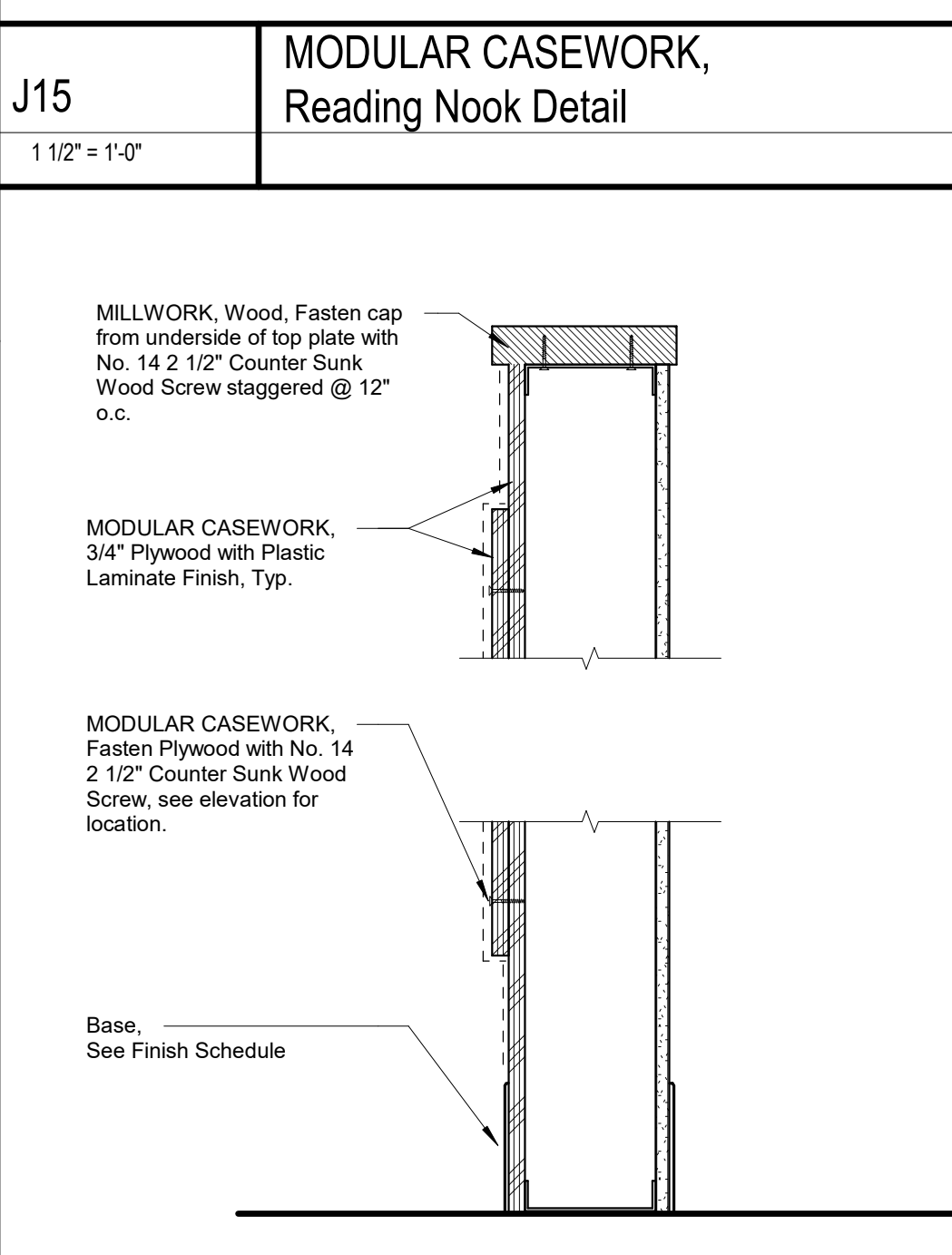
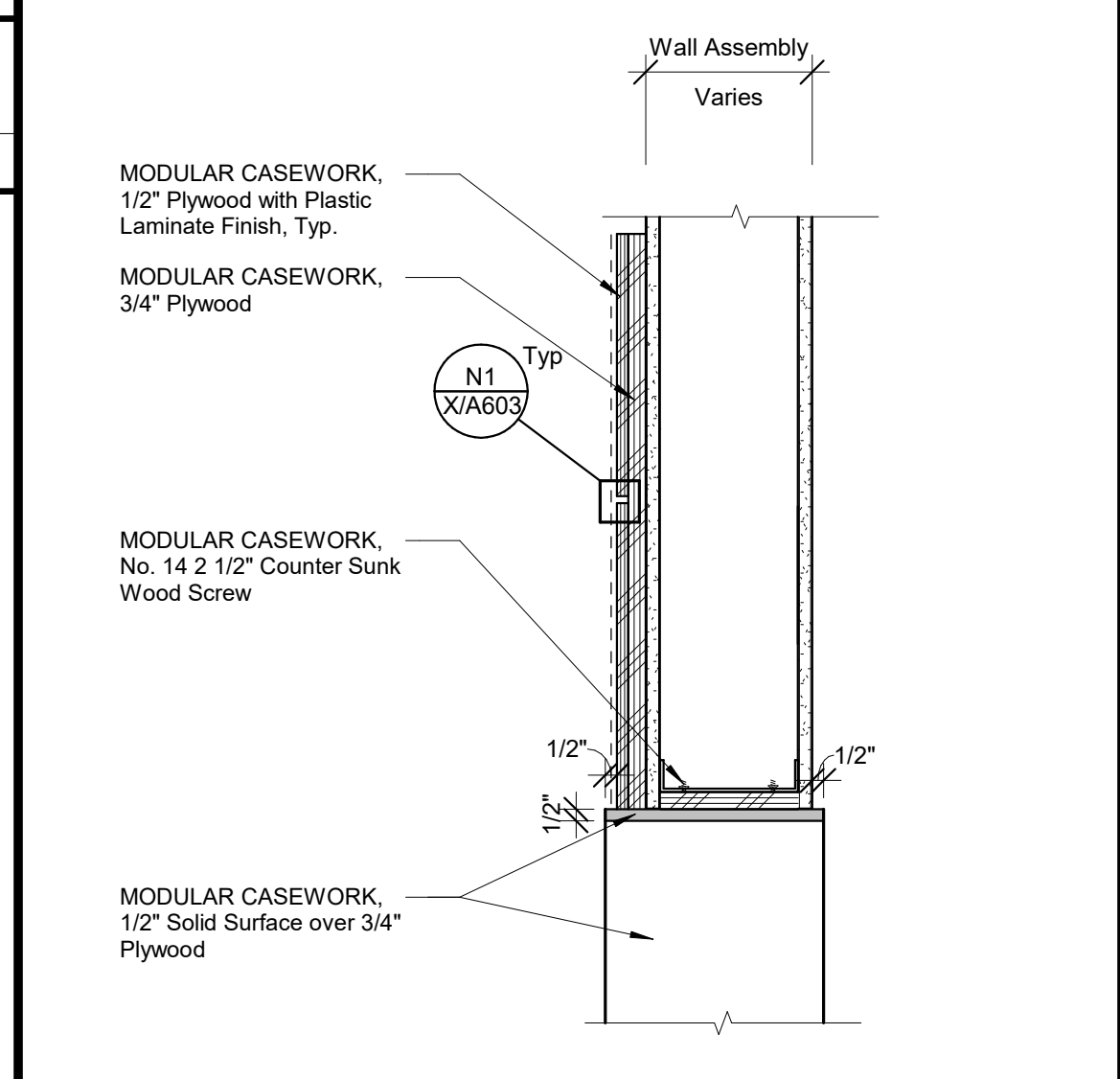
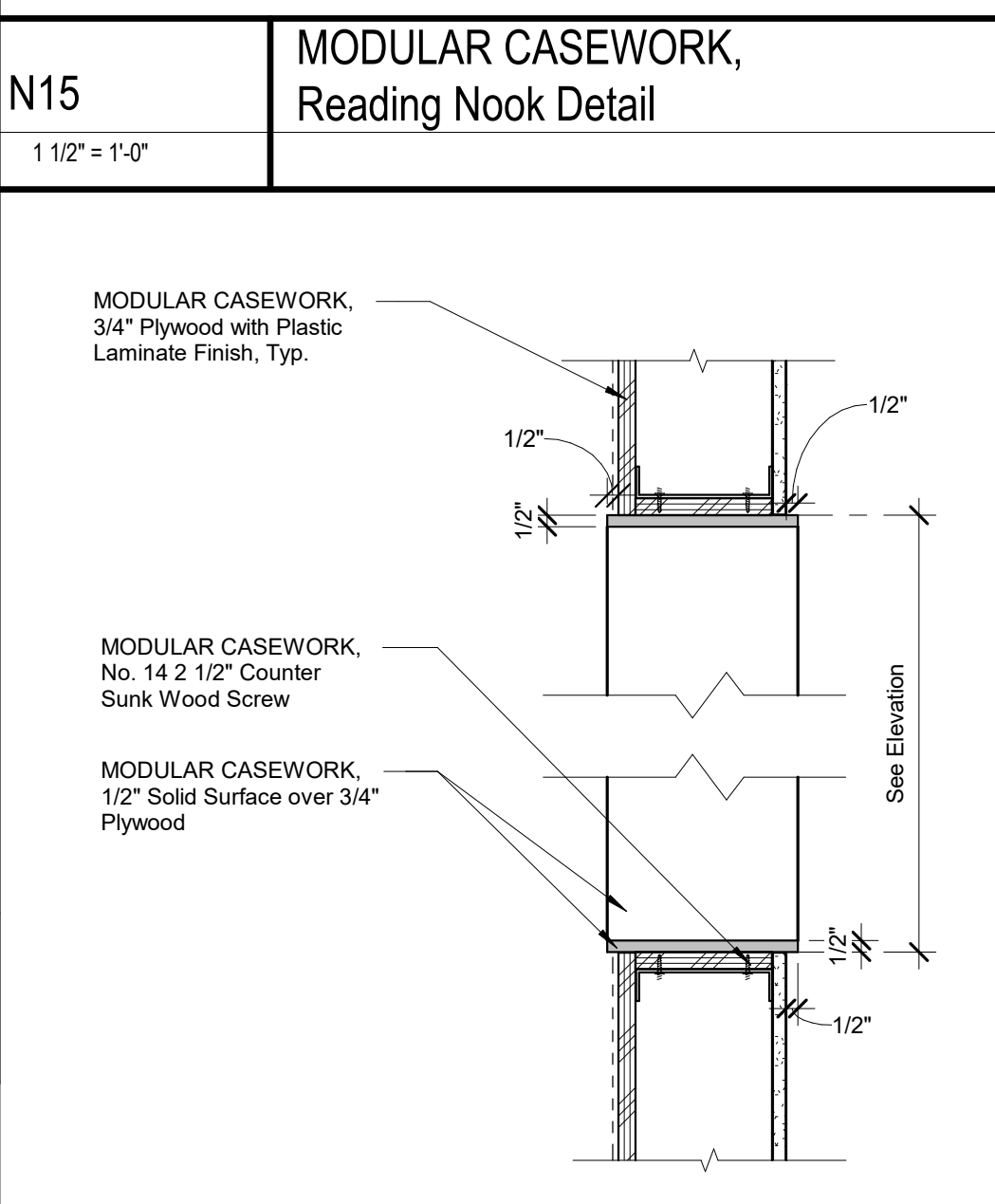
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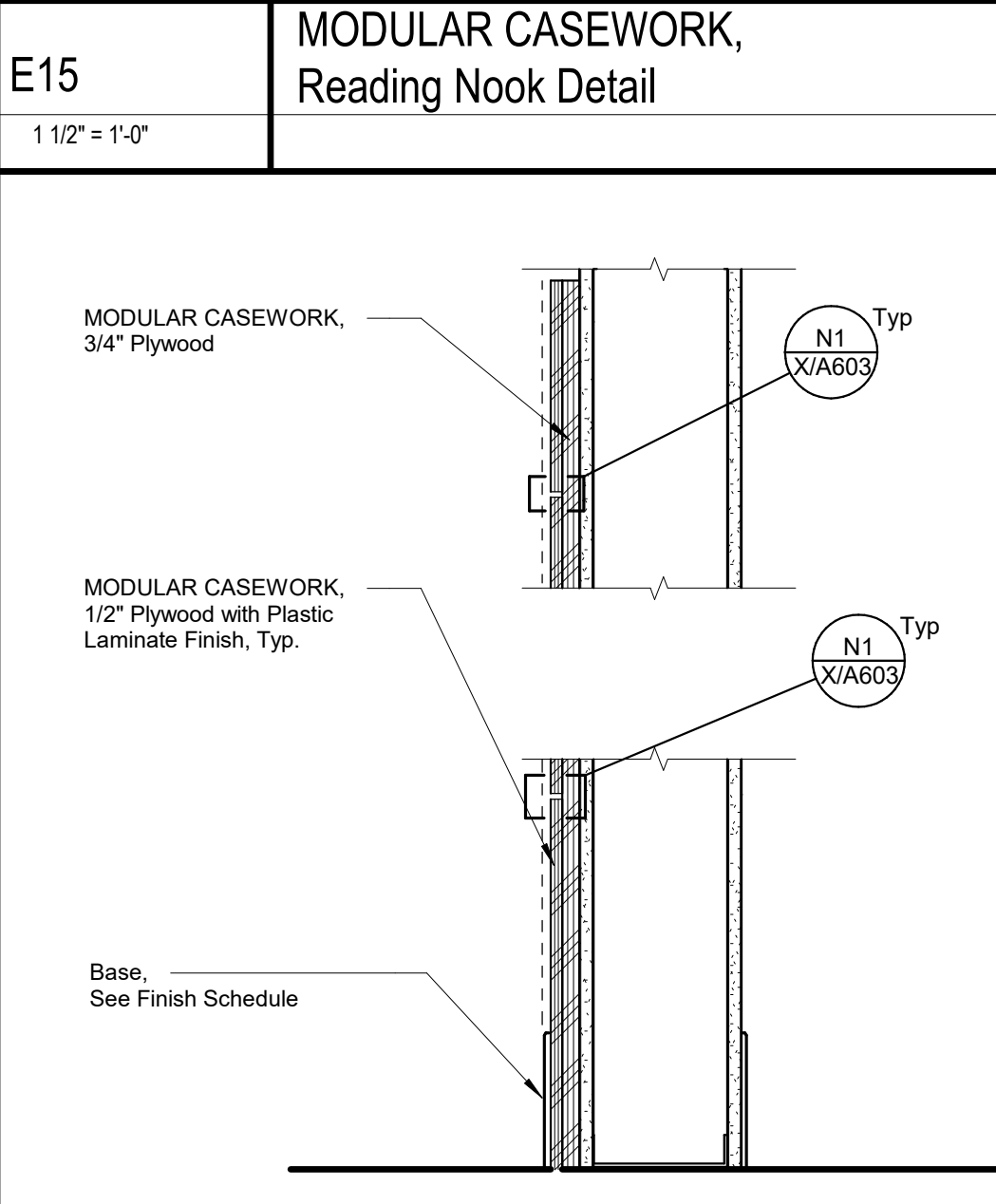
DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- NOTES**
- WALL ASSEMBLY: Refer to Floor Plans, Typical Wall Assembly Schedule and Special Wall Assembly Schedule for wall depth and wall materials.
 - WALL FINISHES: Refer to Interior Elevations and Interior Finish Schedules for the Wall Material Finishes and Additional Wall Coverings.
 - FLOOR MATERIAL: Refer to Floor Plans and Interior Finish Schedules for the actual floor material to be installed.
 - METAL FRAMING: Where Backing is indicated, Provide Backing per N14 X/A601
 - Refer to MODULAR CASEWORK Schedule.

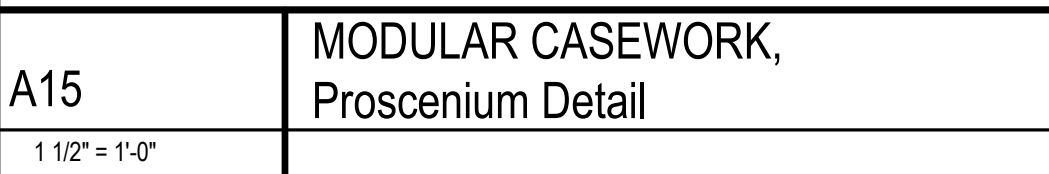
N18 MODULAR CASEWORK, Detail Notes
 No Scale



J18 MODULAR CASEWORK, Proscenium Detail
 1 1/2" = 1'-0"



E15 MODULAR CASEWORK, Reading Nook Detail
 1 1/2" = 1'-0"



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 Clovis Unified School District Project
 Fresno, CA 93727

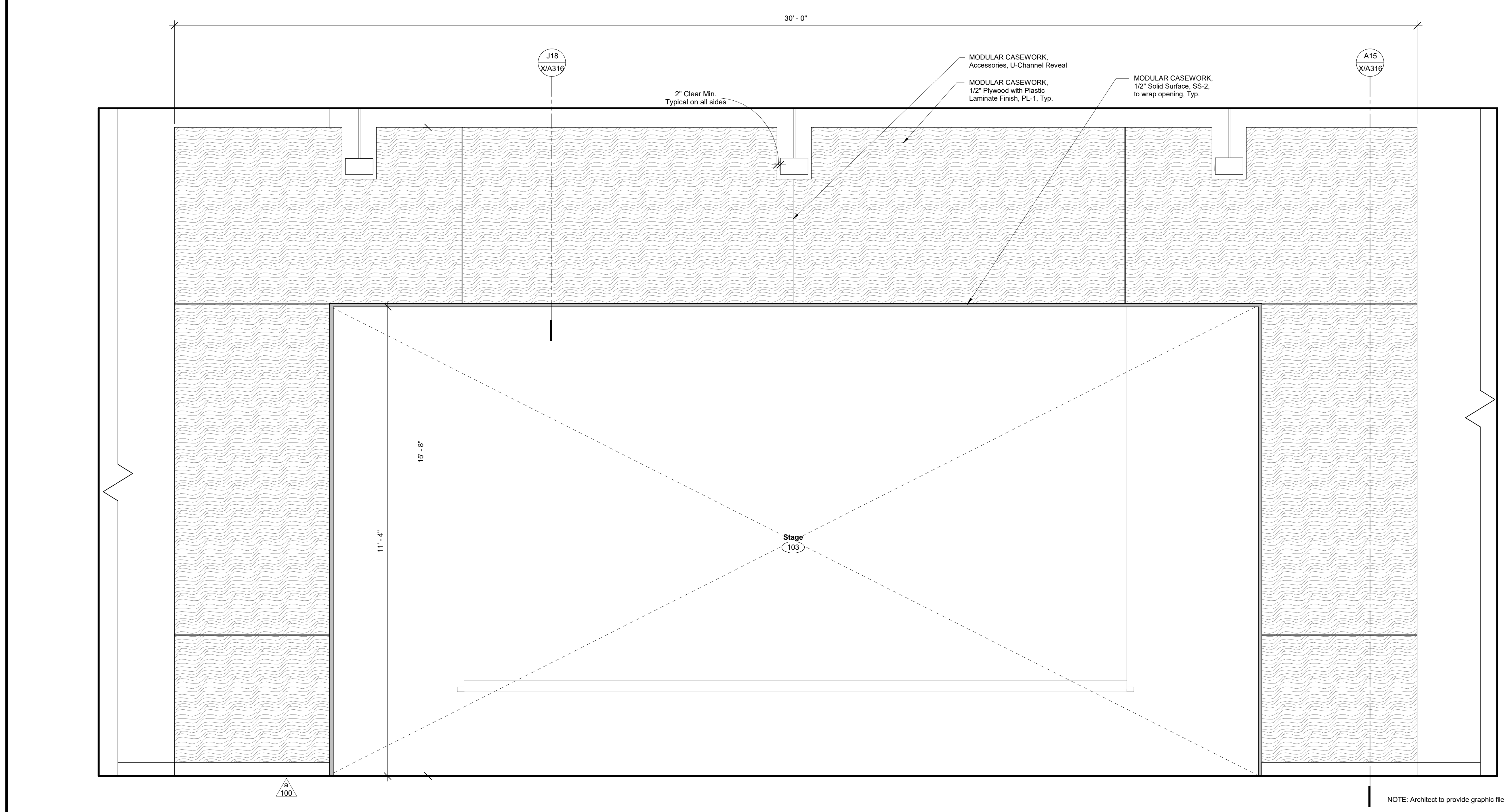
TYPICAL INFORMATION
 CUSTOM CASEWORK- BUILDING A b 113 AND BUILDING E a 100
 Drawing

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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Revision
 Designed Designer Copyright 2022 Darden Architects
 Scale: As indicated Drawn By: Author
 Project Number: 2116 Checked IChecker
 Date: 02/15/23 Reviewer/Approver

K1 Modular Casework Reading Nook Feature b 113
 3/4" = 1'-0"



A1 MODULAR CASEWORK, Proscenium a 100
 3/4" = 1'-0"

2/24/2023 6:31:15 PM
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Opening Schedule Door- Building A- Administration. Table with columns: Building, Door No., Frame Type, Size (Width, Height, Thickness), Door Material, Model No., Door Type, Glass Type, Louver Type, Head, Jamb, Threshold, Hardware (Group, Keying Room No, Fire Rating), Comments.

Opening Schedule Door- Building D- Classroom Building. Table with columns: Building, Door No., Frame Type, Size (Width, Height, Thickness), Door Material, Model No., Door Type, Glass Type, Louver Type, Head, Jamb, Threshold, Hardware (Group, Keying Room No, Fire Rating), Comments.

DSA File No.: 10-48. DSA Application No.: 02-120543. AGENCY APPROVAL. ABBREVIATIONS table. GENERAL NOTES list.

L1 Opening Schedule, Doors- Building A

N.T.S. Refer to F18 for Legend Abbreviations, Notes and Comments

Opening Schedule Door- Building B- Classroom Building. Table with columns: Door No., Frame Type, Size (Width, Height, Thickness), Door Material, Model No., Door Type, Glass Type, Louver Type, Head, Jamb, Threshold, Hardware (Group, Keying Room No, Fire Rating), Comments.

K9 Opening Schedule, Doors- Building D

N.T.S. Refer to F18 for Legend Abbreviations, Notes and Comments

Opening Schedule Door- Building E- Multipurpose. Table with columns: Building, Door No., Frame Type, Size (Width, Height, Thickness), Door Material, Model No., Door Type, Glass Type, Louver Type, Head, Jamb, Threshold, Hardware (Group, Keying Room No, Fire Rating), Comments.

OPENING SCHEDULE COMMENTS

- 1. See Sheet X/A411 for flashing at Hollow Metal Doors: Exterior wall locations. See Sheet X/A421 for flashing at Storefront: Exterior wall locations.
2. For "Special Inserts"-Louvers at exterior wall locations, See Sheet X/A431
3. HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.
4. HARDWARE, Wall Stop, See Sheet X/A431, Typ.
5. HARDWARE, Floor Stop, See Sheet X/A431.
6. Relief Air Louver. See mechanical drawings.
7. Provide two (2) panels of Acoustical Glazing at Acoustical Doors & Frames
8. HARDWARE, Removable Mullion - See Sheets X/A411 & X/A421
9. 1 Hour Corridor Wall (1 Hour Fire Resistive Construction, 20 min. Door Assemblies, 45 min. Window Assemblies).
10. Refer to Mechanical for Louver Information
11. Speaker Hole through glass
12. 1 Hour Occupancy Separation Fire Barrier (1 Hour Fire Resistive Construction) 45 Min. Door Assemblies, 45 Min. Window Assemblies.

F1 Opening Schedule, Doors- Building B

N.T.S. Refer to F18 for Legend Abbreviations, Notes and Comments

Opening Schedule Door- Building C- Classroom Building. Table with columns: Building, Door No., Frame Type, Size (Width, Height, Thickness), Door Material, Model No., Door Type, Glass Type, Louver Type, Head, Jamb, Threshold, Hardware (Group, Keying Room No, Fire Rating), Comments.

F18 Opening Schedule Legend

No Scale

Opening Schedule, Doors- Building E. Table with columns: Building, Door No., Frame Type, Size (Width, Height, Thickness), Door Material, Model No., Door Type, Glass Type, Louver Type, Head, Jamb, Threshold, Hardware (Group, Keying Room No, Fire Rating), Comments.

McKinley/Fowler Elementary School- Increment 2

Clovis Unified School District Project Fresno, CA 93727. TYPICAL INFORMATION. OPENING SCHEDULES- DOORS- BUILDINGS A-E. Drawing.

ARCHITECTURE PLANNING INTERIORS. DARDEN ARCHITECTS. 6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051. ARCHITECT.

Revision table with columns: No., Revision/Submission, Date. Includes fields for Scale (1/4" = 1'-0"), Project Number (2116), Date (02/15/23), and Reviewer/Approver.

A1 Opening Schedule, Doors- Building C

N.T.S. Refer to F18 for Legend Abbreviations, Notes and Comments

A9 Opening Schedule, Doors- Building E

N.T.S. Refer to F18 for Legend Abbreviations, Notes and Comments

Opening Schedule Window- Building A- Administration											Opening Schedule Window- Building C- Classroom Building												
Building	Mark	Frame Type	Size		Material	Head	Jamb	Sill	Glazing Type	Fire Rating	Comments	Building	Mark	Frame Type	Size		Material	Head	Jamb	Sill	Glazing Type	Fire Rating	Comments
			Width	Height											Width	Height							
A	100 a	SF-1	10'-0"	9'-0"		N7-X/A421	J7-X/A421	A1-X/A421	G2-2T			C	100 a	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	100 b	SF-34	10'-0"	6'-2"		N7-X/A421	J7-X/A421	A1-X/A421	G2-2, G2-2T			C	100 b	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	100 d	SF-10	10'-0"	11'-6"		N7-X/A421	J7-X/A421	N11-X/A421	G2-2			C	100 c	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	103 a	SF-7	11'-0"	9'-0"		N14-X/A421	J14-X/A421	A1-X/A431	C1-1, C1-T1			C	100 d	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	105 a	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	100 e	SF-21	3'-2"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	105 b	SF-5	10'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	101 a	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	105 c	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	101 b	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	105 f	SF-12	10'-0"	2'-0"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2	See Sheet A/A201 for location		C	101 d	SF-21	3'-2"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	110 c	SF-4	6'-4"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	101 e	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	111 b	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	101 f	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	111 c	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	102 a	SF-20	6'-6"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	112 a	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	102 b	SF-17	6'-6"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	112 c	HM-3	4'-0"	3'-0"		N4-X/A411	J4-X/A411	E4-X/A411	C1-1			C	102 d	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	112 d	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	102 e	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	113 a	SF-4	6'-4"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	102 f	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	113 b	SF-4	6'-4"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	103 b	SF-17	6'-6"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	113 c	SF-4	6'-4"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	103 c	SF-20	6'-6"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	113 d	SF-4	6'-4"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	103 d	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	113 e	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	103 e	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	113 f	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	104 a	SF-20	6'-6"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	113 g	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	104 b	SF-17	6'-6"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	113 h	SF-2	8'-10"	9'-0"		N1-X/A421	J1-X/A421	A1-X/A421	G2-2T			C	104 d	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	113 j	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	104 e	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	113 k	SF-5	10'-0"	6'-2"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1, C1-T1			C	105 b	SF-17	6'-6"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	113 l	SF-7	11'-0"	9'-0"		N14-X/A421	J14-X/A421	A1-X/A431	C1-1T			C	105 c	SF-20	6'-6"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	113 n	SF-4	6'-4"	6'-2"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1, C1-T1			C	105 d	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	113 o	SF-4	6'-4"	6'-2"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1, C1-T1			C	105 e	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	114 a	HM-2	7'-8"	4'-2"		N4-X/A411	J4-X/A411	E4-X/A411	C1-1T			C	105 f	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	114 b	HM-2	7'-8"	4'-2"		N4-X/A411	J4-X/A411	E4-X/A411	C1-1T			C	106 a	SF-21	3'-2"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	114 e	SF-4	6'-4"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	106 c	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	114 f	SF-4	6'-4"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T			C	106 d	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	114 g	SF-5	10'-0"	6'-2"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1, C1-T1			C	106 e	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	116 b	SF-2	8'-10"	9'-0"		N7-X/A421	J7-X/A421	A1-X/A421	G2-2T			C	106 f	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	116 c	SF-33	10'-0"	4'-1"		E18-X/A421	J7-X/A421	E18-X/A421	G2-2	See Sheet A/A401 for location		C	107 b	SF-21	3'-2"	4'-4"		N14-X/A421	J14-X/A421	N18-X/A421	C1-1T		
A	116 d	SF-33	10'-0"	4'-1"		E18-X/A421	J7-X/A421	E18-X/A421	G2-2	See Sheet A/A401 for location		C	107 c	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	116 e	SF-33	10'-0"	4'-1"		E18-X/A421	J7-X/A421	E18-X/A421	G2-2	See Sheet A/A401 for location		C	107 d	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	116 f	SF-33	10'-0"	4'-1"		E18-X/A421	J7-X/A421	E18-X/A421	G2-2	See Sheet A/A401 for location		C	107 e	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
A	116 g	SF-9	8'-10"	11'-0"		N7-X/A421	J7-X/A421	N11-X/A421	G2-2			C	107 f	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

ABBREVIATIONS		
OSS	- STEEL WINDOWS, Frames, Operable	AC - Acoustical
SG	Steel Sash, Refer to sheet XXXXX	SS - Stainless Steel
SW	Service Window	CL - Chain Link
STL	Steel	LD - LAMINATE FACED WOOD DOORS
AL	Aluminum	CD - COLLING DOORS,
SF	Storefront	GALV - Galvanized Finish
HM	Hollow Metal	S&F - Steel and Fabrications
SG	Site Gate	RO - Rough Opening
SFF	Steel Post Fence	H - Hazard Class 1 Glazing (CBC) Tempered or Laminated Glass, See Opening Schedule for Type.

- GENERAL NOTES**
- This schedule is provided for the convenience of the General Contractor. Dimensions indicated are nominal dimensions.
 - The General Contractor is responsible for all coordination and review of drawings and verifying all field conditions and dimensions prior to fabrication. Not all detail references are included in the schedule.
 - Provide metal closure plates for HM Frames at concrete curbs, Typical. Refer to Sheet X/A411
 - All details, materials and finishes shall be considered typical for all similar conditions unless noted otherwise.
 - All fire rated doors shall be automatic-closing or self-closing as provided in Section 716.5.9, 2019 CBC.
 - Fire rated door frames shall be installed in accordance with the manufacturer's instructions. Manufacturer's instructions shall be made available to inspecting authorities.
 - Door Types are shown on sheet X/A404
 - Frame Types are shown on sheet X/A405
 - Special Inserts are shown on Sheet X/A431
 - Paint operable steel sash frame, see finish schedule for metal surfaces.
 - For material transition at doors see X/A603
 - Exit Doors shall be operable from inside without the use of a key or any special knowledge or effort.
 - For Opening Head, Jamb, and Sill framing conditions, see Structural Drawings.
 - At exterior wall locations, provide flashing as noted in Opening Schedule Comments #1, whether noted in the schedule or not.
 - Doors, and sashes adjacent to doors, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the floor. This shall not apply if all Glazing Panels are 66" or greater above the Finish Floor.

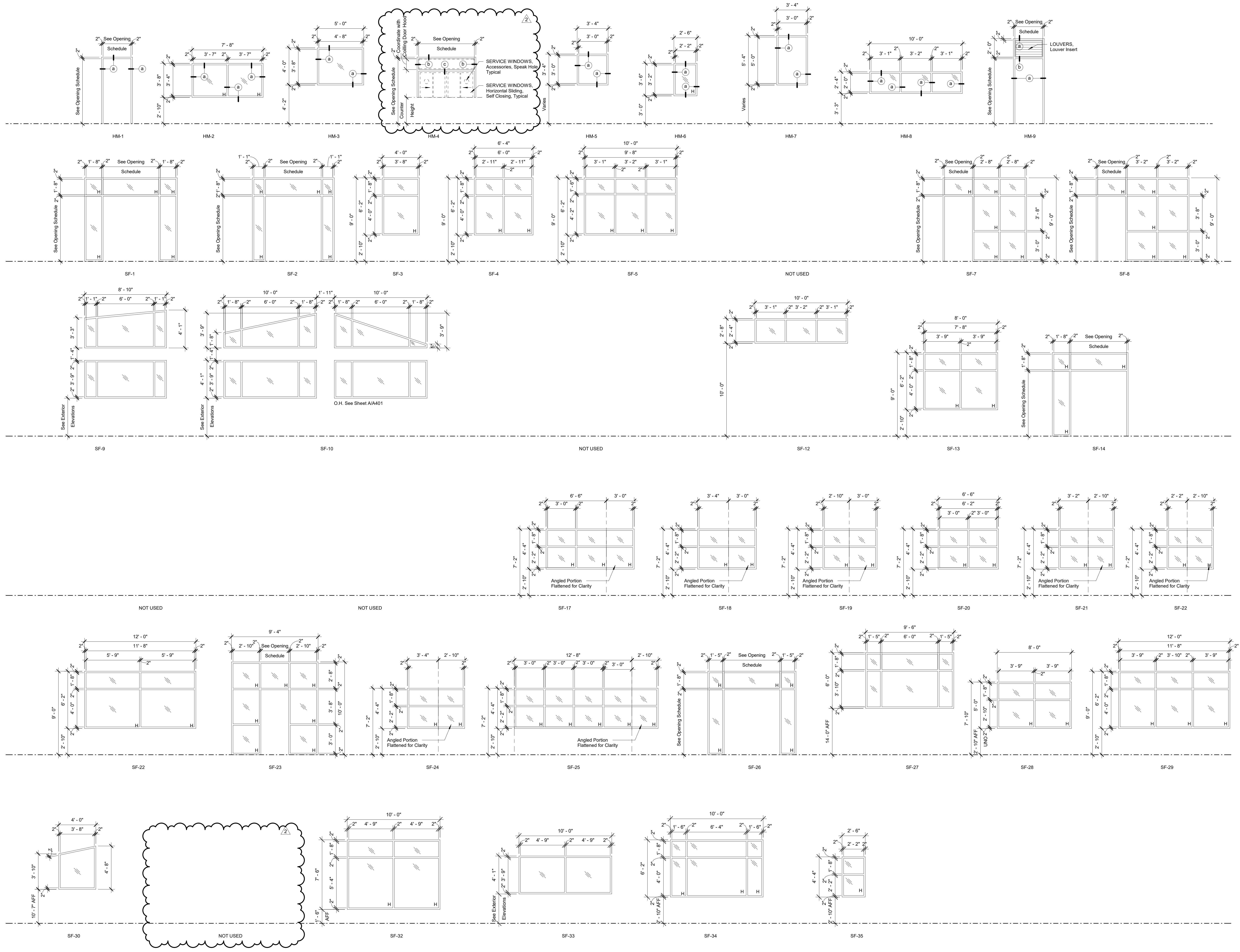
OPENING SCHEDULE COMMENTS

- See Sheet X/A411 for flashing at Hollow Metal Doors. Exterior wall locations. See Sheet X/A421 for flashing at Storefront. Exterior wall locations.
- For "Special Inserts"-Louver at exterior wall locations, See Sheet X/A431
- HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.
- HARDWARE, Wall Stop, See Sheet X/A431, Typ.
- HARDWARE, Floor Stop, See Sheet X/A431
- Relief Air Louver. See mechanical drawings.
- Provide two (2) panels of Acoustical Glazing at Acoustical Doors & Frames
- HARDWARE, Removable Mullion - See Sheets X/A411 & X/A421
- 1 Hour Corridor Wall (1 Hour Fire Resistive Construction, 20 min. Door Assemblies, 45 min. Window Assemblies).
- Refer to Mechanical for Louver Information
- Speaker Hole through glass
- 1 Hour Occupancy Separation Fire Barrier (1 Hour Fire Resistive Construction) 45 Min. Door Assemblies, 45 Min. Window Assemblies.

Opening Schedule Window- Building B- Classroom Building											
Building	Mark	Frame Type	Size		Material	Head	Jamb	Sill	Glazing Type	Fire Rating	Comments
			Width	Height							
B	100 c	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	100 d	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	100 e	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	100 f	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	101 a	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	101 b	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	101 c	SF-18	3'-4"	4'-0"		N14-X/A421	J14-X/A421	N18-X/A421	C-1, C1-1T		
B	101 e	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	101 f	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	102 a	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	102 b	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	102 d	SF-17	6'-6"	7'-2"		N14-X/A421	J14-X/A421	N18-X/A421	C-1, C1-1T		
B	102 e	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	103 a	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	103 b	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	103 c	SF-17	6'-6"	7'-2"		N14-X/A421	J14-X/A421	N18-X/A421	C-1, C1-1T		
B	104 a	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	104 b	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	104 d	SF-17	6'-6"	7'-2"		N14-X/A421	J14-X/A421	N18-X/A421	C-1, C1-1T		
B	105 a	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	105 b	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	105 c	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	105 d	SF-17	6'-6"	7'-2"		N14-X/A421	J14-X/A421	N18-X/A421	C-1, C1-1T		
B	106 a	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	106 b	SF-3	4'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	106 c	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	106 d	SF-13	8'-0"	6'-2"		N1-X/A421	J1-X/A421	E1-X/A421	G2-2, G2-2T		
B	106 g	SF-18	3'-4"	4'-0"		N14-X/A421	J14-X/A421	N18-X/A421	C-1, C1-1T		</

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DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval



McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
Fresno, CA 93727

TYPICAL INFORMATION
DOOR AND WINDOW FRAME ELEVATION
Drawing

darden ARCHITECTURE
PLANNING
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ARCHITECT

No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Revision
Designed Designer: Copyright 2022 Darden Architects
Project Number: 2116
Date: 02/15/23

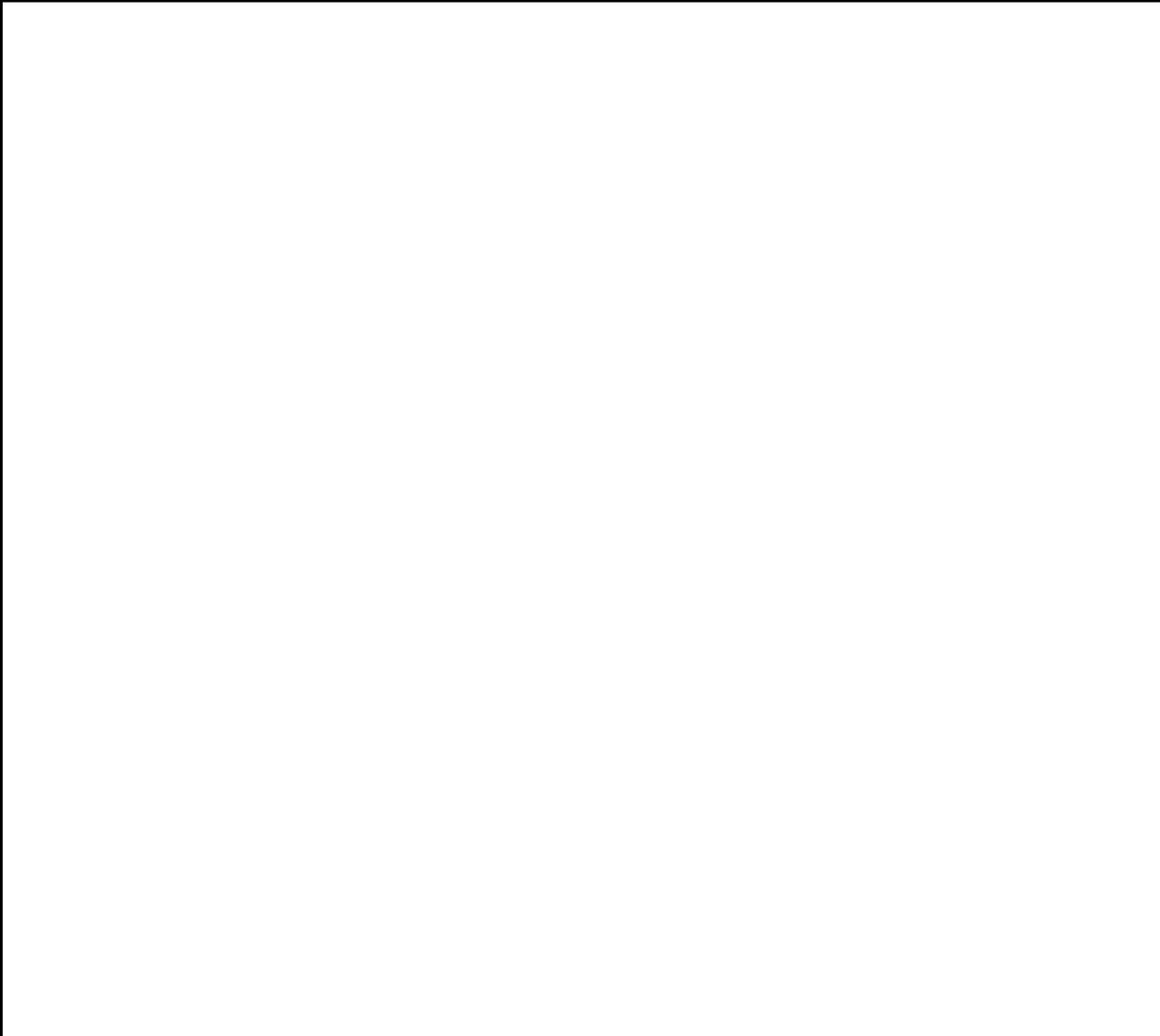
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Review/Approver:

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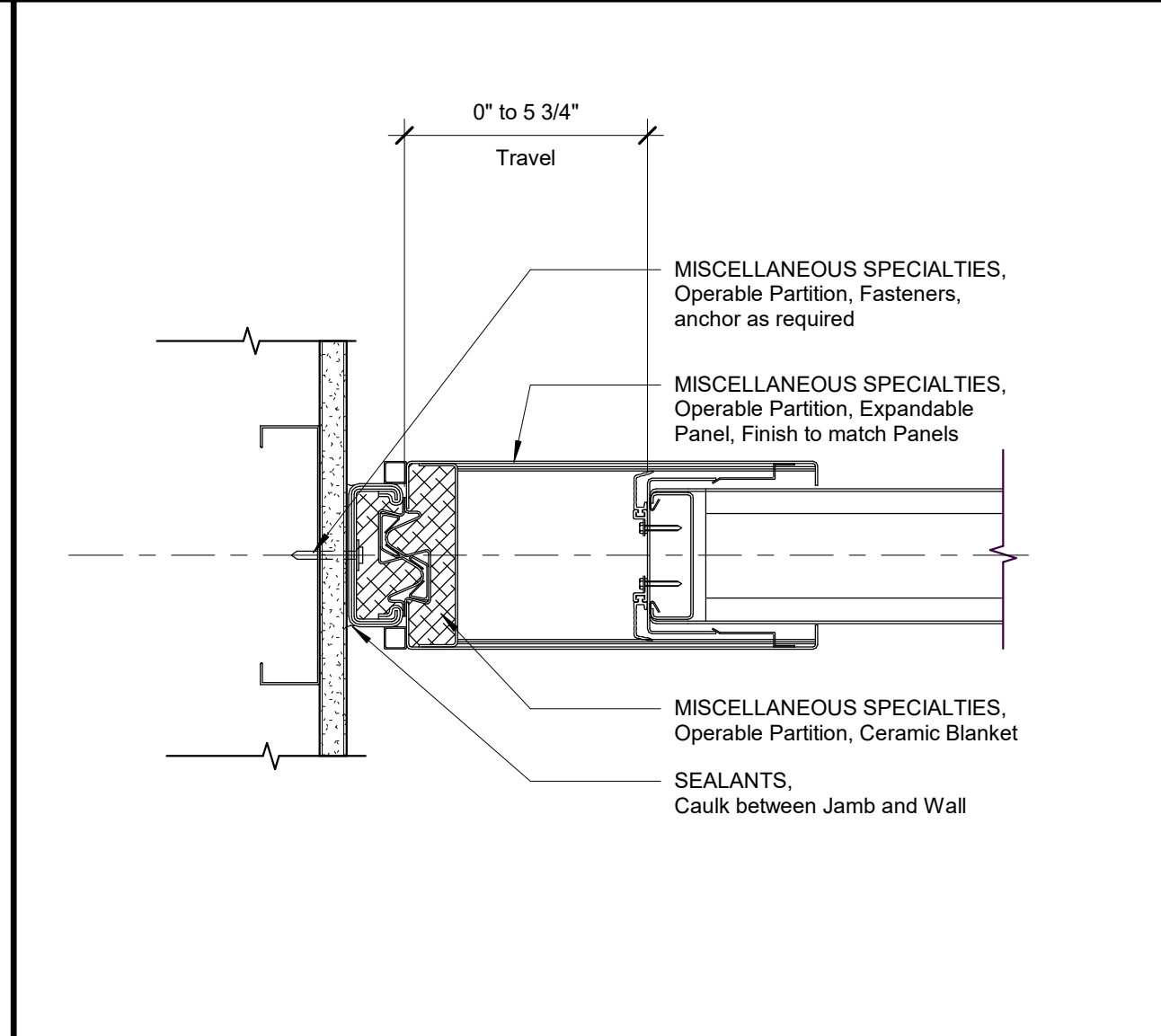
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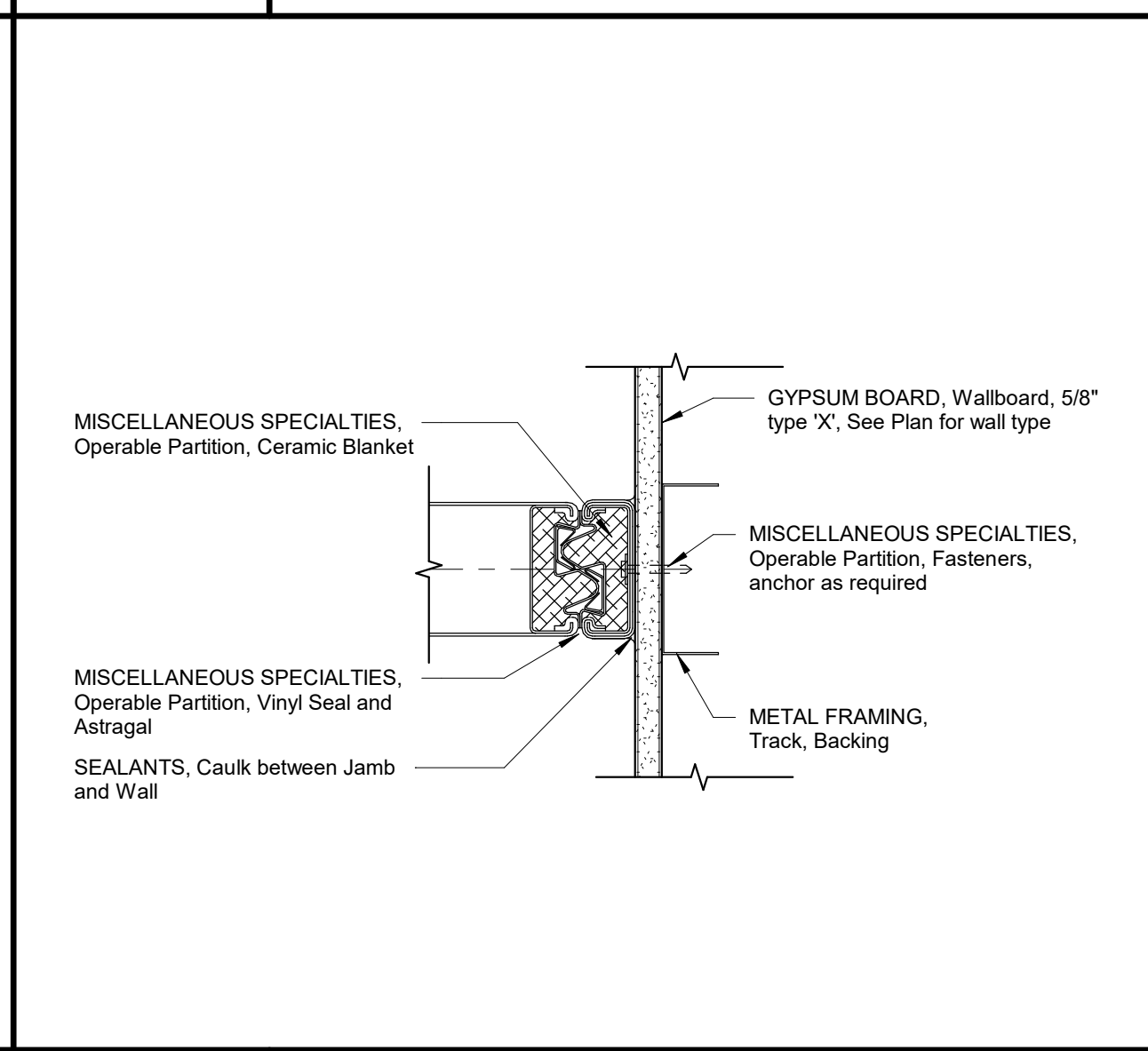
AT METAL FRAMING



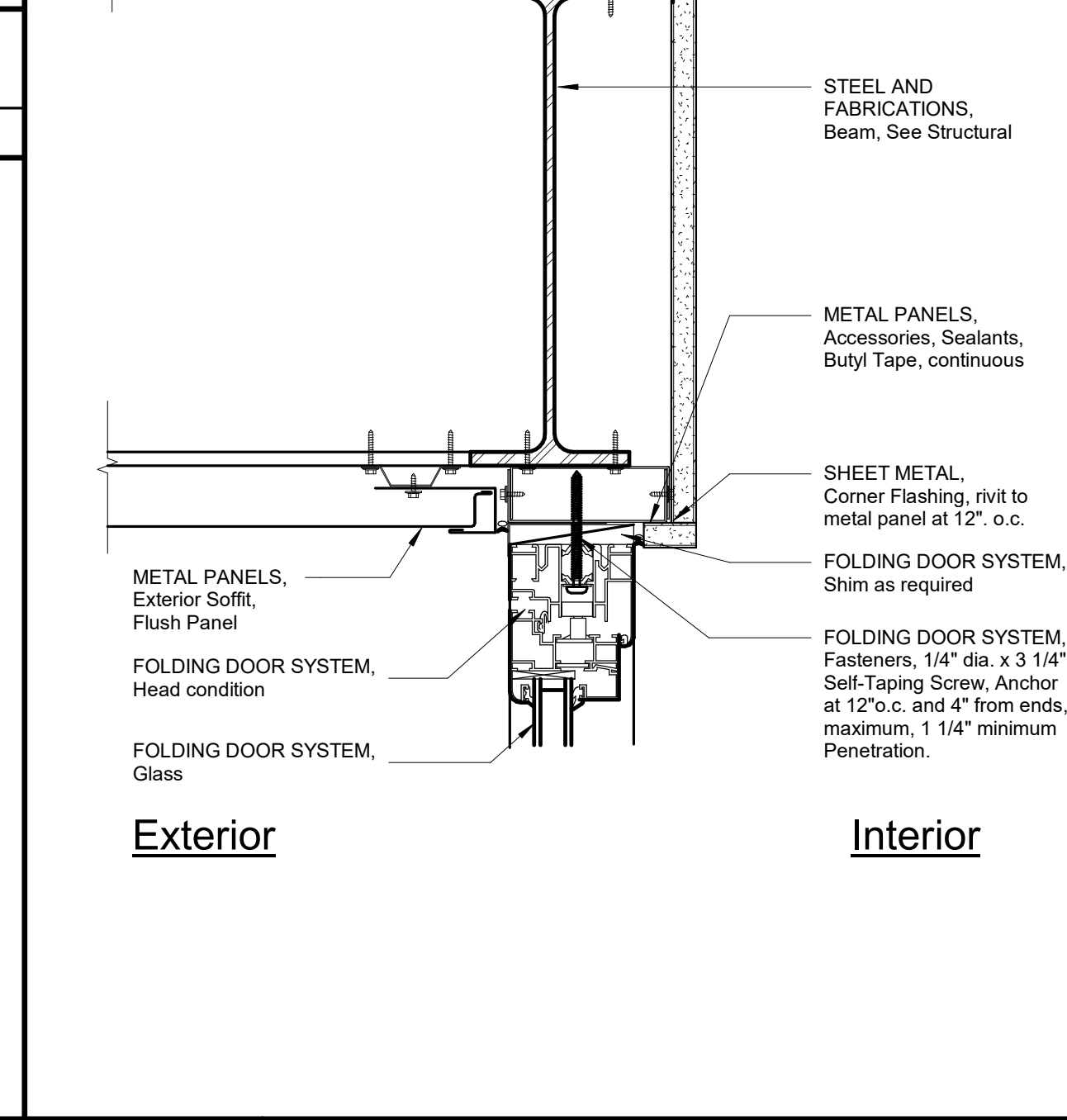
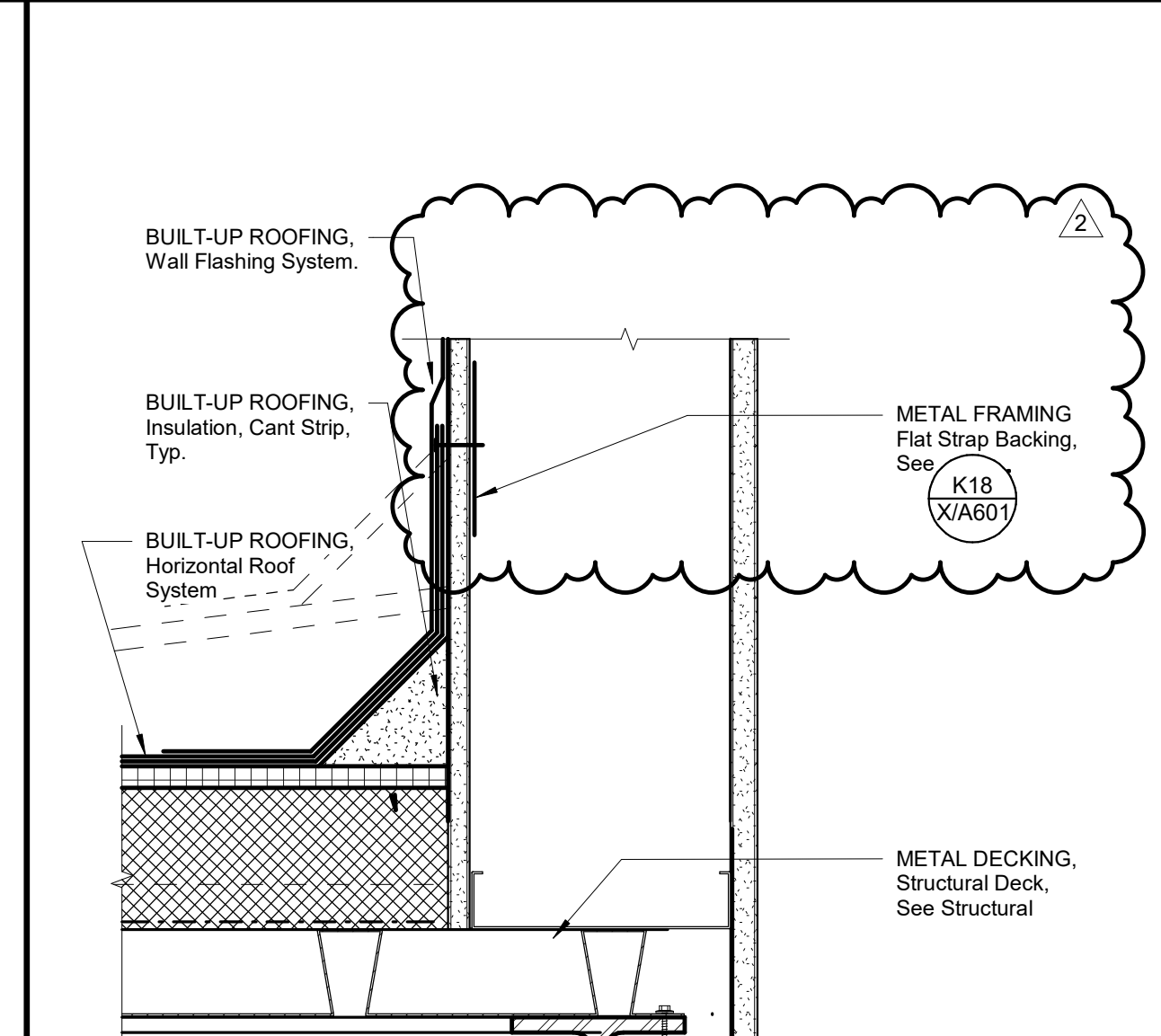
J4 SERVICE WINDOW, Head Detail
3" = 1'-0"



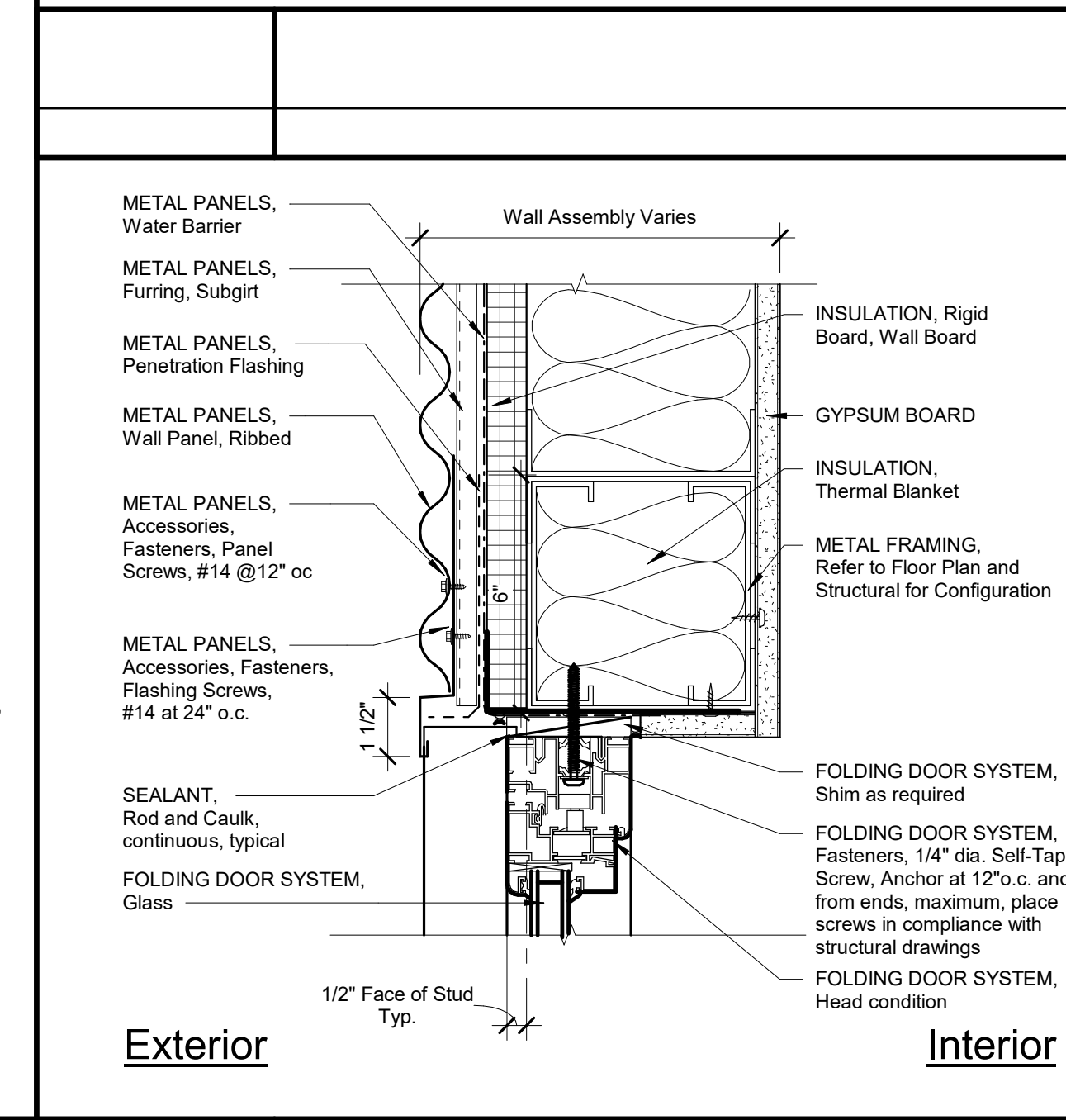
N7 MISCELLANEOUS SPECIALTIES, Operable Partition, Expandable Panel
3" = 1'-0"



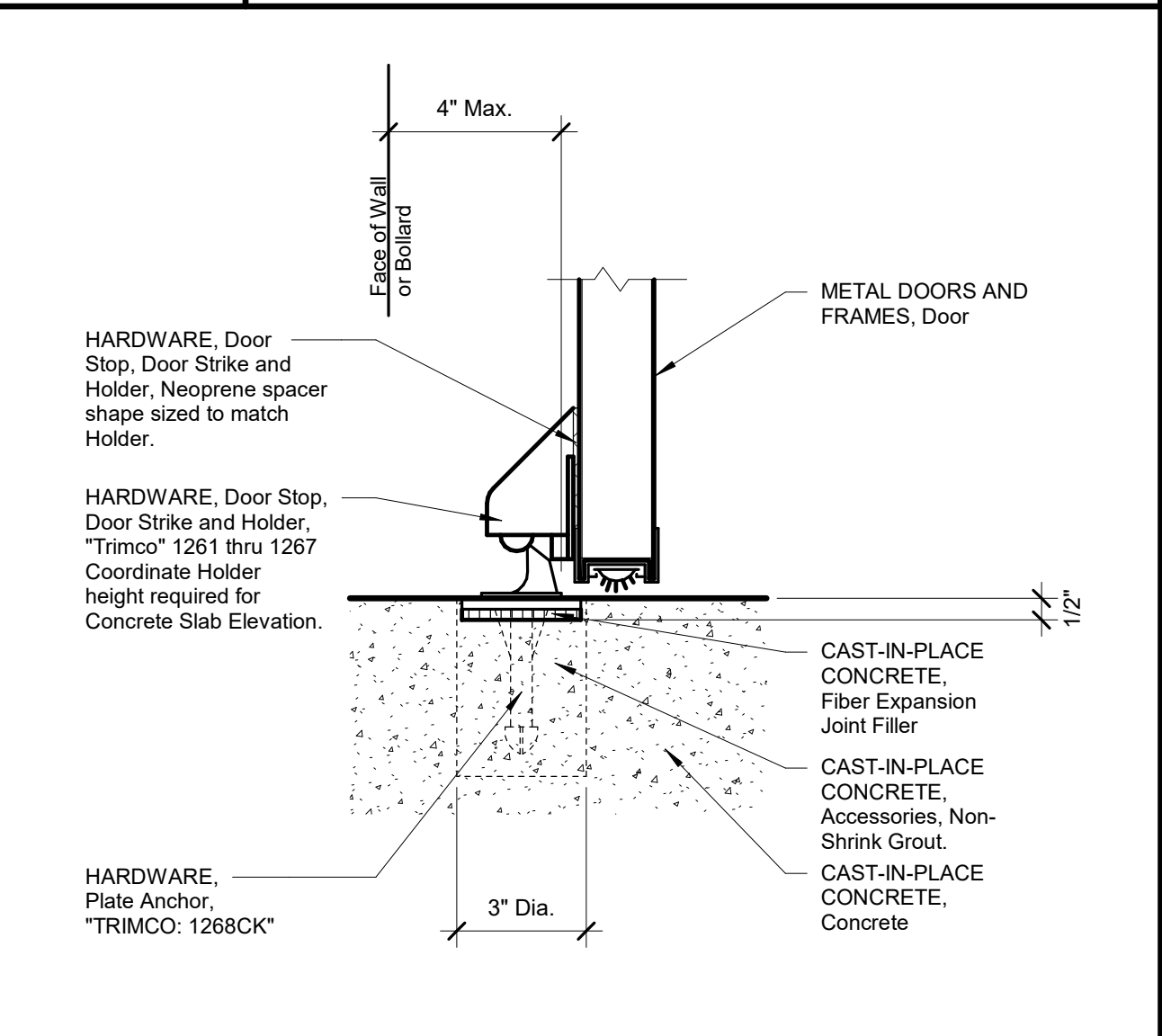
J7 MISCELLANEOUS SPECIALTIES, Operable Partition, Jamb, Fixed
3" = 1'-0"



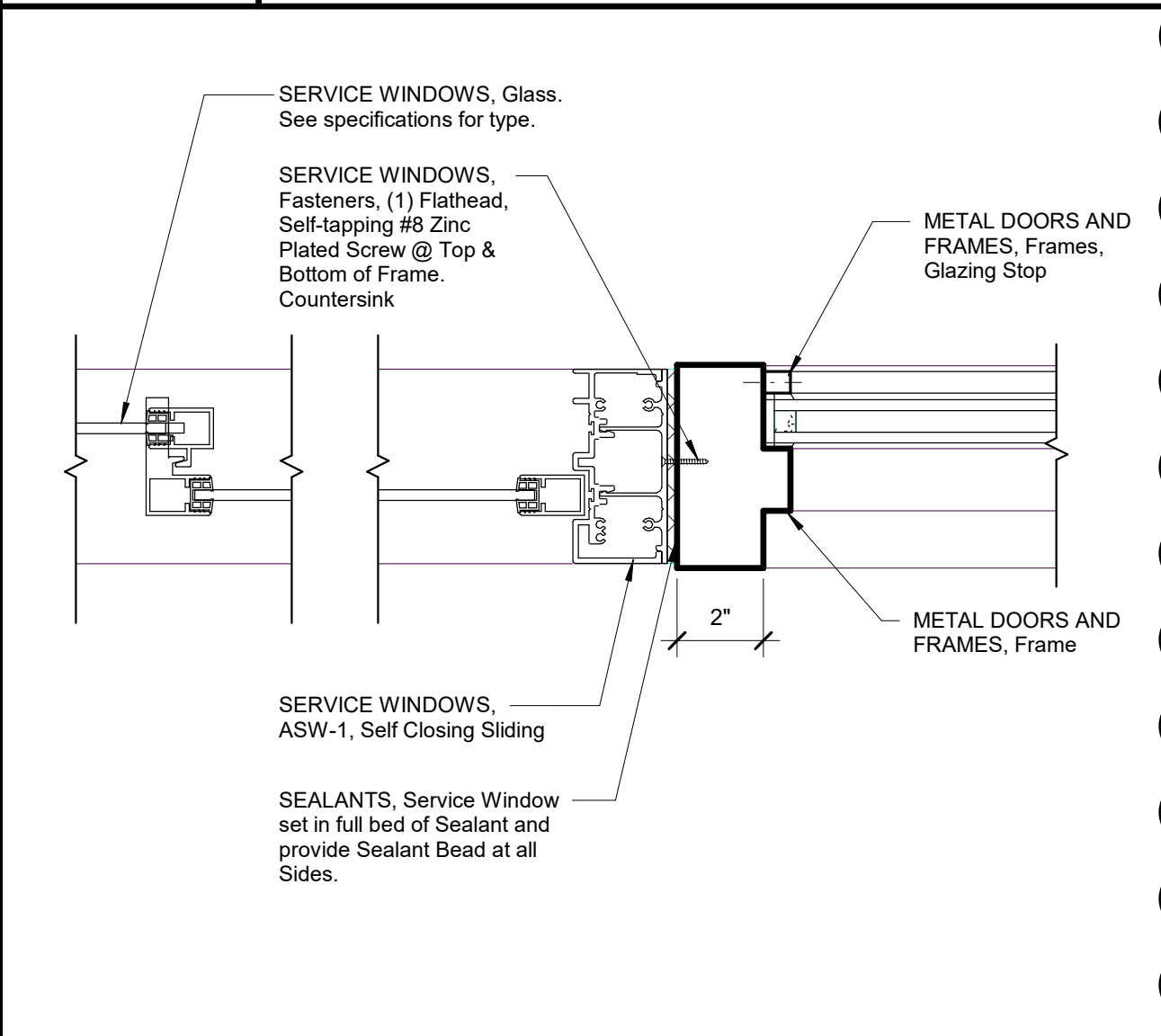
J11 FOLDING DOOR SYSTEM, Head Section
3" = 1'-0"



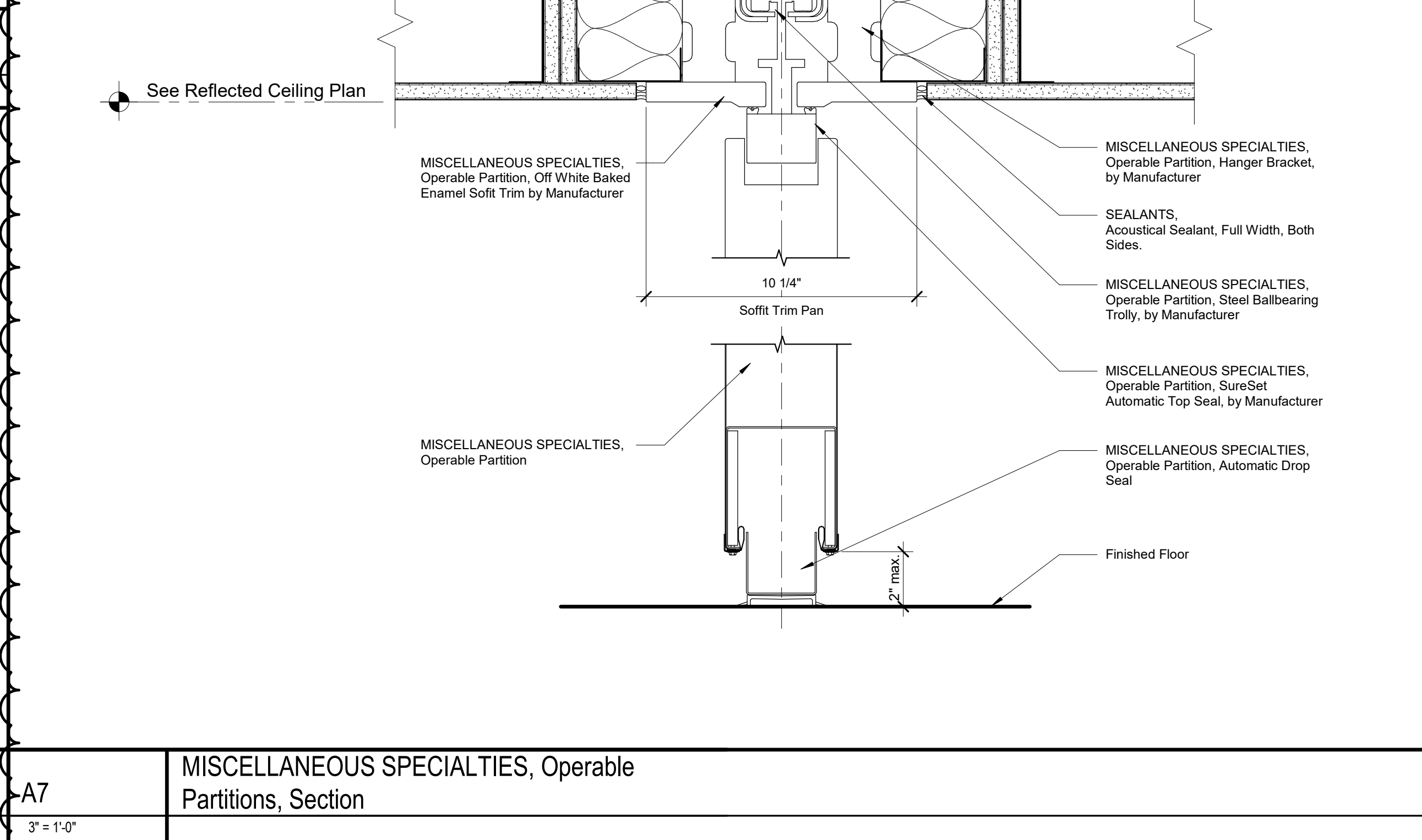
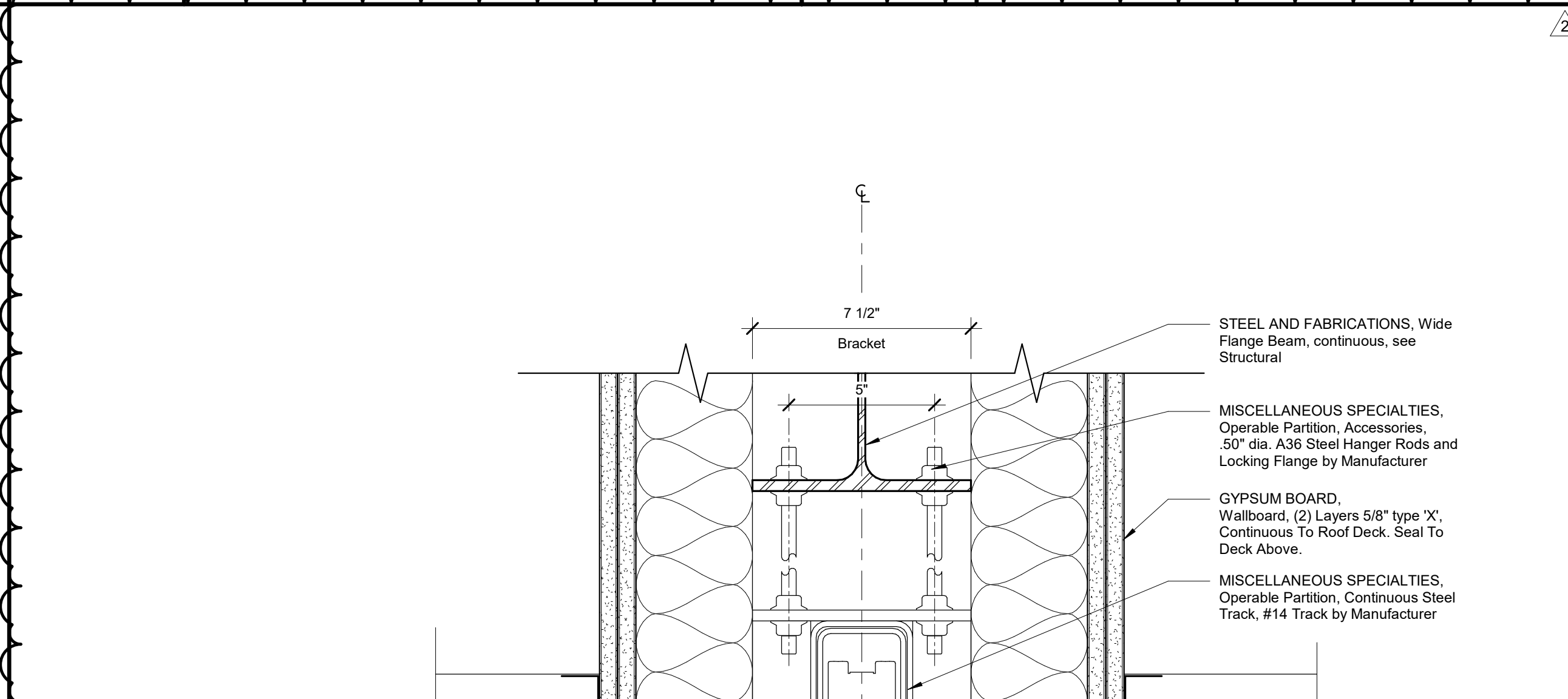
J14 FOLDING DOOR SYSTEM, Head Section
3" = 1'-0"



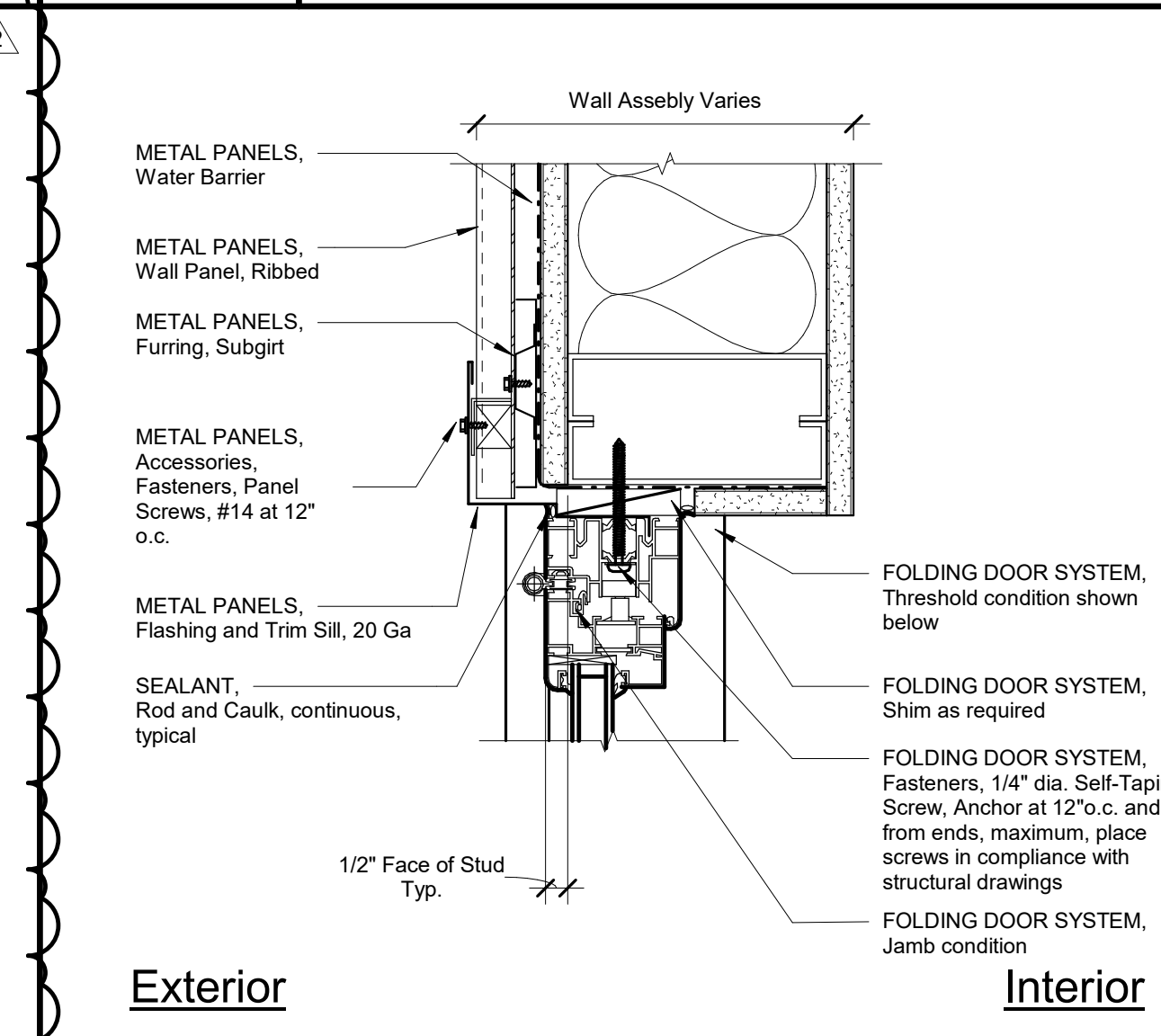
E1 HARDWARE, Door Stop at Exterior & Interior
3" = 1'-0"



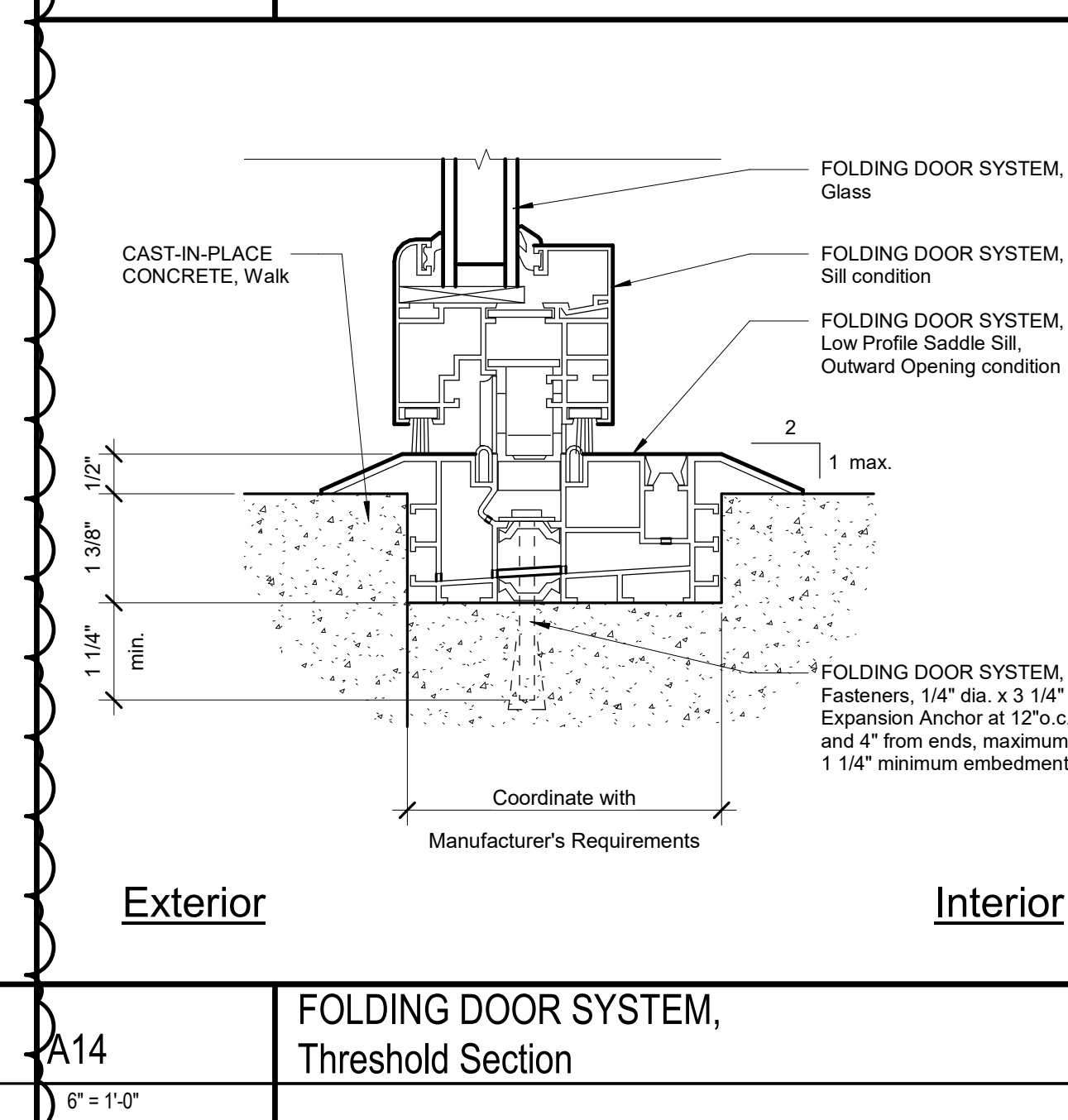
E4 SERVICE WINDOW, Jamb Detail
3" = 1'-0"



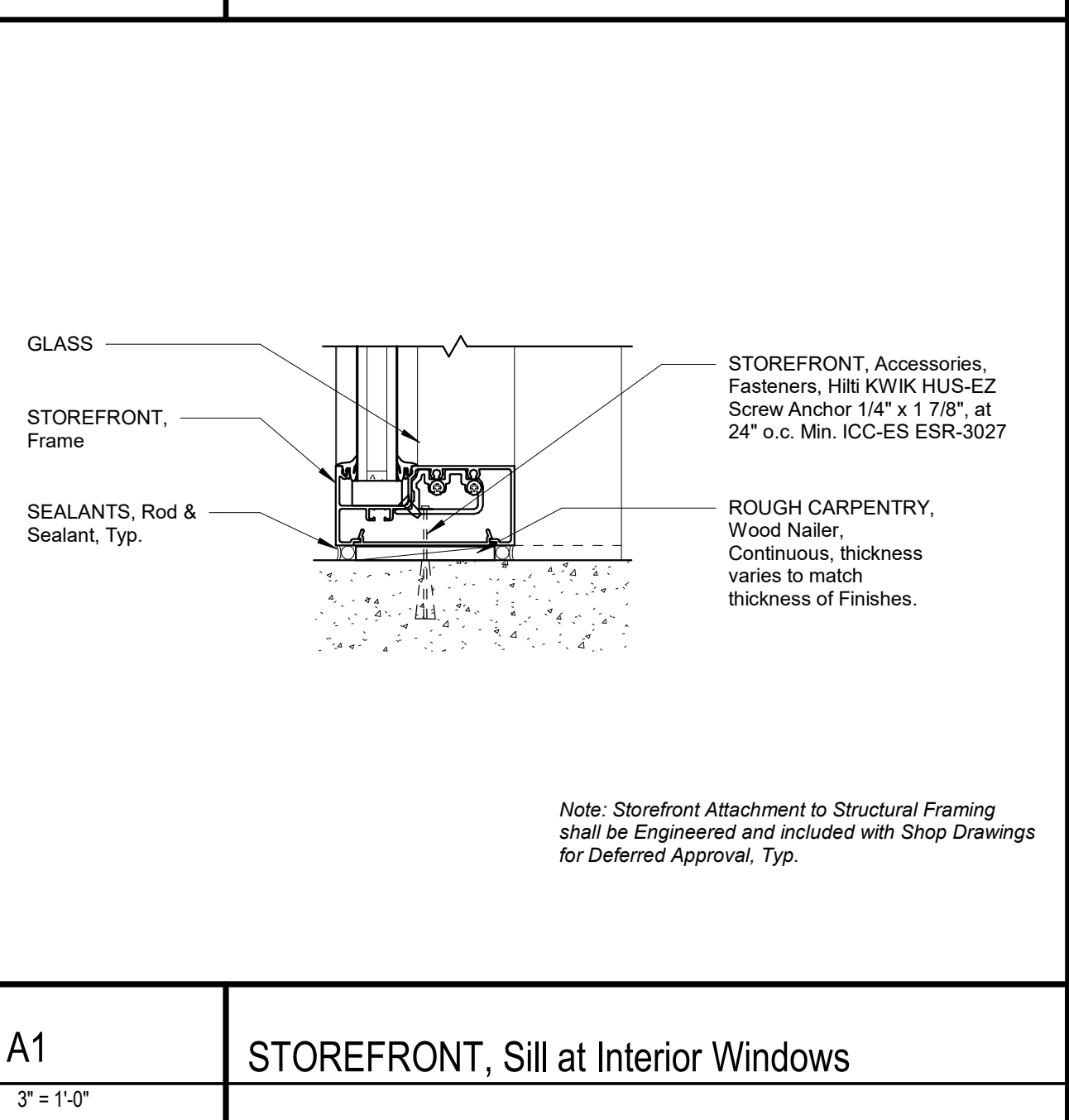
A7 MISCELLANEOUS SPECIALTIES, Operable Partitions, Section
3" = 1'-0"



E14 FOLDING DOOR SYSTEM, Jamb Section
3" = 1'-0"



A14 FOLDING DOOR SYSTEM, Threshold Section
6" = 1'-0"



A1 STOREFRONT, Sill at Interior Windows
3" = 1'-0"

A4 SERVICE WINDOWS, Special Insert Sill Detail
3" = 1'-0"

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
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Project

TYPICAL INFORMATION
OPENING DETAILS- MISCELLANEOUS OPENINGS
Drawing

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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

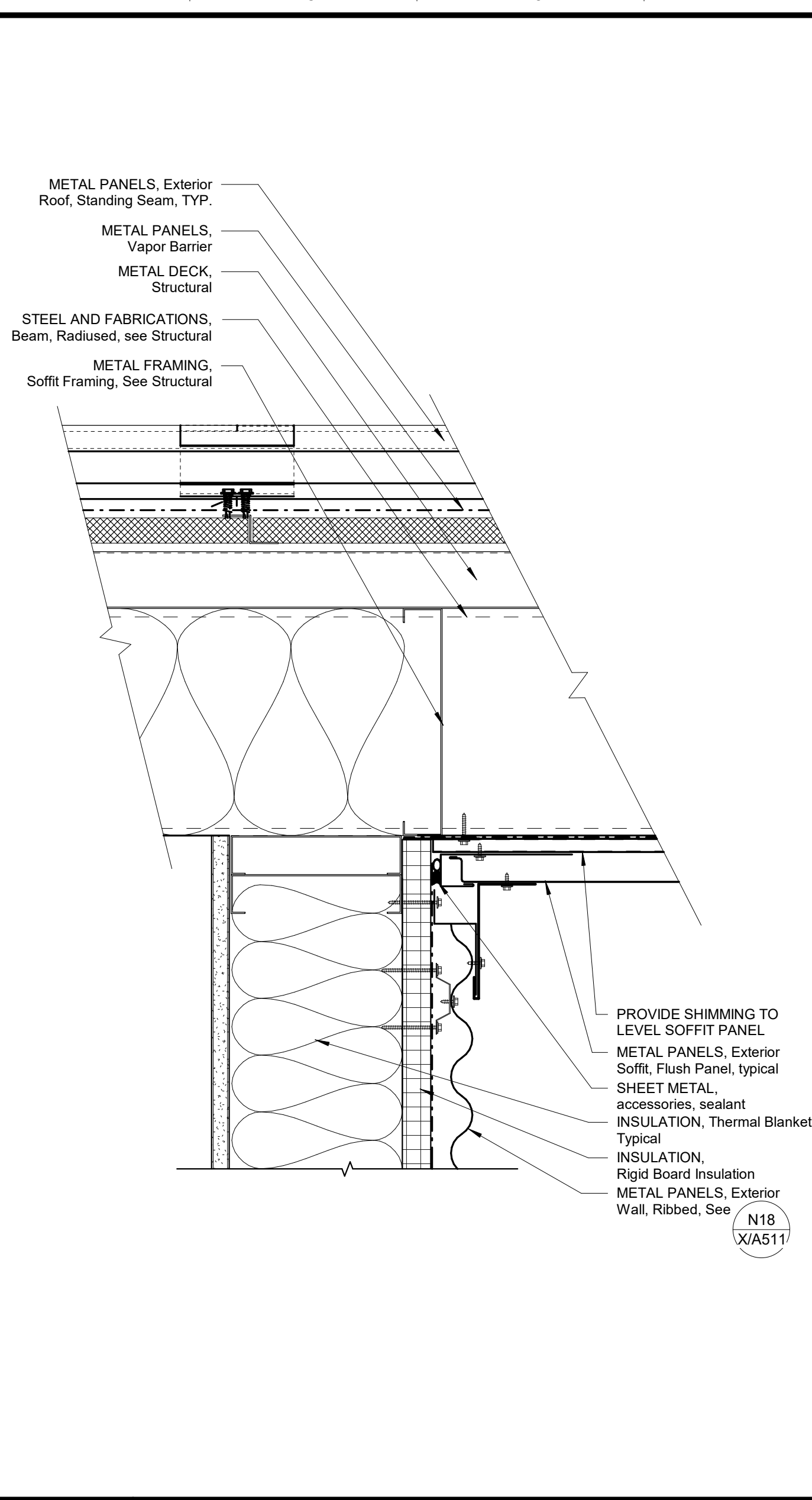
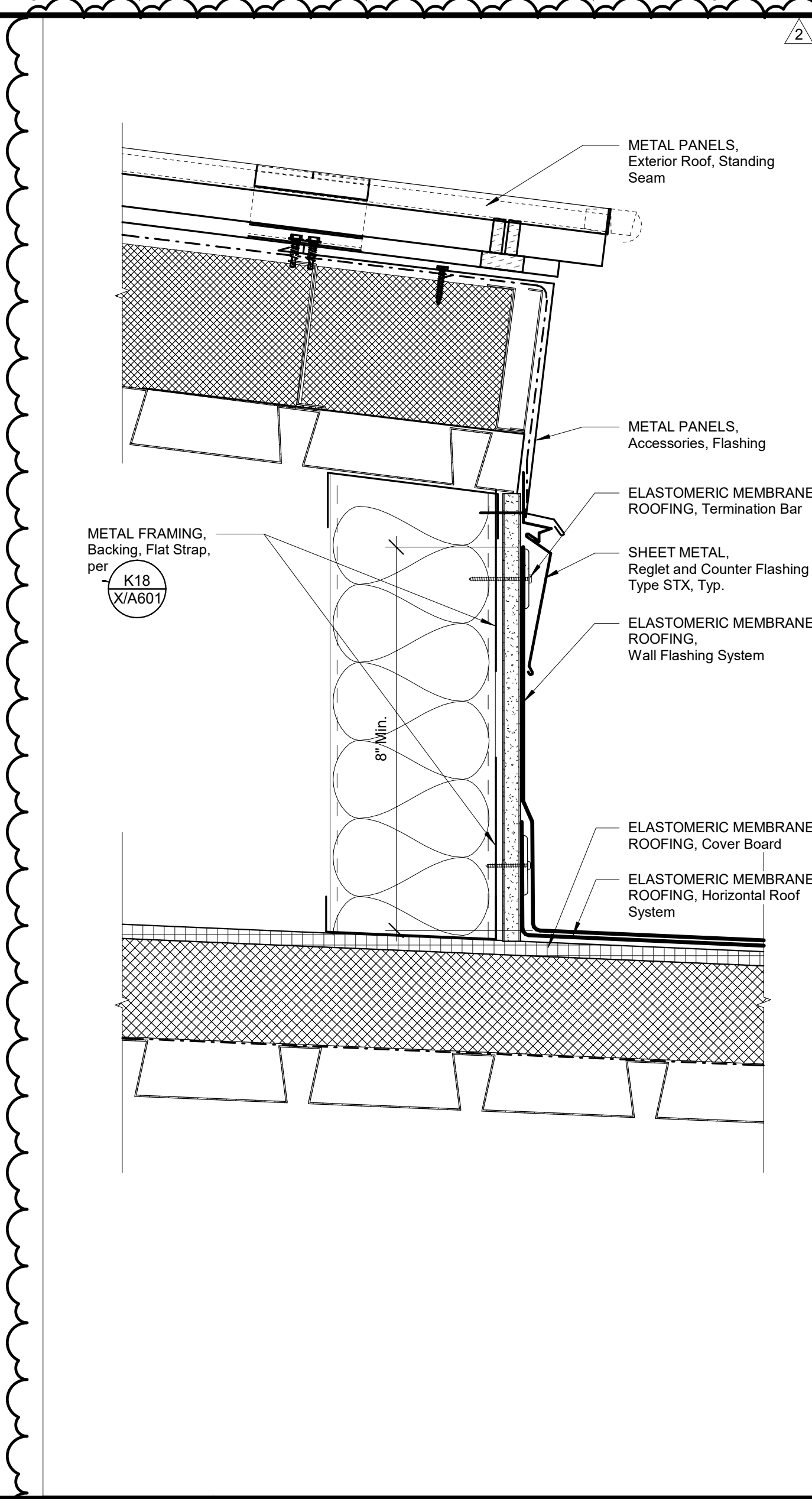
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Drawn By: Author
Checked: X/A431
Reviewed/Approver

Scale: As indicated
Project Number: 2116
Date: 02/15/23

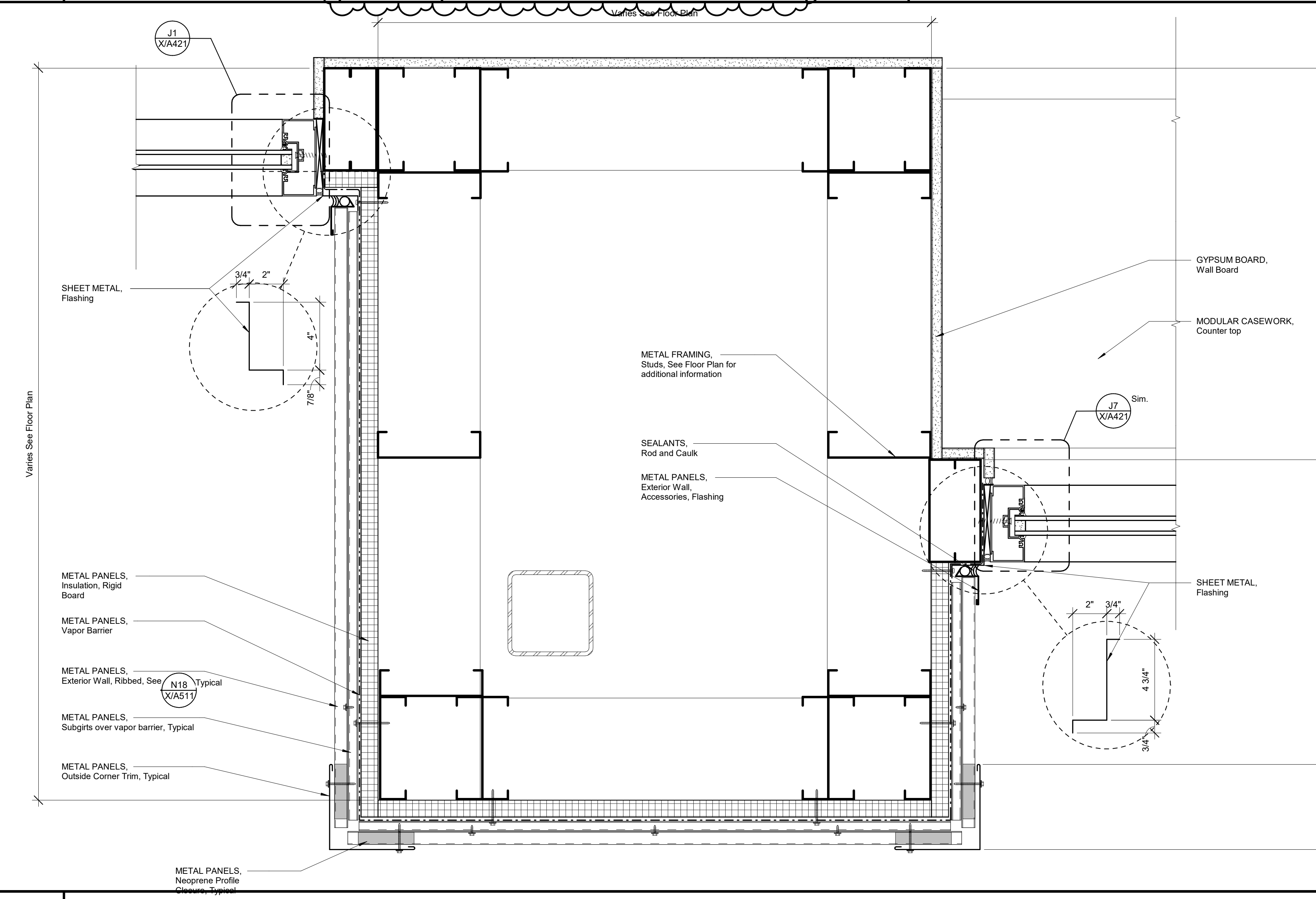
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J10 ELASTOMERIC MEMBRANE ROOFING, Transition to Metal Panel Roof 3" = 1'-0"

J14 METAL PANELS, Metal Panel System to Standing Seam Roof 3" = 1'-0"



A7 METAL FRAMING, Wall Bumpout at Bench 3" = 1'-0"

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

General Notes

Consultant

McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
Fresno, CA 93727

EXTERIOR DETAILS- METAL WALL PANELS
Drawing

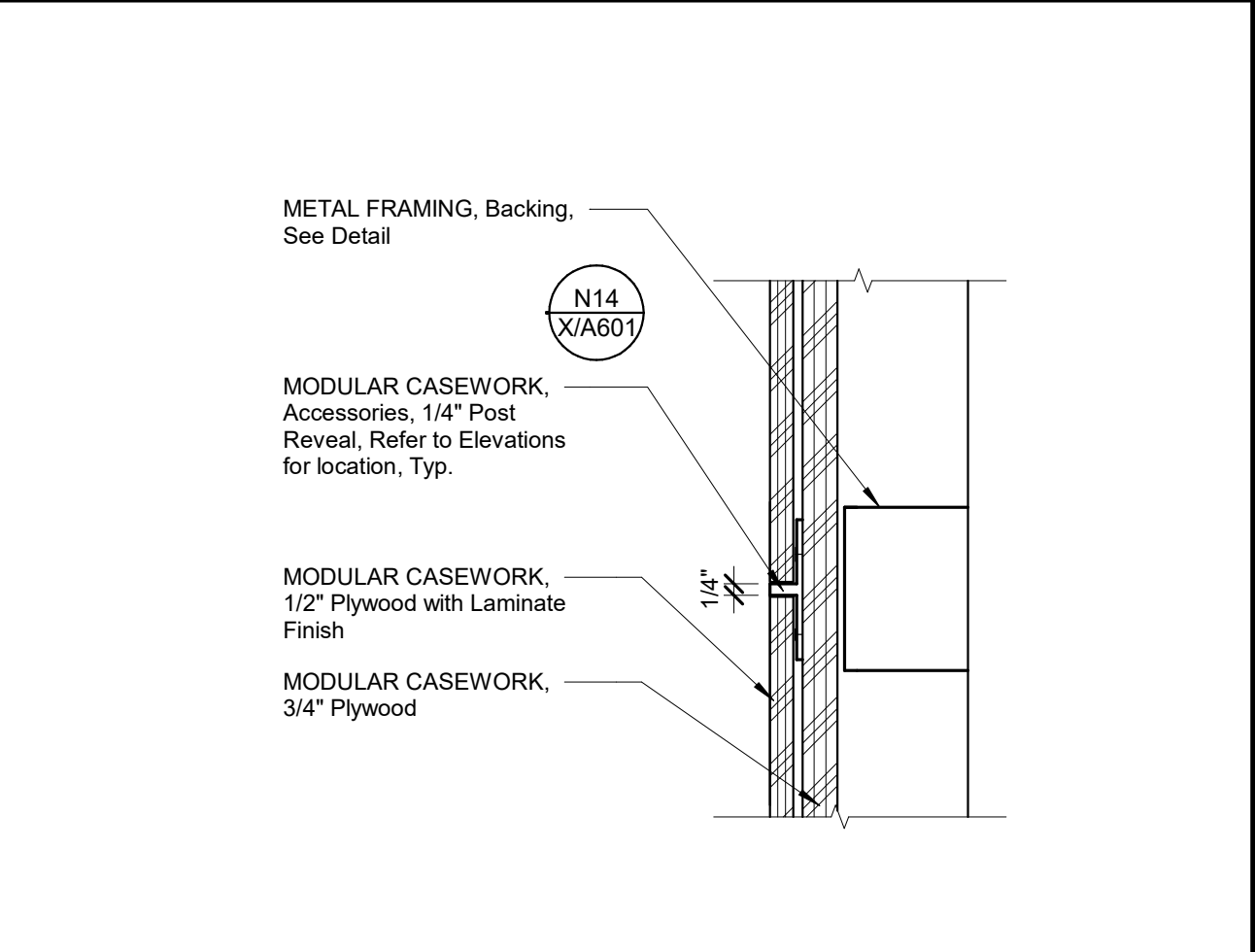
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2	Addendum 2	07/24/23

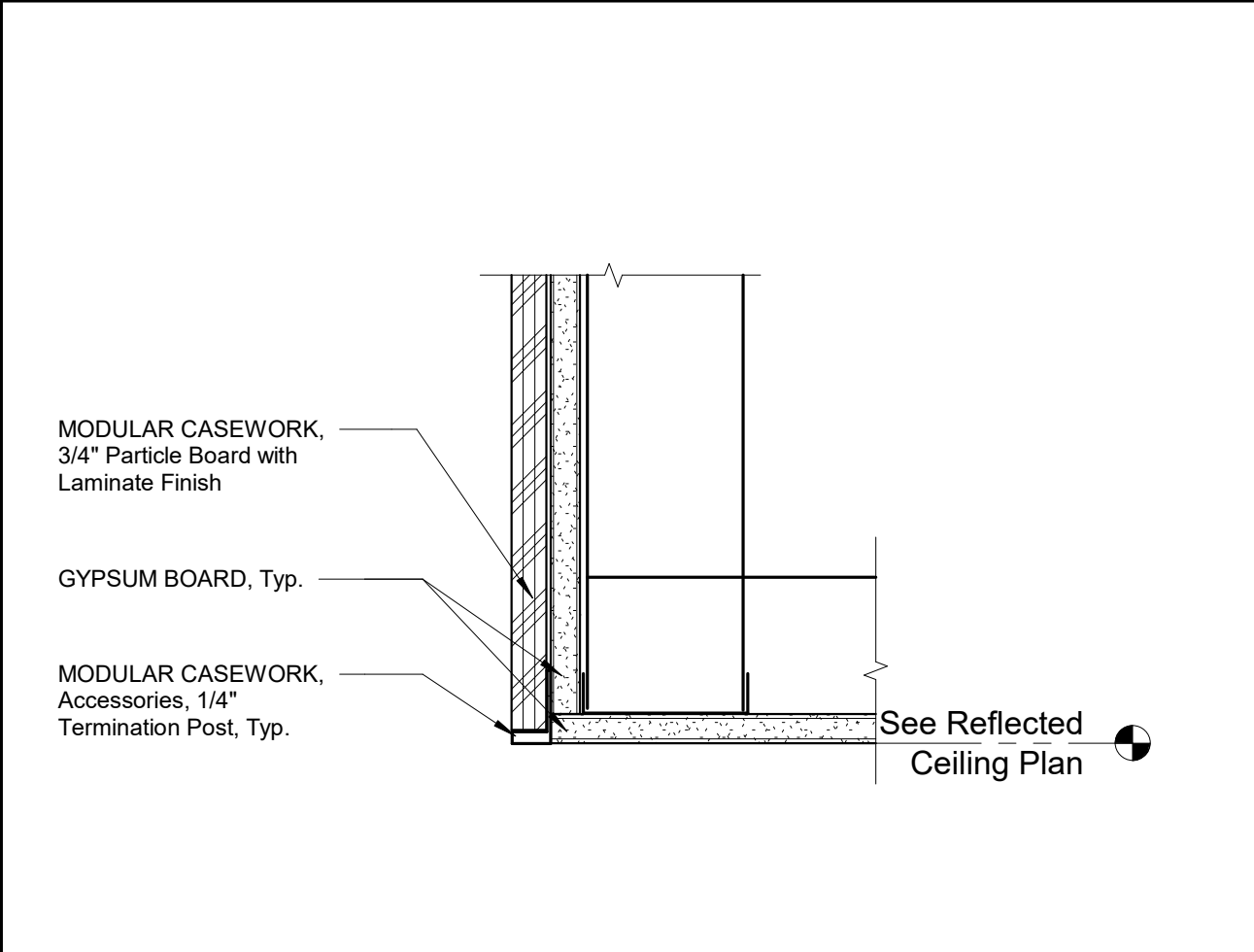
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Scale: 3" = 1'-0"	Drawn By: Author
Project Number: 2116	Checked/Checker
Date: 02/15/23	Review/Approver

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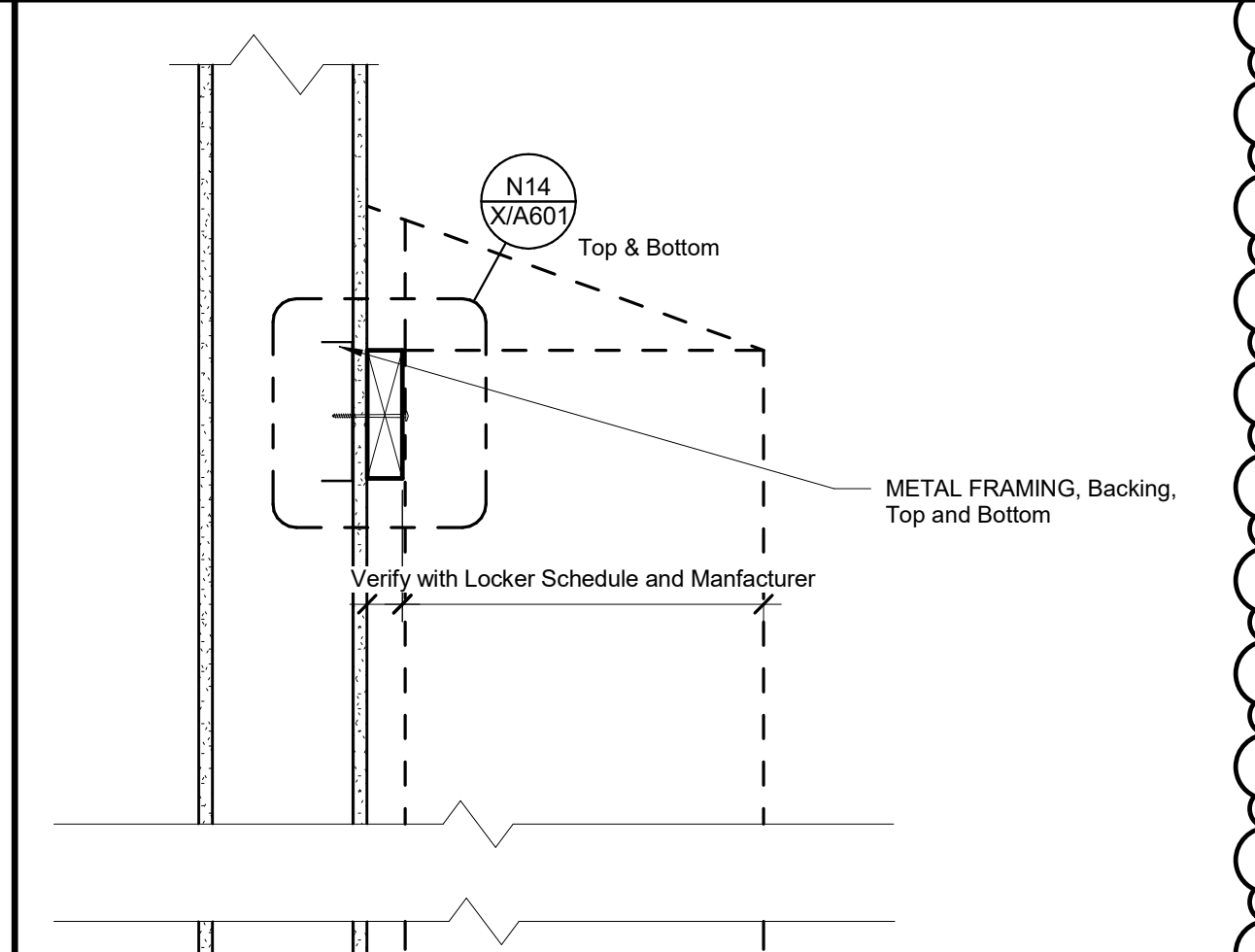
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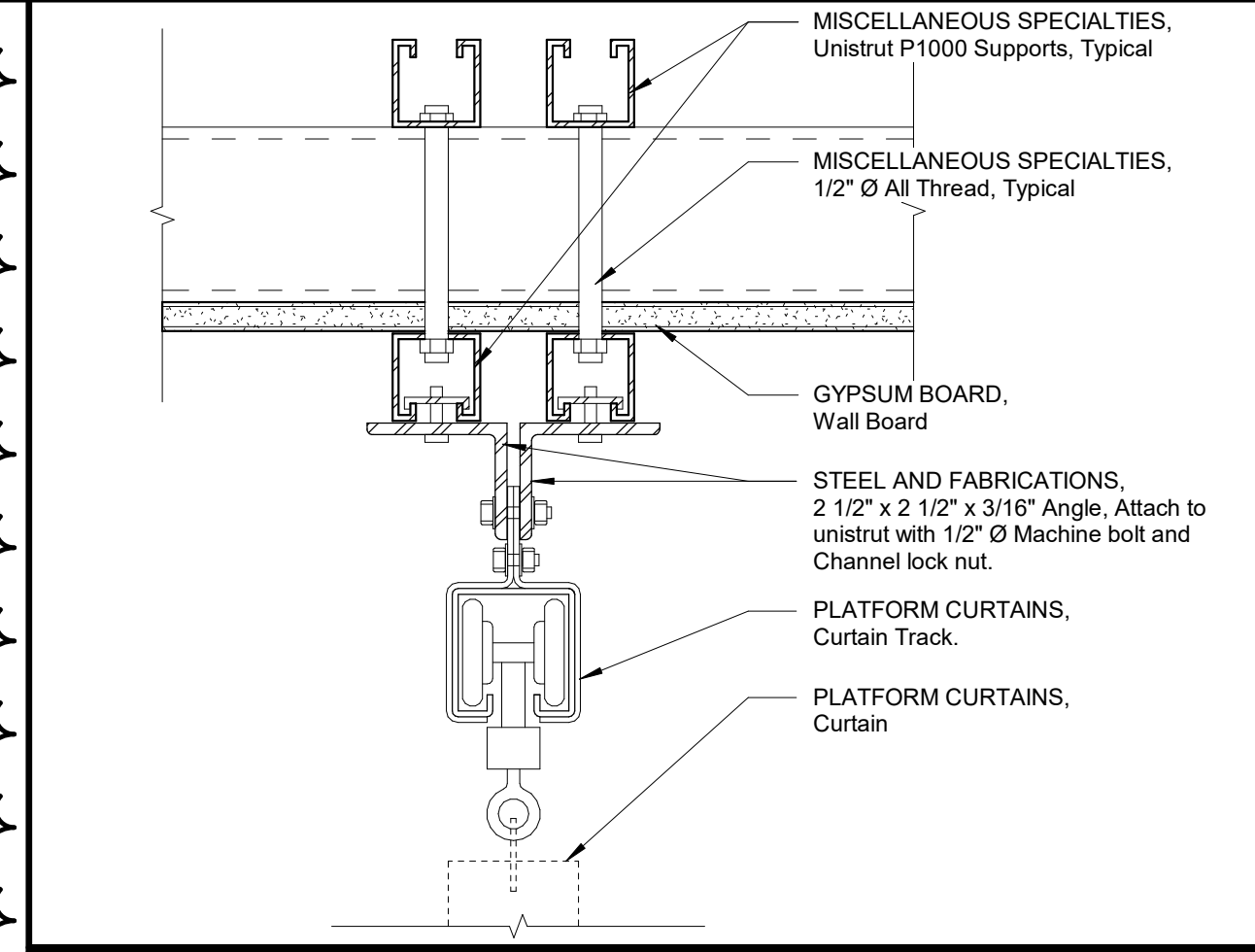
N1 MODULAR CASEWORK, Detail, Accessories, Reveal Post
3" = 1'-0"



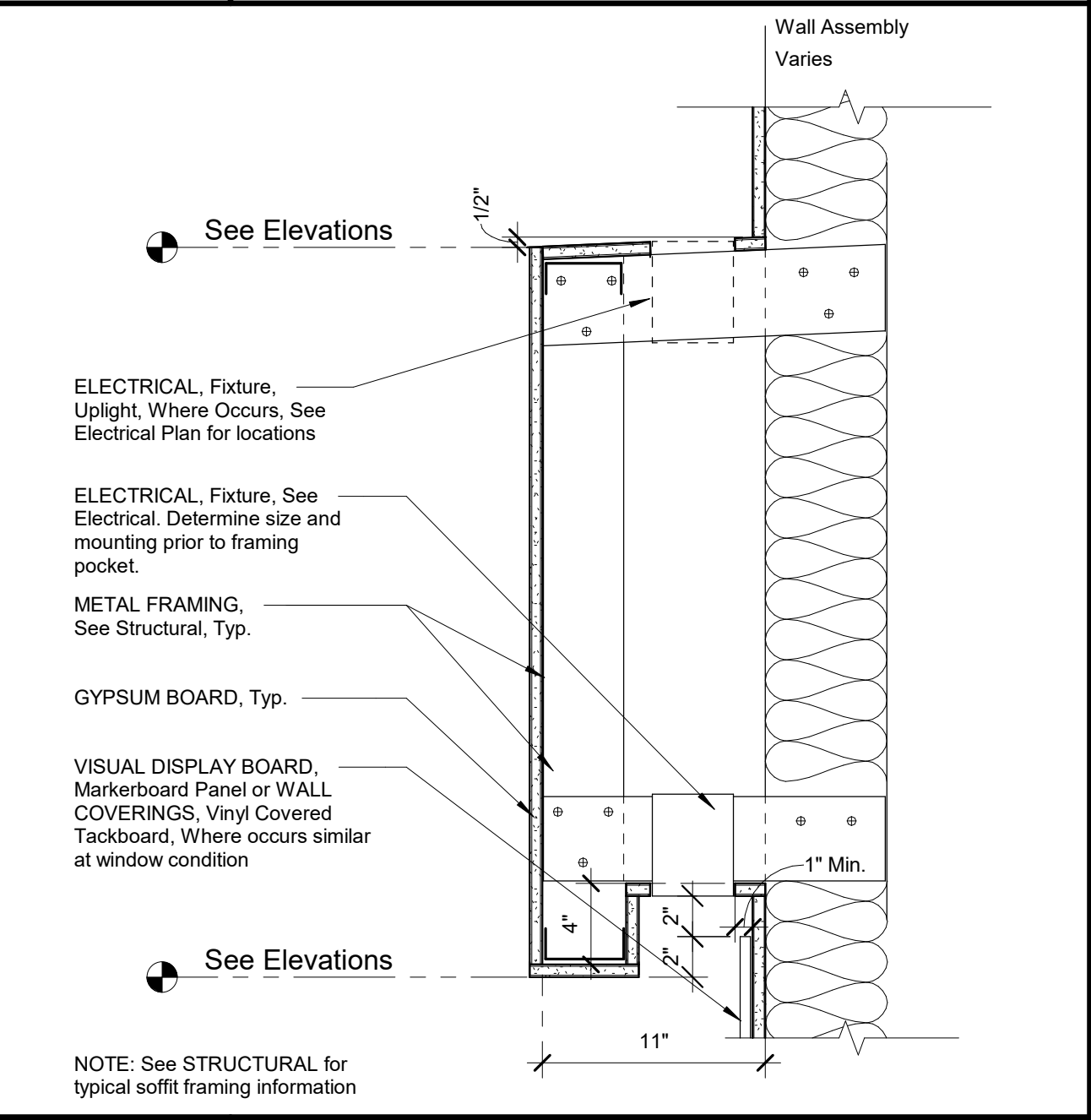
N4 MODULAR CASEWORK, Detail, Accessories, Termination Post
3" = 1'-0"



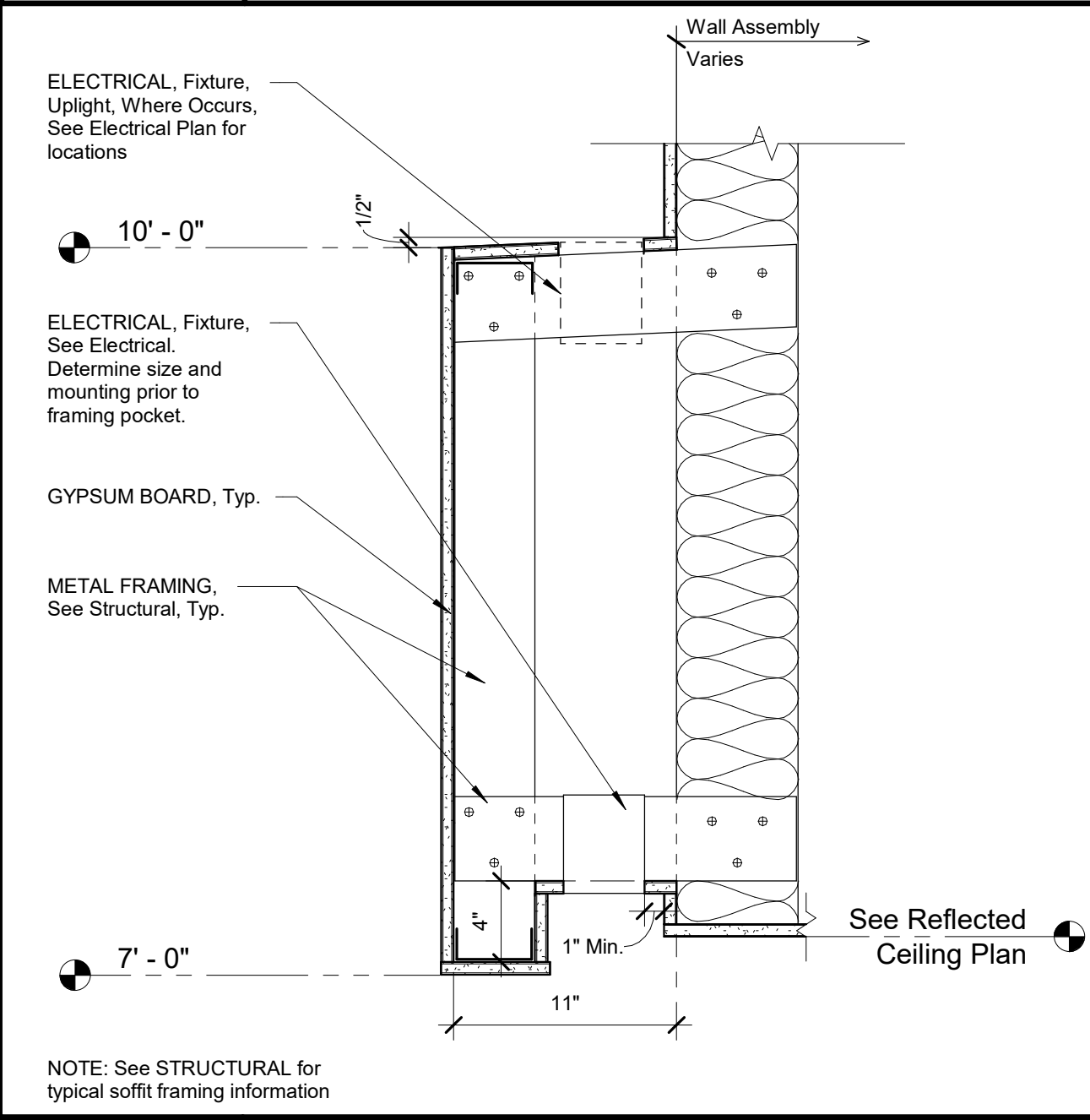
P11 MISCELLANEOUS SPECIALTIES, Stage Curtain Track
3" = 1'-0"



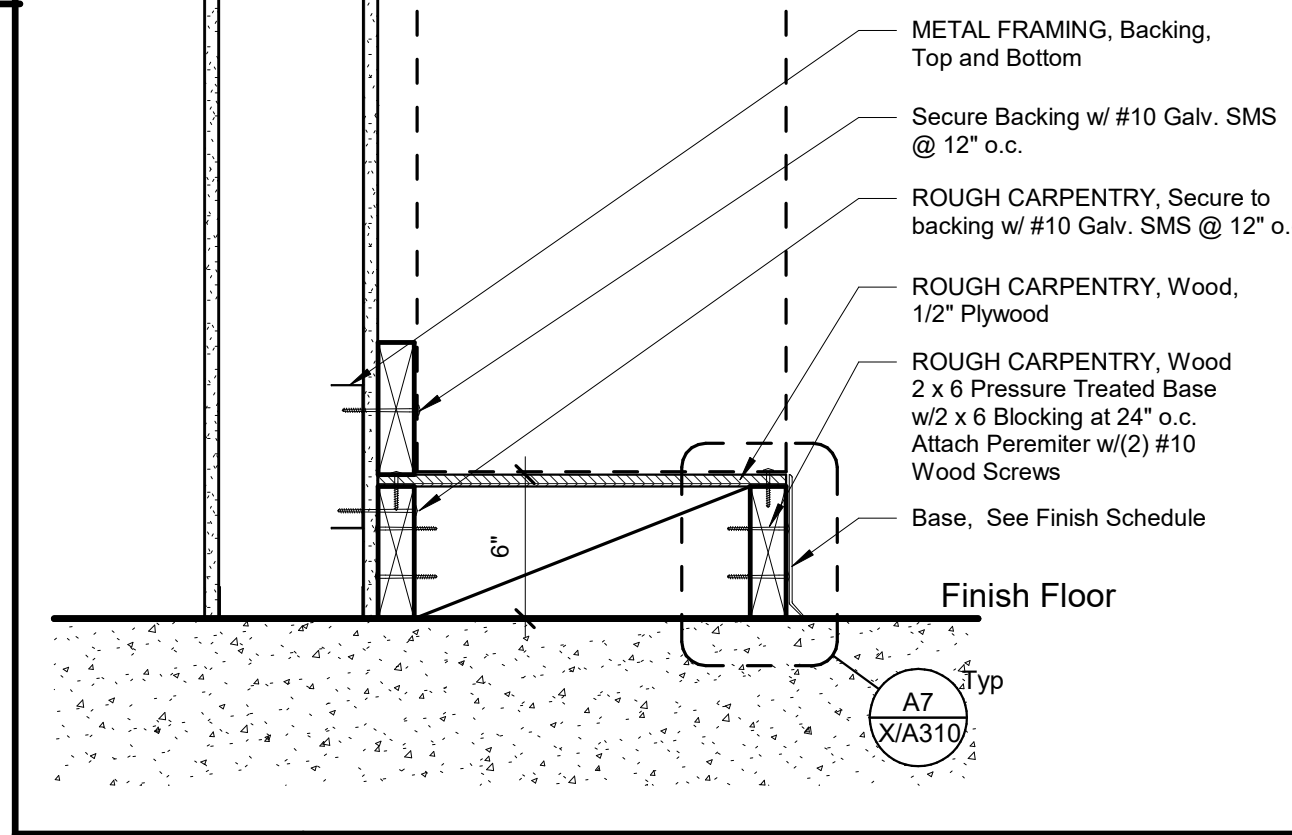
N14 METAL FRAMING, Beam Enclosure
1 1/2" = 1'-0"



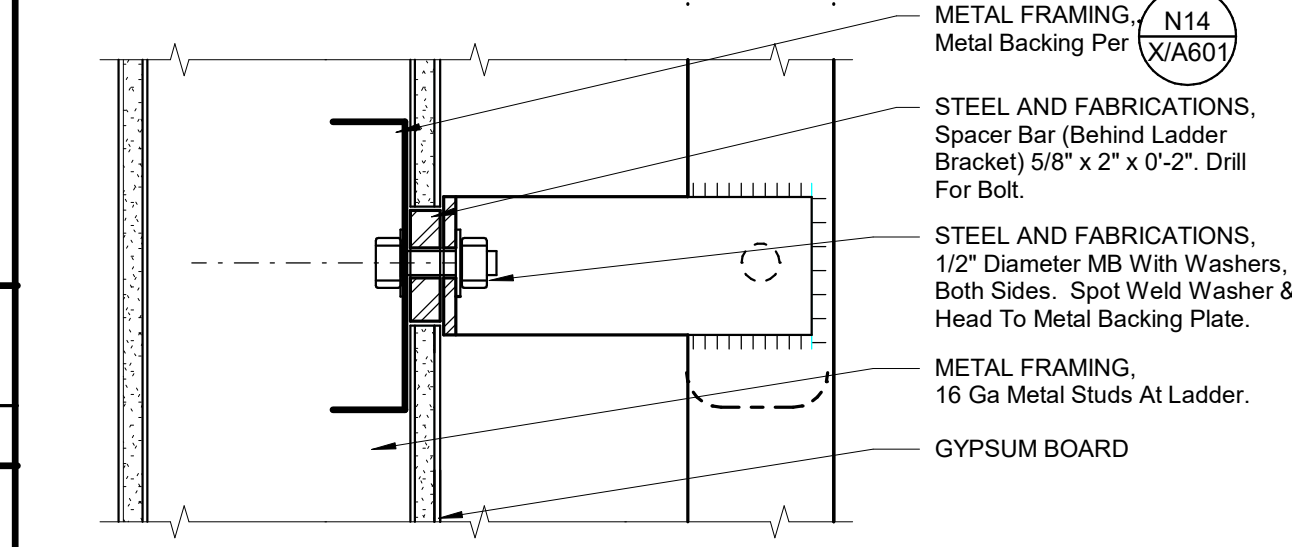
J1 GYPSUM BOARD, Feature Soffit
1 1/2" = 1'-0"



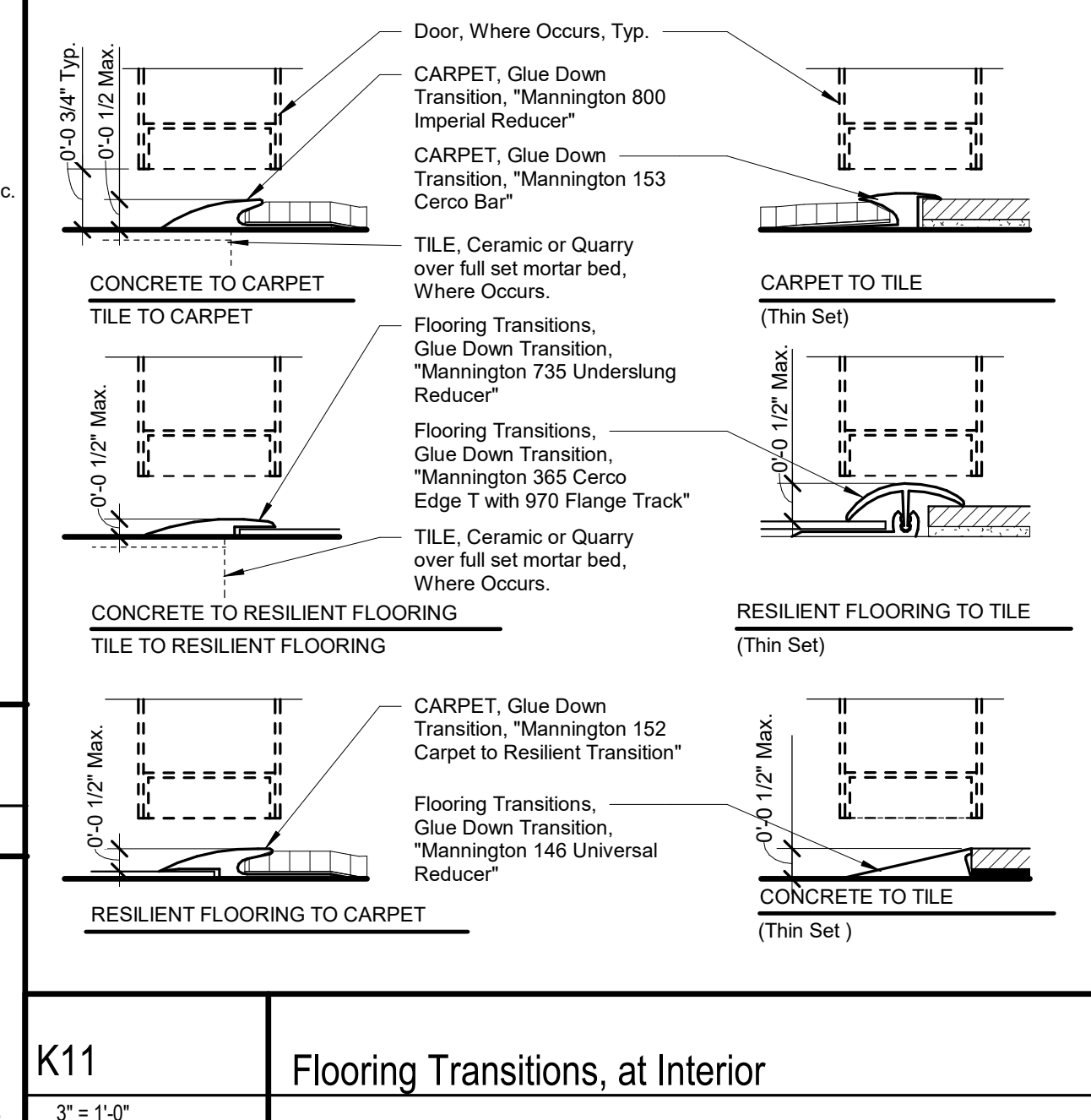
J4 GYPSUM BOARD, Feature Soffit
1 1/2" = 1'-0"



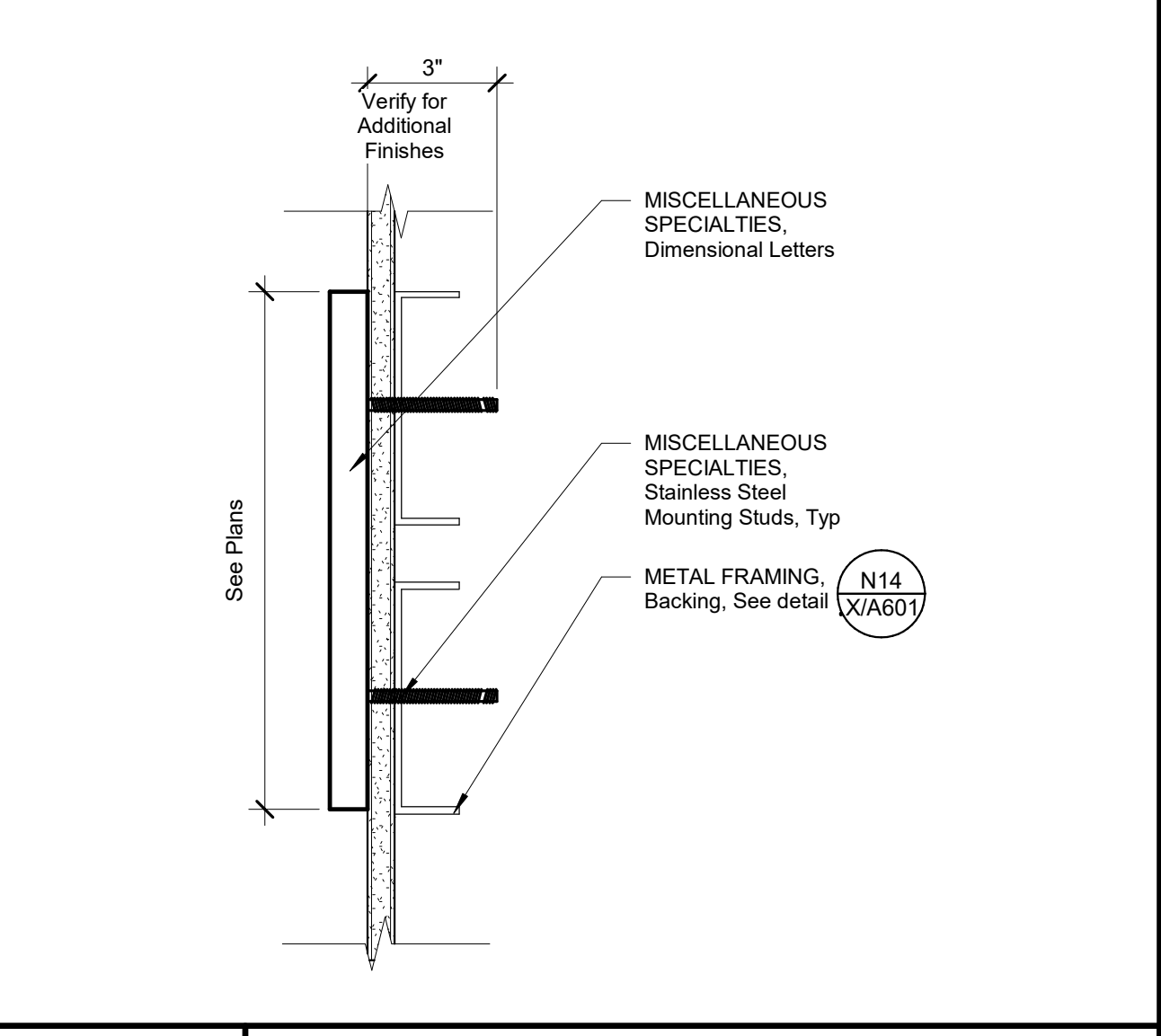
K7 METAL LOCKERS, Base Detail
1 1/2" = 1'-0"



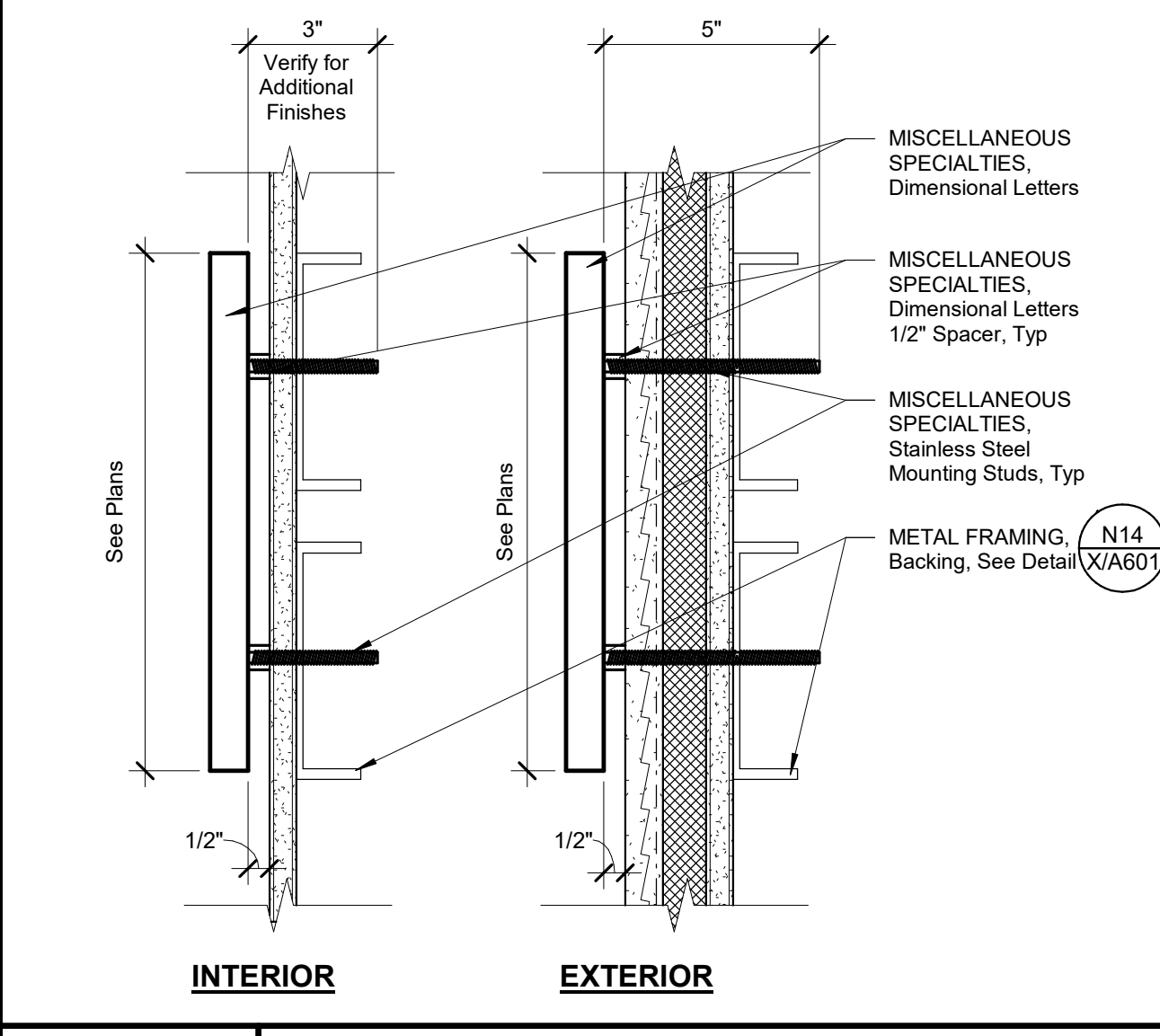
K11 Flooring Transitions, at Interior
3" = 1'-0"



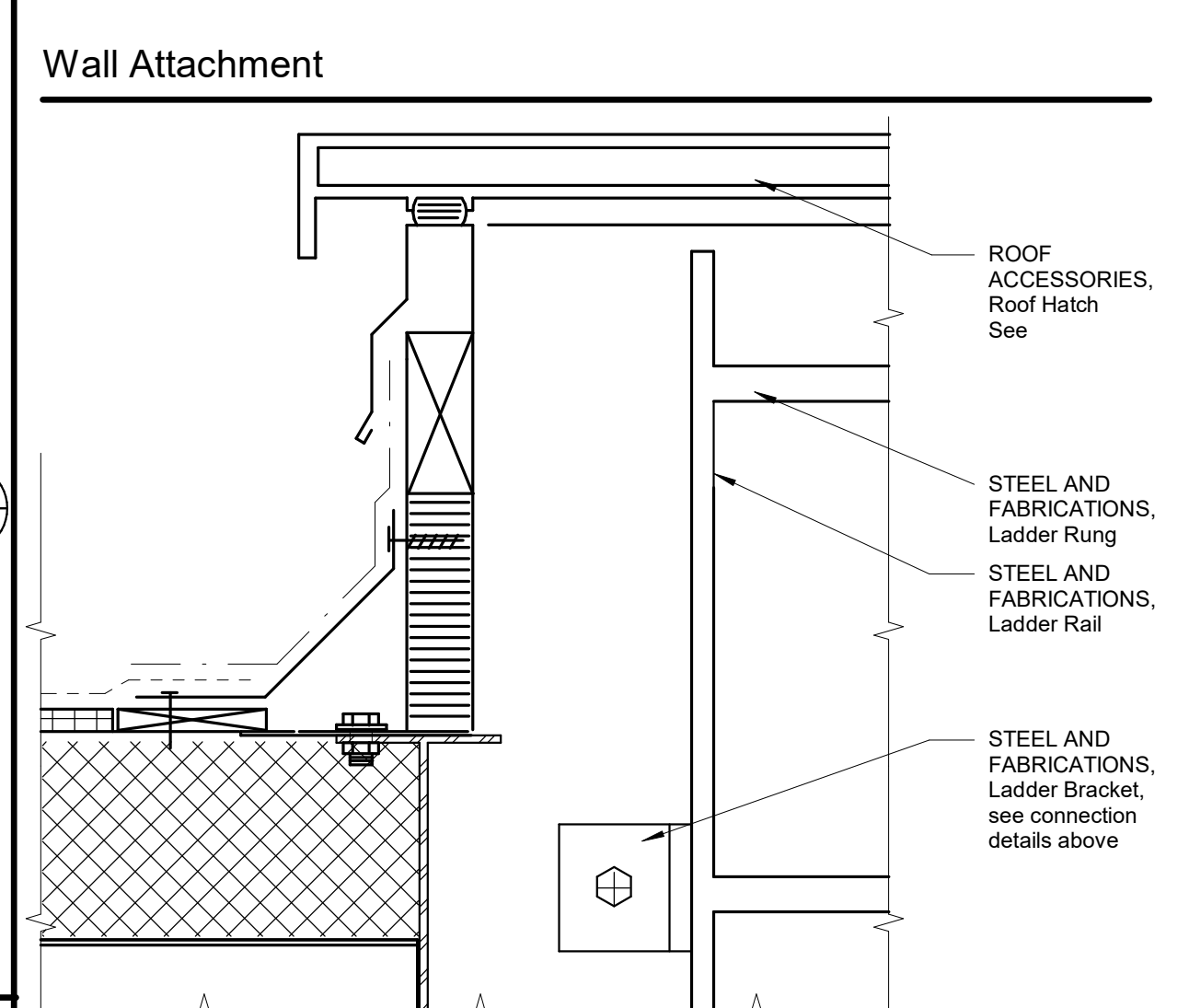
J14 METAL LOCKERS, Bench Pedestal Base Anchor Detail
3" = 1'-0"



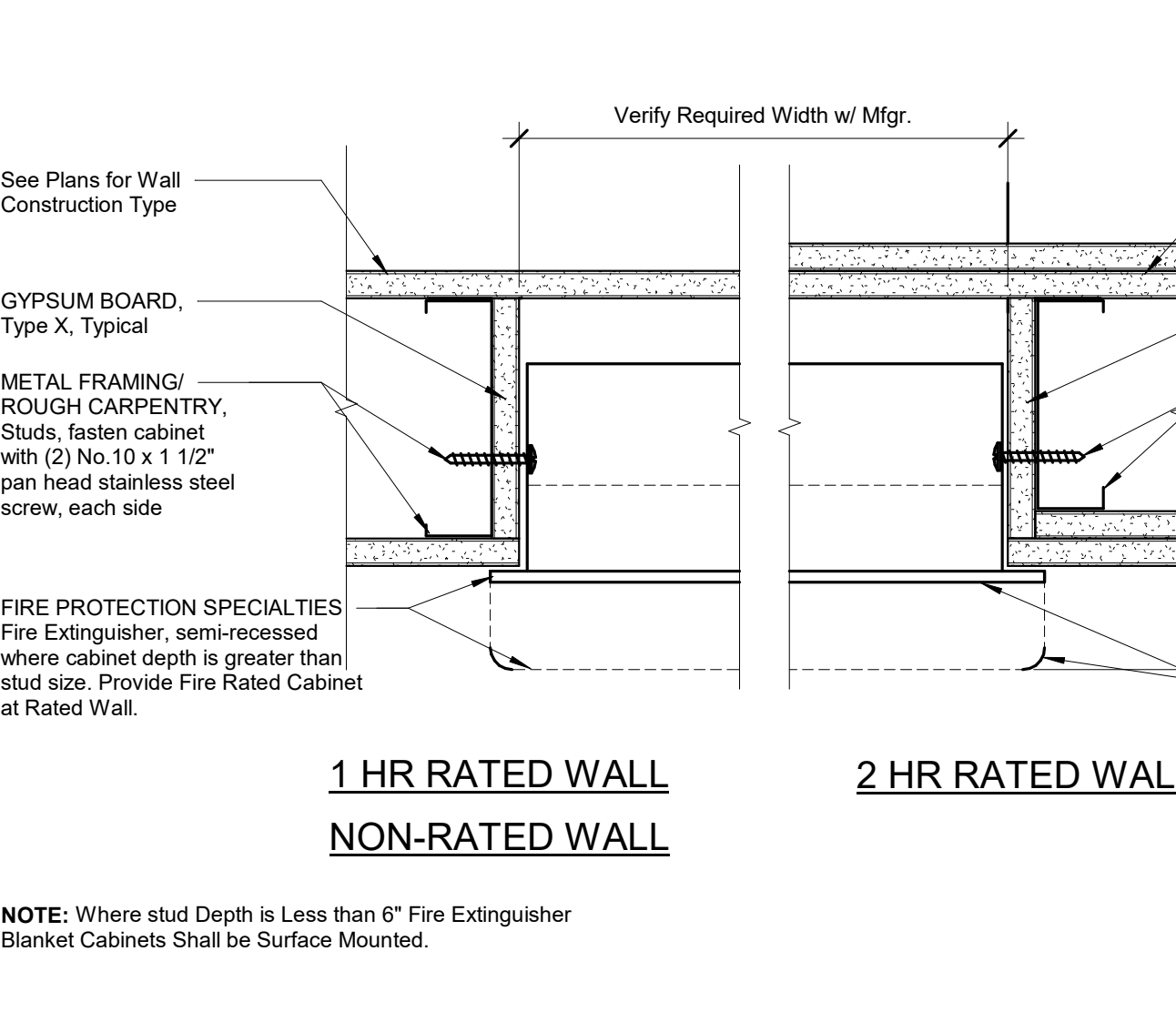
E1 MISCELLANEOUS SPECIALTIES, Dimensional Letters, Flush Wall Mounted
3" = 1'-0"



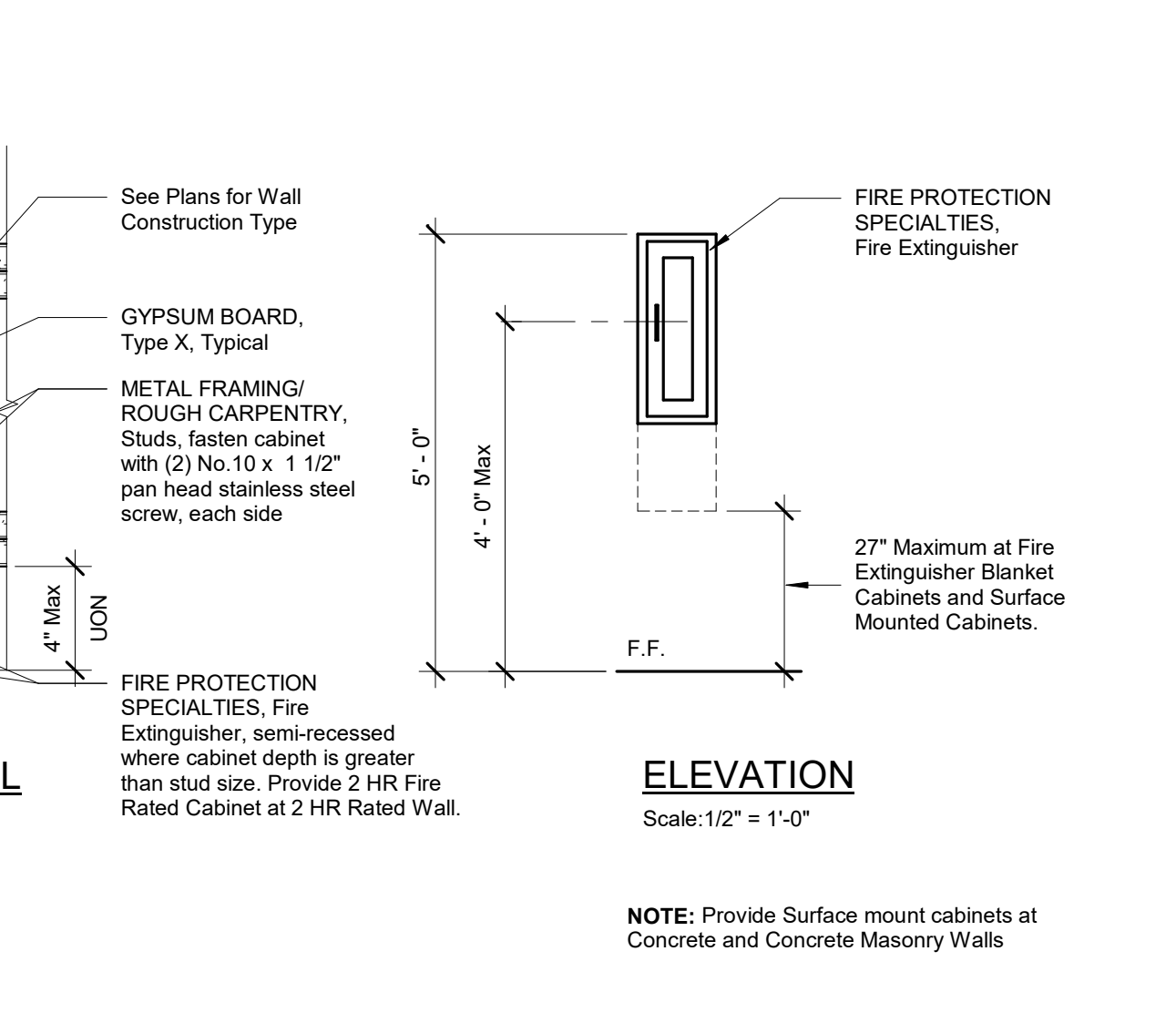
E4 MISCELLANEOUS SPECIALTIES, Dimensional Letters, Wall Mounted
3" = 1'-0"



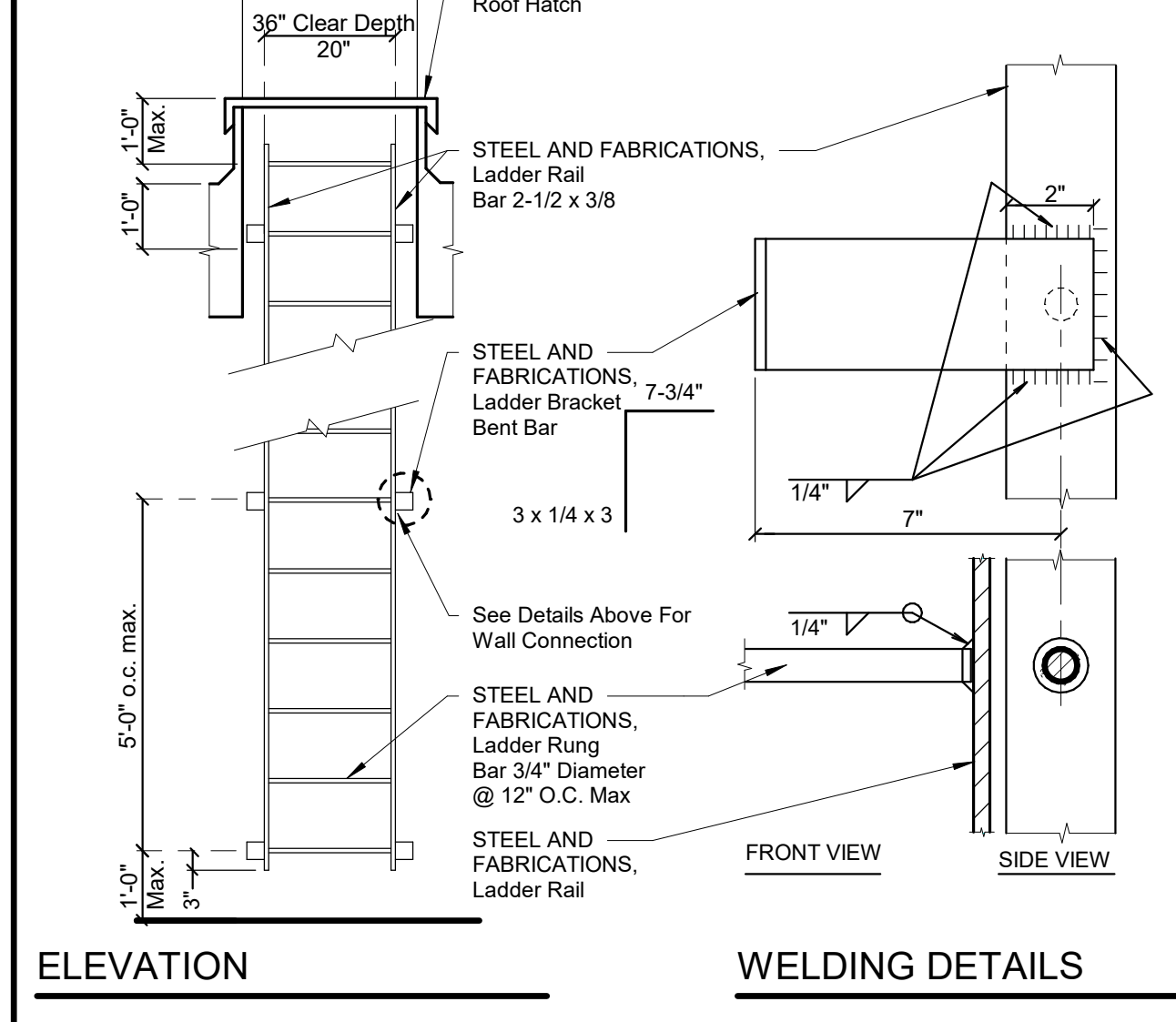
A7 STEEL AND FABRICATIONS, Access Ladder Details
1" = 1'-0"



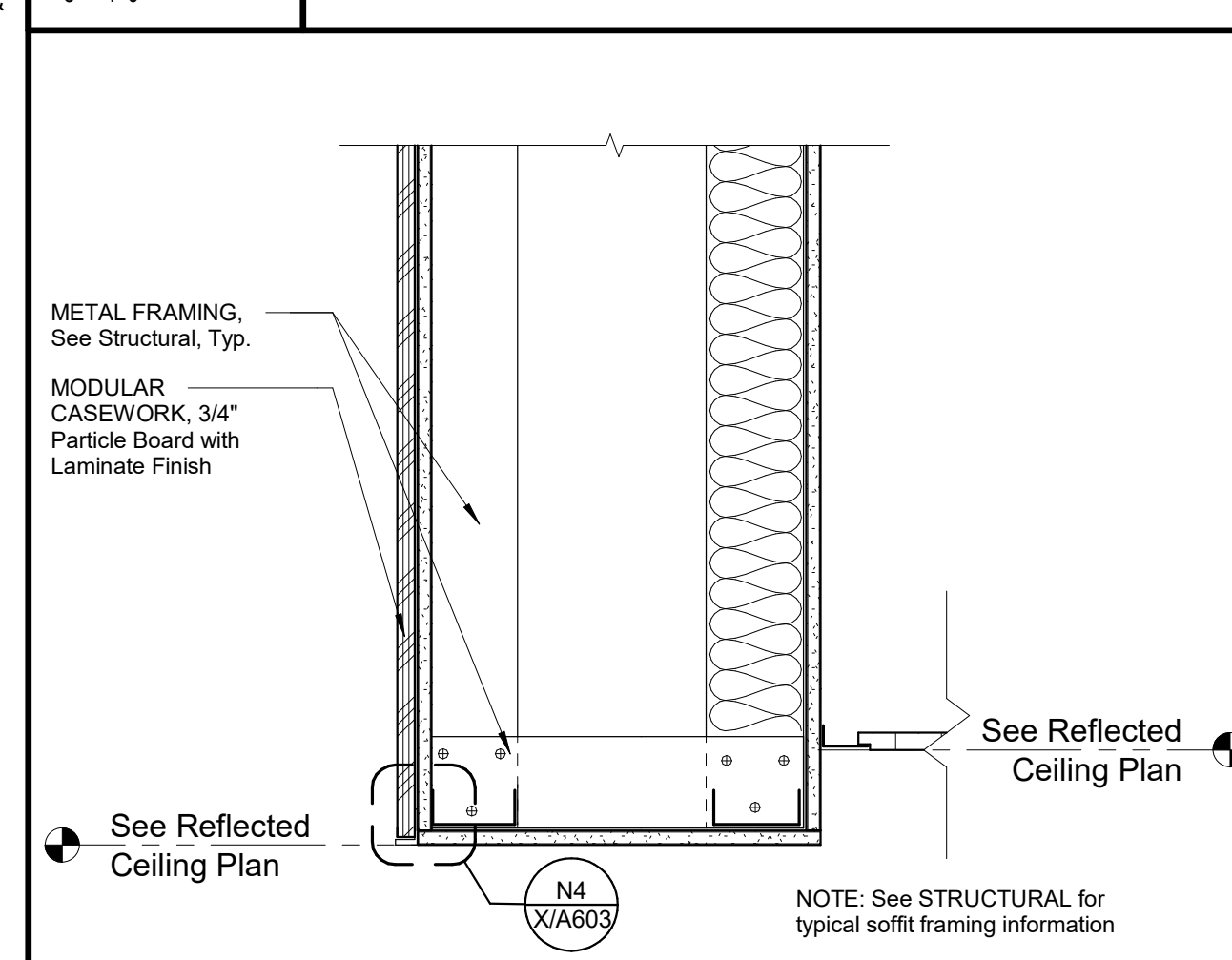
A1 FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinets
3" = 1'-0"



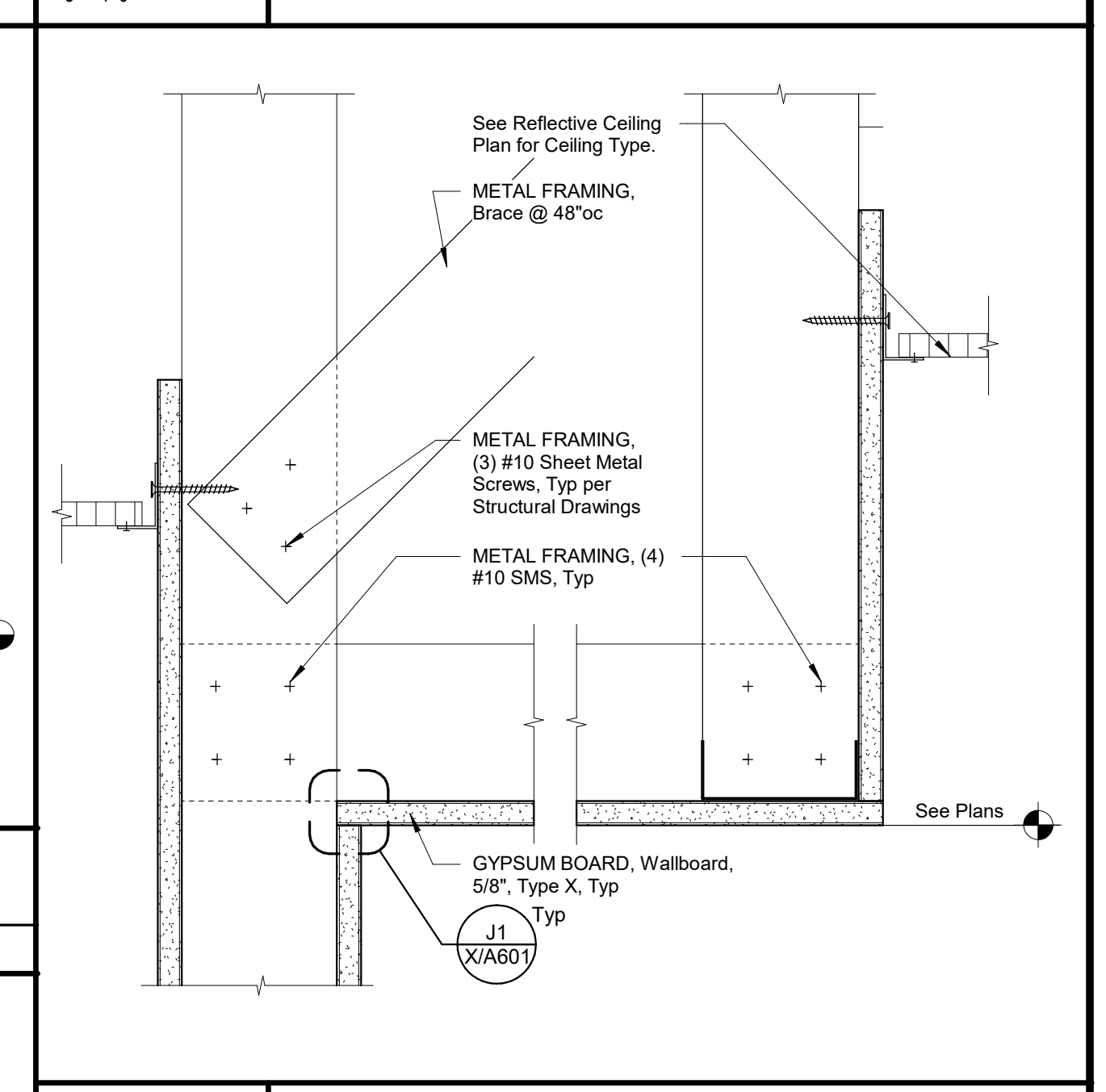
A14 MODULAR CASEWORK, Detail, Accessories, Outer Corner Post
3" = 1'-0"



A11 PLUMBING, High-Lo Drinking Fountain with Water Filling Station
1/2" = 1'-0"



F11 METAL FRAMING, Feature Soffit @ Library
1 1/2" = 1'-0"



E14 METAL FRAMING, Soffit Framing @ Staff Workroom
3" = 1'-0"

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
Fresno, CA 93727
Project

TYPICAL INFORMATION
INTERIOR DETAILS- MISCELLANEOUS
Drawing

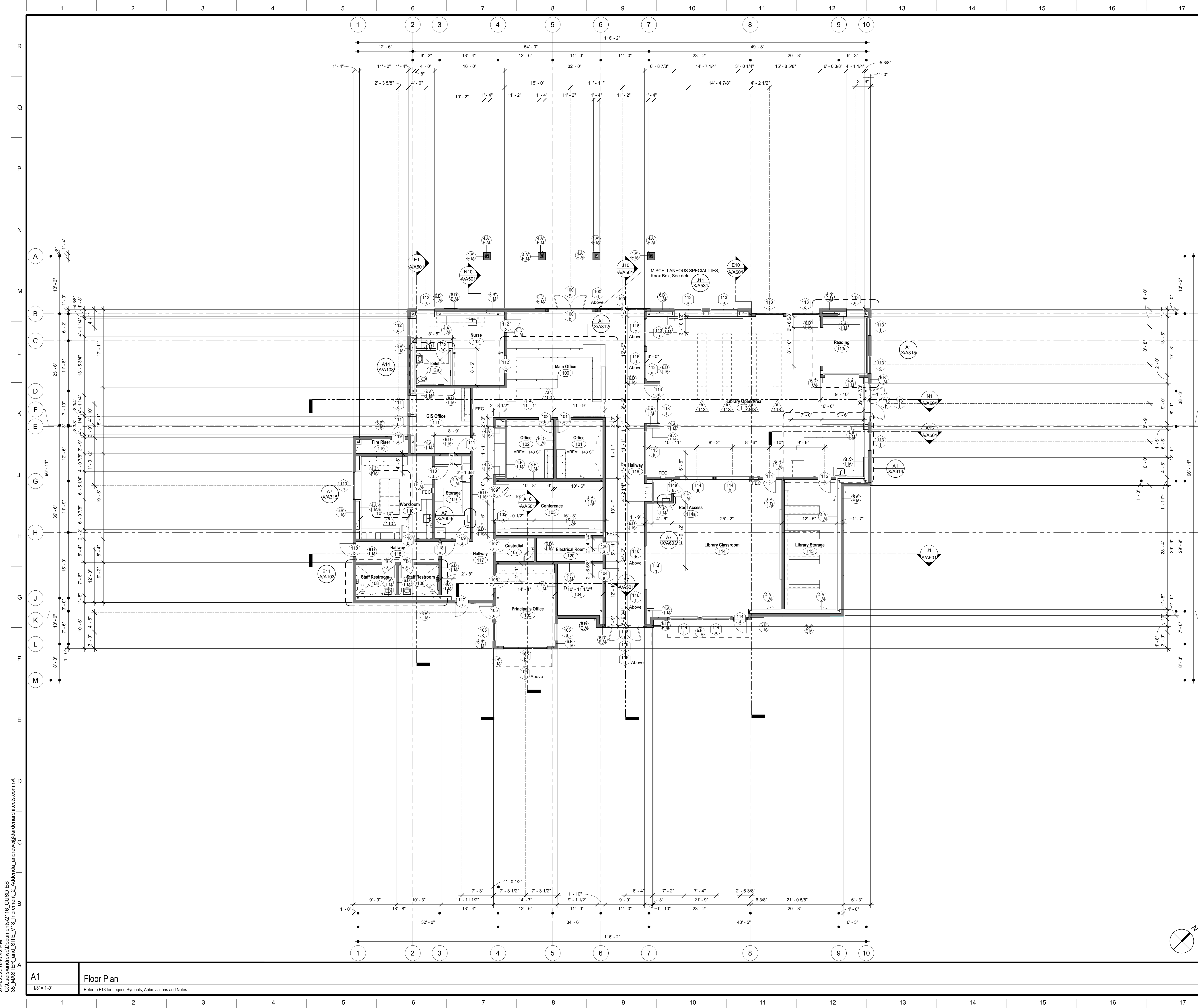
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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Revision

Scale:	As indicated	Drawn By:	Author
Project Number:	2116	Checked/Checker:	X/A603
Date:	02/15/23	Review/Approver:	

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DSA File No.: 10-48
 DSA Application No.: 02-120543
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- SYMBOLS**
- Concrete Masonry Unit Wall, 8" wide unless otherwise noted.
 - Concrete Wall, or Column. Size as indicated.
 - Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Densifying Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.
 - Stud Wall, Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16" o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
 - 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
 - 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
 - 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
 - 2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
 - 2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
 - Reference Grid
 - Opening Group No. Refer to Door or Window Opening Schedules
 - Room name Room Designation
 - Wall Assembly Symbols. Refer to Sheet X/A101
 - Reference Point
 - WALL AND CORNER GUARDS, Corner Guard
 - Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.

- ABBREVIATIONS**
- FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FEC-1, Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 8" and at Masonry Walls. See X/A101, X/A603
 - FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls. See X/A101, X/A603
 - FF Face of Finish
 - FC Face of Concrete
 - FD Floor Drain
 - FCM Face of Masonry
 - FOS Face of Stud
 - FS Floor Sink
 - HB Hose Bib
 - MG Masonry Opening
 - UNO Unless Noted Otherwise
 - RO Rough Opening
 - VCT RESILIENT FLOORING, Vinyl Composition Tile
 - Typ Typical
 - Sim. Similar
 - OH Opposite Hand

- NOTES**
- All Exterior Walls shall be Wall Assembly Type (E.B.M) Unless Noted Otherwise.
 - All Interior Walls shall be Wall Assembly Type (E.D.M) Unless Noted Otherwise.
 - All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
 - All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
 - Dimensions noted as "n/a" are nominal.
 - Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall. Unless Noted Otherwise, Floors must be sloped at a min. of 1:50 to the floor drains.
 - IDENTIFYING DEVICES, For Room Signage refer to E11, X/A601 and Specifications
 - FIRE RESISTIVE ASSEMBLIES:
 - All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.
 - All Walls of Fire and/or Smoke Resistive Construction Shall be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "R" HOUR RATED, PROTECT ALL OPENINGS. Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "R" indicates the hourly rating of the wall or partition.

F18	Floor Plan Legend
No Scale	

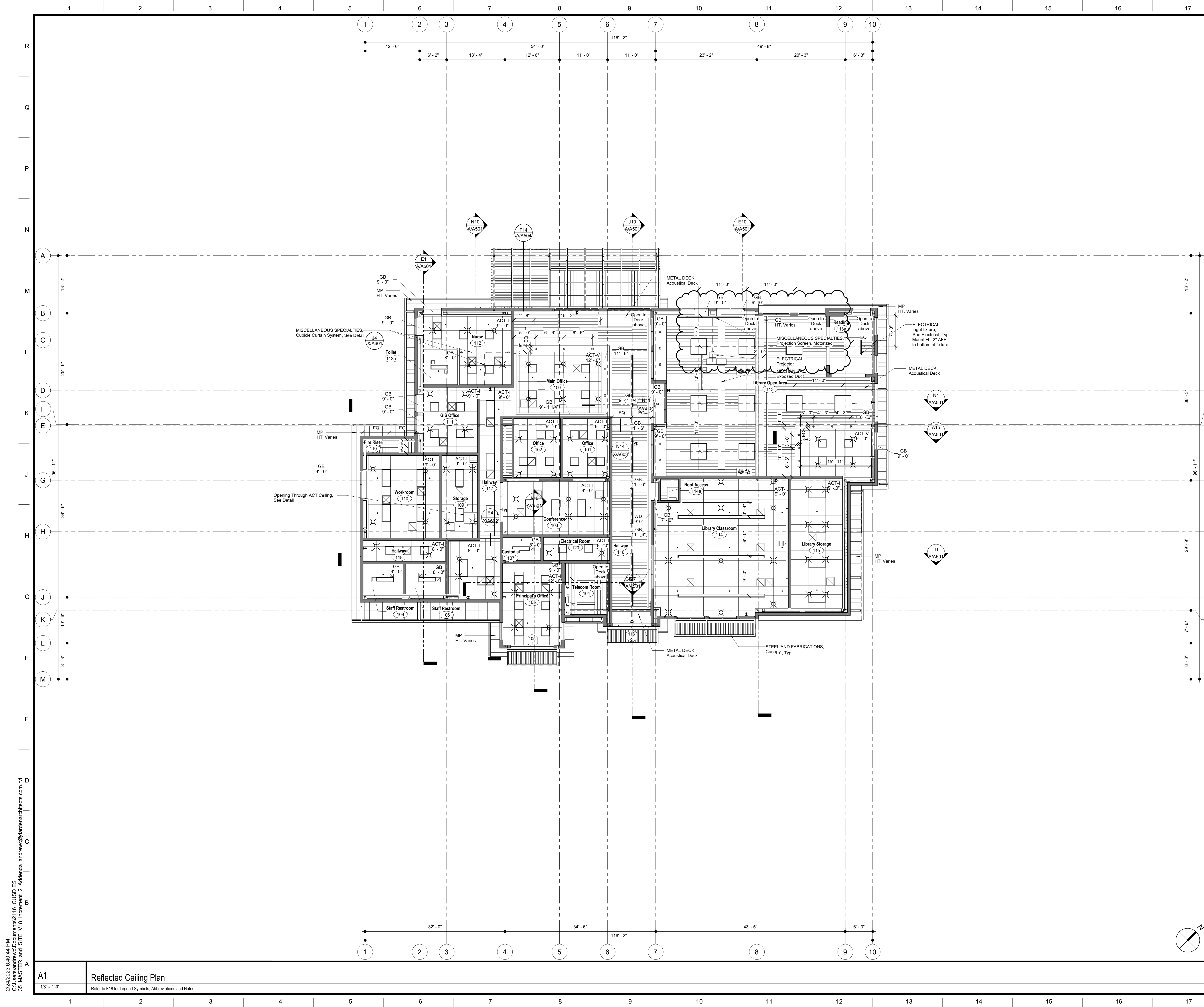
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 Clovis Unified School District
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BUILDING A - ADMINISTRATION
 FLOOR PLAN
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A1 Floor Plan
 Refer to F18 for Legend Symbols, Abbreviations and Notes



DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

- SYMBOLS**
- MECHANICAL, Air Supply Grill
 - MECHANICAL, Air Return Grill
 - MECHANICAL, Strip Grill
 - MECHANICAL, Exhaust Fan
 - FIRE PROTECTION, Fire Sprinkler Head
 - PLUMBING, Overflow Drain
 - ACOUSTICAL CEILINGS, Suspended Ceiling Compression Strut Splay Wire Location
 - ROOF ACCESSORIES, Roof Hatch
 - ELECTRICAL, Light Fixture, Recessed. Unless Noted Otherwise.
 - (s) = Surface Mounted
 - ELECTRICAL, Light Fixture, Exit Sign
 - ELECTRICAL, Fire Alarm Device, Heat Detector
 - ELECTRICAL, Fire Alarm Device, Smoke Detector
 - ELECTRICAL, Speaker
 - CEMENT PLASTER, Cement Plaster System
 - GYPSUM BOARD, Refer to Interior Finish Schedule
 - ACOUSTICAL CEILINGS, Refer to Plan for Type.
 - ACOUSTICAL CEILINGS, Refer to Plan for Type.
 - Metal Deck
 - PLUMBING, Roof Drain, Refer to Plumbing.
 - ACCESS DOORS AND FRAMES, Access Doors, Ceiling (20" X 30"), UNO
 - 1 Hr. Corridor Wall - 1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies
 - 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
 - 1 Hr. Occupancy Separation / Fire Partition - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
 - 2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Opening Assemblies)
 - 2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Opening Assemblies)
 - Reference Point

- ABBREVIATIONS**
- ACT ACOUSTICAL CEILINGS, Tile, Suspended, Unless Noted Otherwise.
 - CLG Ceiling
 - CP CEMENT PLASTER, System
 - EQ Exciting
 - GB GYPSUM BOARD, Type 'X', Unless Noted Otherwise.
 - GLB GLUE-LAMINATED CONSTRUCTION, Beam
 - HT Height
 - MD METAL DECK
 - TYP Typical
 - SIM Similar
 - OH Opposite hand
 - DS Downspout
 - OD Overflow Drain
 - UNO Unless Noted Otherwise

- NOTES**
1. ACOUSTICAL CEILINGS, For typical suspended ceiling support and bracing, Refer to
 2. Gypsum Board Ceilings Noted As "CLG HT Varies", Gypsum Board is attached to bottom side of framing joists, UNO
 3. Ceiling Heights indicated are above Finish Floor at each floor level, UNO.
 4. Where Fire Sprinklers occur at Acoustic Tile, Sprinkler Heads shall be centered in the Tile.
 5. Not all fire Sprinkler Head locations are shown to provide code required coverage. But locations shown are intended to convey design intent. Coordinate with FIRE PROTECTION.
 6. See Structural for framing of soffits and ceilings
 7. Single Lights or Single Rows of Lights at Soffit/ Ceilings shall be centered, UNO.

E18	Reflected Ceiling Plan Legend
No Scale	

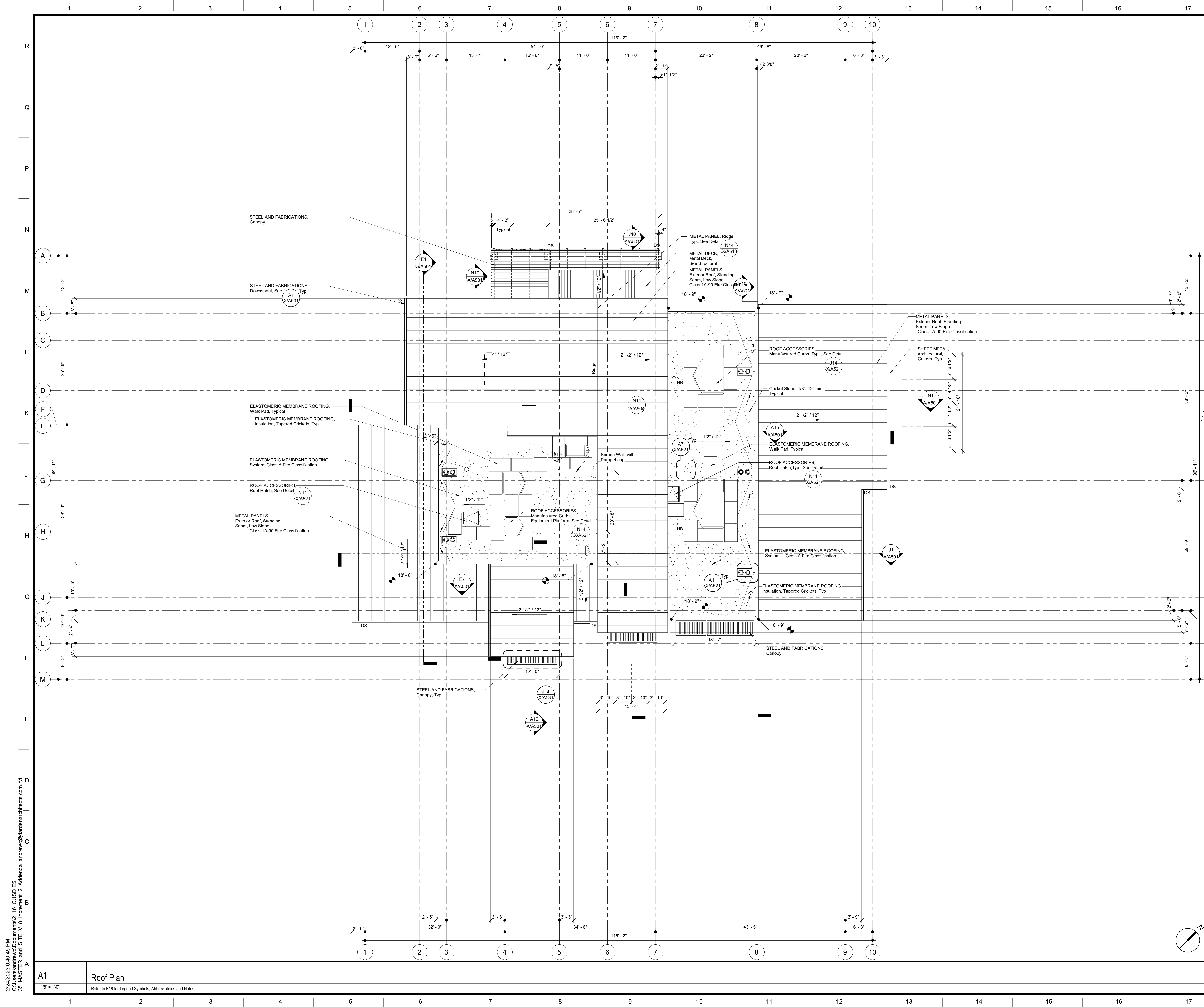
McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District
 Fresno, CA 93727
BUILDING A- ADMINISTRATION
 REFLECTED CEILING PLAN
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1	Addendum 1	02/17/23
Revision		
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Date: 02/15/23	Review/Approver	

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A1 Reflected Ceiling Plan
 1/8" = 1'-0"
 Refer to F18 for Legend Symbols, Abbreviations and Notes



DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

- SYMBOLS**
- PLUMBING, Roof Drain and Overflow, See Detail A11 X/A521 Typ
 - ROOF ACCESSORIES, Roof Hatch, See Detail N11 X/A521
 - PLUMBING, Vent, See Detail A7 X/A521 Typ
 - +14'-6" TOP Elevation above finish floor
 - Slope (DN) Direction of slope
 - Line of Wall below
 - Reference Point
 - LOUVERS
 - Opening Group No. Refer to Door or Window Opening Schedules

- ABBREVIATIONS**
- TOP Top of Parapet Framing
 - FO Face of Framing
 - OD PLUMBING, Overflow Drain
 - TOB Top of Parapet Roof Framing
 - TOF Top of Framing
 - RD PLUMBING, Roof Drain
 - TOM Top of Masonry
 - OH Opposite Hand
 - DS Downspout, See A1 X/A531
 - FOS Face of Stud
 - TOS Top of Steel
 - Sm Similar
 - Typ. Typical

- NOTES**
- Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all roof penetrations and roof mounted equipment. For appropriate details, Refer to E7 X/A521, N14 X/A521, J7 X/A521, J11 X/A521, J14 X/A521 Unless Otherwise Noted.
 - Roof Slope and Crickets shall be constructed with tapered insulation to achieve slope as required.
 - When indicated, SHEET METAL, Reglet and Counter Flashing occurs at the Back Side and/or the Front Side of Parapet Walls. At each roof level such Reglet elevations shall be determined based upon the details of construction, and be installed at the same horizontal level.
 - SHEET METAL, Counter Flashing Boots shall be installed at all intersecting parapets that have different parapet heights. For conditions requiring such boots, refer to Detail A1 X/A501, E1 X/A501, J1 X/A501, N1 X/A501

F18 Roof Plan Legend
No Scale

McKinley/Fowler Elementary School- Increment 2
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Fresno, CA 93727

BUILDING A- ADMINISTRATION
ROOF PLAN
Drawing

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Date: 02/15/23	Review/Approver

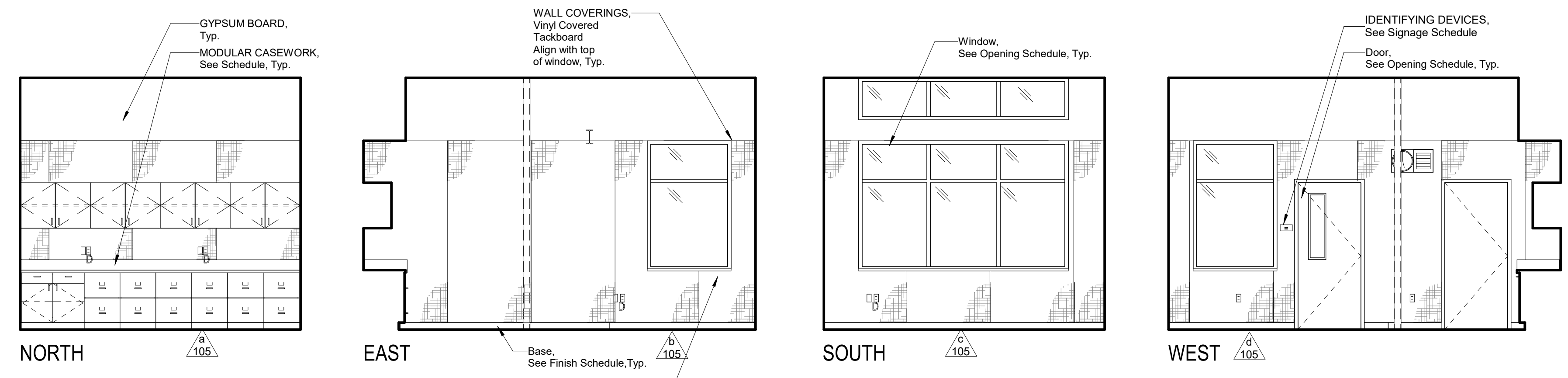
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Project Number: 2116
Date: 02/15/23

A/A301

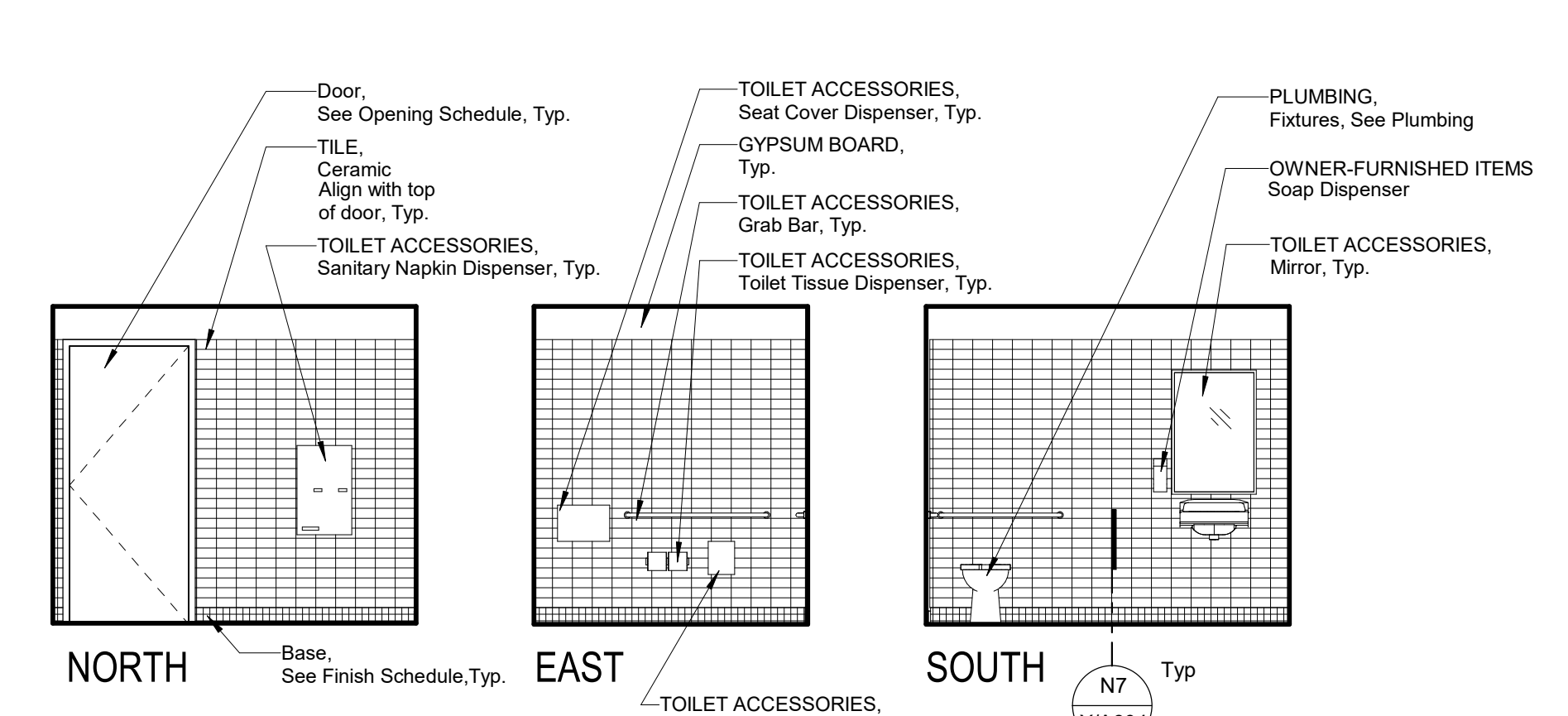
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A1 Roof Plan
Refer to F18 for Legend Symbols, Abbreviations and Notes

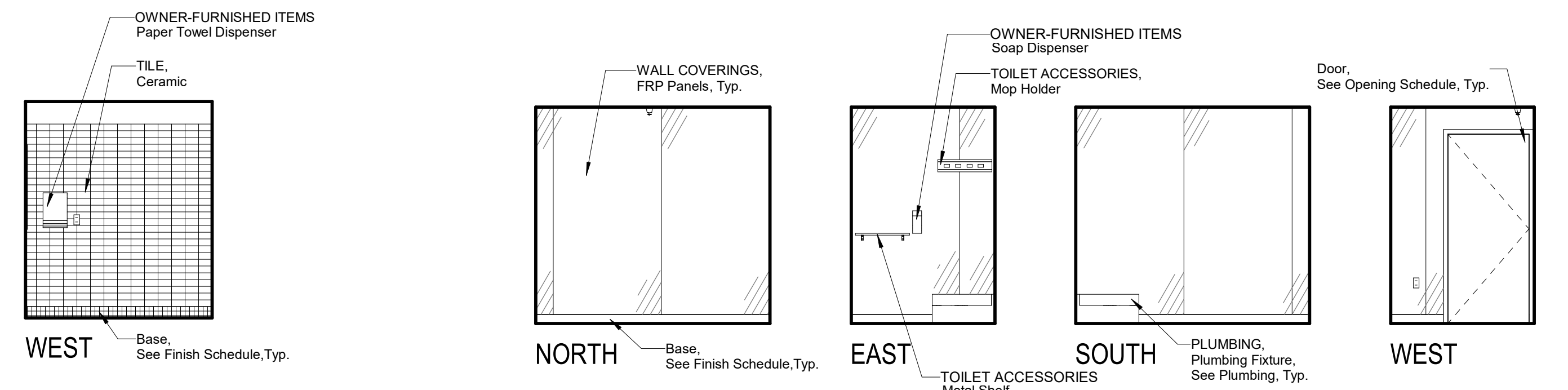
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105 Principal's Office

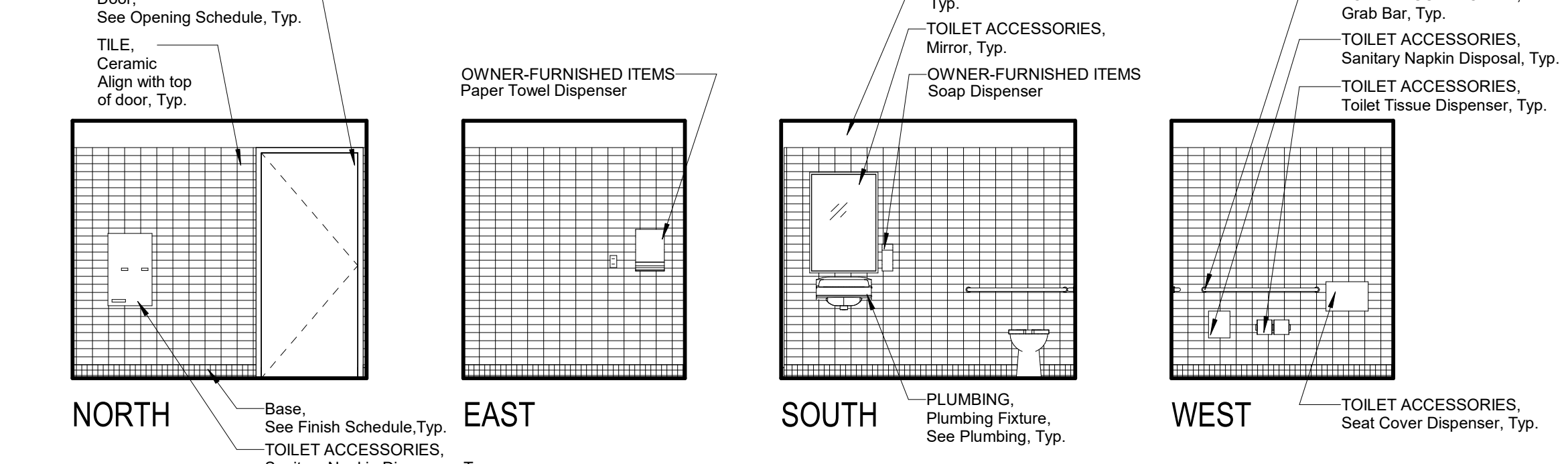


106 Staff Restroom

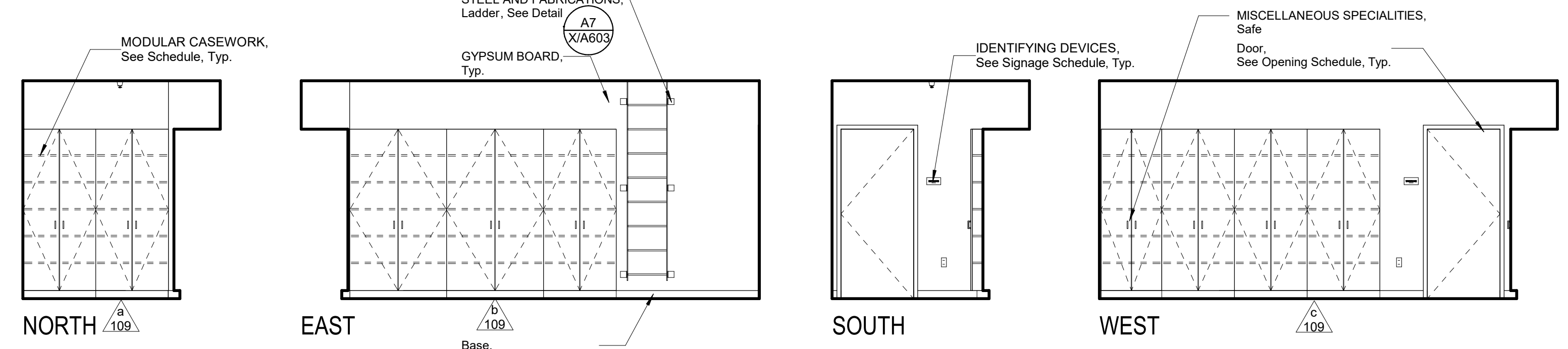


106 Staff Restroom (Continued)

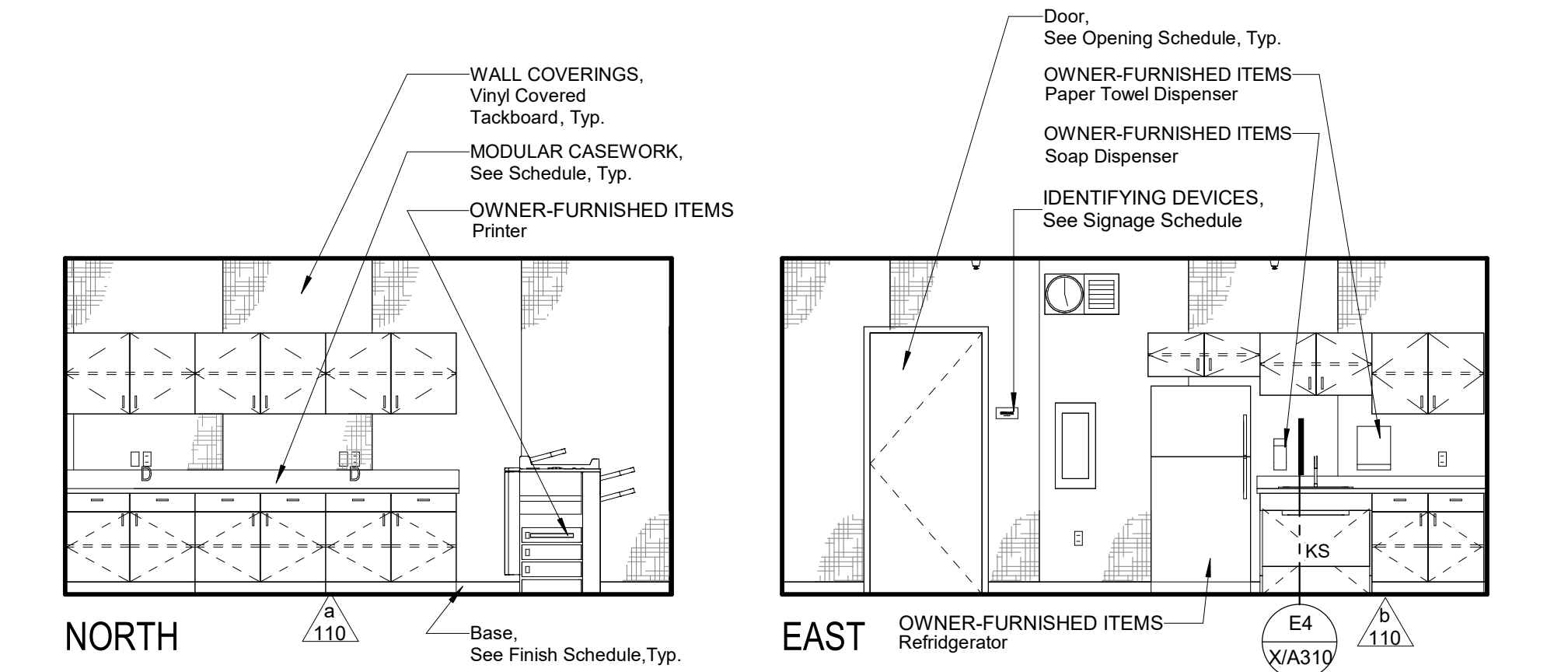
107 Custodial



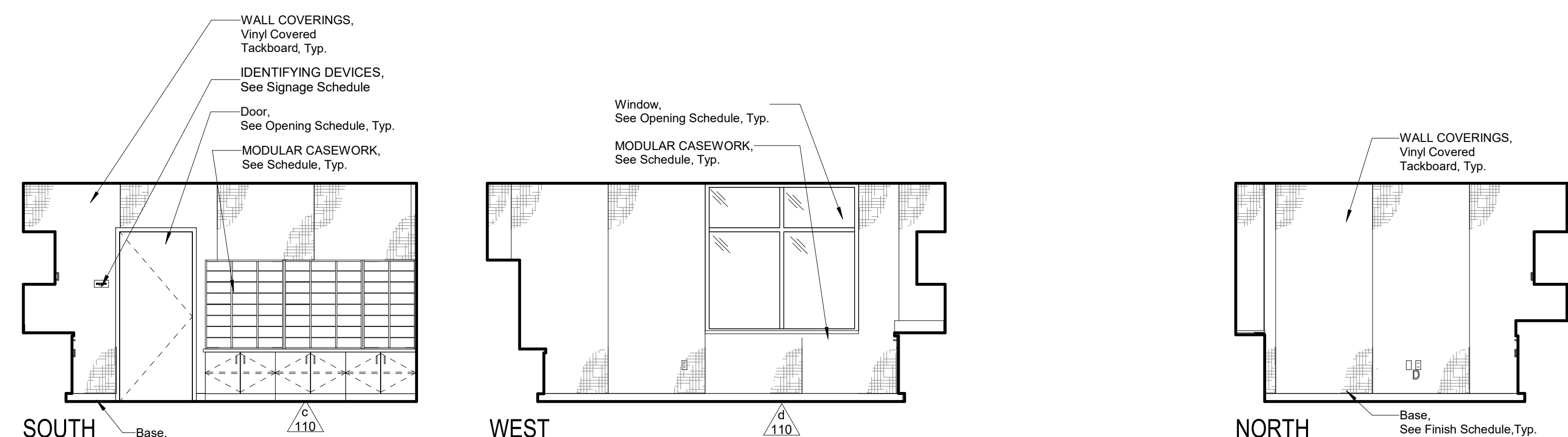
108 Staff Restroom



109 Storage

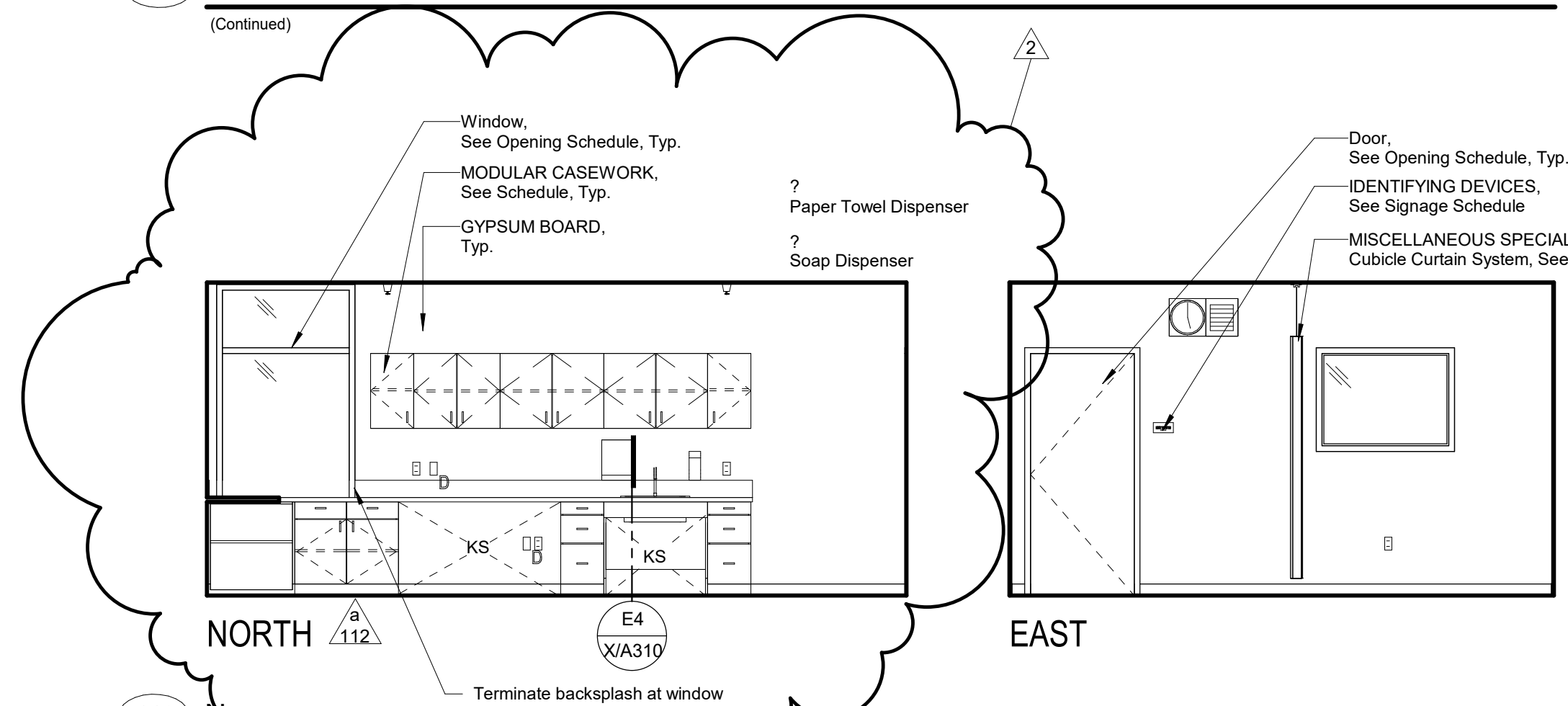
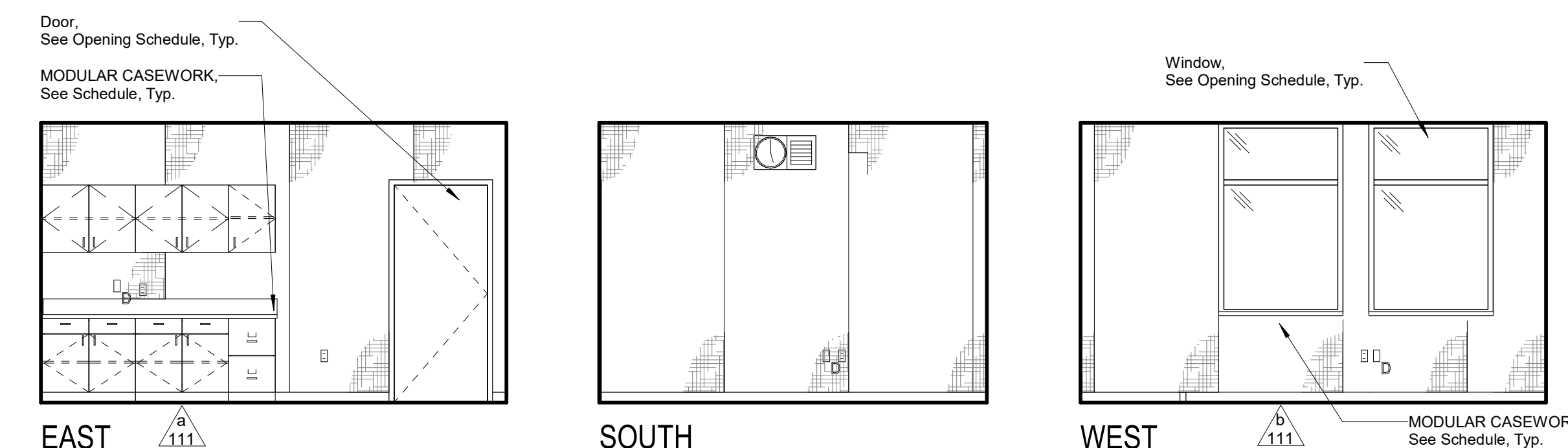


110 Workroom



110 Workroom (Continued)

111 GIS Office



112 Nurse

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

- SYMBOLS**
- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
 - Equipment Item No. Refer to Equipment Schedule.
 - FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0"; Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls.
 - FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0"; Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
 - ELECTRICAL, Speaker @ +5'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Clock @ +5'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Clock/Speaker @ +8'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Outlet
 - ELECTRICAL, Light Switch
 - ELECTRICAL, Fire Alarm Device
 - ELECTRICAL, Volume Control
 - ELECTRICAL, Telephone Outlet
 - MECHANICAL, Thermostat
 - PLUMBING, Hose Bib
 - ELECTRICAL, Data Outlet
 - ELECTRICAL, Microphone Outlet
 - ELECTRICAL, Intrusion Sensor
 - ELECTRICAL, Motion Sensor
 - ELECTRICAL, Telephone Outlet
 - OWNER FURNISHED ITEM, Keypad, see ELECTRICAL
 - GLASS

- ABBREVIATIONS**
- GI Glass
 - KS Knee Space
 - OH Opposite Hand
 - Typ. Typical
 - Sim. Similar
 - Da. Diameter
 - UNC Unless Noted Otherwise

- NOTES**
- All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
 - Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (i.e. casework, equipment, etc.)
 - Locate and mount TOILET ACCESSORIES and PLUMBING per detail unless noted otherwise.
 - Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail unless noted otherwise.
 - Provide backing at all TOILET ACCESSORIES, Grab Bars per detail unless noted otherwise.
 - Locate and mount IDENTIFYING DEVICES per detail unless noted otherwise.
 - Provide backing at all MODULAR CASEWORK per detail unless noted otherwise.
 - Attach all MODULAR CASEWORK per details.
 - WALL COVERINGS, Vinyl Covered Tackboard, See detail.
 - WALL COVERINGS, FRP Panels, See detail.
 - GYPSUM BOARD, Control Joints, see details.
 - Provide backing at all OWNER FURNISHED ITEMS, Television per detail unless noted otherwise.
 - WALL AND CORNER GUARDS, Corner Guard, see detail.
 - For Modular Casework Schedules, Refer to X/A301 through X/A304

F18 Interior Elevation Legend

No. Scale	Interior Elevation Legend	
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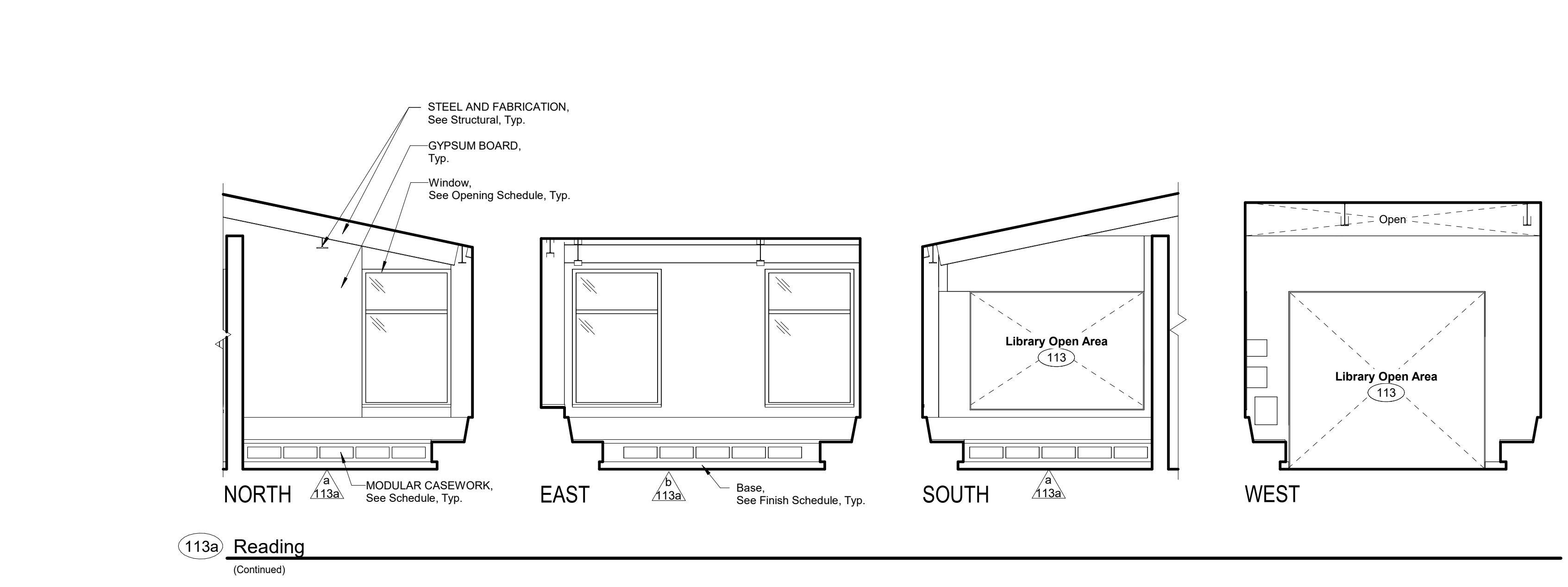
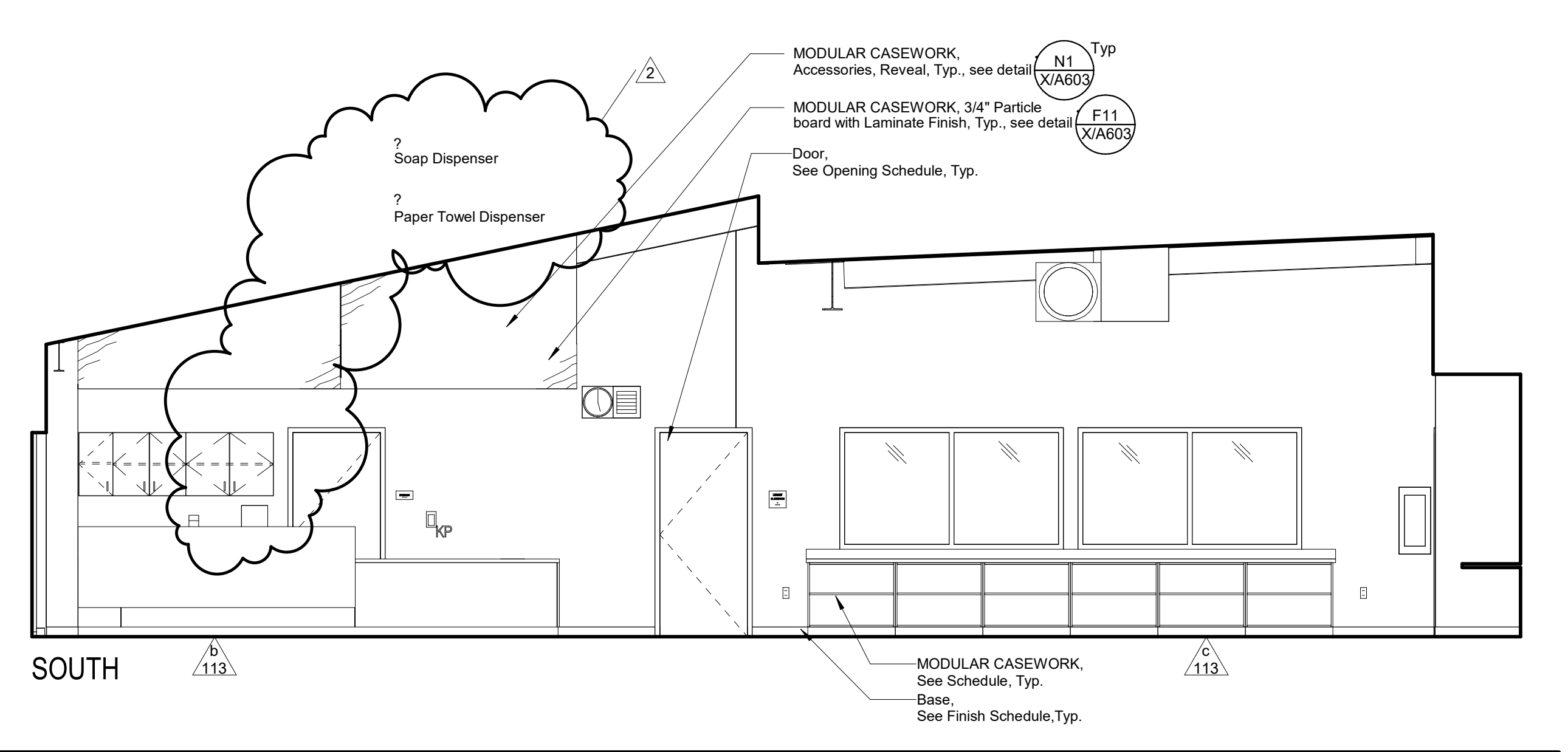
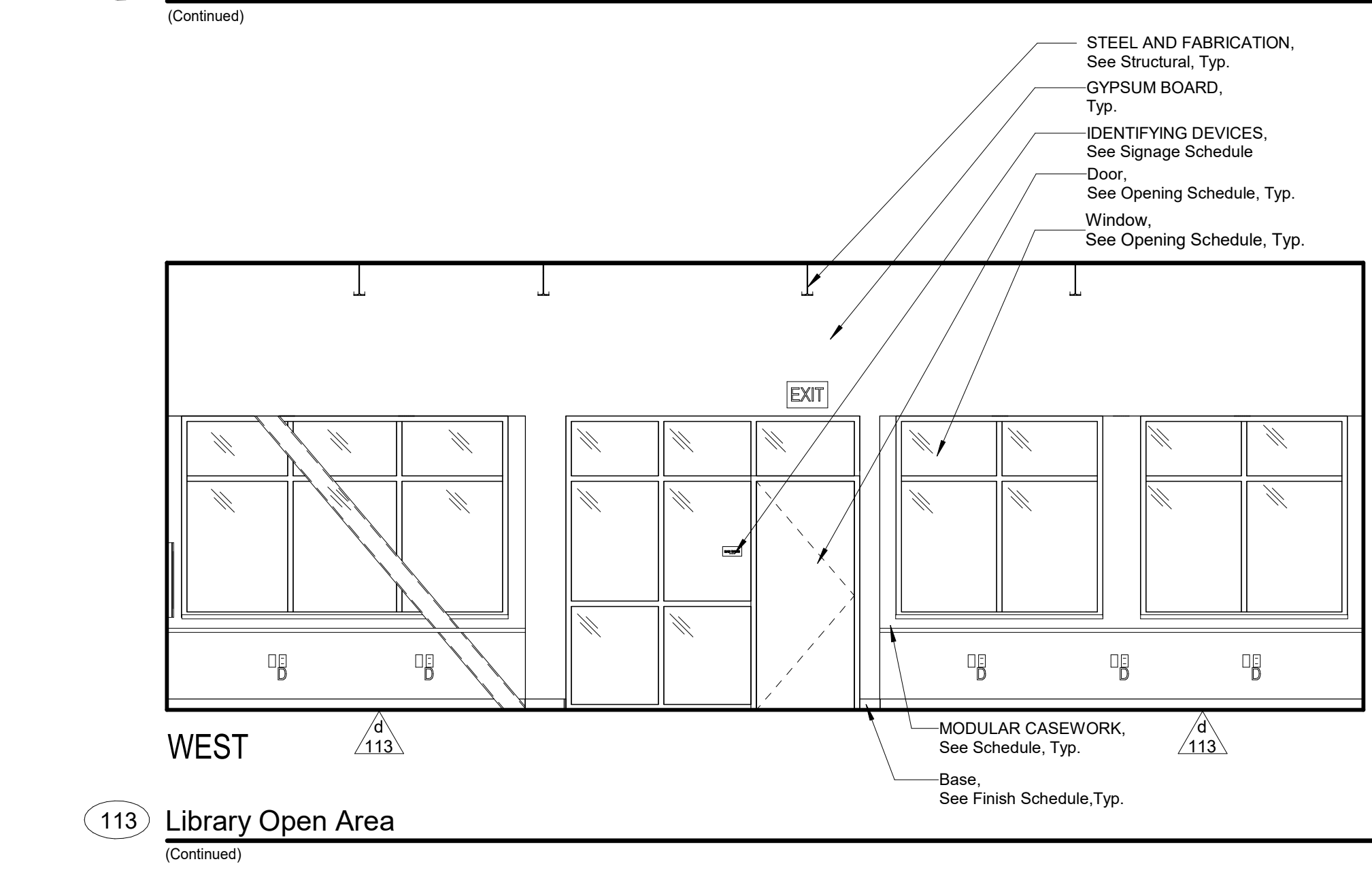
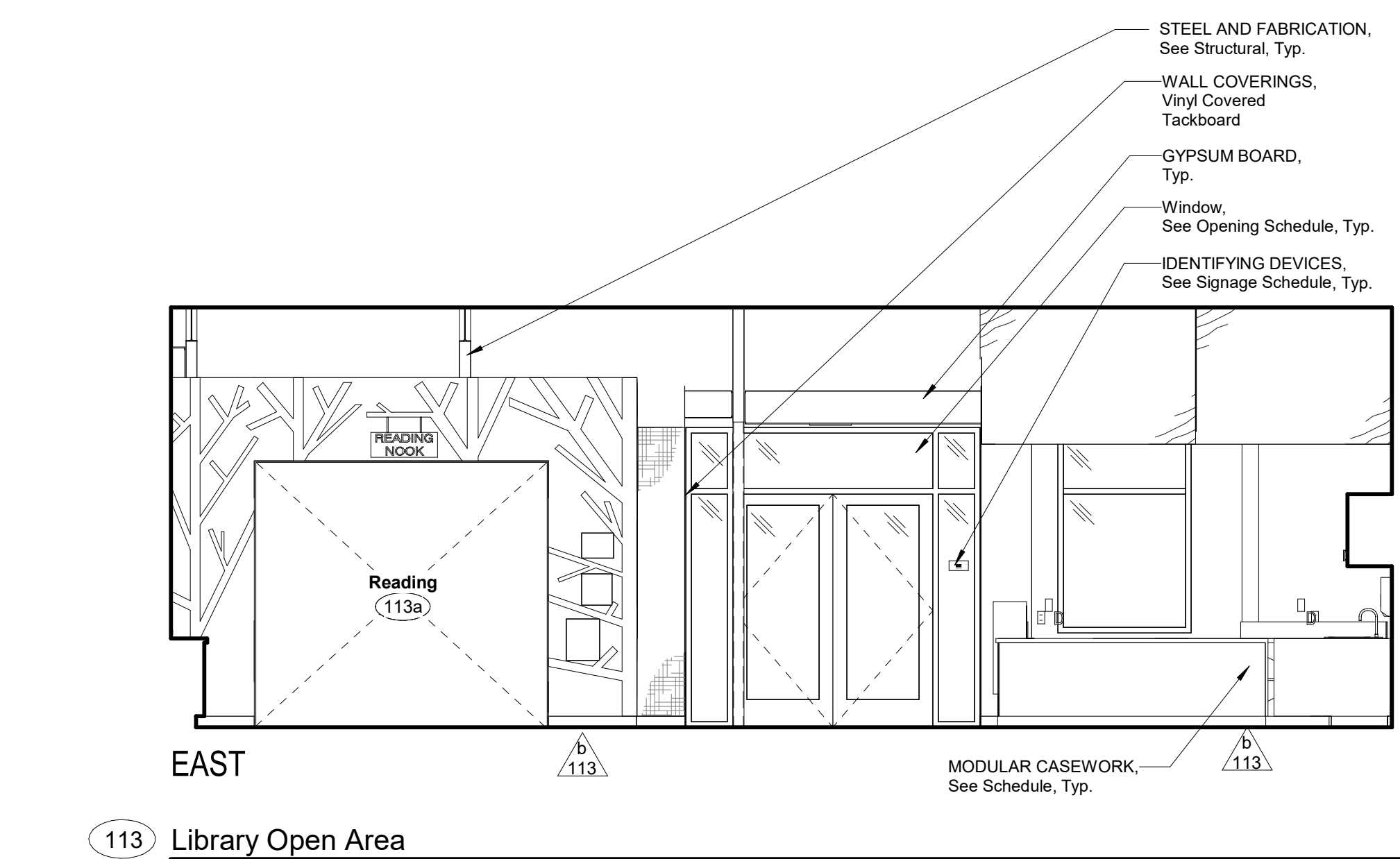
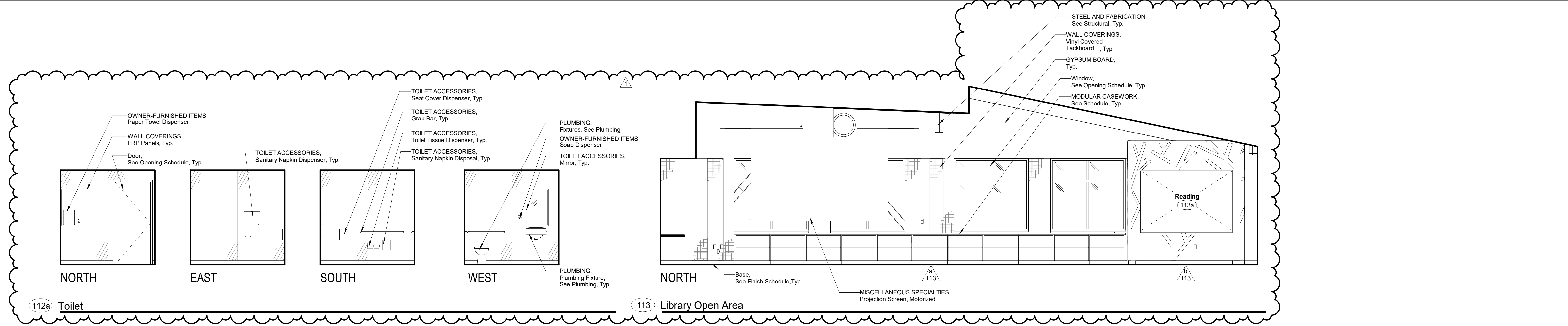
McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
Fresno, CA 93727

BUILDING A- ADMINISTRATION
INTERIOR ELEVATIONS- ROOMS 105-112

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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Scale: 1/4" = 1'-0"	Drawn By: Author	A/A602
Project Number: 2116	Checked/Checker	
Date: 02/15/23	Review/Approver	



DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

- SYMBOLS**
- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
 - Equipment Item No. Refer to Equipment Schedule.
 - FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls.
 - FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
 - ELECTRICAL, Speaker @ +8'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Clock @ +8'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Clock/Speaker @ +8'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Outlet
 - ELECTRICAL, Light Switch
 - ELECTRICAL, Fire Alarm Device
 - ELECTRICAL, Volume Control
 - ELECTRICAL, Television Outlet
 - MECHANICAL, Thermostat
 - PLUMBING, Hose Bib
 - ELECTRICAL, Data Outlet
 - ELECTRICAL, Microphone Outlet
 - ELECTRICAL, Intrusion Sensor
 - ELECTRICAL, Motion Sensor
 - ELECTRICAL, Telephone Outlet
 - OWNER FURNISHED ITEM, Keypad, see ELECTRICAL
 - GLASS

- ABBREVIATIONS**
- CL Glass
 - KS Knee Space
 - OH Opposite Hand
 - Typ Typical
 - Sim Similar
 - Dia Diameter
 - UNO Unless Noted Otherwise

- NOTES**
- All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
 - Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (i.e. casework, equipment, etc.)
 - Locate and mount TOILET ACCESSORIES and PLUMBING per detail (A4, A11, X/A601, X/A607)
 - Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail (N14, X/A601)
 - Locate and mount IDENTIFYING DEVICES per detail (E11, X/A601)
 - Provide backing at all MODULAR CASEWORK per detail (N14, X/A601)
 - Attach all MODULAR CASEWORK per details (A14, G14, X/A310, X/A310)
 - WALL COVERINGS, Vinyl Covered Tackboard, See detail (N1, X/A601)
 - WALL COVERINGS, FRP Panels, See detail (A14, G14, X/A310, X/A310)
 - GYPSUM BOARD, Control Joints, see details (E18, X/A602)
 - Provide backing at all OWNER FURNISHED ITEMS, Television per detail (N14, X/A601)
 - WALL AND CORNER GUARDS, Corner Guard, see detail (N11, X/A601)
 - For Modular Casework Schedules, Refer to X/A301 through X/A304

F18	Interior Elevation Legend
No Scale	

McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District
 Fresno, CA 93727
BUILDING A- ADMINISTRATION
 INTERIOR ELEVATIONS- ROOMS 112a-113a
 Drawing

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 ARCHITECT

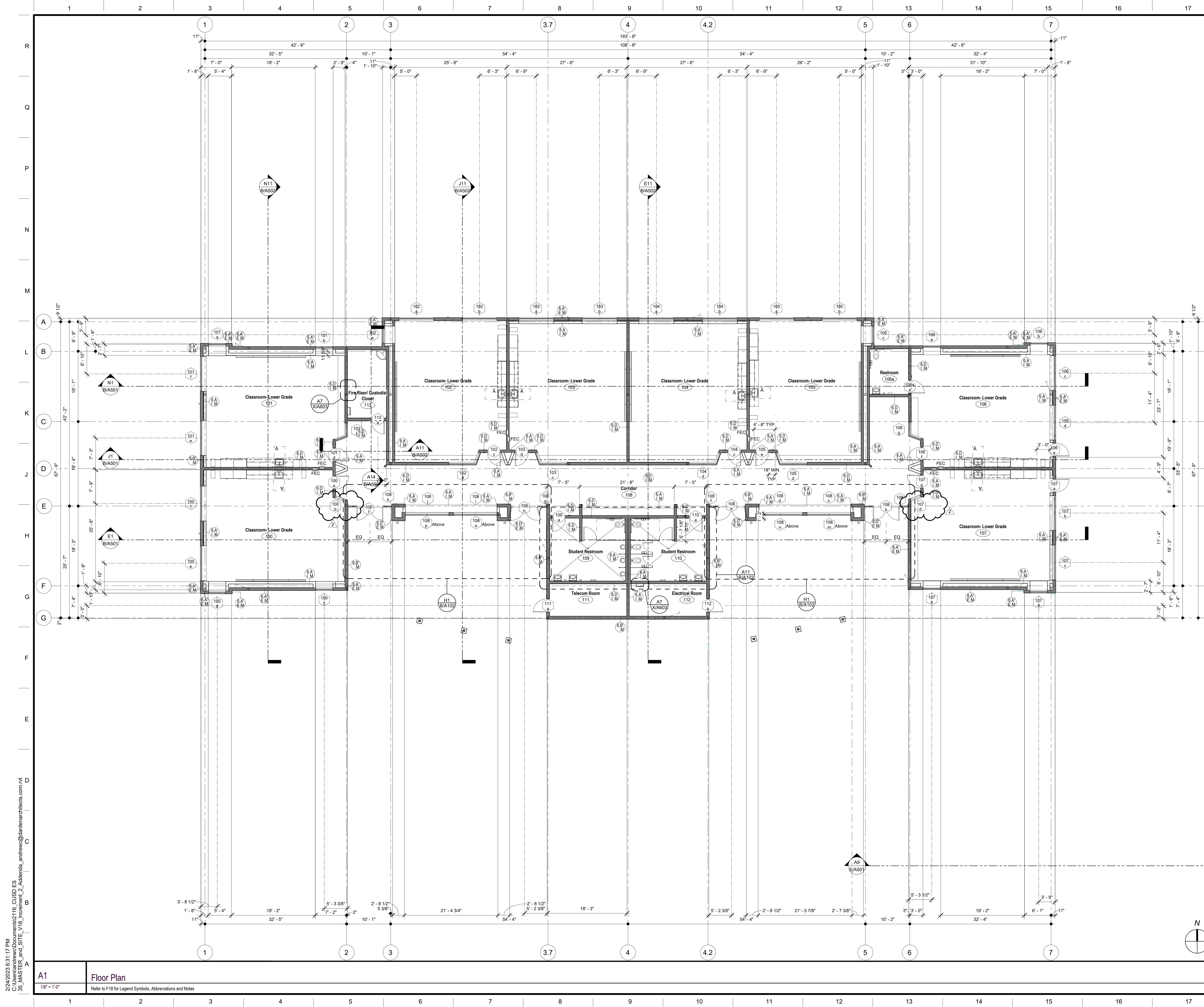
No.	Revision/Submission	Date
1	Addendum 1	02/17/23
2	Addendum 2	07/24/23

Revision

Designed Designer	Copyright 2022 Darden Architects
Scale: 1/4" = 1'-0"	Drawn By: Author
Project Number: 2116	Checked/Checker
Date: 02/15/23	Review/Approver

A/A603

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DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

SYMBOLS

- Concrete Masonry Unit Wall, 8" wide unless otherwise noted.
- Concrete Wall, or Column. Size as indicated.
- Stud Wall. Studs and interior wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior wall material shall include Batt insulation, Sound Densifying Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.
- Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16" o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
- 2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
- Reference Grid
- Opening Group No. Refer to Door or Window Opening Schedules
- Room name Room Designation
- Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point
- WALL AND CORNER GUARDS, Corner Guard
- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.

ABBREVIATIONS

- FIBC FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FIBC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls. Where Stud Depth is Less than 8" and at Masonry Walls, See A11 X/A603
- FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. See A11 X/A603
- FF Face of Finish
- FOC Face of Concrete
- FD Floor Drain
- FOM Face of Masonry
- FOS Face of Stud
- FS Floor Sink
- HB Hose Bib
- MO Masonry Opening
- UNO Unless Noted Otherwise
- RO Rough Opening
- VCT RESILIENT FLOORING, Vinyl Composition Tile
- Typ. Typical
- Sim. Similar
- OH Opposite Hand

NOTES

- All Exterior Walls shall be Wall Assembly Type (E11) Unless Noted Otherwise.
- All Interior Walls shall be Wall Assembly Type (E11) Unless Noted Otherwise.
- All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
- All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
- Dimensions noted as "x"-1/2" are nominal.
- Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall. Unless Noted Otherwise, Floors must be sloped at a min. of 1:50 to the floor drains.
- IDENTIFYING DEVICES: For Room Signage refer to E11 X/A601 and Specifications
- FIRE RESISTIVE ASSEMBLIES:
 - All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.
 - All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "R" HOUR RATED, PROTECT ALL OPENINGS. Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "R" indicates the hourly rating of the wall or partition.

F18	Floor Plan Legend
No Scale	

McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District Project
 Fresno, CA 93727

BUILDING B- CLASSROOMS
 FLOOR PLAN
 Drawing

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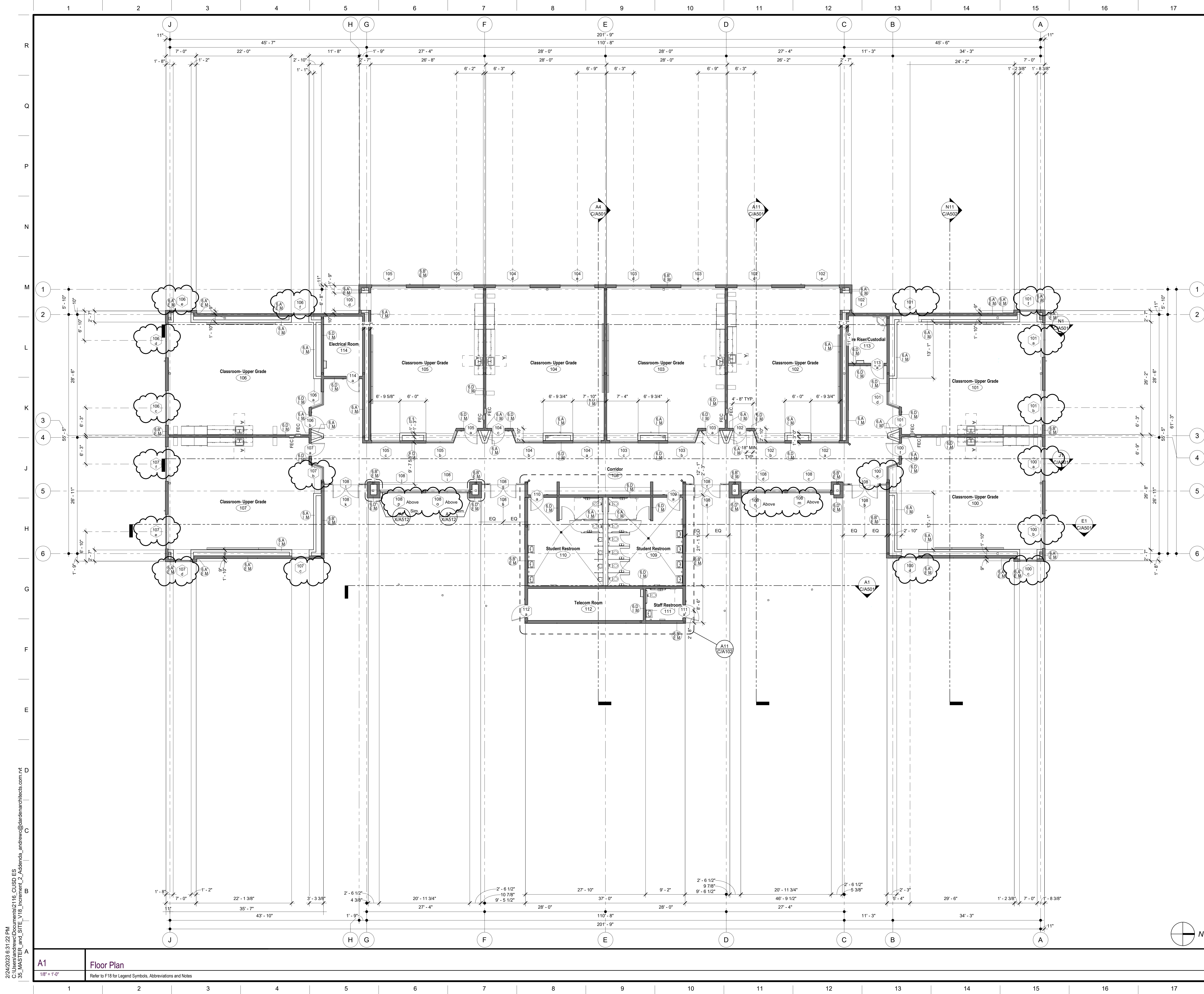
ARCHITECT

No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Revision	
Designed Designer	Copyright 2022 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author
Project Number: 2116	Checked/Checker
Date: 02/15/23	Reviewed By:

A1 Floor Plan
 1/8" = 1'-0"
 Refer to F18 for Legend Symbols, Abbreviations and Notes

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 35_MASTER_and_SITE_V18_Increment_2_Addenia_andrew@dardenarchitects.com.rvt



DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

SYMBOLS

- Concrete Masonry Unit Wall, 8" wide unless otherwise noted.
- Concrete Wall, or Column. Size as indicated.
- Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Densifying Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.
- Stud Wall, Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16" o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
- 2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
- Reference Grid
- Opening Group No. Refer to Door or Window Opening Schedules
- Room name Room Designation
- Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point
- WALL AND CORNER GUARDS, Corner Guard
- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.

ABBREVIATIONS

- FECB FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FECB-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls. Where Stud Depth is Less than 6" and at Masonry Walls, See X/A103
- FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. See X/A103
- FF Face of Finish
- FOC Face of Concrete
- FD Floor Drain
- FOM Face of Masonry
- FOS Face of Stud
- FS Floor Sink
- HB Hose Bib
- MO Masonry Opening
- UNO Unless Noted Otherwise
- RO Rough Opening
- VCT RESILIENT FLOORING, Vinyl Composition Tile
- Typ. Typical
- Sm. Similar
- OH Opposite Hand

NOTES

- All Exterior Walls shall be Wall Assembly Type (E1) Unless Noted Otherwise.
- All Interior Walls shall be Wall Assembly Type (E1) Unless Noted Otherwise.
- All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
- All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
- Dimensions noted as "N/A" are nominal.
- Floor Drains (FD) and Floor Sinks (FS) shall be set 3/4" and a min. of 3'-0" from nearest wall. Unless Noted Otherwise. Floors must be sloped at a min. of 1:50 to the floor drains.
- IDENTIFYING DEVICES, For Room Signage refer to E11 and Specifications
- FIRE RESISTIVE ASSEMBLIES:
 - All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.
 - All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "R" HOUR RATED, PROTECT ALL OPENINGS. Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "R" indicates the hourly rating of the wall or partition.

F18	Floor Plan Legend
No Scale	

McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District Project
 Fresno, CA 93727
BUILDING C- CLASSROOMS
 FLOOR PLAN
 Drawing

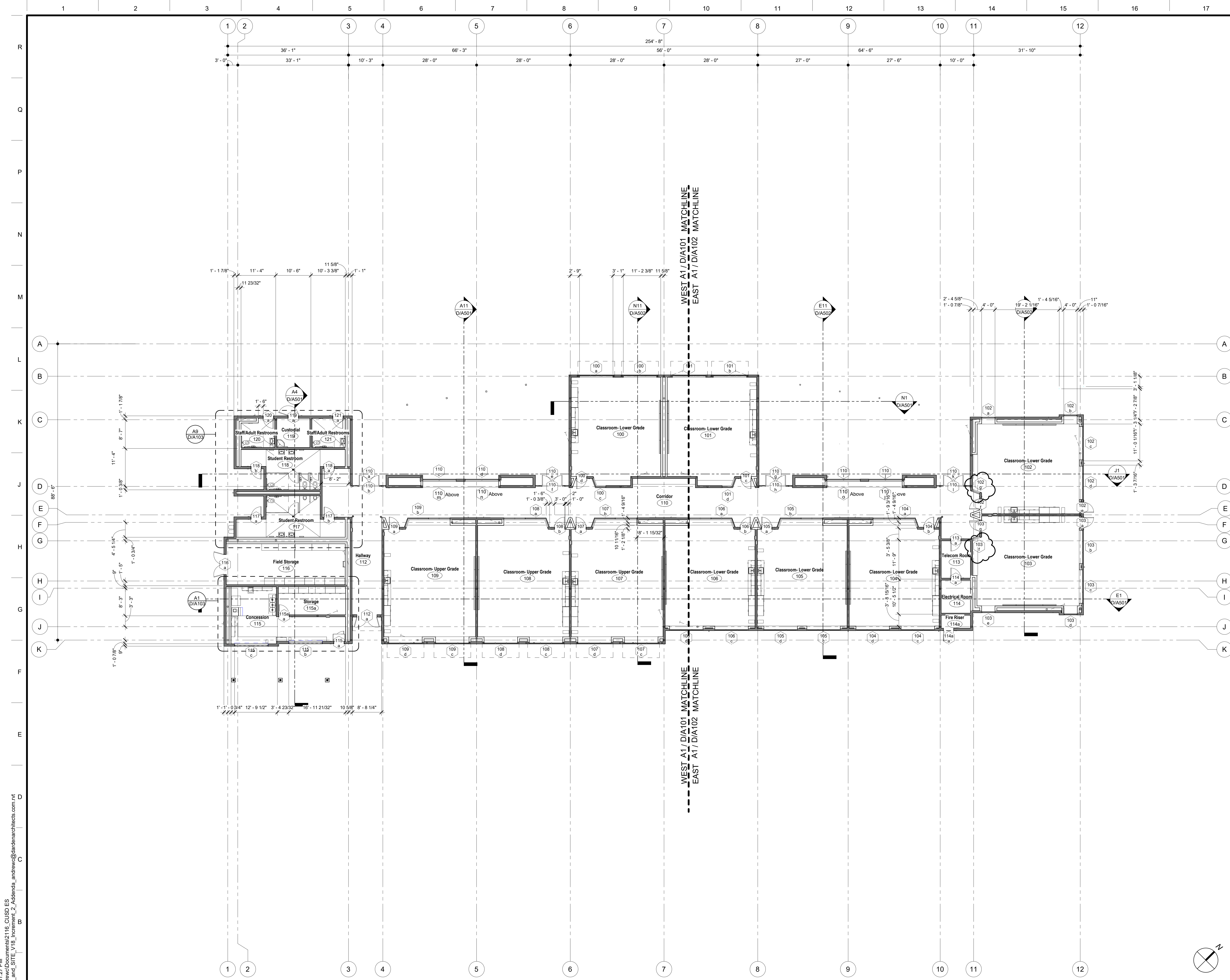
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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Revision	
Designed Designer	Copyright © 2022 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author
Project Number: 2116	Checked/Checker
Date: 02/15/23	Review/Approver

2/24/2023 6:31:22 PM
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 35_MASTER_and_SITE_V18_Increment_2_Addenia_andrew@dardenarchitects.com.rvt

A1 Floor Plan
 1/8" = 1'-0"
 Refer to F18 for Legend Symbols, Abbreviations and Notes



DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

- SYMBOLS**
- Concrete Masonry Unit Wall, 8" wide unless otherwise noted.
 - Concrete Wall, or Column. Size as indicated.
 - Stud Wall. Studs and interior wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior wall material shall include Batt insulation, Sound Densifying Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.
 - Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16" o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
 - 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
 - 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
 - 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
 - 2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
 - 2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
 - Reference Grid
 - Opening Group No. Refer to Door or Window Opening Schedules
 - Room Designation
 - Wall Assembly Symbols. Refer to Sheet X/A101
 - Reference Point
 - WALL AND CORNER GUARDS, Corner Guard
 - Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.

- ABBREVIATIONS**
- FBC FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FBC-1, Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls, See A1/X/A603
 - FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls, See A1/X/A603
 - FF Face of Finish
 - FC Face of Concrete
 - FD Floor Drain
 - FOM Face of Masonry
 - FOS Face of Stud
 - FS Floor Sink
 - HB Hose Bib
 - MO Masonry Opening
 - UNO Unless Noted Otherwise
 - RO Rough Opening
 - VCT RESILIENT FLOORING, Vinyl Composition Tile
 - Typ. Typical
 - Sim. Similar
 - OH Opposite Hand

- NOTES**
1. All Exterior Walls shall be Wall Assembly Type (E.B./M) Unless Noted Otherwise.
 2. All Interior Walls shall be Wall Assembly Type (E.D./M) Unless Noted Otherwise.
 3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
 4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
 5. Dimensions noted as "+/-" are nominal.
 6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise. Floors must be sloped at a min. of 1:50 to the floor drains.
 7. IDENTIFYING DEVICES, For Room Signage refer to E11/X/A601 and Specifications
 8. FIRE RESISTIVE ASSEMBLIES:
 - a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.
 - b. All Walls of Fire and/or Smoke Resistive Construction Shall be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "R" HOUR RATED. PROTECT ALL OPENINGS. Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "R" indicates the hourly rating of the wall or partition.

F18	Floor Plan Legend
No Scale	

McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District
 Fresno, CA 93727 Project

BUILDING D- CLASSROOMS
 OVERALL FLOOR PLAN
 Drawing

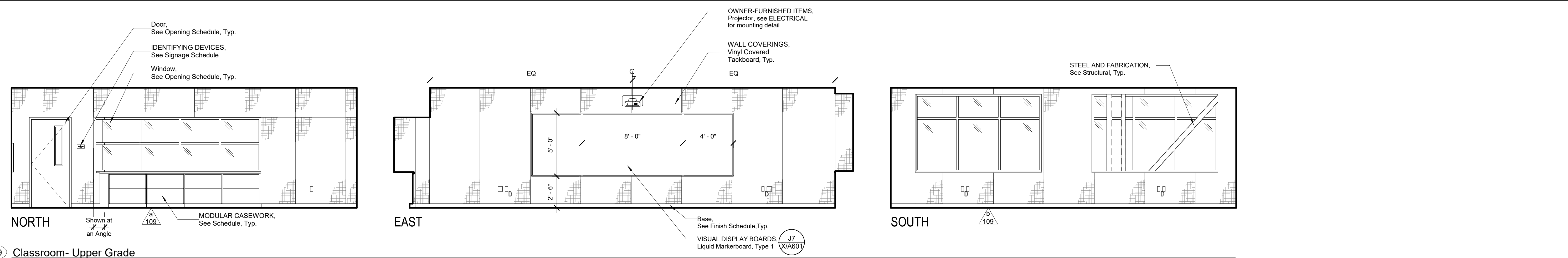
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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

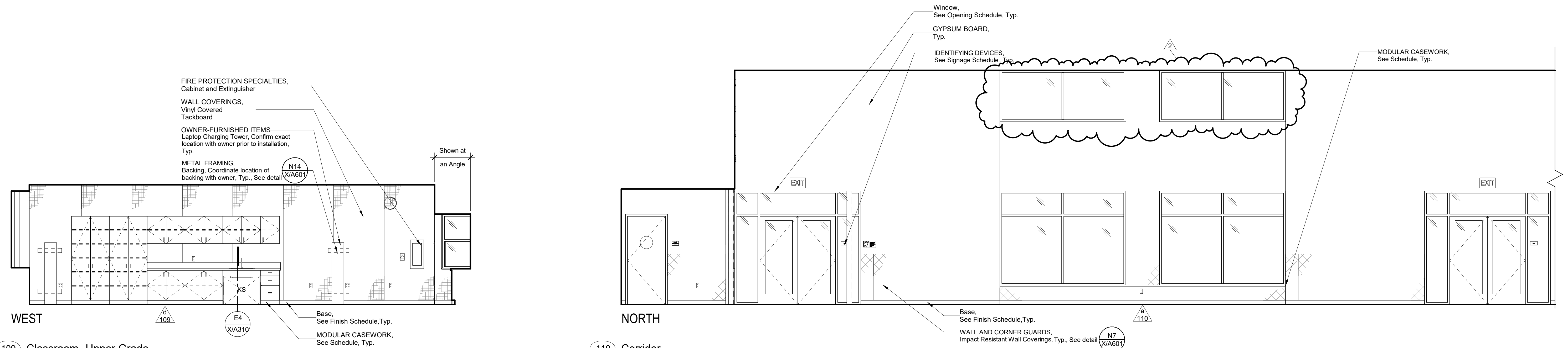
Revision	
Designed Designer	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author
Project Number: 2116	Checked/Checker
Date: 02/15/23	Review/Approver

A1 Overall Floor Plan
 3/32" = 1'-0"
 Refer to F18 for Legend Symbols, Abbreviations and Notes

D/A100

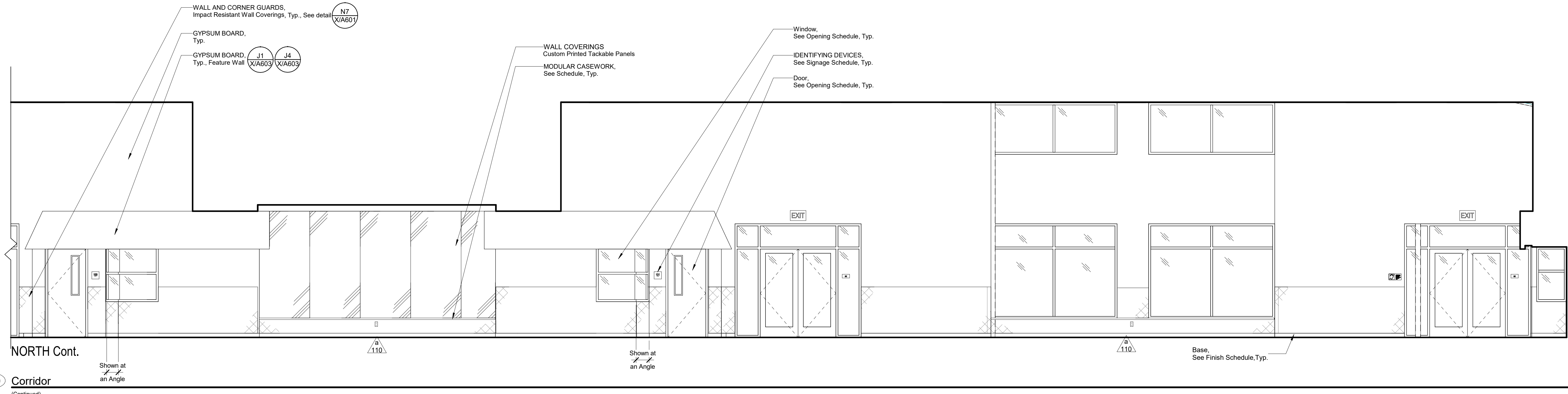


109 Classroom- Upper Grade



109 Classroom- Upper Grade (Continued)

110 Corridor



110 Corridor (Continued)

DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- SYMBOLS**
- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
 - Equipment Item No. Refer to Equipment Schedule.
 - FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0". Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls.
 - FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0". Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
 - ELECTRICAL, Speaker @ +5'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Clock @ +5'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Clock/Speaker @ +5'-0" to center of device, Unless Noted Otherwise.
 - ELECTRICAL, Outlet
 - ELECTRICAL, Light Switch
 - ELECTRICAL, Fire Alarm Device
 - ELECTRICAL, Volume Control
 - ELECTRICAL, Television Outlet
 - MECHANICAL, Thermostat
 - PLUMBING, Hose Bib
 - ELECTRICAL, Data Outlet
 - ELECTRICAL, Microphone Outlet
 - ELECTRICAL, Intrusion Sensor
 - ELECTRICAL, Motion Sensor
 - ELECTRICAL, Telephone Outlet
 - OWNER FURNISHED ITEM, Keypad, see ELECTRICAL
 - GLASS

- ABBREVIATIONS**
- GI Glass
 - KS Knee Space
 - OH Opposite Hand
 - Typ. Typical
 - Sim. Similar
 - dia. Diameter
 - UNO Unless Noted Otherwise

- NOTES**
1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
 2. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (i.e. casework, equipment, etc.)
 3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail A1 X/A601, A11 X/A601.
 4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N14 X/A601.
 5. Provide backing at all TOILET ACCESSORIES, Grab Bars per detail A1 X/A601.
 6. Locate and mount IDENTIFYING DEVICES per detail E11 X/A601.
 7. Provide backing at all MODULAR CASEWORK per detail N14 X/A601.
 8. Attach all MODULAR CASEWORK per details A14 X/A310, G14 X/A310.
 9. WALL COVERINGS, Vinyl Covered Tackboard, See detail N1 X/A601.
 10. WALL COVERINGS, FRP Panels, See detail N1 X/A601.
 11. GYPSUM BOARD, Control Joints, see details E18 X/A602.
 12. Provide backing at all OWNER FURNISHED ITEMS, Television per detail N14 X/A601.
 13. WALL AND CORNER GUARDS, Corner Guard, see detail N11 X/A601.
 14. For Modular Casework Schedules, Refer to X/A301 through X/A304

F18 Interior Elevation Legend

No Scale

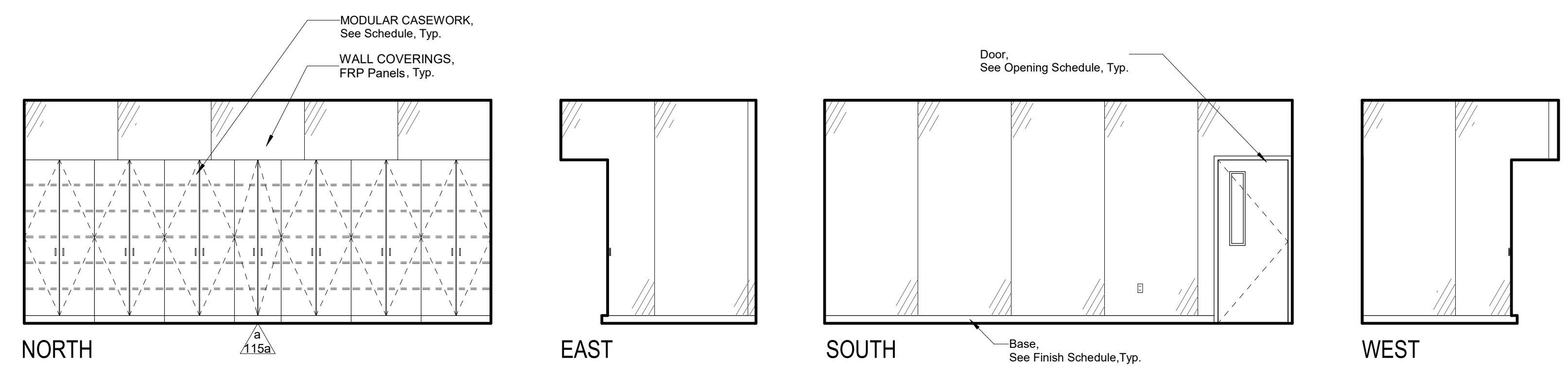
McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District
 Fresno, CA 93727
 Project
 BUILDING D- CLASSROOMS
 INTERIOR ELEVATIONS- ROOMS 109-110
 Drawing



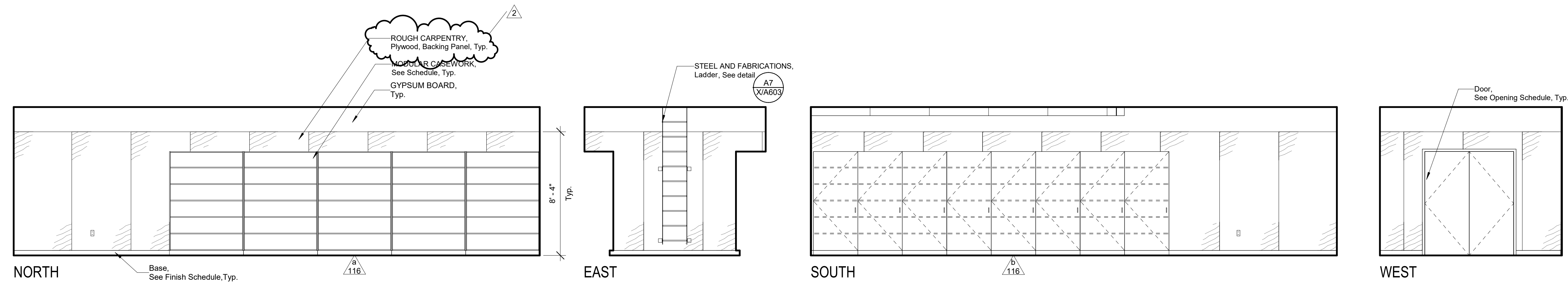
No.	Revision/Submission	Date
2	Addendum 2	07/24/23
Revision		
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Project Number: 2116	Checked I/Checker	
Date: 02/15/23	Review/Approver	

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 andrew@darkdenarchitects.com.rvt

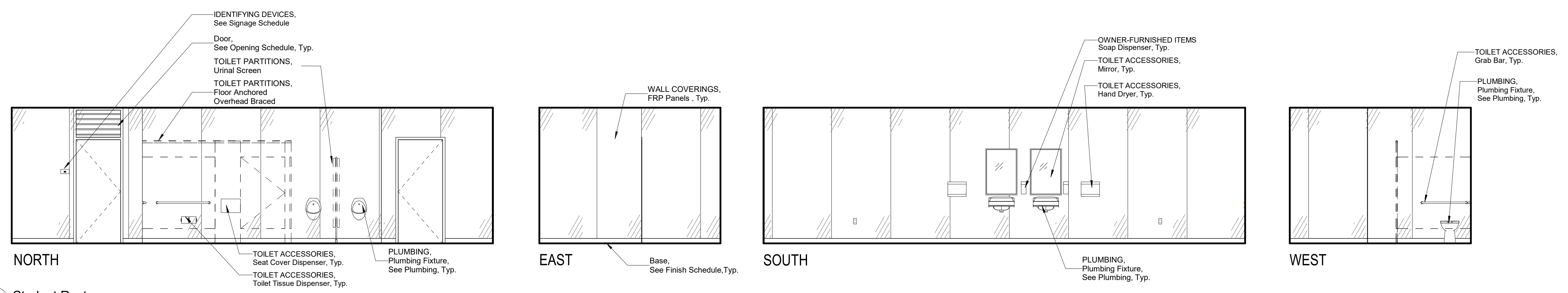
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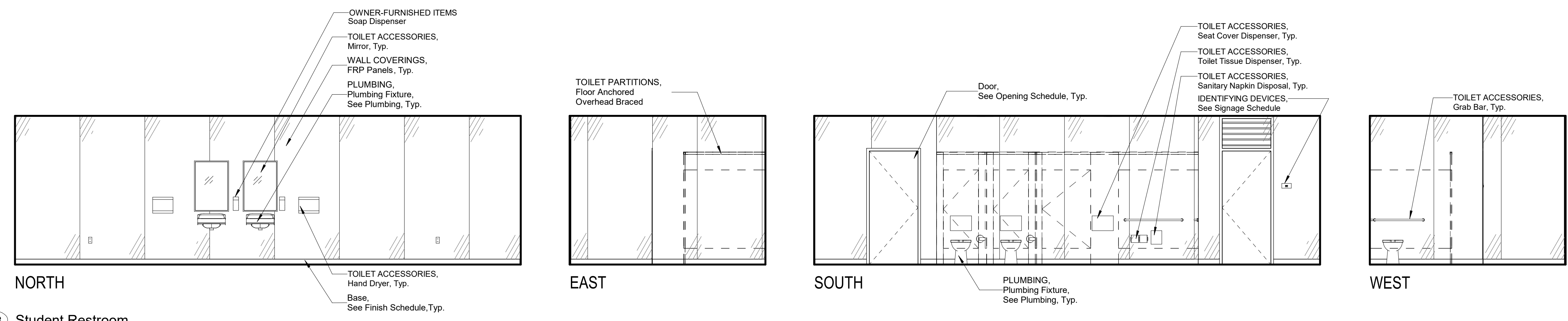
115a Storage



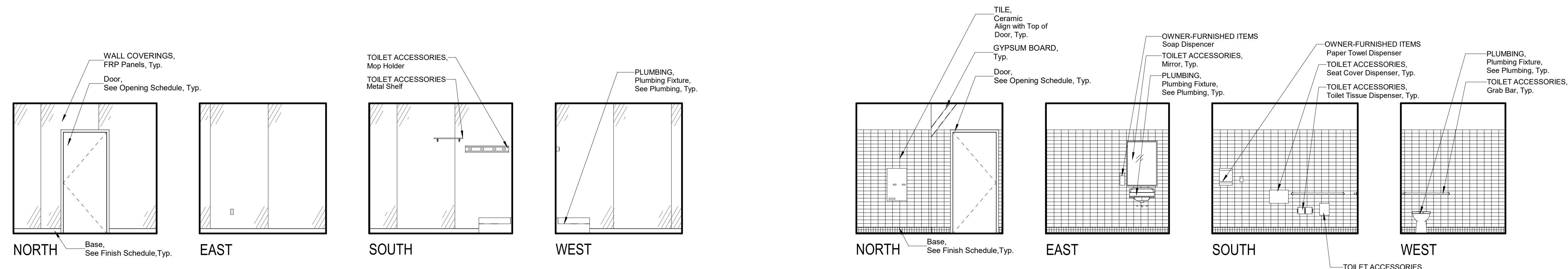
116 Field Storage



117 Student Restroom



118 Student Restroom



119 Custodial

120 Staff/Adult Restrooms

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

- SYMBOLS**
- ▲ Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
 - Equipment Item No. Refer to Equipment Schedule.
 - ☑ FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls.
 - ☑ FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinets at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
 - ☑ ELECTRICAL, Speaker @ +8'-0" to center of device, Unless Noted Otherwise.
 - ☑ ELECTRICAL, Clock @ +8'-0" to center of device, Unless Noted Otherwise.
 - ☑ ELECTRICAL, Clock/Speaker @ +8'-0" to center of device, Unless Noted Otherwise.
 - ☑ ELECTRICAL, Outlet
 - ☑ ELECTRICAL, Light Switch
 - ☑ ELECTRICAL, Fire Alarm Device
 - ☑ ELECTRICAL, Volume Control
 - ☑ ELECTRICAL, Television Outlet
 - ☑ MECHANICAL, Thermostat
 - ☑ PLUMBING, Hose Bib
 - ☑ ELECTRICAL, Data Outlet
 - ☑ ELECTRICAL, Microphone Outlet
 - ☑ ELECTRICAL, Intrusion Sensor
 - ☑ ELECTRICAL, Motion Sensor
 - ☑ ELECTRICAL, Telephone Outlet
 - ☑ OWNER FURNISHED ITEM, Keypad, see ELECTRICAL
 - ☑ GLASS

- ABBREVIATIONS**
- GL Glass
 - KS Knee Space
 - OH Opposite Hand
 - Typ. Typical
 - Sim. Similar
 - dia. Diameter
 - UNO Unless Noted Otherwise

- NOTES**
- All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
 - Refer to Electrical, Mechanical, Telecommunications, Food Service and Electrical for all wall mounted devices and coordinate location and heights with Architectural (i.e. casework, equipment, etc.)
 - Locate and mount TOILET ACCESSORIES and PLUMBING per detail Unless Noted Otherwise.
 - Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail Unless Noted Otherwise.
 - Provide Backing for TOILET ACCESSORIES, Grab Bars per detail Unless Noted Otherwise.
 - Locate and mount IDENTIFYING DEVICES per detail Unless Noted Otherwise.
 - Provide backing at all MODULAR CASEWORK per detail Unless Noted Otherwise.
 - Attach all MODULAR CASEWORK per details
 - WALL COVERINGS, Vinyl Covered Tackboard, See detail
 - WALL COVERINGS, FRP Panels, See detail
 - GYPSUM BOARD, Control Joints, see details
 - Provide backing at all OWNER FURNISHED ITEMS, Television per detail Unless Noted Otherwise.
 - WALL AND CORNER GUARDS, Corner Guard, see detail
 - For Modular Casework Schedules, Refer to XIA301 through XIA304

F18 Interior Elevation Legend

No Scale	
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McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
Fresno, CA 93727

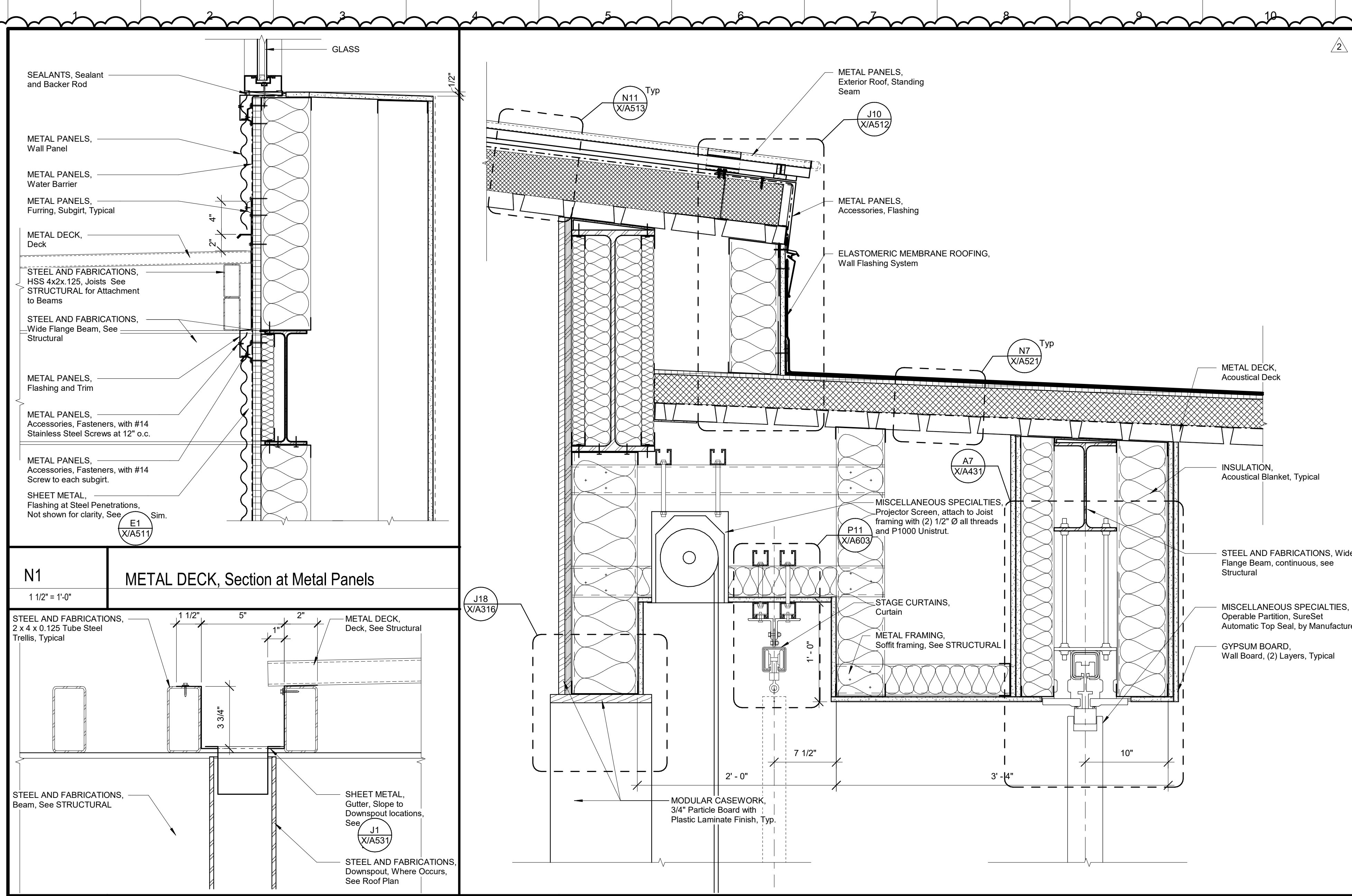
BUILDING D- CLASSROOMS
INTERIOR ELEVATIONS- ROOMS 115a-120
Drawing

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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

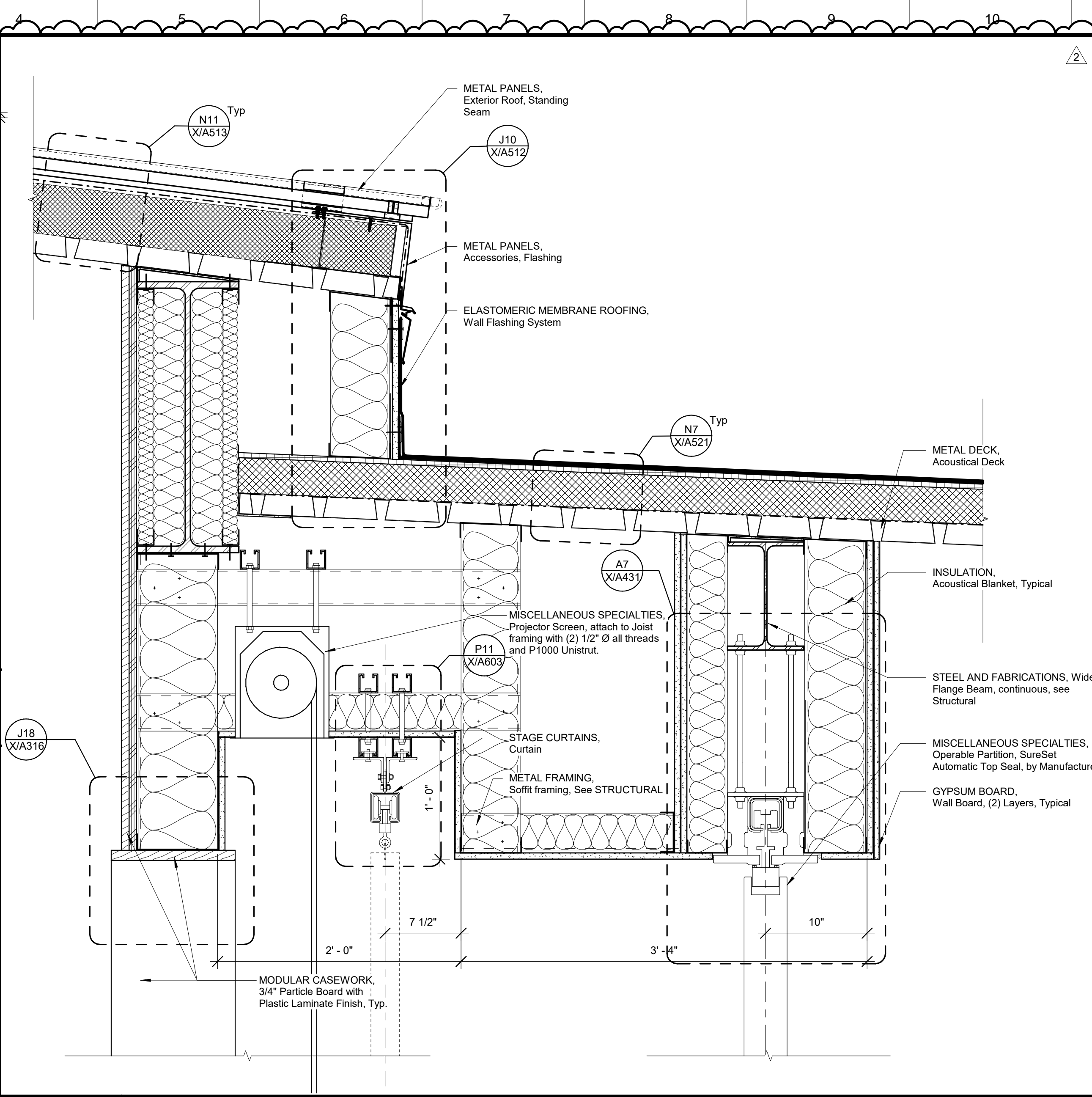
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Project Number: 2116	Checked/Checker	D/A607
Date: 02/15/23	Review/Approver	

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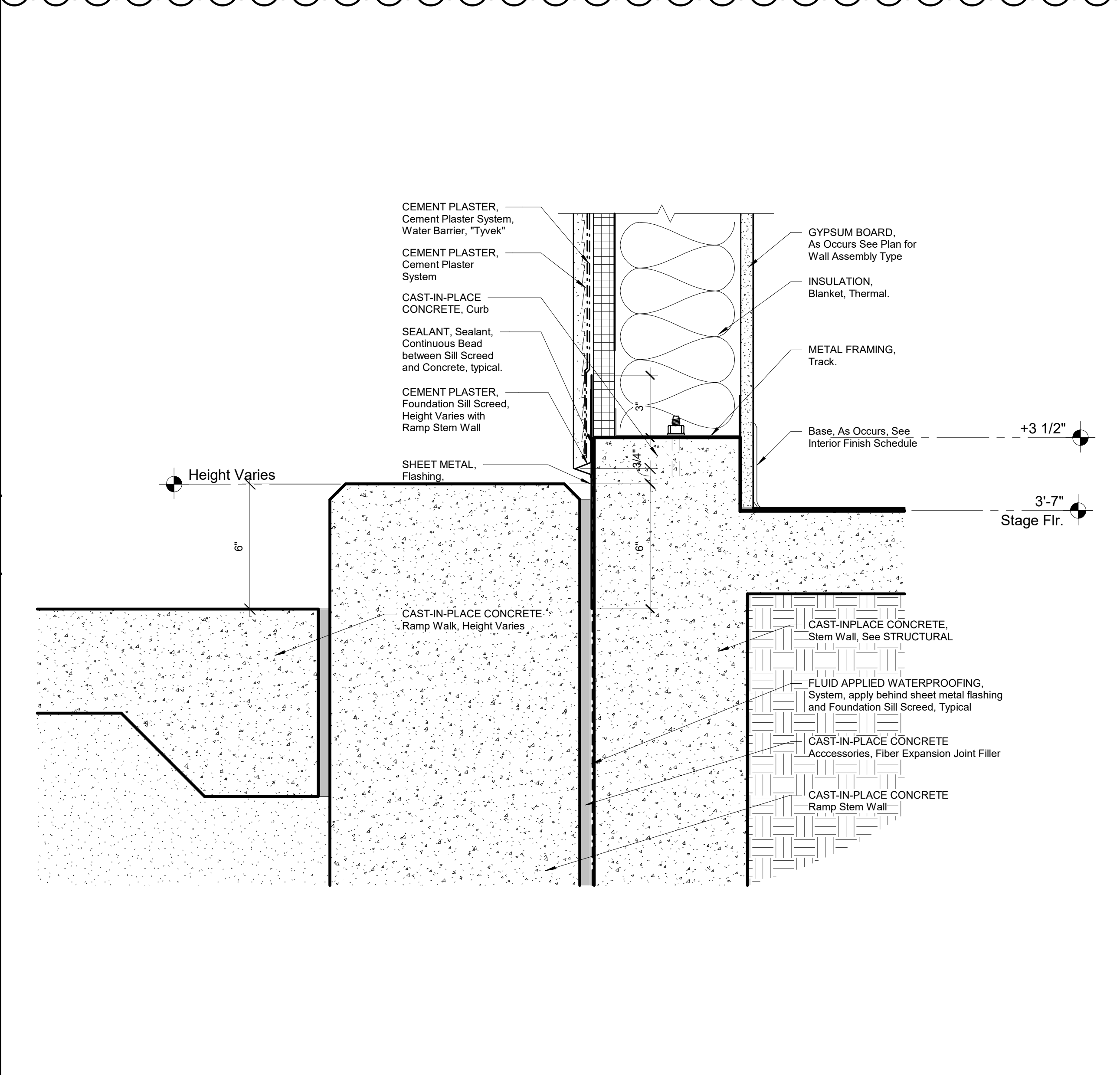


N1 METAL DECK, Section at Metal Panels
1 1/2" = 1'-0"

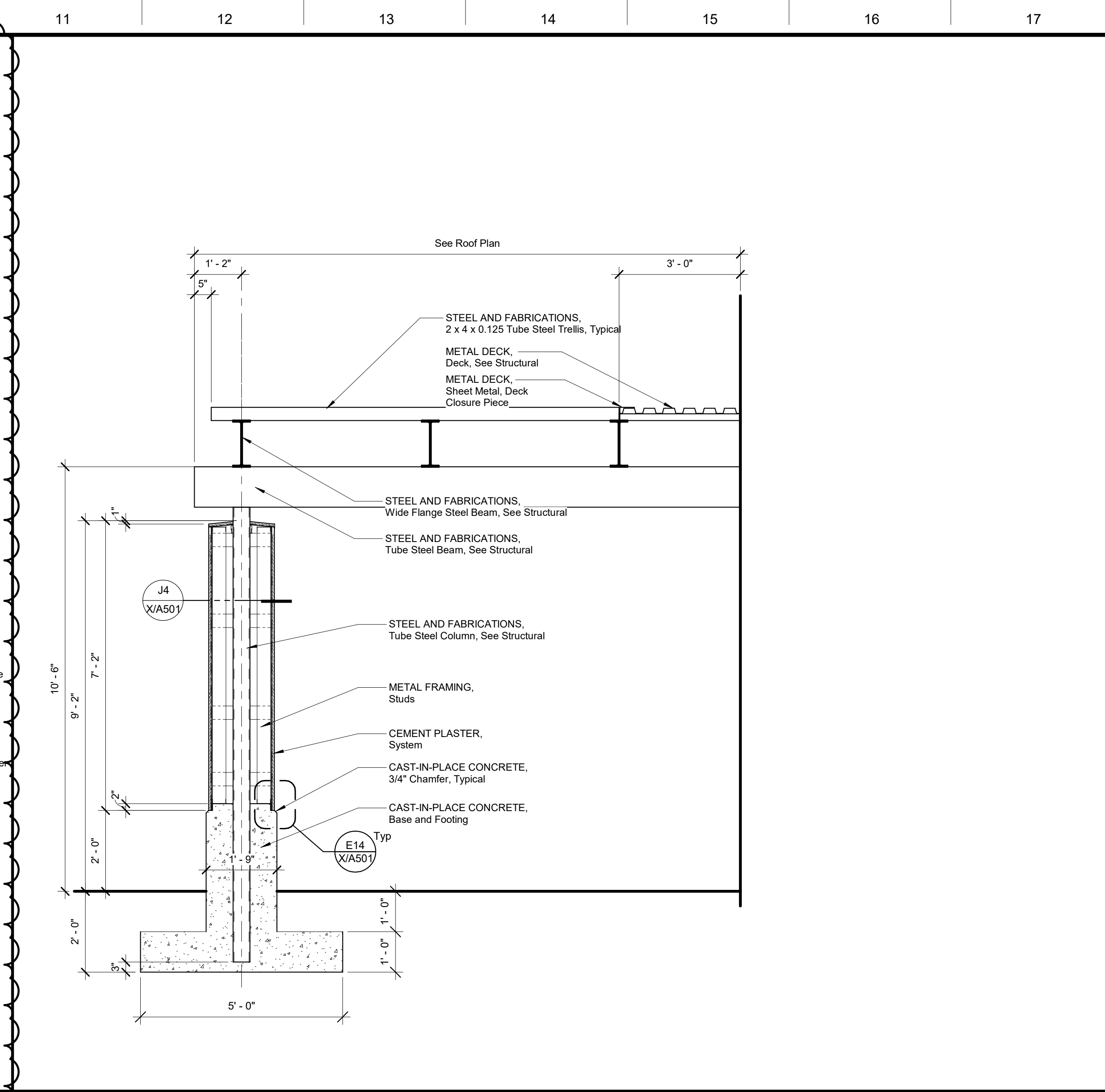
J1 SHEET METAL, Gutter at Trellis
3" = 1'-0"



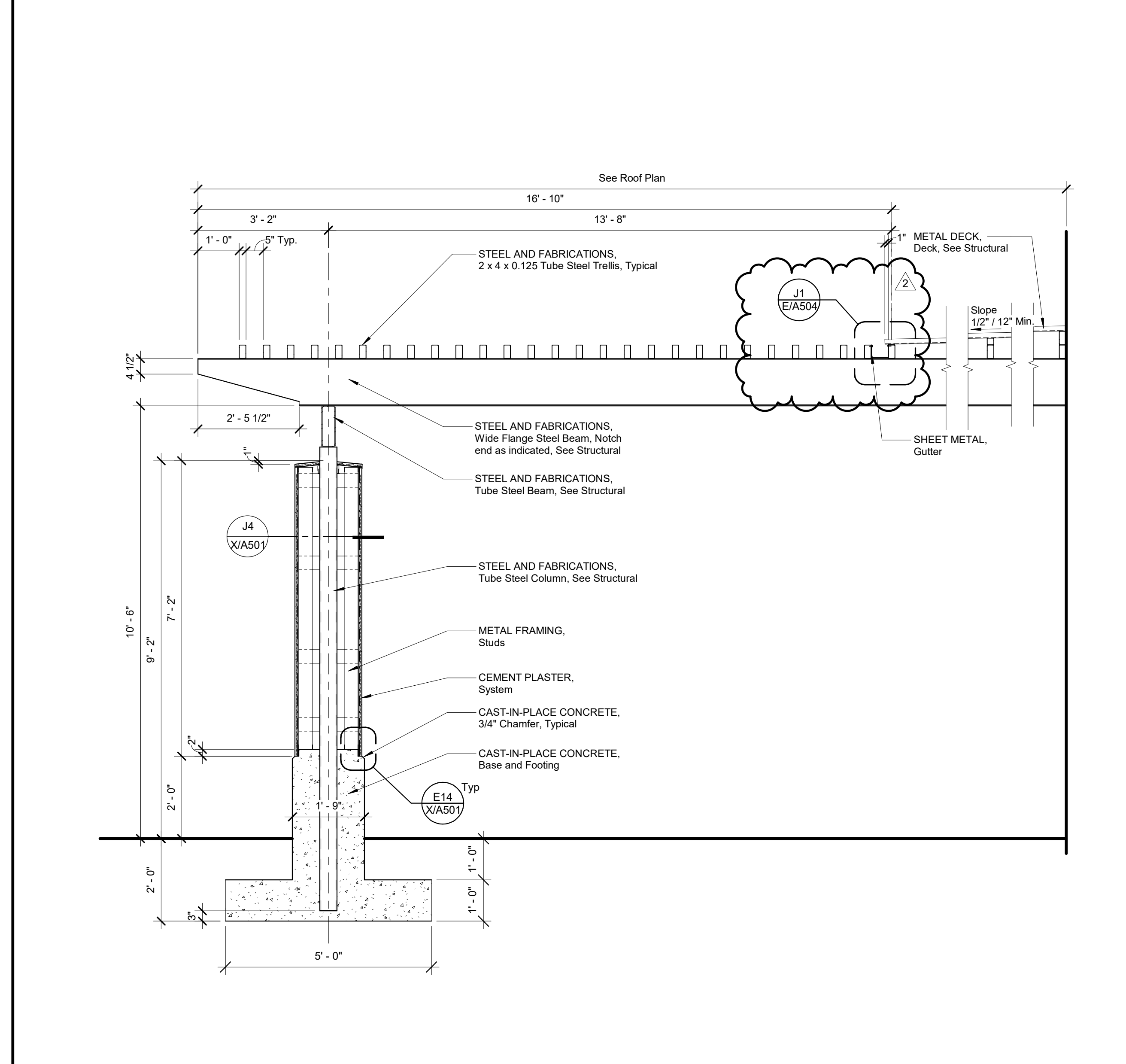
J4 Section at Proscenium
1 1/2" = 1'-0"



A4 CAST-IN-PLACE CONCRETE, Stem wall at Exterior Ramp
3" = 1'-0"



J11 Section at MPR Side Trellis
1/2" = 1'-0"



A11 Section at MPR Entrance Trellis
1/2" = 1'-0"

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
Fresno, CA 93727

BUILDING E- MPR
WALL SECTIONS

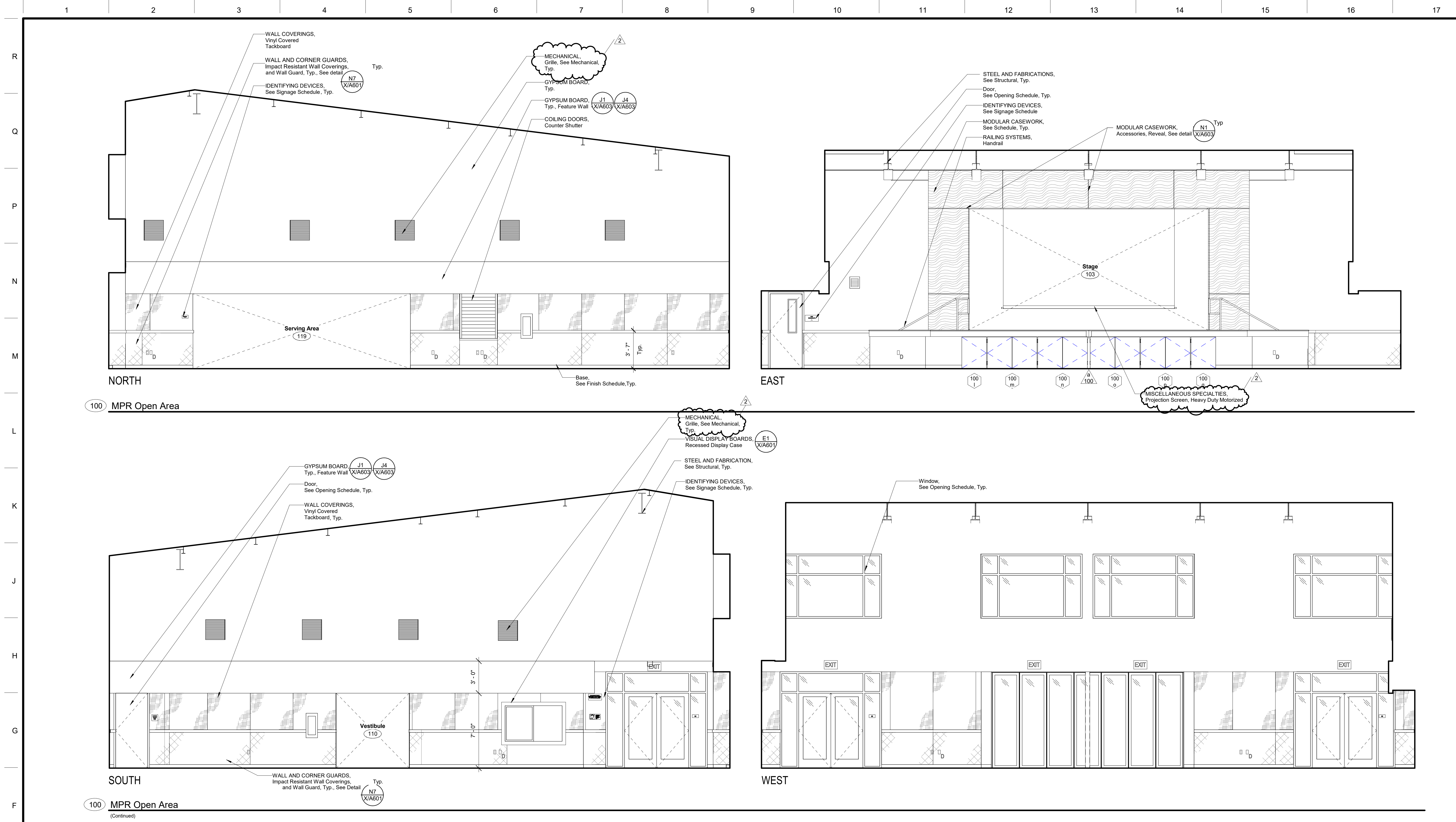
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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Revision	
Designed Designer	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author
Project Number: 2116	Checked/Checker
Date: 02/15/23	Review/Approver

E/A504

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DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

SYMBOLS

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- ELECTRICAL, Microphone Outlet
- ELECTRICAL, Intrusion Sensor
- ELECTRICAL, Motion Sensor
- ELECTRICAL, Telephone Outlet
- OWNER FURNISHED ITEM, Keypad, see ELECTRICAL
- GLASS

ABBREVIATIONS

- CL Glass
- KS Knee Space
- OH Opposite Hand
- Typ. Typical
- Sim. Similar
- Dia. Diameter
- UNO Unless Noted Otherwise

NOTES

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13. WALL AND CORNER GUARDS, Corner Guard, see detail
14. For Modular Casework Schedules, Refer to X/A301 through X/A304

F18	Interior Elevation Legend
No Scale	

McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District
 Fresno, CA 93727 Project

BUILDING E- MPR
 INTERIOR ELEVATIONS- ROOM 100 Drawing

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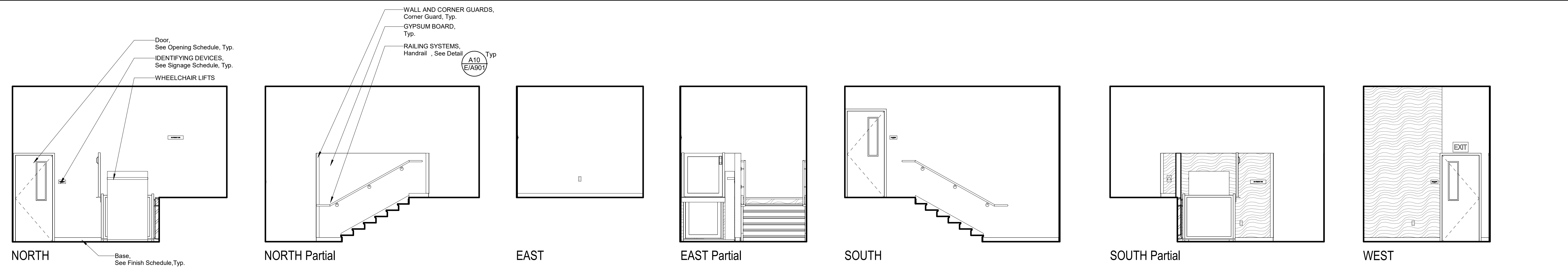
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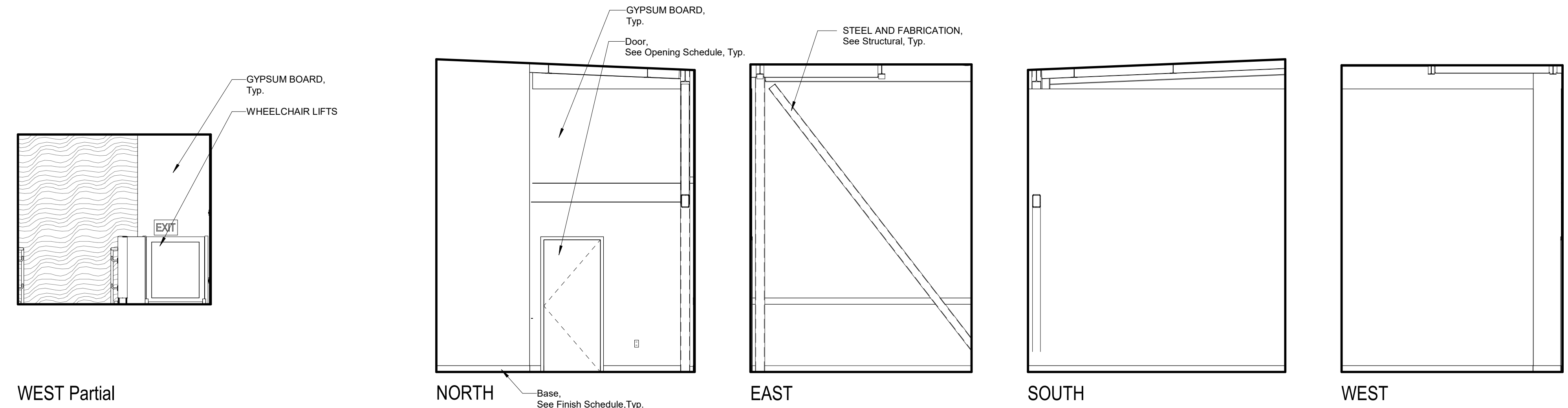
No.	Revision/Submission	Date
2	Addendum 2	07/24/23
Revision		
Designed Designer	Copyright © 2022 Darden Architects	
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Project Number: 2116	Checked/Checker	
Date: 02/15/23	Review/Approver	

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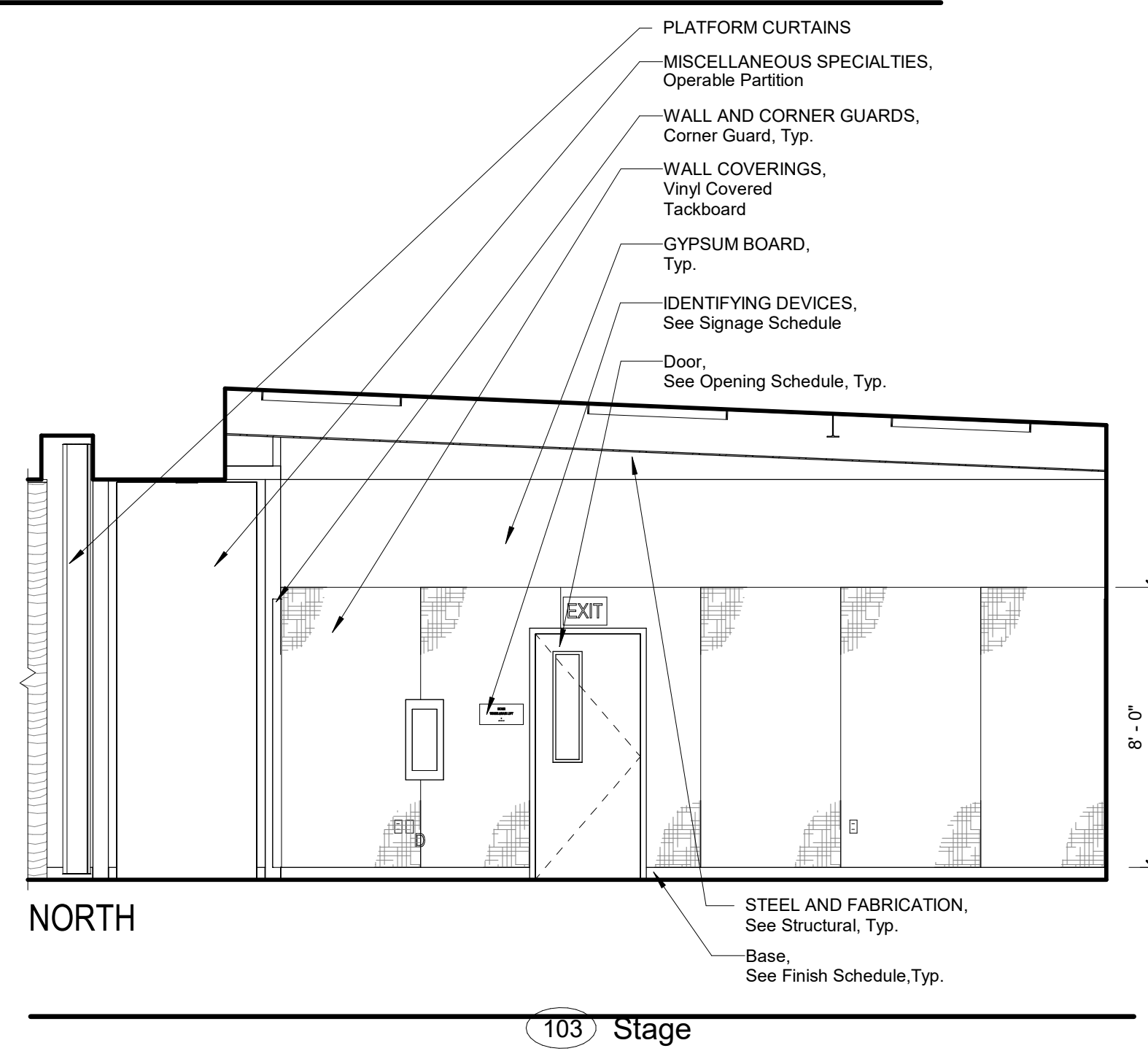
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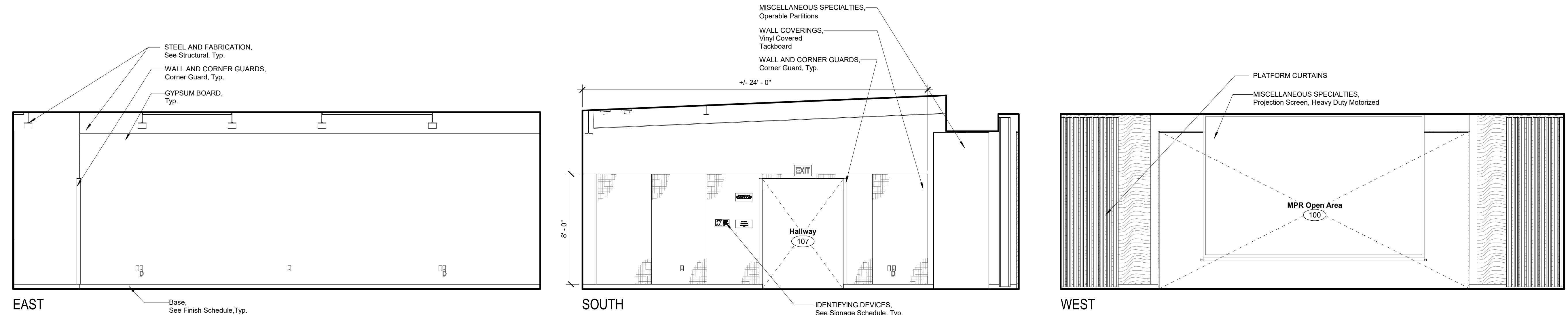
101 Stage Stairs



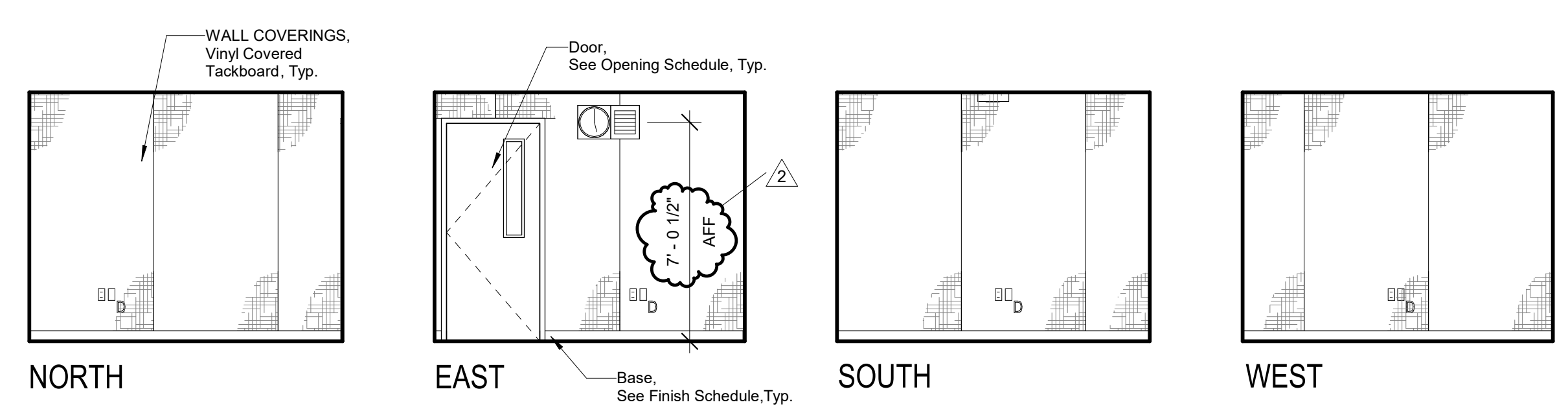
102 Electrical Room



103 Stage



103 Stage (Continued)



104 Music Office

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

- SYMBOLS**
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 - ELECTRICAL, Telephone Outlet
 - OWNER FURNISHED ITEM, Keypad, see ELECTRICAL
 - GLASS

- ABBREVIATIONS**
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 12. Provide backing at all OWNER FURNISHED ITEMS, Television per detail
 13. WALL AND CORNER GUARDS, Corner Guard, see detail
 14. For Modular Casework Schedules, Refer to X/A301 through X/A304

F18	Interior Elevation Legend
No Scale	

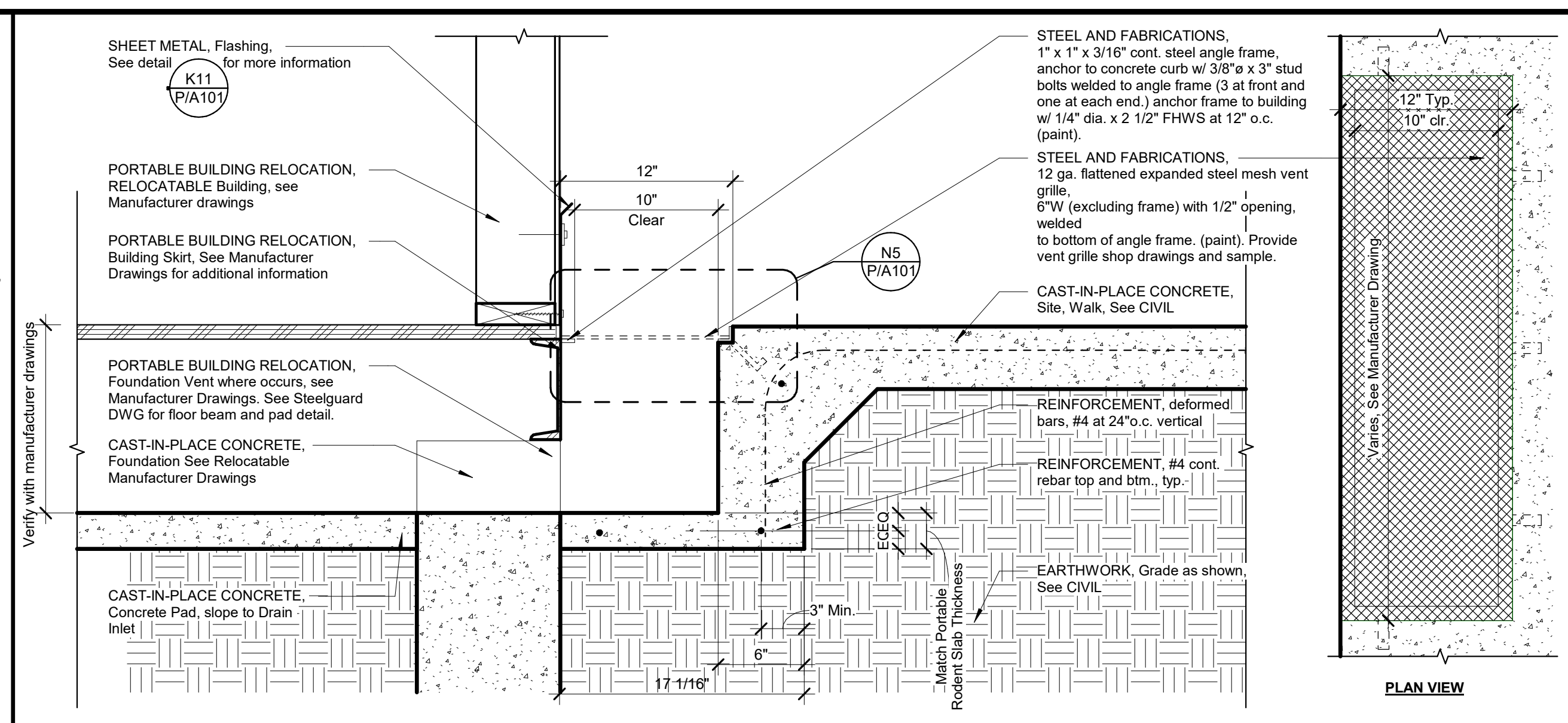
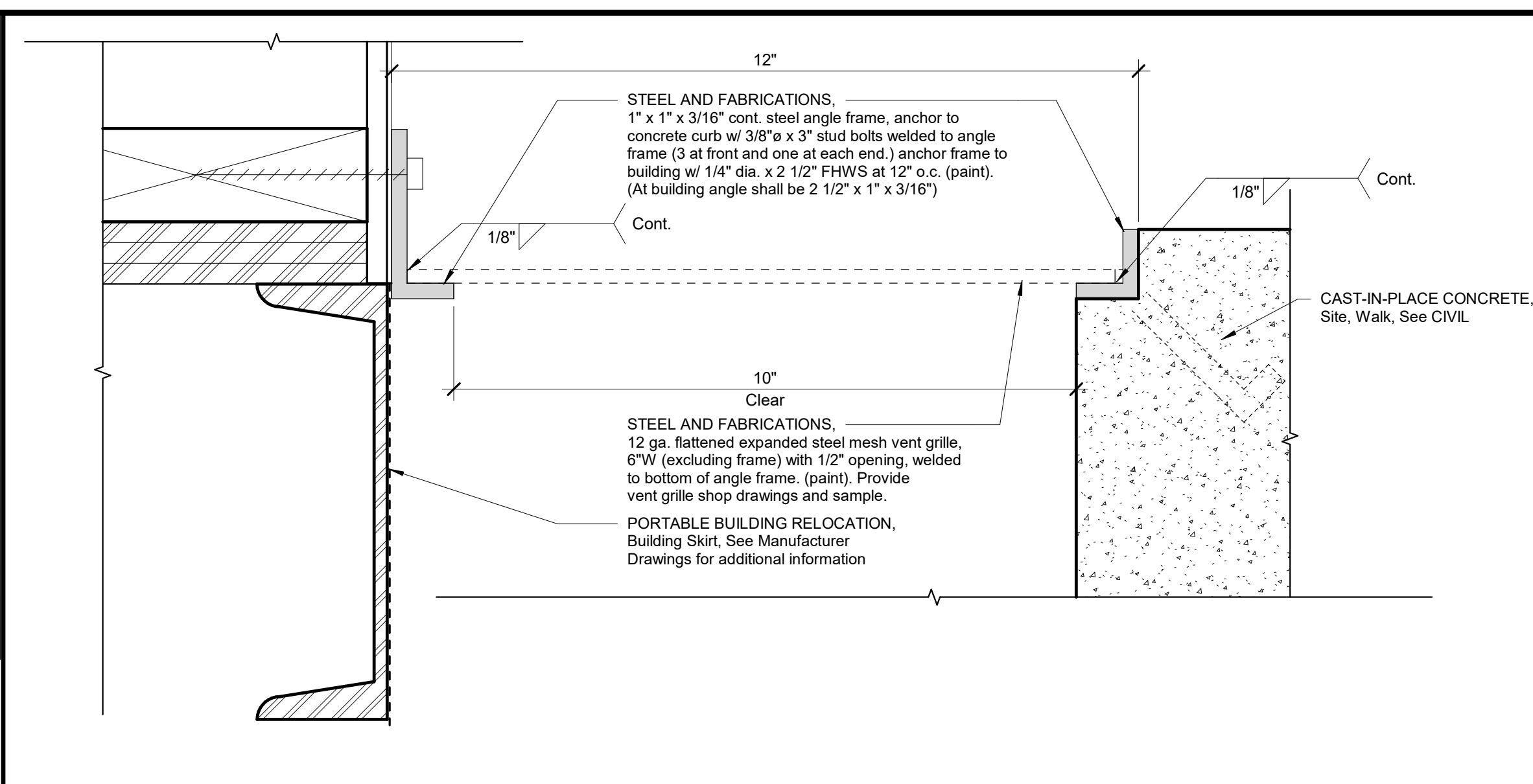
McKinley/Fowler Elementary School- Increment 2
Clovis Unified School District
Fresno, CA 93727 Project

BUILDING E- MPR
INTERIOR ELEVATIONS- ROOMS 101-104
Drawing

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No.	Revision/Submission	Date
2	Addendum 2	07/24/23
Revision		
Designed Designer	Copyright 2022 Darden Architects	
Scale: 1/4" = 1'-0"	Drawn By: Author	E/A602
Project Number: 2116	Checked IChecker	
Date: 02/15/23	Review/Approver	

Signage Schedule- Building P									
Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Mtg Height	Mtg Cond	Remarks		
100a	5a	EP	100	-	4' - 11"	1	-		
100aa	2d	IP	-	-	4' - 11"	1	-		
100ab	2a	IP	RESTROOM	-	4' - 11"	1	-		
100b	6a	IP	EXIT	-	4' - 11"	1	-		
100ba	2a	IP	RESTROOM	-	4' - 11"	1	-		
100bb	2d	IP	-	-	4' - 11"	1	-		
100c	6a	IP	EXIT	-	4' - 11"	1	-		
100ca	4a	IP	PLEASE ASK	-	4' - 11"	1	-		
100d	5a	EP	100	-	4' - 11"	1	-		
101a	5a	EP	100	-	4' - 11"	1	-		
101aa	2d	IP	-	-	4' - 11"	1	-		
101ab	2a	IP	RESTROOM	-	4' - 11"	1	-		
101b	6a	IP	EXIT	-	4' - 11"	1	-		
101ba	2a	IP	RESTROOM	-	4' - 11"	1	-		
101bb	2d	IP	-	-	4' - 11"	1	-		
101c	4a	IP	PLEASE ASK	-	4' - 11"	1	-		
101d	5a	EP	100	-	4' - 11"	1	-		



DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

SYMBOLS

- Concrete Masonry Unit Wall, 8" wide unless otherwise noted.
- Concrete Wall, or Column. Size as indicated.
- Stud Wall. Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Densifying Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.
- Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16" o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 2 Hr. Fire Wall
- 2 Hr. Fire Resistant Construction, 1-1/2 Hr. Door Assemblies)
- 2 Hr. Fire Barrier
- 2 Hr. Fire Resistant Construction, 1-1/2 Hr. Door Assemblies)

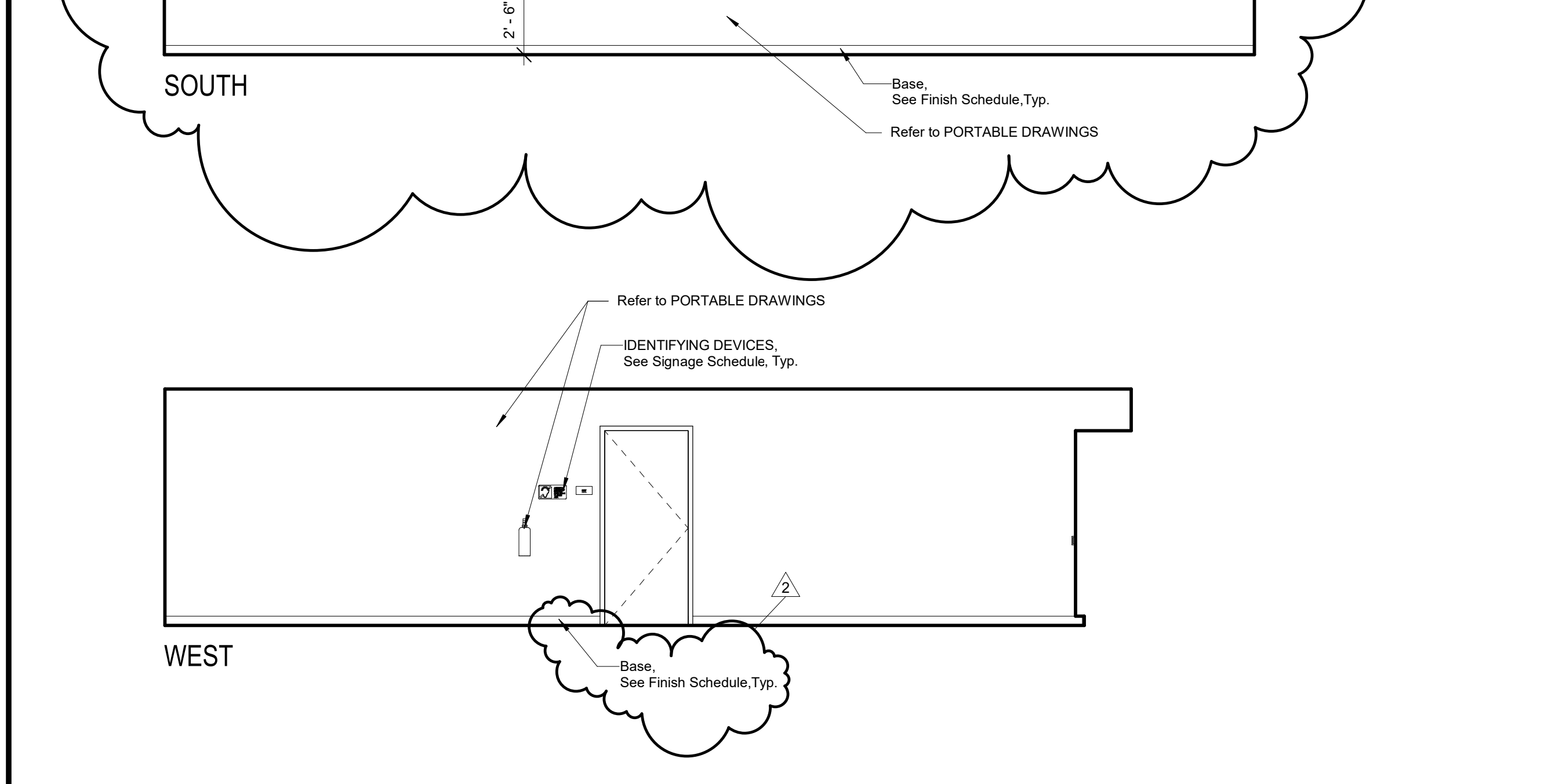
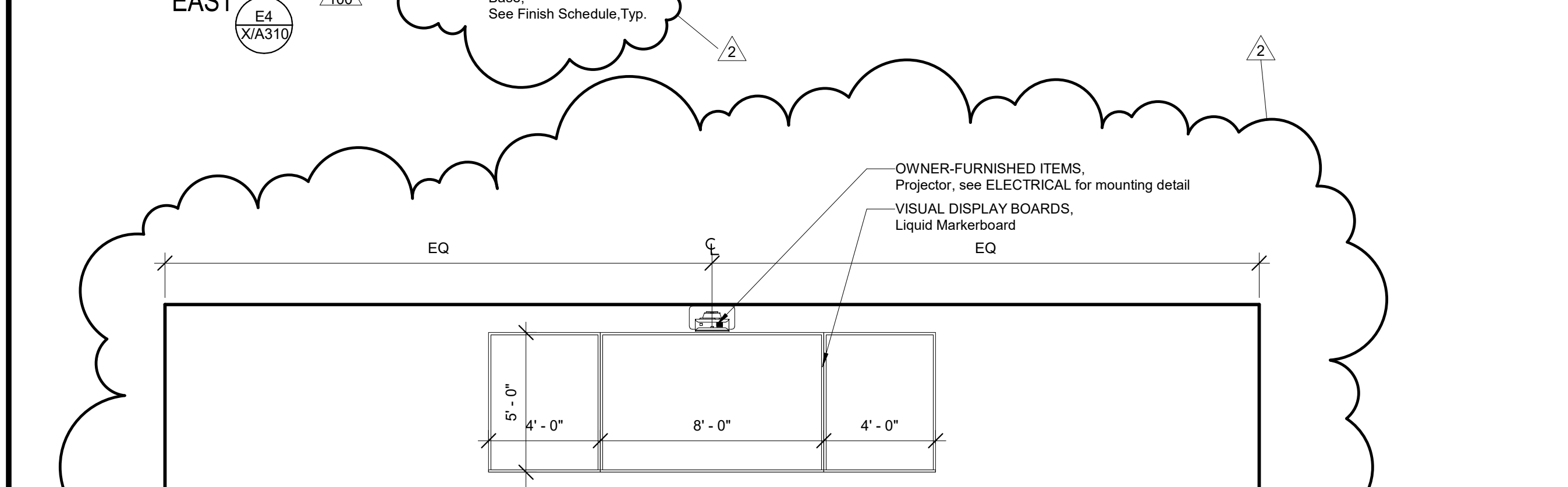
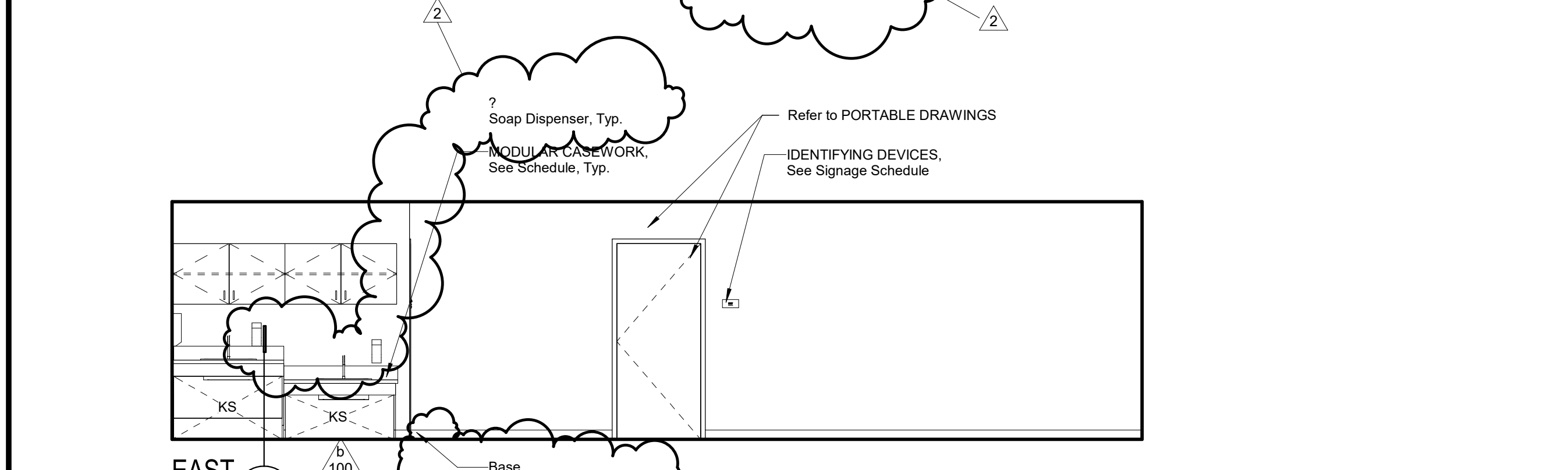
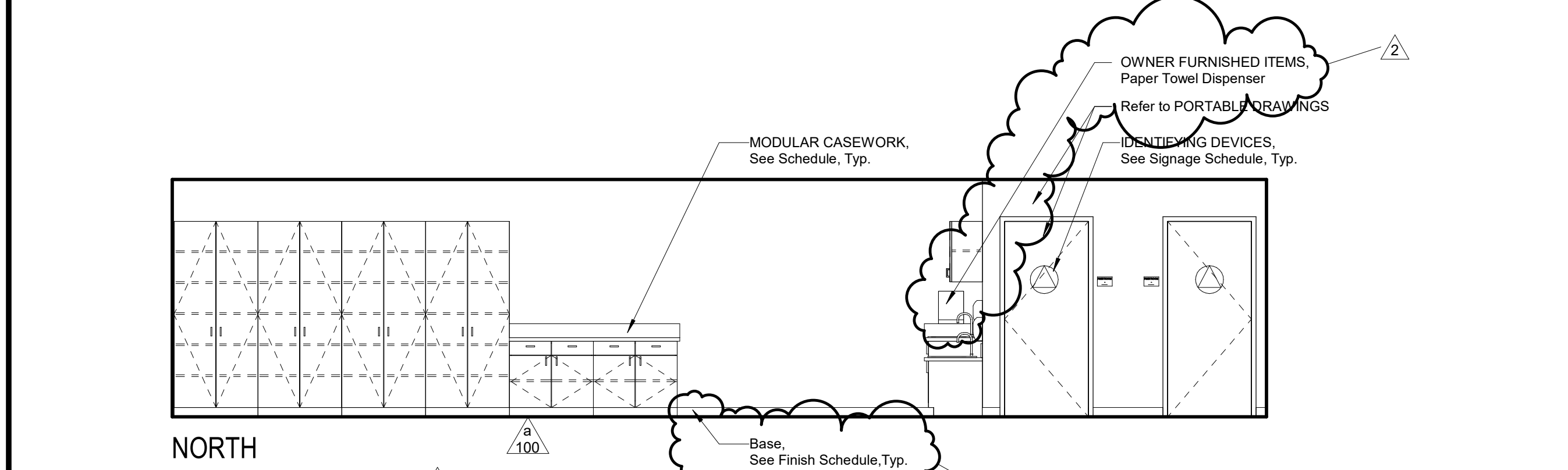
ABBREVIATIONS

- FIBC FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FIBC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls. Where Stud Depth is Less than 8" and at Masonry Walls, See A11 X/A603
- FEK FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEK-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls, See A11 X/A603
- FF Face of Finish
- FOC Face of Concrete
- FD Floor Drain
- FOM Face of Masonry
- FOS Face of Stud
- FS Floor Sink
- HB Hose Bib
- MO Masonry Opening
- UNO Unless Noted Otherwise
- RO Rough Opening
- VCT RESILIENT FLOORING, Vinyl Composition Tile
- Typ. Typical
- Sim. Similar
- OH Opposite Hand

N1 Signage Schedule
 See A8 for Signage Schedule Legend

N5 PORTABLE BUILDING RELOCATION, Vent Support Detail
 6" = 1'-0"

N11 PORTABLE BUILDING RELOCATION, Site Slab, Portable Venting
 1 1/2" = 1'-0"

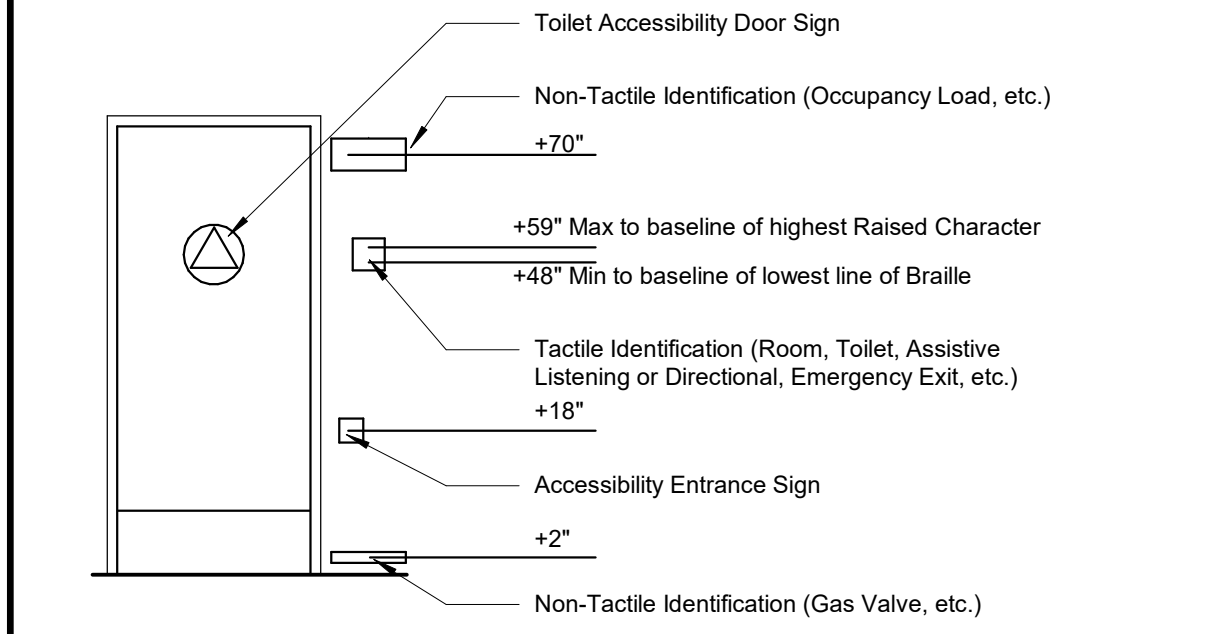
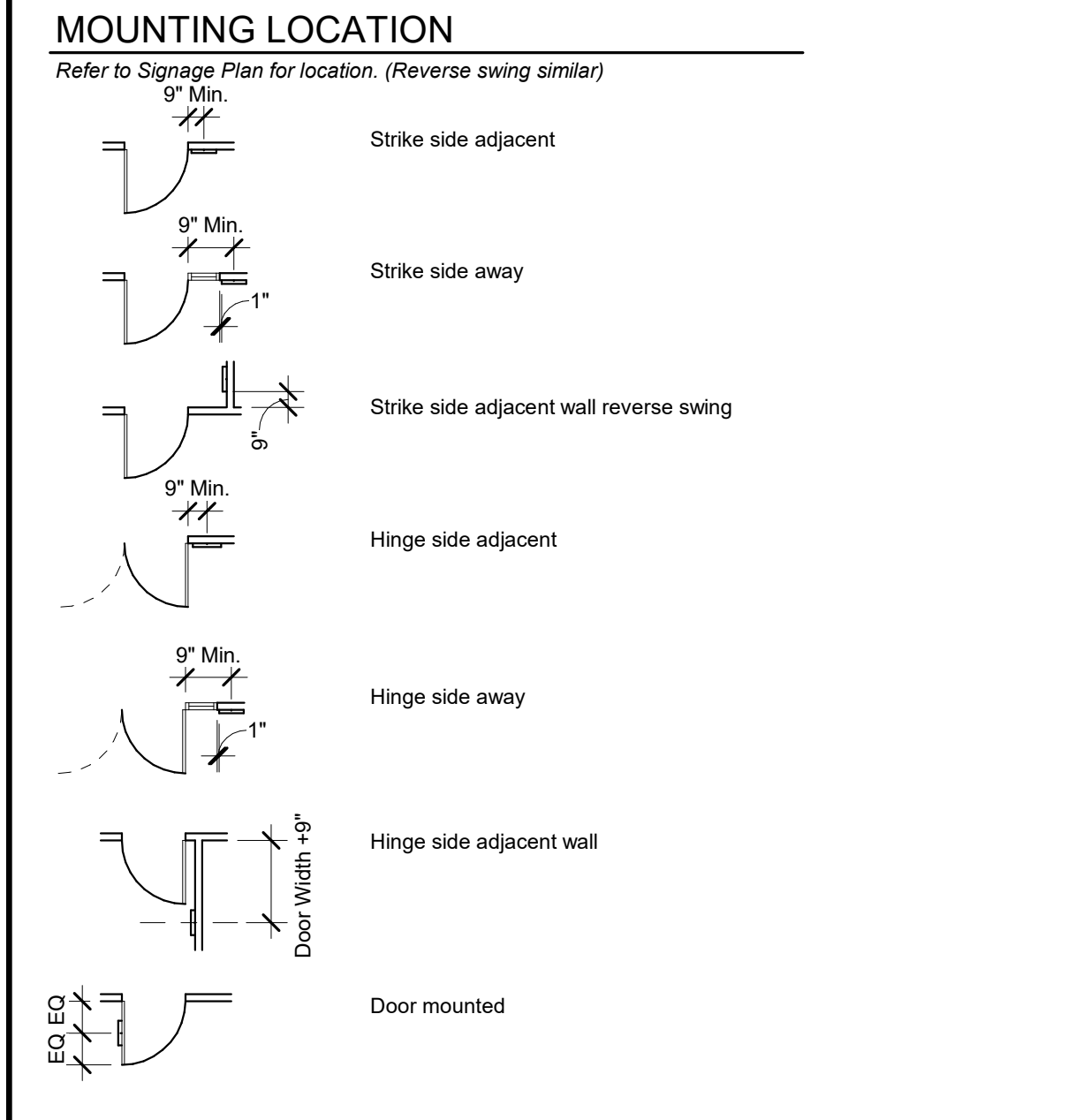


MOUNTING CONDITION

1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

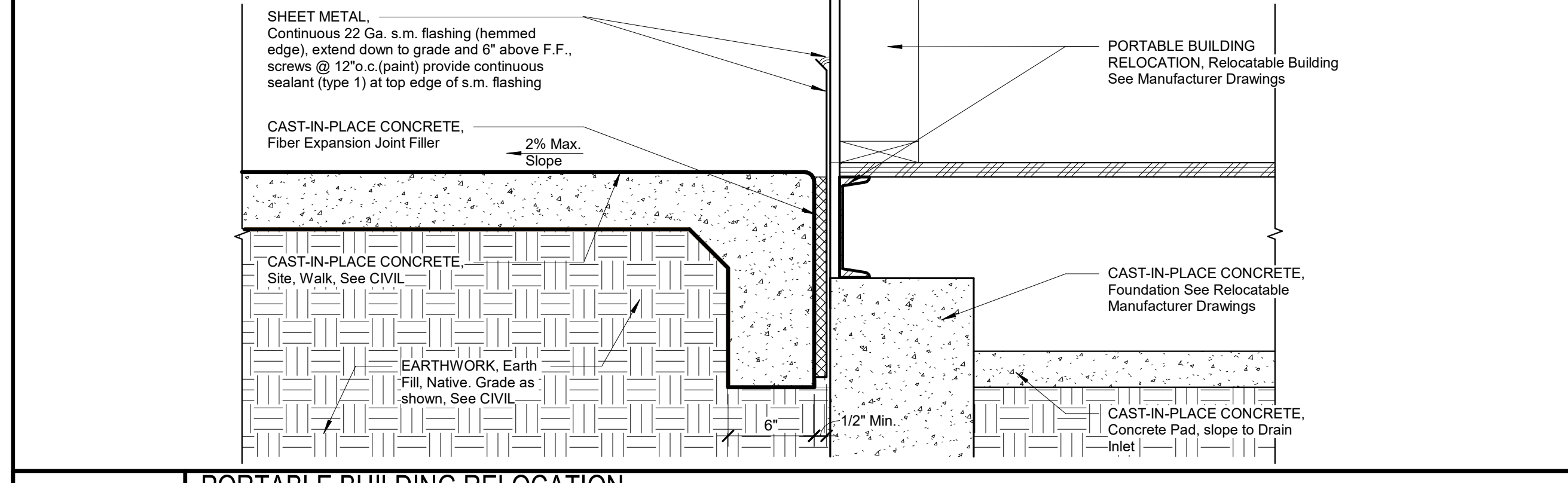
SIGN MATERIAL

- A = Acrylic
- EM = Exterior Metal
- IM = Interior Metal
- EP = Exterior Plastic
- IP = Interior Plastic
- D = Decal

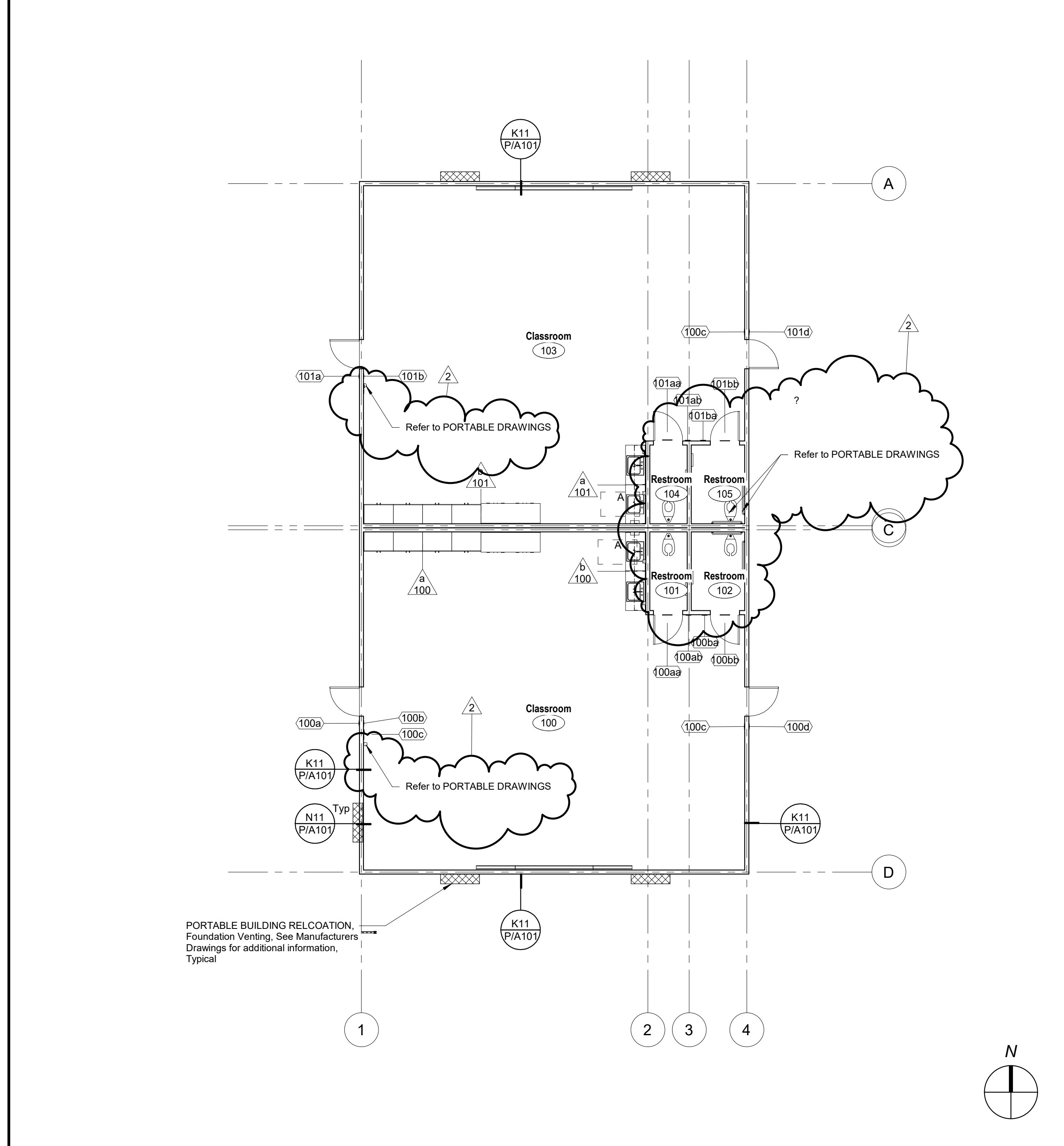


NOTES

1. Refer to Specification Section IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication. "-" indicates a blank space.
4. For IDENTIFYING DEVICES, Signage Dimensions, refer to detail E11 X/A601



K11 PORTABLE BUILDING RELOCATION, Concrete Curb, AMS Portable
 1 1/2" = 1'-0"



A1 Interior Elevations- Classroom 100 (O.H. at Classroom 103)
 1/4" = 1'-0"

A8 Signage Schedule Legend
 No Scale

A11 Floor Plan
 1/8" = 1'-0"

F18 Floor Plan Legend
 No Scale

McKinley/Fowler Elementary School- Increment 2
 Clovis Unified School District
 Fresno, CA 93727

BUILDING P
 FLOOR PLAN, INTERIOR ELEVATIONS, AND SIGNAGE PLAN
 Drawing

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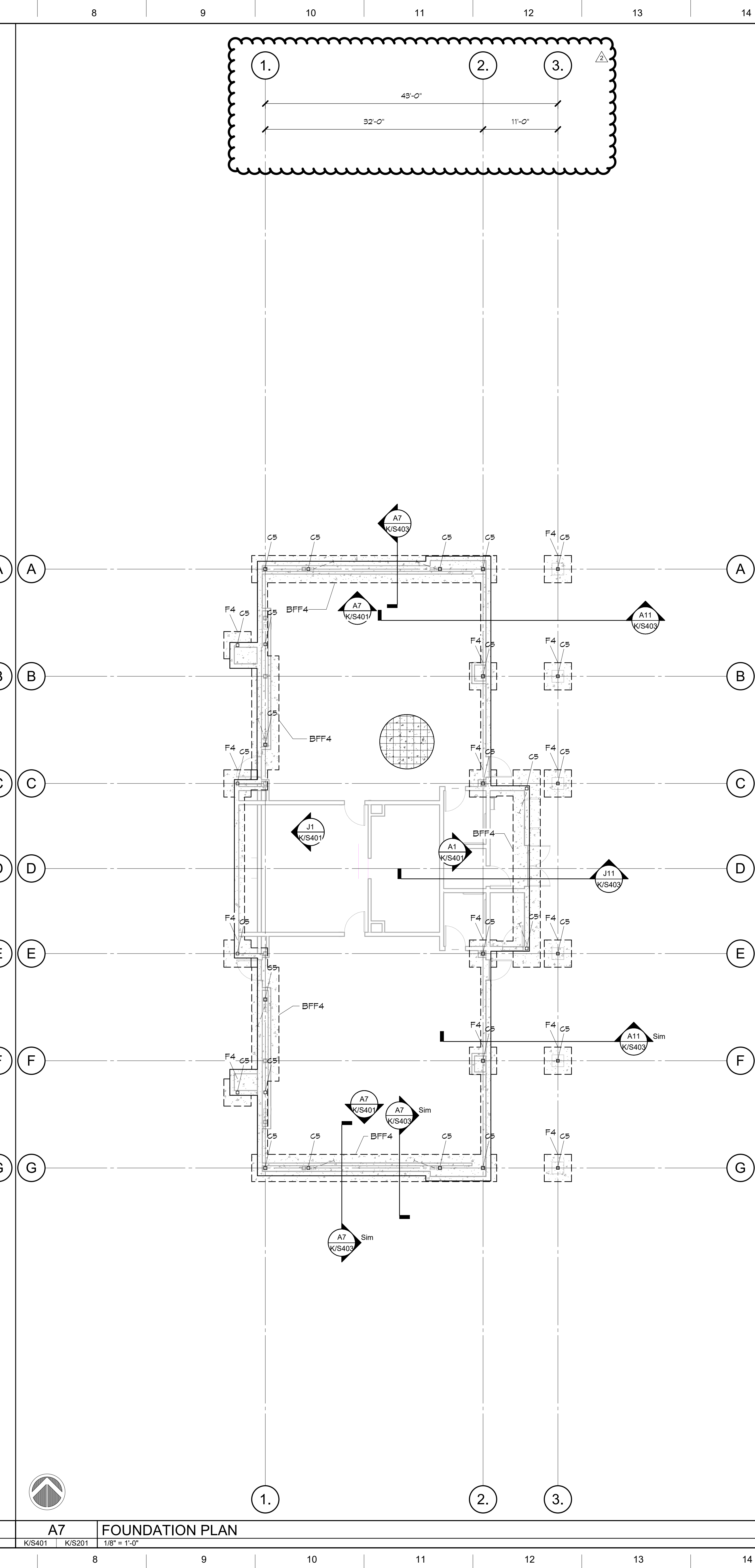
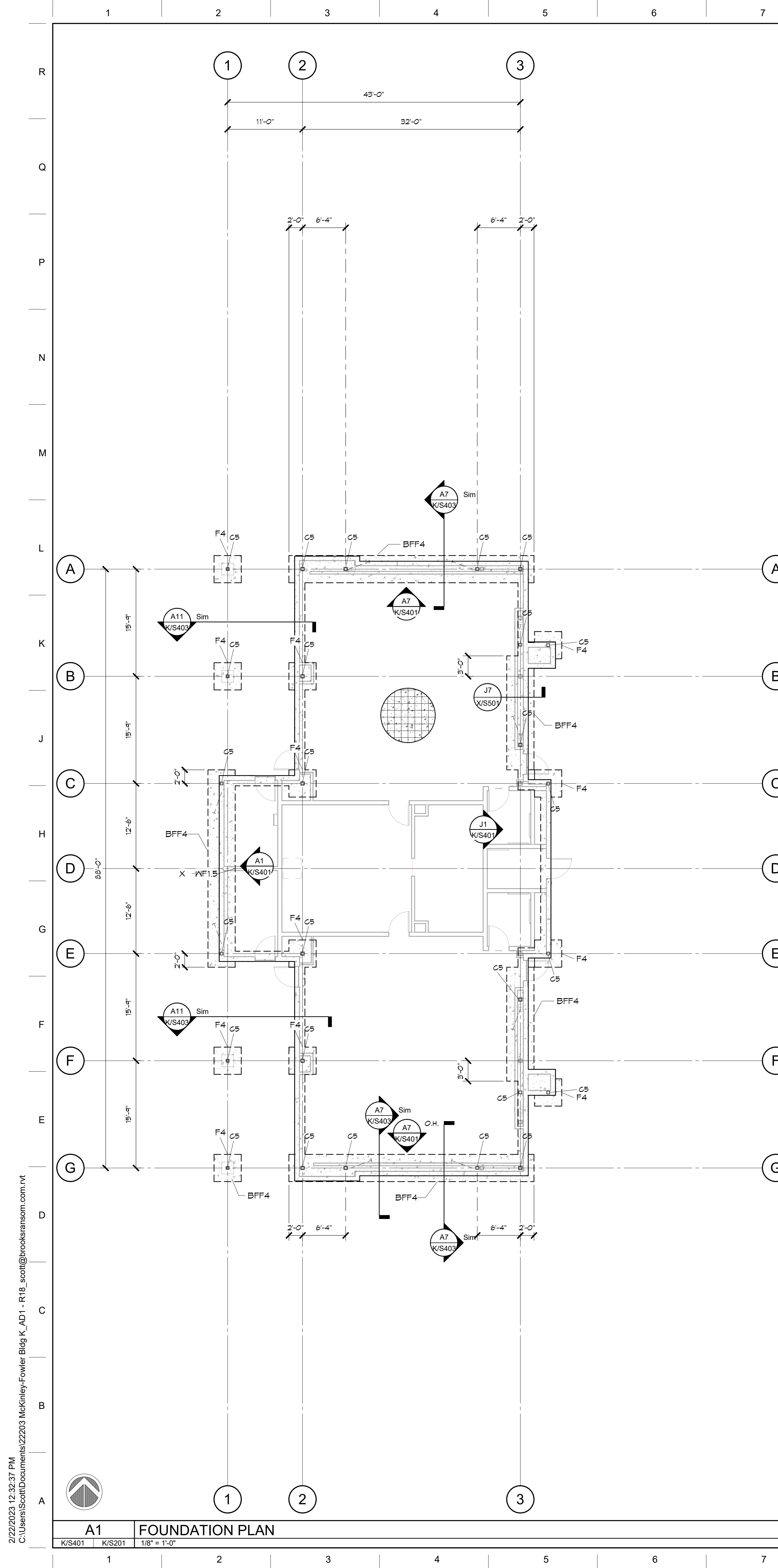
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No.	Revision/Submission	Date
2	Addendum 2	07/24/23

Revision

Designed Designer	Copyright 2022 Darden Architects
Drawn By: Author	P/A101
Project Number: 2116	Checked/Checker
Date: 02/15/23	Review/Approver

2/24/2023 6:32:37 PM
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 35_MASTER_and_SITE_V18_Increment_2_Addenda_andrew@dardenarchitects.com.rvt



- SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD 'TYPICAL,' FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
- ALL DIMENSIONS SHOWN ARE TO FACE OF EXTERIOR WALLS, CENTER OF COLUMN OR CENTER OF INTERIOR WALLS UNLESS NOTED OTHERWISE. EDGE OF SLAB AT PERIMETER OF BUILDING SHALL BE INDICATED IN SPECIFIC DETAILS AND ARCHITECTURAL. VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH THE DIMENSIONS SHOWN.
- ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
- ALL PAD AND CONTINUOUS FOOTINGS ARE TO BE CENTERED ON WALLS AND COLUMNS ABOVE UNLESS NOTED OTHERWISE.
- SEE CIVIL AND/OR ARCHITECTURAL SITE PLAN FOR LOCATION AND DIMENSIONS OF SIDEWALKS, MON STRIPS, PLANTERS AND OTHER LANDSCAPING FEATURES.
- SEE ARCHITECTURAL AND PLUMBING PLANS FOR LOCATION OF ALL PIPING AND DRAINS. SEE TYPICAL DETAILS FOR STRUCTURAL REQUIREMENTS AT LOCATIONS WHERE PIPES INTERSECT OR ALIGN NEXT TO FOOTINGS AND SLABS.
- ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURED PRIOR TO POURING OF CONCRETE.
- ALL SILL PLATE ANCHOR BOLTS SHALL BE SIZED, SPACED, PLACED, AND HAVE THE WASHER AND MATERIAL FINISH AS SPECIFIED IN THE **LIGHT GAUGE STEEL NOTES**.
- CONTRACTOR SHALL SUBMIT CONTROL JOINT PLAN FOR APPROVAL PRIOR TO POURING SLAB. SEE TYPICAL **CONTROL JOINT** DETAIL FOR ADDITIONAL INFORMATION.
- ALL TOP OF FOOTINGS SHALL BE 1'-0" BELOW FINISH SLAB, UNLESS NOTED OTHERWISE.
- ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

N14 STEEL FOUNDATION NOTES
K/S201 NOT TO SCALE

- STEEL STUDS, AT EXTERIOR WALL LOCATIONS, PROVIDE 2005162-54 @ 16" O.C., U.N.O. SEE TYPICAL **BEARING AND EXTERIOR WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL.
- INTERIOR STUD WALL, SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.
- 'XX' AS INDICATED ON PLAN. SEE TYPICAL **SCHEDULES** AS FOLLOWS:
C# - COLUMN SCHEDULE
F# - FOOTING SCHEDULE
M# - MALL SCHEDULE
W# - WALL SCHEDULE
- T.O.F. 'X-X' IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.
- BRACE, SEE ELEVATION FOR SIZE AND ORIENTATION.
- CONCRETE SLAB, PROVIDE 5" THICK MINIMUM SLAB WITH #4 @ 18" O.C. EACH WAY, U.N.O. ON 2" OF SAND THAT IS PLACED ON A MINIMUM 10 MIL THICK MOISTURE VAPOR BARRIER. SEE TYPICAL **CONCRETE NOTES** FOR ADDITIONAL INFORMATION.

E14 FOUNDATION LEGEND
K/S201 NOT TO SCALE

STRUCTURAL COLUMN SCHEDULE		
MARK	TYPE	COMMENTS
C5	H55X5X1/4	SEE TYPICAL A14-X/S104 DETAIL FOR ADDL INFORMATION, U.N.O.

STRUCTURAL FOUNDATION SCHEDULE		
MARK	TYPE	REINFORCEMENT
BFF4	4'-0"X1'-6" DEEP CONTN. FOOTING	(4) #6 BARS TIB W/ 90° HOOKS AT END, #5 TIES AT 6" O.C.
F4	4'-0" SQUARE X 1'-6" DEEP	(4) #5 BARS BOTTOM EACH WAY
WF1.5	1'-6" X 1'-6" CONTN. FOOTING	(2) #5 LONG. BARS BOTTOM

DSA File No.:
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BrooksRansom
REGISTERED PROFESSIONAL ENGINEER
CALIFORNIA REGISTERED PROFESSIONAL ENGINEER
No. 52386
EXPIRES 12-31-24
11-2020
2220

McKinley/Fowler Elementary School
Clovis Unified School District
PROJECT ADDRESS
BUILDING K - KINDERGARTEN
FOUNDATION PLAN
Drawing

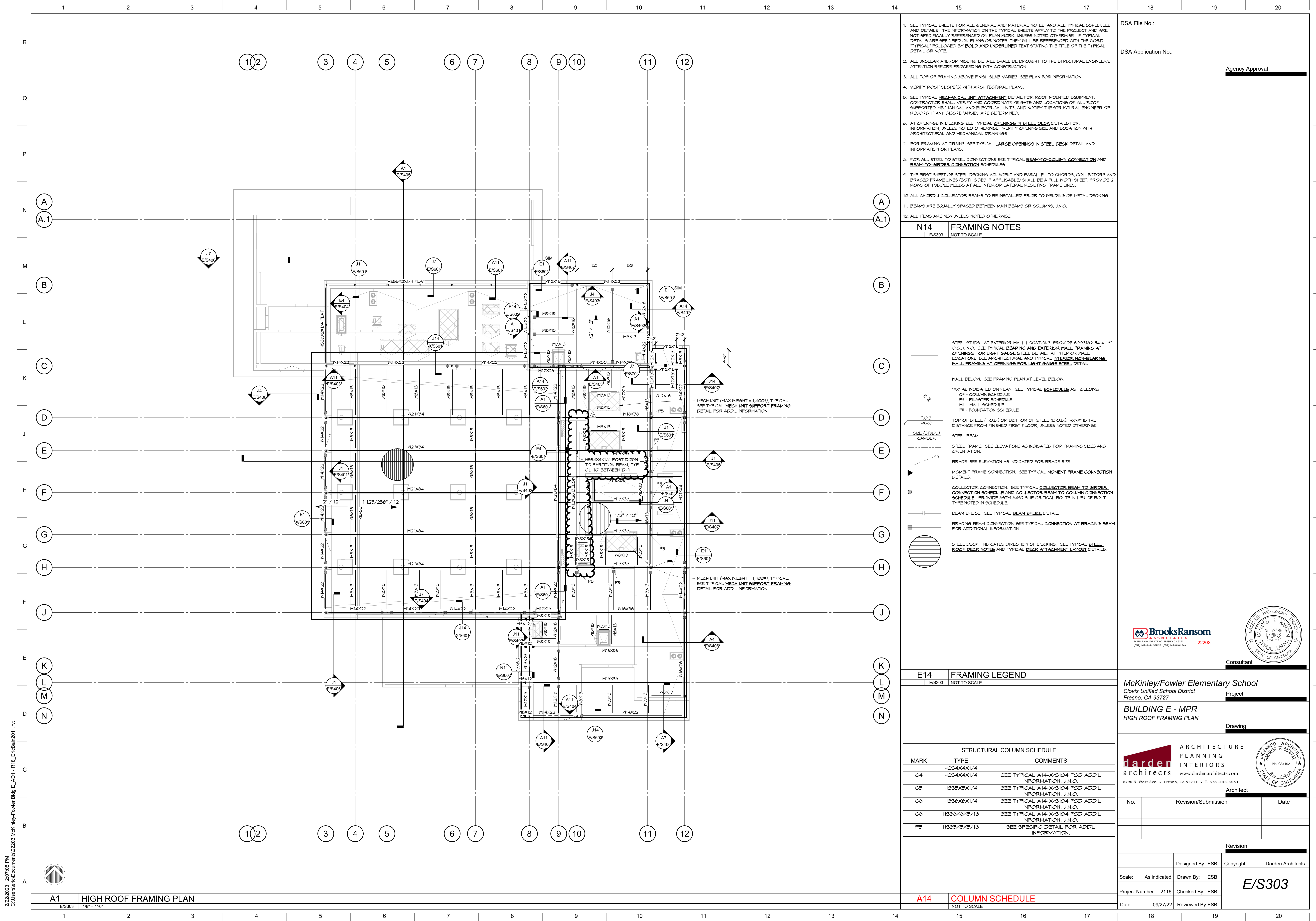
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No.	Revision/Submission	Date

Designed By: SOC
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Scale: As indicated
Drawn By: SOC
Project Number: 2116
Checked By: SOC
Date: 09/27/22
Reviewed By SOC

K/S201

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- SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD TYPICAL FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
- ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
- ALL TOP OF FRAMING ABOVE FINISH SLAB VARIES, SEE PLAN FOR INFORMATION.
- VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
- SEE TYPICAL MECHANICAL UNIT ATTACHMENT DETAIL FOR ROOF MOUNTED EQUIPMENT. CONTRACTOR SHALL VERIFY AND COORDINATE WEIGHTS AND LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL UNITS, AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY DISCREPANCIES ARE DETERMINED.
- AT OPENINGS IN DECKING SEE TYPICAL **OPENINGS IN STEEL DECK** DETAILS FOR INFORMATION, UNLESS NOTED OTHERWISE. VERIFY OPENING SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- FOR FRAMING AT DRAINS, SEE TYPICAL **LARGE OPENINGS IN STEEL DECK** DETAIL AND INFORMATION ON PLANS.
- FOR ALL STEEL TO STEEL CONNECTIONS SEE TYPICAL **BEAM-TO-COLUMN CONNECTION** AND **BEAM-TO-GIRDER CONNECTION** SCHEDULES.
- THE FIRST SHEET OF STEEL DECKING ADJACENT AND PARALLEL TO CHORDS, COLLECTORS AND BRACED FRAME LINES (BOTH SIDES IF APPLICABLE) SHALL BE A FULL WIDTH SHEET. PROVIDE 2 ROWS OF PUDDLE WELDS AT ALL INTERIOR LATERAL RESISTING FRAME LINES.
- ALL CHORD & COLLECTOR BEAMS TO BE INSTALLED PRIOR TO WELDING OF METAL DECKING.
- BEAMS ARE EQUALLY SPACED BETWEEN MAIN BEAMS OR COLUMNS, U.N.O.
- ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

N14 FRAMING NOTES
E/S303 NOT TO SCALE

- STEEL STUDS: AT EXTERIOR WALL LOCATIONS, PROVIDE 600S162-54 @ 16" O.C., U.N.O. SEE TYPICAL **BEARING AND EXTERIOR WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL. AT INTERIOR WALL LOCATIONS, SEE ARCHITECTURAL AND TYPICAL **INTERIOR NON-BEARING WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL.
- WALL BELOW: SEE FRAMING PLAN AT LEVEL BELOW.
- "XX" AS INDICATED ON PLAN. SEE TYPICAL SCHEDULES AS FOLLOWS:
 C - COLUMN SCHEDULE
 P - PLASTER SCHEDULE
 W - WALL SCHEDULE
 F - FOUNDATION SCHEDULE
- T.O.S. - TOP OF STEEL (T.O.S.) OR BOTTOM OF STEEL (B.O.S.). "-X-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.
- SIZE (STUDS) / CAMBER - STEEL BEAM.
- STEEL FRAME: SEE ELEVATIONS AS INDICATED FOR FRAMING SIZES AND ORIENTATION.
- BRACE: SEE ELEVATION AS INDICATED FOR BRACE SIZE.
- MOMENT FRAME CONNECTION: SEE TYPICAL **MOMENT FRAME CONNECTION** DETAILS.
- COLLECTOR CONNECTION: SEE TYPICAL **COLLECTOR BEAM TO GIRDER CONNECTION SCHEDULE** AND **COLLECTOR BEAM TO COLUMN CONNECTION SCHEDULE**. PROVIDE ASTM A490 SLIP CRITICAL BOLTS IN LIEU OF BOLT TYPE NOTED IN SCHEDULE.
- BEAM SPLICE: SEE TYPICAL **BEAM SPLICE** DETAIL.
- BRACING BEAM CONNECTION: SEE TYPICAL **CONNECTION AT BRACING BEAM** FOR ADDITIONAL INFORMATION.
- STEEL DECK: INDICATES DIRECTION OF DECKING. SEE TYPICAL **STEEL ROOF DECK NOTES** AND TYPICAL **DECK ATTACHMENT LAYOUT** DETAILS.

E14 FRAMING LEGEND
E/S303 NOT TO SCALE

STRUCTURAL COLUMN SCHEDULE		
MARK	TYPE	COMMENTS
C4	H564X4X1/4	SEE TYPICAL A14-X/S104 FOD ADD'L INFORMATION, U.N.O.
C5	H555X5X1/4	SEE TYPICAL A14-X/S104 FOD ADD'L INFORMATION, U.N.O.
C6	H556X6X1/4	SEE TYPICAL A14-X/S104 FOD ADD'L INFORMATION, U.N.O.
C6	H556X6X5/16	SEE TYPICAL A14-X/S104 FOD ADD'L INFORMATION, U.N.O.
P5	H555X5X5/16	SEE SPECIFIC DETAIL FOR ADD'L INFORMATION.

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BrooksRansom ASSOCIATES
 22203
 (560) 449-8444 OFFICE (560) 449-8404 FAX

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McKinley/Fowler Elementary School
 Clovis Unified School District
 Fresno, CA 93727
BUILDING E - MPR
 HIGH ROOF FRAMING PLAN

Project
 Drawing

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Revision		
Designed By:	ESB	Copyright
Drawn By:	ESB	Darden Architects
Project Number:	2116	Checked By:
Date:	09/27/22	Reviewed By:

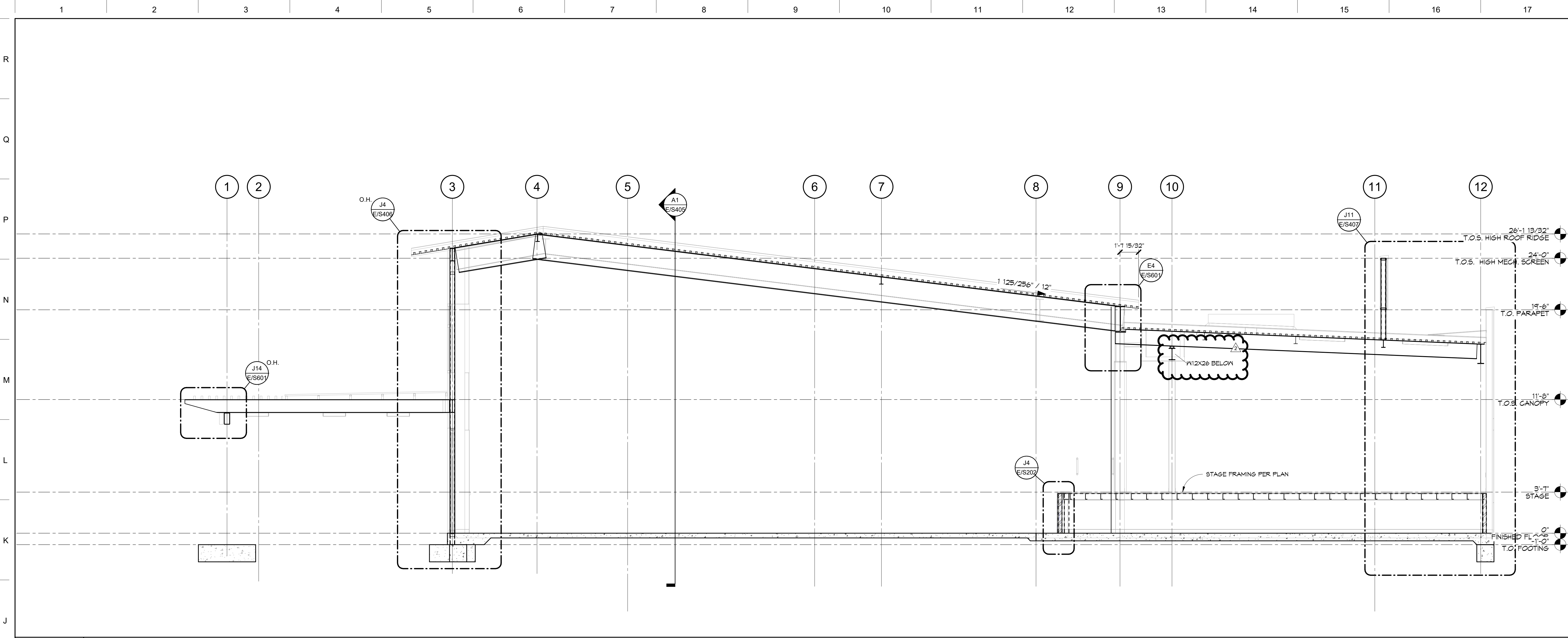
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A1 HIGH ROOF FRAMING PLAN
 E/S303 1/8" = 1'-0"

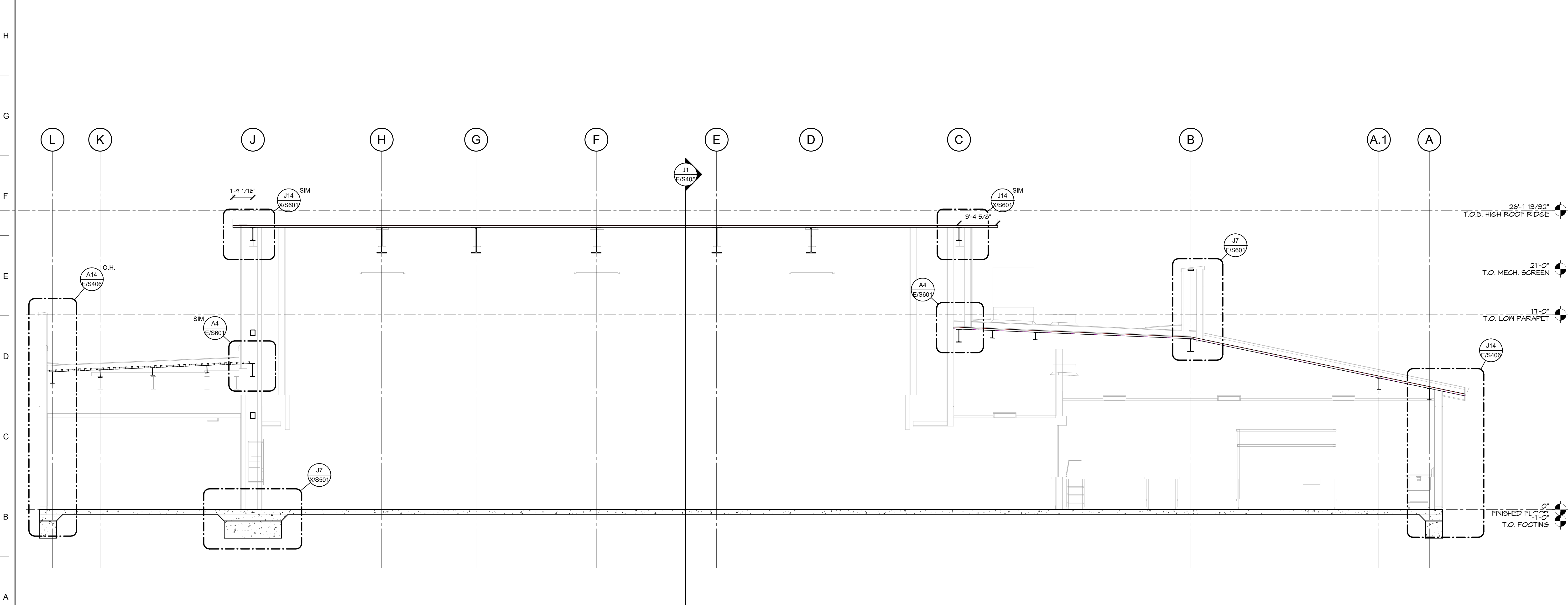
A14 COLUMN SCHEDULE
 NOT TO SCALE

E/S303

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J1 BUILDING SECTION
E/S201 E/S405 1/4" = 1'-0"



A1 BUILDING SECTION
E/S201 E/S405 1/4" = 1'-0"

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EXTERIORS
22203
CONSULTANT

McKinley/Fowler Elementary School
Clovis Unified School District
Fresno, CA 93727
Project

BUILDING E - MPR
BUILDING SECTIONS
Drawing

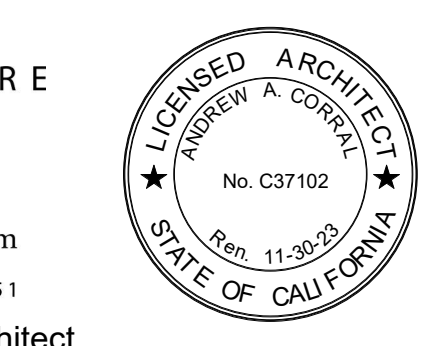
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Designed By: ESB Copyright Darden Architects
Drawn By: ESB
Project Number: 2116 Checked By: ESB
Date: 09/27/22 Reviewed By: ESB

E/S405

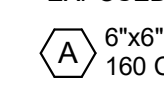
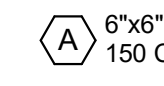
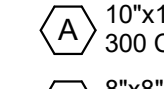
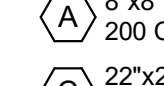
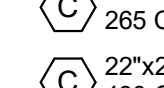
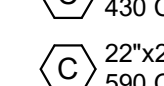
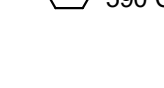


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KEYNOTES

- 1 CONCEALED DUCTED INDOOR UNIT, SUSPENDED FROM STRUCTURE. SEE DETAIL N11 ON XM801 FOR INSTALLATION.
- 2 HIGH WALL INDOOR UNIT. SEE DETAILS J4 & J7 ON XM800 FOR INSTALLATION.
- 3 OSA INTAKE OLVER. COORDINATE LOCATION AND FINISH WITH ARCHITECTURAL.
- 4 12"x12" EA UP THRU ROOF TO EF-A1. SEE SHEET AM301 FOR CONTINUATION.
- 5 34"x18" SA & 32"x18" RA DOWN THRU ROOF FROM HC-A1. SEE SHEET AM301 FOR CONTINUATION.
- 6 34"x18" SA & 32"x18" RA DOWN THRU ROOF FROM HC-A2. SEE SHEET AM301 FOR CONTINUATION.
- 7 SUPPLY DUCT SMOKE DETECTOR FOR UNIT SHUTDOWN PER DETAIL J1 ON XM800.
- 8 DUCT ROUTED PARALLEL TO UNDERSIDE OF STRUCTURE, SUSPENDED WITH ALL THREAD AND 2" STRAP PER DETAIL X ON SHEET XM801. PREP EXPOSED DUCT AND ACCESSORIES FOR FIELD PAINTING BY OTHERS.
- 9  6"x6" - 4W
160 CFM
- 10  6"x6" - 4W
150 CFM
- 11  10"x10" - 4W
300 CFM
- 12  8"x8" - 4W
200 CFM
- 13  22"x22"
265 CFM
- 14  22"x22"
430 CFM
- 15  22"x22"
590 CFM

GENERAL NOTES

- A SEE DETAIL N14 ON XM800 FOR TYPICAL CEILING GRILLE INSTALLATION.
- B SEE DETAIL J14 ON XM800 FOR TYPICAL BRANCH DUCT INSTALLATION.
- C SEE DETAIL E14 ON XM800 FOR TYPICAL SUSPENDED DUCT SUPPORTS, UNLESS OTHERWISE NOTED.
- D SEE SHEET A/M102 FOR DUCT LAYOUT AND NOTES FOR ENERGY RECOVERY VENTILATOR, ERV-1.
- E SEE SHEET A/M103 FOR PROPOSED VRF PIPE ROUTING AND THERMOSTAT/DEVICE LOCATIONS.

General Notes

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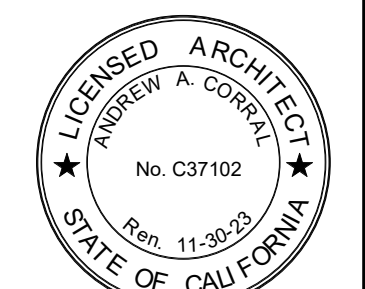
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BUILDING A
MECHANICAL FLOOR PLAN

Drawing

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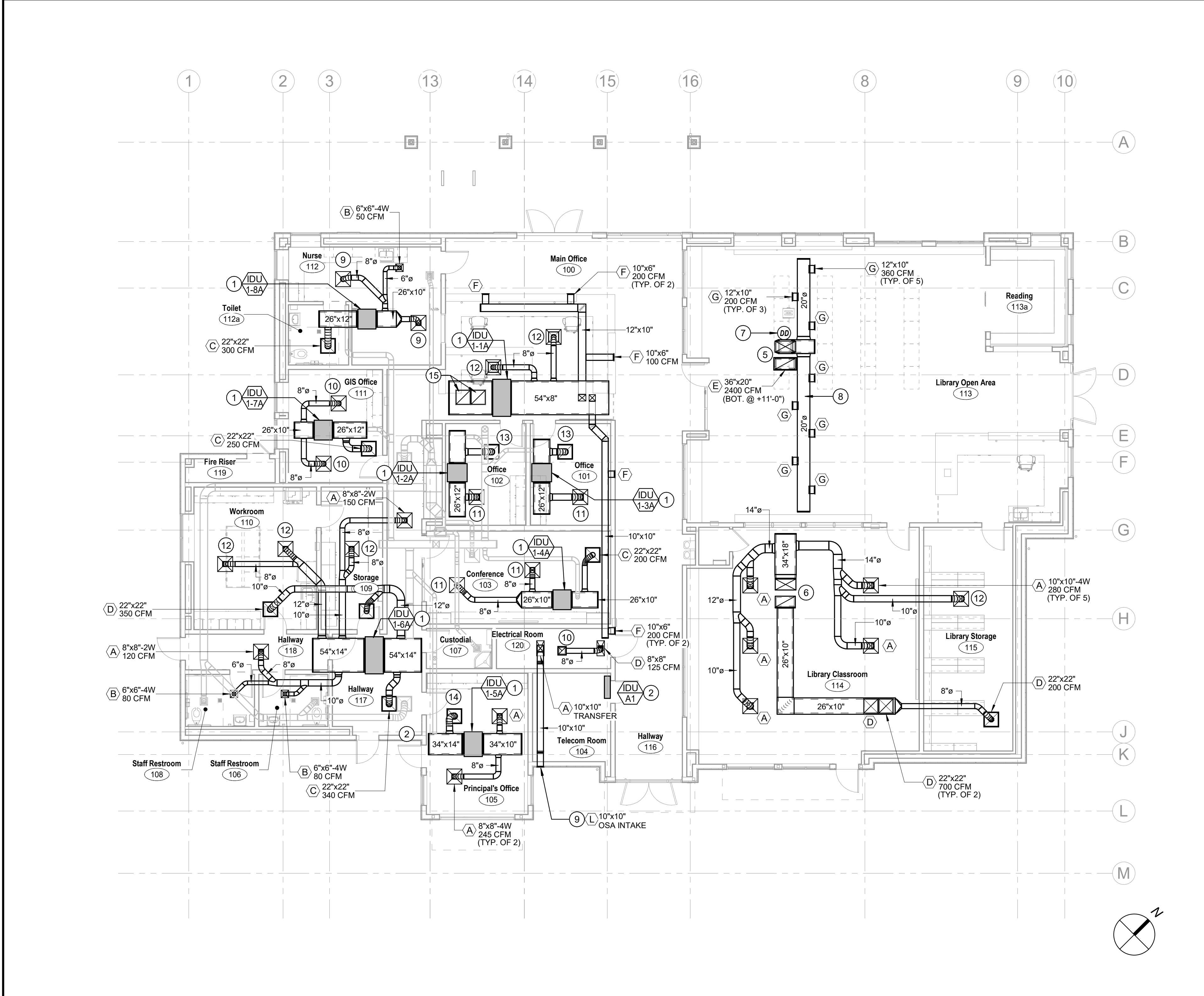
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No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

Designed By:	HB	Copyright	2022 Darden Architects
Scale:	As indicated	Drawn By:	HB
Project Number:	2116	Checked By:	JCS
Date:	02/06/2023	Reviewed By:	HB

A/M101



A8
MECHANICAL FLOOR PLAN
1/8" = 1'-0"

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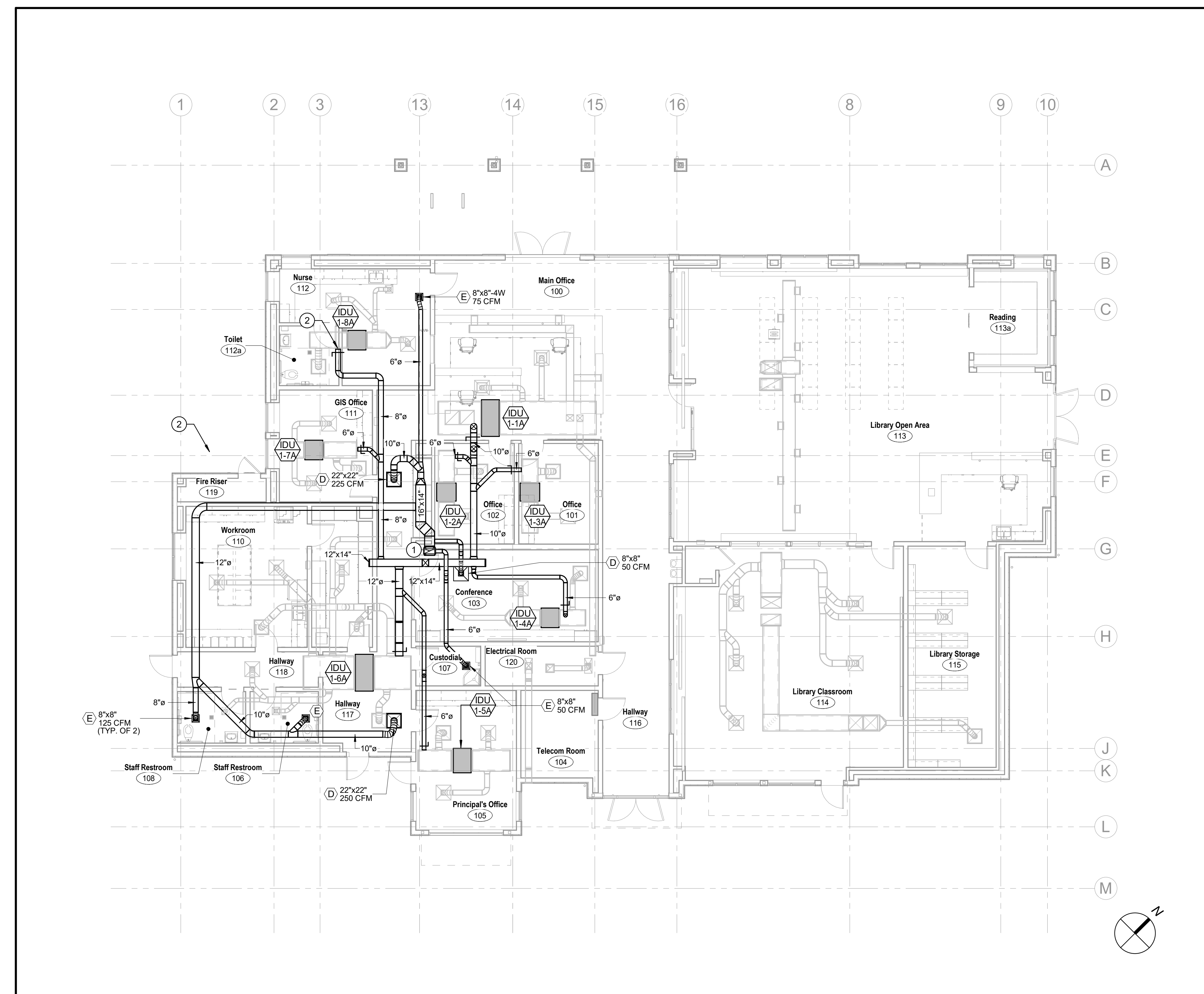
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DSA File

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KEYNOTES #

- 1 12"x10" OSA & 20"x10" EA DOWN THRU ROOF FROM ERV-1. SEE SHEET A/M301 FOR CONTINUATION.
- 2 CONNECT OSA TO RETURN PLENUM OF INDOOR UNIT WITH MANUAL VOLUME DAMPER PER DETAIL N11 ON SHEET X/M801.



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MECHANICAL ERV FLOOR PLAN

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2	Addendum #2	02/24/23

Revision

Designed By:	HB	Copyright	2022 Darden Architects
Scale:	As indicated	Drawn By:	HB
Project Number:	2116	Checked By:	JCS
Date:	02/06/2023	Reviewed By:	HB

A8
MECHANICAL ERV FLOOR PLAN
1/8" = 1'-0"

A/M102

DSA File No.:
DSA File

DSA Application No.:
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KEYNOTES

- 34"x18" SA & 32"x18" RA ACOUSTIC LINED DUCT UP TO PACKAGE UNIT ON ROOF. SEE SHEET B/M301 FOR CONTINUATION.
- SUPPLY AIR DUCT DETECTOR PER DETAIL J1 ON SHEET XM800.
- THERMOSTAT & CO2 SENSOR ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
- 14"x14" ACOUSTIC LINED EA DUCT UP TO EXHAUST FAN ON ROOF. HIGH WALL INDOOR UNIT OVER DOOR PER DETAILS J4 & E4 ON SHEET XM800.
- REFRIGERANT PIPING UP THRU ROOF. SEE SHEET B/M301.
- 14"x14" ACOUSTIC LINED EA DUCT UP TO EXHAUST FAN ON ROOF. TERMINATE DUCT @ 18" BELOW ROOF STRUCTURE WITH 1/2"x1/2" WIRE MESH SCREEN.

GENERAL NOTES

- SEE DETAIL N14 ON SHEET XM800 FOR TYPICAL CEILING GRILLE.
- SEE DETAILS E14 ON SHEET XM800 FOR TYPICAL DUCT SUPPORTS.
- SEE DETAIL J14 ON SHEET XM800 FOR TYPICAL DUCT BRANCH DETAILS.
- SEE DETAIL A14 ON SHEET XM800 FOR TYPICAL REFRIGERANT PIPE SUPPORTS.

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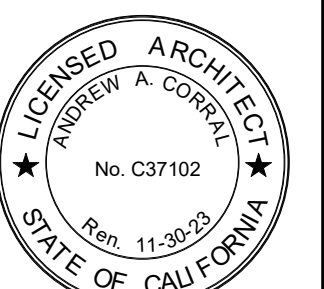
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BUILDING B
MECHANICAL FLOOR PLAN

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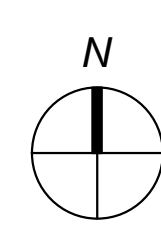
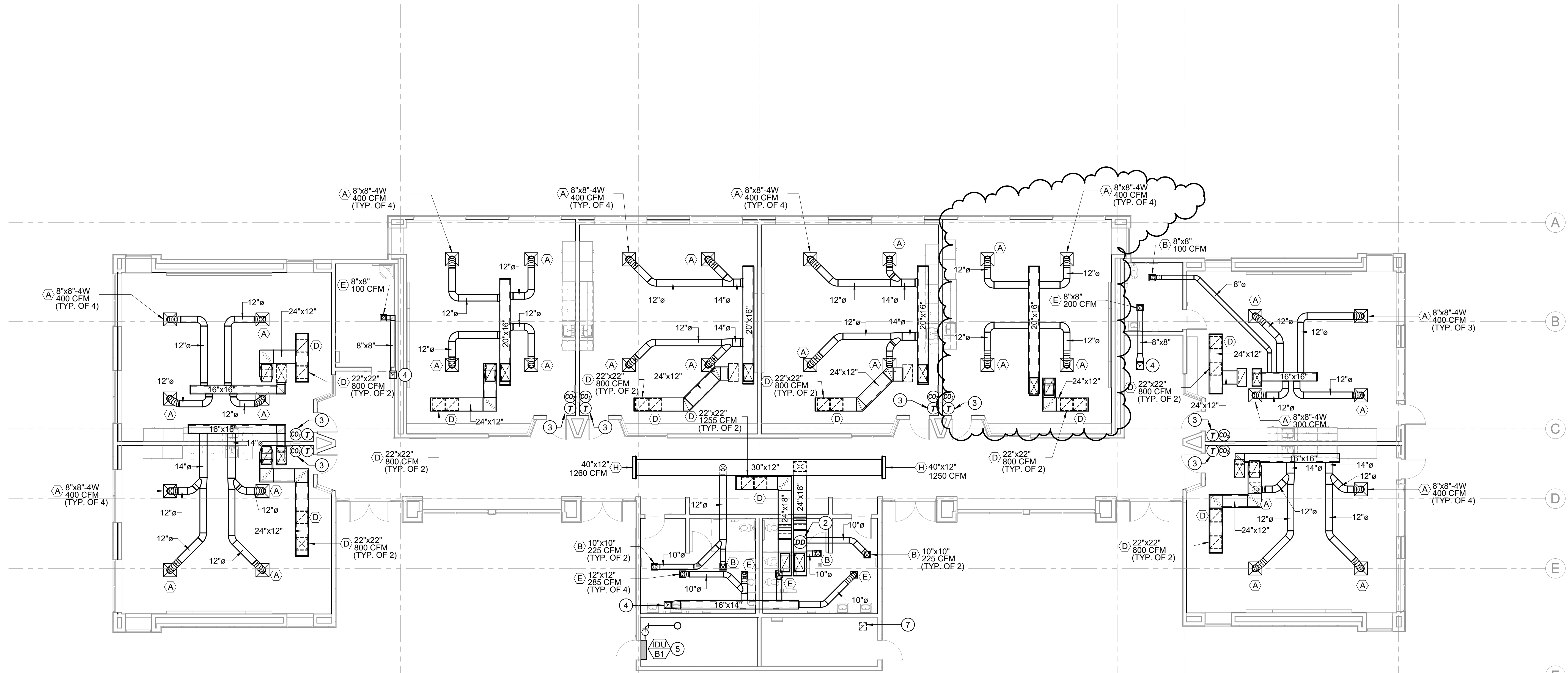
No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

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Project Number: 2116
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Date: 02/06/2023
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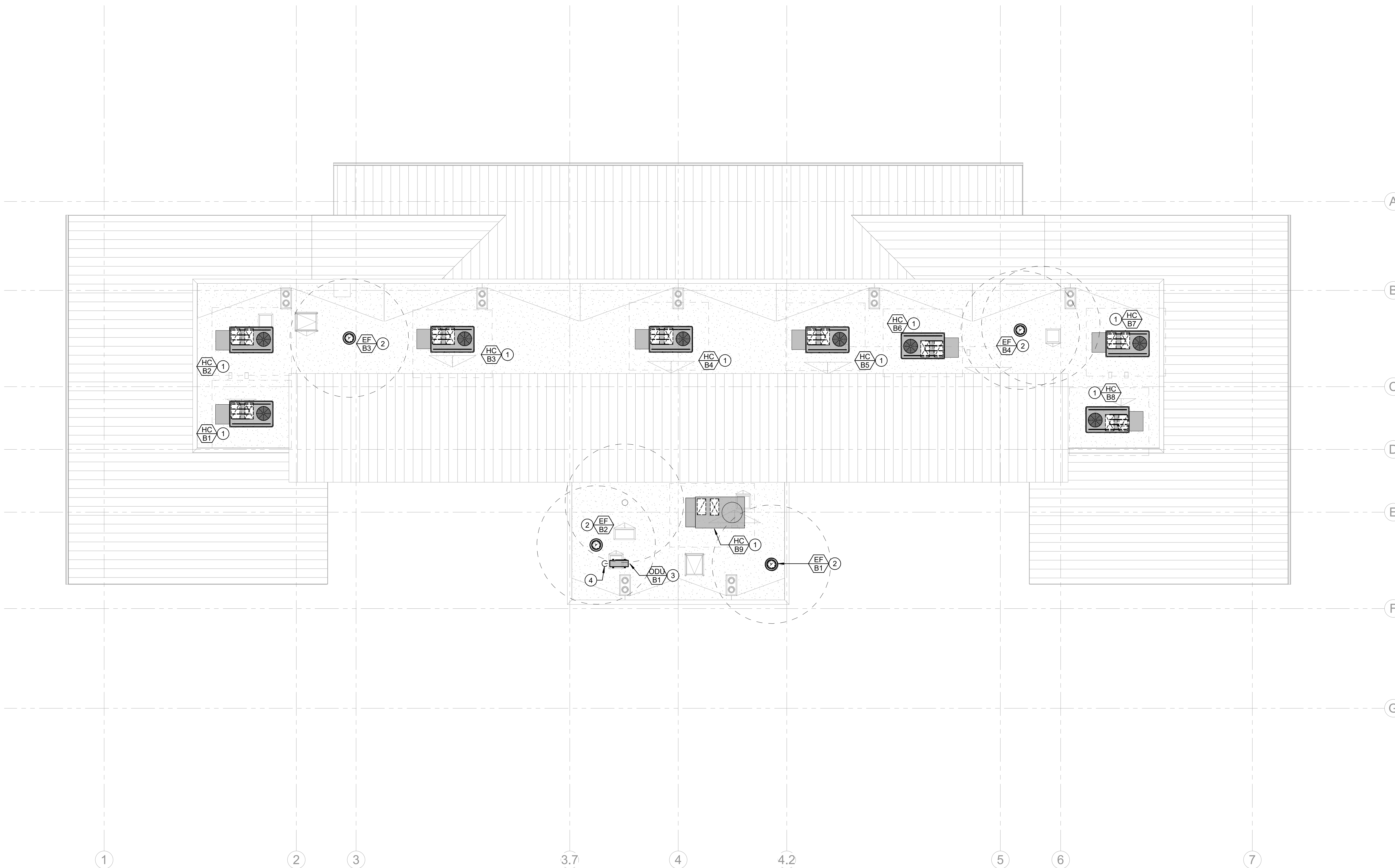
B/M101



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A1
MECHANICAL FLOOR PLAN
1/8" = 1'-0"

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Q
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B
A



DSA File No.:
DSA File

DSA Application No.:
DSA App

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- KEYNOTES** #
- 1 PACKAGE UNIT ON ROOF PER DETAIL E11 ON SHEET XM800.
 - 2 UPBLAST EXHAUST FAN ON ROOF PER DETAIL N7 ON SHEET XM800.
 - 3 SINGLE ZONE OUTDOOR CONDENSING UNIT ON ROOF PER DETAIL J11 ON SHEET XM800.
 - 4 REFRIGERANT PIPING DN THRU ROOF. SEE SHEET BIM101 FOR CONTINUATION. SEE ARCHITECTURAL FOR ROOF PENETRATION.

General Notes

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BUILDING B
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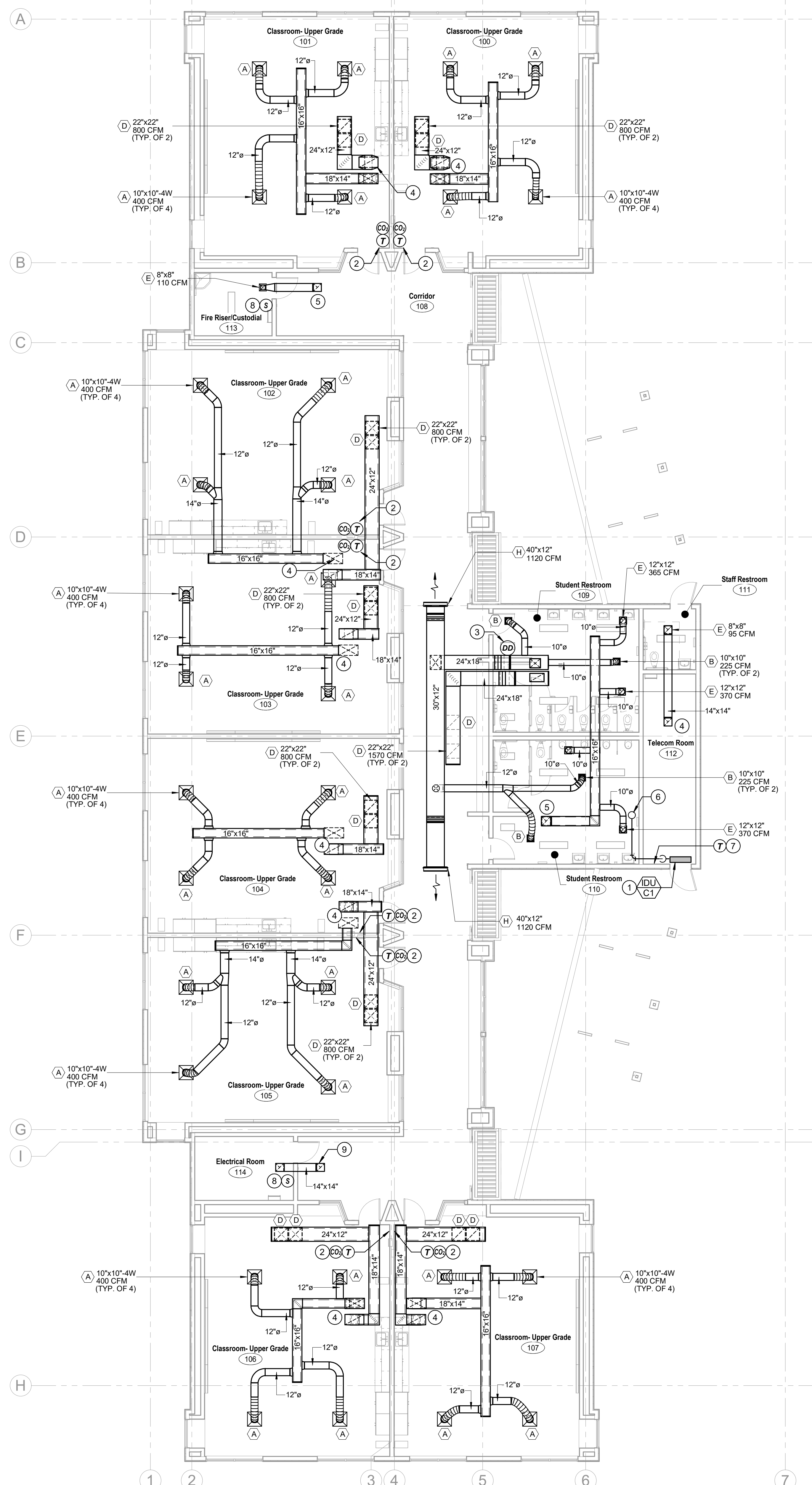
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Project Number: 2116 Checked By: JCS

Date: 02/06/2023 Reviewed By: HB

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2/21/2023 4:49:55 PM



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KEYNOTES #

- 1 HIGH WALL INDOOR UNIT OVER DOOR PER DETAIL J4 ON SHEET XM800.
- 2 THERMOSTAT & CO2 SENSOR ON WALL, MOUNT @ +48" AFF TO TOP OF BOX.
- 3 SUPPLY AIR DUCT DETECTOR PER DETAIL J1 ON SHEET XM800.
- 4 34"x18" SA & 32"x18" RA ACOUSTIC LINED DUCT UP TO PACKAGE UNIT ON ROOF. SEE SHEET CIM301 FOR CONTINUATION.
- 5 14"x14" ACOUSTIC LINED EA DUCT UP TO EXHAUST FAN ON ROOF.
- 6 REFRIGERANT PIPING UP THRU ROOF. SEE SHEET CIM301 FOR CONTINUATION.
- 7 THERMOSTAT ON WALL, MOUNT @ +48" AFF TO TOP OF BOX.
- 8 TEMPERATURE SENSOR ON WALL, MOUNT @ +48" AFF TO TOP OF BOX.
- 9 14"x14" ACOUSTIC LINED EA DUCT UP TO EXHAUST FAN ON ROOF. TERMINATE DUCT AT 18" BELOW ROOF STRUCTURE WITH 12" x12" WIRE MESH SCREEN.

GENERAL NOTES

- A. SEE DETAIL N14 ON XM800 FOR TYPICAL CEILING GRILLE INSTALLATION.
- B. SEE DETAIL J14 ON XM800 FOR TYPICAL BRANCH DUCT INSTALLATION.
- C. SEE DETAIL E14 ON XM800 FOR TYPICAL SUSPENDED DUCT SUPPORTS.
- D. SEE DETAIL A14 ON SHEET XM800 FOR TYPICAL REFRIGERANT PIPE SUPPORTS.

General Notes

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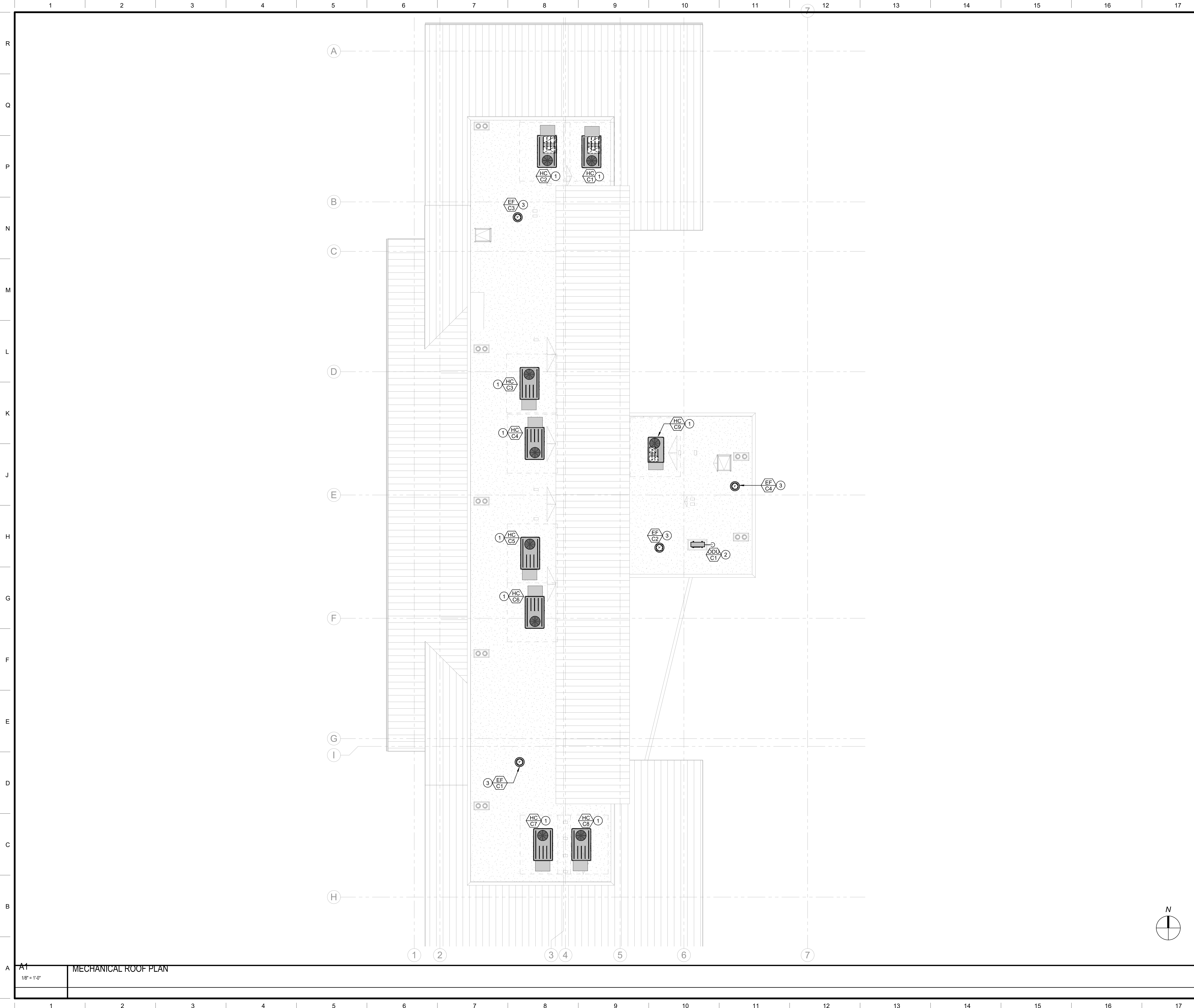
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C/M101

2/24/2023 5:13:33 AM

A1 MECHANICAL FLOOR PLAN



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DSA File

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KEYNOTES #

- 1 PACKAGE GAS/ELECTRIC UNIT ON ROOF PER DETAIL E11 ON XM800.
- 2 SINGLE ZONE OUTDOOR CONDENSING UNIT ON ROOF PER DETAIL J11 ON SHEET XM800.
- 3 UPBLAST EXHAUST FAN ON ROOF PER DETAIL N7 ON SHEET XM800.
- 4 REFRIGERANT PIPING DN THRU ROOF. SEE SHEET CM101 FOR CONTINUATION. SEE ARCHITECTURAL FOR ROOF PENETRATION.

General Notes

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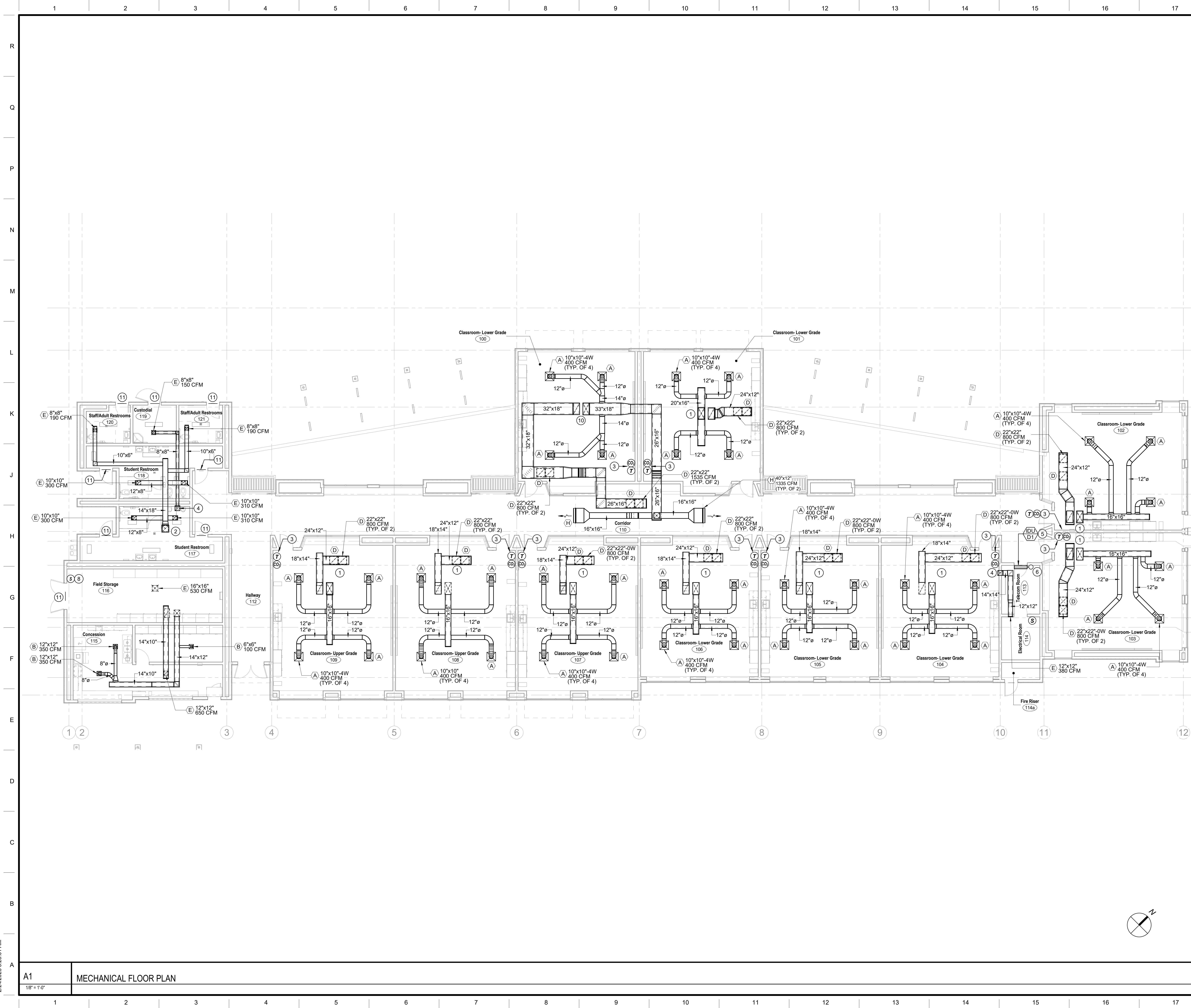
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Drawn By:	HB
Project Number:	2116
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Date:	02/06/2023
Reviewed By:	HB

C/M301

2/24/2023 5:13:37 AM

A1
MECHANICAL ROOF PLAN
1/8" = 1'-0"



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DSA File

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- ### KEYNOTES #
- 34"x18" SA & 32"x18" RA ACOUSTIC LINED DUCT UP TO PACKAGE UNIT ON ROOF. SEE SHEET D/M301 FOR CONTINUATION.
 - 16"x16" ACOUSTIC LINED EA DUCT UP TO EXHAUST FAN ON ROOF.
 - THERMOSTAT & CO2 SENSOR ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
 - 14"x14" ACOUSTIC LINED EA DUCT UP TO EXHAUST FAN ON ROOF.
 - HIGH WALL INDOOR UNIT OVER DOOR PER DETAILS D/M301.
 - REFRIGERANT PIPING UP THRU ROOF. SEE SHEET D/M301.
 - THERMOSTAT ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
 - TEMPERATURE SENSOR ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
 - WALL SWITCH ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
 - 34"x18" SA & 32"x18" RA ACOUSTIC LINED DUCT UP TO PACKAGE UNIT ON ROOF. SEE SHEET D/M301 FOR CONTINUATION.
 - INTAKE LOUVER OVER DOOR PER ARCHITECTURAL.

- ### GENERAL NOTES
- SEE DETAIL N14 ON SHEET X/M800 FOR TYPICAL CEILING GRILLE.
 - SEE DETAILS E14 ON SHEET X/M800 FOR TYPICAL DUCT SUPPORTS.
 - SEE DETAIL J14 ON SHEET X/M800 FOR TYPICAL DUCT BRANCH DETAILS.
 - SEE DETAIL A14 ON SHEET X/M800 FOR TYPICAL REFRIGERANT PIPE SUPPORTS.

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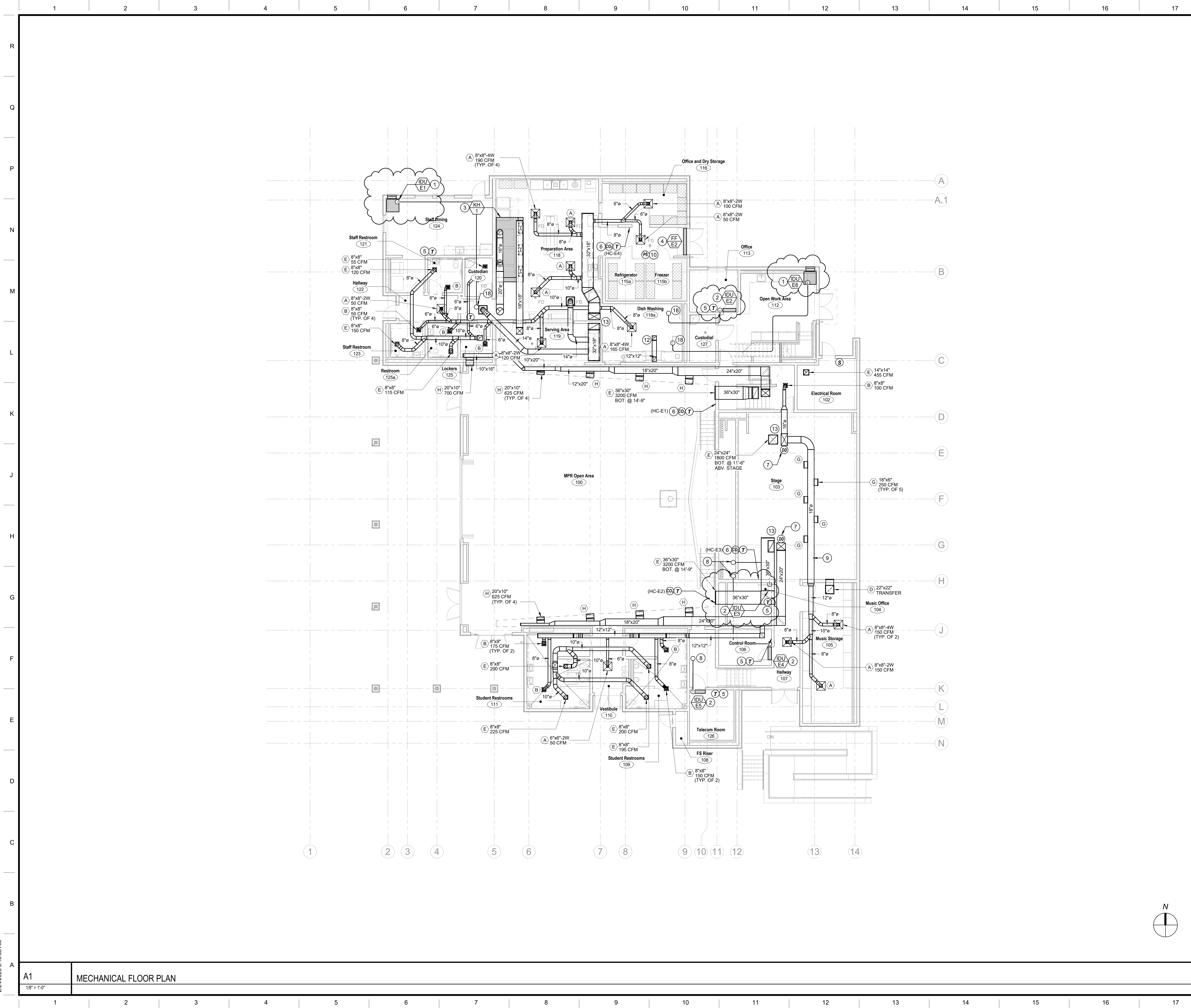
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A1 MECHANICAL FLOOR PLAN

D/M101



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- ### KEYNOTES #
- 1 VERTICAL AIR HANDLER IN CUSTOM CABINET PER DETAIL A11 ON X/M102
 - 2 HIGH WALL INDOOR UNIT OVER DOOR PER DETAILS J7 & N7 ON SHEET X/M800.
 - 3 TYPE I COMMERCIAL KITCHEN HOOD WITH ANSUL R-102 FIRE SUPPRESSION SYSTEM. SEE DETAILS ON SHEET X/M802 FOR ADDITIONAL INFORMATION.
 - 4 FLY FAN OVER DOOR PER DETAIL E14 ON SHEET X/M801.
 - 5 THERMOSTAT ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
 - 6 THERMOSTAT AND CO2 SENSOR ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
 - 7 DUCT DETECTOR ON SUPPLY DUCT PER DETAIL J1 ON SHEET X/M800.
 - 8 REFRIGERANT PIPING UP THRU ROOF SEE SHEET E/M301 FOR CONTINUATION.
 - 9 EXPOSED SPIRAL DUCT W/ DUCT-MOUNTED GRILLES. SEE DETAIL A11 ON SHEET X/M800 FOR INSTALLATION. BOTTOM OF DUCT AT 10'-6" ABOVE PLATFORM.
 - 10 REMOVE PULL STATION ON WALL FOR ANSUL R-102 FIRE SUPPRESSION SYSTEM. MOUNT ON WALL @ +48" AFF MAX.
 - 11 12"x12" EA DUCT UP THRU ROOF. SEE SHEET E/M301 FOR CONTINUATION.
 - 12 STAINLESS STEEL EXHAUST DUCT CONNECTIONS TO DISHWASHER INLET & OUTLET HOODS. DUCTWORK SHALL BE TYPE 304 STAINLESS STEEL W/ #3 POLISH WHERE EXPOSED AND #20 FINISH WHERE CONCEALED.
 - 13 18"x34" SA & 18"x32" RA THRU ROOF TO PACKAGE UNIT. SEE SHEET E/M301 FOR CONTINUATION.

- ### GENERAL NOTES
- A. SEE DETAIL X ON SHEET X/M800 FOR TYPICAL CEILING GRILLE.
 - B. SEE DETAILS X & X ON SHEET X/M800 FOR TYPICAL DUCT SUPPORTS.
 - C. SEE DETAIL X ON SHEET X/M800 FOR TYPICAL DUCT BRANCH DETAILS.
 - D. SEE DETAIL X ON SHEET X/M800 FOR TYPICAL REFRIGERANT PIPE SUPPORTS.
 - E. DISHWASHER EXHAUST DUCT SHALL SLOPE TOWARDS HOOD NOT LESS THAN 2%.
 - F. KITCHEN HOOD EXHAUST DUCT SHALL SLOPE TOWARDS HOOD NOT LESS THAN 2%.

General Notes

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REGISTERED PROFESSIONAL ENGINEER
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MECHANICAL
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Consultant

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BUILDING E
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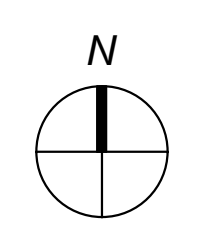
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LICENSED ARCHITECT
ANDREW A. CORBETT
No. C37102
Exp. 11-30-23
STATE OF CALIFORNIA

Architect

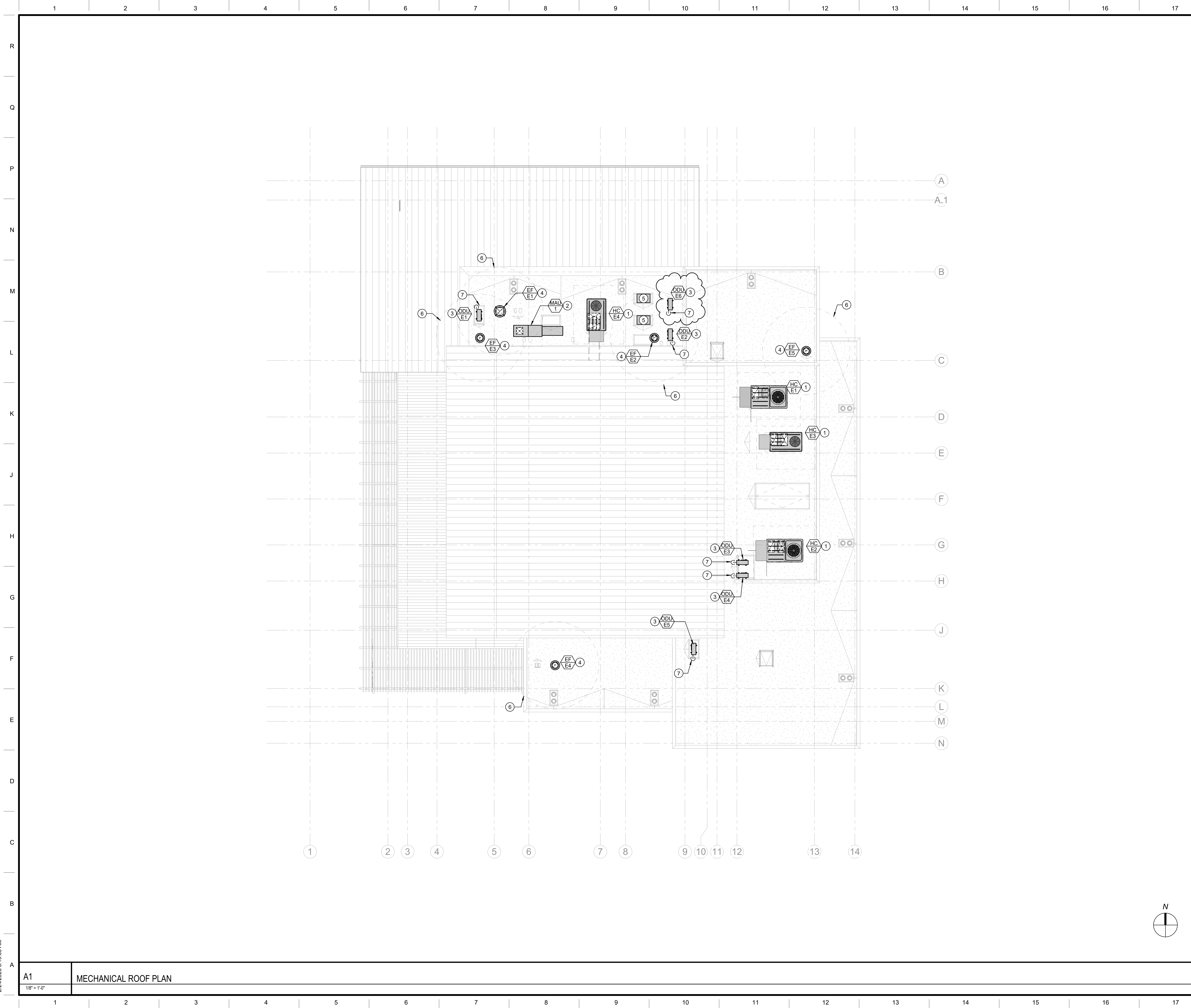
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A1 MECHANICAL FLOOR PLAN

E/M101

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KEYNOTES #

- 1 PACKAGE UNIT ON ROOF PER DETAIL E11 ON SHEET X/M800.
- 2 MAKE-UP AIR UNIT ON ROOF PER DETAIL E11 ON SHEET X/M800.
- 3 SINGLE ZONE OUTDOOR CONDENSING UNIT ON ROOF PER DETAIL J11 ON SHEET X/M800.
- 4 UPBLAST EXHAUST FAN ON ROOF PER DETAIL N7 ON SHEET X/M800.
- 5 COLD BOX CONDENSING UNIT ON ROOF.
- 6 MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
- 7 REFRIGERANT PIPING DN THRU ROOF. SEE SHEET E/M101 FOR CONTINUATION. SEE ARCHITECTURAL FOR ROOF PENETRATION.

General Notes

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Revision

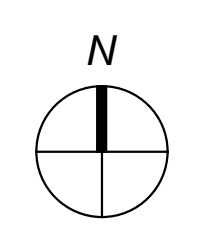
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



A1 **MECHANICAL ROOF PLAN**

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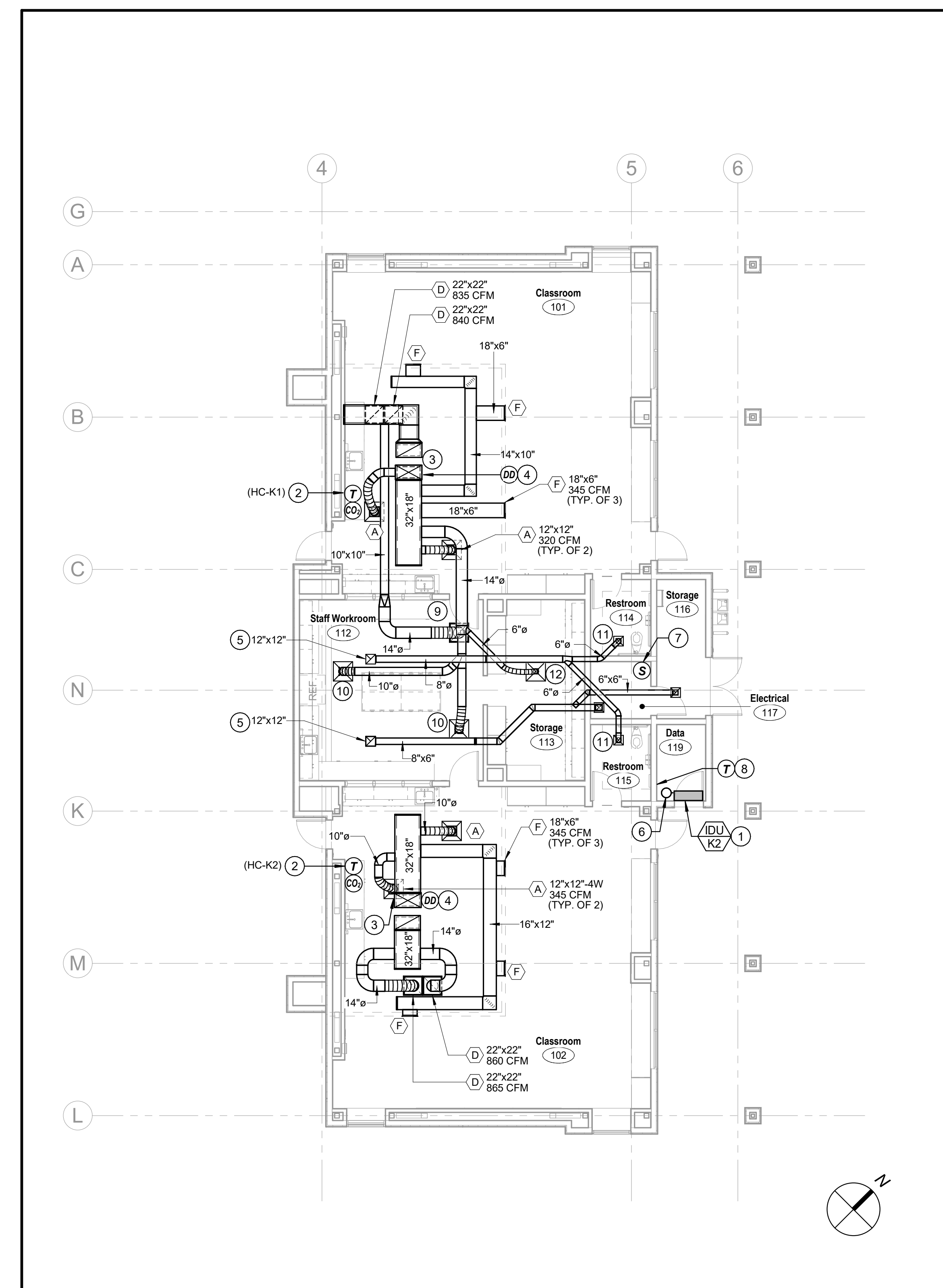
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KEYNOTES #

- 1 HIGH WALL INDOOR UNIT OVER DOOR. SEE DETAILS J4 & E4 ON X/M800 FOR INSTALLATION.
- 2 THERMOSTAT & CO2 SENSOR ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
- 3 34"x18" SA & 32"x18" RA ACOUSTIC LINED DUCTS UP THRU ROOF TO PACKAGE UNIT. SEE SHEET K1/M301 FOR CONTINUATION.
- 4 SUPPLY DUCT SMOKE DETECTOR FOR UNIT SHUTDOWN PER DETAIL J1 ON X/M800.
- 5 12"x12" EA DUCT DN THRU ROOF FROM EXHAUST FAN. SEE SHEET K1/M301 FOR CONTINUATION.
- 6 REFRIGERANT PIPING UP THRU ROOF. SEE K1/M301 FOR CONTINUATION.
- 7 SENSOR ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
- 8 THERMOSTAT ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
- 9  22"x22" 500 CFM
- 10  10"x10"-4W 275 CFM
- 11  6"x6" 95 CFM
- 12  6"x6"-4W 100 CFM

GENERAL NOTES

- A. SEE DETAIL N14 ON X/M800 FOR TYPICAL CEILING GRILLE INSTALLATION.
- B. SEE DETAIL J14 ON X/M800 FOR TYPICAL BRANCH DUCT INSTALLATION.
- C. SEE DETAIL E14 ON X/M800 FOR TYPICAL SUSPENDED DUCT SUPPORTS.
- D. SEE DETAILS K14 & N11 ON SHEET X/M800 FOR REFRIGERANT PIPING SUPPORTS.



General Notes

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BUILDING K1
MECHANICAL FLOOR PLAN

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A12	MECHANICAL FLOOR PLAN	K1/M101
1/8" = 1'-0"		

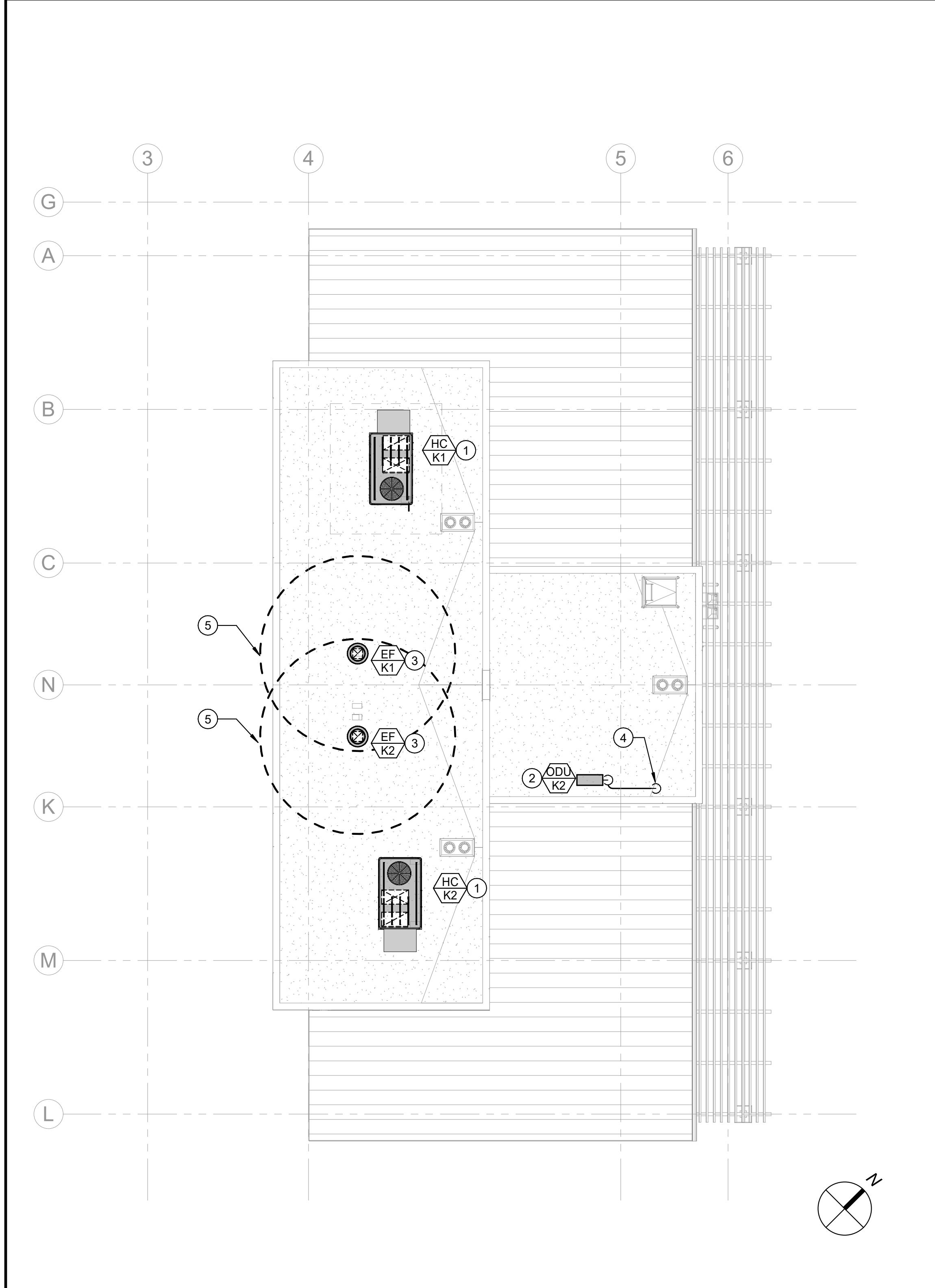
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KEYNOTES #

- 1 PACKAGE GAS/ELECTRIC UNIT ON ROOF PER DETAIL E11 ON X/M800
- 2 SINGLE ZONE OUTDOOR CONDENSING UNIT ON ROOF PER DETAIL J11 ON X/M800.
- 3 UPBLAST EXHAUST FAN ON ROOF PER DETAIL N7 ON X/M800
- 4 REFRIGERANT PIPING DN THRU ROOF. SEE K1/M101 FOR CONTINUATION.
- 5 16'-0" CLEARANCE FROM FRESH AIR INTAKES.



General Notes

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BUILDING K1
MECHANICAL ROOF PLAN

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A12 MECHANICAL ROOF PLAN
1/8" = 1'-0"





K1/M301

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DSA File

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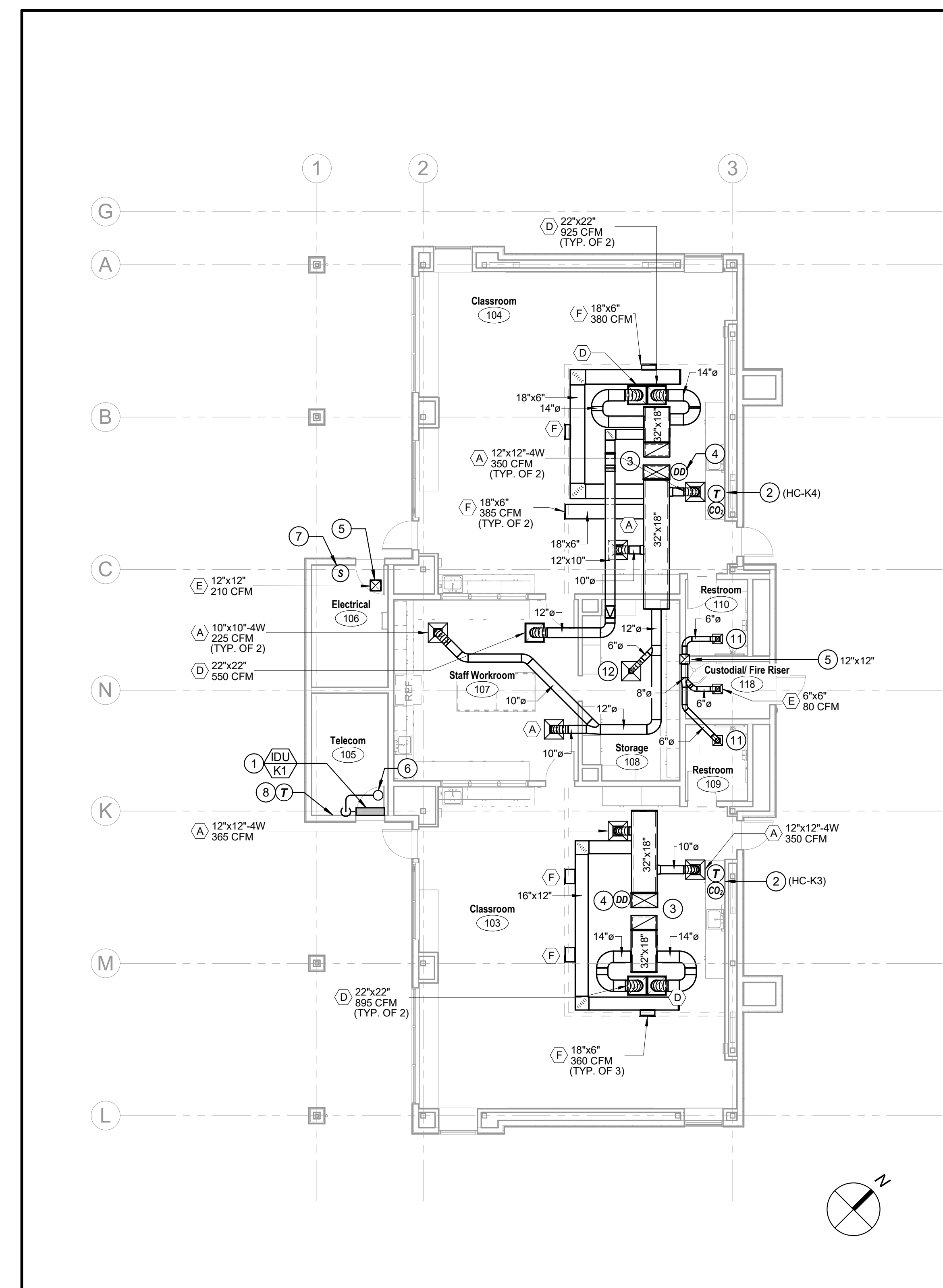
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KEYNOTES #


- 1 HIGH WALL INDOOR UNIT OVER DOOR. SEE DETAILS J4 & E4 ON X/M800 FOR INSTALLATION.
- 2 THERMOSTAT & CO2 SENSOR ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
- 3 34"x18" SA & 32"x18" RA ACOUSTIC LINED DUCTS UP THRU ROOF TO PACKAGE UNIT. SEE SHEET K2/M301 FOR CONTINUATION.
- 4 SUPPLY DUCT SMOKE DETECTOR FOR UNIT SHUTDOWN PER DETAIL J1 ON X/M800.
- 5 12"x12" EA DUCT DN THRU ROOF FROM EXHAUST FAN. SEE SHEET K2/M301 FOR CONTINUATION.
- 6 REFRIGERANT PIPING UP THRU ROOF. SEE K2/M301 FOR CONTINUATION.
- 7 SENSOR ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
- 8 THERMOSTAT ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
- 9  22"x22" 500 CFM
- 10  10"x10"-4W 275 CFM
- 11  6"x6" 95 CFM
- 12  6"x6"-4W 100 CFM

GENERAL NOTES

- A. SEE DETAIL N14 ON X/M800 FOR TYPICAL CEILING GRILLE INSTALLATION.
- B. SEE DETAIL J14 ON X/M800 FOR TYPICAL BRANCH DUCT INSTALLATION.
- C. SEE DETAIL E14 ON X/M800 FOR TYPICAL SUSPENDED DUCT SUPPORTS.
- D. SEE DETAILS A14 & N11 ON SHEET X/M800 FOR REFRIGERANT PIPING SUPPORTS.




General Notes



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BUILDING K2
MECHANICAL FLOOR PLAN

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A12	MECHANICAL FLOOR PLAN	K2/M101
1/8" = 1'-0"		

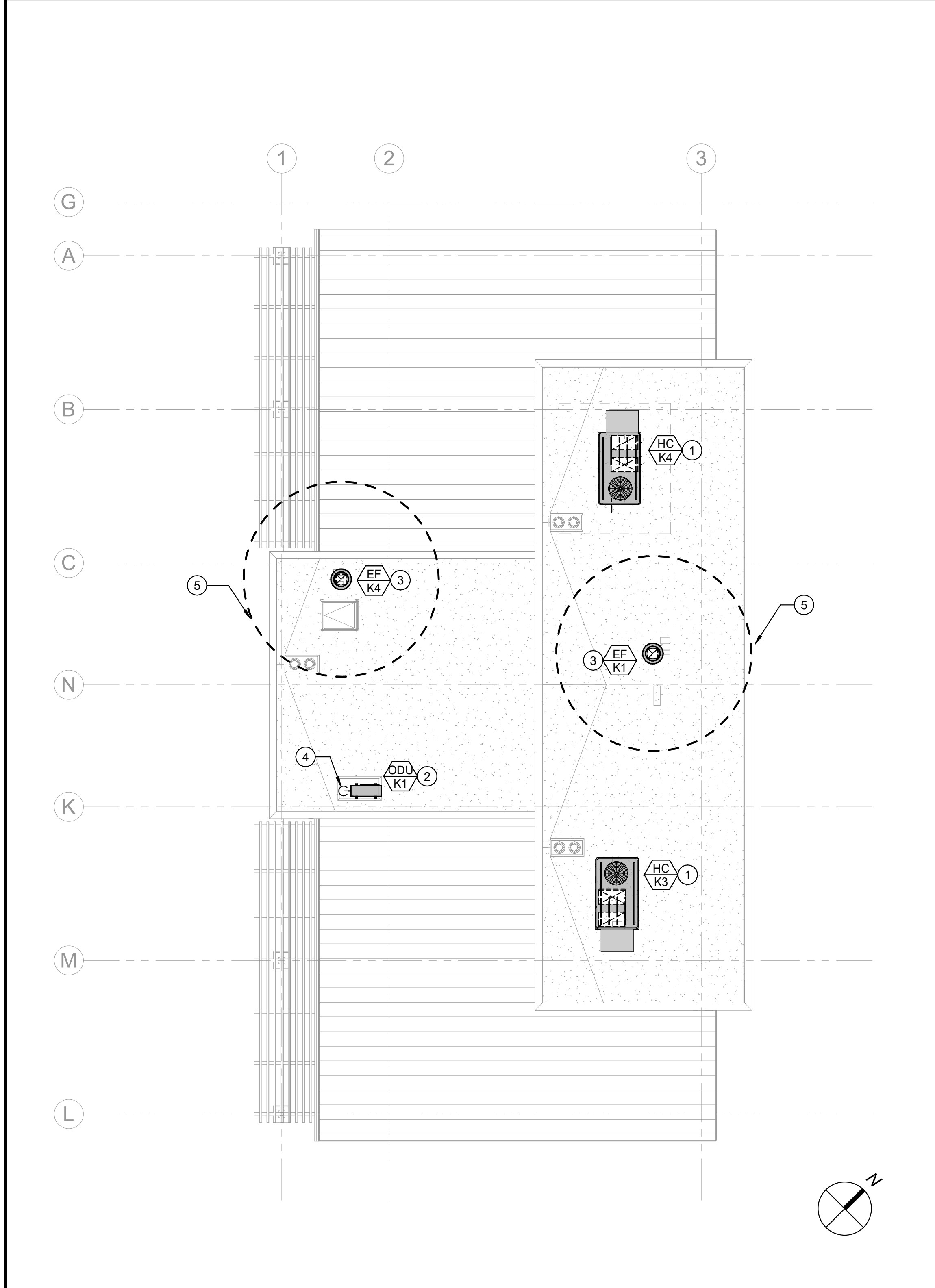
DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

KEYNOTES #

- 1 PACKAGE GAS/ELECTRIC UNIT ON ROOF PER DETAIL E11 ON X/M800
- 2 SINGLE ZONE OUTDOOR CONDENSING UNIT ON ROOF PER DETAIL J11 ON X/M800.
- 3 UPBLAST EXHAUST FAN ON ROOF PER DETAIL N7 ON X/M800
- 4 REFRIGERANT PIPING DN THRU ROOF. SEE K2M101 FOR CONTINUATION.
- 5 10'-0" CLEARANCE FROM FRESH AIR INTAKES.



General Notes

NET POSITIVE
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engineers

www.NPCeng.com
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Consultant

McKinley / Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING K2
MECHANICAL ROOF PLAN

Drawing

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PLANNING
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Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

Designed By:	HB	Copyright	2022	Darden Architects
Scale:	As indicated	Drawn By:	HB	K2/M301
Project Number:	2116	Checked By:	JCS	
Date:	02/06/2023	Reviewed By:	HB	

A12
MECHANICAL ROOF PLAN

1/8" = 1'-0"

MECHANICAL SCHEDULES

PACKAGE AIR CONDITIONING SCHEDULE (BUILDING A)

DESIGNATION	HC-A1	HC-A2
VOLTS / PHASE	480 / 3	480 / 3
F.L.A.		
MCA / MOCAP (AMPS)	18 / 20	14 / 20
EER / SEER @ ARI	11 / 14.6	13 / 17.5
SUPPLY AIR (CFM)	2,400	1,400
EXT. SP (IN. WC)	1.0	1.0
DCV MIN. O.S.A. (CFM)	260	125
MAX. O.S.A. (CFM)	1,420	725
HP / BHP	2.75 / 0.96	1 / 0.64
RPM	1,116	974
DRIVE	DIRECT	DIRECT
NOMINAL TONS	6.0	4.0
SENSIBLE (MBH)	56.4	37.3
TOTAL (MBH)	64.3	43.9
REFRIGERANT TYPE	R-410A	R-410A
EADB / EAWB (°F)	79.5 / 64.3	83.4 / 65.4
AMBIENT AIR (°F)	105	105
INPUT CAP. (MBH)	80.0	60.0
OUTPUT CAP. (MBH)	64.8	48.6
FUEL	NATURAL GAS	NATURAL GAS
AFUE (%)	81	81
QTY / SIZE	4 / 20"x25"x2"	4 / 16"x25"x2"
TYPE	MERV-13	MERV-13
MANUFACTURER	TRANE	TRANE
TYPE	GAS/ELEC	GAS/ELEC
MODEL NUMBER	YHC074	YHC047
SERVICE	LIBRARY 112E, STORAGE 112G	LIBRARY CLASSROOM 112F
*OPER. WT (LBS)	1,319	1,072
ACCESSORIES	1,3,4,5,6,7,8	2,3,4,5,6,7,8

*OPERATING WEIGHT INCLUDES BASE UNIT AND ACCESSORIES. CURB BY OTHERS.
1. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST, MICROMETL #PEC-PRCCB-DYDB-4LR OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST, MICROMETL #PEC-PRCCB-DYDB-4LR OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1.2 HP, 1.5 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. 2019 CEC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.
4. CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
5. STAINLESS STEEL GAS HEAT EXCHANGER.
6. HAIL GUARDS.
7. FACTORY-INSTALLED PHASE MONITOR.
8. SUPPLY DUCT SMOKE DETECTOR, (SYSTEM SENSOR D4120) PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.

PACKAGE AIR CONDITIONING SCHEDULE (BUILDING B)

DESIGNATION	HC-B1	HC-B2	HC-B3	HC-B4	HC-B5	HC-B6	HC-B7	HC-B8	HC-B9
VOLTS / PHASE	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3
F.L.A.									
MCA / MOCAP (AMPS)	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	21 / 25
EER / SEER @ ARI	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	12.1 / 16.6
SUPPLY AIR (CFM)	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	3,540
EXT. SP (IN. WC)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
DCV MIN. O.S.A. (CFM)	110	110	110	110	110	110	115	110	170
MAX. O.S.A. (CFM)	470	470	470	465	465	470	485	470	490
HP / BHP	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	3.1 / 1.976
RPM	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,424
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
NOMINAL TONS	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	7.5
SENSIBLE (MBH)	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	74.66
TOTAL (MBH)	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	79.36
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
EADB / EAWB (°F)	83.7 / 65.5	83.7 / 65.5	83.7 / 65.5	83.7 / 65.5	83.7 / 65.5	83.7 / 65.5	83.7 / 65.5	83.7 / 65.5	81.6 / 64.9
AMBIENT AIR (°F)	105	105	105	105	105	105	105	105	105
INPUT CAP. (MBH)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	120.0
OUTPUT CAP. (MBH)	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	97.20
FUEL	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
AFUE (%)	81	81	81	81	81	81	81	81	81
QTY / SIZE	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	2 / 18"x24"x2" 3 / 24"x16"x2"
TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
TYPE	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC
MODEL NUMBER	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHJ090
SERVICE	LOWER GRADE CLASSROOM 100	LOWER GRADE CLASSROOM 101	LOWER GRADE CLASSROOM 102	LOWER GRADE CLASSROOM 103	LOWER GRADE CLASSROOM 104	LOWER GRADE CLASSROOM 105	LOWER GRADE CLASSROOM 106	LOWER GRADE CLASSROOM 107	CORRIDOR, RESTROOMS 404-405
*OPER. WT (LBS)	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,385
ACCESSORIES	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	2,3,4,5,6,7,8

*OPERATING WEIGHT INCLUDES BASE UNIT AND ACCESSORIES. CURB BY OTHERS.
1. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST, MICROMETL #PEC-PRCCB-DYDB-4LR OR APPROVED EQUAL.
2. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST, MICROMETL #PEC-PR2BCCA-DT0B-4L2 OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1/2 HP, 1.5 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. 2019 CEC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.
4. CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
5. STAINLESS STEEL GAS HEAT EXCHANGER.
6. HAIL GUARDS.
7. FACTORY-INSTALLED PHASE MONITOR.
8. SUPPLY DUCT SMOKE DETECTOR, (SYSTEM SENSOR D4120) PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.

PACKAGE AIR CONDITIONING SCHEDULE (BUILDING C)

DESIGNATION	HC-C1	HC-C2	HC-C3	HC-C4	HC-C5	HC-C6	HC-C7	HC-C8	HC-C9
VOLTS / PHASE	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3
F.L.A.									
MCA / MOCAP (AMPS)	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	21 / 25
EER / SEER @ ARI	13.0 / 17.5	13.0 / 17.5	13.0 / 17.5	13.0 / 17.5	13.0 / 17.5	13.0 / 17.5	13.0 / 17.5	13.0 / 17.5	12.1 / 16.6
SUPPLY AIR (CFM)	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	3,140
EXT. SP (IN. WC)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1
DCV MIN. O.S.A. (CFM)	130	130	130	130	130	130	130	130	190
MAX. O.S.A. (CFM)	530	530	530	530	530	530	530	530	500
HP / BHP	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	1 / 0.74	3.1 / 1.325
RPM	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,245
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
NOMINAL TONS	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	7.5
SENSIBLE (MBH)	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	71.11
TOTAL (MBH)	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	79.22
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
EADB / EAWB (°F)	84.9 / 65.8	84.9 / 65.8	84.9 / 65.8	84.9 / 65.8	84.9 / 65.8	84.9 / 65.8	84.9 / 65.8	84.9 / 65.8	80.7 / 64.6
AMBIENT AIR (°F)	105	105	105	105	105	105	105	105	105
INPUT CAP. (MBH)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	120.0
OUTPUT CAP. (MBH)	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	97.2
FUEL	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
AFUE (%)	81	81	81	81	81	81	81	81	81
QTY / SIZE	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	2 / 18"x24"x2" 3 / 24"x16"x2"
TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
TYPE	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC
MODEL NUMBER	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHJ090
SERVICE	UPPER GRADE CLASSROOM 100	UPPER GRADE CLASSROOM 101	UPPER GRADE CLASSROOM 102	UPPER GRADE CLASSROOM 103	UPPER GRADE CLASSROOM 104	UPPER GRADE CLASSROOM 105	UPPER GRADE CLASSROOM 106	UPPER GRADE CLASSROOM 107	CORRIDOR, RESTROOMS 109-110
*OPER. WT (LBS)	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,294
ACCESSORIES	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	2,3,4,5,6,7,8

*OPERATING WEIGHT INCLUDES BASE UNIT AND ACCESSORIES. CURB BY OTHERS.
1. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST, MICROMETL #PEC-PRCCB-DYDB-4LR OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1/2 HP, 1.5 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST, MICROMETL #PEC-PR2BCCA-DT0B-4L2 OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 2 HP, 4.5 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. 2019 CEC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.
4. CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
5. STAINLESS STEEL GAS HEAT EXCHANGER.
6. HAIL GUARDS.
7. FACTORY-INSTALLED PHASE MONITOR.
8. SUPPLY DUCT SMOKE DETECTOR, (SYSTEM SENSOR D4120) PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.

PACKAGE AIR CONDITIONING SCHEDULE (BUILDING D)

DESIGNATION	HC-D1	HC-D2	HC-D3	HC-D4	HC-D5	HC-D6	HC-D7	HC-D8	HC-D9	HC-D10	HC-D11
VOLTS / PHASE	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3	480 / 3
F.L.A.											
MCA / MOCAP (AMPS)	29 / 40	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	14 / 20	12 / 15
EER / SEER @ ARI	11.4 / 15.1	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5	13 / 17.5
SUPPLY AIR (CFM)	4,270	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,200
EXT. SP (IN. WC)	1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MIN. O.S.A. (CFM)	338	125	125	125	125	125	125	125	125	125	250
DCV MAX. O.S.A. (CFM)	620	505	505	505	505	505	505	505	505	505	845
HP / BHP	3.1 / 2.87	1 / 0.67	1 / 0.67	1 / 0.67	1 / 0.67	1 / 0.67	1 / 0.67	1 / 0.67	1 / 0.67	1 / 0.67	1 / 0.67
RPM	1,618	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
NOMINAL TONS	10.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
SENSIBLE (MBH)	97.65	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	23.6
TOTAL (MBH)	104.56	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	31.9
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
EADB / EAWB (°F)	83.1 / 65.3	84.0 / 65.5	84.0 / 65.5	84.0 / 65.5	84.0 / 65.5	84.0 / 65.5	84.0 / 65.5	84.0 / 65.5	84.0 / 65.5	84.0 / 65.5	84.0 / 65.5
AMBIENT AIR (°F)	105	105	105	105	105	105	105	105	105	105	105
INPUT CAP. (MBH)	150.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.0
OUTPUT CAP. (MBH)	121.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	45.0
FUEL	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
AFUE (%)	81	81	81	81	81	81	81	81	81	81	81
QTY / SIZE	2 / 18"x24"x2" 3 / 24"x16"x2"	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	4 / 16x25x2	2 / 20x30x2
TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
TYPE	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC
MODEL NUMBER	YHJ120	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHC047	YHC037
SERVICE	CORRIDOR & LOWER GRADE CLASSROOM 100	LOWER GRADE CLASSROOM 101	LOWER GRADE CLASSROOM 102	LOWER GRADE CLASSROOM 103	LOWER GRADE CLASSROOM 104	LOWER GRADE CLASSROOM 105	LOWER GRADE CLASSROOM 106	UPPER GRADE CLASSROOM 107	UPPER GRADE CLASSROOM 108	UPPER GRADE CLASSROOM 109	CONCESSIONS 115
*OPER. WT (LBS)	1,426	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	692
ACCESSORIES	2,3,4,5,6,7,8	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	1,3,4,5,6,7	3,4,9

*OPERATING WEIGHT INCLUDES BASE UNIT AND ACCESSORIES. CURB BY OTHERS.
1. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST, MICROMETL #PEC-PR2BCCA-DT0B-4L2 OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1/2 HP, 1.5 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2.

MECHANICAL SCHEDULES

SINGLE ZONE OUTDOOR UNIT SCHEDULE

Table with columns: DESIGNATION, ODU-A1, ODU-B1, ODU-C1, ODU-D1, ODU-E1, ODU-E2, ODU-E3, ODU-E4, ODU-E5, ODU-E6, ODU-K2, K2. Rows include NAMEPLATE AMPS, VOLTS / PHASE, MCA / MOCP, EER / SEER, COOLING CAP. (MBH), HEATING CAP. (MBH), AMBIENT (°F), MANUFACTURER, TYPE, MODEL NUMBER, BUILDING, OPER. WT. (LBS), ACCESSORIES.

SINGLE ZONE INDOOR UNIT SCHEDULE

Table with columns: DESIGNATION, IDU-A1, IDU-B1, IDU-C1, IDU-D1, IDU-E1, IDU-E2, IDU-E3, IDU-E4, IDU-E5, IDU-E6, IDU-K1, K2. Rows include SUPPLY AIR (CFM), EXT. SP (IN. WC), MIN. O.S.A. (CFM), VOLTS / PHASE, MCA / MOCP, DRIVE, SENSIBLE (MBH), TOTAL (MBH), EADB / EAWB (°F), CAP. (MBH) @ 25°F, KW STAGES, QUANTITY / SIZE, TYPE, PD (IN. WC), MANUFACTURER, TYPE, MODEL NUMBER, LOCATION, BUILDING, CONNECTED ODU, OPER. WT. (LBS), ACCESSORIES.

- 1. WIRED WALL MOUNTED THERMOSTAT.
2. EXTERNAL CONDENSATE PUMP. (BLUE DIAMOND MINI CONDENSATE PUMP W/ RESERVOIR & SENSOR MODEL #X87-721)
3. IDU POWERED THRU ODU.
4. INTERNAL CONDENSATE LIFT MECHANISM.

VRF INDOOR UNIT SCHEDULE

Table with columns: DESIGNATION, IDU 1-1A, IDU 1-2A, IDU 1-3A, IDU 1-4A, IDU 1-5A, IDU 1-6A, IDU 1-7A, IDU 1-8A. Rows include SUPPLY AIR (CFM), EXT. SP (IN. WC), MIN. O.S.A. (CFM), VOLTS / PHASE, MCA / MOCP, DRIVE, SENSIBLE (MBH), TOTAL (MBH), REFRIGERANT TYPE, EADB / EAWB (°F), CAP. (MBH) @ 25°F, TYPE, EFFICIENCY, MANUFACTURER, TYPE, MODEL NUMBER, LOCATION/SERVICE, CONNECTED ODU, OPER. WT. (LBS), ACCESSORIES.

- 1. WIRED WALL-MOUNTED THERMOSTAT.
2. FIELD-INSTALLED FACTORY APPROVED CONDENSATE PUMP.
3. OUTSIDE AIR PROVIDED BY ENERGY RECOVERY VENTILATOR, ERV-1.
4. MERV-13 FILTER PROVIDED AT RETURN GRILLE. MARK C. SEE GRILLE SCHEDULE FOR ADDITIONAL INFORMATION.
5. MANUFACTURER'S DRAIN PAN LEVEL SENSOR/CONTROL. SENSOR POWERED BY INDOOR UNIT.
6. INSULATED BALL VALVES ON ALL REFRIGERANT PIPE CONNECTIONS.
NOTE FROM MANUFACTURER: COORDINATE FINAL PIPE LENGTHS WITH UNIT MANUFACTURER PRIOR TO INSTALLATION; PIPE SIZES MAY VARY.

VRF OUTDOOR UNIT SCHEDULE

Table with columns: DESIGNATION, ODU 1-1. Rows include VOLTS / PHASE, MCA / MOCP, EER / SEER, COP @ 47°F, NOM. COOLING CAP. (MBH), NOM. HEATING CAP. (MBH), AMBIENT (°F), MANUFACTURER, TYPE, MODEL NUMBER, LOCATION, OPER. WT. (LBS), ACCESSORIES.

BRANCH CIRCUIT CONTROLLER SCHEDULE

Table with columns: DESIGNATION, BCC 1-1. Rows include VOLTS / PHASE, MCA, MANUFACTURER, MODEL NUMBER, PORTS, LOCATION, CONNECTED IDUs, OPER. WT. (LBS), ACCESSORIES.

- 1. INSULATED BALL VALVES ON ALL PORTS.
2. RS/RL FITTINGS AND REDUCERS AS REQUIRED PER MANUFACTURER'S SIZING.
1. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST.
MICROMETL #PECD-PR2BCCA-DT08-4LH OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. 2019 CEC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.
3. CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
4. STAINLESS STEEL GAS HEAT EXCHANGER.
5. HAIL GUARDS.
6. FACTORY-INSTALLED PHASE MONITOR.
7. SUPPLY DUCT SMOKE DETECTOR. (SYSTEM SENSOR D4120) PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.
8. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST.
MICROMETL #PECD-PR2BCCA-DT08-4LH OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

PACKAGE AIR CONDITIONING SCHEDULE (BUILDING E)

Table with columns: DESIGNATION, HC-E1, HC-E2, HC-E3, HC-E4. Rows include VOLTS / PHASE, F.L.A., MCA / MOCP (AMPS), EER / SEER @ ARI, SUPPLY AIR (CFM), EXT. SP (IN. WC), MIN. O.S.A. (CFM), DCV MIN. O.S.A. (CFM), HP / BHP, RPM, DRIVE, NOMINAL TONS, SENSIBLE (MBH), TOTAL (MBH), REFRIGERANT TYPE, EADB / EAWB (°F), AMBIENT AIR (°F), INPUT CAP. (MBH), OUTPUT CAP. (MBH), FUEL, AFUE (%), QTY / SIZE, TYPE, MANUFACTURER, TYPE, MODEL NUMBER, SERVICE, *OPER. WT (LBS), ACCESSORIES.

- *OPERATING WEIGHT INCLUDES BASE UNIT AND ACCESSORIES. CURB BY OTHERS.
1. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST.
MICROMETL #PECD-PR2BCCA-DT08-4LH OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST.
MICROMETL #PECD-PR2BCCA-DT08-4LH OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. 2019 CEC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.
4. CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
5. STAINLESS STEEL GAS HEAT EXCHANGER.
6. HAIL GUARDS.
7. FACTORY-INSTALLED PHASE MONITOR.
8. SUPPLY DUCT SMOKE DETECTOR. (SYSTEM SENSOR D4120) PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.

PACKAGE AIR CONDITIONING SCHEDULE (BUILDING K2)

Table with columns: DESIGNATION, HC-K3, HC-K4. Rows include VOLTS / PHASE, F.L.A., MCA / MOCP (AMPS), EER / SEER @ ARI, SUPPLY AIR (CFM), EXT. SP (IN. WC), MIN. O.S.A. (CFM), DCV MAX. O.S.A. (CFM), HP / BHP, RPM, DRIVE, NOMINAL TONS, SENSIBLE (MBH), TOTAL (MBH), REFRIGERANT TYPE, EADB / EAWB (°F), AMBIENT AIR (°F), INPUT CAP. (MBH), OUTPUT CAP. (MBH), FUEL, AFUE (%), QTY / SIZE, TYPE, MANUFACTURER, TYPE, MODEL NUMBER, SERVICE, *OPER. WT (LBS), ACCESSORIES.

- *OPERATING WEIGHT INCLUDES BASE UNIT AND ACCESSORIES. CURB BY OTHERS.
1. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST.
MICROMETL #PECD-PR2BCCA-DT08-4LH OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. 2019 CEC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.
3. CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
4. STAINLESS STEEL GAS HEAT EXCHANGER.
5. HAIL GUARDS.
6. FACTORY-INSTALLED PHASE MONITOR.
7. SUPPLY DUCT SMOKE DETECTOR. (SYSTEM SENSOR D4120) PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.
8. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST.
MICROMETL #PECD-PR2BCCA-DT08-4LH OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

PACKAGE AIR CONDITIONING SCHEDULE (BUILDING K1)

Table with columns: DESIGNATION, HC-K1, HC-K2. Rows include VOLTS / PHASE, F.L.A., MCA / MOCP (AMPS), EER / SEER @ ARI, SUPPLY AIR (CFM), EXT. SP (IN. WC), MIN. O.S.A. (CFM), DCV MAX. O.S.A. (CFM), HP / BHP, RPM, DRIVE, NOMINAL TONS, SENSIBLE (MBH), TOTAL (MBH), REFRIGERANT TYPE, EADB / EAWB (°F), AMBIENT AIR (°F), INPUT CAP. (MBH), OUTPUT CAP. (MBH), FUEL, AFUE (%), QTY / SIZE, TYPE, MANUFACTURER, TYPE, MODEL NUMBER, SERVICE, *OPER. WT (LBS), ACCESSORIES.

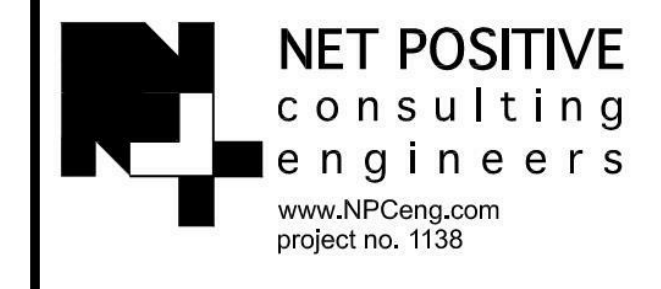
- *OPERATING WEIGHT INCLUDES BASE UNIT AND ACCESSORIES. CURB BY OTHERS.
1. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST.
MICROMETL #PECD-PR2BCCA-DT08-4LH OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. 2019 CEC COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.
3. CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
4. STAINLESS STEEL GAS HEAT EXCHANGER.
5. HAIL GUARDS.
6. FACTORY-INSTALLED PHASE MONITOR.
7. SUPPLY DUCT SMOKE DETECTOR. (SYSTEM SENSOR D4120) PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.
8. TITLE 24 COMPLIANT 0-100% MODULATING ECONOMIZER WITH POWER EXHAUST.
MICROMETL #PECD-PR2BCCA-DT08-4LH OR APPROVED EQUAL. PROVIDE SEPARATE POWER CONNECTION FOR POWER EXHAUST (460V / 3 PH, 1 HP, 2.8 FLA). SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

DSA File No.: DSA File

DSA Application No.: DSA App

Agency Approval

General Notes



McKinley / Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

TYPICAL INFORMATION
MECHANICAL SCHEDULES

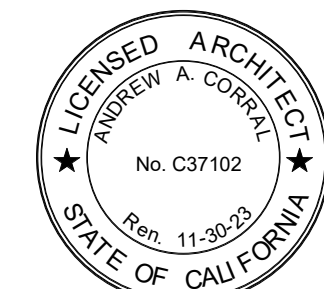


Table with columns: No., Revision/Submission, Date

Revision

Designed By: HB Copyright 2022 Darden Architects

Scale: 12" = 1'-0" Drawn By: HB

Project Number: 2116 Checked By: JCS

Date: 02/08/2023 Reviewed By: HB

X/M103

EXHAUST FAN SCHEDULE													
DESIGNATION	EF-A1	EF-B1	EF-B2	EF-B3	EF-B4	EF-C1	EF-C2	EF-C3	EF-C4	EF-D1	EF-D2	EF-D3	EF-D4
CFM	125	250	1,125	200	100	290	1,470	105	95	1,645	155	380	530
EXT. SP (IN. WC)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
HP / BHP	1/8 / 0.10	1/8 / 0.05	1/2 / 0.32	1/20 / 0.04	1/8 / 0.08	1/8 / 0.06	3/4 / 0.69	1/8 / 0.09	1/8 / 0.06	1/2 / 0.37	1/8 / 0.13	1/8 / 0.08	1/6 / 0.13
VOLTS / PHASE	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
RPM	1492	1425	2257	1440	1418	1466	2143	1429	1004	1755	1620	1567	1557
TIP SPEED / SONES	- / 8.2	- / 5.2	- / 18.5	- / 5.3	- / 7.3	- / 5.5	- / 24	- / 7.4	- / 5.4	- / 14.8	- / 9.8	- / 8.6	- / 8.2
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DRIVE	DRIVE	DRIVE	DRIVE
MOUNTING	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
MANUFACTURER	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	101C17DOR60VF ACE-D VF	90C17DH ACE-EC VF	101C289D ACE-D VF	90C17DL ACE-D VF	101C17DOR60VF ACE-D VF	90C17DH ACE-D VF	120C28DOR91VF ACE-D	101C17DOR60VF ACE-D	135C17DOR60VF ACE-D	120C28D ACE-D VF	101C17DOR60VF ACE-D	90C17DH ACE-D VF	100C17DH ACE-D VF
CONTROL	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS	EMS
SERVICE	BUILDING A, ELECTRICAL ROOM 112S	BUILDING B, ELECTRICAL 407	BUILDING B, RESTROOMS 404-405	BUILDING B, SPECIAL ED. RESTROOM 416	BUILDING B, JANITOR/FIRE RISER 410	BUILDING C, ELECTRICAL 111	BUILDING C, RESTROOMS 109-110	BUILDING C, JANITOR/FIRE RISER 113	BUILDING C, RESTROOM 111	BUILDING D, RESTROOMS 117-118, 120-121	BUILDING D, JANITOR 119	BUILDING D, ELECTRICAL ROOM 114	BUILDING D, FIELD STORAGE
LOCATION	BUILDING A	BUILDING B	BUILDING B	BUILDING B	BUILDING B	BUILDING C	BUILDING C	BUILDING C	BUILDING C	BUILDING D	BUILDING D	BUILDING D	BUILDING D
OPER. WT. (LBS)	25	22	33	16	25	22	39	25	35	38	25	22	23
ACCESSORIES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2

- VARIABLE ECM MOTOR.
- BACKDRAFT DAMPER.
- INTERLOCK WITH MUA-1 SUPPLY AIR FAN. SEE KITCH CONTROL DIAGRAM.
- INTERLOCK WITH DISHWASHER THRU 120V CONTROL RELAY.
- SEE SHEET XM802 FOR KITCHEN HOOD DRAWINGS AND ADDITIONAL INFORMATION.

EXHAUST FAN SCHEDULE (CONTINUED)									
DESIGNATION	EF-E1	EF-E2	EF-E3	EF-E4	EF-E5	EF-K1	EF-K2	EF-K3	EF-K4
CFM	2,750	600	440	820	455	270	195	180	210
EXT. SP (IN. WC)	1.10	0.30	0.50	0.50	0.50	0.50	0.50	0.50	0.50
HP / BHP	1.50 / 1.089	1/8 / 0.12	1/8 / 0.10	1/3 / 0.17	1/8 / 0.10	1/8 / 0.06	1/20 / 0.04	1/8 / 0.04	1/8 / 0.05
VOLTS / PHASE	208 / 3	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
RPM	1154	1674	1647	1781	1669	1434	1273	1276	1276
TIP SPEED / SONES	- / 15.7	- / 7.6	- / 6.7	- / 11.1	- / 6.8	- / 5.4	- / 5.3	- / 6.1	- / 6.1
DRIVE	DIRECT	DIRECT	DRIVE	DRIVE	DRIVE	DRIVE	DRIVE	DRIVE	DRIVE
MOUNTING	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
MANUFACTURER	GREASEMASTER	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	GMDU180H	90C17DH ACE-D VF	90C17DH ACE-D VF	101C28D ACE-D VF	90C17DH ACE-D VF	90C17DH ACE-D VF	90C17DL ACE-D VF	100C17DL ACE-D VF	100C17DH ACE-D VF
CONTROL	NOTE 3	NOTE 4	EMS	EMS	EMS	EMS	EMS	EMS	EMS
SERVICE	BUILDING E, KITCHEN HOOD	BUILDING E, DISHWASHER	BUILDING E, RESTROOMS 121, 123, 125A & JANITOR 120	BUILDING E, RESTROOMS 109 & 111	BUILDING E, ELECTRICAL ROOM 102	BUILDING K1, RESTROOMS 114-115	BUILDING K1, STORAGE 116 & ELECTRICAL 117	BUILDING K2, RESTROOMS 109-110 & CUSTODIAL 118	BUILDING K2, ELECTRICAL ROOM 106
OPER. WT. (LBS)	177	22	22	33	22	22	16	23	23
ACCESSORIES	1,2,3	1,2,4	1,2	1,2	1,2	1,2	1,2,4	1,2,4	1,2

- VARIABLE ECM MOTOR.
- BACKDRAFT DAMPER.
- INTERLOCK WITH MUA-1 SUPPLY AIR FAN. SEE KITCHEN CONTROL DIAGRAM.
- INTERLOCK WITH DISHWASHER THRU 120V CONTROL RELAY.
- SEE SHEET XM802 FOR KITCHEN HOOD DRAWINGS AND ADDITIONAL INFORMATION.

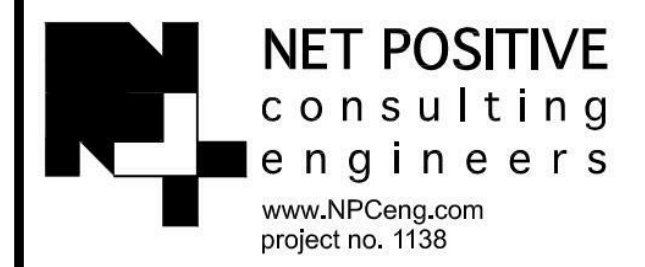
KITCHEN HOOD SCHEDULE	
DESIGNATION	KH-1
OVERALL LENGTH (FT.-IN.)	13'-9"
OVERALL DEPTH (FT.-IN.)	6'-2"
OVERALL HEIGHT (FT.-IN.)	2'-0"
FLOW RATE (CFM)	2,200
SP (IN. WC)	0.88
DUCT COLLAR QTY / SIZE (IN.)	2 / 12
DUCT COLLAR VELOCITY	1,751
FILTER QTY / SIZE (IN.)	10 / 16"x16"
FILTER TYPE / EFFICIENCY	S BAFFLE / 85%
FLOW RATE (CFM)	2,200
SP (IN. WC)	0.17
DUCT COLLAR QTY / SIZE (IN.)	3 / 12x28
DUCT COLLAR VELOCITY (FPM)	725
QTY / TYPE	4 / L55 SERIES
VOLTS / PHASE	115 / 1
MANUFACTURER	GREASEMASTER
MODEL NUMBER	6024 GSN-2-PSF-F
HOOD TYPE	TYPE 1
MATERIAL & GAUGE	430 STAINLESS STEEL
RIGHT END	-
LEFT END	NOTE 3
CONTROL	A
LOCATION	KITCHEN
OPER. WT (LBS)	1189
ACCESSORIES	1,2,3,4

- STAINLESS STEEL BAFFLE GREASE FILTERS.
- LIGHTS AND ELECTRICAL THROUGH PRE-WIRED TERMINAL BOX.
- PROVIDE HOOD MOUNTED FIRE CABINET FOR INTEGRATED ANSUL R102 SYSTEM AND CONTROLS. (OPTION SC-311110MA)
- SEE SHEET XM802 FOR KITCHEN HOOD DRAWINGS AND ADDITIONAL INFORMATION.

MAKE-UP AIR UNIT SCHEDULE	
DESIGNATION	MUA-1
CFM	2,200
EXT. SP (IN. WC)	0.50
HP / BHP	1 / 0.57
VOLTS / PHASE	208 / 3
MCA / MOCP	4.8 / 15
RPM	1,015
INPUT (MBH)	103.2
OUTPUT (MBH)	94.9
FUEL	NATURAL GAS
MANUFACTURER	GREASEMASTER
TYPE	GAS-FIRED
MODEL NUMBER	GM-A2-D.250-20D
CONTROL	NOTE 4
LOCATION	BUILDING E
OPER. WT. (LBS)	647
ACCESSORIES	1,2,3,4,5,6

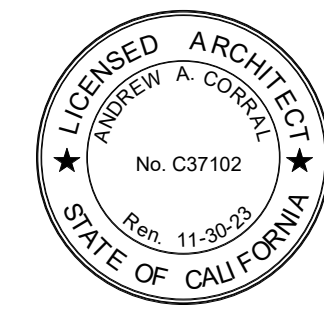
- DOWN DISCHARGE
- INLET & MANIFOLD PRESSURE GAGES.
- LOW FIRE STAT.
- AC INTERLOCK RELAY (24VAC), INTERLOCK WITH KITCHEN HOOD CONTROL PANEL.
- MOTORIZED BACKDRAFT DAMPER.
- SEE SHEET XM802 FOR KITCHEN HOOD DRAWINGS AND ADDITIONAL INFORMATION.

General Notes



McKinley / Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

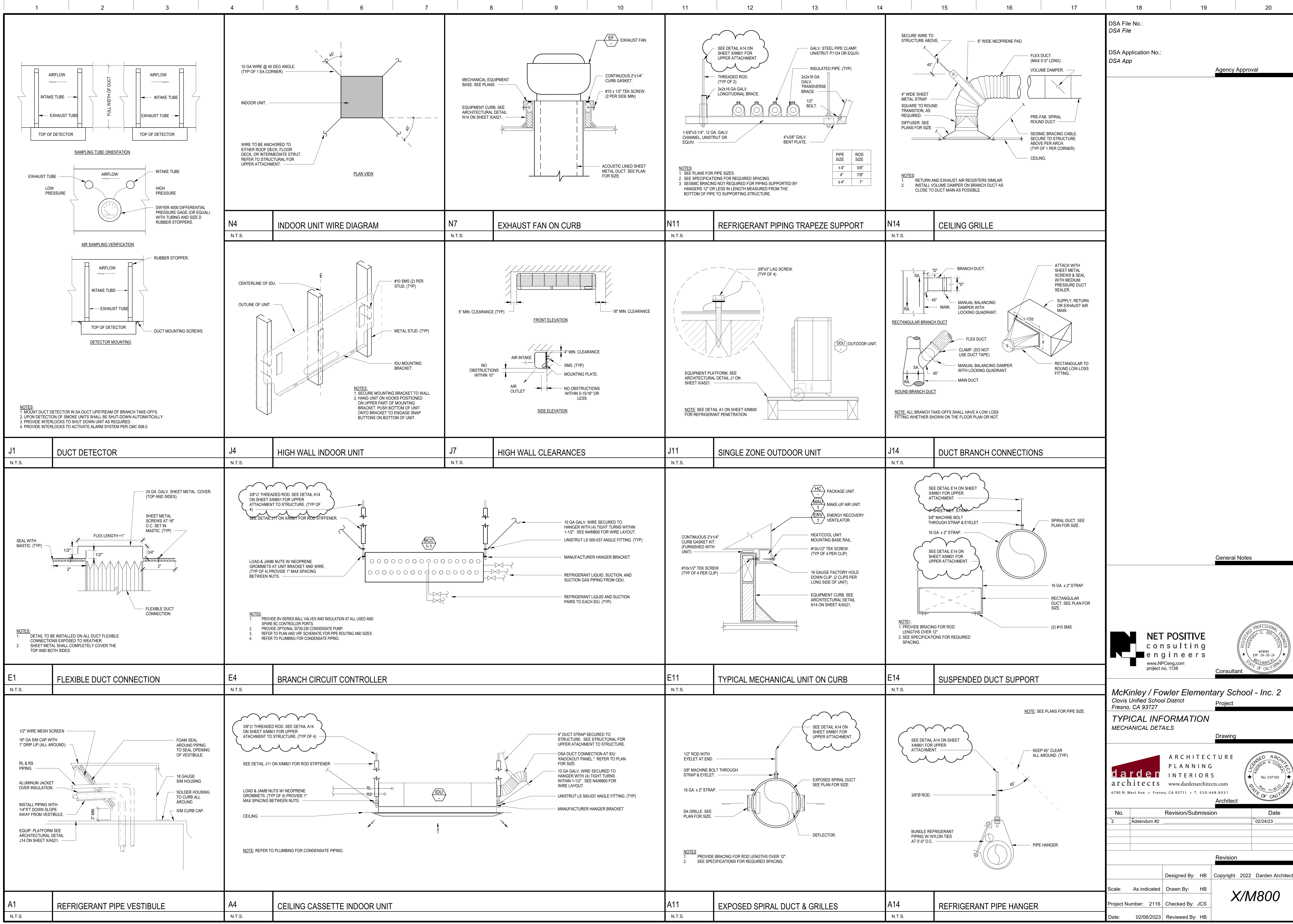
TYPICAL INFORMATION
MECHANICAL SCHEDULES



No.	Revision/Submission	Date
2	Addendum #2	02/24/23

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Project Number: 2116
Date: 02/06/2023

X/M104



DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1138

Consultant

McKinley / Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

Project

TYPICAL INFORMATION
MECHANICAL DETAILS

Drawing

ARCHITECTURE
darden PLANNING INTERIORS
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Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

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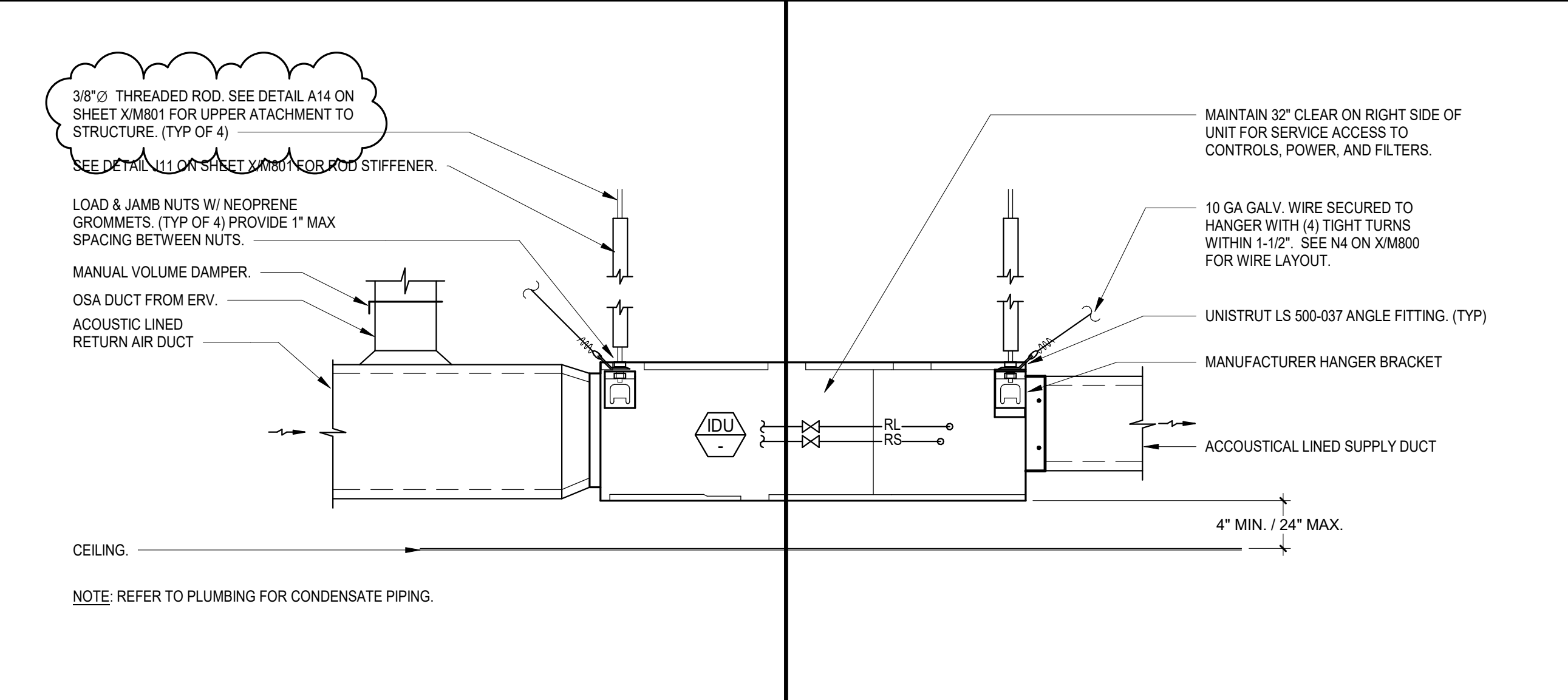
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Project Number: 2116
Checked By: JCS

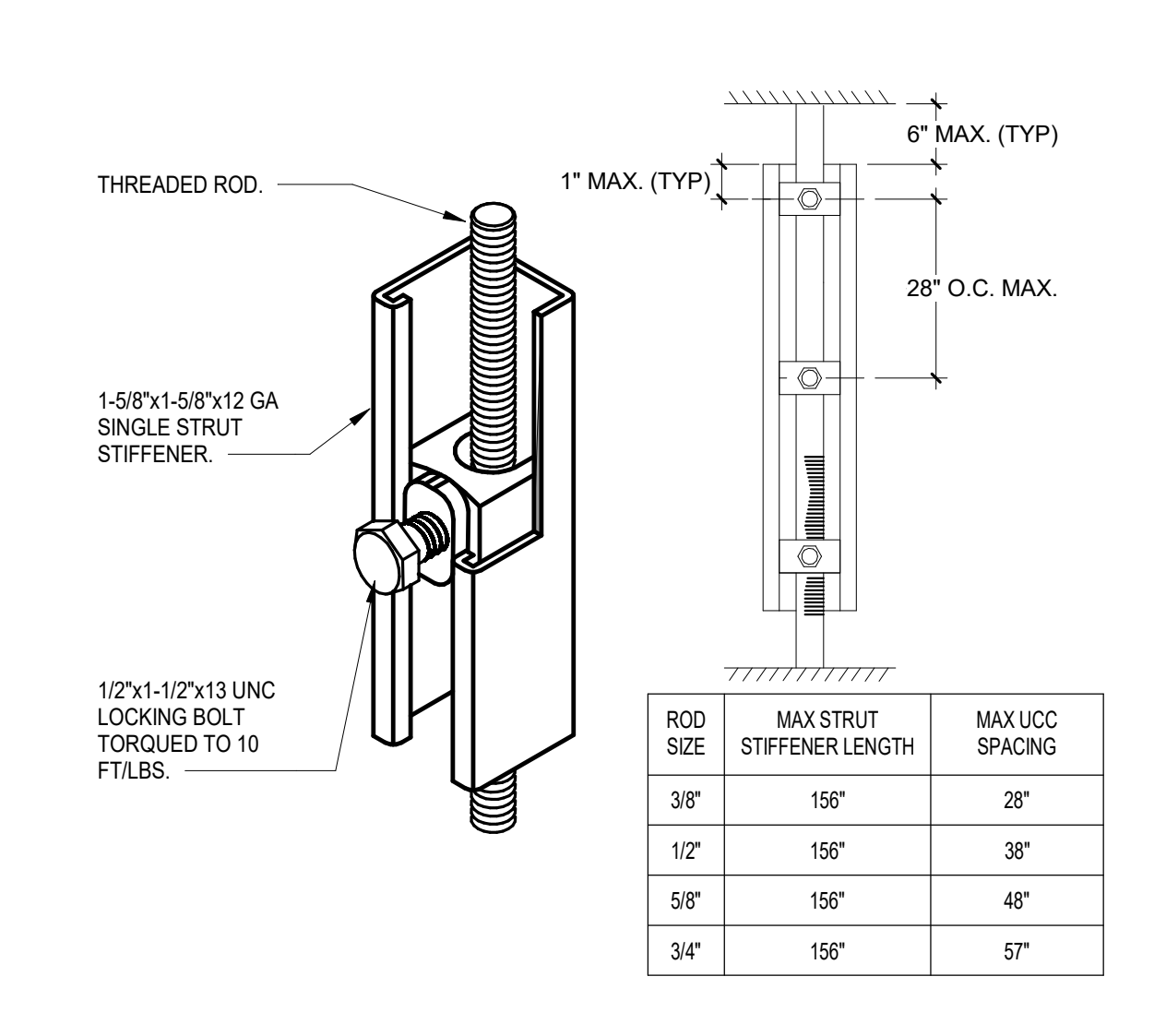
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X/M800

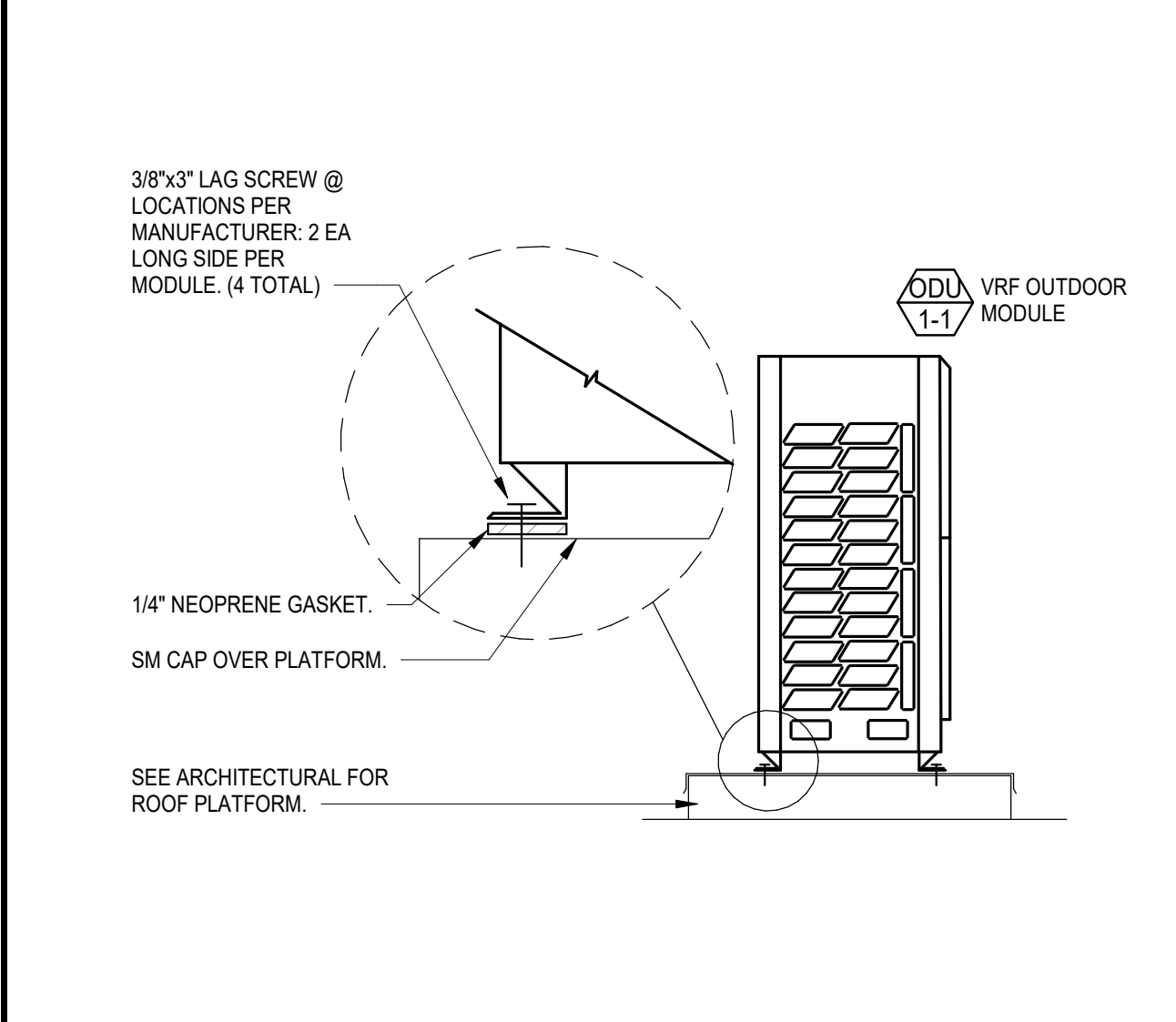
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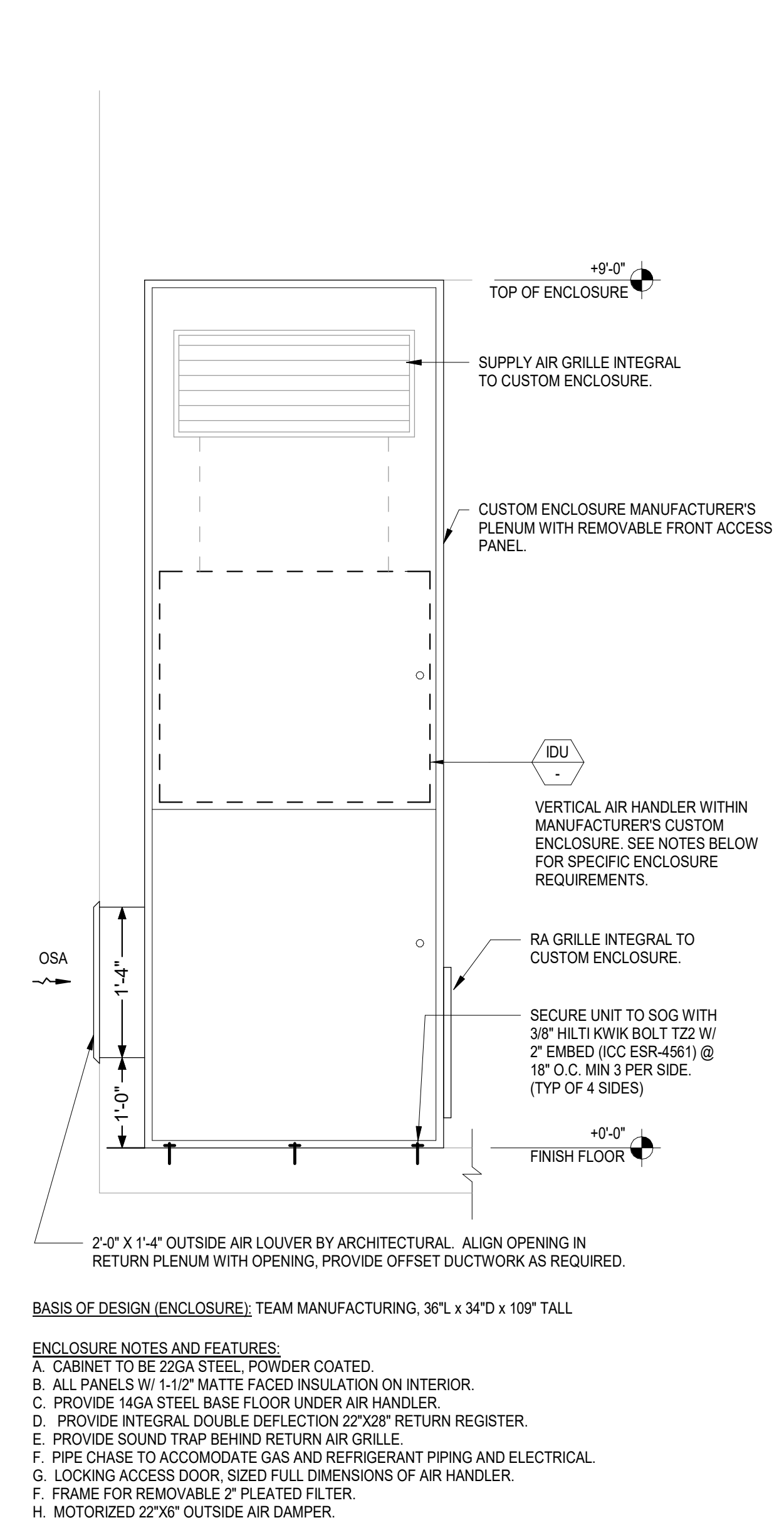
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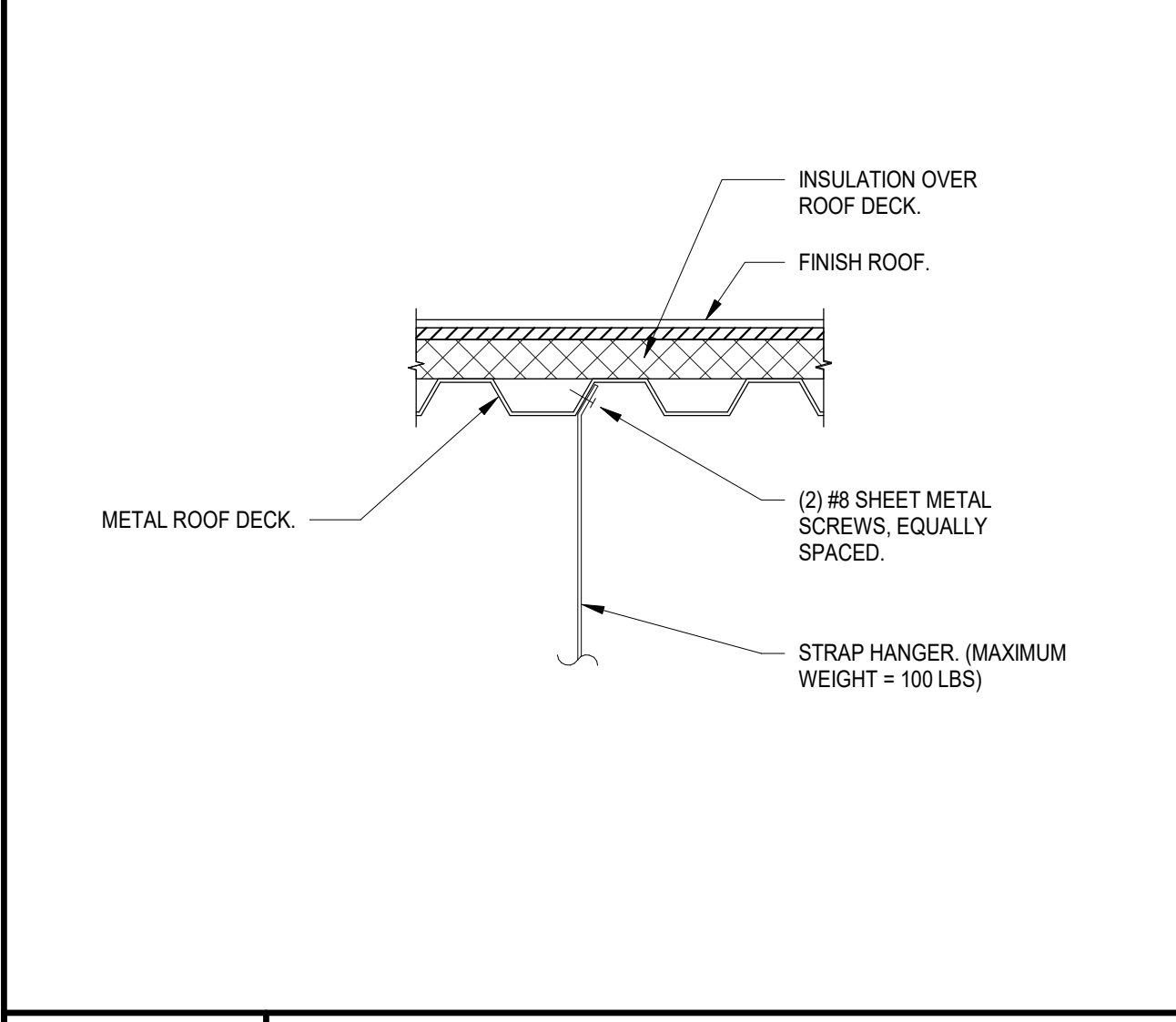
J11 ROD STIFFENER DETAIL
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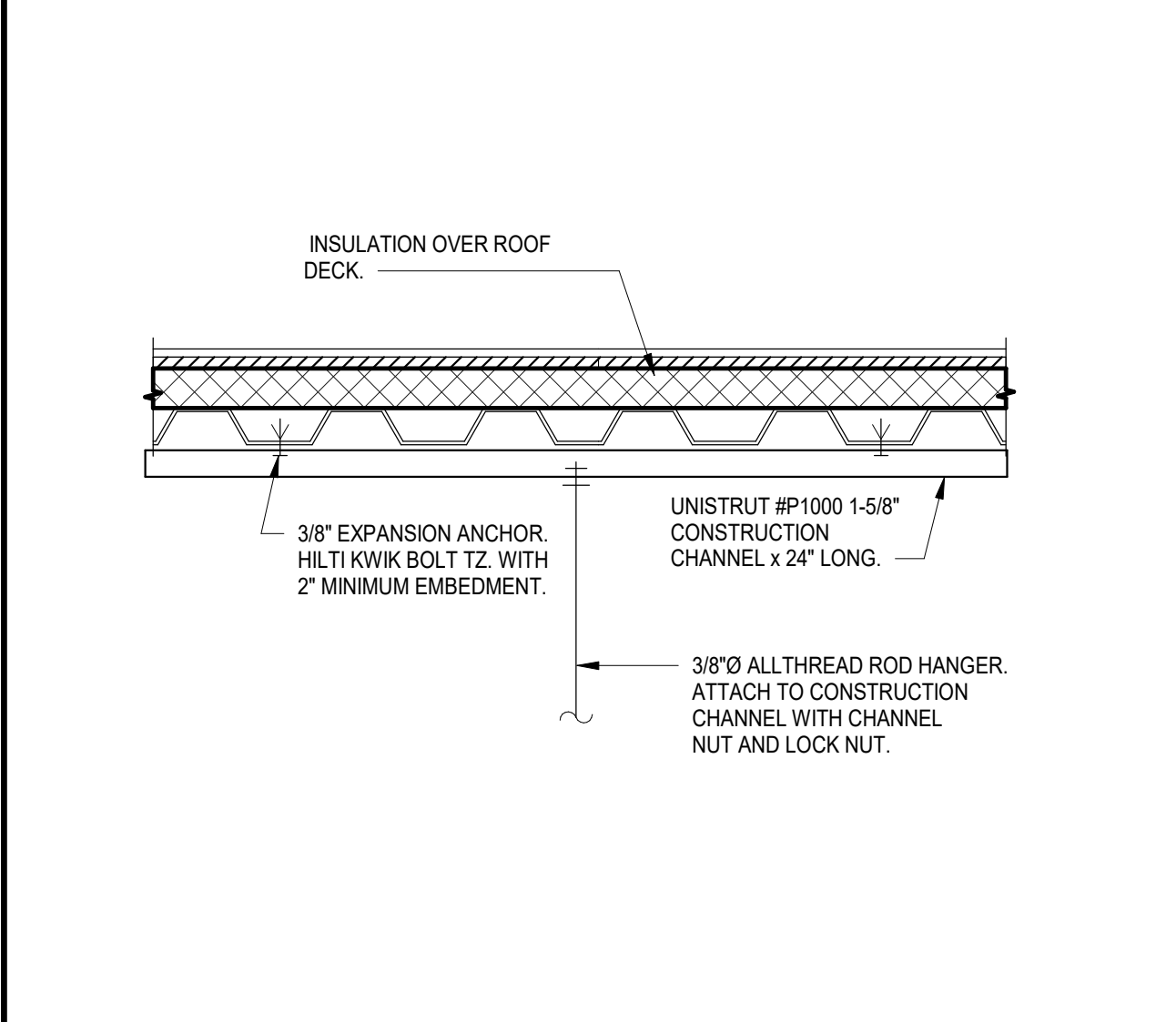
J14 VRF OUTDOOR UNIT DETAIL
N.T.S.



A11 AIR HANDLER IN CUSTOM ENCLOSURE
N.T.S.



E14 DUCTWORK SUPPORT DETAIL
N.T.S.



A14 SUPPORT DETAIL
N.T.S.

DSA File No.:
DSA File

DSA Application No.:
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General Notes

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Clovis Unified School District
Fresno, CA 93727

Project

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Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

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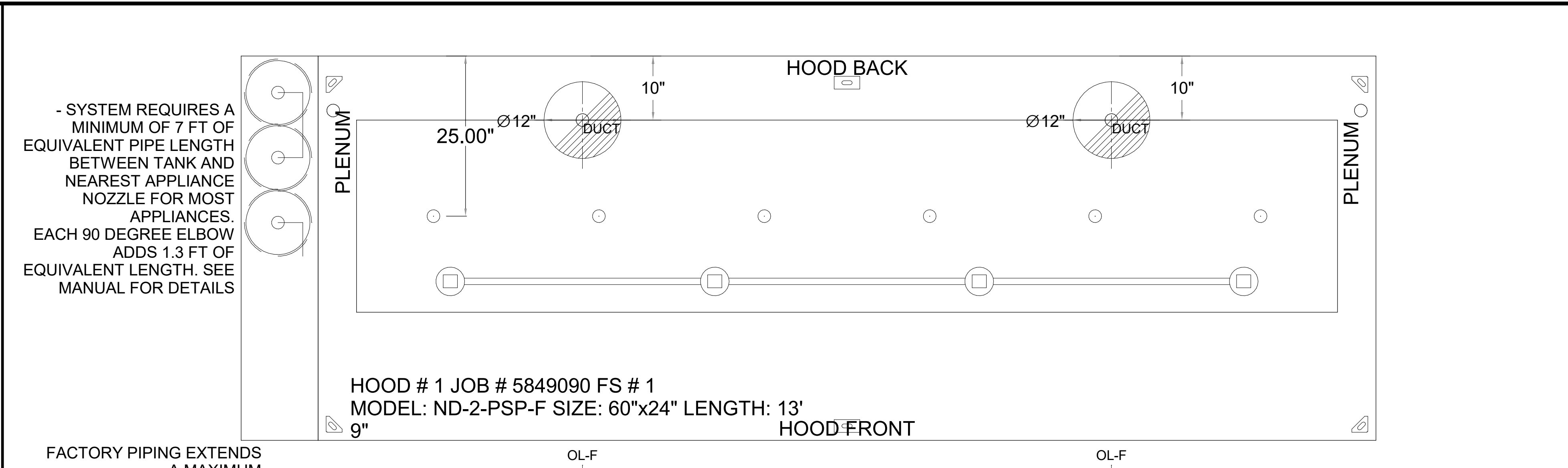
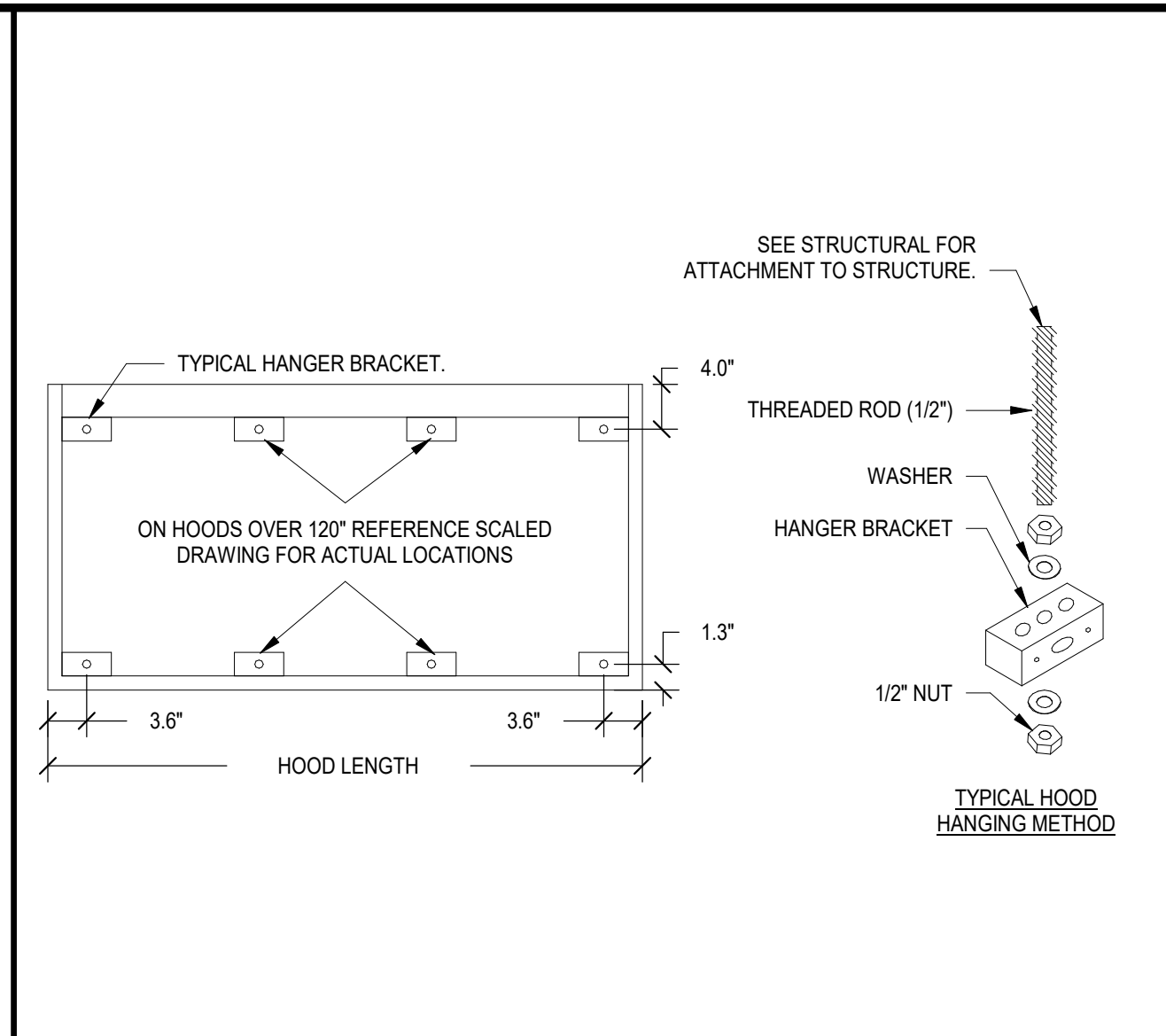
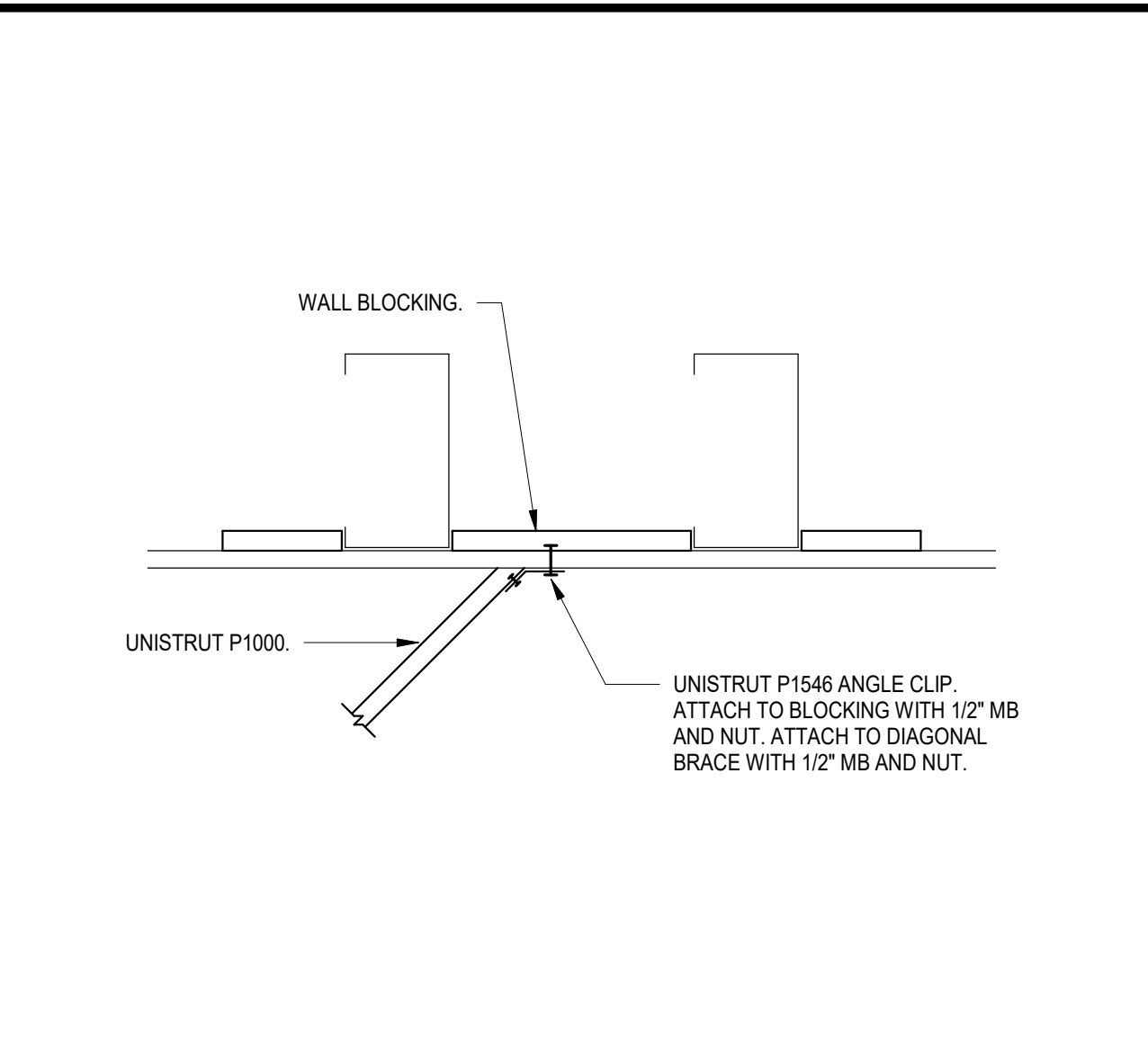
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Project Number: 2116
Checked By: JCS

Date: 02/06/2023
Reviewed By: HB

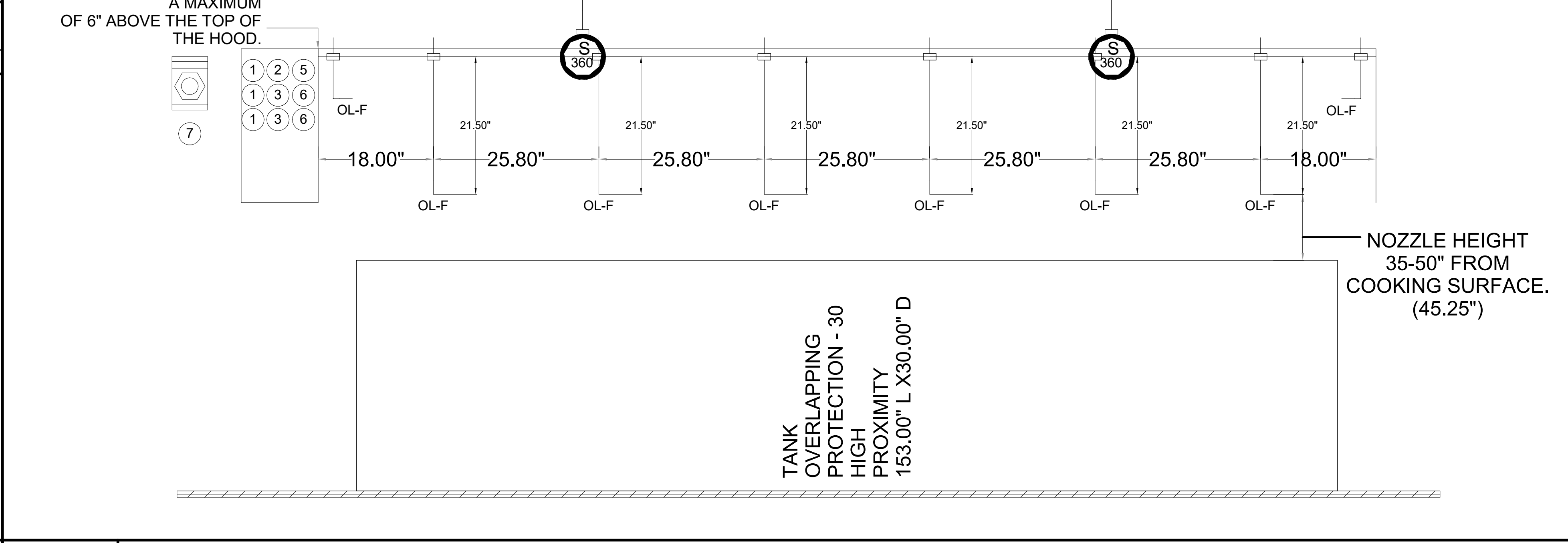
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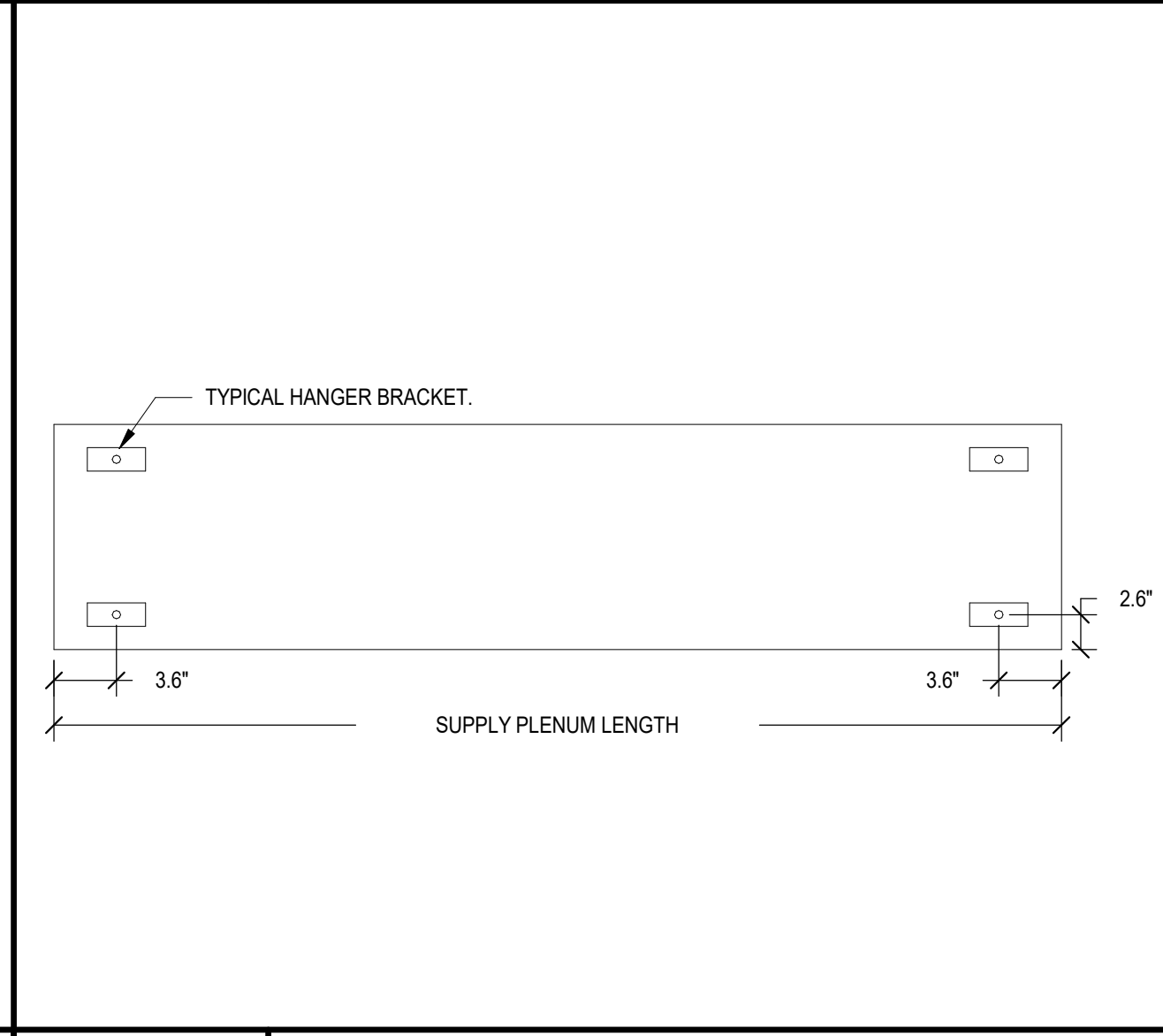
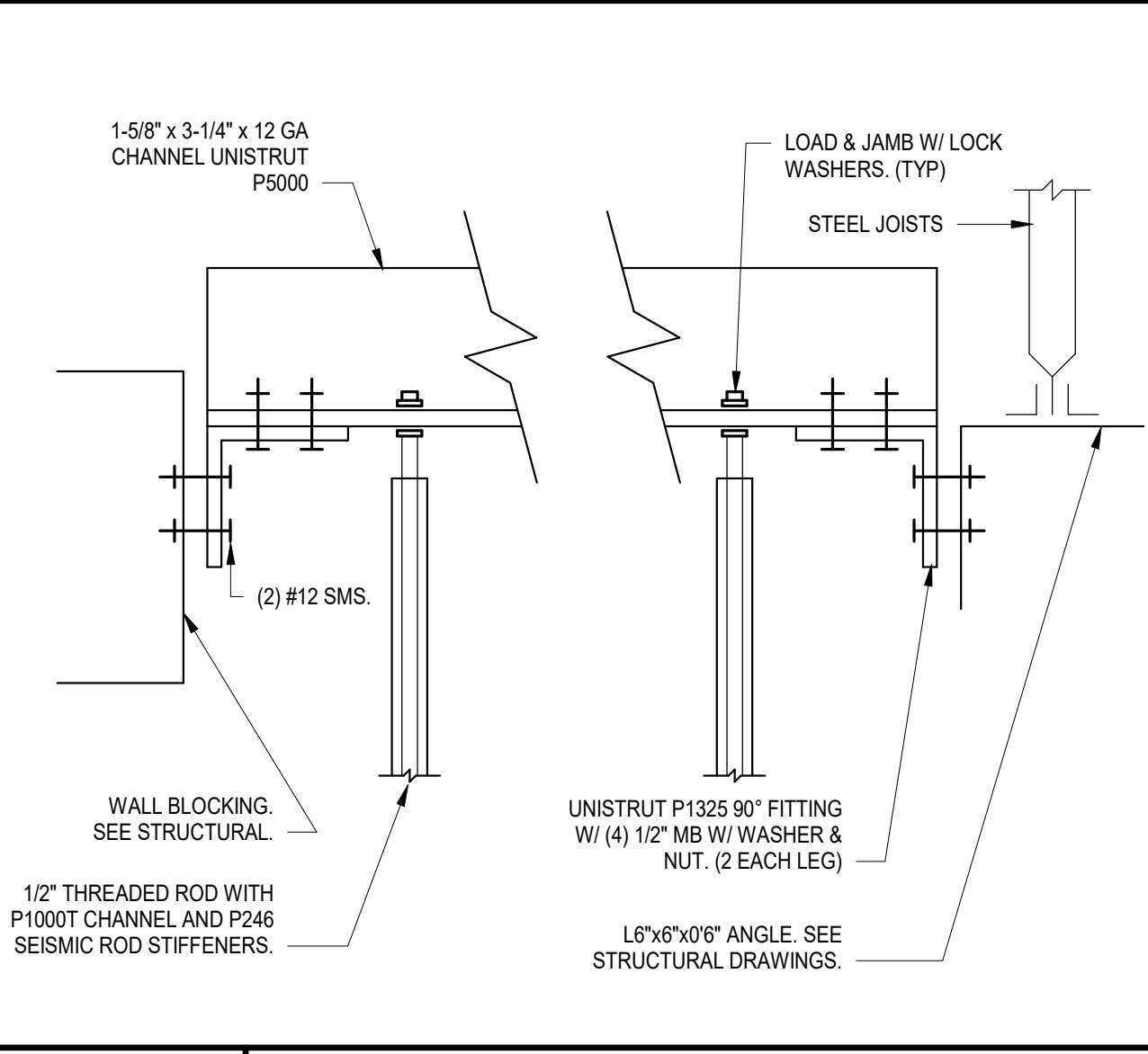


N1 HANGER BRACE WALL ATTACHMENT
N.T.S.

N4 HOOD HANGER BRACKET
N.T.S.

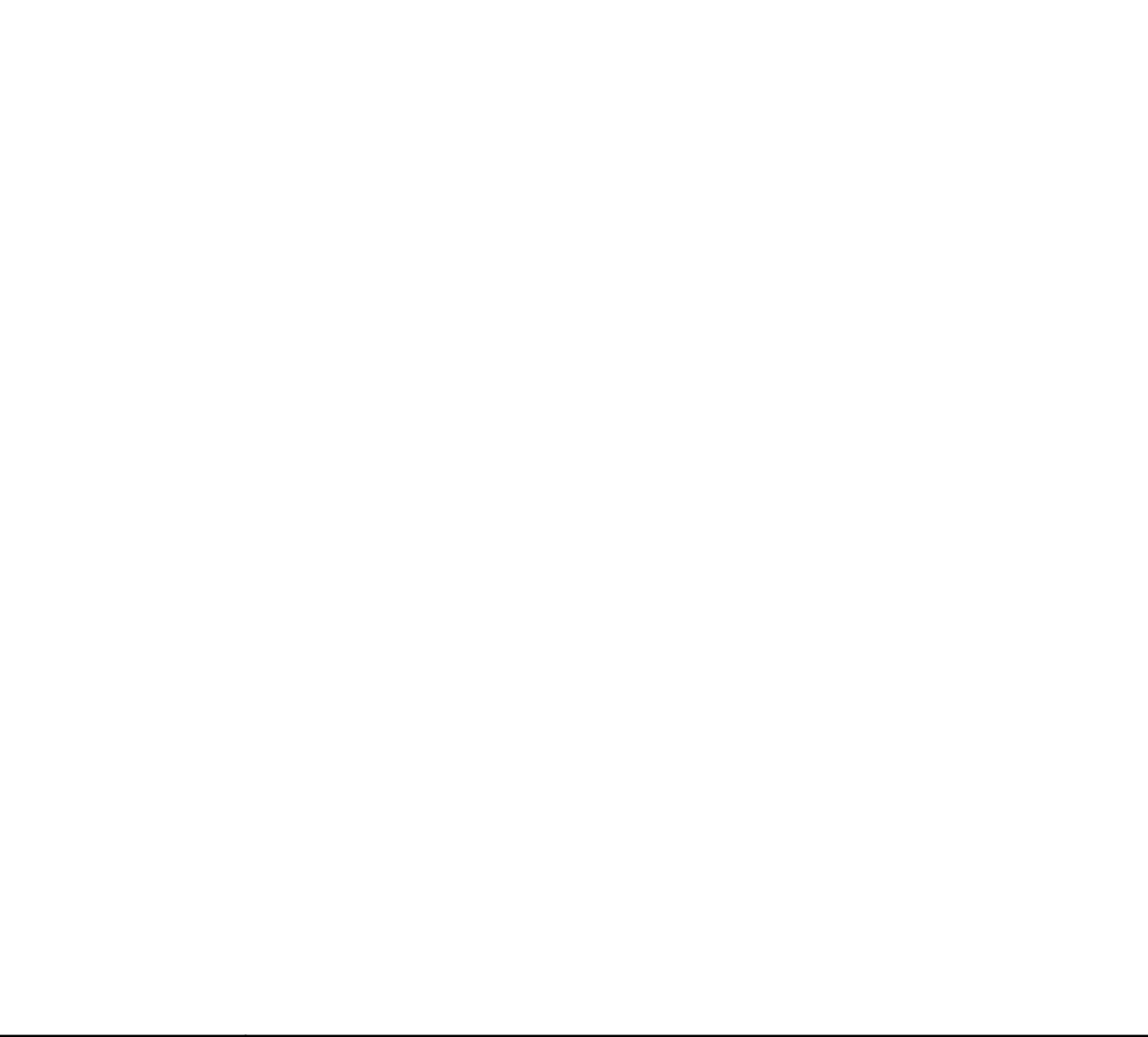


J7 ANSUL R-102 FIRE SUPPRESSION LAYOUT
N.T.S.

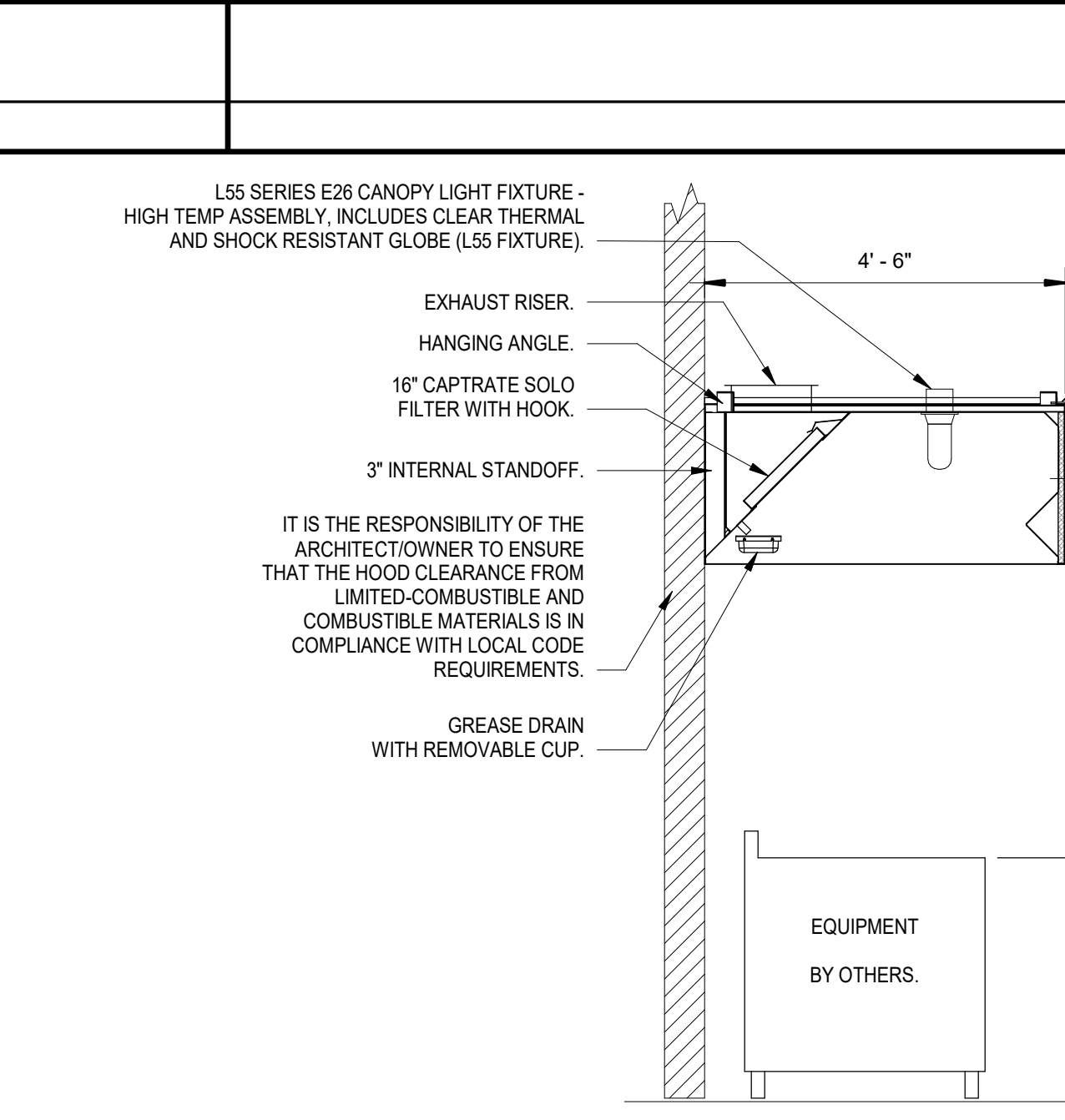


J1 HANGER CONNECTION TO STRUCTURE
N.T.S.

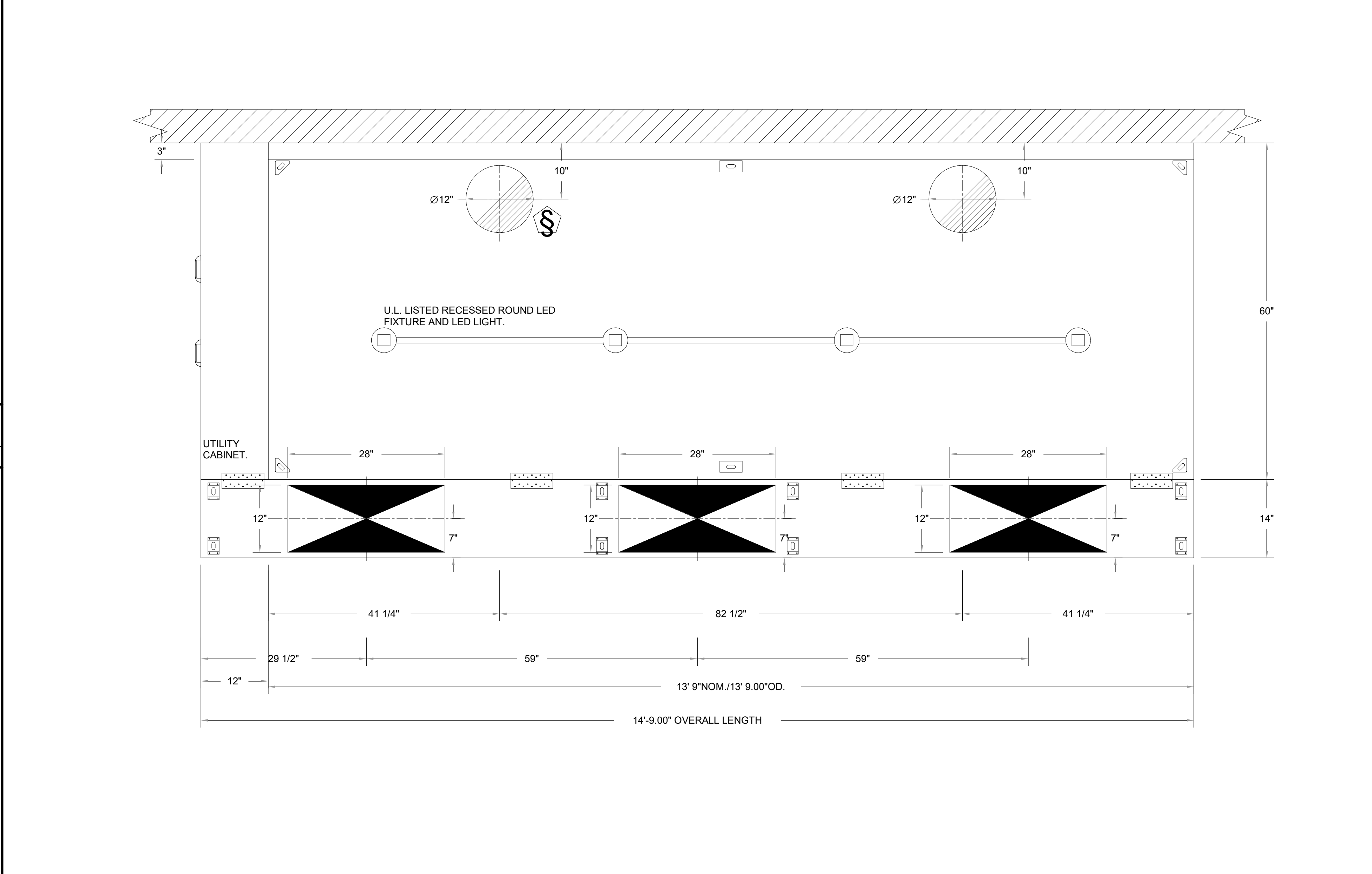
J4 SUPPLY PLENUM HANGER BRACKET
N.T.S.



E4 EXHAUST ONLY DOUBLE SHELL FRONT
N.T.S.



A1 ELEVATION VIEW - KITCHEN HOOD
1/2" = 1'-0"



A7 PLAN VIEW - KITCHEN HOOD
N.T.S.

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

ANSUL R-102 SYSTEM DESIGN & APPLICATION NOTES

THE ANSUL R-102 FIRE SUPPRESSION SYSTEM IS DESIGNED TO PROVIDE FIRE PROTECTION FOR RESTAURANT COOKING APPLIANCES, HOODS AND DUCTS. IT IS A PRE-ENGINEERED GROUP OF MECHANICAL AND ELECTRICAL COMPONENTS FOR INSTALLATION BY AN AUTHORIZED ANSUL DISTRIBUTOR. THE BASIC COMPONENTS OF AN ANSUL ASSEMBLY INCLUDE REGULATED RELEASE MECHANISM AND LIQUID AGENT STORAGE TANK(S) HOUSED WITHIN A SINGLE ENCLOSURE. NOZZLES, DETECTORS, CARTRIDGES, LIQUIDAGENT, FUSIBLE LINKS, PULLEY TEES, AND PULLEY ELBOWS ARE SUPPLIED IN SEPARATE PACKAGES. IN THE QUANTITIES NEEDED FOR EACH FIRE SUPPRESSION SYSTEM ARRANGEMENT.

THE SYSTEM PROVIDES AUTOMATIC ACTUATION; OR IT CAN BE ACTUATED MANUALLY THROUGH A REMOTE MANUAL PULL STATION. THE GAS AND ELECTRICAL SUPPLY TO ALL PROTECTED APPLIANCES WILL BE IMMEDIATELY SHUT OFF UPON ACTUATION OF THE SYSTEM, USING APPROPRIATE GAS SHUT-OFF OR ELECTRICAL SHUT DOWN DEVICES. ADDITIONAL EQUIPMENT INCLUDES: REMOTE MANUAL PULL STATION, MECHANICAL AND ELECTRICAL GAS VALVES, PRESSURE SWITCHES, AND ELECTRICAL SWITCHES FOR AUTOMATIC EQUIPMENT AND GAS LINE SHUT-OFF. ACCESSORIES CAN BE ADDED, SUCH AS ALARMS, WARNING LIGHTS, ETC., TO INSTALLATIONS WHERE REQUIRED. THE R-102 SYSTEM SUPPRESSES FIRE BY SPRAYING THE PLENUM AREA, THE FILTERS, COOKING SURFACES, AND THE EXHAUST DUCT WITH A PRE-DETERMINED FLOW RATE OR ANSULEX LOW PH LIQUID FIRE SUPPRESSANT. WHEN THE LIQUID AGENT IS DISCHARGED ONTO A COOKING APPLIANCE FIRE, IT COOLS THE GREASE SURFACE, AND REACTS WITH THE HOT GREASE FORMING A LAYER OF SOAP-LIKE FOAM ON THE SURFACE OF THE FAT. THIS LAYER ACTS AS INSULATION BETWEEN THE HOT GREASE AND THE ATMOSPHERE, THUS HELPING TO PREVENT THE ESCAPE OF COMBUSTIBLE VAPORS.

EXHAUST FANS IN THE VENTILATING SYSTEM SHOULD BE LEFT ON. THE FORCED DRAFT OF THESE FANS ASSISTS THE MOVEMENT OF THE LIQUID AGENT THROUGH THE VENTILATING SYSTEM, THUS AIDING IN THE FIRE SUPPRESSION PROCESS. THESE FANS ALSO PROVIDE A COOLING EFFECT IN THE PLENUM AND DUCT AFTER THE FIRE SUPPRESSION SYSTEM HAS BEEN DISCHARGED. THE SYSTEM IS UL LISTED WITH OR WITHOUT FAN OPERATION. IT IS ALSO RECOMMENDED THAT MAKE UP OR SUPPLY AIR FANS BE SHUT DOWN UPON SYSTEM ACTUATION. SHUTDOWN OF FUEL AND POWER TO ALL APPLIANCES LOCATED UNDER PROTECTED VENTILATING EQUIPMENT IS REQUIRED UPON SYSTEM ACTUATION.

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1138

Consultant

McKinley / Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

TYPICAL INFORMATION
KITCHEN HOOD DETAILS

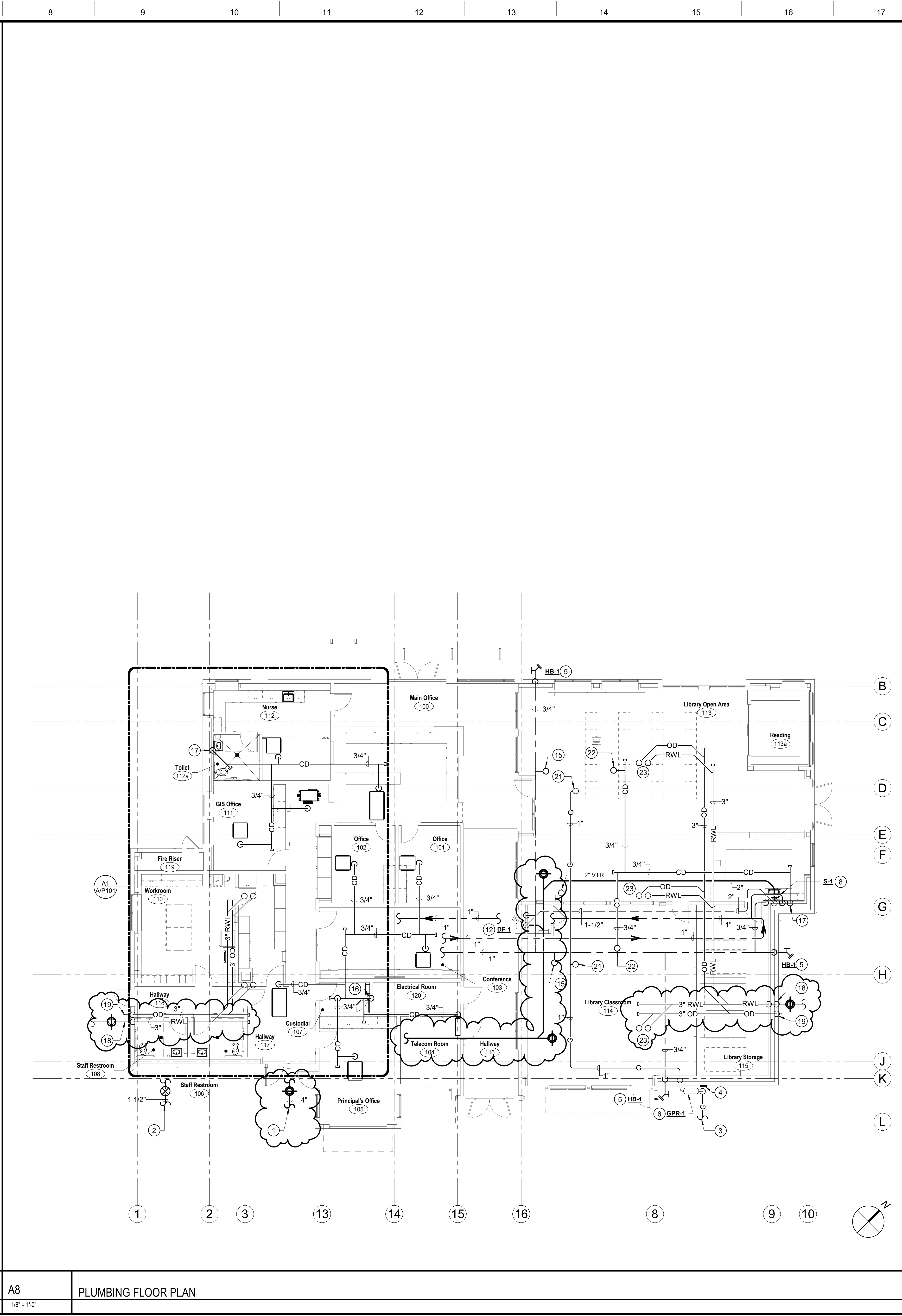
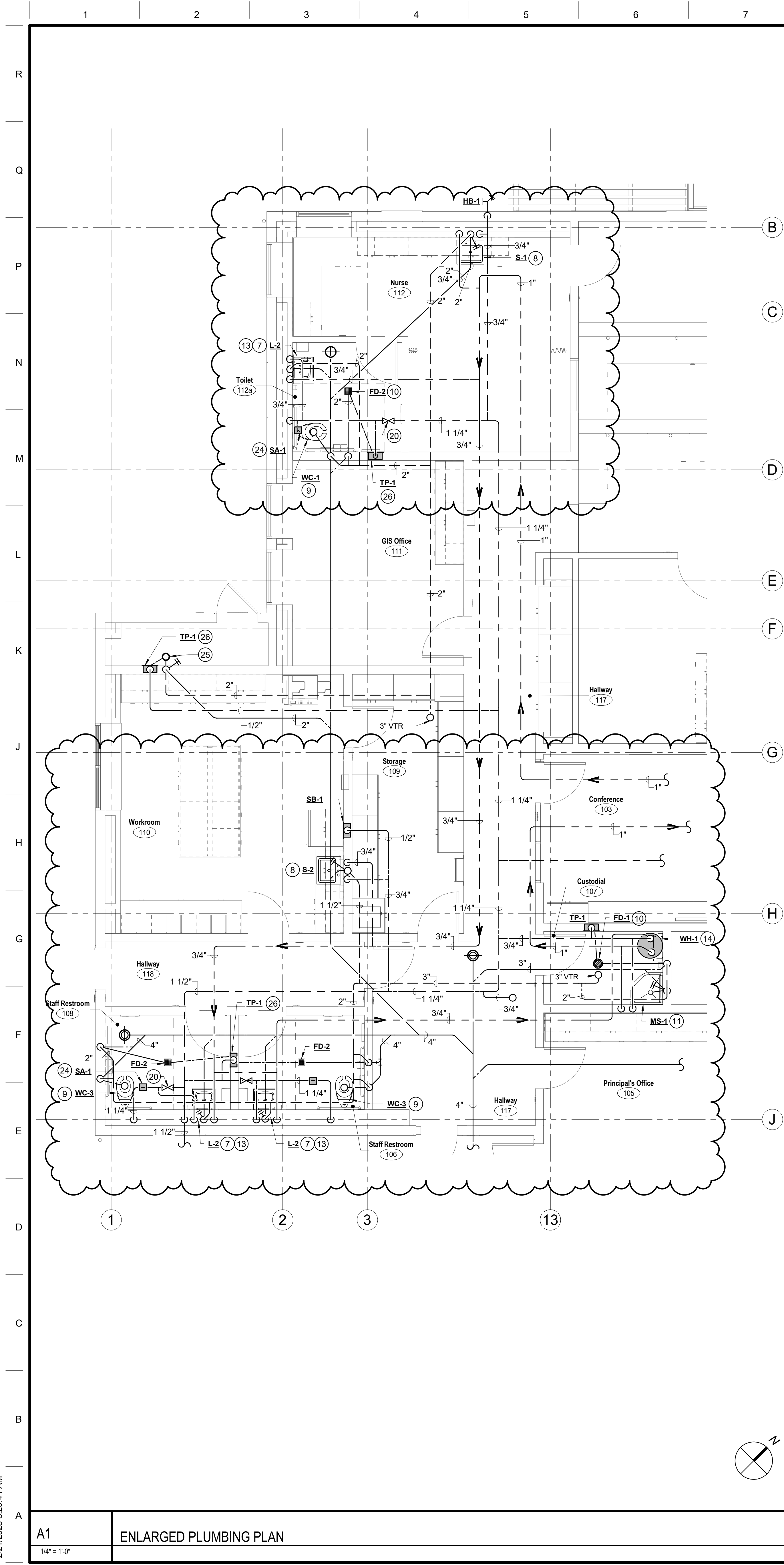
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Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision	
Designed By:	HB
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Scale:	As indicated
Drawn By:	HB
Project Number:	2116
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Date:	02/06/2023
Reviewed By:	HB

X/M802



DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

- ### KEYNOTES #
- 1 4" SEWER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 2 1-1/2" COLD WATER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 3 MEDIUM PRESSURE GAS CONNECTION FOR BUILDING. SEE SHEET SD/P101 FOR CONTINUATION.
 - 4 GAS SHUT-OFF VALVE SIGN MOUNTED ON WALL. SEE DETAIL A14 ON SHEET XP800.
 - 5 3/4" CW DN AT +1'-6" AFF.
 - 6 BUILDING GAS SHUT-OFF VALVE & GAS REGULATOR ABOVE GRADE IN LOCKABLE CABINETS. SEE DETAIL E14 ON SHEET XP800 FOR PIPING INSTALLATION DETAIL.
 - 7 COORDINATE SEWER ROUTING FOR PLUMBING FIXTURE ABOVE STRUCTURAL GRADE BEAM.
 - 8 1/2" CW DN TO WATER CLOSET.
 - 9 4" S, 2" V, 1" CW DN TO WATER CLOSET.
 - 10 2" S W/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN/FLOOR SINK.
 - 11 3" S W/ TRAP, 1-1/2" V, 3/4" CW & 3/4" HW DN FOR MOP SINK.
 - 12 2" S, 1-1/2" V & 3/4" CW DN FOR DRINKING FOUNTAIN.
 - 13 2" S, 1-1/2" V, 3/4" CW & 3/4" HW DN FOR LAVATORY.
 - 14 WATER HEATER ON PLATFORM. SEE DETAIL J7 ON SHEET XP800.
 - 15 3/4" CW UP TO HOSE BIBB ON ROOF.
 - 16 CONDENSATE DRAIN DN IN WALL. TERMINATE IN MOP SINK W/ 90° ELL DN @ +2" ABV. SINK RIM.
 - 17 CONDENSATE DRAIN PIPING DN IN WALL. CONNECT TO SINK TAILPIECE PER DETAIL A11 ON SHEET XP800.
 - 18 RAINWATER LEADER DN IN EXTERIOR WALL AND CONNECT TO STORM DRAIN BELOW GRADE. PROVIDE 2-WAY SURFACE CLEANOUT PER DETAIL N11 ON SHEET XP800. SEE CIVIL FOR CONTINUATION.
 - 19 OVERFLOW DRAIN TO DAYLIGHT AT EXTERIOR WALL W/ DOWNSPOUT NOZZLE, DS-1. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
 - 20 CW ISOLATION VALVE ABOVE CEILING. COORDINATE VERIFY AND COORDINATE LOCATION WITH CEILING ACCESS PANEL.
 - 21 GAS UP THRU ROOF TO MECHANICAL UNIT. SEE SHEET AP301 FOR CONTINUATION.
 - 22 CD DN THRU ROOF FROM MECHANICAL UNIT. SEE SHEET AP301 FOR CONTINUATION.
 - 23 ROOF & OVERFLOW DRAIN DN THRU ROOF. SEE SHEET AP301 FOR CONTINUATION.
 - 24 SHOCK ABSORBER, (TYP)
 - 25 HUB DRAIN PER DETAIL N1 ON SHEET XP800
 - 26 1/2" CW DN TO TRAP PRIMER.

- ### GENERAL NOTES
- A. SEE DETAIL N1 ON SHEET XP800 FOR TYPICAL CLEANOUT TO GRADE.
 - B. SEE DETAIL J14 ON SHEET XP800 FOR TYPICAL SHUT-OFF VALVE IN YARD BOX.
 - C. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.

General Notes

NET POSITIVE
consulting
engineers

www.NPceng.com
project no. 1138

Consultant

McKinley / Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING A
PLUMBING FLOOR PLAN

Drawing

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No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision		
Designed By:	HB	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HB
Project Number:	2116	Checked By: JCS
Date:	09/13/22	Reviewed By: HB

A1 ENLARGED PLUMBING PLAN
1/4" = 1'-0"

A8 PLUMBING FLOOR PLAN
1/8" = 1'-0"



2/21/2023 8:29:41 AM

- ### KEYNOTES #
- 1 4" SEWER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 2 2" COLD WATER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 3 MEDIUM PRESSURE GAS CONNECTION FOR BUILDING. SEE SHEET SD/P101 FOR CONTINUATION.
 - 4 3/4" CW DN TO EXTERIOR HOSE BIBB AT +1'-6" AFF.
 - 5 3/4" CW UP THRU ROOF TO HOSE BIBB. SEE SHEET B/M301 FOR CONTINUATION.
 - 6 SHOCK ABSORBER. (TYP.)
 - 7 GAS SHUT-OFF VALVE SIGN MOUNTED ON WALL. SEE DETAIL A14 ON SHEET X/P800.
 - 8 BUILDING GAS SHUT-OFF VALVE & GAS REGULATOR ABOVE GRADE IN LOCKABLE CAGE. SEE DETAIL E14 ON SHEET X/P800 FOR PIPING INSTALLATION DETAIL.
 - 9 ROOF & OVERFLOW DRAIN DN THRU ROOF. SEE SHEET B/P301 FOR CONTINUATION.
 - 10 CONDENSATE DRAIN DN IN WALL. TERMINATE IN MOP SINK W/ 90° ELL DN @ +2" ABV. SINK RIM.
 - 11 CONDENSATE DRAIN PIPING DN IN WALL. CONNECT TO SINK TAILPIECE PER DETAIL A11 ON SHEET X/P800.
 - 12 2" S, 1-1/2" V & 3/4" CW DN TO CLASSROOM SINK.
 - 13 RAINWATER LEADER DN IN EXTERIOR WALL AND CONNECT TO STORM DRAIN BELOW GRADE. PROVIDE 2-WAY SURFACE CLEANOUT PER DETAIL N11 ON SHEET X/P800. SEE CIVIL FOR CONTINUATION.
 - 14 OVERFLOW DRAIN TO DAYLIGHT AT EXTERIOR WALL W/ DOWNSPOUT NOZZLE. DS-1. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
 - 15 GAS UP THRU ROOF TO MECHANICAL UNIT. SEE SHEET B/P301 FOR CONTINUATION.
 - 16 CD DN THRU ROOF FROM MECHANICAL UNIT. SEE SHEET B/P301 FOR CONTINUATION.
 - 17 CONDENSATE DRAIN CONNECTION AT INDOOR UNIT PER DETAIL E11 ON SHEET X/P800.
 - 18 3/4" CD FROM MECHANICAL EQUIPMENT DN WALL TO DRYWELL PER DETAIL E14 ON SHEET X/P801.
 - 19 PROTECTIVE DRAIN PAN TO BE PLACED DIRECTLY BELOW OD/RWL PIPING IN ATTIC SPACE. REFER TO DETAIL J14 ON SHEET X/P801. 3/4" DRAIN LINE DN IN WALL TO DAYLIGHT 12" ABV FINISHED GRADE.

GENERAL NOTES

A. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.

General Notes

Consultant

McKinley/Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING B
PLUMBING FLOOR PLAN

Drawing



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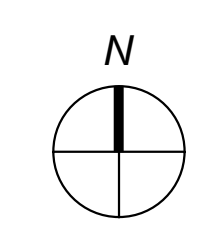
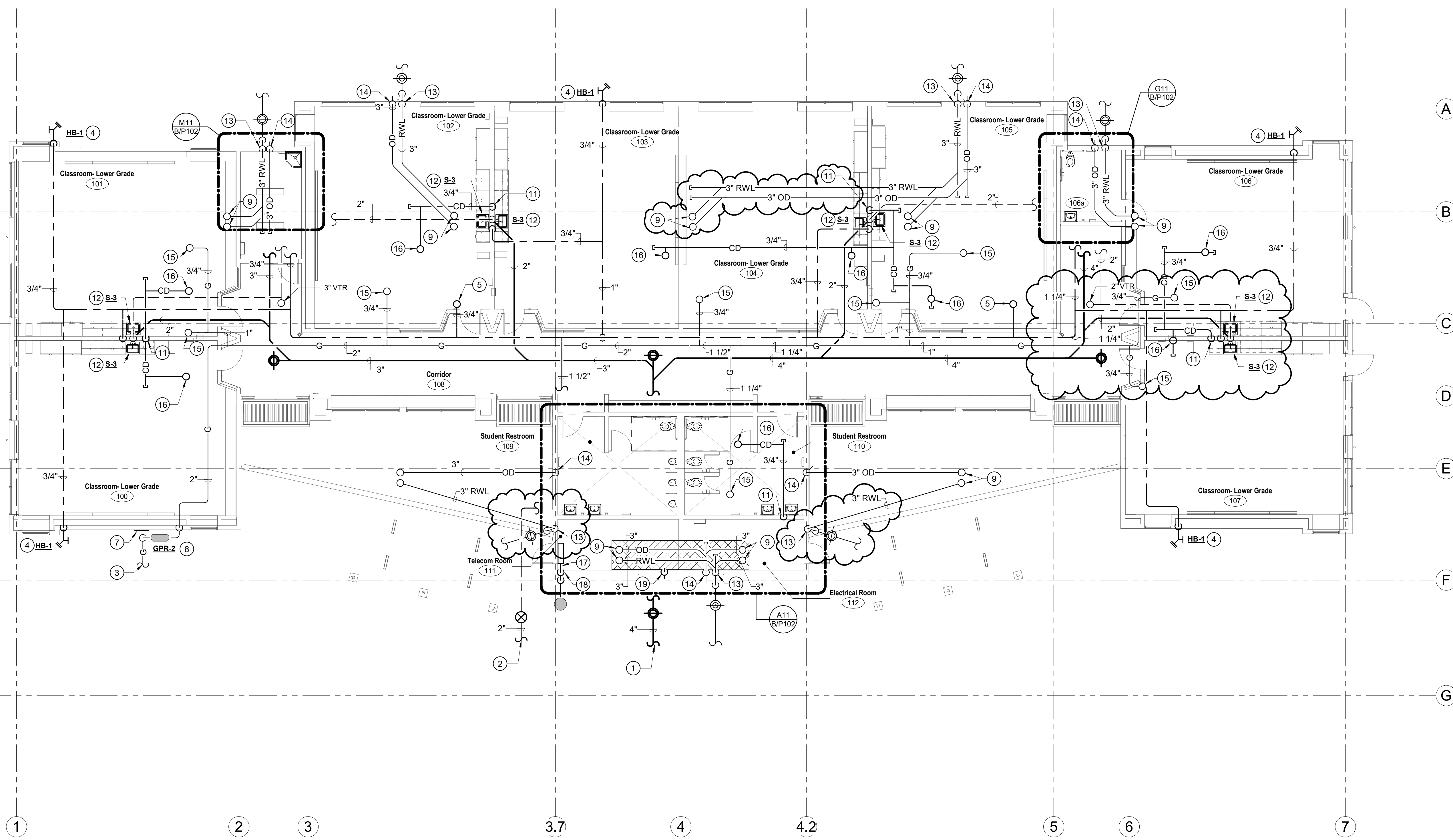
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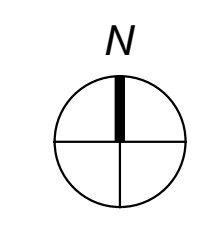
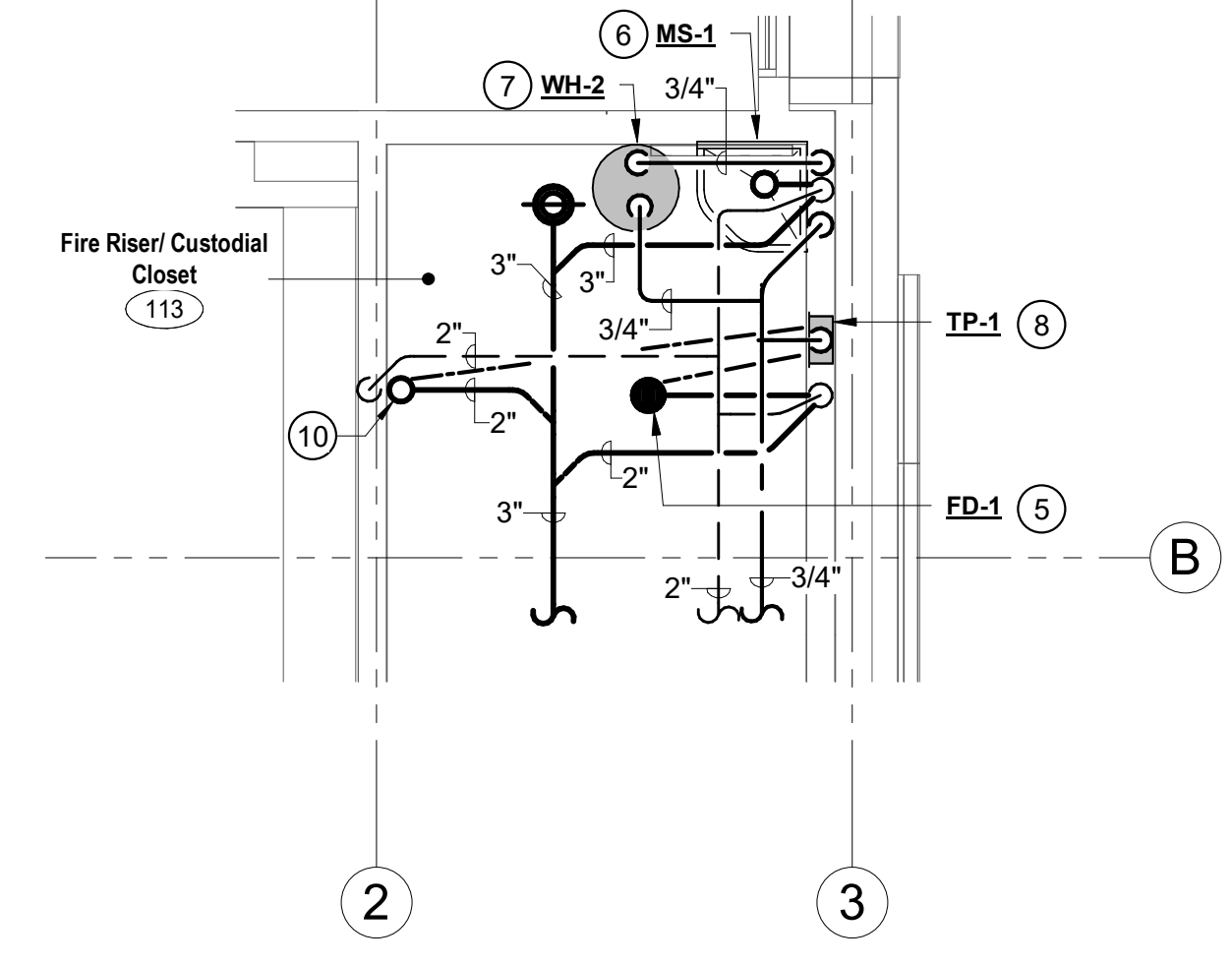


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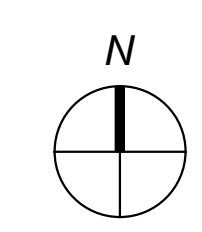
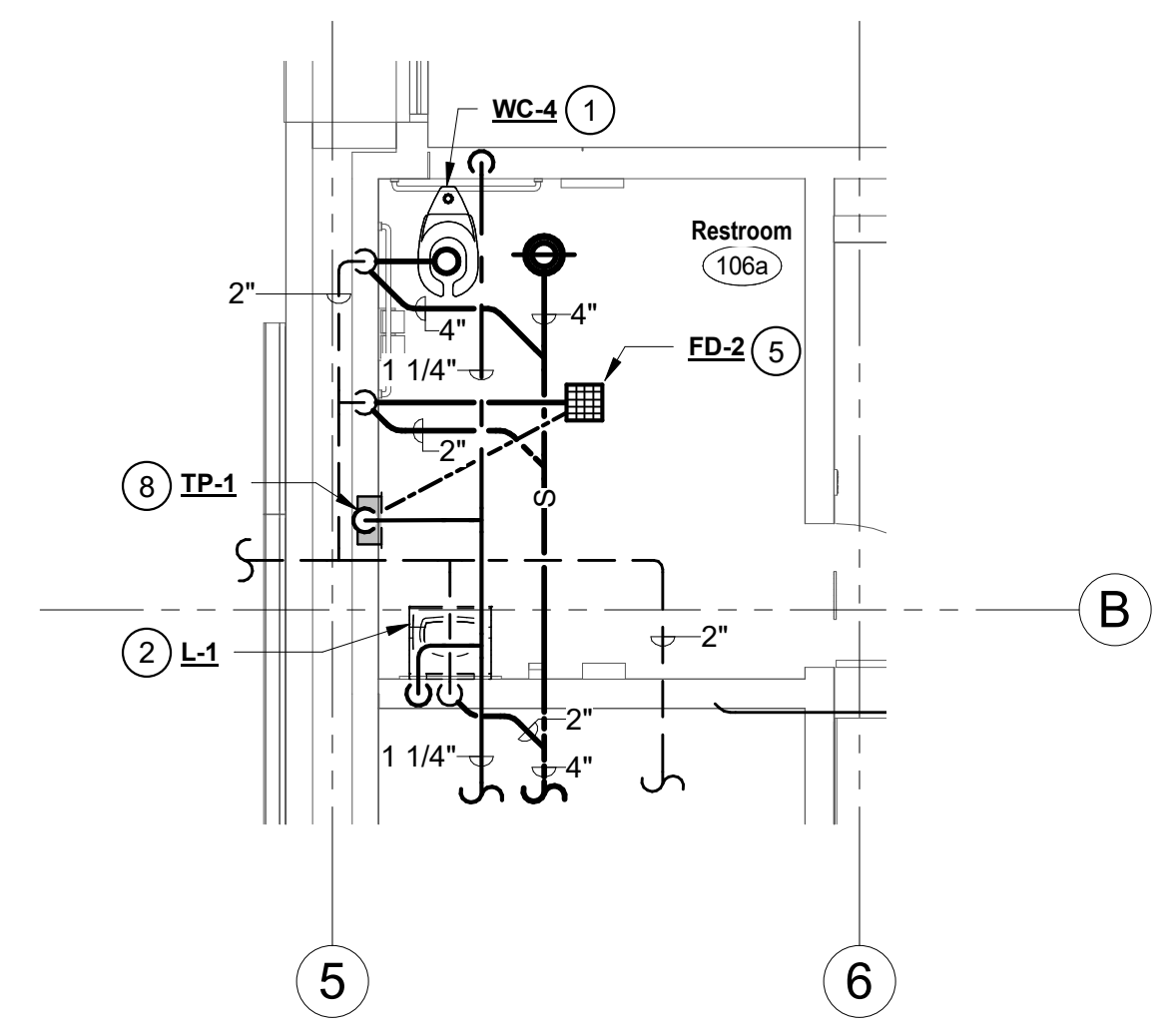
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2	Addendum #2	02/24/23
Revision		
Designed By:	HB	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HB
Project Number:	2116	Checked By: JCS
Date:	09/13/22	Reviewed By: HB

B/P101

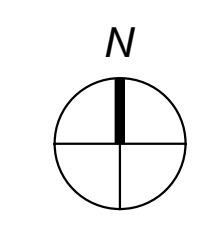
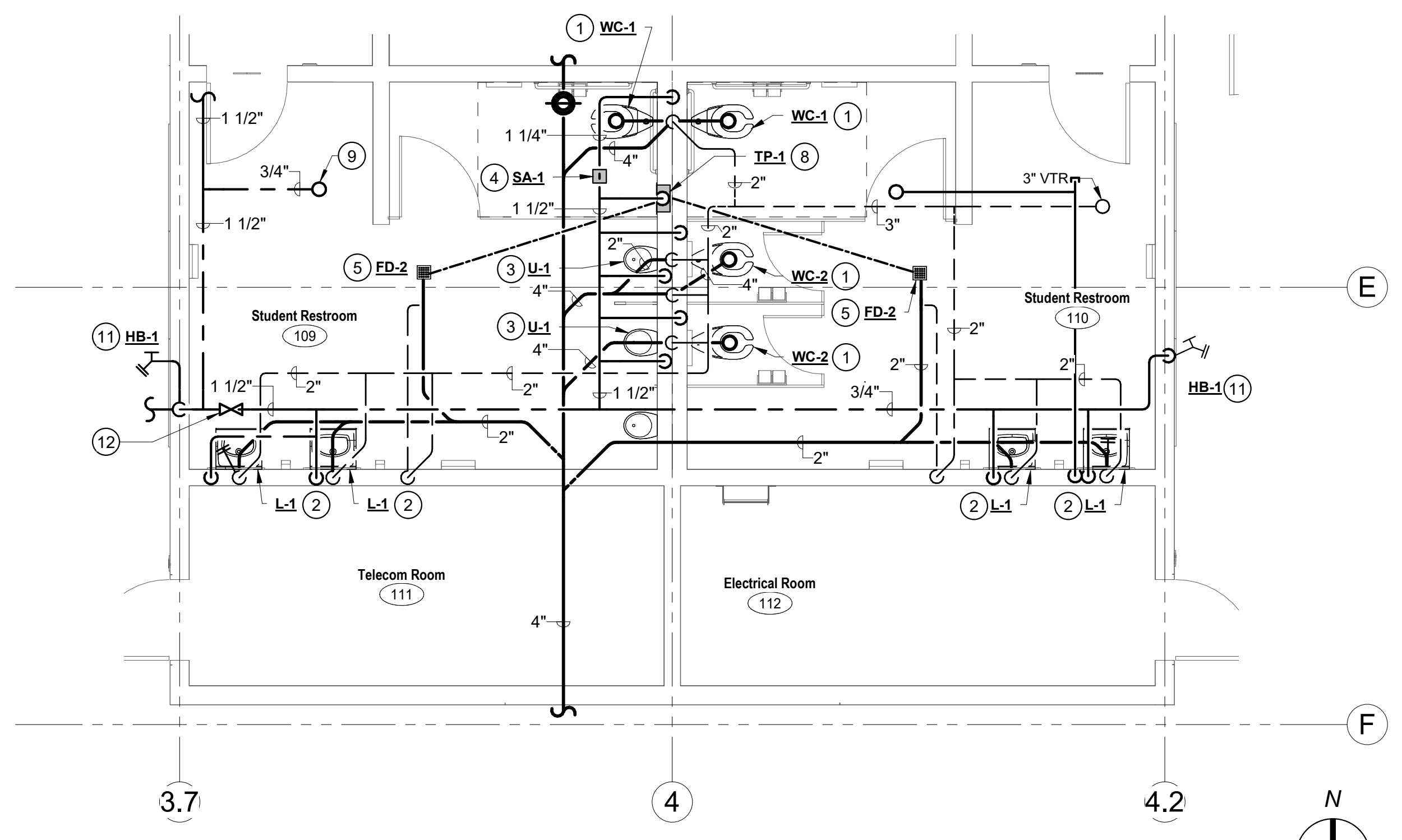




M11
ENLARGED PLUMBING PLAN
1/4" = 1'-0"



G11
ENLARGED PLUMBING PLAN
1/4" = 1'-0"



A11
ENLARGED PLUMBING FLOOR PLAN
1/4" = 1'-0"

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

- KEYNOTES** #
- 1 4" S, 2" V, 1" CW DN TO WATER CLOSET.
 - 2 2" S, 1-1/2" V & 3/4" CW DN FOR LAVATORY.
 - 3 3" S, 1-1/2" V, 3/4" CW DN FOR URINAL.
 - 4 SHOCKER ABSORBER, (TYP)
 - 5 2" S W/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN/FLOOR SINK.
 - 6 3" S W/ TRAP, 1-1/2" V, 3/4" CW & 3/4" HW DN FOR MOP SINK.
 - 7 WATER HEATER ON PLATFORM. SEE DETAIL J7 ON SHEET X/P800.
 - 8 1/2" CW DN TO TRAP PRIMER IN WALL WITH ACCESS PANEL.
 - 9 3/4" CW UP TO HOSE BIBB ON ROOF.
 - 10 HUB DRAIN PER DETAIL N1 ON SHEET X/P800.
 - 11 3/4" CW DN TO EXTERIOR HOSE BIBB AT +1'-6" AFF.
 - 12 CW ISOLATION VALVE ABOVE CEILING. COORDINATE VERIFY AND COORDINATE LOCATION WITH CEILING ACCESS PANEL.

GENERAL NOTES

A. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1138

Consultant

McKinley/Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING B
ENLARGED PLUMBING PLANS

Drawing

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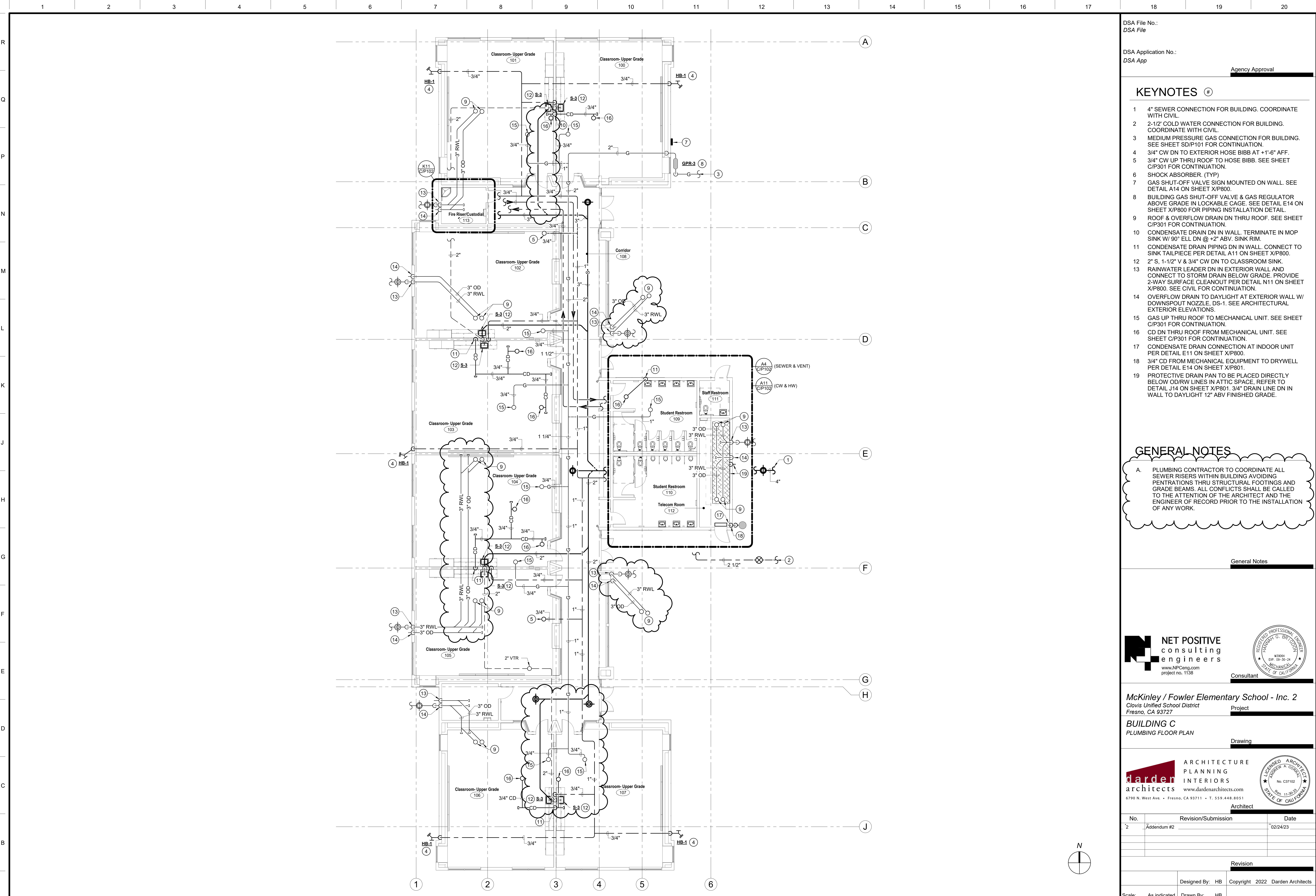
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No.	Revision/Submission	Date
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Checked By: JCS
Date: 09/13/22
Reviewed By: HB

B/P102



DSA File No.:
 DSA File

DSA Application No.:
 DSA App



Agency Approval

- ### KEYNOTES #
- 1 4" SEWER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 2 2-1/2" COLD WATER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 3 MEDIUM PRESSURE GAS CONNECTION FOR BUILDING. SEE SHEET SD/P101 FOR CONTINUATION.
 - 4 3/4" CW DN TO EXTERIOR HOSE BIBB AT +1'-6" AFF.
 - 5 3/4" CW UP THRU ROOF TO EXTERIOR HOSE BIBB. SEE SHEET C/P301 FOR CONTINUATION.
 - 6 SHOCK ABSORBER. (TYP)
 - 7 GAS SHUT-OFF VALVE SIGN MOUNTED ON WALL. SEE DETAIL A14 ON SHEET X/P800.
 - 8 BUILDING GAS SHUT-OFF VALVE & GAS REGULATOR ABOVE GRADE IN LOCKABLE CAGE. SEE DETAIL E14 ON SHEET X/P800 FOR PIPING INSTALLATION DETAIL.
 - 9 ROOF & OVERFLOW DRAIN DN THRU ROOF. SEE SHEET C/P301 FOR CONTINUATION.
 - 10 CONDENSATE DRAIN DN IN WALL. TERMINATE IN MOP SINK W/ 90° ELL DN @ +2" ABV. SINK RIM.
 - 11 CONDENSATE DRAIN PIPING DN IN WALL. CONNECT TO SINK TAILPIECE PER DETAIL A11 ON SHEET X/P800.
 - 12 2" S, 1-1/2" V & 3/4" CW DN TO CLASSROOM SINK.
 - 13 RAINWATER LEADER DN IN EXTERIOR WALL AND CONNECT TO STORM DRAIN BELOW GRADE. PROVIDE 2-WAY SURFACE CLEANOUT PER DETAIL N11 ON SHEET X/P800. SEE CIVIL FOR CONTINUATION.
 - 14 OVERFLOW DRAIN TO DAYLIGHT AT EXTERIOR WALL W/ DOWNSPOUT NOZZLE, DS-1. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
 - 15 GAS UP THRU ROOF TO MECHANICAL UNIT. SEE SHEET C/P301 FOR CONTINUATION.
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General Notes

Consultant

McKinley / Fowler Elementary School - Inc. 2
 Clovis Unified School District
 Fresno, CA 93727

Project

BUILDING C
 PLUMBING FLOOR PLAN

Drawing




Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23
Revision		
Designed By:	HB	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HB
Project Number:	2116	Checked By: JCS
Date:	09/13/22	Reviewed By: HB

A1 PLUMBING FLOOR PLAN
 1/8" = 1'-0"

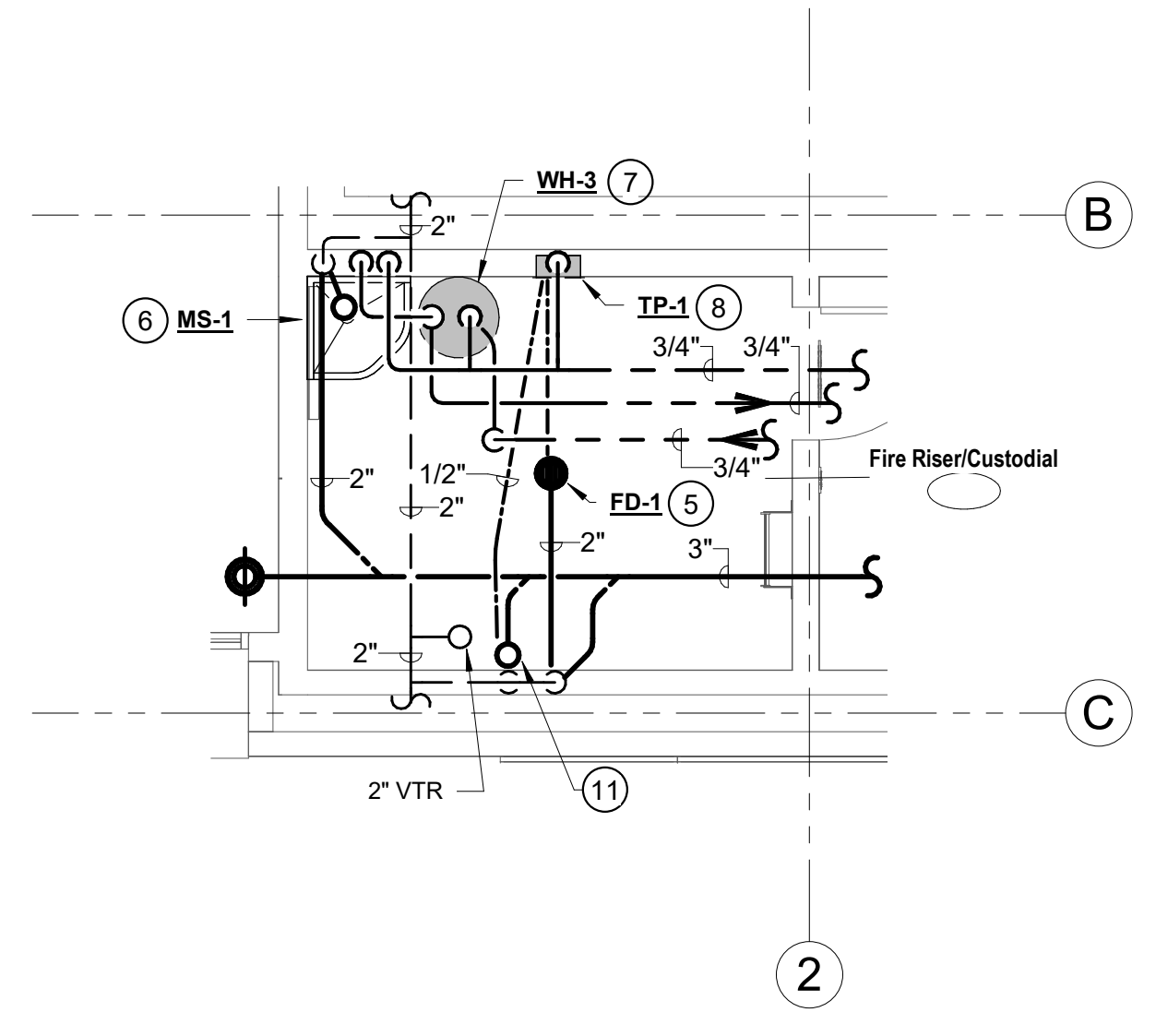
DSA File No.:
DSA File

DSA Application No.:
DSA App

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KEYNOTES #

- 1 4" S, 2" V, 1" CW DN TO WATER CLOSET.
- 2 2" S, 1-1/2" V & 3/4" CW DN FOR LAVATORY.
- 3 3" S, 1-1/2" V, 3/4" CW DN FOR URINAL.
- 4 SHOCK ABSORBER, (TYP)
- 5 2" S W/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN/FLOOR SINK.
- 6 3" S W/ TRAP, 1-1/2" V, 3/4" CW & 3/4" HW DN FOR MOP SINK.
- 7 WATER HEATER ON PLATFORM. SEE DETAIL J7 ON SHEET X/P800.
- 8 1/2" CW DN TO TRAP PRIMER IN WALL WITH ACCESS PANEL.
- 9 3/4" CW DN TO EXTERIOR HOSE BIBB AT +1'-6" AFF.
- 10 3/4" CW UP THRU ROOF TO HOSE BIBB. SEE SHEET C/P301 FOR CONTINUATION.
- 11 HUB DRAIN PER DETAIL N1 ON SHEET X/800.
- 12 CW ISOLATION VALVE ABOVE CEILING. COORDINATE AND VERIFY LOCATION WITH CEILING ACCESS PANEL.
- 13 2" S, 1-1/2" V & 3/4" CW/HW DN FOR LAVATORY IN FACULTY RESTROOM.



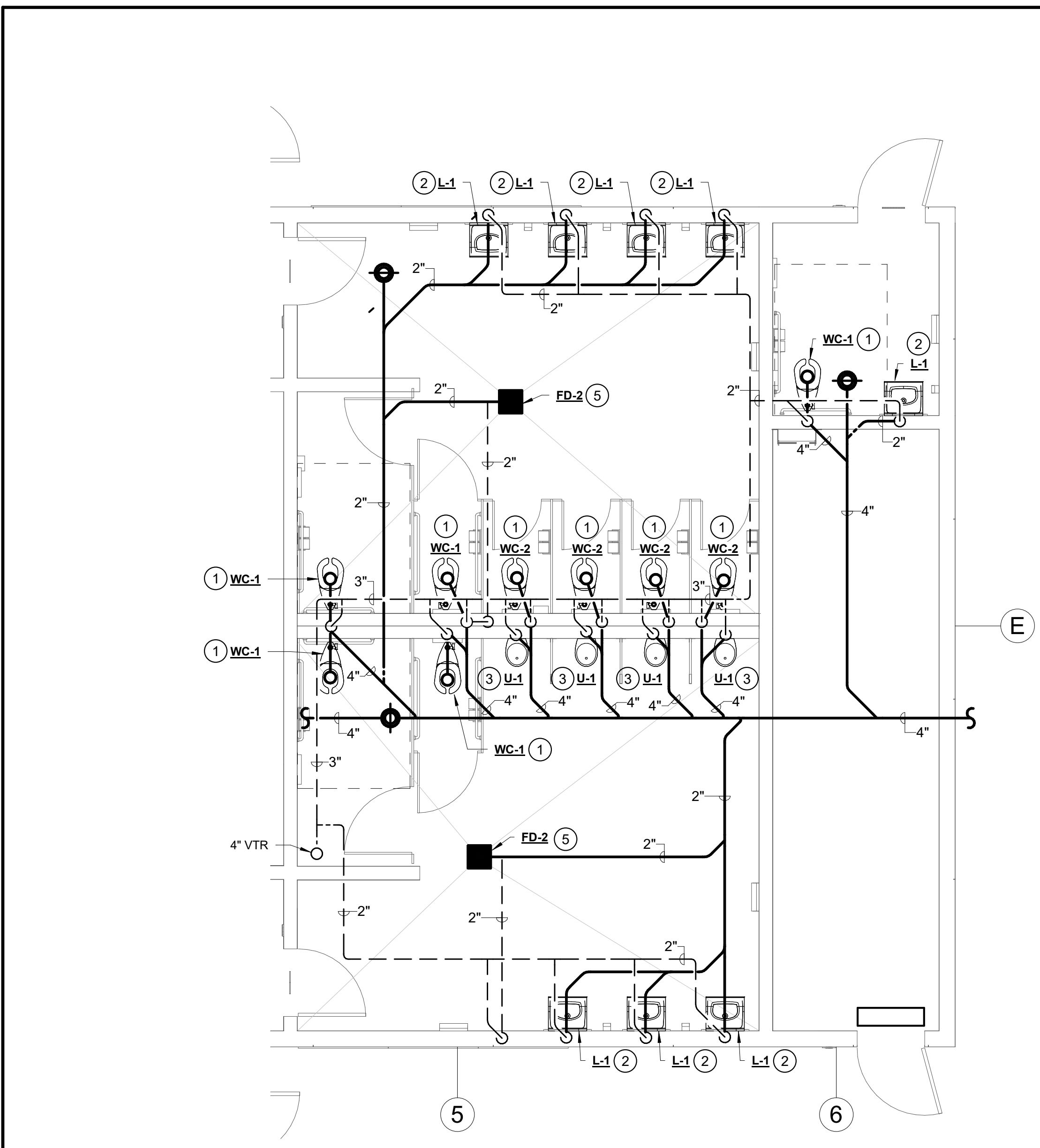
K11
1/4" = 1'-0"

ENLARGED PLUMBING PLAN

GENERAL NOTES

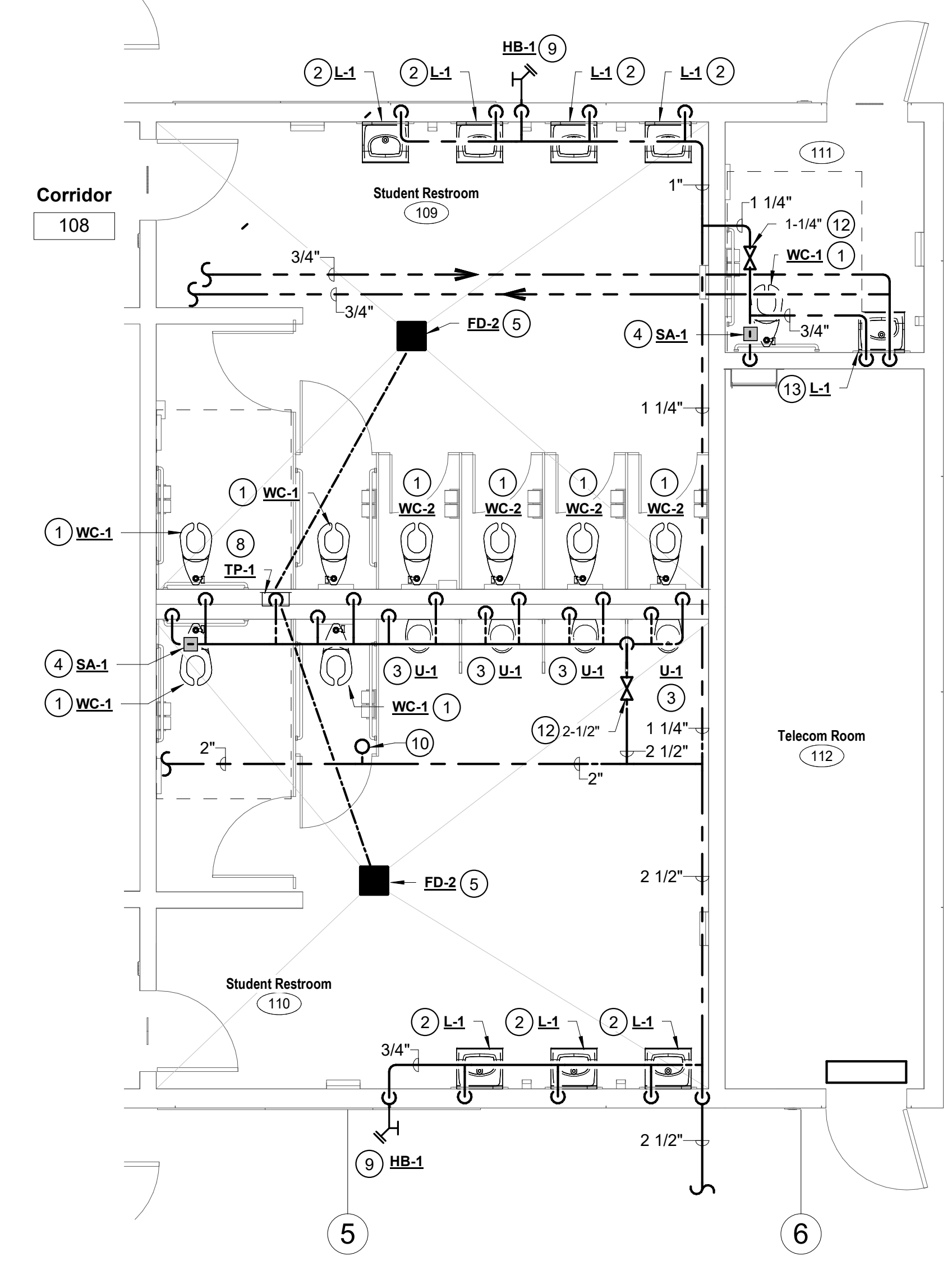
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General Notes



A4
1/4" = 1'-0"

ENLARGED PLUMBING PLAN - RESTROOMS - S & V



A11
1/4" = 1'-0"

ENLARGED PLUMBING PLAN - RESTROOMS - CW & HW

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engineers
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Consultant

McKinley / Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING C
ENLARGED PLUMBING FLOOR PLANS

Drawing

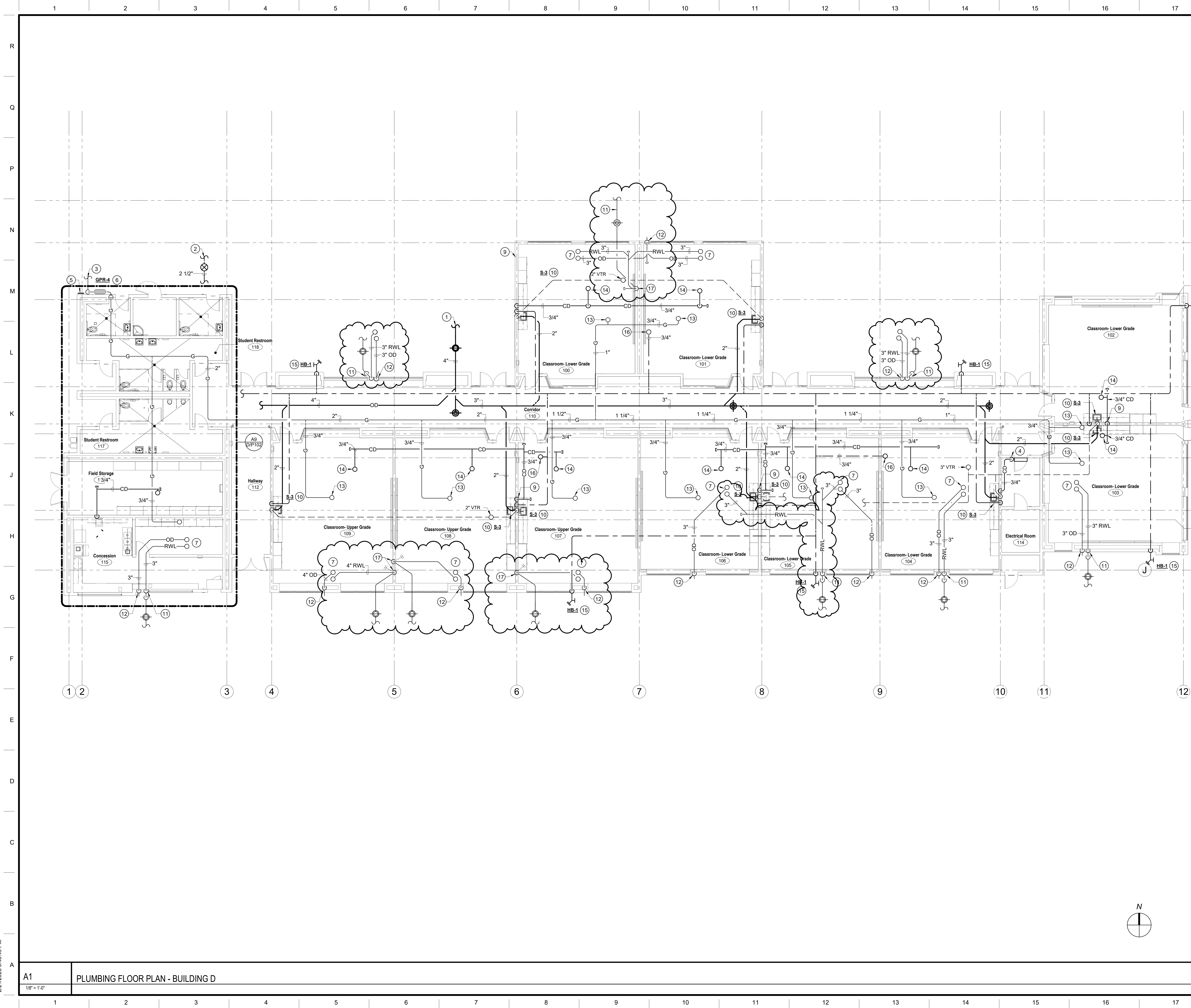
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Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision	
Designed By:	HB
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Project Number:	2116
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Date:	09/13/22
Reviewed By:	HB

C/P102



DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

- ### KEYNOTES #
- 1 4" SEWER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 2 2-1/2" COLD WATER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 3 GAS CONNECTION FOR BUILDING. SEE SHEET SD/P101 FOR CONTINUATION.
 - 4 CONDENSATE DRAIN CONNECTION AT INDOOR UNIT PER DETAIL E11 ON SHEET X/P800.
 - 5 GAS SHUT-OFF VALVE SIGN MOUNTED ON WALL. SEE DETAIL A14 ON SHEET X/P800.
 - 6 BUILDING GAS SHUT-OFF VALVE & GAS REGULATOR ABOVE GRADE IN LOCKABLE CAGE. SEE DETAIL E14 ON SHEET X/P800 FOR PIPING INSTALLATION DETAIL.
 - 7 ROOF & OVERFLOW DRAIN DN THRU ROOF. SEE SHEET D/P301 FOR CONTINUATION.
 - 8 CONDENSATE DRAIN DN IN WALL. TERMINATE IN MOP SINK W/ 90° ELL DN @ +2" ABV. SINK RIM.
 - 9 CONDENSATE DRAIN PIPING DN IN WALL. CONNECT TO SINK TAILPIECE PER DETAIL A11 ON SHEET X/P800.
 - 10 2" S, 1-1/2" V & 3/4" CW DN TO CLASSROOM SINK. RAINWATER LEADER DN IN EXTERIOR WALL AND CONNECT TO STORM DRAIN BELOW GRADE. PROVIDE 2-WAY SURFACE CLEANOUT PER DETAIL N11 ON SHEET X/P800. SEE CIVIL FOR CONTINUATION.
 - 11 OVERFLOW DRAIN TO DAYLIGHT AT EXTERIOR WALL W/ DOWNSPOUT NOZZLE. DS-1. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
 - 12 GAS UP THRU ROOF TO MECHANICAL UNIT. SEE SHEET D/P301 FOR CONTINUATION.
 - 13 CD DN THRU ROOF FROM MECHANICAL UNIT. SEE SHEET D/P301 FOR CONTINUATION.
 - 14 3/4" CW DN TO EXTERIOR HOSE BIBB AT +1'-6" AFF.
 - 15 3/4" CW UP THRU ROOF TO HOSE BIBB. SEE SHEET D/P301 FOR CONTINUATION.
 - 16 RAINWATER LEADER DN IN INTERIOR WALL WITH WALL CLEANOUT DN TO BELOW GRADE TO CONNECT TO STORM DRAIN. PROVIDE 2-WAY SURFACE CLEANOUT PER DETAIL N11 ON SHEET X/P800. SEE CIVIL FOR CONTINUATION.
 - 17

GENERAL NOTES

A. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.

General Notes

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consulting
engineers
www.NPCeng.com
project no. 1138

Consultant

McKinley/Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING D
PLUMBING FLOOR PLAN

Drawing

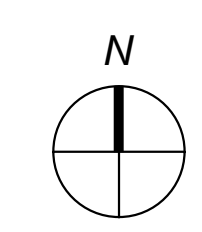
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No.	Revision/Submission	Date
2	Addendum #2	02/24/23
Revision		
Designed By:	HB	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HB
Project Number:	2116	Checked By: JCS
Date:	02/06/2023	Reviewed By: HB

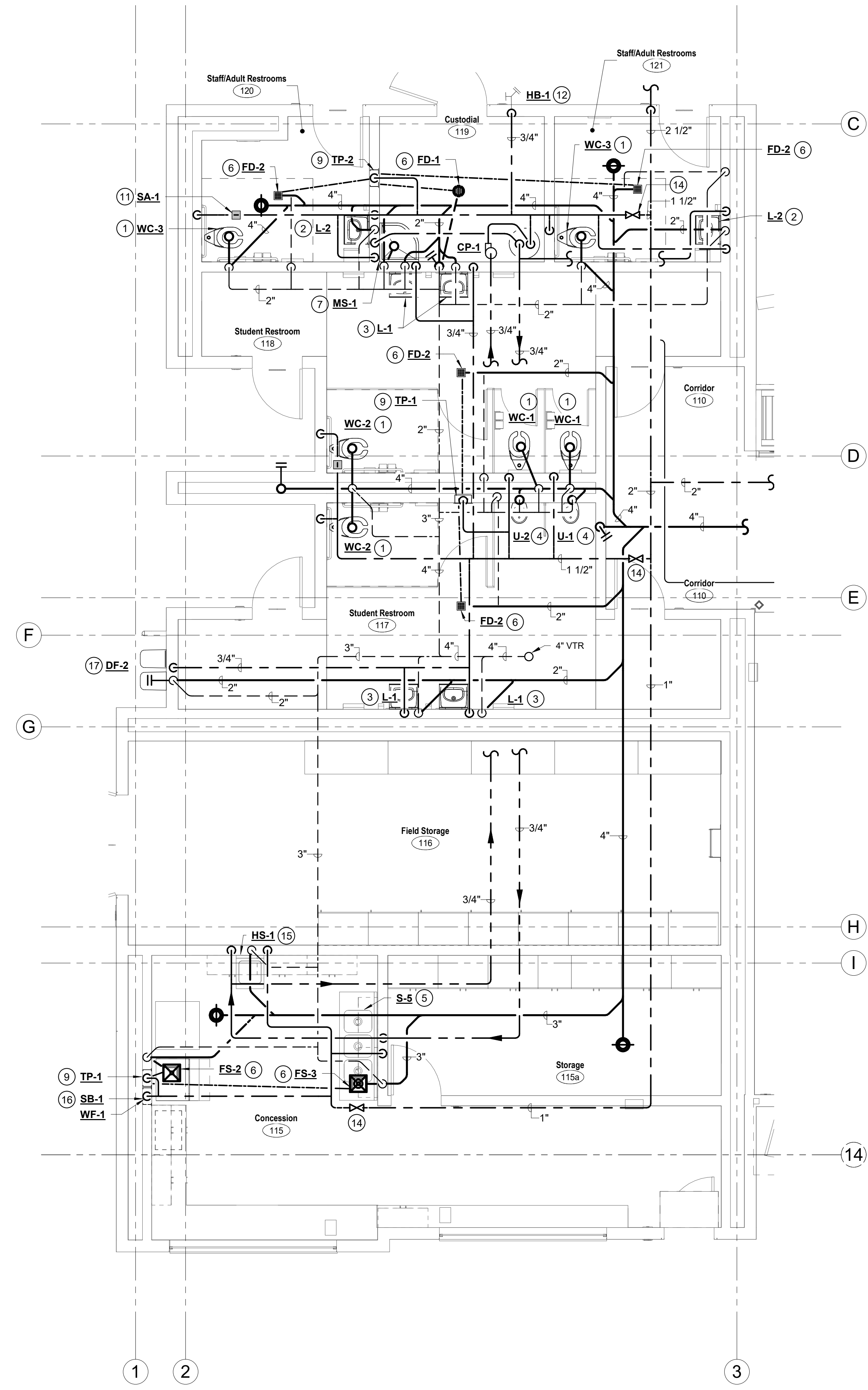
A1 PLUMBING FLOOR PLAN - BUILDING D

1/8" = 1'-0"



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DSA File
DSA Application No.:
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KEYNOTES

- 1 4" S, 2" V, 1" CW DN TO WATER CLOSET.
- 2 2" S, 1-1/2" V, 3/4" CW & 3/4" HW DN FOR STAFF LAVATORY.
- 3 2" S, 1-1/2" V & 3/4" CW DN FOR STUDENT LAVATORY.
- 4 3" S, 1-1/2" V, 3/4" CW DN FOR URINAL.
- 5 2" S, 1-1/2" V, 3/4" CW & 3/4" HW DN TO SINK.
- 6 2" S W/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN/FLOOR SINK.
- 7 3" S W/ TRAP, 1-1/2" V, 3/4" CW & 3/4" HW DN FOR MOP SINK.
- 8 WATER HEATER ON PLATFORM. SEE DETAIL J7 ON SHEET X/P800.
- 9 1/2" CW DN TO TRAP PRIMER IN WALL WITH ACCESS PANEL.
- 10 1" CW UP THRU ROOF TO EVAPORATIVE COOLER. SEE SHEET D/P301 FOR CONTINUATION.
- 11 SHOCK ABSORBER. (TYP)
- 12 3/4" CW DN TO EXTERIOR HOSE BIBB AT +1'-6" AFF.
- 13 3/4" CW UP THRU ROOF TO HOSE BIBB. SEE SHEET D/M301 FOR CONTINUATION.
- 14 CW ISOLATION VALVE ABOVE CEILING. COORDINATE VERIFY AND COORDINATE LOCATION WITH CEILING ACCESS PANEL.
- 15 2" S, 1-1/2" V, 3/4" CW & 3/4" HW DN TO HANDWASH SINK.
- 16 3/4" CW DN TO WATER SUPPLY BOX WITH INLINE WATER FILTER FOR ICE MAKER.
- 17 2" S, 1-1/2" V & 3/4" CW DN FOR DRINKING FOUNTAIN.

GENERAL NOTES

A. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1138

REGISTERED PROFESSIONAL ENGINEER
FRANK G. BREYER
No. 83864
Exp. 09-30-24
MECHANICAL
STATE OF CALIFORNIA

Consultant

McKinley/Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

BUILDING D
ENLARGED PLUMBING PLAN
Drawing

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REGISTERED ARCHITECT
ANDREW A. CORREY
No. C37102
Exp. 11-30-20
STATE OF CALIFORNIA

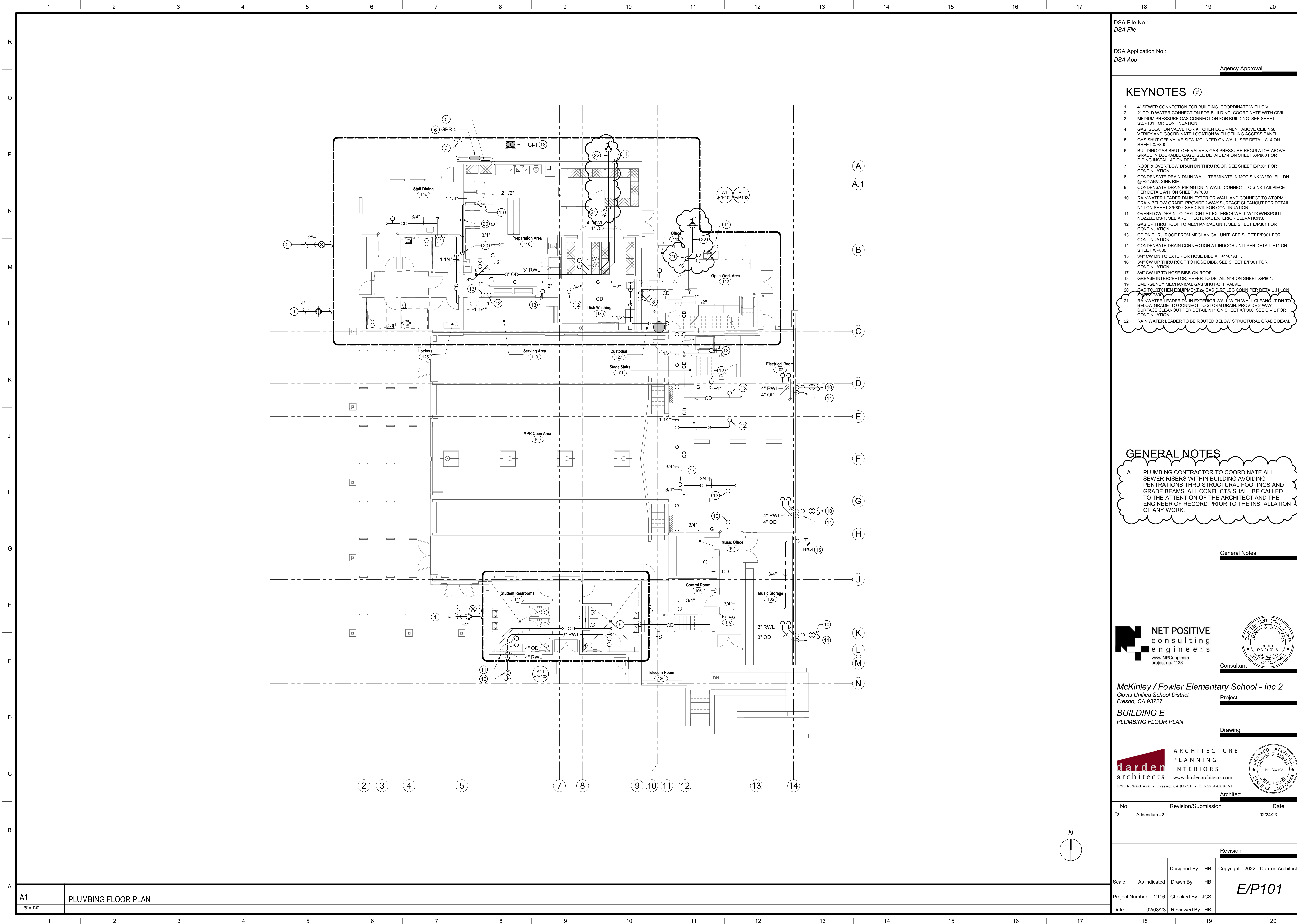
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No.	Revision/Submission	Date
2	Addendum #2	02/24/23
Revision		
Designed By:	HB	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HB
Project Number:	2116	Checked By: JCS
Date:	02/08/2023	Reviewed By: HB

A9
1/4" = 1'-0"
ENLARGED PLUMBING PLAN

D/P102

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DSA File No.:
DSA File

DSA Application No.:
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- ### KEYNOTES #
- 1 4" SEWER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 2 2" COLD WATER CONNECTION FOR BUILDING. COORDINATE WITH CIVIL.
 - 3 MEDIUM PRESSURE GAS CONNECTION FOR BUILDING. SEE SHEET SDIP101 FOR CONTINUATION.
 - 4 GAS ISOLATION VALVE FOR KITCHEN EQUIPMENT ABOVE CEILING. VERIFY AND COORDINATE LOCATION WITH CEILING ACCESS PANEL. GAS SHUT-OFF VALVE SIGN MOUNTED ON WALL. SEE DETAIL A14 ON SHEET X/P800.
 - 5 BUILDING GAS SHUT-OFF VALVE & GAS PRESSURE REGULATOR ABOVE GRADE IN LOCKABLE CAGE. SEE DETAIL E14 ON SHEET X/P800 FOR PIPING INSTALLATION DETAIL.
 - 6 ROOF & OVERFLOW DRAIN DN THRU ROOF. SEE SHEET E/P301 FOR CONTINUATION.
 - 7 CONDENSATE DRAIN DN IN WALL. TERMINATE IN MOP SINK W/ 90° ELL DN @ +2' ABV. SINK RIM.
 - 8 CONDENSATE DRAIN PIPING DN IN WALL. CONNECT TO SINK TAILPIECE PER DETAIL A11 ON SHEET X/P800.
 - 9 RAINWATER LEADER DN IN EXTERIOR WALL AND CONNECT TO STORM DRAIN BELOW GRADE. PROVIDE 2-WAY SURFACE CLEANOUT PER DETAIL N11 ON SHEET X/P800. SEE CIVIL FOR CONTINUATION.
 - 10 OVERFLOW DRAIN TO DAYLIGHT AT EXTERIOR WALL W/ DOWNSPOUT NOZZLE. DS-1. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
 - 11 GAS UP THRU ROOF TO MECHANICAL UNIT. SEE SHEET E/P301 FOR CONTINUATION.
 - 12 CD DN THRU ROOF FROM MECHANICAL UNIT. SEE SHEET E/P301 FOR CONTINUATION.
 - 13 CONDENSATE DRAIN CONNECTION AT INDOOR UNIT PER DETAIL E11 ON SHEET X/P800.
 - 14 3/4" CW DN TO EXTERIOR HOSE BIBB AT +1'-6" AFF.
 - 15 3/4" CW UP THRU ROOF TO HOSE BIBB. SEE SHEET E/P301 FOR CONTINUATION.
 - 16 3/4" CW UP TO HOSE BIBB ON ROOF.
 - 17 GREASE INTERCEPTOR. REFER TO DETAIL N14 ON SHEET X/P801.
 - 18 EMERGENCY MECHANICAL GAS SHUT-OFF VALVE.
 - 19 GAS TO KITCHEN EQUIPMENT W/ GAS SHUT-OFF VALVE PER DETAIL J11 ON SHEET X/P800.
 - 20 RAINWATER LEADER DN IN EXTERIOR WALL WITH WALL CLEANOUT DN TO BELOW GRADE. TO CONNECT TO STORM DRAIN. PROVIDE 2-WAY SURFACE CLEANOUT PER DETAIL N11 ON SHEET X/P800. SEE CIVIL FOR CONTINUATION.
 - 21 RAINWATER LEADER TO BE ROUTED BELOW STRUCTURAL GRADE BEAM.

GENERAL NOTES

A. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.

General Notes

Consultant

McKinley / Fowler Elementary School - Inc 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING E
PLUMBING FLOOR PLAN

Drawing



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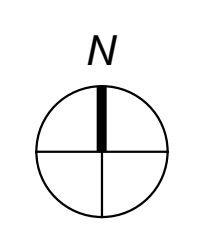


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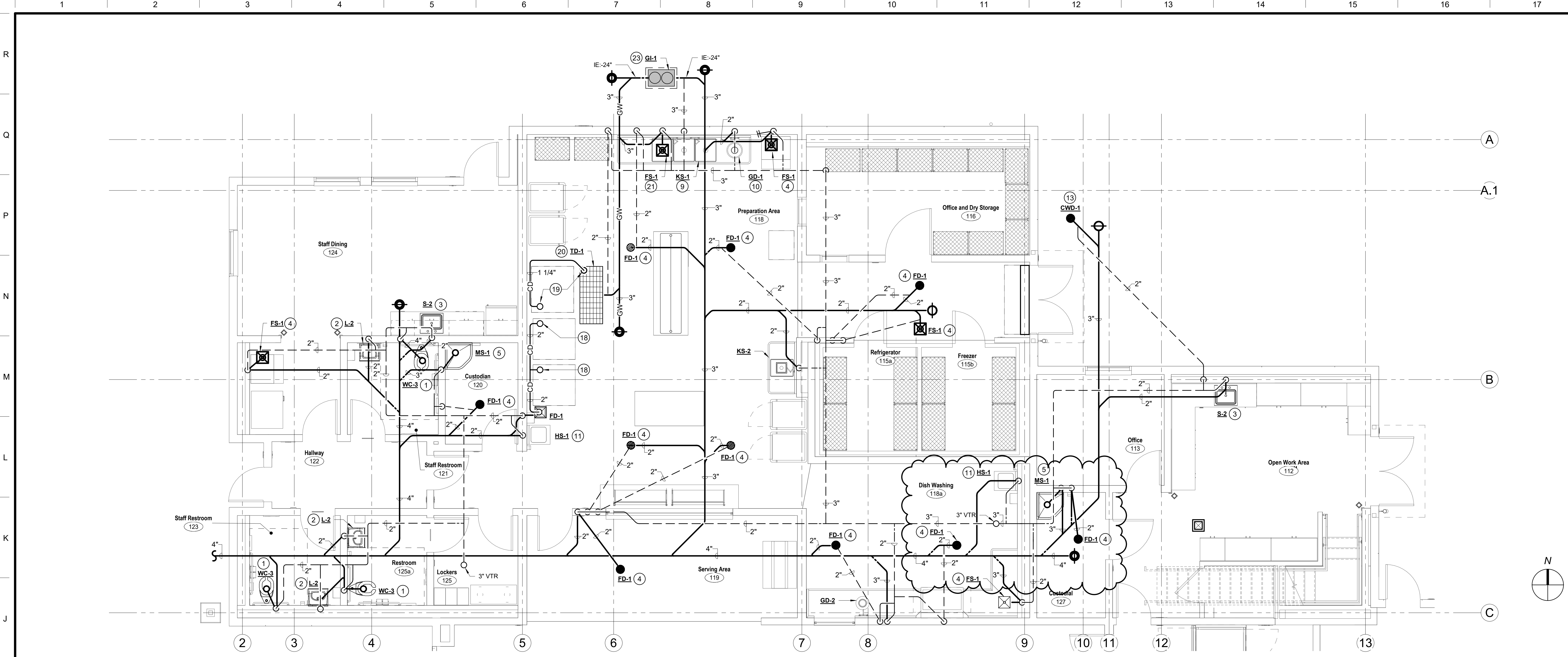
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2	Addendum #2	02/24/23
Revision		
Designed By:	HB	Copyright 2022 Darden Architects
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Project Number:	2116	Checked By: JCS
Date:	02/08/23	Reviewed By: HB

A1 PLUMBING FLOOR PLAN

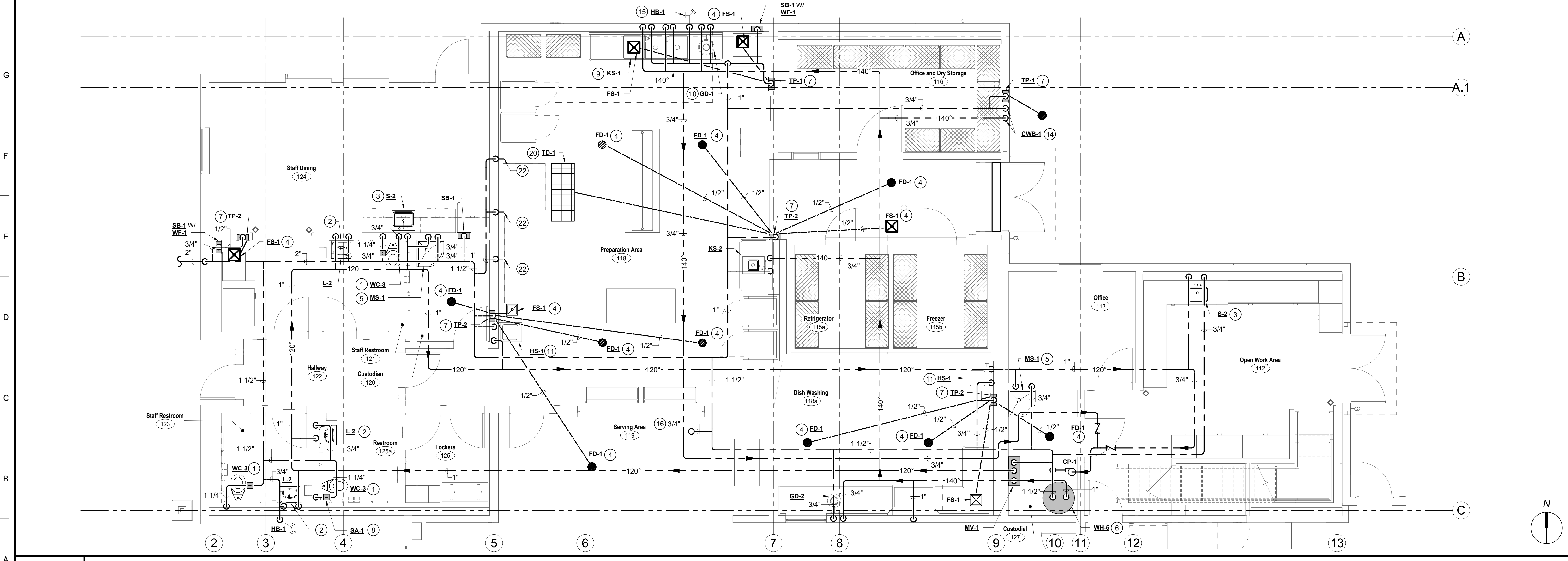
1/8" = 1'-0"



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H1 ENLARGED PLUMBING PLAN - KITCHEN - S & V
1/4" = 1'-0"



A1 ENLARGED PLUMBING PLAN - KITCHEN - CW & HW
1/4" = 1'-0"

DSA File No.:
DSA File

DSA Application No.:
DSA App

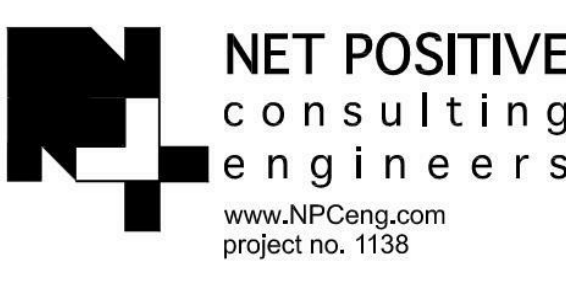

Agency Approval

- ### KEYNOTES #
- 1 4" S, 2" V, 1" CW DN TO WATER CLOSET.
 - 2 2" S, 1-1/2" V, 3/4" CW & 3/4" HW DN FOR STAFF LAVATORY.
 - 3 2" S, 1-1/2" V, 3/4" CW & 3/4" HW DN TO SINK.
 - 4 2" S W/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN/FLOOR SINK.
 - 5 3" S W/ TRAP, 1-1/2" V, 3/4" CW & 3/4" HW DN FOR MOP SINK.
 - 6 WATER HEATER ON PLATFORM. SEE DETAIL A4 ON SHEET A4/P800.
 - 7 1/2" CW DN TO TRAP PRIMER IN WALL WITH ACCESS PANEL.
 - 8 SHOCK ABSORBER (TYP)
 - 9 (2) 3/4" CW & (2) 3/4" HW DN IN WALL TO (2) SINK FAUCETS FOR THREE COMPARTMENT SINK. COMBINE (2) SINK DRAINS BELOW AND ROUTE TO FLOOR SINK. TERMINATE WITH 2" AIR GAP.
 - 10 GARBAGE DISPOSER BELOW SINK. PROVIDE 2" TRAP ARM FROM DISPOSER OUTLET BACK TO 2" SEWER CONNECTION WITHIN WALL.
 - 11 2" S, 1-1/2" V, 3/4" CW & 3/4" HW TO HANDWASH SINK.
 - 12 2" S, 1-1/2" V, 3/4" CW & 3/4" HW TO KITCHEN SINK.
 - 13 3" S & 2" V TO EXTERIOR CAN WASH DRAIN.
 - 14 3/4" CW & 3/4" HW DN TO CAN WASH FAUCET BOX ON EXTERIOR WALL.
 - 15 3/4" CW DN TO EXTERIOR HOSE BIBB AT +1'-6" AFF.
 - 16 3/4" CW UP THRU ROOF TO HOSE BIBB. SEE SHEET EP301 FOR CONTINUATION.
 - 17 CW DN TO SUPPLY BOX FOR STEAM FOOD WARMER CONN.
 - 18 2" CONDENSATE FROM KITCHEN EQUIPMENT TO TERMINATE AT FLOOR SINK W/ AIR GAP.
 - 19 1-1/4" DRAIN FROM KITCHEN EQUIPMENT TO TERMINATE AT TROUGH DRAIN W/ 1" AIR GAP.
 - 20 3" GREASE WASTE W/ TRAP, 2" V & 1/2" TRAP PRIMER CONNECTION FOR TROUGH DRAIN.
 - 21 3" GREASE WASTE W/ TRAP, 2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR SINK.
 - 22 3/4" CW DN TO ANGLE STOP FOR KITCHEN EQUIPMENT.
 - 23 GREASE INTERCEPTOR, REFER TO DETAIL N14 ON SHEET XP801.

GENERAL NOTES

A. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.

General Notes

Consultant

McKinley / Fowler Elementary School - Inc 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING E
ENLARGED PLUMBING PLANS - KITCHEN

Drawing




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No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision		
Designed By:	HB	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HB
Project Number:	2116	Checked By: JCS
Date:	02/08/23	Reviewed By: HB

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DSA File

DSA Application No.:
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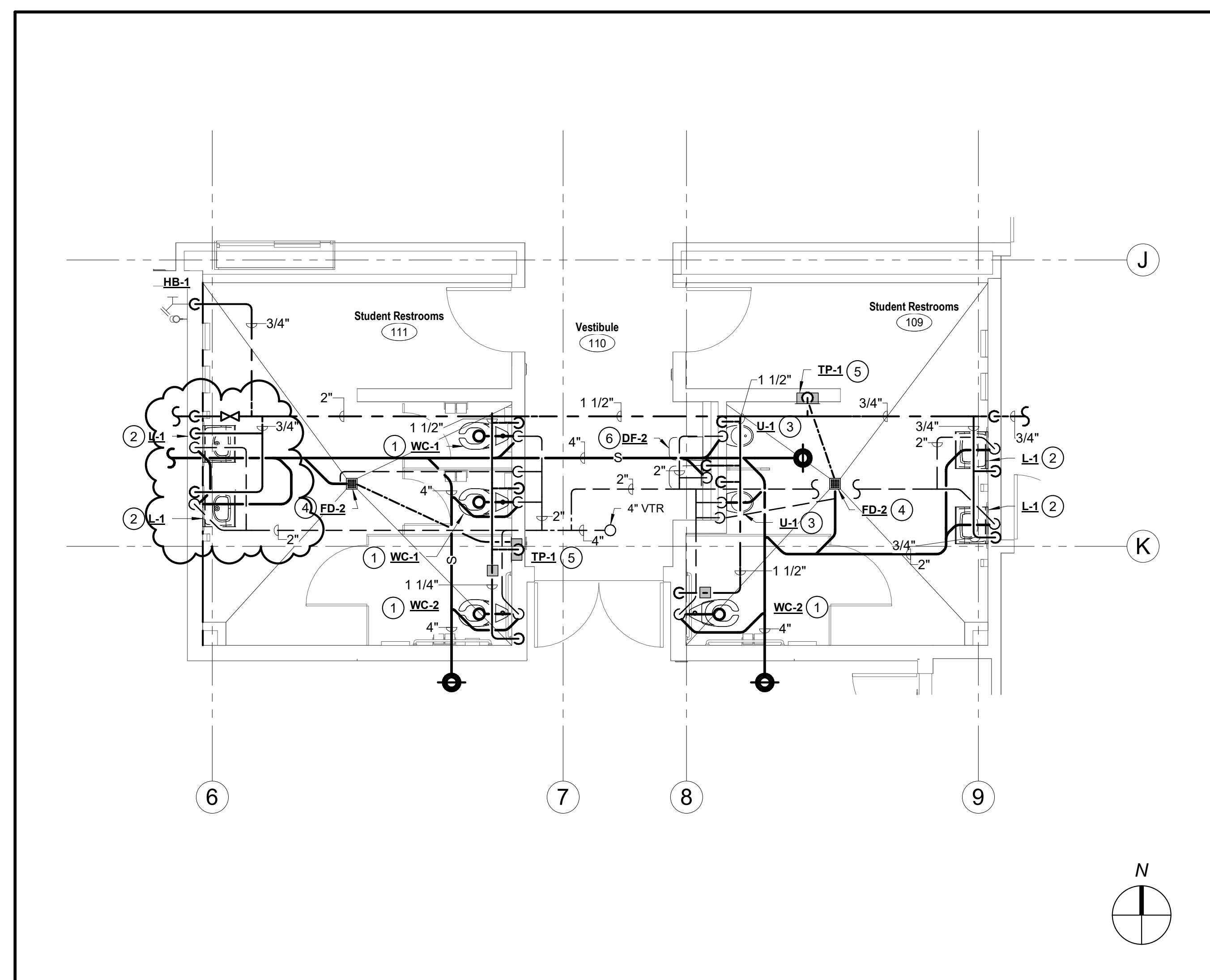
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KEYNOTES #

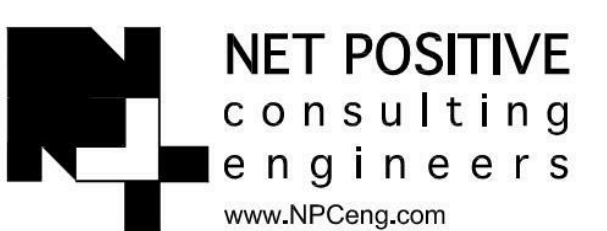

- 1 4" S, 2" V, 1" CW DN TO WATER CLOSET.
- 2 2" S, 1-1/2" V & 3/4" CW DN FOR STUDENT LAVATORY
- 3 3" S, 1-1/2" V, 3/4" CW DN FOR URINAL
- 4 2" S W/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN/FLOOR SINK
- 5 1/2" CW DN TO TRAP PRIMER IN WALL WITH ACCESS PANEL.
- 6 2" S, 1-1/2" V & 3/4" CW DN TO DRINKING FOUNTAIN.

GENERAL NOTES

A. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.



General Notes

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Consultant

McKinley / Fowler Elementary School - Inc 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING E
ENLARGED PLUMBING PLANS - RESTROOMS

Drawing



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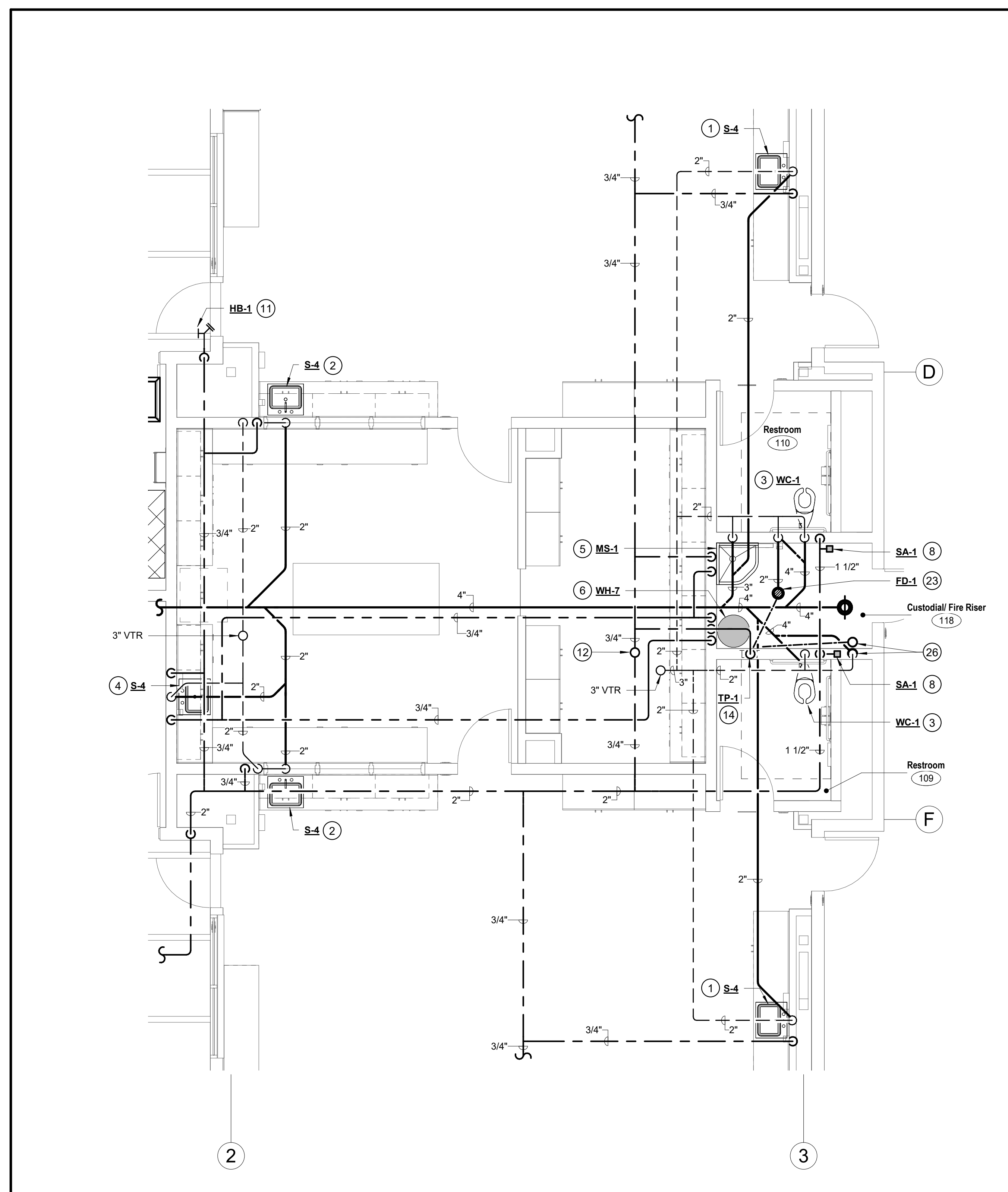


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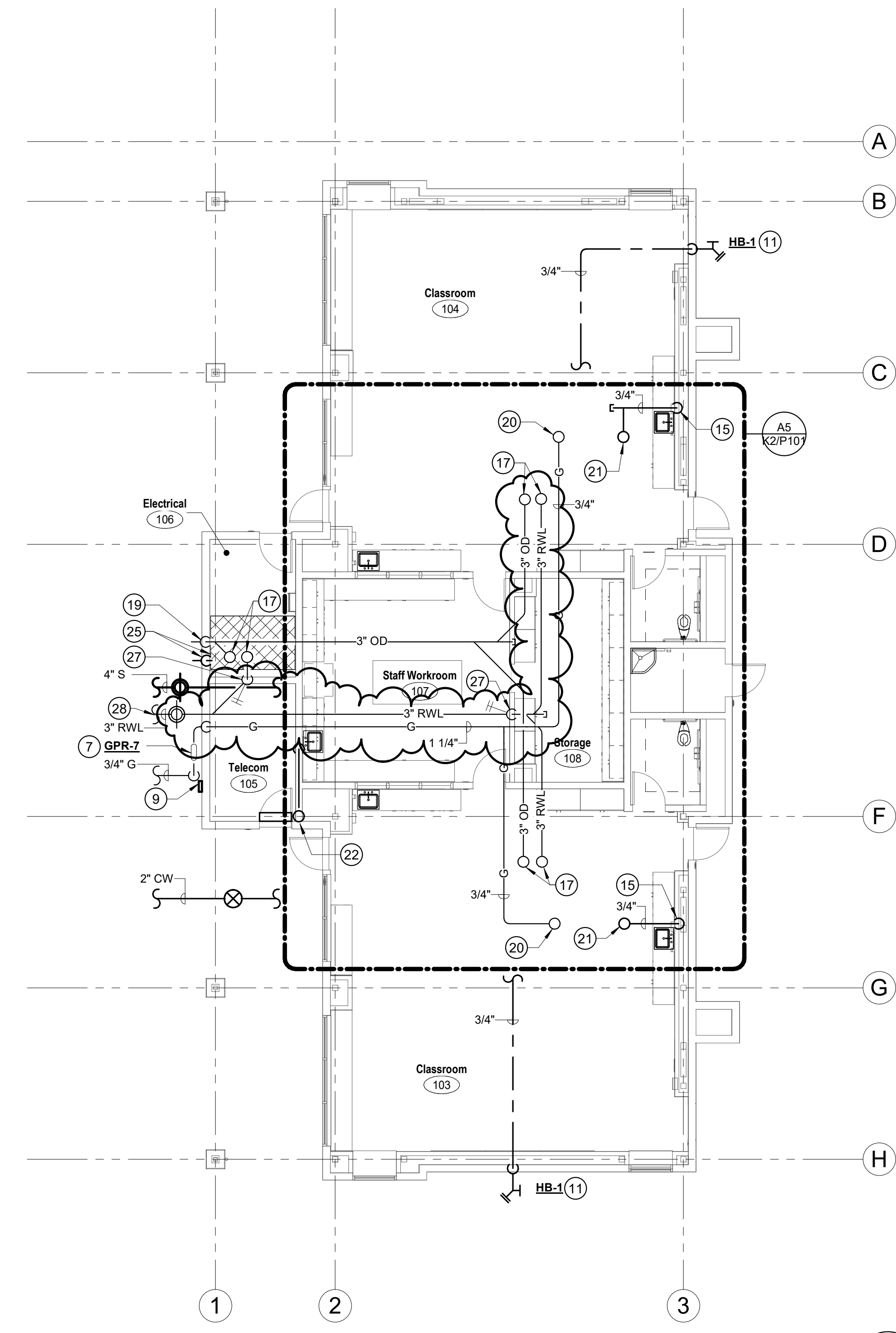
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2	Addendum #2	02/24/23

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Date:	02/08/23	Reviewed By:	HB

A11	ENLARGED PLUMBING FLOOR PLAN - RESTROOMS
1/4" = 1'-0"	E/P103



A5 ENLARGED PLUMBING FLOOR PLAN
1/4" = 1'-0"



A12 PLUMBING FLOOR PLAN
1/8" = 1'-0"

DSA File No.:
DSA File

DSA Application No.:
DSA App

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- ### KEYNOTES (#)
- 1 2" S W/ WCO, 1-1/2" V & 3/4" CW DN FOR CLASSROOM SINK.
 - 2 2" S W/ WCO, 1-1/2" V & 3/4" CW DN OFFSET FOR CLASSROOM SINK. ROUTE PIPING TO SINK BELOW WINDOW.
 - 3 4" S, 2" V & 1" CW FOR WATER CLOSET.
 - 4 2" S W/ WCO, 1-1/2" V, 3/4" CW & 3/4" HW FOR WORKROOM SINK.
 - 5 3" S, 1-1/2" V, 3/4" CW & 3/4" HW FOR MOP SINK.
 - 6 WATER HEATER ON PLATFORM MOUNTED AT +6'-6" AFF. SEE DETAIL J7 ON SHEET X/P800.
 - 7 BUILDING GAS SHUT-OFF VALVE & GAS REGULATOR ABOVE GRADE IN LOCKABLE CAGE. SEE DETAIL E14 ON SHEET X/P800 FOR PIPING INSTALLATION DETAIL.
 - 8 SHOCK ABSORBER. (TYP)
 - 9 GAS SHUT-OFF VALVE SIGN MOUNTED ON WALL. SEE DETAIL A14 ON SHEET X/P800.
 - 10 NOT USED.
 - 11 3/4" CW DN TO EXTERIOR HOSE BIBB @ +1'-6" ABV. GR.
 - 12 3/4" CW UP TO HOSE BIBB ON ROOF. SEE SHEET K2/P301 FOR CONTINUATION.
 - 13 NOT USED.
 - 14 1/2" CW DN IN WALL TO TRAP PRIMER W/ BALL VALVE & ACCESS PANEL.
 - 15 CD DN IN WALL. TERMINATE AT TAILPIECE OF SINK PER DETAIL A11 ON SHEET X/P800.
 - 16 NOT USED.
 - 17 ROOF & OVERFLOW DRAIN DN THRU ROOF. SEE SHEET K2/P301 FOR CONTINUATION.
 - 18 NOT USED.
 - 19 OVERFLOW DRAIN TO DAYLIGHT AT EXTERIOR WALL W/ DOWNSPOUT NOZZLE. DS-1. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
 - 20 GAS UP THRU ROOF TO MECHANICAL UNIT. SEE SHEET K2/P301 FOR CONTINUATION.
 - 21 CD DN THRU ROOF FROM MECHANICAL UNIT. SEE SHEET DETAIL E11 ON SHEET X/P800.
 - 22 CONDENSATE DRAIN CONNECTION AT INDOOR UNIT PER DETAIL E11 ON SHEET X/P800.
 - 23 2" S W/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTIONS FOR FLOOR DRAIN/FLOOR SINK.
 - 24 NOT USED.
 - 25 PROTECTIVE DRAIN PAN TO BE PLACED DIRECTLY BELOW OD/RWL PIPING IN ATTIC SPACE. REFER TO DETAIL J14 ON SHEET X/P801. 3/4" DRAIN LINE DN IN WALL TO DAYLIGHT 12" ABV FINISHED GRADE.
 - 26 2" S W/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTIONS FOR FIRE SINK/DRINKING FOUNTAIN.
 - 27 RAINWATER LEADER DN IN INTERIOR WALL WITH WALL CLEANOUT DN TO BELOW GRADE TO CONNECT TO STORM DRAIN. PROVIDE 2-WAY SURFACE CLEANOUT PER DETAIL N11 ON SHEET X/P800. SEE CIVIL CONTINUATION.
 - 28 RAINWATER LEADER TO BE ROUTED BELOW STRUCTURAL GRADE BEAM.

GENERAL NOTES

A. PLUMBING CONTRACTOR TO COORDINATE ALL SEWER RISERS WITHIN BUILDING AVOIDING PENETRATIONS THRU STRUCTURAL FOOTINGS AND GRADE BEAMS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO THE INSTALLATION OF ANY WORK.

NET POSITIVE consulting engineers
www.NPCEng.com
project no. 1138

Consultant

McKinley/Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

Project

BUILDING K2
PLUMBING FLOOR PLAN

Drawing

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2	Addendum #2	02/24/23
Revision		
Designed By:	HB	Copyright 2022 Darden Architects
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K2/P101

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PLUMBING SCHEDULE

PLUMBING FIXTURE SCHEDULE

Table with columns: MARK, FIXTURE, S OR W, V, CW, HW, DESCRIPTION. Contains items like STUDENT WATER CLOSET, ADULT WATER CLOSET ADA, STUDENT URINAL, STUDENT LAVATORY ADA, NURSE'S SINK ADA, WORKROOM SINK ADA, CLASSROOM SINK ADA, KINDERGARTEN CLASSROOM SINK ADA, THREE COMPARTMENT SINK (CONCESSIONS), MOP SINK, KITCHEN HAND SINK ADA, ADMIN DRINKING FOUNTAIN ADA, EXTERIOR DRINKING FOUNTAIN ADA.

PLUMBING FIXTURE SCHEDULE (CONTINUED)

Table with columns: MARK, FIXTURE, S OR W, V, CW, HW, DESCRIPTION. Contains items like HOSE BIBB, FLOOR DRAIN, FLOOR SINK, CAN WASH DRAIN, KITCHEN SINK, SUPPLY BOX, WATER FILTER, TRAP PRIMER, SHOCK ABSORBER, COMBINATION ROOF & OVERFLOW DRAIN, DOWNSPOUT, GARBAGE DISPOSER, WATER HEATER (BUILDING A), WATER HEATER (BUILDING B), WATER HEATER (BUILDING C), WATER HEATER (BUILDING D), WATER HEATER (BUILDING E), WATER HEATER (BUILDING K1), WATER HEATER (BUILDING K2), CIRCULATING PUMP, MIXING VALVE.

PLUMBING FIXTURE SCHEDULE (CONTINUED)

Table with columns: MARK, FIXTURE, S OR W, V, CW, HW, DESCRIPTION. Contains items like THERMAL EXPANSION TANK, GREASE INTERCEPTOR, GAS PRESSURE REGULATOR (BUILDING A), GAS PRESSURE REGULATOR (BUILDING B), GAS PRESSURE REGULATOR (BUILDING C), GAS PRESSURE REGULATOR (BUILDING D), GAS PRESSURE REGULATOR (BUILDING E), GAS PRESSURE REGULATOR (BUILDING K1), GAS PRESSURE REGULATOR (BUILDING K2), TOUGH DRAIN.

DSA File No.: DSA File

DSA Application No.: DSA App

Agency Approval

General Notes

NET POSITIVE consulting engineers logo and contact information.

McKinley / Fowler Elementary School- Inc. 2 Clovis Unified School District Fresno, CA 93727

TYPICAL INFORMATION PLUMBING SCHEDULES

DARDEN ARCHITECTURE logo and contact information.

Revision table with columns: No., Revision/Submission, Date. Includes revision 2: Addendum #2 dated 02/24/23.

Scale: 12" = 1'-0" Drawn By: HB Project Number: 2116 Checked By: JCS Date: 02/03/2023 Reviewed By: HB

X/P102

ELECTRICAL GENERAL NOTES

- ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:
 - CALIFORNIA BUILDING CODE 2019
 - CALIFORNIA ELECTRICAL CODE 2019
 - NON RESIDENTIAL CEC ENERGY STANDARDS 2019
- NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS, THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
- THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
- ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
- ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.
- PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4.
- ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9.
- PROVIDE MINIMUM 30" WIDE X 78" HIGH X 36" DEEP (42" DEEP) WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208/30 4W [277/480V 30 4W] PER CEC 110.26.
- ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CEC SECTION 118-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 118-308.2.2 AND 118-308.3.2.
- CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING, AND VENTILATING EQUIPMENT SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CEC SECTION 118-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 118-308.2.2 AND 118-308.3.2.
- ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAVEL (POT) OR COMMON PEDESTRIAN WAYS SHALL COMPLY WITH CEC 118-307.2, OR SHALL BE MOUNTED LESS THAN 27" AFF OR GREATER THAN 80" AFF, OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 118-307.4.
- EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
- FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
- WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
- FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
- PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
- CONTRACTOR SHALL EXTEND ALL SIGNAL AND FIRE ALARM SYSTEMS AS REQUIRED. MODIFY HEAD-IN EQUIPMENT TO ACCOMMODATE NEW DEVICES AS REQUIRED. VERIFY THE CONDITION AND EXPANDABILITY OF ALL HEAD-IN EQUIPMENT PRIOR TO BID AND MODIFY ACCORDINGLY.
- CALL USA UNDERGROUND ALERT AND VERIFY WITH DISTRICT THE DESIRED ROUTING AND LOCATIONS OF UNDERGROUND CONDUITS AND STRUCTURES PRIOR TO TRENCHING.
- EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT.
- ALL CONDUITS UNDER CONCRETE OR ASPHALT WILL HAVE 24" MINIMUM COVER OF ROCK FREE NATIVE SOIL, METALLIC WARNING TAPE AT 12", AND NO ENCASEMENT REQUIRED. ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF 250 VOLT TO GROUND OR GREATER, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE SHALL REQUIRE 1,500 PSI CONCRETE ENCASEMENT, METALLIC WARNING TAPE AT 12", AND A MINIMUM COVER FROM TOP OF ENCASEMENT OF 24". ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF LESS THAN 250 VOLTS TO GROUND, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE WILL HAVE 30" MINIMUM COVER OF NATIVE SOIL, METALLIC WARNING TAPE AT 12" AND NO ENCASEMENT REQUIRED.
- INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE THEY OCCUR. WRAP GALVANIZED RIGID STEEL BELOW GRADE. PVC SHALL NOT BE INSTALLED ABOVE GRADE.
- CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
- PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
- CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL HAVE A RED HANDLE AND LOCK-ON DEVICE.
- HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS.
- INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.
- INCLUDE ALL WORK REQUIRED TO INVESTIGATE, DEMOLISH, & RECONNECT EXISTING ITEMS.

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	NOTES
	POLE WITH POST TOP AREA LUMINAIRE	
	POLE WITH SINGLE AREA LUMINAIRE	
	POLE WITH DOUBLE AREA LUMINAIRES	
	LAY-IN LIGHT FIXTURE	
	SURFACE CEILING LIGHT	
	RECESSED DOWN LIGHT	
	WALL LIGHT	
	INDICATES RELAY NUMBER OF LIGHTING CONTROL PANEL	
	EXIT SIGN, CEILING	ARROWS INDICATE CHEVRON DIRECTIONS
	EXIT SIGN, WALL	ARROWS INDICATE CHEVRON DIRECTIONS
	EXIT SIGN, WALL, LOW LEVEL PER CBC 1013.7	ARROWS INDICATE CHEVRON DIRECTIONS
	FIXTURE TYPE 'A'	REFER TO FIXTURE SCHEDULE
	FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT CONDUCTOR
	INVERTER	
	SWITCH AT 48" AFF MAX TO TOP OF BOX	20A 277V QUIET TOGGLE
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT 48" AFF MAX TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1" TO ACCESSIBLE ATTIC SPACE
	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W/ SEPARATE EXHAUST FAN RELAY, AT 48" AFF MAX TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1" TO ACCESSIBLE ATTIC SPACE
	UL94 EMERGENCY CONTROL RELAY, 20A, DIMMING OVERRIDE, NON-FUNCTION DEVICES INC RESN	MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS LOCATION, HIGH ON WALL, WHEN NO CEILING
	DIGITAL ON/OFF SWITCH, AT 48" AFF MAX TO TOP OF BOX	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC
	DIGITAL DIMMER SWITCH, AT 48" AFF MAX TO TOP OF BOX	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC
	DIGITAL DIMMER SWITCH W/ INTEGRAL OCCUPANCY SENSOR AND PHOTOSENSOR, AT 48" AFF MAX TO TOP OF BOX	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC
	DIGITAL LED TOUCHSCREEN, AT 48" AFF MAX TO TOP OF BOX	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC. CONNECT TO LOCAL 120V POWER.
	DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY CEILING MOUNT	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC
	DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY WALL MOUNT	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC
	DIGITAL GATEWAY	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC. GATEWAY AT EACH BUILDING AND CONNECT TO LAN. PROVIDE BOX/OUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.
	DIGITAL BRIDGE	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC. PROVIDE (1) BRIDGE FOR EACH (8) LIGHT ZONES. PROVIDE OUTLET IN CEILING FOR BRIDGE POWER SUPPLY.
	DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	DIMMING POWER PACK W/ EMERGENCY CONTROL RELAY, VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	DMX CONTROLLER PACK	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR	ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING. (1) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.
	PRIMARY DAYLIGHT ZONE BOUNDARY	
	SECONDARY DAYLIGHT ZONE BOUNDARY	
	TERMINAL CABINET	
	DATA OUTLET (RJ-45 CAT6) WITH 2 JACK AT 48" AFF, U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2". TO ACCESSIBLE ATTIC SPACE. PULL CABLE TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	BLUE JACKS & CABLE QTY. OF JACKS AS NOTED ABOVE > 2	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, PULL CABLE TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	(2) WAP DATA JACKS (RJ-45 CAT6A) MOUNTED IN ATTIC SPACE YELLOW JACKS & CABLE	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2". TO ACCESSIBLE ATTIC SPACE. PULL CABLE TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	(2) WAP DATA JACKS (RJ-45 CAT6A) AT 108" AFF, U.O.N. YELLOW JACKS & CABLE	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2". TO ACCESSIBLE ATTIC SPACE. PULL CABLE TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	WALL MOUNT VOIP OUTLET (RJ-45 CAT6) AT 48" AFF, U.O.N. WHITE JACKS & CABLE	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2". TO ACCESSIBLE ATTIC SPACE. PULL CABLE TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	WALL MOUNT DATA/COMM OUTLET AT 48" AFF, U.O.N. ONE BLUE AND ONE WHITE JACKS & CABLE	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2". TO ACCESSIBLE ATTIC SPACE. PULL CABLE TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	"MAIN DISTRIBUTION FRAME"	
	"INTERMEDIATE DISTRIBUTION FRAME"	
	SURVEILLANCE (CCTV) CAMERA PROVISION, WALL MOUNTED, VERIFY HEIGHTS AT EACH LOC. C=CEILING MOUNTED.	INTERIOR: 1G J-BOX, 1G RING, MODULAR PLATE, 3/4". TO ACCESSIBLE ATTIC SPACE. EXTERIOR: 1G FLUSH BELL BOX, MODULAR PLATE, 3/4". TO ACCESSIBLE ATTIC SPACE. PROVIDE (1) PURPLE CAT6 CABLE AND DATA JACK TO EACH CAMERA PROVISION. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
	PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK RUN 1" C. TO ACCESSIBLE ATTIC SPACE.
	PUBLIC ADDRESS SPEAKER WALL MOUNTED, 112" U.O.N.	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK RUN 1" C. TO ACCESSIBLE ATTIC SPACE.
	WP OUTDOOR PUBLIC ADDRESS SPEAKER, WALL MOUNTED, 112" U.O.N.	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK RUN 1" C. TO ACCESSIBLE ATTIC SPACE.
	PUBLIC ADDRESS SPEAKER & WIRELESS CLOCK COMBINATION WALL MOUNTED, 112" U.O.N.	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK RUN 1" C. TO ACCESSIBLE ATTIC SPACE. SEE DETAIL 6/10.3.
	WIRELESS CLOCK, WALL MOUNTED 112" U.O.N.	SEE DETAIL 6/10.3.

SYMBOL	DESCRIPTION	NOTES
	WIRING IN CONDUIT, BELOW GRADE	3/4" CONDUIT MIN. SEE DETAIL M1X/E301.
	WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.; EMT CONCEALED AND ABV. 90° EXPOSED; GRS BELONGS 90° EXPOSED.
	INDICATES INVERTER CIRCUIT WIRING	EMERGENCY CIRCUIT AND NORMAL CIRCUIT WIRING SHALL NOT BE RUN IN THE SAME RACEWAY
	LOW VOLTAGE WIRING IN ATTIC SPACE	TYPE PER EQUIPMENT MANUFACTURER
	CONDUIT RISER	3/4" CONDUIT MIN.
	FLEXIBLE CONDUIT	3/4" CONDUIT MIN.
	CONDUIT STUB AND CAP	3/4" CONDUIT MIN.
	CROSS HATCHES INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT, WHEN MORE THAN TWO, WIRE SIZE INDICATED ON PLANS WHEN OTHER #12 AWG, PROVIDE GROUND PER CEC 250, PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.	3/4" CONDUIT MIN.
	CURVED CROSS HATCHES INDICATE #14 AWG PURPLE & GRAY CONDUCTORS FOR DIMMING CONTROL.	3/4" CONDUIT MIN.
	HOME RUN (TO PANEL 'A', CIRCUIT '15')	3/4" CONDUIT MIN.
	"EXISTING"	
	"UNLESS OTHERWISE NOTED"	
	"WEATHERPROOF" / NEMA 3R	
	"GROUND FAULT INTERRUPTER"	
	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	POWER PANEL	REFER TO PANEL SCHEDULE
	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
	DISCONNECT SWITCH, FUSIBLE	DISCONNECT FUSING TO BE PER NAMEPLATE DATA.
	COMBINATION STARTER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.
	MOTOR	REFER TO MECH. PLANS & SPECS.
	EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.
	SINGLE CONVENIENCE OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT
	DUPLEX CONVENIENCE OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TRD20-W
	QUADPLEX CONVENIENCE OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TRD20-W
	GFI DUPLEX OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #GFI2R-W
	WEATHERPROOF, GFI DUPLEX OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #GFI2R-W
	DUPLEX CONVENIENCE OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TRD20-SIW CODE COMPLIANT MARKING REQUIRED
	QUADPLEX CONVENIENCE OUTLET, CONTROLLED AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TRD20-W AND LEVITON #TRD20-SIW CODE COMPLIANT MARKING REQUIRED
	SPECIAL EQUIPMENT OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY RECTS W/ EQUIPMENT VENDOR TAMPER RESISTANT
	POWER POLE, 2-COMPARTMENT	
	CONCRETE FLOOR JACK AT GROUND FLOOR / RATED POIK THRU AT 2"	4-GANG BOX WITH CAST ALUMINUM TRIM PLATES, CONFIGURABLE POWER AND SIGNAL COMPARTMENTS
	RETRACTABLE CORD REEL WITH QUAD GFI OUTLET IN RECESSED CEILING ENCLOSURE	VERIFY DIMENSIONS/LOCATION PRIOR TO ROUGH-IN. HUBBELL #HBL125123 SERIES W/ 25 FT CORD RATED FOR 20A AT 120V 1W NEMA 5-20R GFI OUTLETS. SEE DETAIL A1X/E302.
	12" CU GROUND BUS BAR	WITH #8 GREEN GROUND WIRE TO G.E.C.
	FIRE/SMOKE DAMPER	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA DEDICATED F.A. RELAY
	SPRINKLER RISER BELL	PROVIDE 120V F.A. CIRCUIT RISERS WHERE INDICATED ON DRAWINGS
	WIREMOLD 5400 SURFACE WIREWAY	ROUGH IN AT WALL PER MANUFACTURER REQUIREMENTS.
	MODULAR FURNITURE POWER FEED	ROUGH IN AT WALL PER MANUFACTURER REQUIREMENTS.
	MODULAR FURNITURE DATACOM SIGNAL FEED	
	"ENERGY MANAGEMENT SYSTEM PUNCH BLOCK"	
	AUTO DOOR PUSH BUTTON	REFER TO ARCHITECTURAL
	VAPE SENSOR W/ CAT6 CABLE TO IDF	VERIFY LOCATION PRIOR TO ROUGH-IN. REFER TO EQUIPMENT VENDOR AND MANUFACTURER.
	MPR LIBRARY EXTRON INPUT STATION AT 42" AFF, U.O.N.	ROUGH IN W/ 4 SQ. DEEP BOX, 1G RING & 1". TO ACCESSIBLE ATTIC SPACE. REFER TO SPEC SECTION 274220.
	MPR LIBRARY EXTRON CONTROL STATION @ 42" AFF (1) CAT6a TO IDF & (1) CAT6a TO AV SWITCHER. GRAY JACK	ROUGH IN W/ 4 SQ. DEEP BOX, 2G RING & 1". TO ACCESSIBLE ATTIC SPACE. REFER TO SPEC SECTION 274220.
	MPR LIBRARY EXTRON CEILING PROJECTOR MOUNT, SWITCHER/AMPLIFIER, VOICE/IPT ANTENNA, AND (2) DATA JACKS	INSTALL CABLEING TO INPUT AND CONTROL STATIONS, AND SPEAKERS. REFER TO SPEC SECTION 274220 FOR MPR. SEE DETAIL 1/10.2 FOR LIBRARY, 7/10.3 FOR MPR.
	MPR SOUND RACK	REFER TO SPEC SECTION 274220.
	MPR LIBRARY SPEAKER	REFER TO SPEC SECTION 274220 FOR LIBRARY. REFER TO SPEC SECTION 274220 FOR MPR.
	MPR MICROPHONE INPUTS	REFER TO SPEC SECTION 274220 FOR LIBRARY.
	MPR LIBRARY ANTENNA, CEILING MOUNTED	REFER TO SPEC SECTION 274220.
	MPR LIBRARY ANTENNA, WALL MOUNTED	REFER TO SPEC SECTION 274220.
	MPR ASSISIVE LISTENING SYSTEM ANTENNA	REFER TO SPEC SECTION 274220.
	MPR WIRELESS MICROPHONE ANTENNA	REFER TO SPEC SECTION 274220.
	CLASSROOM WALL PROJECTOR AT 102" AFF. (2) DATA JACKS, HDMI/VGA/3.5MM AUDIO/SUB JACKS, AND 2G RING OPENING. INSTALL (2) 2-GANG BOXES WITH 2G RINGS AND (2) 1-1/4" STUBS TO ATTIC SPACE EACH. SEE POWER PLAN FOR POWER OUTLETS/AUDIO IN. SEE DETAIL 2/10.2 FOR PROJECTOR BRACKET. REFER TO SPEC SECTION 274200 AND SEE DETAIL 6/10.3.	LOCATE JACKS CONCEALED BEHIND PROJECTOR HOUSING. PULL VIDEO, AUDIO, AND ACTIVE USB CABLE TO AV INPUT JACK LOCATION AND TERMINATE. CONNECT PROJECTOR TO AMPLIFIER BRACKET. REFER TO SPEC SECTION 274200 AND SEE DETAIL 6/10.3.
	CLASSROOM EXTRON FLAT FIELD SPEAKER	CONNECT TO AMPLIFIER AT PROJECTOR HOUSING.
	AV INPUT HDMI/VGA/3.5MM AUDIO/SUB JACK WALL PLATE AT 18" AFF	2G BOX, 1G RING, (2) 1 1/4". TO ATTIC SPACE. INSTALL CABLES FROM STATION TO PROJECTOR. SEE DETAIL 6/10.3.
	RECESSED TV BOX WITH POWER OUTLET, (2) DATA JACKS, HDMI AND CATV JACKS. VERIFY HEIGHT/LOCATION PRIOR TO ROUGH-IN. SEE POWER PLAN FOR POWER OUTLET	MAKE POWER CONNECTION AND PROVIDE 1 1/2" STUB TO EXPOSED CABLE SPACE NEAR ROOF. VERIFY HEIGHTS W/ ARCH.

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 Agency Approval

ELECTRICAL EQUIPMENT ANCHORAGE NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS, WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.8 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING ELECTRICAL UTILITY SERVICE.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND 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 ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT.

- 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

THE ELECTRICAL DISTRIBUTION SYSTEM 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 BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM SHALL BE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 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.

THE ELECTRICAL DISTRIBUTION SYSTEM IS DETAILED ON THE APPROVED DRAWINGS WITH SPECIFIC NOTES AND DETAILS. WHEN A DETAIL IS NOT PROVIDED ON THE PLANS, THE ELECTRICAL DISTRIBUTION SYSTEM SHALL COMPLY WITH HCAI PRE-APPROVAL #OPM-0052-13 (B-LINE).

General Notes

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 Project

Electrical Systems
 Symbols, Notes, and Details

DARDEN ARCHITECTURE
 PLANNING INTERIORS
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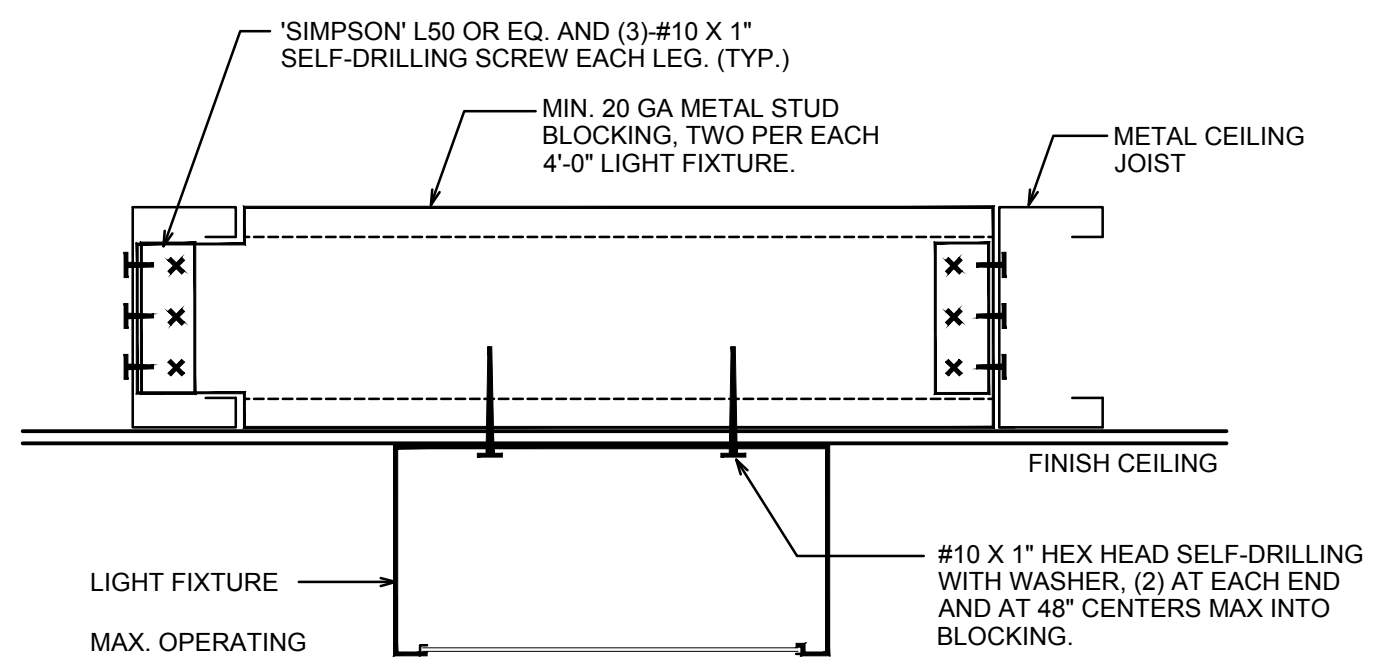
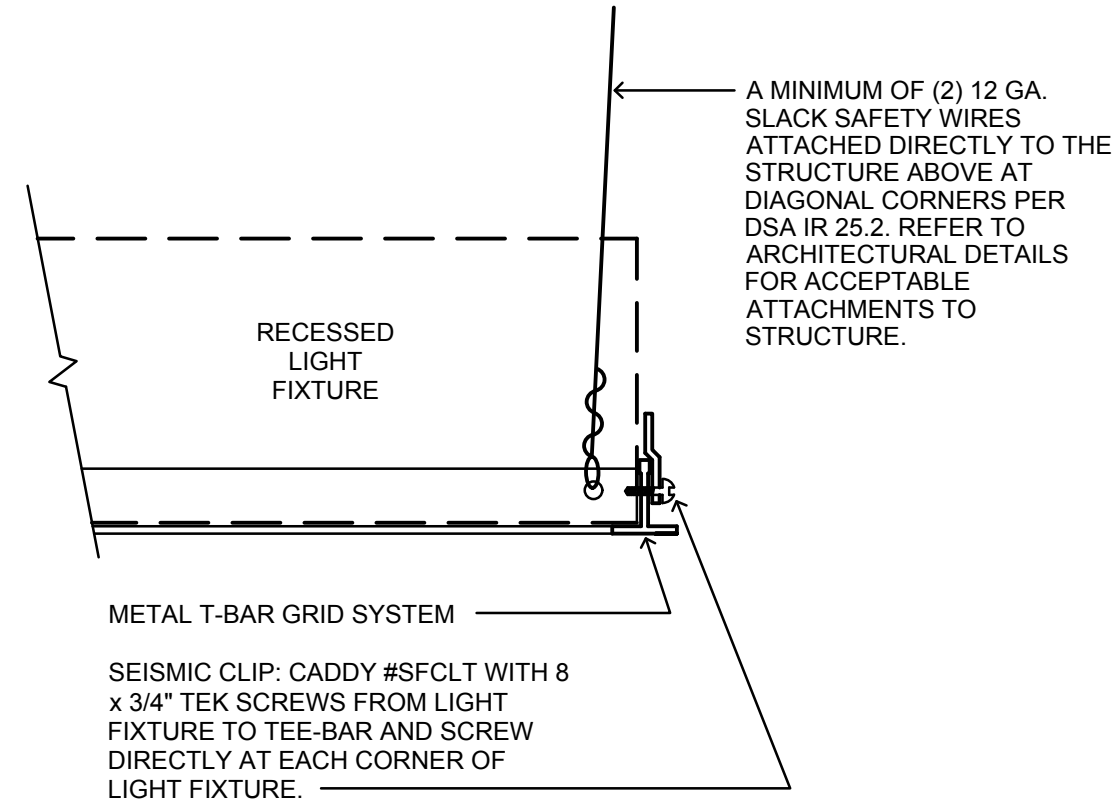
No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

Scale: As indicated	Drawn By: HDE	X/E101
Project Number: 2116	Checked By: SD	
Date: 09/19/2022	Reviewed By: SD	
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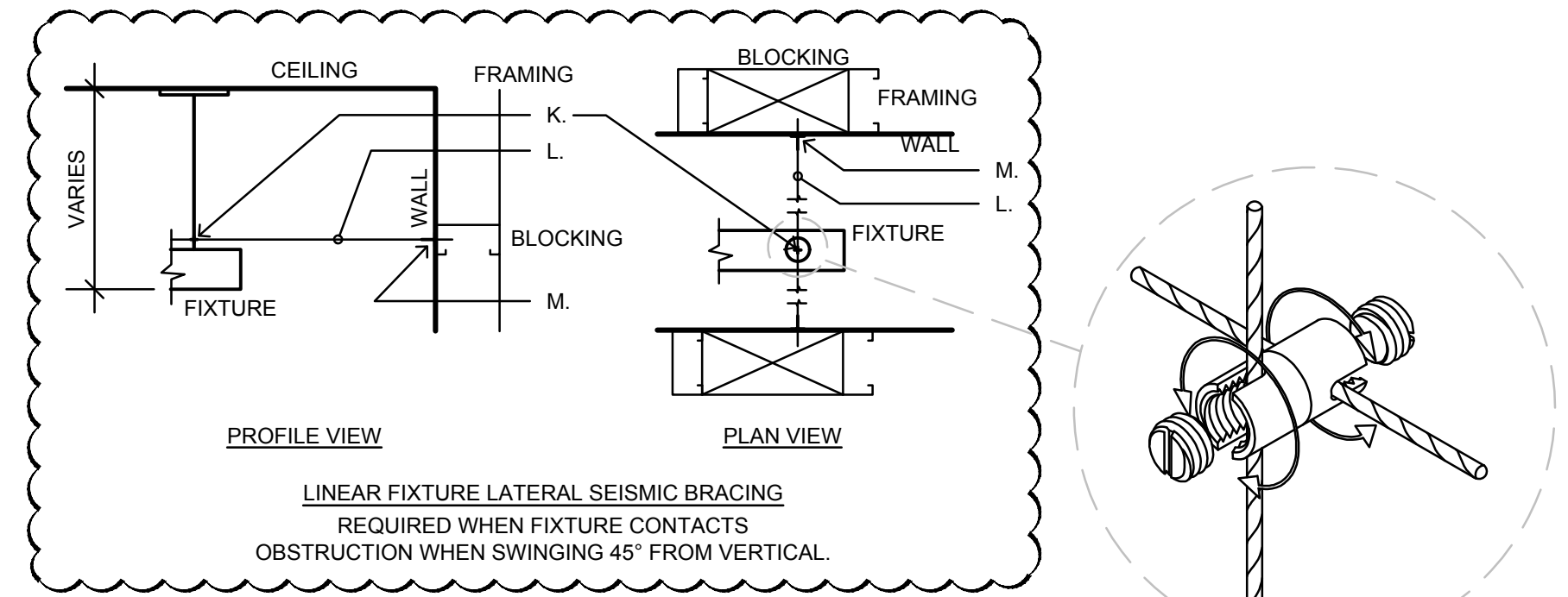
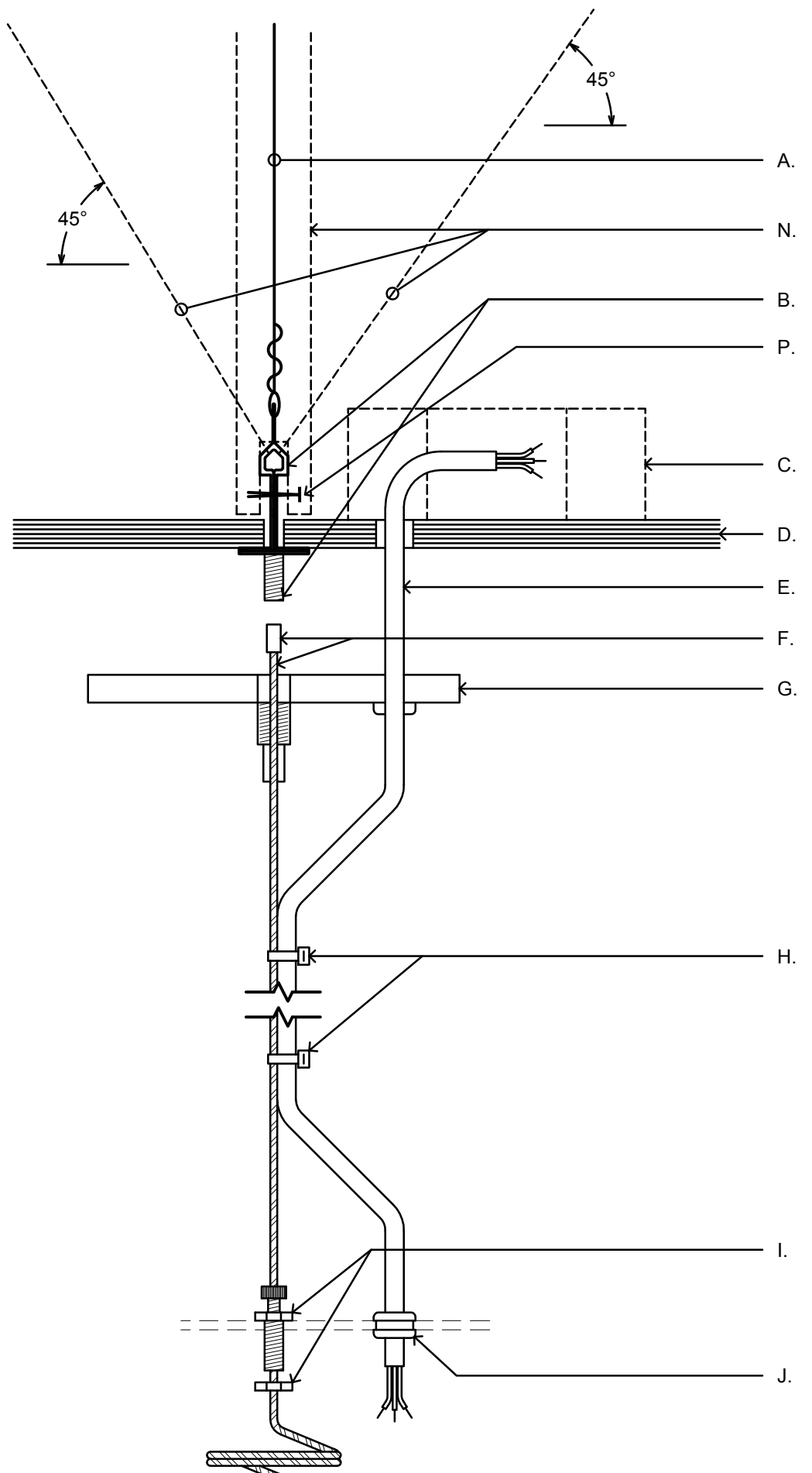
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HEAVY DUTY GRID SYSTEM			
LIGHT FIXTURE DIMENSION	WEIGHT	NO. OF HANGER WIRES	TYPE
< 24" x 48"	< 56 LBS	2	SLACK
> 24" x 48"	> 56 LBS	4	TAUT

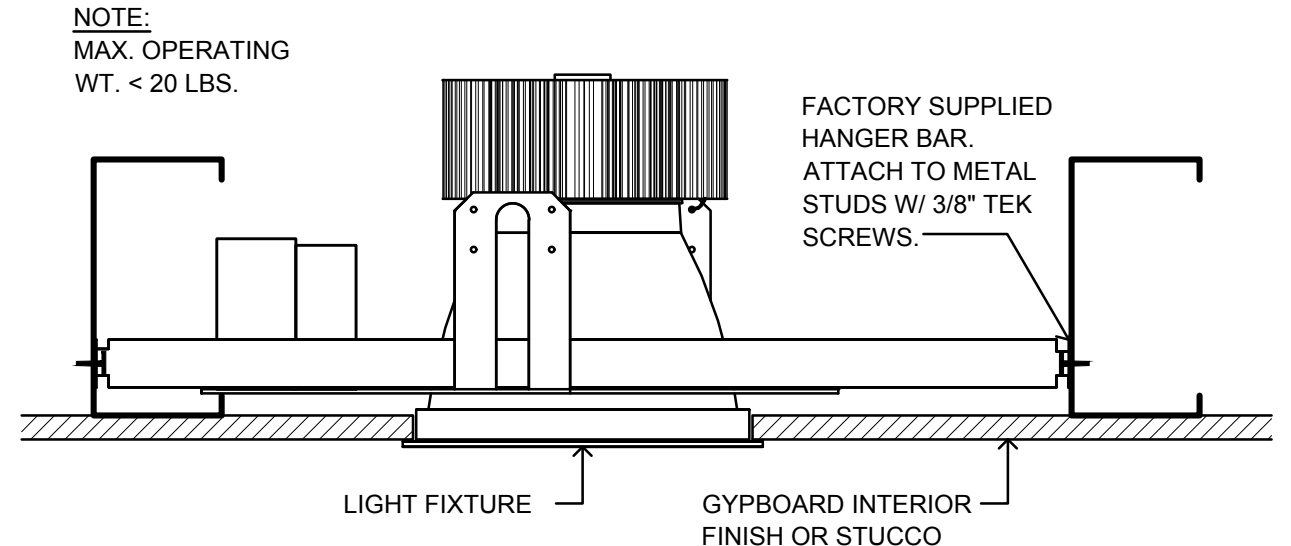
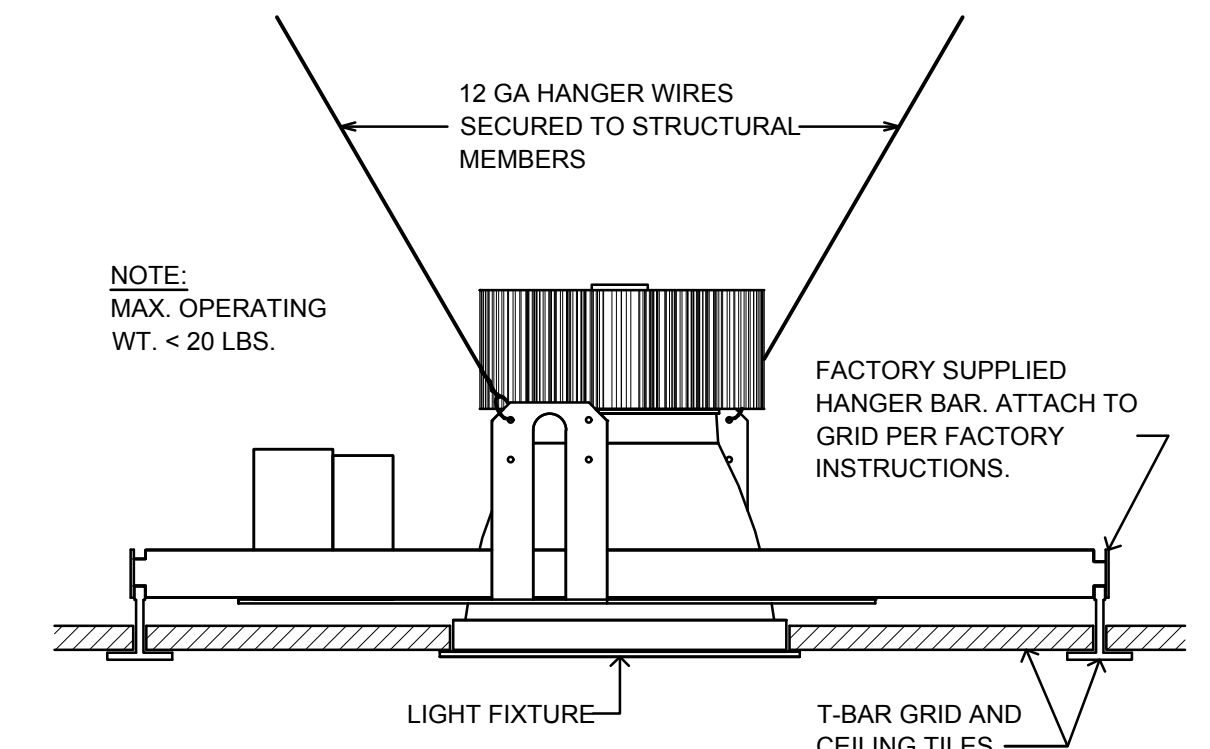


N1 Lay-in Fixture Grid Mounting Detail
No Scale

N5 Surface Fixture Mounting Detail
No Scale



E1 Linear Pendant Fixture Mounting Detail
No Scale

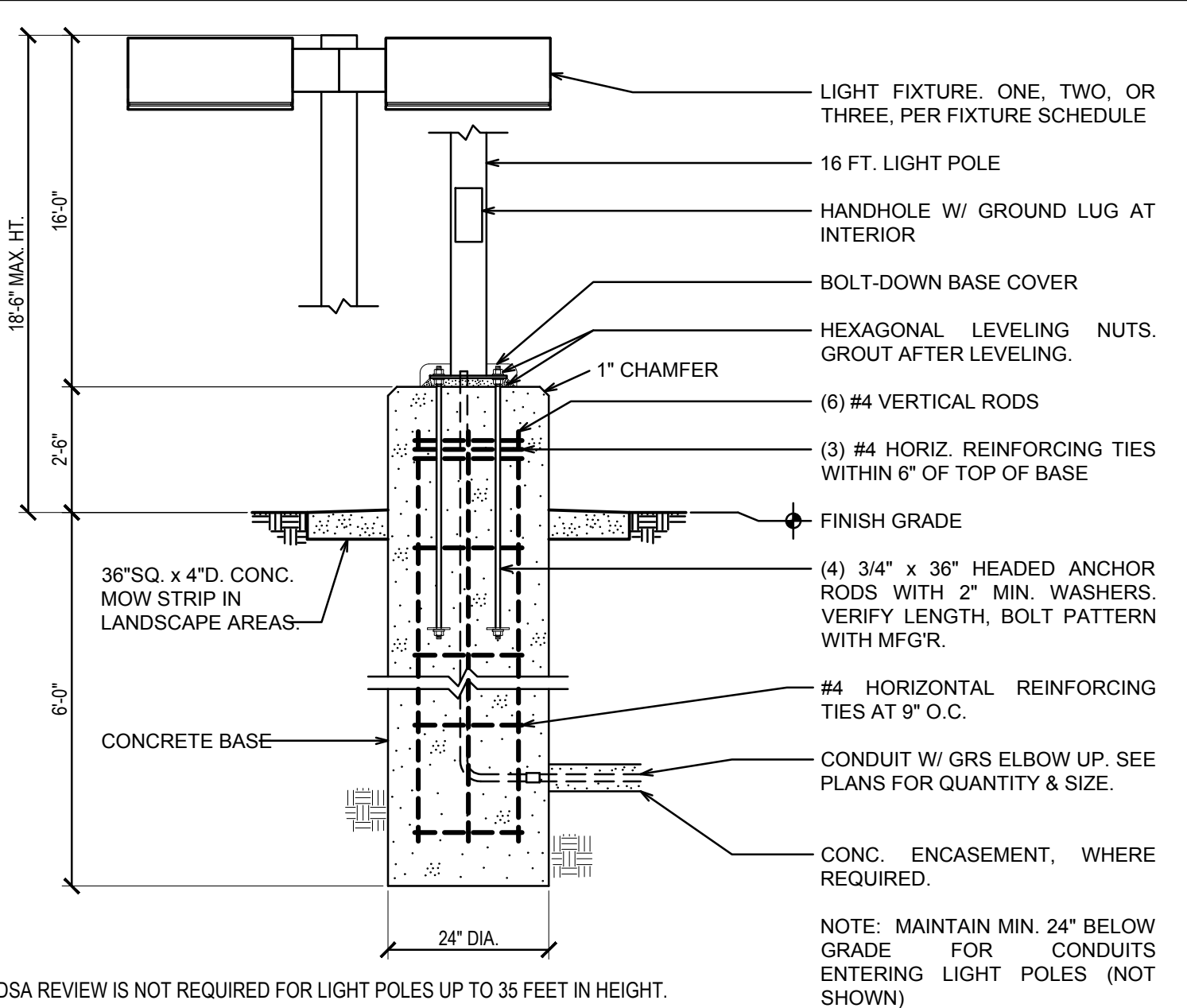


A1 Recessed Downlight Mounting Detail
No Scale

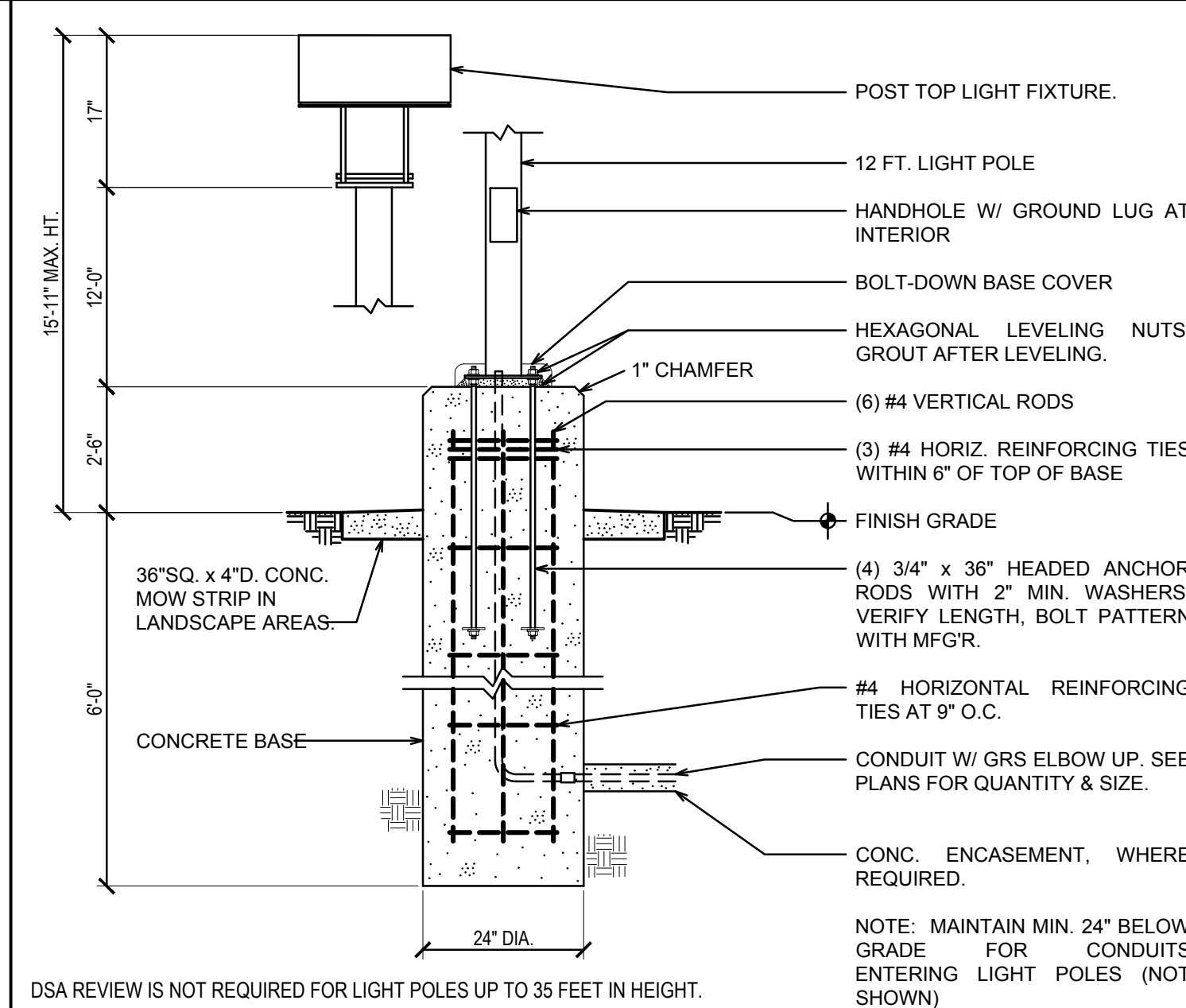
A10 Parking Area Light Pole Detail
No Scale

TYPE	MANUFACTURER	CATALOG NO.	SOURCE	WATTS	VOLTAGE	MOUNTING	DETAIL	REMARK
A	LITHONIA	2BLT2 40LHE ADSM EZ1 LP835 NLTAIR2 RIO	LED	30.8	120-277	REC GRID	N1/X/E201	NLTAIR2
AS	LITHONIA	2BLT2 40LHE ADSM EZ1 LP835 NLTAIR2 RES7PDT	LED	30.8	120-277	REC GRID	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR
ASE	LITHONIA	2BLT2 40LHE ADSM EZ1 LP835 NLTAIR2 RES7PDTM	LED	30.8	120-277	REC GRID	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR / EMERGENCY FIXTURE
B	LITHONIA	2BLT4 60LHE ADSM EZ1 LP835 NLTAIR2 RIO	LED	43.6	120-277	REC GRID	N1/X/E201	NLTAIR2
BS	LITHONIA	2BLT4 60LHE ADSM EZ1 LP835 NLTAIR2 RES7PDT	LED	43.6	120-277	REC GRID	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR
BE	LITHONIA	2BLT4 60LHE ADSM EZ1 LP835 NLTAIR2 RIDEM	LED	43.6	120-277	REC GRID	N1/X/E201	NLTAIR2 / EMERGENCY FIXTURE
BSE	LITHONIA	2BLT4 60LHE ADSM EZ1 LP835 NLTAIR2 RES7PDTM	LED	43.6	120-277	REC GRID	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR / EMERGENCY FIXTURE
C	LUMINAIRE	VPF8 4FT MIN10 NLTAIR2 50W 35K MVOLT OP WHT RIO	LED	53.3	120-277	SURF CLG	N1/X/E201	NLTAIR2
CE	LUMINAIRE	VPF8 4FT MIN10 NLTAIR2 50W 35K MVOLT OP WHT RIO	LED	53.3	120-277	SURF CLG	N1/X/E201	NLTAIR2 / EMERGENCY FIXTURE
CS	LUMINAIRE	VPF8 4FT MIN10 NLTAIR2 50W 35K MVOLT OP WHT RES7PDT	LED	53.3	120-277	SURF CLG	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR
CSE	LUMINAIRE	VPF8 4FT MIN10 NLTAIR2 50W 35K MVOLT OP WHT RES7PDTM	LED	53.3	120-277	SURF CLG	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR / EMERGENCY FIXTURE
C2	LUMINAIRE	VPF8 2FT MIN10 NLTAIR2 25W 35K MVOLT OP WHT RIO	LED	26.6	120-277	SURF CLG	N1/X/E201	NLTAIR2
C2SE	LUMINAIRE	VPF8 2FT MIN10 NLTAIR2 25W 35K MVOLT OP WHT RES7PDTM	LED	26.6	120-277	SURF CLG	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR / EMERGENCY FIXTURE
D4	PRUDENTIAL	BPROS LIN LED35 HO HO 4' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR	LED	84.0	120-277	SUSPENDED	E1/X/E201	
D4E	PRUDENTIAL	BPROS LIN LED35 HO HO 4' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR EMC	LED	84.0	120-277	SUSPENDED	E1/X/E201	EMERGENCY FIXTURE (4-FOOT SECTION)
D8E	PRUDENTIAL	BPROS LIN LED35 HO HO 8' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR EMC	LED	168.0	120-277	SUSPENDED	E1/X/E201	EMERGENCY FIXTURE (4-FOOT SECTION)
D8SE	PRUDENTIAL	BPROS LIN LED35 HO HO 8' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR EMC	LED	168.0	120-277	SUSPENDED	E1/X/E201	EMERGENCY FIXTURE (4-FOOT SECTION)
D12E	PRUDENTIAL	BPROS LIN LED35 HO HO 12' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR EMC	LED	252.0	120-277	SUSPENDED	E1/X/E201	EMERGENCY FIXTURE (4-FOOT SECTION)
D12SE	PRUDENTIAL	BPROS LIN LED35 HO HO 12' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR EMC	LED	252.0	120-277	SUSPENDED	E1/X/E201	EMERGENCY FIXTURE (4-FOOT SECTION)
D16E	PRUDENTIAL	BPROS LIN LED35 HO HO 16' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR EMC	LED	336.0	120-277	SUSPENDED	E1/X/E201	EMERGENCY FIXTURE (4-FOOT SECTION)
D20S	PRUDENTIAL	BPROS LIN LED35 HO HO 20' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR	LED	420.0	120-277	SUSPENDED	E1/X/E201	
D20SE	PRUDENTIAL	BPROS LIN LED35 HO HO 20' [C] YBK BTW HCW ADC DC UNV CA96 X3 ECO NLIGHT-AIR EMC	LED	420.0	120-277	SUSPENDED	E1/X/E201	EMERGENCY FIXTURE (4-FOOT SECTION)
F	LITHONIA	ZLID L48 5000LM FST MVOLT 35K 80CRI WH H36	LED	41.0	120-277	CHAIN	MFG'R	<20 LBS.
FE	LITHONIA	ZLID L48 5000LM FST MVOLT 35K 80CRI WH H36	LED	41.0	120-277	CHAIN	MFG'R	<20 LBS. / EMERGENCY FIXTURE
G	LITHONIA	TYPE "C2" FIXTURE MOUNTED HORIZONTALLY ON WALL ABOVE DOOR	LED	26.6	120-277	WALL	N5/X/E201	
H4	GOTHAM	EV04 35/15 AR MD LSS MVOLT G21	LED	13.7	120-277	RECESSED	A1/X/E201	
H6	GOTHAM	EV06 35/30 AR MD LSS MVOLT G21	LED	29.5	120-277	RECESSED	A1/X/E201	
H6E	GOTHAM	EV06 35/30 AR MD LSS MVOLT G21	LED	29.5	120-277	RECESSED	A1/X/E201	EMERGENCY FIXTURE
J	LITHONIA	2BLT2 40LHE ADSM EZ1 LP835 NLTAIR2 RIO 2X25MKSH PAF	LED	30.8	120-277	SURF CLG	N5/X/E201	NLTAIR2
J5E	LITHONIA	2BLT2 40LHE ADSM EZ1 LP835 NLTAIR2 RES7PDTM 2X25MKSH PAF	LED	30.8	120-277	SURF CLG	N5/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR / EMERGENCY FIXTURE
K	LUMINAIRE	VPF12 4FT MIN10 NLTAIR2 80W 35K MVOLT OP WHT RIO	LED	82.0	120-277	SURF CLG	N5/X/E201	NLTAIR2
K5	LUMINAIRE	VPF12 4FT MIN10 NLTAIR2 80W 35K MVOLT OP WHT RES7PDTM	LED	82.0	120-277	SURF CLG	N5/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR
K5E	LUMINAIRE	VPF12 4FT MIN10 NLTAIR2 80W 35K MVOLT OP WHT RES7PDTM	LED	82.0	120-277	SURF CLG	N5/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR / EMERGENCY FIXTURE
L	LITHONIA	EPANL 2X4 6800LMHE 80CRI 35K MIN10 EZT MVOLT NLTAIR2 RIO	LED	48.0	120-277	RECESSED	N1/X/E201	NLTAIR2
LS	LITHONIA	EPANL 2X4 6800LMHE 80CRI 35K MIN10 EZT MVOLT NLTAIR2 RES7PDT	LED	48.0	120-277	RECESSED	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR
LSE	LITHONIA	EPANL 2X4 6800LMHE 80CRI 35K MIN10 EZT MVOLT NLTAIR2 RES7PDTM	LED	48.0	120-277	RECESSED	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR / EMERGENCY FIXTURE
L2	LITHONIA	EPANL 2X2 3400LMHE 80CRI 35K MIN10 EZT MVOLT NLTAIR2 RIO	LED	27.0	120-277	RECESSED	N1/X/E201	NLTAIR2
L2SE	LITHONIA	EPANL 2X2 3400LMHE 80CRI 35K MIN10 EZT MVOLT NLTAIR2 RES7PDTM	LED	27.0	120-277	RECESSED	N1/X/E201	NLTAIR2 / INTEGRAL OCC/DL SENSOR / EMERGENCY FIXTURE
M	PRUDENTIAL	ZES-PRO 44 LED35 HO SAL CC SC UNV CA144 X3 DM01	LED	200.0	120-277	SUSPENDED	E1/X/E202	
ME	PRUDENTIAL	ZES-PRO 44 LED35 HO SAL CC SC UNV CA144 X3 DM01	LED	200.0	120-277	SUSPENDED	E1/X/E202	EMERGENCY FIXTURE
M2	PRUDENTIAL	ZES-PRO 44 LED35 HO SAL CC SC UNV CA144 X3 DM01	LED	104.0	120-277	SUSPENDED	E1/X/E202	
M2E	PRUDENTIAL	ZES-PRO 44 LED35 HO SAL CC SC UNV CA144 X3 DM01	LED	104.0	120-277	SUSPENDED	E1/X/E202	EMERGENCY FIXTURE
N6	GOTHAM	EV06CC 35/15 AR MD LSS MVOLT EZ1 SGB CCAN45 C120 90CRI [C]	LED	14.7	120-277	SUSPENDED	A1/X/E201	<20 LBS.
P1	LITHONIA	EV06VR 40/15 AR MD PCL MVOLT EZ10 DNA	LED	14.7	120-277	RECESSED	A1/X/E201	<20 LBS.
P1E	LITHONIA	EV06VR 40/15 AR MD PCL MVOLT EZ10 DNA	LED	14.7	120-277	RECESSED	A1/X/E201	<20 LBS. / EMERGENCY FIXTURE
P2	LUMINAIRE	VPF4 2FT MINI 20W 40K MVOLT OP [C] WL	LED	21.0	120-277	SURFACE	MFG'R	<20 LBS.
P2E	LUMINAIRE	VPF4 2FT MINI 20W 40K MVOLT OP [C] WL	LED	21.0	120-277	SURFACE	MFG'R	<20 LBS. / EMERGENCY FIXTURE
P3	LITHONIA	WDGE2 LED P2 40K 80CRI T3M MVOLT [C]	LED	19.0	120-277	WALL	MFG'R	<20 LBS.
P3E	LITHONIA	WDGE2 LED P2 40K 80CRI T3M MVOLT [C]	LED	19.0	120-277	WALL	MFG'R	<20 LBS. / EMERGENCY FIXTURE
P4	LITHONIA	LVP58 LPL MIN1 10W 40K MVOLT CLP BRZ WL PHSC	LED	10.0	120-277	WALL	MFG'R	<20 LBS.
Q	LITHONIA	ARV13 MIN1 15W 40K MVOLT OP [COLOR] SHCAB	LED	15.0	120-277	SURFACE	N1/X/E201	<20 LBS. UTILIZE 1/2" CONDUIT FOR THESE FIXTURE BACKBOXES
RU	LITHONIA	ZLID L24/48/96 1500/3000/6000LM FST MVOLT 35K 90CRI	LED	6.7 / FT	120-277	SURFACE	MFG'R	MOUNT ON TOP OF SOFFIT. REFER TO PLANS FOR OA LENGTH
RD	LITHONIA	ZLID L24/48/96 1500/3000/6000LM FST MVOLT 35K 90CRI	LED	6.7 / FT	120-277	SURFACE	MFG'R	MOUNT ON BOTTOM OF SOFFIT. REFER TO PLANS FOR OA LENGTH
S4	LITHONIA	DSX1 LED P7 T4M MVOLT RPA PIRH SF [C] / 25' RSS POLE	LED	183.0	277	25' POLE	A10/X/E201	
S5	LITHONIA	RADPT LED P4 40K 5W MVOLT PT4 PIR SF [C] / 12' RSS POLE	LED	86.0	277	12' POLE	A14/X/E201	
T	HYDREL	PLACER A P1 90CRI 30K 120 ADEG FLC WMC S12 L3 C1 [COLOR]	LED	11.0	120	WALL	MFG'R	<20 LBS.
X	LUMINAIRE	"LE" G	LED	1.0	120-277	UNIVERSAL	MFG'R	<20 LBS. / EMERGENCY FIXTURE *SEE PLANS FOR 1 OR 2 FACES.
XN	BEGHELLI	TSL 1 G 10 GRY U	N/A	N/A	N/A	UNIVERSAL	MFG'R	<20 LBS. / SELF LUMINOUS TRITIUM EMERGENCY FIXTURE

F10 Light Fixture Schedule
No Scale



A10 Parking Area Light Pole Detail
No Scale



A14 Pedestrian Light Pole Detail
No Scale

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

LIGHTING GENERAL NOTES

- THE CONTRACTOR SHALL INSTALL A COMPLETE AND OPERATIONAL LIGHTING SYSTEM FULLY CONFORMING WITH THE CALIFORNIA ENERGY COMMISSION'S TITLE 24 REQUIREMENTS.
- THE SPECIFIED LIGHTING COMPONENTS ARE PARTS OF A DIGITAL, WIRELESS, PROGRAMMABLE SYSTEM BASED ON THE LITHONIA LIGHT AIR PRODUCT LINE.
- THE SYSTEM IS CONTROLLED AND PROGRAMMED THROUGH AN ILLUMINANCE GATEWAY LOCATED IN EACH BUILDING. THE GATEWAY REQUIRES A 120V OUTLET AND DATA OUTLET AT THE ELECTRONICS BACKBOARD. THE GATEWAY CONNECTS TO THE OWNER'S LAN WITH A CAT 6 CABLE.
- EACH FIXTURE AND CONTROL DEVICE REQUIRES LINE VOLTAGE, UNSWITCHED POWER, AND HAS A BUILT-IN, WIRELESS CONNECTIVITY.
- SOME FIXTURES SUCH AS DOWNLIGHTS AND SIGNAGE ARE WIRED TO AND CONTROLLED BY AN ILLUMINANCE AIR POWER PACK WITH DIMMING CAPABILITY. POWER PACKS REQUIRE LINE VOLTAGE, UNSWITCHED POWER. VERIFY THE DIMMING PROTOCOL OF DIMMING FIXTURES AND ORDER THE APPROPRIATE POWER PACK.
- EMERGENCY FIXTURES AND POWER PACKS REQUIRE BOTH A CONNECTION TO THE INVERTER EMERGENCY LIGHTING CIRCUIT AND A LOCAL NORMAL LIGHTING CIRCUIT. UPON LOSS OF THE NORMAL CIRCUIT, THE FIXTURE TURNS ON AND RAMP'S UP TO 100% LIGHT OUTPUT.
- THE PLANS GENERALLY SHOW THE LOCATION OF SWITCHES, SENSORS, CONTROL MODULES ETC. ACTUAL LOCATIONS AND INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH THE MANUFACTURER'S SHOP DRAWINGS.
- LIGHTING FIXTURE COLORS, WHEN NOT SPECIFIED, SHALL BE SELECTED BY THE ARCHITECTS OFFICE. DO NOT SUBMIT COLORS THAT HAVE NOT BEEN SELECTED OR APPROVED BY THE ARCHITECT.
- THE CONTRACTOR SHALL FURNISH SYSTEM PROGRAMMING BY FACTORY PERSONNEL OR THE FACTORY'S APPROVED THIRD PARTY VENDOR TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF TITLE 24. THE CONTRACTOR SHALL NOT ATTEMPT PROGRAMMING UNLESS SPECIFICALLY AUTHORIZED BY THE FACTORY.
- SUBMIT COMPLETE LIGHTING CONTROL SHOP DRAWINGS FURNISHED BY THE FACTORY TO THE ENGINEER FOR REVIEW.
- A SUBSTITUTE LIGHTING FIXTURES AND CONTROLS PACKAGE FROM ANOTHER MANUFACTURER MAY BE ACCEPTABLE. THE SUBSTITUTE PACKAGE SHALL BE EQUAL OR GREATER IN ALL RESPECTS TO THE SPECIFIED PACKAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED COMPONENTS, ADDITIONAL WIRING FOR DIMMING OPERATION OF LIGHT FIXTURES, AND ANYTHING ELSE NEEDED FOR A COMPLETE AND OPERATIONAL SYSTEM. A SUBSTITUTE PACKAGE SHALL IN NO WAY INCUR COSTS TO THE OWNER. SUBMIT SUBSTITUTE PACKAGE, INCLUDING SHOP DRAWINGS, TO ENGINEER FOR REVIEW AND APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN REJECTION OF SUBSTITUTE COMPONENTS.
- CALIFORNIA ENERGY CODE SECTION 10-10.3 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS AFTER INSTALLATION AND BEFORE PROJECT COMPLETION.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN ("ATT"). A LISTING OF CERTIFIED ATTS CAN BE FOUND AT [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program). ACCEPTANCE TEST PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDING OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE LIGHTING SYSTEM CONFORMS AND PASSES THE REQUIRED ACCEPTANCE CRITERIA.

General Notes

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Clovis Unified School District
Fresno, CA 93727

Project

Lighting Systems
Fixture Schedule, Details

Drawing

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No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

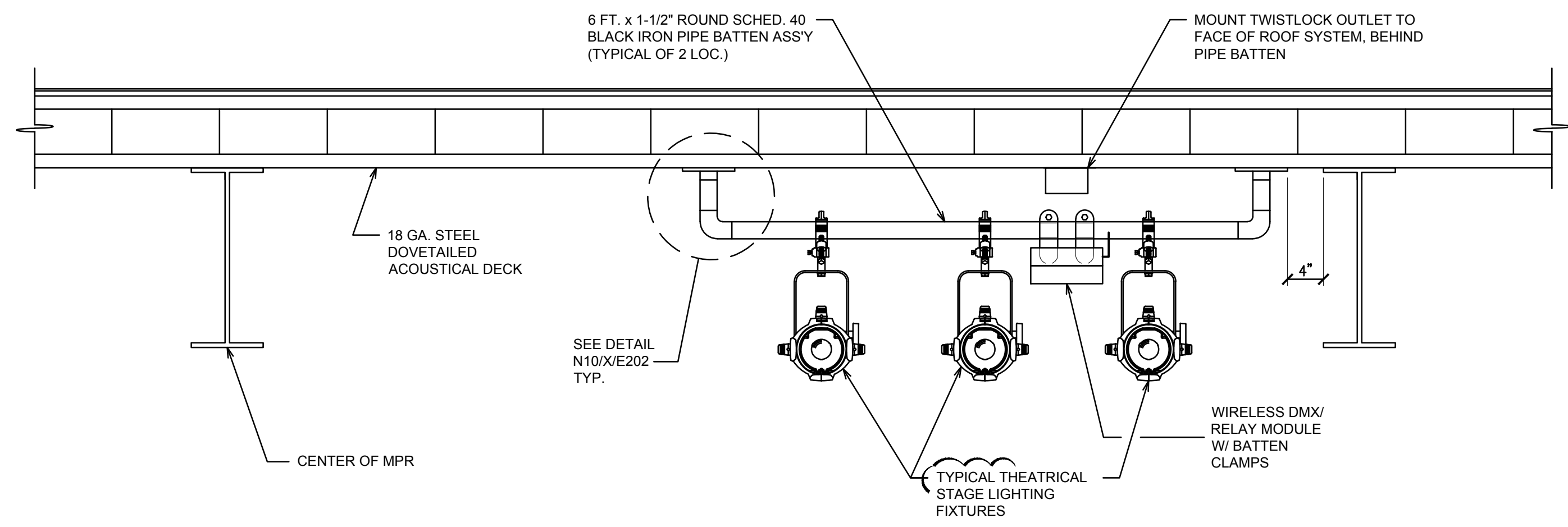
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Scale: As indicated
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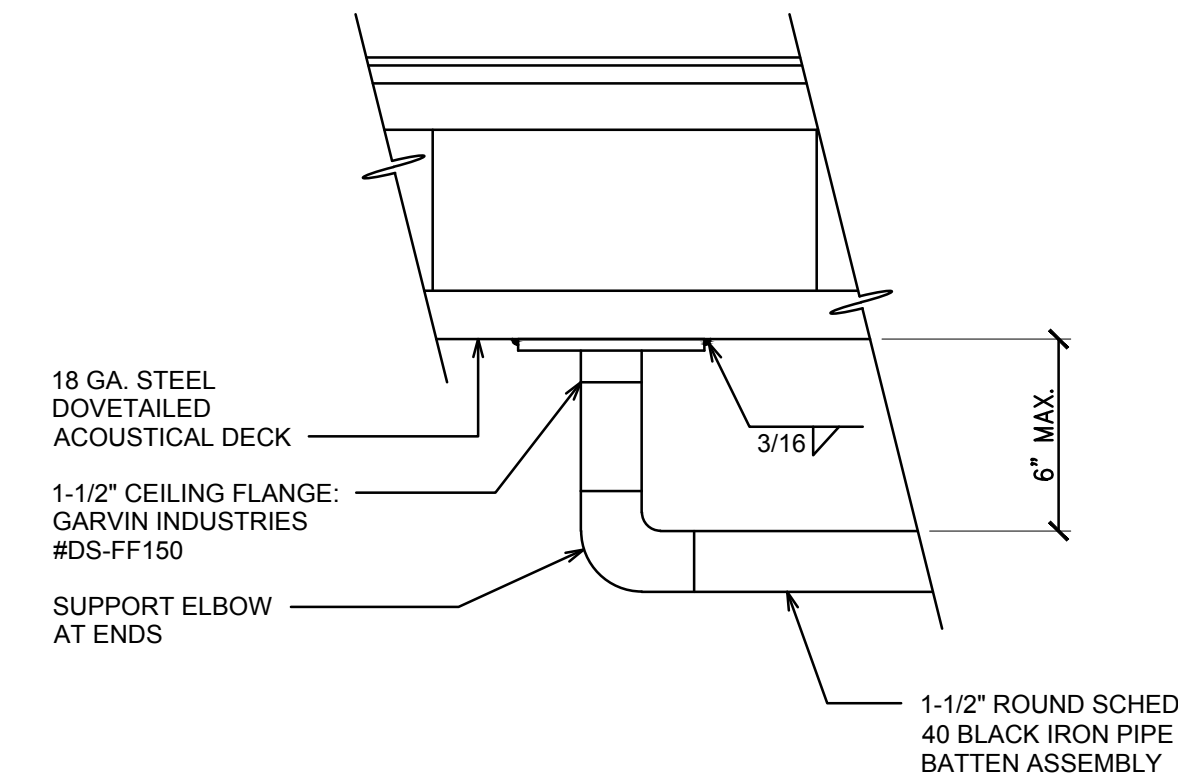
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Checked By: SD

Date: 09/19/2022
Reviewed By: SD

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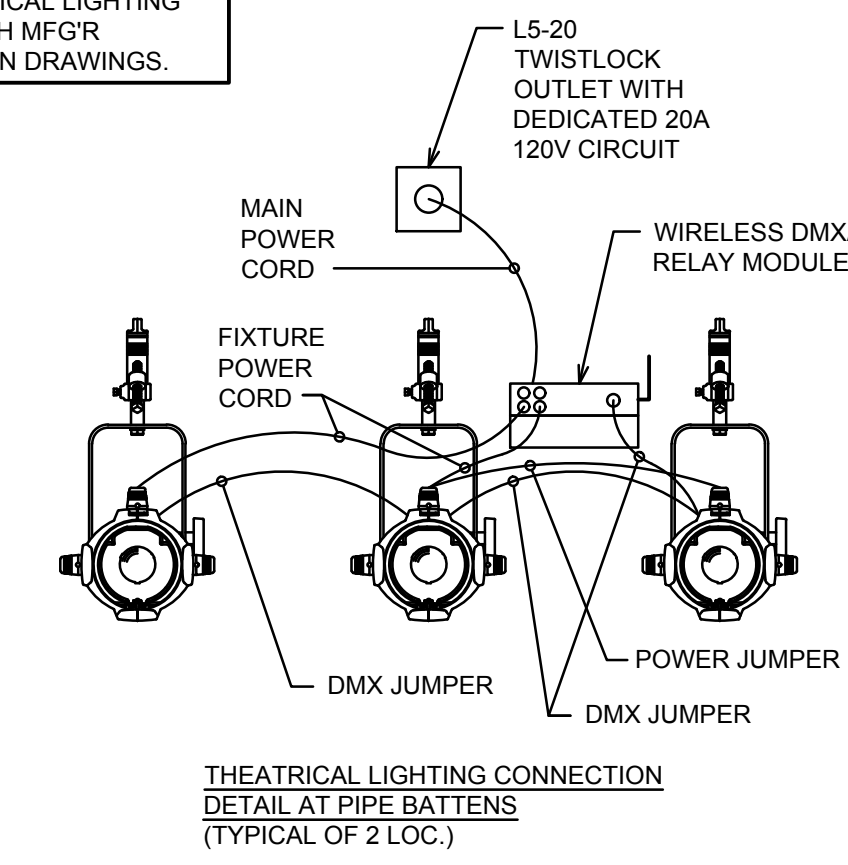


N1 Theatrical Lighting Pipe Batten Detail (2) Locations



N10 Pipe Batten Attachment Detail

NOTE: VERIFY EXACT REQUIREMENTS FOR THEATRICAL LIGHTING SYSTEM WITH MFGR INSTALLATION DRAWINGS.

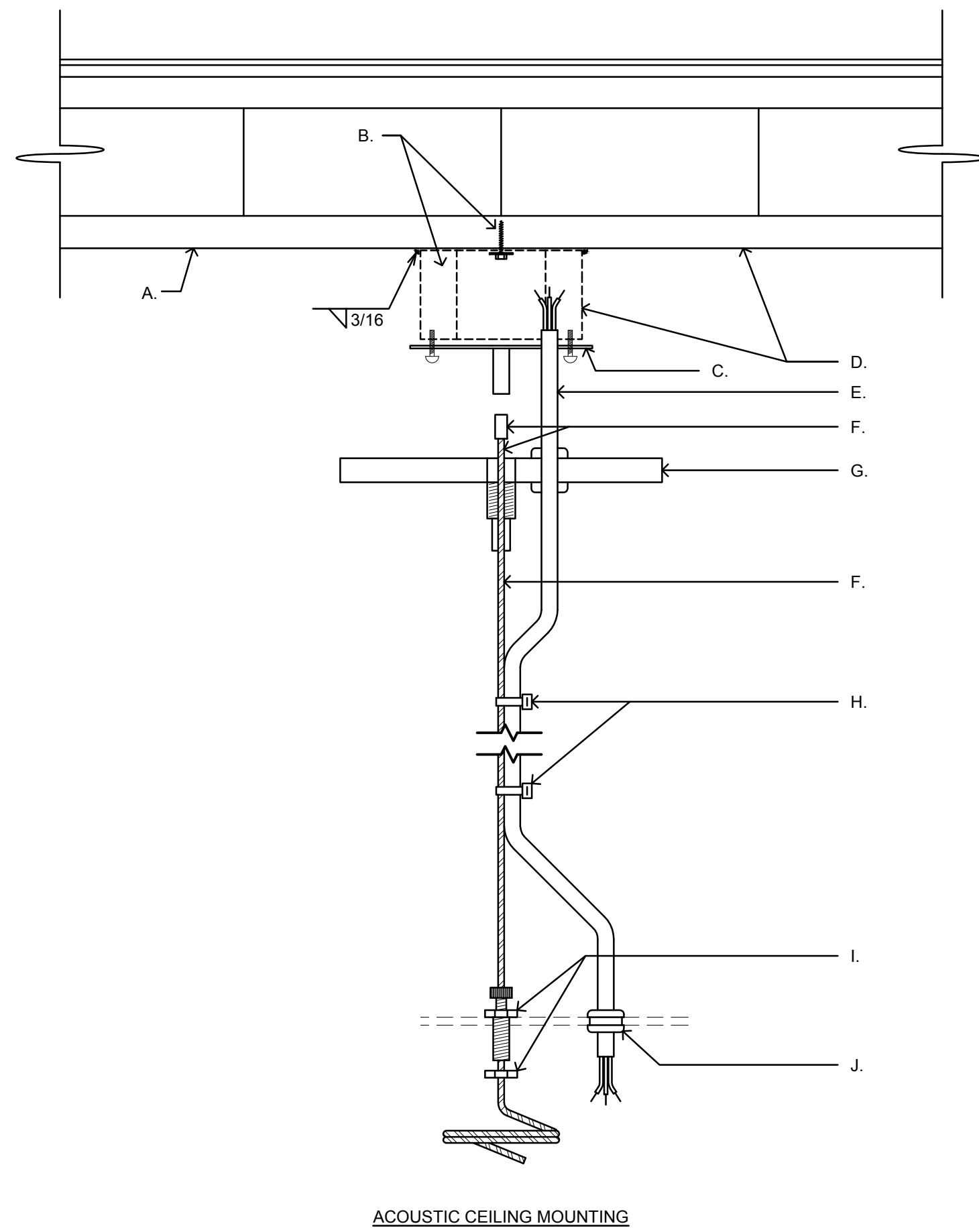


N14 Theatrical Fixture Connection Detail

DSA File No.: 10-48

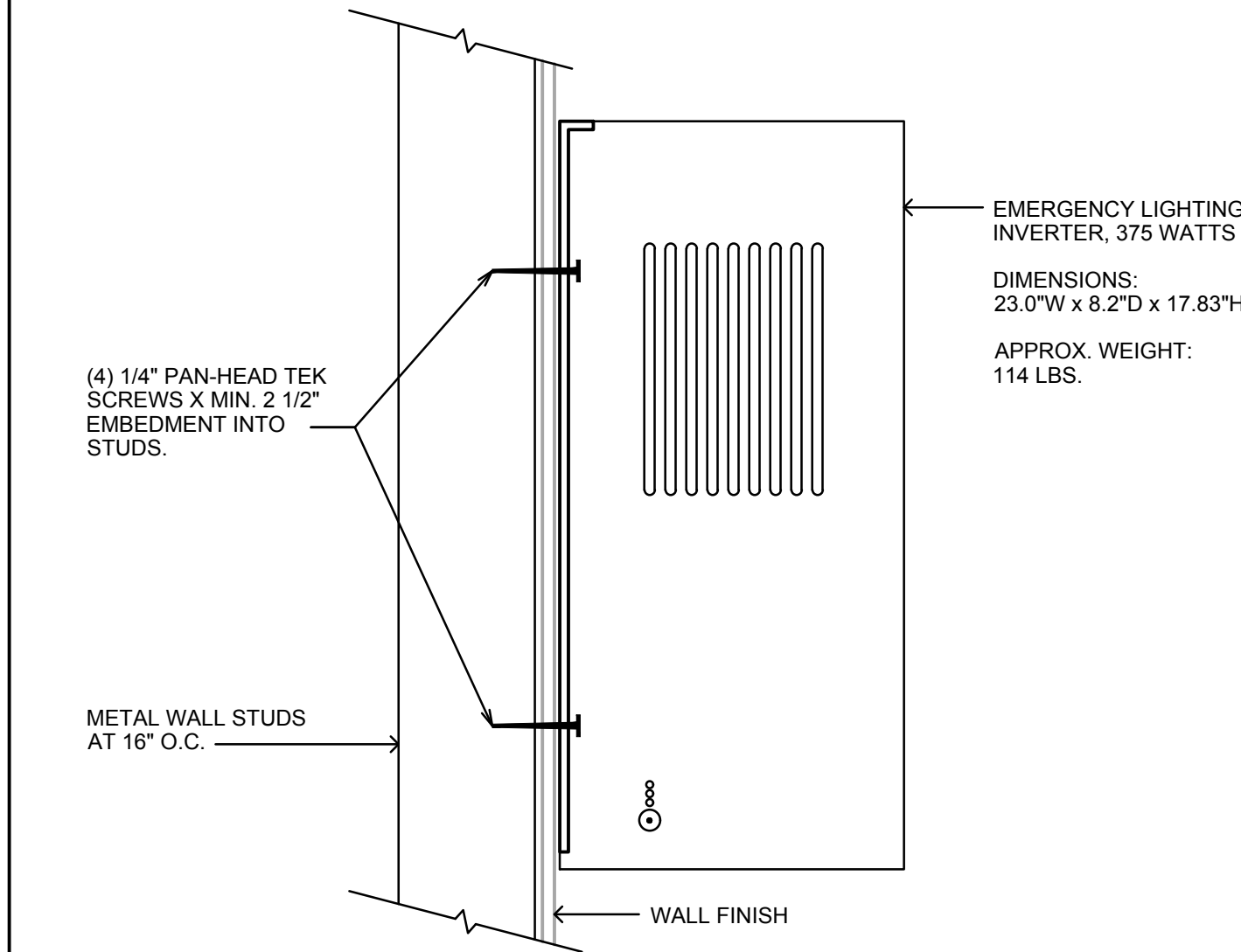
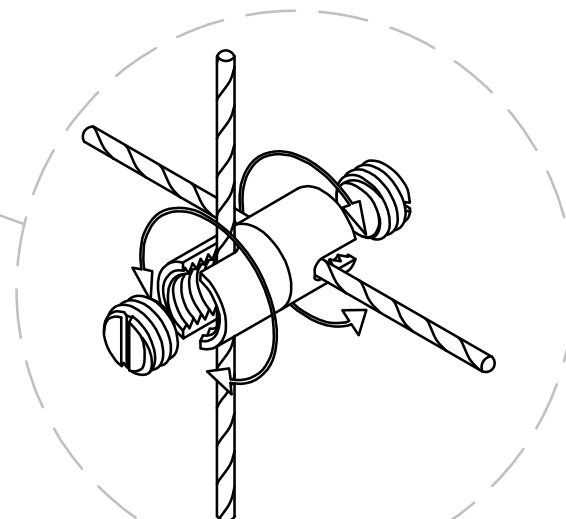
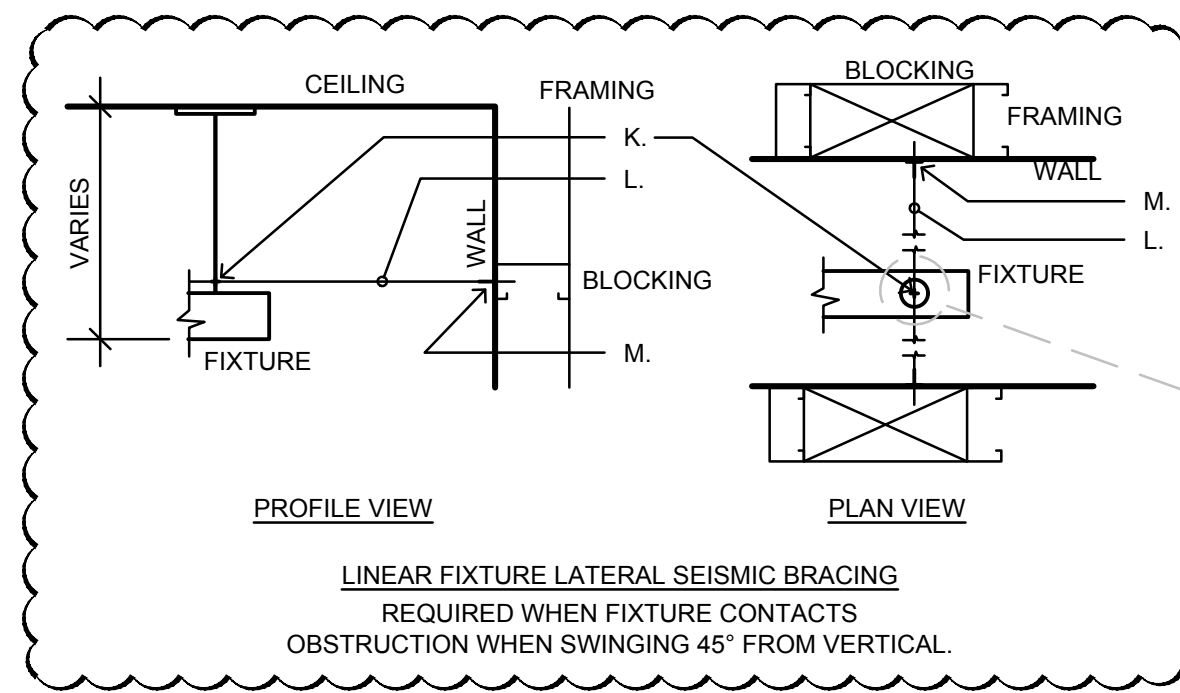
DSA Application No.: 02-120543

Agency Approval

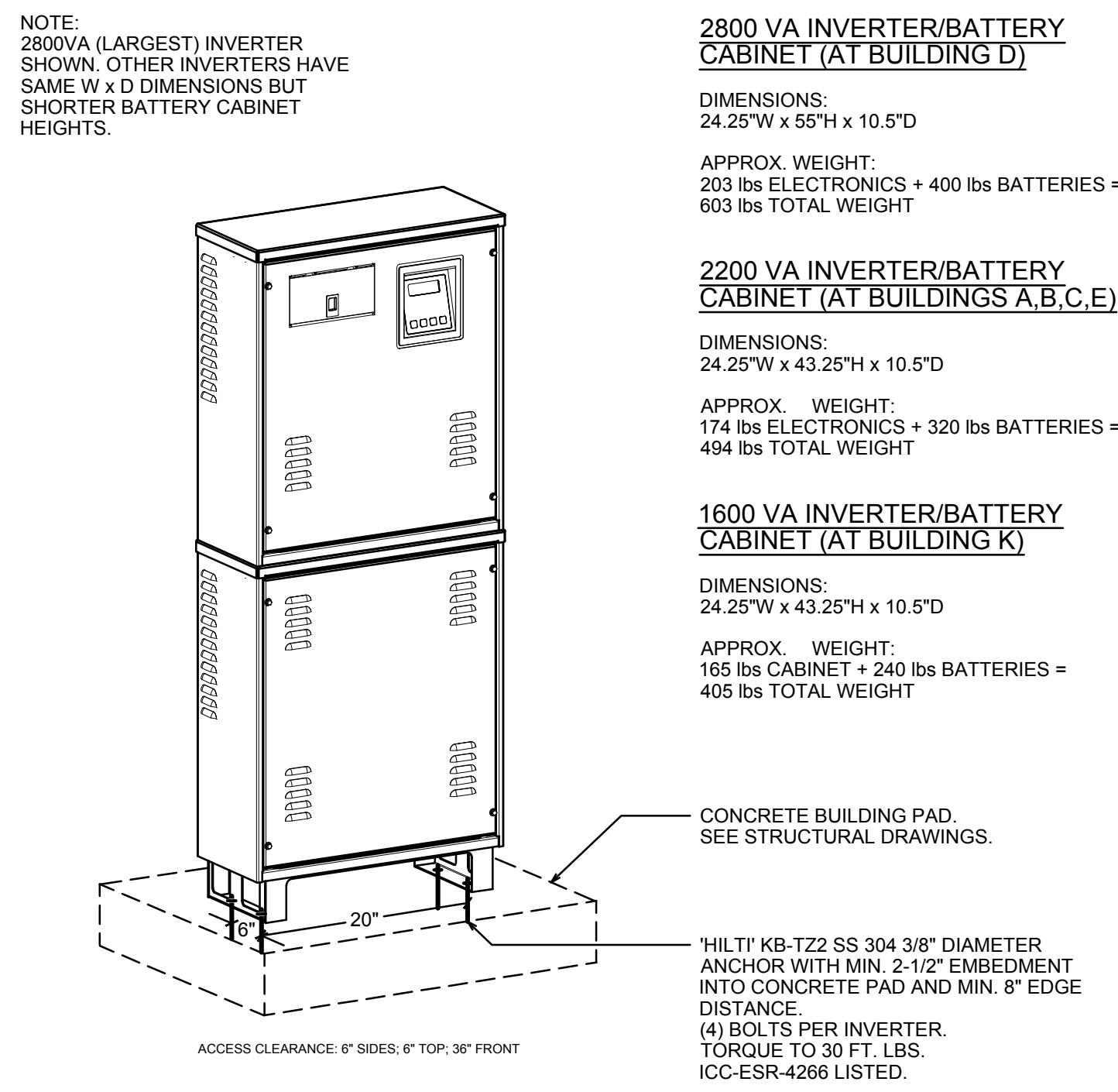


DETAIL KEY NOTES:

- A. 18 GA. STEEL DOVETAILED ACOUSTICAL DECK.
- B. CEILING FAN RATED BOX: RACO #926 OR EQUAL, RATED 70LBS MAX. ATTACH TO DECK WITH 3/16" SMS AND WASHER. FILET WELD AFTER VERIFYING ALL BOX LOCATIONS ARE PROPERLY LOCATED.
- C. MOUNTING BRACKET BY MFGR.
- D. PAINTED FINISH: PAINT EXPOSED ELECTRICAL RACEWAYS AND BOXES TO MATCH SURROUNDINGS.
- E. POWER FEED: WHITE SO CORD, 18/3 OR 18/4, AS REQUIRED.
- F. AIRCRAFT CABLE: 3/32" STAINLESS STEEL AIRCRAFT CABLE W/ BARREL TERMINAL AT ONE END.
- G. CANOPY: 1/4" INTERNAL THREAD CEILING COUPLER AND BARREL TERMINAL CAPTURE, BY MFGR.
- H. ZIP TIE: NEATLY ZIP TIE POWER FEED TO AIRCRAFT CABLE AT 6" CENTERS W/ WHITE ZIP TIES. USE FACTORY SUPPLIED SHROUD WHEN AVAILABLE.
- I. GRIPPER: UL LISTED AIRCRAFT CABLE GRIPPER W/ KNURLED LOCK NUT, 1/4-20" THREADED BODY & NUT ATTACHES TO FIXTURE.
- J. STRAIN RELIEF: STRAIN RELIEF BUSHING AT FIXTURE.
- K. 2-CABLE CLAMP: GRIPLOCK #CC-LINICROSS SECURE TO EACH HANGER CABLE WITHIN 4" OF FIXTURE ATTACHMENT POINT.
- L. LATERAL BRACING CABLE: 3/32" STAINLESS STEEL AIRCRAFT CABLE INSTALLED LONGITUDINALLY ACROSS FIXTURE TO PREVENT SWAYING.
- M. WALL CABLE ANCHOR: GRIPLOCK #25Z-M13-1420-SL SECURED WITH #12 SHEET METAL SCREW TO WALL FRAMING/BLOCKING AT EACH END OF FIXTURE.



H10 Emergency Lighting Inverter Wall Mounting Detail



H14 Emergency Lighting Inverter Floor Mounting Detail

E1 Square Pendant Fixture Mounting Detail

TYPE OF SPACE	MANUAL ON/OFF/OVERRIDE	DIMMING SWITCH	AUTOMATIC DAYLIGHT DIMMING WHEN AVAILABLE	OCCUPANCY SENSOR ON	OCCUPANCY SENSOR ON TO 25%	OCCUPANCY SENSOR OFF AFTER 20 MIN	OCCUPANCY SENSOR OFF AFTER 60% AFTER 10 MIN	GATEWAY OPEN HOURS SCHEDULE ON	GATEWAY CLOSED & HOLIDAY HOURS SCHEDULE OFF	GATEWAY SHADOWS SWITCHES DURING OPEN HOURS	BELOW OCCUPANCY SENSOR WITHIN LAST 4 SCENES	SCENE CONTROL POWER RECEPTACLES	DEMAND RESPONSE CAPABLE	ASTRONOMIC TIMECLOCK ON/OFF	ASTRONOMIC TIMECLOCK DIMMING	ASTRONOMIC TIMECLOCK AB RELAYS
ENTRY / LOBBY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CORRIDOR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
OFFICE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CLASSROOM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CONFERENCE ROOM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MULTI-PURPOSE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GYMNASIUM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAFETERIA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KITCHEN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
KITCHENETTES IN OFFICES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
COPY ROOMS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LARGE RESTROOM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STAIRWELLS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STORAGE <100 S.F.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELECTRICAL ROOM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
OTHER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BUILDING >10,000 S.F.														X	X	X
BUILDING EXTERIOR														X	X	X
PEDESTRIAN WALKS														X	X	X
PARKING LOT														X	X	X

A14 Lighting Control Matrix

General Notes

Hardin-Davidson Engineering
 356 Pollasky Ave., Suite 200, Clovis, CA 93612
 559.323.4955 tel • 559.323.4928 fax
 www.hardin-davidson.com

Consultant

McKinley/Fowler Elementary School
 Clovis Unified School District
 Fresno, CA 93727

Project

Lighting Systems
 Details

darden architects ARCHITECTURE PLANNING INTERIORS
 www.dardenarchitects.com

Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23

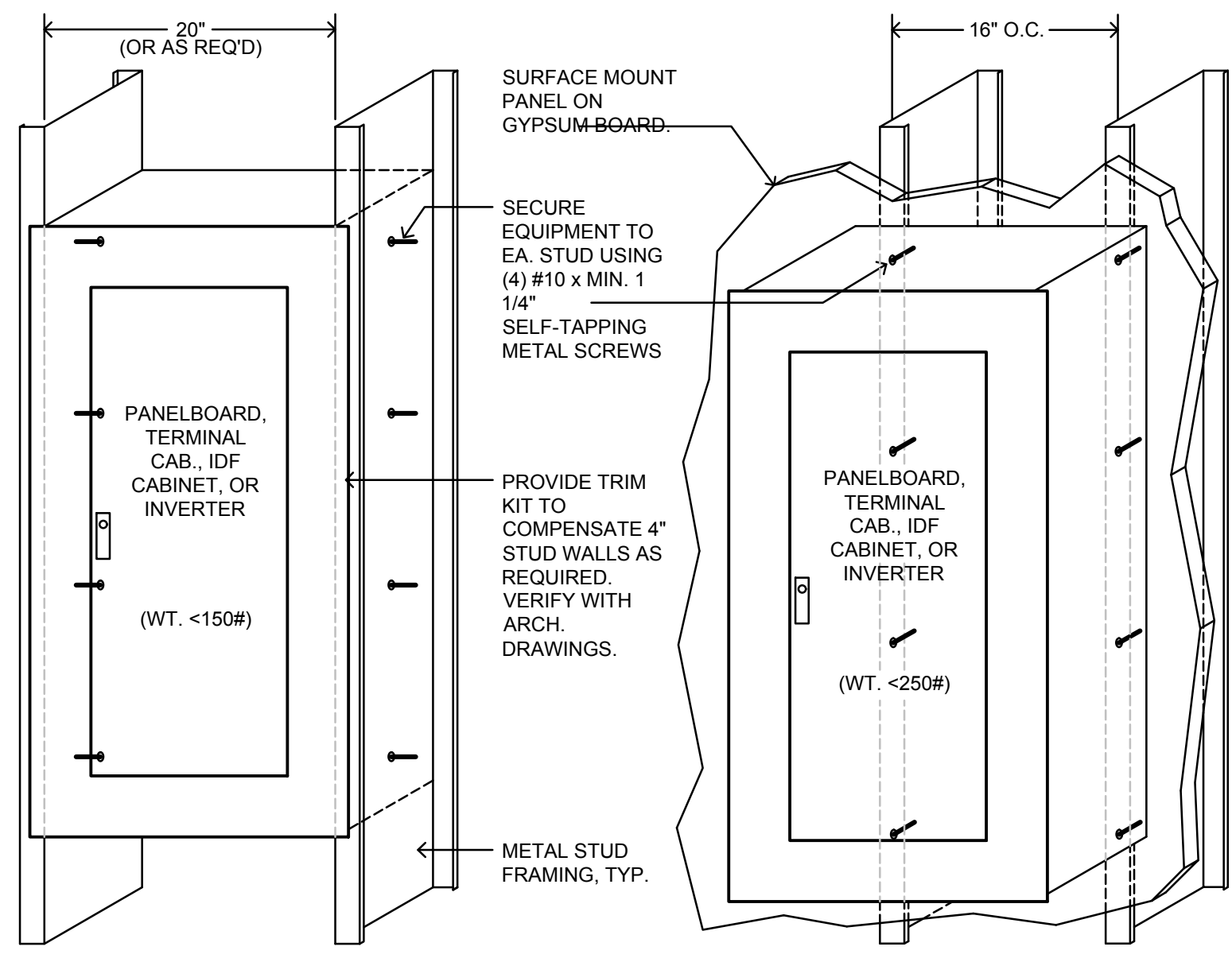
Revision

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Scale: As indicated Drawn By: HDE
 Project Number: 2116 Checked By: SD
 Date: 09/19/2022 Reviewed By: SD

X/E202

Sheet: _____ of: _____



THIS DETAIL APPLIES TO NEW WALL CONSTRUCTION WHERE STUD SPACING CAN BE ADJUSTED. AT EXISTING WALLS, RECESSED INSTALLATION MAY REQUIRE FIELD INSPECTION AND DETAILING. SUBJECT TO APPROVAL BY ON-SITE DSA INSPECTOR.

PANEL "AH" SCHEDULE 277/480V 3Φ 4W 42KAIC INDOOR / SURFACE. Table with columns: CKT. NO., DESCRIPTION, BREAKER AMPS POLES, VA, φ, VA, BREAKER AMPS POLES, DESCRIPTION, CKT. NO.

PANEL "AL" SCHEDULE 120/208V 3Φ 4W 22KAIC INDOOR / SURFACE. Table with columns: CKT. NO., DESCRIPTION, BREAKER AMPS POLES, VA, φ, VA, BREAKER AMPS POLES, DESCRIPTION, CKT. NO.

PANEL "ALIT" SCHEDULE 120/208V 3Φ 4W 22KAIC INDOOR / SURFACE. Table with columns: CKT. NO., DESCRIPTION, BREAKER AMPS POLES, VA, φ, VA, BREAKER AMPS POLES, DESCRIPTION, CKT. NO.

PANEL "BH" SCHEDULE 277/480V 3Φ 4W 42KAIC INDOOR / SURFACE. Table with columns: CKT. NO., DESCRIPTION, BREAKER AMPS POLES, VA, φ, VA, BREAKER AMPS POLES, DESCRIPTION, CKT. NO.

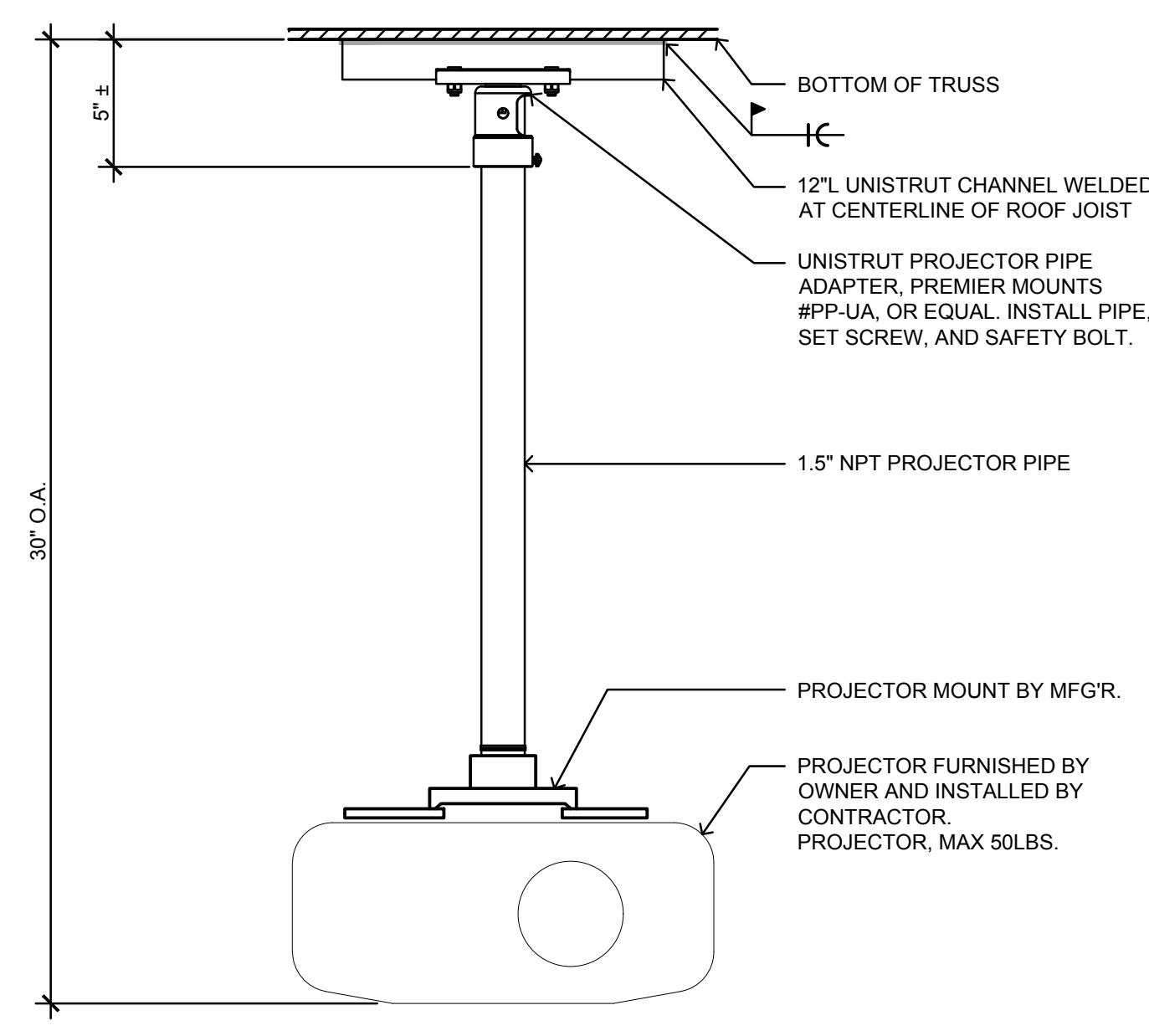
PANEL "BL" SCHEDULE 120/208V 3Φ 4W 22KAIC INDOOR / SURFACE. Table with columns: CKT. NO., DESCRIPTION, BREAKER AMPS POLES, VA, φ, VA, BREAKER AMPS POLES, DESCRIPTION, CKT. NO.

PANEL "BL1" SCHEDULE 120/208V 3Φ 4W 22KAIC INDOOR / SURFACE. Table with columns: CKT. NO., DESCRIPTION, BREAKER AMPS POLES, VA, φ, VA, BREAKER AMPS POLES, DESCRIPTION, CKT. NO.

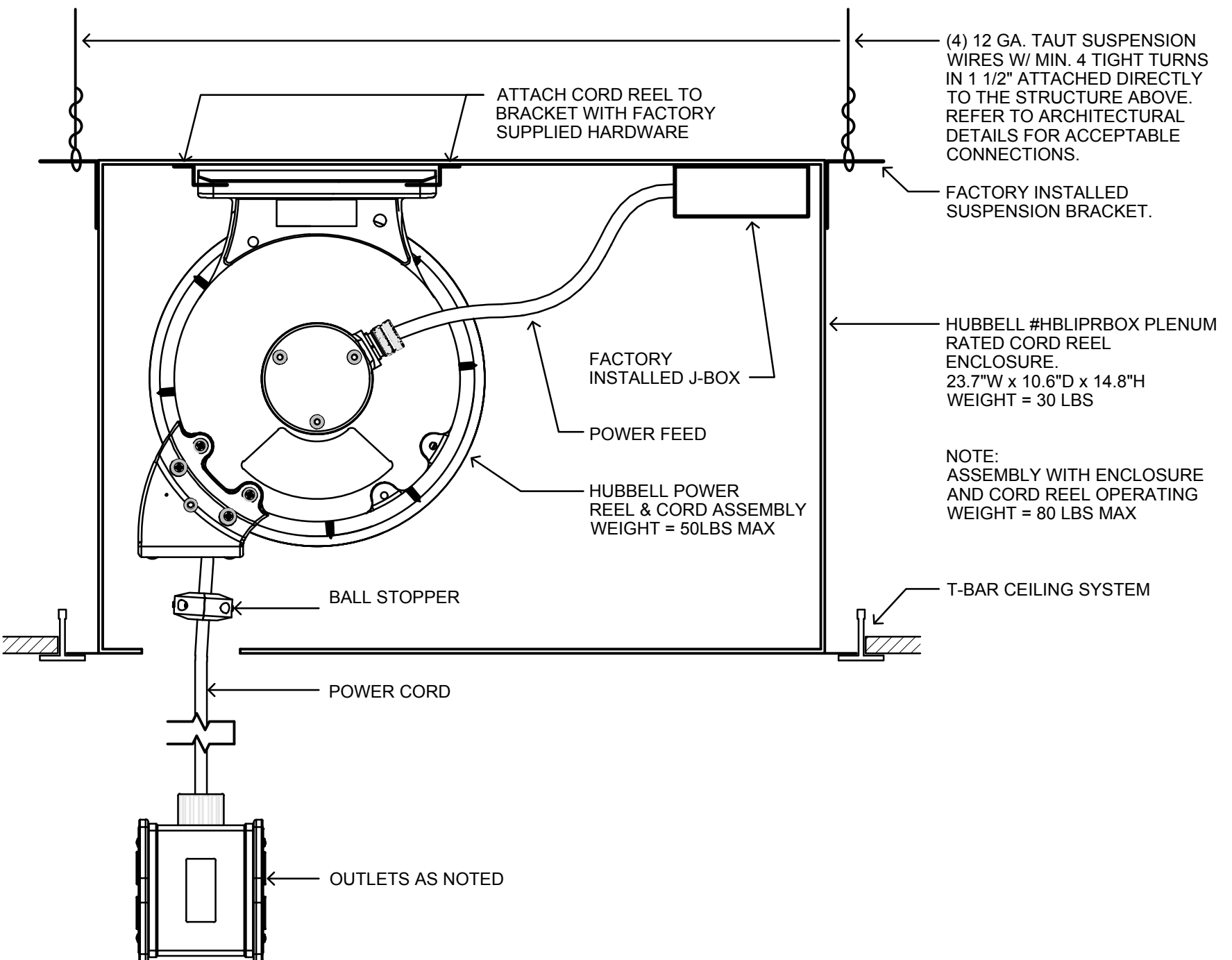
PANEL "BLIT" SCHEDULE 120/208V 3Φ 4W 22KAIC INDOOR / SURFACE. Table with columns: CKT. NO., DESCRIPTION, BREAKER AMPS POLES, VA, φ, VA, BREAKER AMPS POLES, DESCRIPTION, CKT. NO.

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

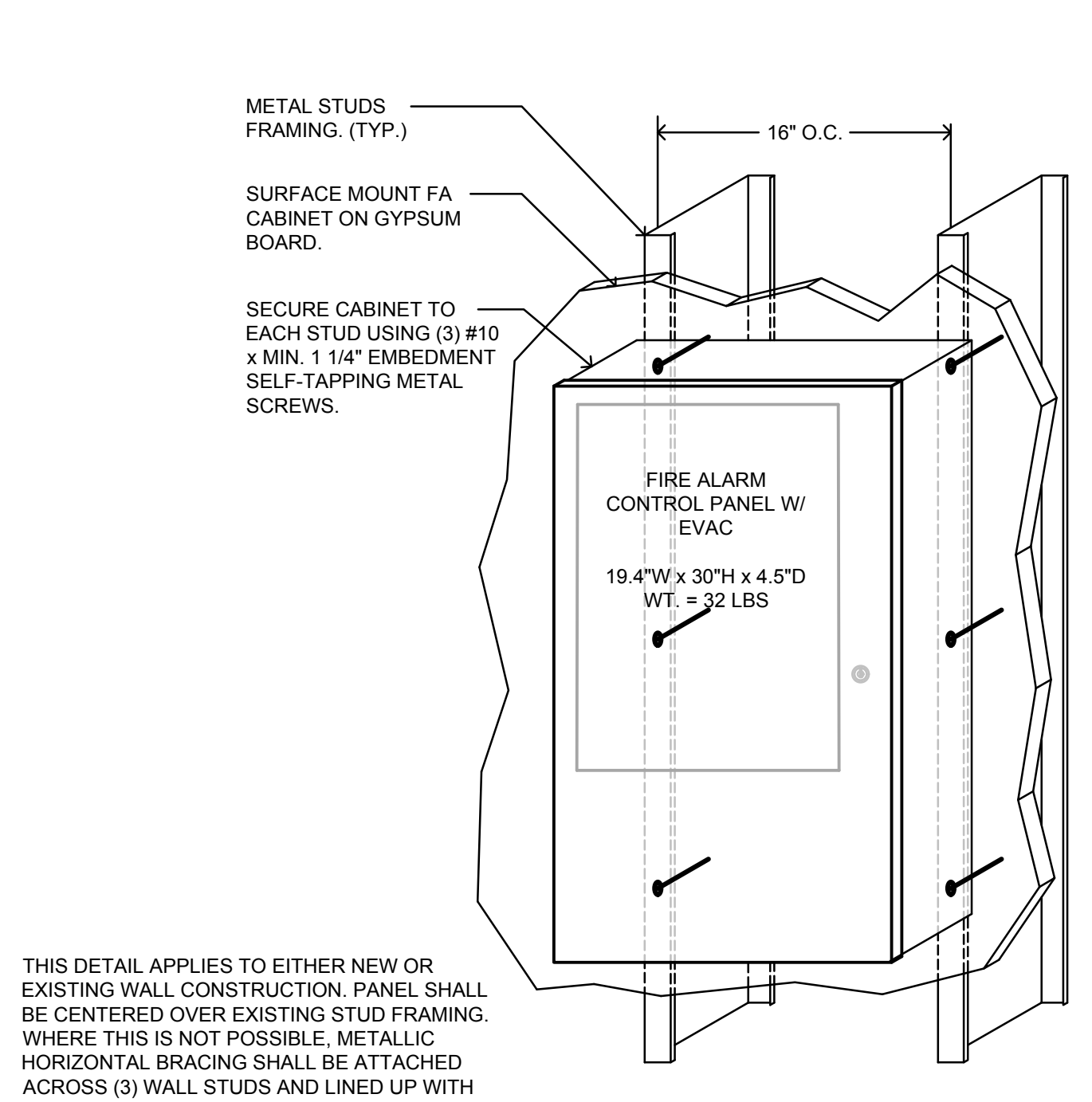
L1 Electrical Panel Mounting Detail
No Scale



F1 Projector Mounting Detail
No Scale



A1 Cord Reel & Enclosure Detail
No Scale



A6 Fire Alarm Control Panel Mounting Detail
No Scale

General Notes
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356 Polasky Ave., Suite 200, Clovis, CA 93612
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Project

Power Systems
Panel Schedules, Details
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Revision table with columns: No., Revision/Submission, Date, and a table for Design/Draw/Check/Review by and Date.

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PANEL "CH" SCHEDULE 277/480V 3Ø 4W 42KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "DH" SCHEDULE 277/480V 3Ø 4W 42KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "EH" SCHEDULE 277/480V 3Ø 4W 42KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "CL" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "DL" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "EL" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "CL1" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "DL1" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "EL1" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "CLIT" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "DLIT" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

PANEL "ELIT" SCHEDULE 120/208V 3Ø 4W 22KAIC INDOOR / SURFACE. Table with columns for CKT. NO., DESCRIPTION, BREAKER, VA, Φ, VA, BREAKER, DESCRIPTION, CKT. NO. Includes load summary and connected load information.

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

General Notes

Hardin-Davidson Engineering logo and contact information: 356 Polasky Ave., Suite 200, Clovis, CA 93612. Includes professional engineer seal.

McKinley/Fowler Elementary School Clovis Unified School District Fresno, CA 93727

Power Systems Panel Schedules

Darden Architects logo and contact information: 6790 N. West Ave., Fresno, CA 93711. Includes professional architect seal.

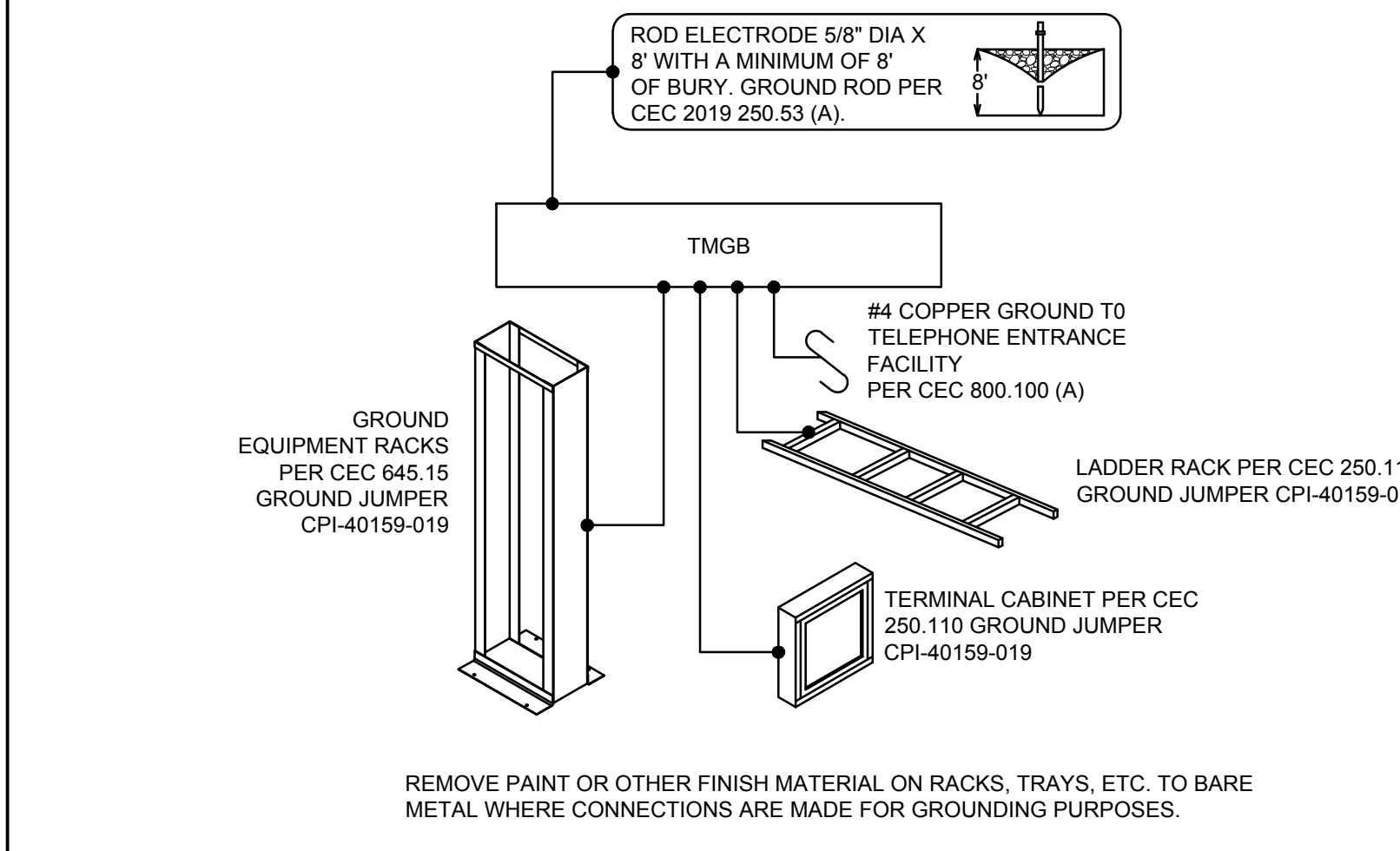
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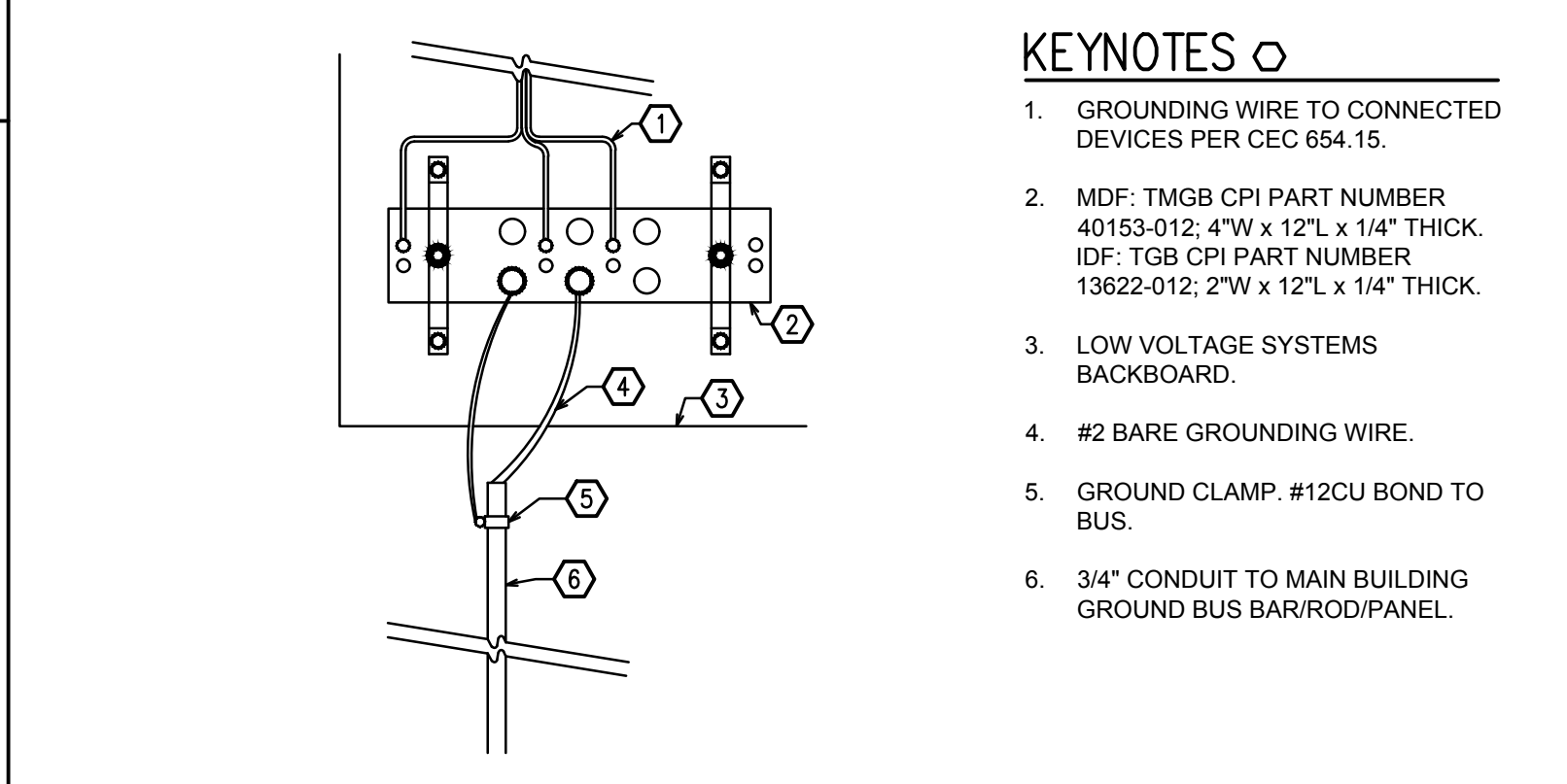
Scale: As indicated Drawn By: HDE Project Number: 2116 Checked By: SD Date: 09/19/2022 Reviewed By: SD Sheet: X/E303 of: 30

LOW VOLTAGE GENERAL SCOPE OF WORK

- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL DATA AND VOICE COMMUNICATIONS LOCAL AREA NETWORK (LAN), INCLUDING MAIN AND INTERMEDIATE DATA FRAMES, SITEWIDE SINGLEMODE FIBER OPTIC CABLING, COPPER CAT5 AND CAT6 CABLING, LABELING, LADDER RACKING, CABLE MANAGEMENT, TERMINATION OF ALL CABLES, PATCH PANELS AND CABLES, COMMUNICATIONS GROUND BUS BAR AND GROUND CONNECTION, UNINTERRUPTIBLE POWER SUPPLIES, DATA AND COMMUNICATION OUTLETS, WIRELESS ACCESS POINT OUTLETS, AND TESTING AND REPORTS FOR ALL INSTALLED CABLES, NETWORK ELECTRONICS SUCH AS GATEWAYS AND SWITCHES, AND PATCH CABLES SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. DELIVER REPORTS TO OWNER. REFER TO SPECIFICATIONS SECTIONS 270000, 270528, 271000, AND 272100. SEE DETAIL 370.3 FOR SITE FIBER OPTIC CABLING.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL PUBLIC ADDRESS SYSTEM, INCLUDING AUDIO/VIDEO INPUTS, AMPLIFIER RACK, AMPLIFIER AND RELATED ELECTRONICS, TERMINATION BLOCKS, SITE CABLING, SPEAKER CABLING, LABELING, PROGRAMMING, TESTING, AND REPORTS. THE SYSTEM SHALL BE INTERFACED WITH THE VOIP SYSTEM TO ALLOW ANNOUNCEMENTS AND WITH OTHER AUDIO/VIDEO SYSTEMS TO OVERRIDE THOSE SYSTEMS WHEN MAKING ANNOUNCEMENTS. REFER TO SPECIFICATIONS SECTIONS 270000 AND 270000. SEE DETAIL 470.3 FOR SITE COPPER CABLING.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL WIRELESS MASTER CLOCK SYSTEM, INCLUDING GATEWAY AND WIRELESS TRANSMITTERS, WALL CLOCKS, AND BATTERIES. REFER TO SPECIFICATIONS SECTIONS 270000 AND 275313.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE VIDEO SURVEILLANCE SYSTEM, INCLUDING NETWORK VIDEO RECORDERS, INTERFACE WITH THE LAN, POWER SUPPLIES, CATEGORY CABLING AND JACKS, LABELING, IP CAMERAS, HOUSINGS, MOUNTING HARDWARE, AND AIMING/FRAMING IMAGES, PROGRAMMING, TESTING, AND REPORTS. ONE NETWORK VIDEO RECORDER AND (30) CAMERAS SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. SYSTEM PROGRAMMING AND CONFIGURATION SHALL BE BY THE OWNER. THE LOCATIONS OF CAMERAS TO BE INSTALLED IN THE CAMERA OUTLETS SHOWN ON DRAWINGS SHALL BE DIRECTED BY THE DISTRICT. REFER TO SPECIFICATIONS SECTIONS 270000, 271000, AND 276000.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL MULTIPURPOSE ROOM AUDIO/VIDEO SYSTEM, TO INCLUDE EQUIPMENT RACK, POWER SEQUENCER, MIXER, AMPLIFIER, CABLING, LABELING, INPUT JACKS FOR MICROPHONE, AUDIO AND VIDEO, DATA JACKS, MICROPHONES AND ACCESSORIES, LOUDSPEAKERS, ASSISTIVE LISTENING SYSTEM WITH TRANSMITTER, ANTENNA, AND DEVICES, PROGRAMMING, TESTING, AND REPORTS. THE PROJECTOR SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. REFER TO SPECIFICATIONS SECTIONS 270000, 274040, AND 274220 (2.1) (B).
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL LIBRARY/MULTI-MEDIA AUDIO/VIDEO SYSTEM (EXCLUDES THE COMPUTER CLASSROOM), INCLUDING AUDIO/VIDEO INPUTS WITH HDMI AUDIO/VIDEO, VGA VIDEO, 3.5MM TRS AUDIO, AND USB, AND THE RELATED OUTPUTS LOCATED CONCEALED AT THE PROJECTOR MOUNT HOUSING, AUDIO, VIDEO, AND ACTIVE USB CABLES, DATA JACKS, WIRELESS MEDIA CONVERTERS, AND ACTIVE USB CABLES SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. REFER TO SPECIFICATIONS SECTION 270000 AND 274200 (2.1) (B), (C). THE LIBRARY/MULTI-MEDIA WILL USE A CEILING MOUNT PROJECTOR INSTALLED PER 1/2.0 INSTEAD OF THE SHORT-THROW PROJECTOR LISTED IN THE SPEC.
- THE CONTRACTOR SHALL PROVIDE COMPLETE AND OPERATIONAL CLASSROOM AUDIO/VIDEO SYSTEMS, INCLUDING AUDIO/VIDEO INPUTS WITH HDMI AUDIO/VIDEO, VGA VIDEO, 3.5MM TRS AUDIO, AND USB, AND THE RELATED OUTPUTS LOCATED CONCEALED AT THE PROJECTOR MOUNT HOUSING, AUDIO, VIDEO, AND ACTIVE USB CABLES, DATA JACKS, WIRELESS MEDIA CONVERTER, INSTALLATION OF ALL COMPONENTS, SETUP, PROGRAMMING, TESTING, AND REPORTS. PROJECTORS, WIRELESS MEDIA CONVERTERS, AND ACTIVE USB JACKS SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. REFER TO SPECIFICATIONS SECTION 270000 AND 274200 (2.1) (A).
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL, TOTAL COVERAGE, FIRE ALARM SYSTEM WITH EMERGENCY VOICE/ALARM COMMUNICATIONS, TO INCLUDE CONTROL PANELS, ANNUNCIATORS, OPERATING CONSOLES, POWER SUPPLIES, AMPLIFIERS, PULL STATIONS, SMOKE AND HEAT DETECTION DEVICES, ADDRESSABLE INPUT AND OUTPUT MODULES, SPEAKER STROBES, SPEAKERS, NFPA STYLE 7 NETWORK WITH DEDICATED 8-STRAND SINGLE MODE FIBER OPTIC CABLING, LOCAL COPPER CABLING, LABELING, PROGRAMMING, TESTING, AND REPORTS. DELIVER REPORTS TO OWNER FOR REVIEW. REFER TO SECTION 283100.
- THE CONTRACTOR SHALL PROVIDE COMPLETE AND OPERATIONAL TELEVISION AUDIO/VIDEO SYSTEMS, INCLUDING AUDIO/VIDEO INPUTS WITH HDMI AUDIO/VIDEO AND THE RELATED OUTPUTS LOCATED CONCEALED BEHIND THE TELEVISION, AUDIO/VIDEO CABLES, DATA JACKS, WIRELESS MEDIA CONVERTER, INSTALLATION OF ALL COMPONENTS, SETUP, PROGRAMMING, TESTING, AND REPORTS. TELEVISIONS, MOUNTING BRACKETS, AND WIRELESS MEDIA CONVERTERS SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.

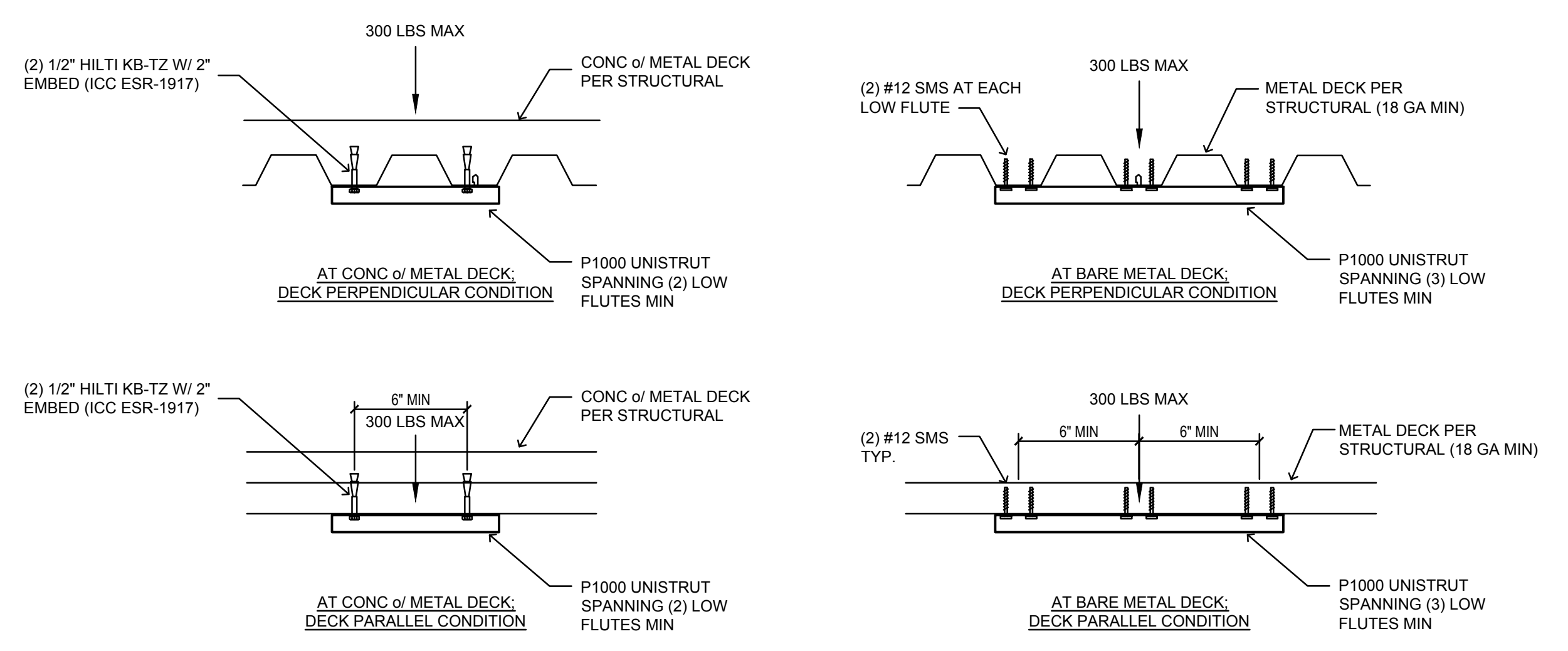


N8 Telecom Main Grounding Bus (TMGB) Building Grounding Detail
No Scale

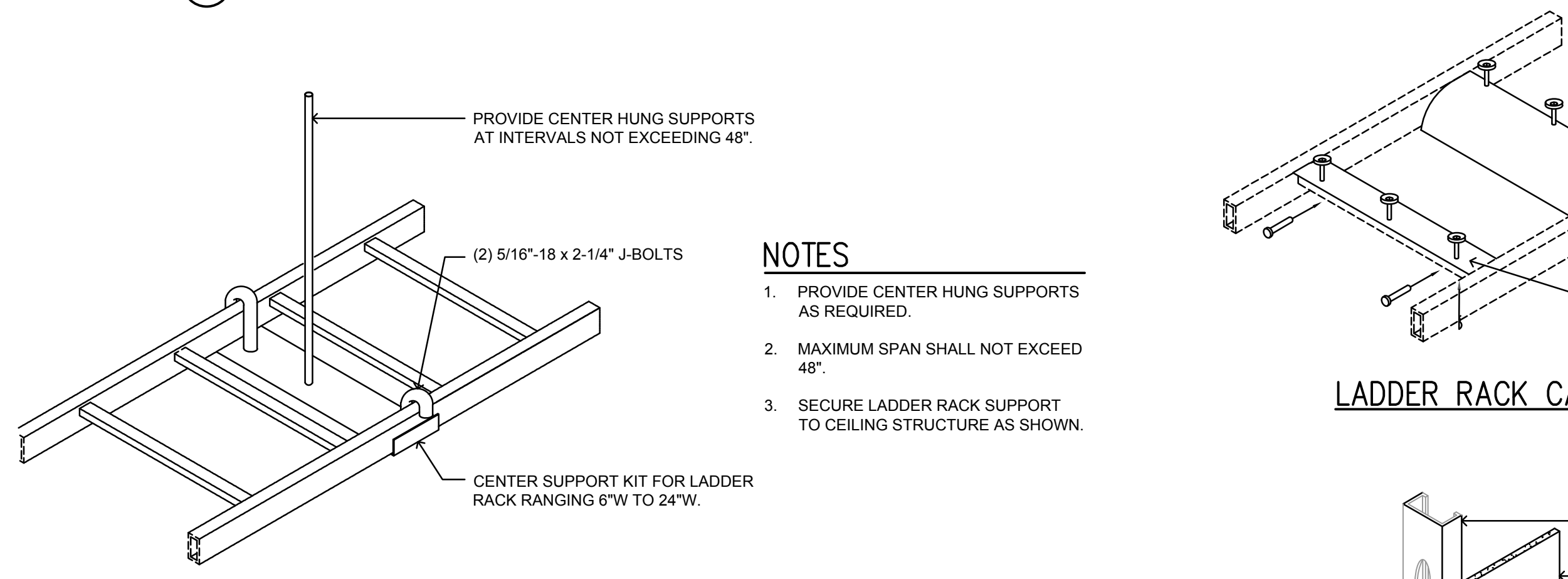


J8 Telecom Main Grounding Bus (TMGB) Installation Detail
No Scale

- | | | |
|---|---|--|
| <p>PLYWOOD INSTALLATION NOTES:</p> <ol style="list-style-type: none"> INSTALL 3/4" FIRE RESISTANT, PAINTED PLYWOOD BACKBOARD AT INTERIOR OF ROOM WHERE SHOWN. SECURE PLYWOOD TO #10 METAL STUDS WITH #10 x 3" COUNTERSUNK SMS AT 8" CENTERS. | <p>LADDER RACK NOTES:</p> <ol style="list-style-type: none"> THE MAXIMUM CABLE WEIGHT FOR THIS SYSTEM SHALL NOT EXCEED 50 POUNDS PER LINEAR FOOT. THE COMBINED WEIGHT OF THE CABLE AND LADDER RACK SYSTEM SHALL NOT EXCEED 75 POUNDS PER LINEAR FOOT. CONTRACTOR TO PROVIDE SYSTEM THAT DOES NOT REQUIRE SEISMIC BRACING OR DEFERRED APPROVAL FOR THE SELECTED SYSTEM REQUIREMENTS. | <p>GROUNDING NOTES:</p> <ol style="list-style-type: none"> BOND ALL LADDER RACK SECTIONS AND RACKS TOGETHER AND TO TMGB. REMOVE PAINT FROM COMPONENTS PRIOR TO ATTACHING GROUND LUGS. |
|---|---|--|



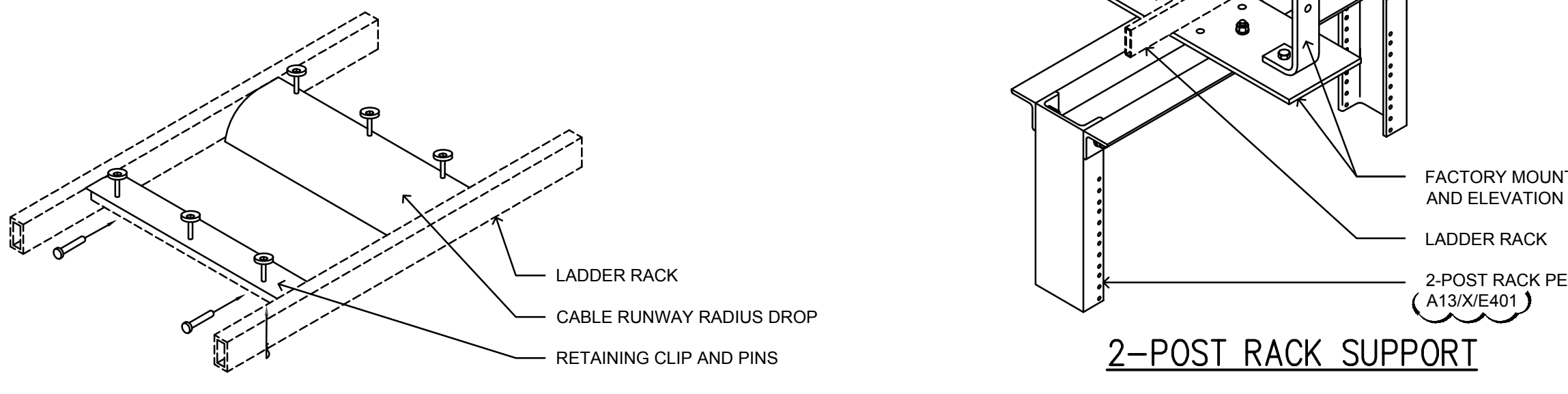
UNISTRUT ATTACHMENT TO STRUCTURE



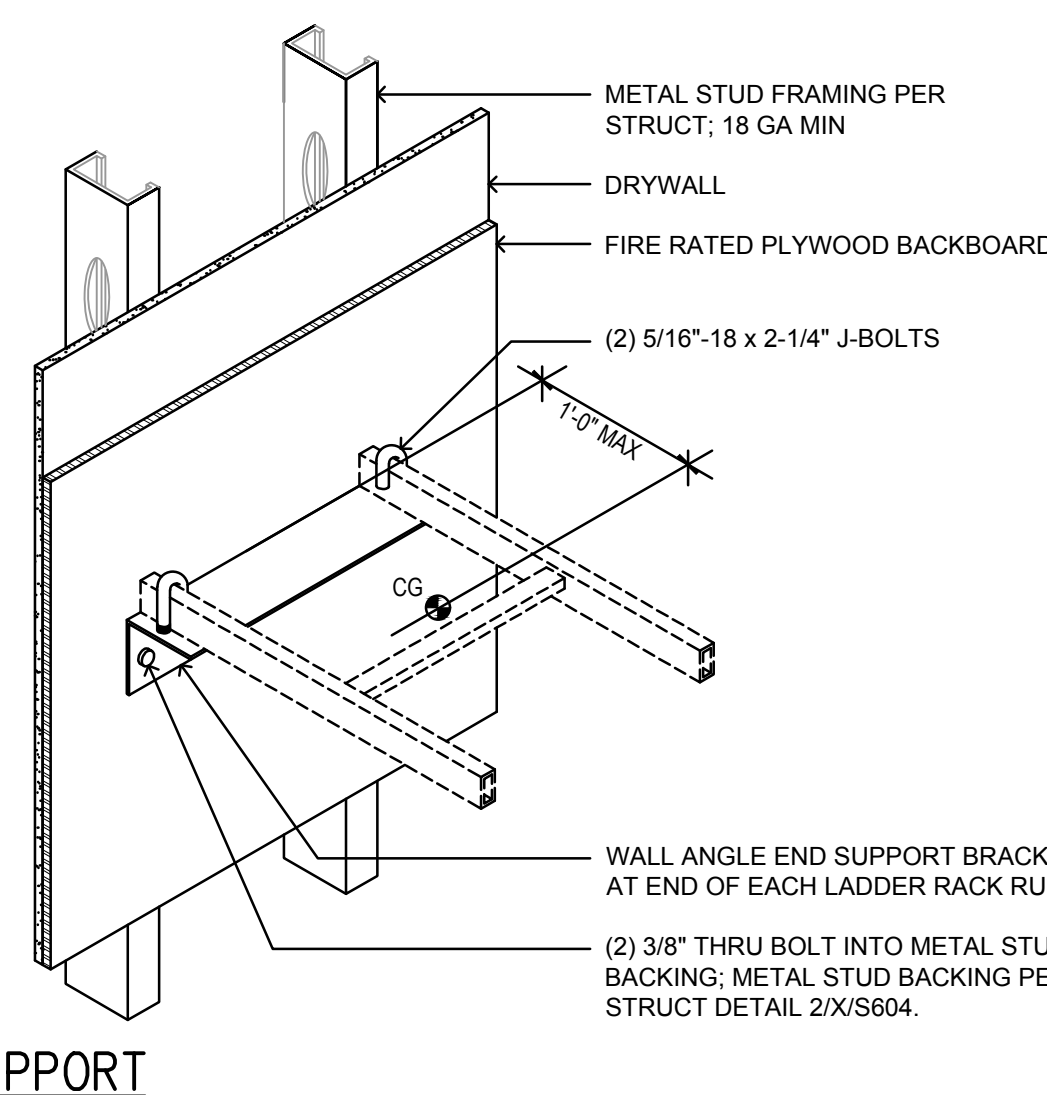
NOTES

- PROVIDE CENTER HUNG SUPPORTS AS REQUIRED.
- MAXIMUM SPAN SHALL NOT EXCEED 48\".
- SECURE LADDER RACK SUPPORT TO CEILING STRUCTURE AS SHOWN.

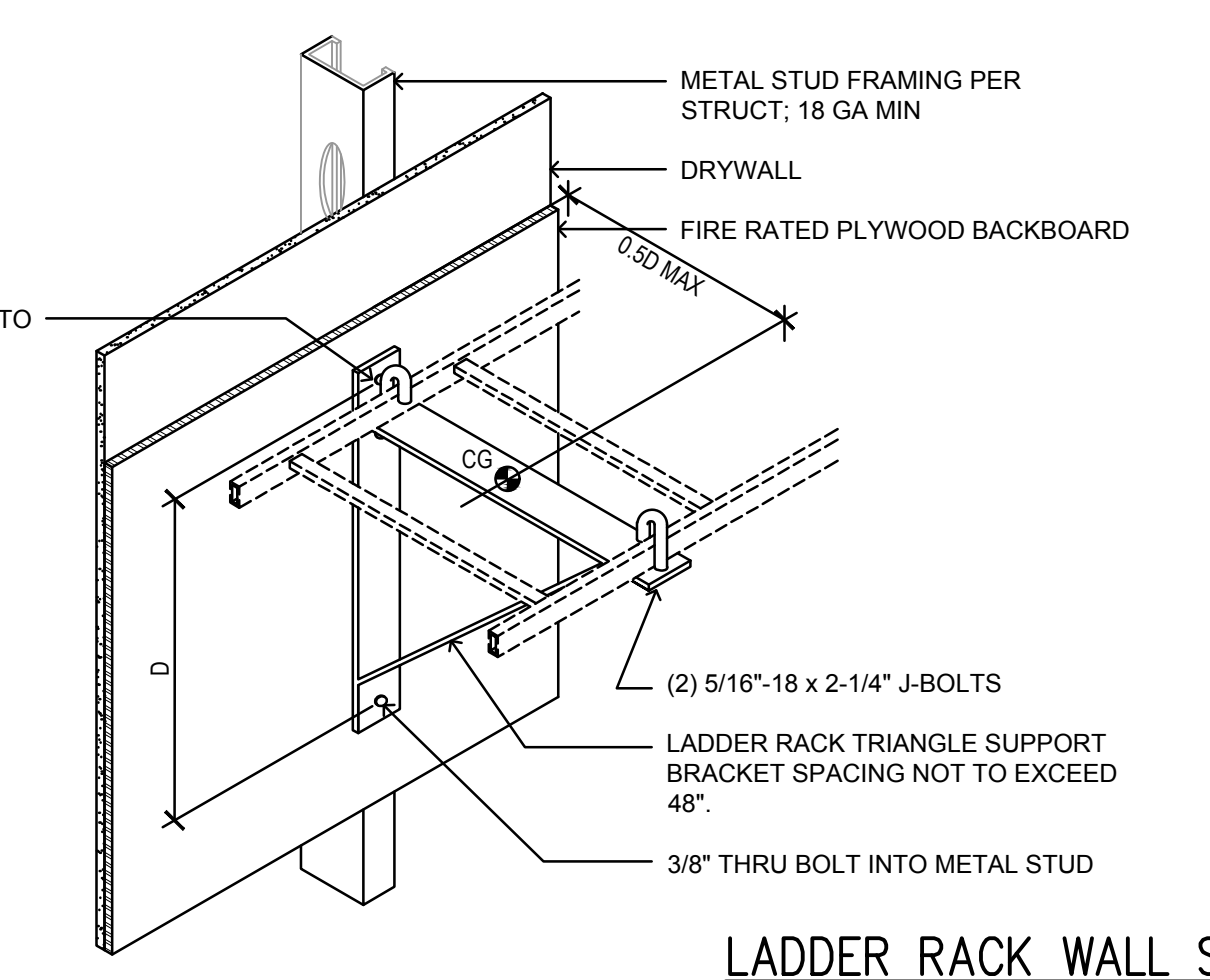
LADDER RACK CABLE TRANSITION



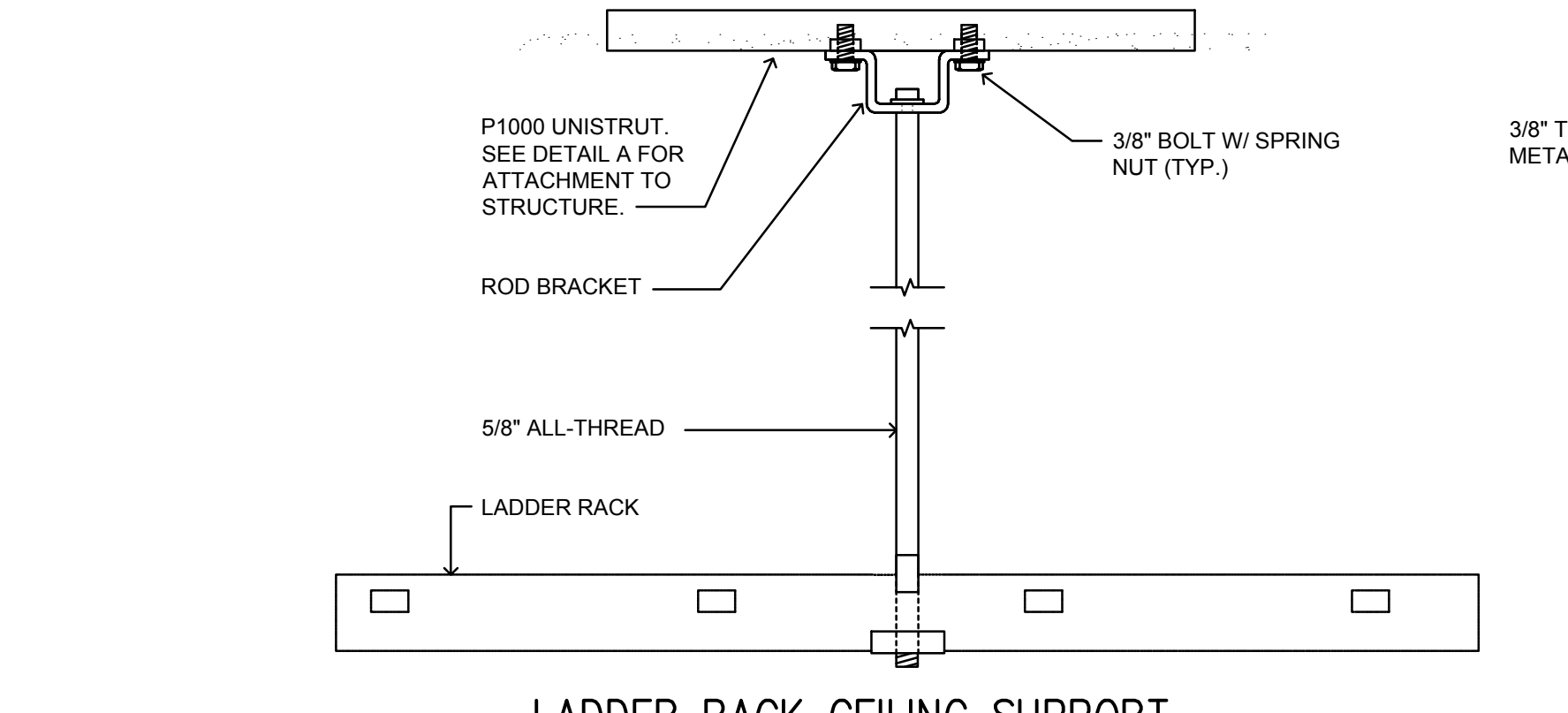
2-POST RACK SUPPORT



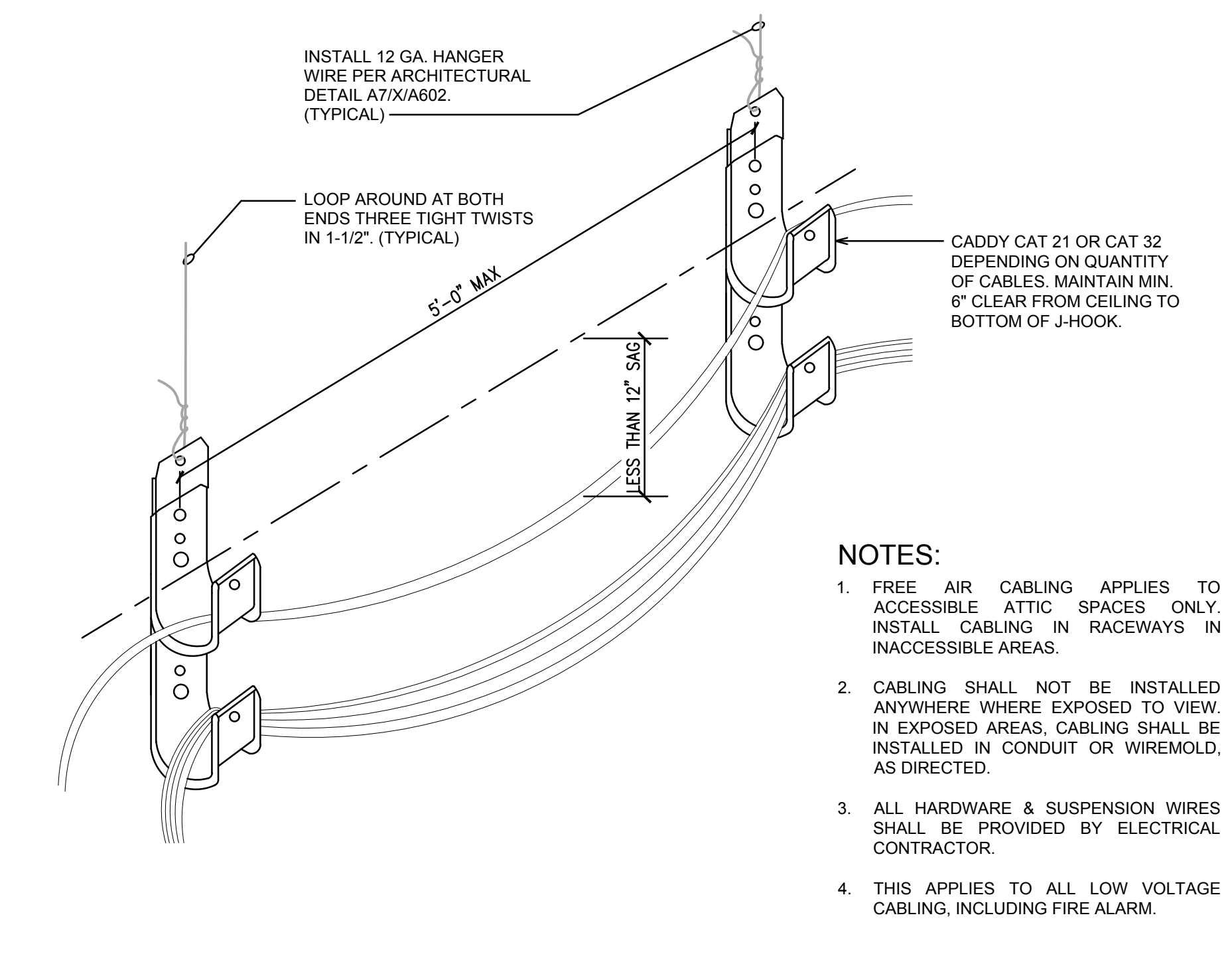
LADDER RACK WALL SUPPORT



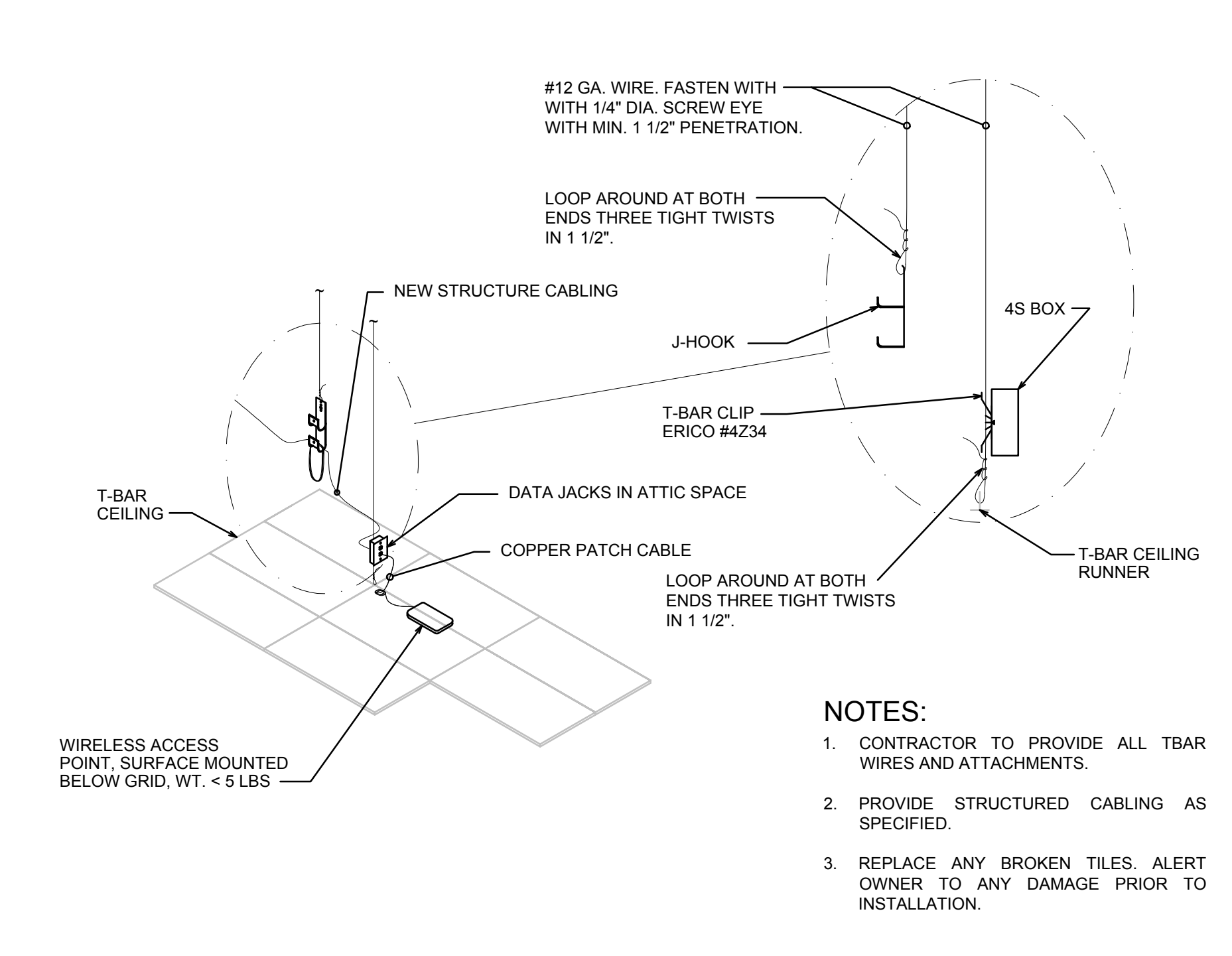
LADDER RACK CEILING SUPPORT



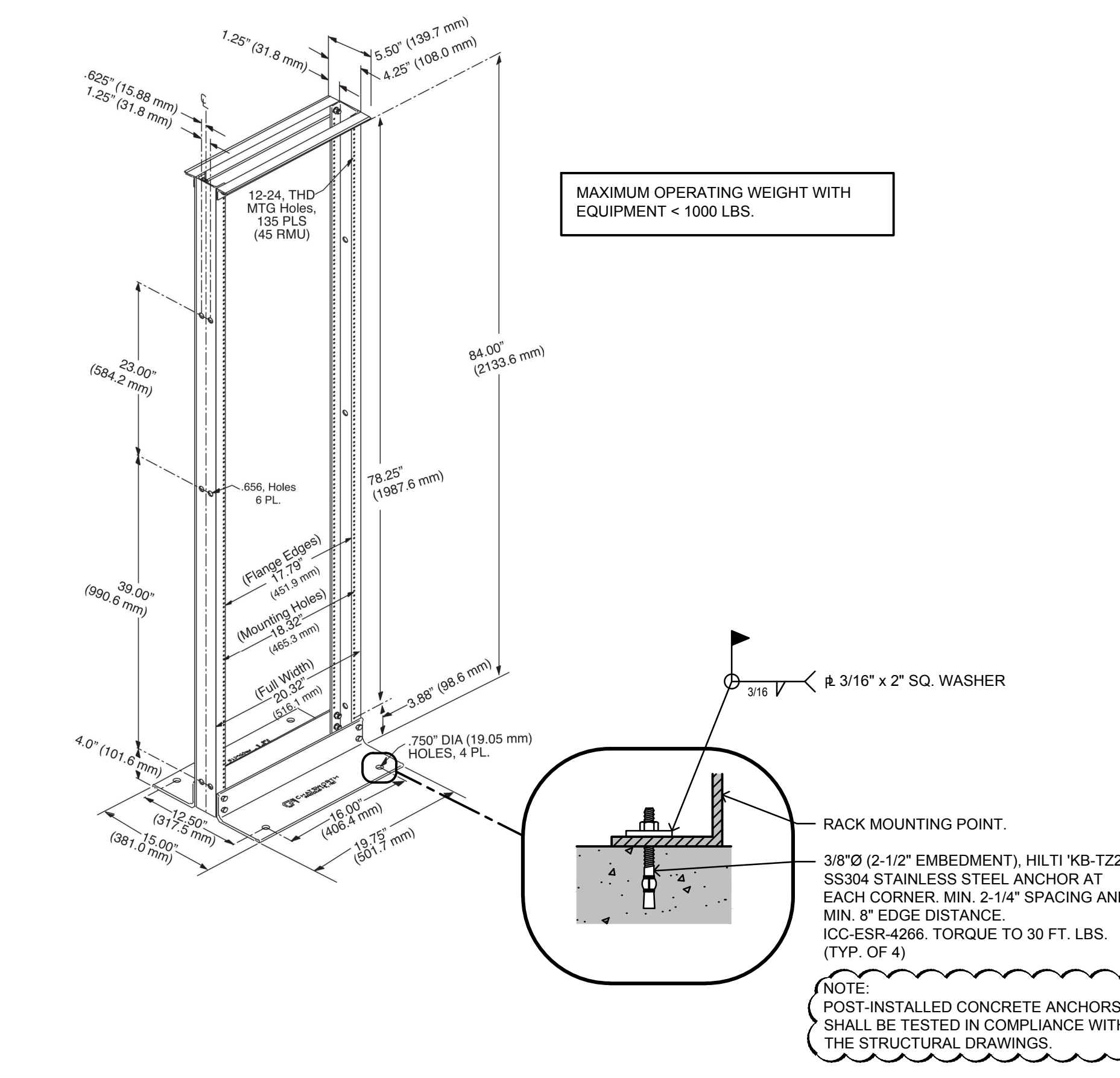
A1 Ladder Rack Installation Detail
No Scale



M13 J-Hook Cabling Support Detail
No Scale



G13 Wireless Access Point Data Jacks Detail
No Scale



A13 2-Post Rack Mounting Detail
No Scale

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

General Notes

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Low Voltage Systems
Details and Diagrams
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No.	Revision/Submission	Date
2	Addendum #2	02/24/23

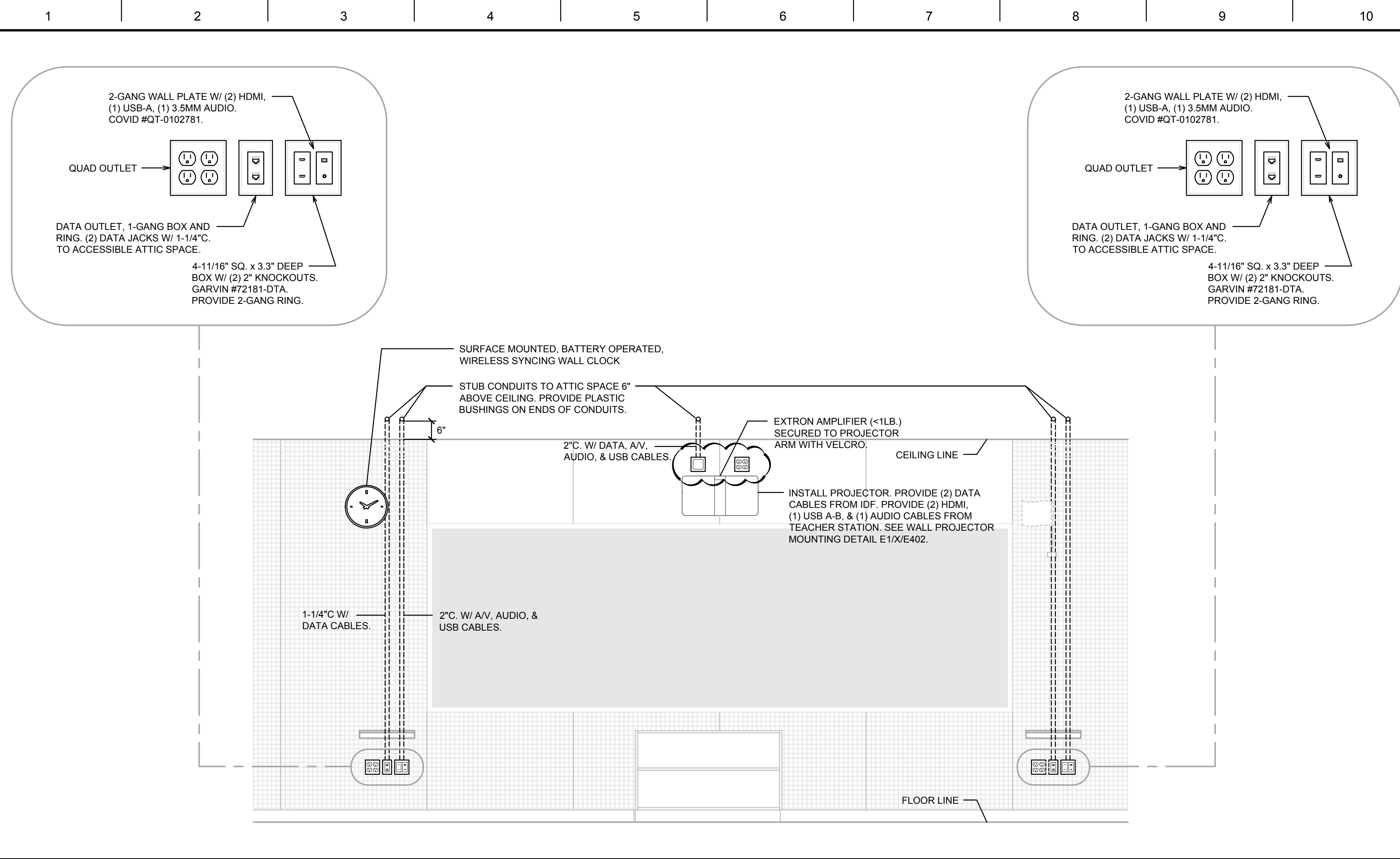
Revision

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Scale: As indicated
Drawn By: HDE
Project Number: 2116
Checked By: SD
Date: 09/19/2022
Reviewed By: SD

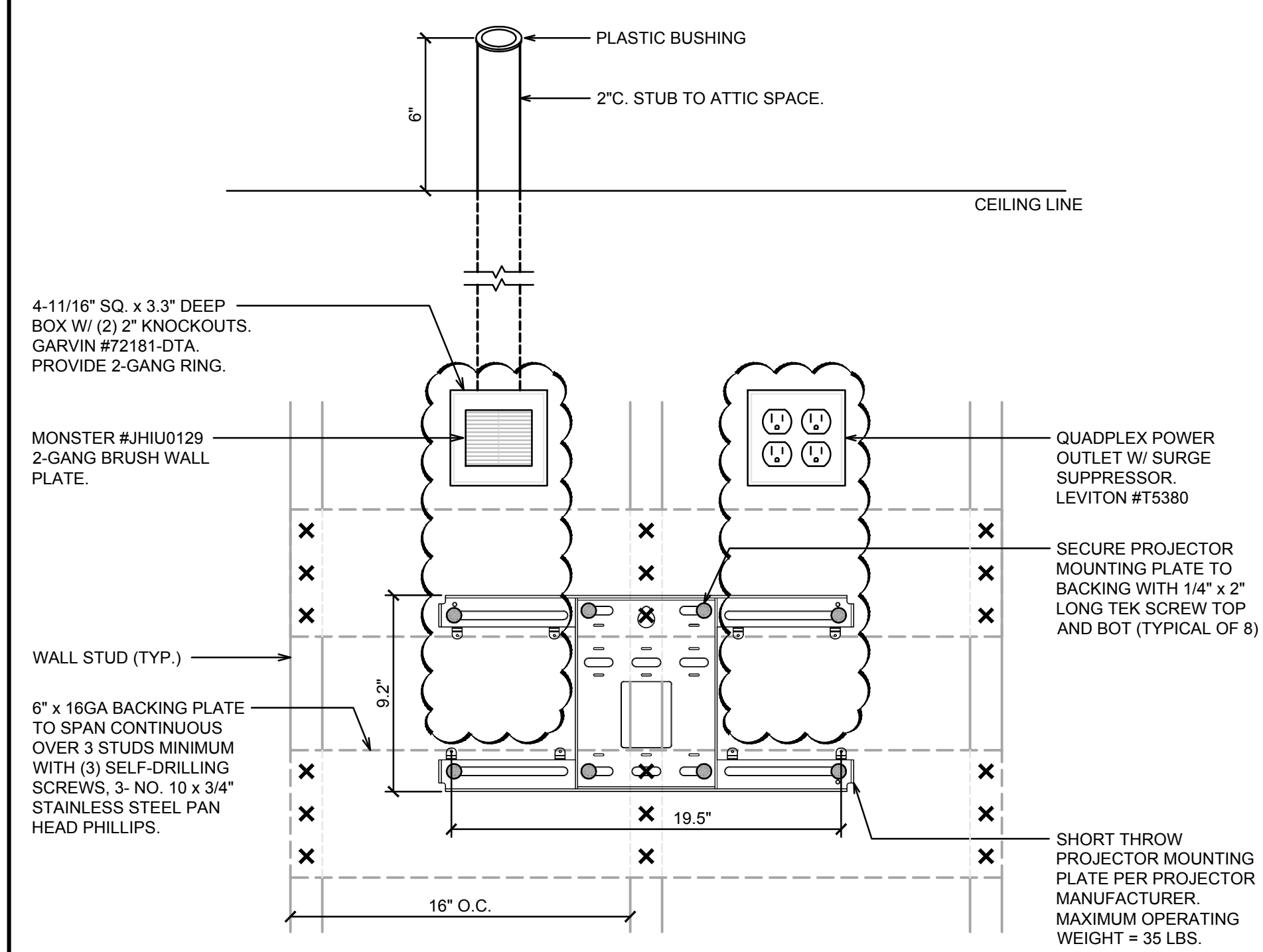
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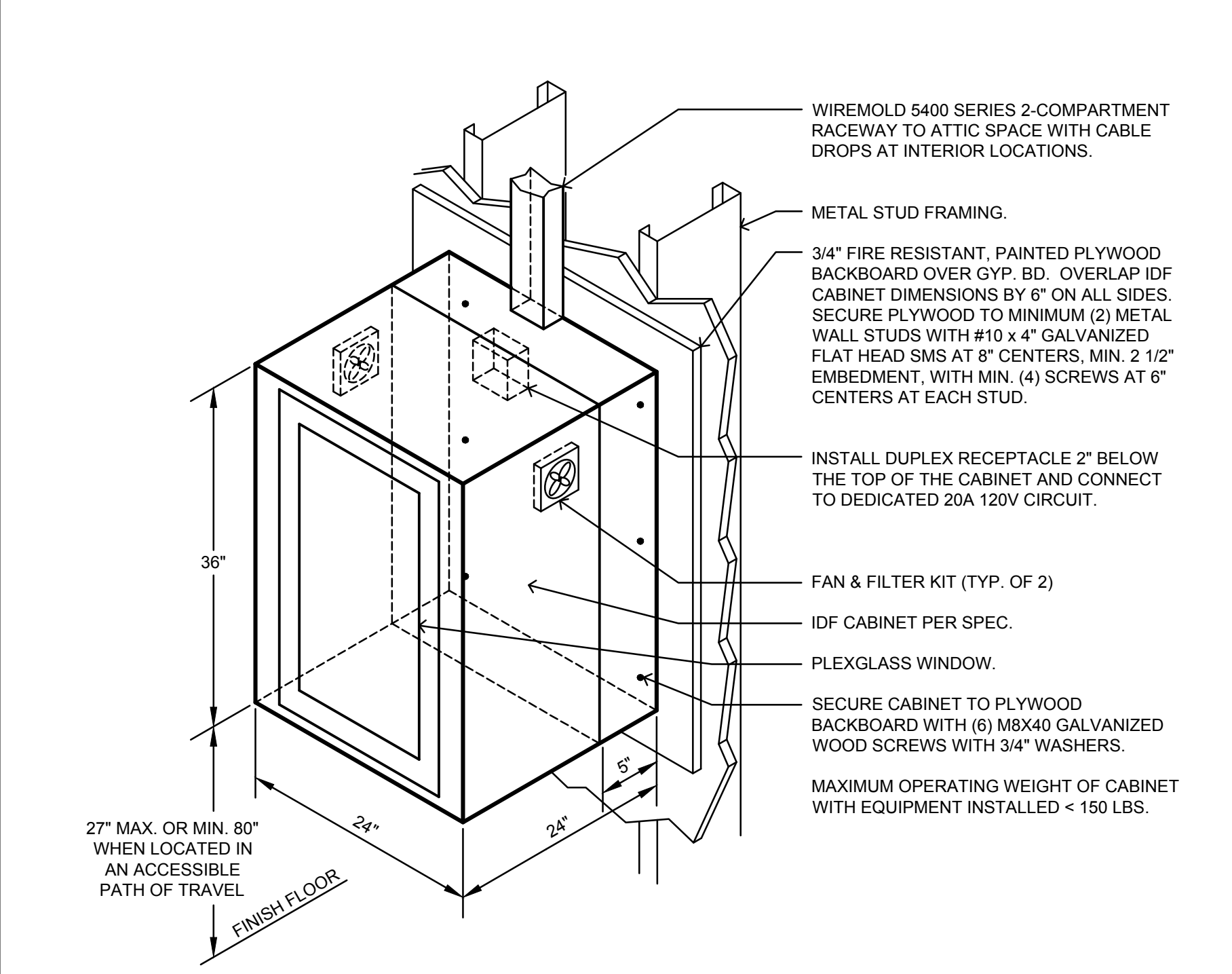
K1 TYPICAL TEACHING WALL ELEVATION

No Scale



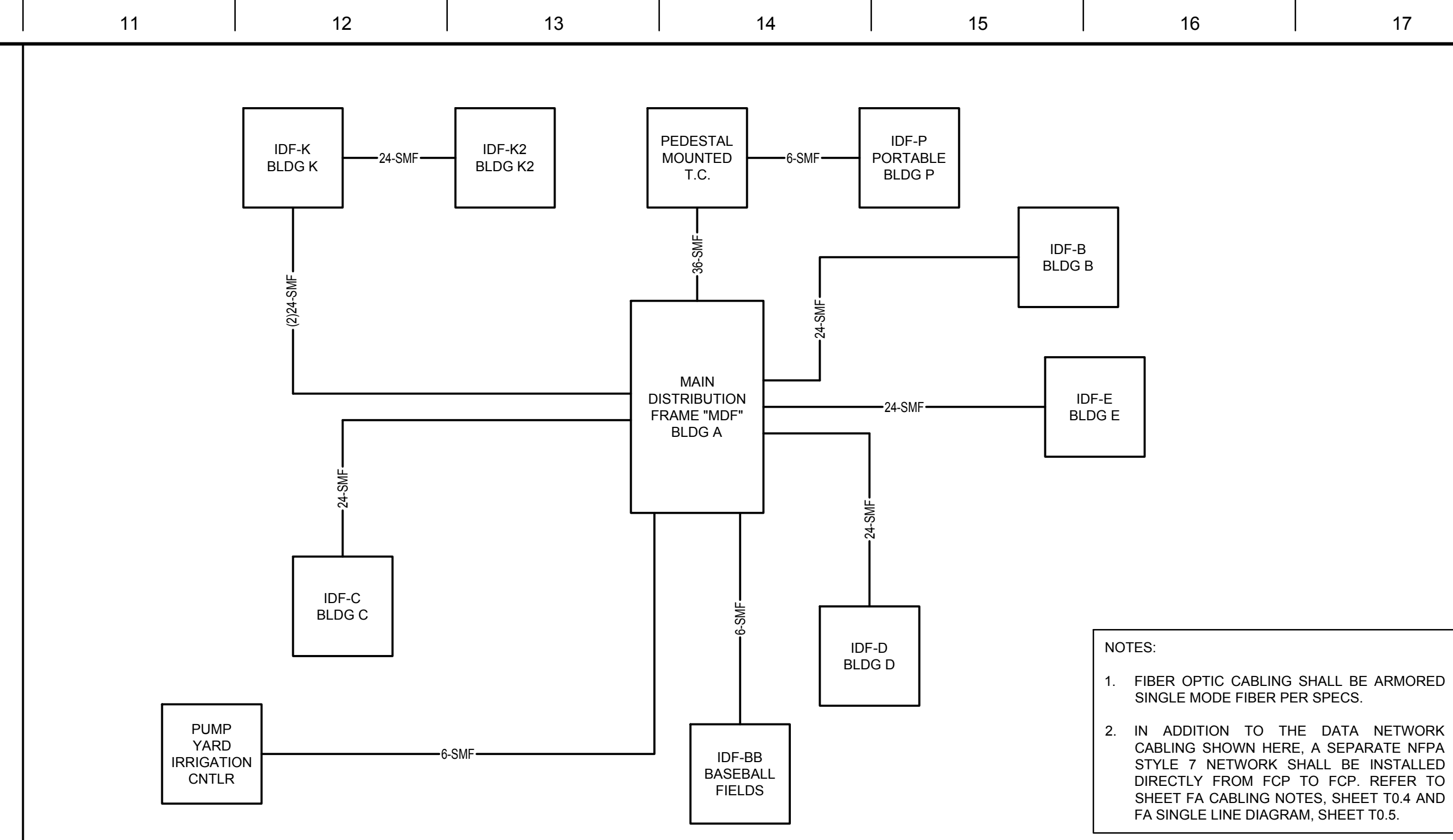
E1 WALL PROJECTOR MOUNTING DETAIL

No Scale



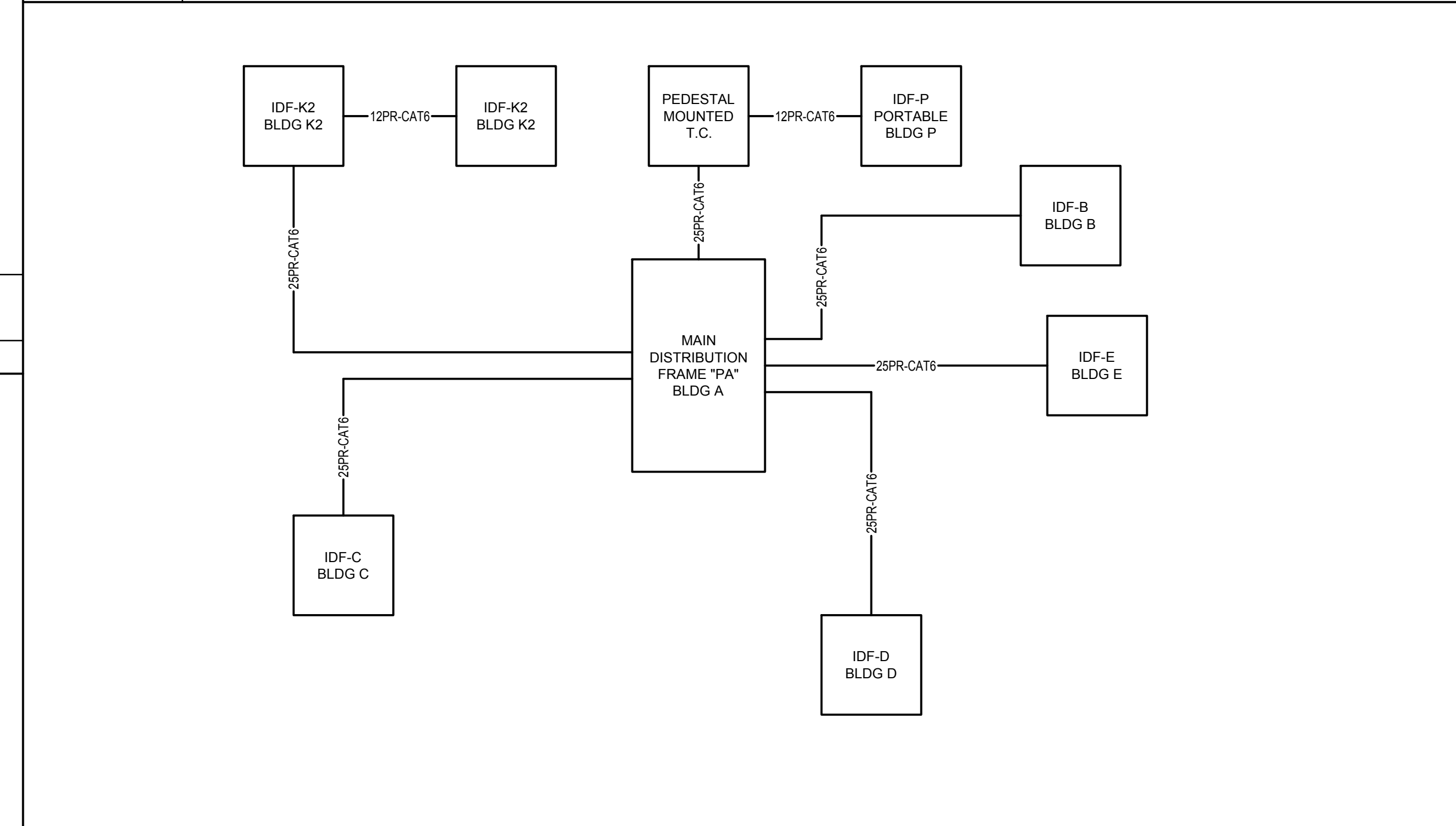
E6 IDF or AV Cabinet Mounting Detail

No Scale



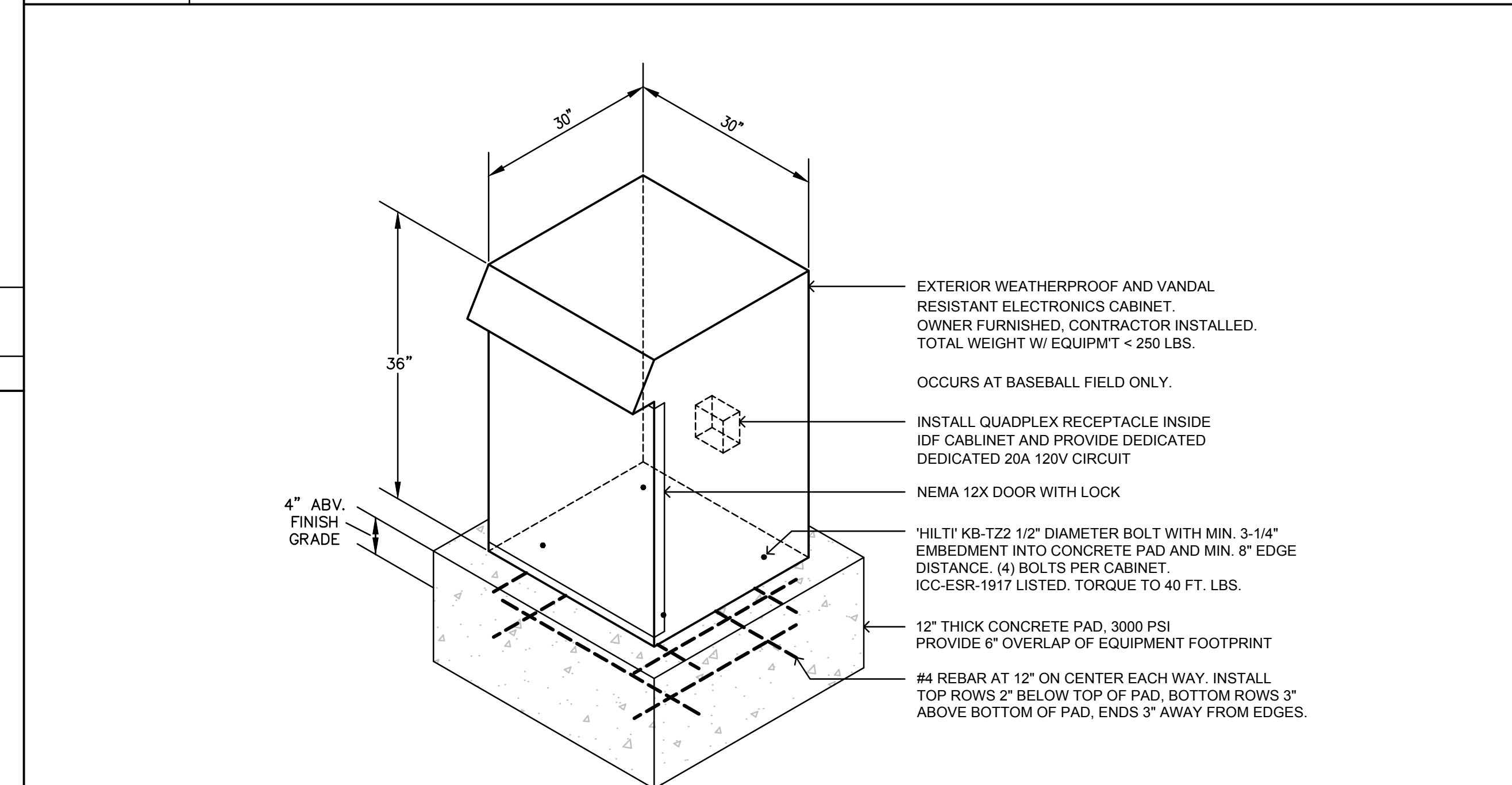
M11 SITE FIBER OPTIC CABLE LINE DIAGRAM

No Scale



G11 SITE COPPER CABLE LINE DIAGRAM

No Scale



B11 EXTERIOR IDF CABINET MOUNTING DETAIL

No Scale

DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

NOTES:

- FIBER OPTIC CABLING SHALL BE ARMORED SINGLE MODE FIBER PER SPECS.
- IN ADDITION TO THE DATA NETWORK CABLING SHOWN HERE, A SEPARATE NFPA STYLE 7 NETWORK SHALL BE INSTALLED DIRECTLY FROM FCP TO FCP. REFER TO SHEET FA CABLING NOTES, SHEET T0.4 AND FA SINGLE LINE DIAGRAM, SHEET T0.5.

General Notes

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Consultant

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 E17850
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 STATE OF CALIFORNIA

McKinley/Fowler Elementary School
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 Fresno, CA 93727

Project

Low Voltage Systems
 Details and Diagrams

Drawing

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Architect

REGISTERED ARCHITECT
 DARDEN
 No. C37192
 State of California

No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

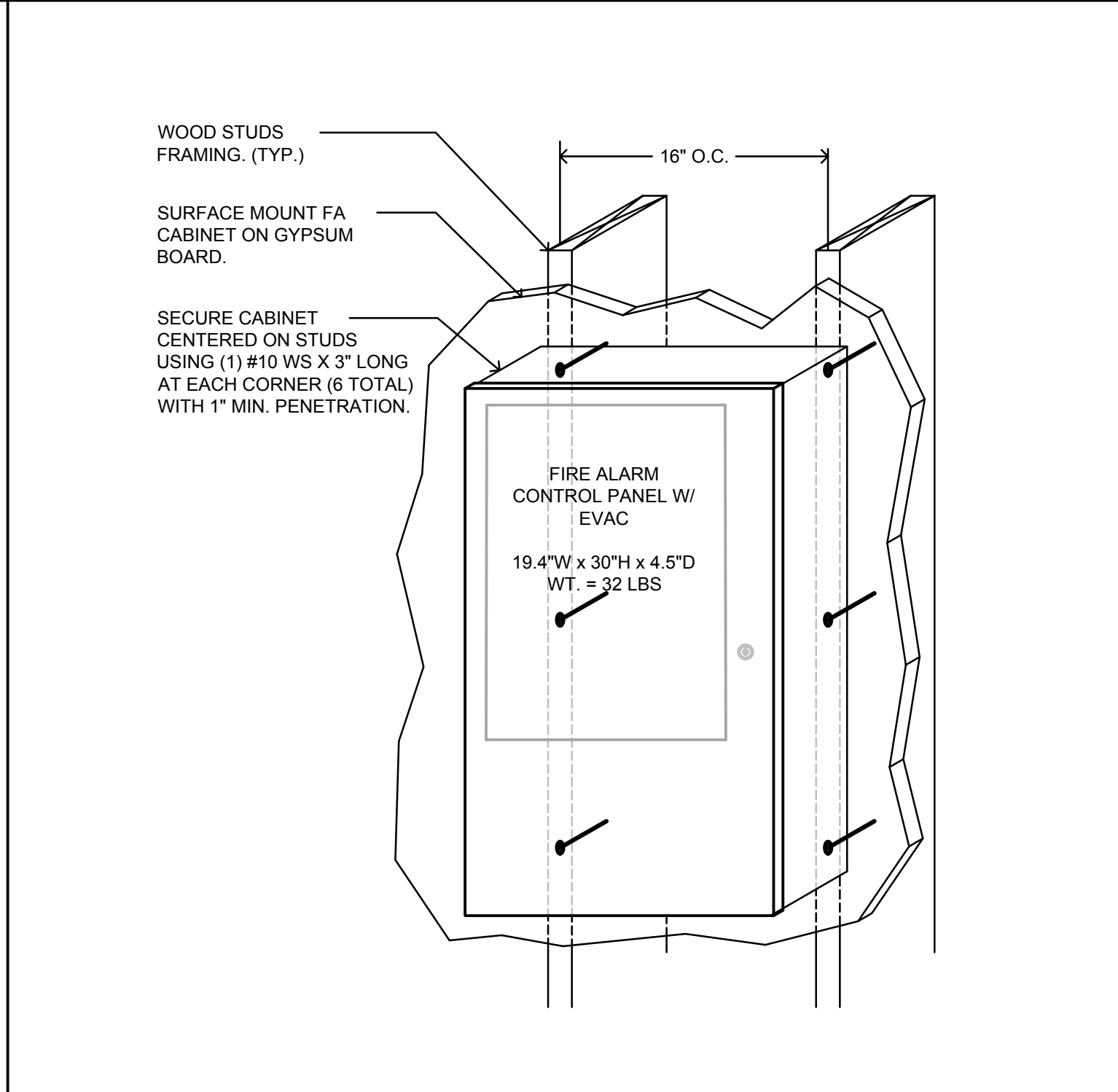
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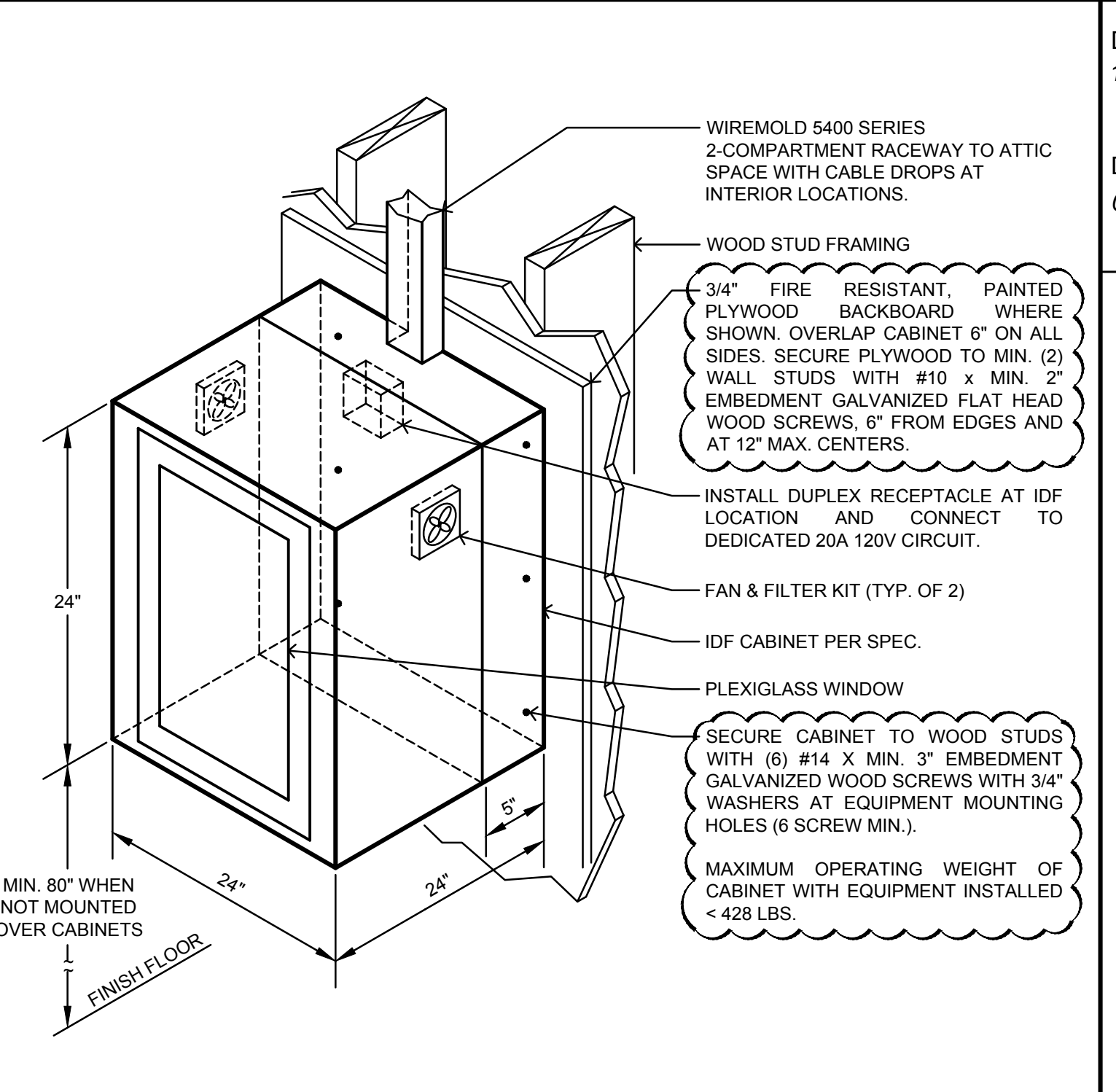
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Date: 09/19/2022 Reviewed By: SD Sheet: _____ of: _____

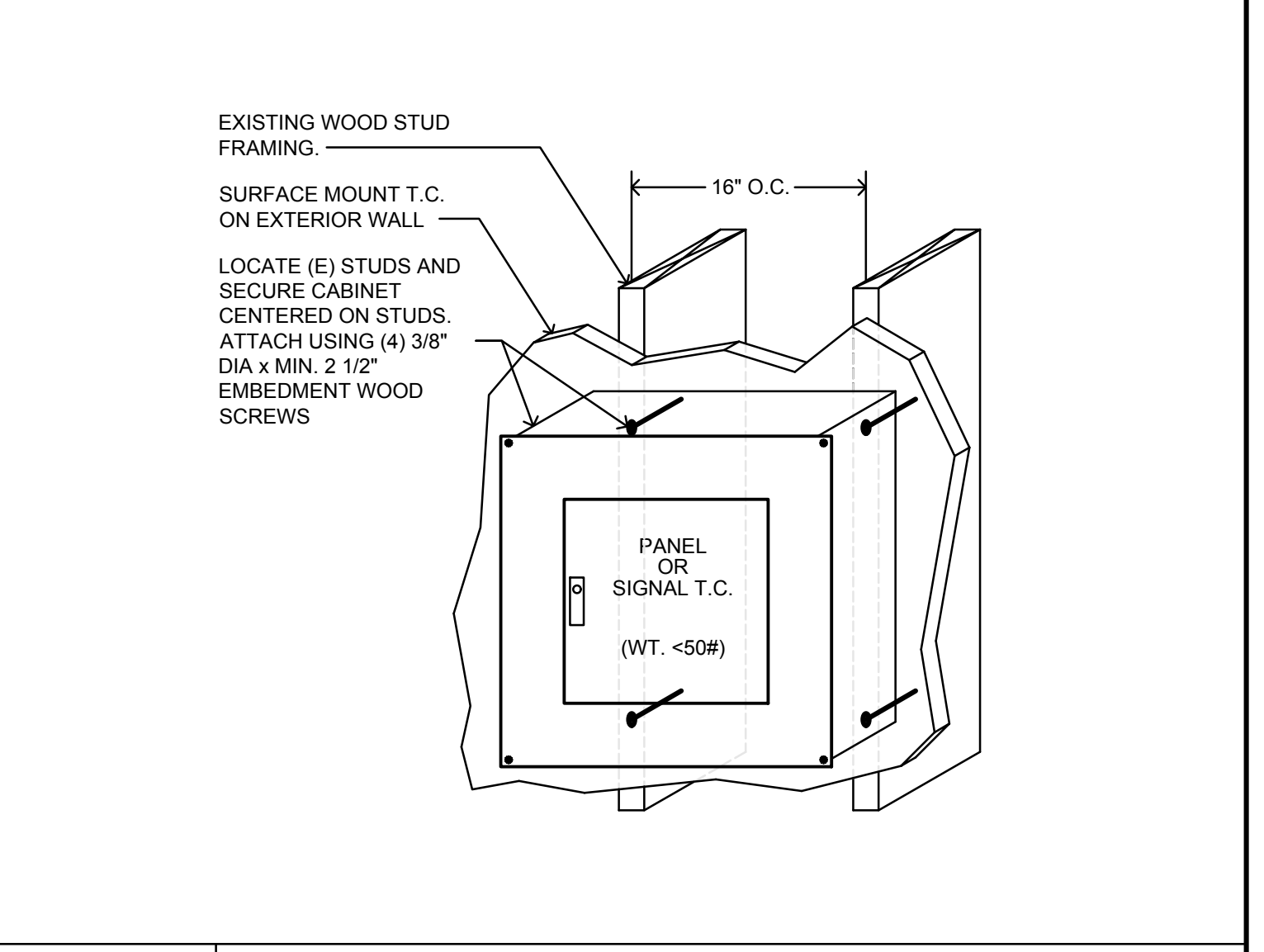
R
Q
P
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A



M10 Fire Alarm Control Panel Mounting Detail
No Scale



M14 IDF Cabinet Mounting Detail
No Scale



H14 Terminal Cabinet Mounting Detail
No Scale

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

Agency Approval

General Notes

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www.hardin-davidson.com
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Clovis Unified School District
Fresno, CA 93727
Project

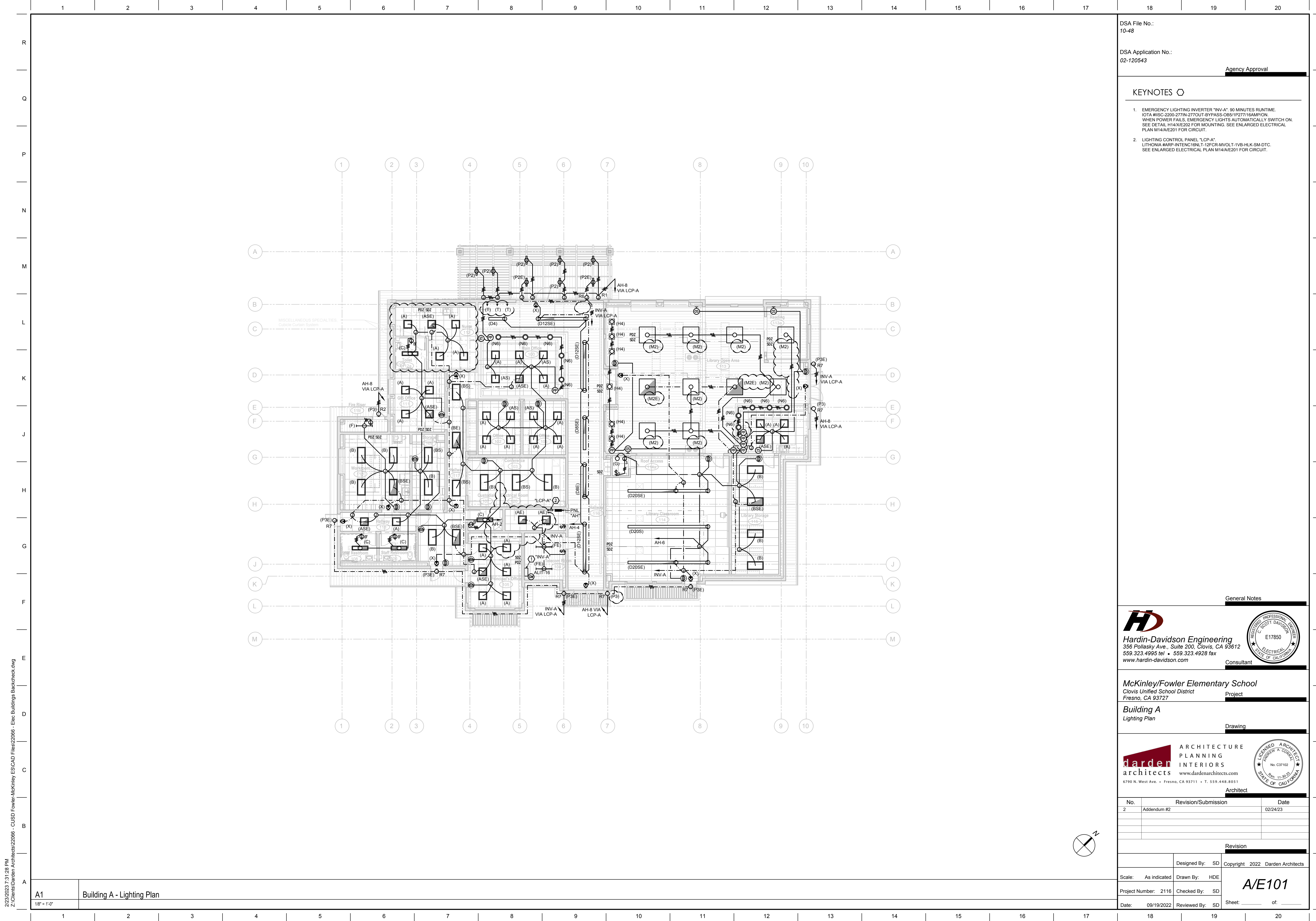
Low Voltage Systems
Details
Drawing

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2	Addendum #2	02/24/23

Revision
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Project Number: 2116 Checked By: SD
Date: 09/19/2022 Reviewed By: SD
X/E403
Sheet: _____ of: _____



DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- KEYNOTES**
- EMERGENCY LIGHTING INVERTER "INV-A": 90 MINUTES RUNTIME. IOTA #ISC-2200-277IN-277OUT-BYPASS-OBS1P277/16AMP/ION. WHEN POWER FAILS, EMERGENCY LIGHTS AUTOMATICALLY SWITCH ON. SEE DETAIL H14/E202 FOR MOUNTING. SEE ENLARGED ELECTRICAL PLAN M14/A/E201 FOR CIRCUIT.
 - LIGHTING CONTROL PANEL "LCP-A": LITHONIA #ARP-INTENC16NLT-12FCR-MVOLT-1VB-HLK-SM-DTC. SEE ENLARGED ELECTRICAL PLAN M14/A/E201 FOR CIRCUIT.

General Notes

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Building A
 Lighting Plan
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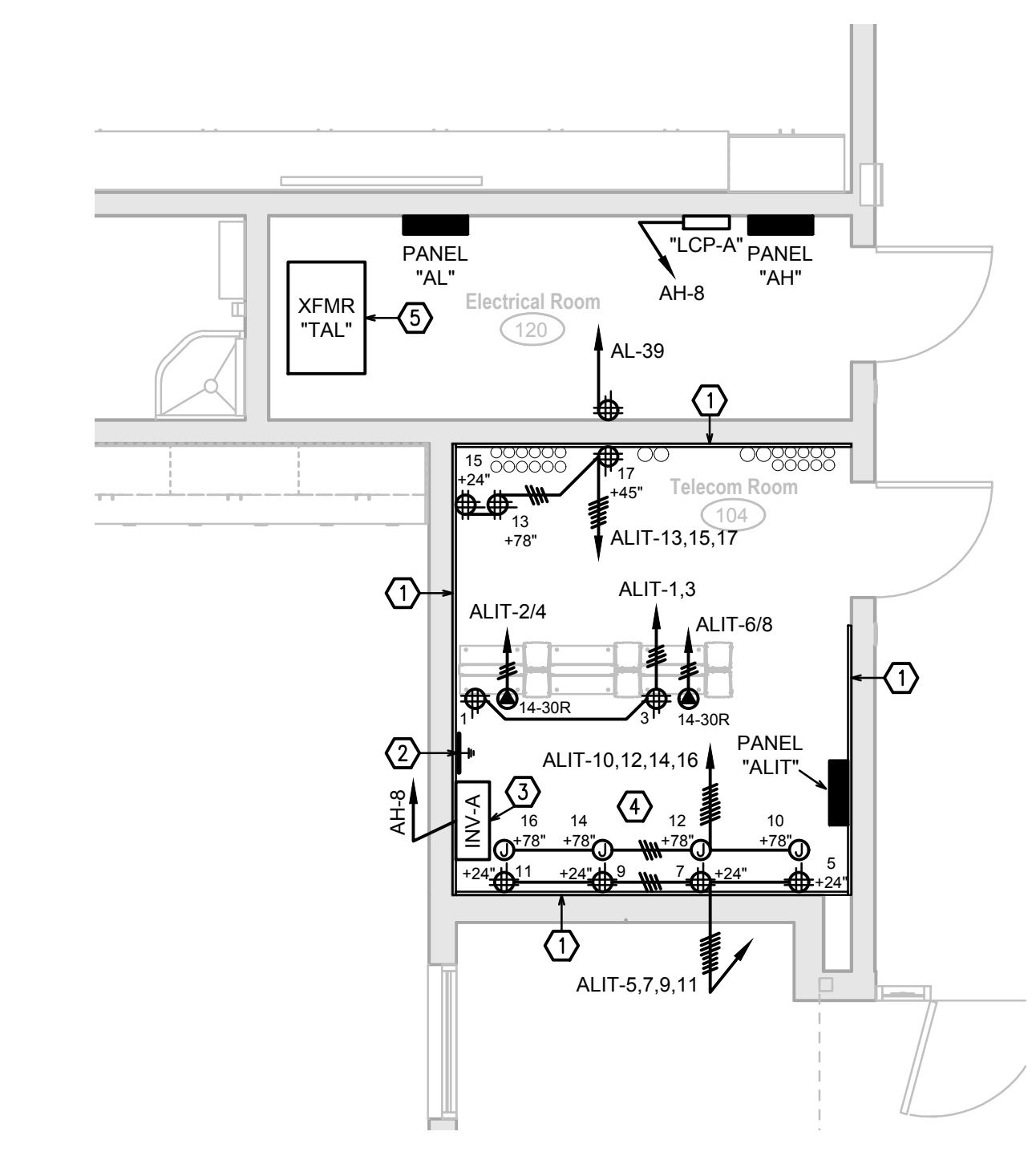
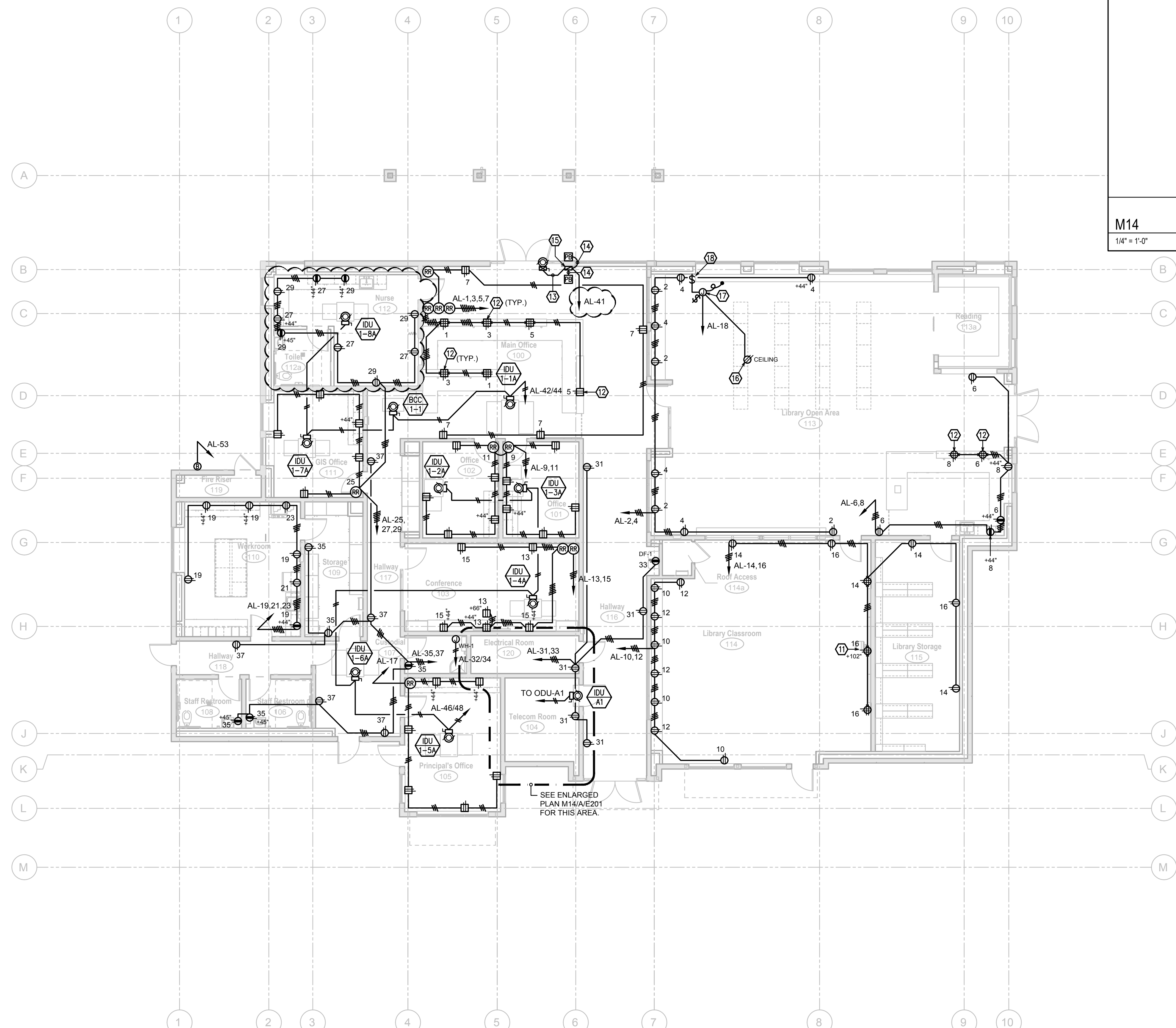
No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision	
Designed By:	SD
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Drawn By:	HDE
Project Number:	2116
Checked By:	SD
Date:	09/19/2022
Reviewed By:	SD

A/E101

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A1 Building A - Lighting Plan
 1/8" = 1'-0"



M14 Building A - Enlarged Power Plan
1/4" = 1'-0"

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

- KEYNOTES**
- 3/4" THICK x 8" HIGH, FIRE-RESISTANT PLYWOOD BACKBOARD, PAINTED WITH FIRE RESISTANT PAINT. SECURE PLYWOOD TO (2) METAL STUDS WITH #10 x 4" GALVANIZED FLAT HEAD SMS AT 8" CENTERS, WITH MIN. (4) SCREWS AT 8" CENTERS AT EACH WALL STUD, WITH MIN. 2 1/2" EMBEDMENT INTO WALL STUD.
 - PROVIDE TELECOM GROUND BUS PER DETAIL N8/XE401 AND J8/XE401.
 - EMERGENCY LIGHTING INVERTER PER DETAIL H14/XE202.
 - CONNECT POWER TO FA, EMS, SECURITY SYSTEMS AND LIGHTING GATEWAY.
 - PAD MOUNTED TRANSFORMER. SEE DETAIL D10/XE301 FOR MOUNTING. SEE POWER SINGLE LINE DIAGRAM G10/XE301.
 - SEE TEACHING WALL ELEVATION DETAIL K1/XE402.
 - MOUNT DEVICE(S) INSIDE CASEWORK. SEE ARCHITECTURAL FOR EXACT LOCATION AND ADDITIONAL DETAIL.
 - 1/2" MC POWER AND 1/2" MC CONTROL SNAKE THROUGH WINDOW SYSTEM TO DOOR OPERATOR CONTROLLER. VERIFY REQUIREMENT WITH VENDOR PRIOR TO ROUGH-IN.
 - 1/2" C. 1/2" TO DOOR PUSH BUTTON. VERIFY DOOR PUSH BUTTON LOCATION WITH ARCHITECT. VERIFY REQUIREMENT WITH VENDOR PRIOR TO ROUGH-IN.
 - POWER SUPPLY CABINET WITH HINGED CONSOLE AND LOCK HASP AT +86" TO BOTTOM. VERIFY REQUIREMENT WITH VENDOR PRIOR TO ROUGH-IN.
 - POWER OUTLET FOR PROJECTOR. VERIFY LOCATION OF PROJECTOR MOUNT WITH FACTORY DATA IN RELATION TO SCREEN PRIOR TO ROUGH-IN. MOUNT PROJECTOR PER DETAIL F11/XE302.
 - PROVIDE L5-20R TWIST-LOCK POWER OUTLET AND CONNECT MOTORIZED SCREEN. VERIFY LOCATION PRIOR TO ROUGH-IN.
 - MOTORIZED SCREEN FACTORY WALL CONTROLLER. VERIFY LOCATION PRIOR TO ROUGH-IN. VERIFY ALL REQUIREMENT PER MANUFACTURER.

General Notes

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Building A
Power Plan
Drawing

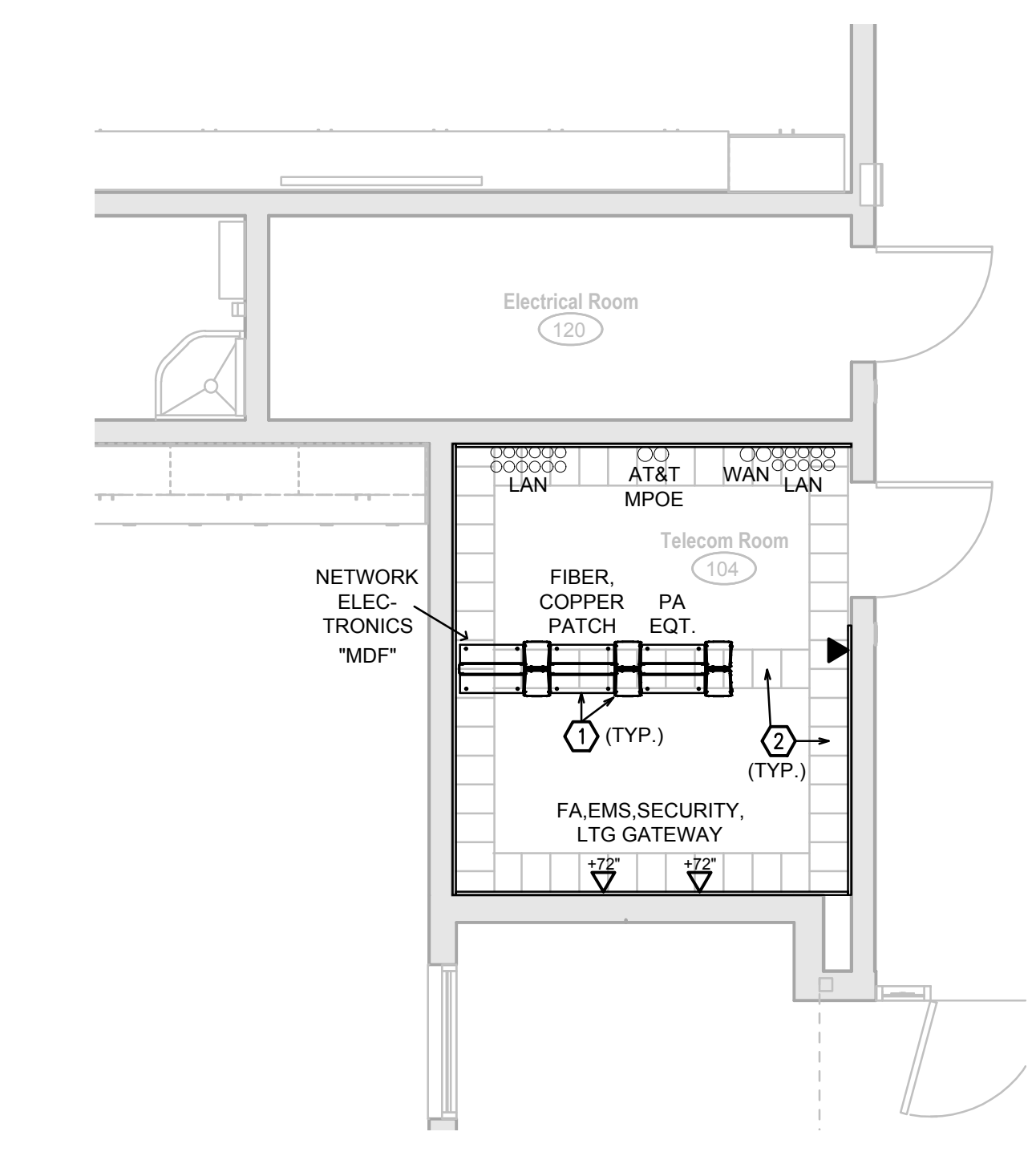
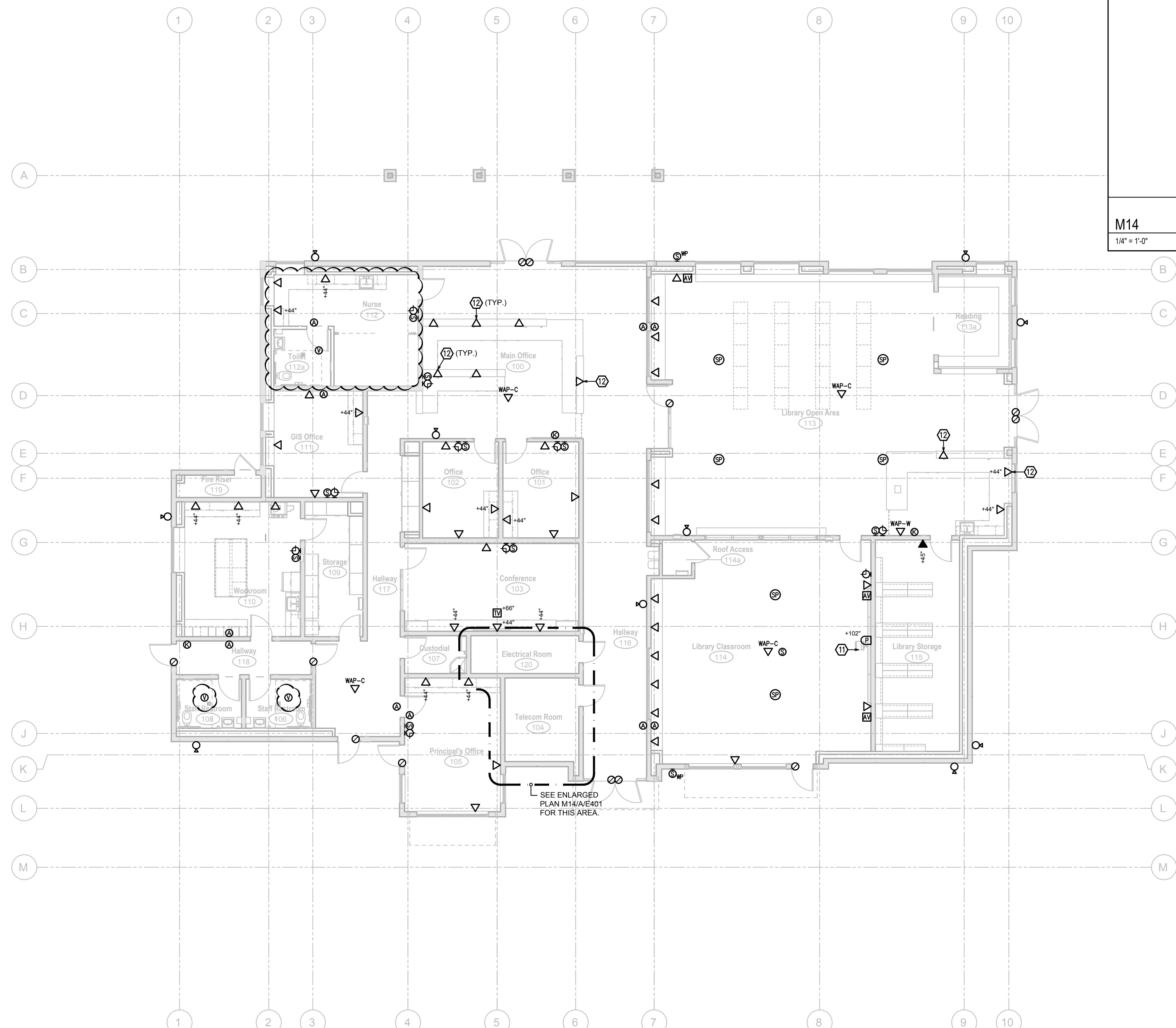
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A/E201

A1 Building A - Power Plan
1/8" = 1'-0"

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M14 Building A - Enlarged Low Voltage Plan
1/4" = 1'-0"

DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- KEYNOTES**
- 2-POST RACK(S), CABLE MANAGEMENT SECTION, AND APPURTENANCES PER SPECS. SEE DETAIL A13/X/E401 FOR MOUNTING.
 - CHATSWORTH 11252-71X 12" LADDER RACK SYSTEM PER SPECIFICATIONS AND DETAIL A11/X/E401.
 - SEE TEACHING WALL ELEVATION DETAIL K11/X/E402.
 - MOUNT DEVICE(S) INSIDE CASEWORK. SEE ARCHITECTURAL FOR EXACT LOCATION AND ADDITIONAL DETAIL.

General Notes

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 Project

Building A
 Low Voltage Plan
 Drawing

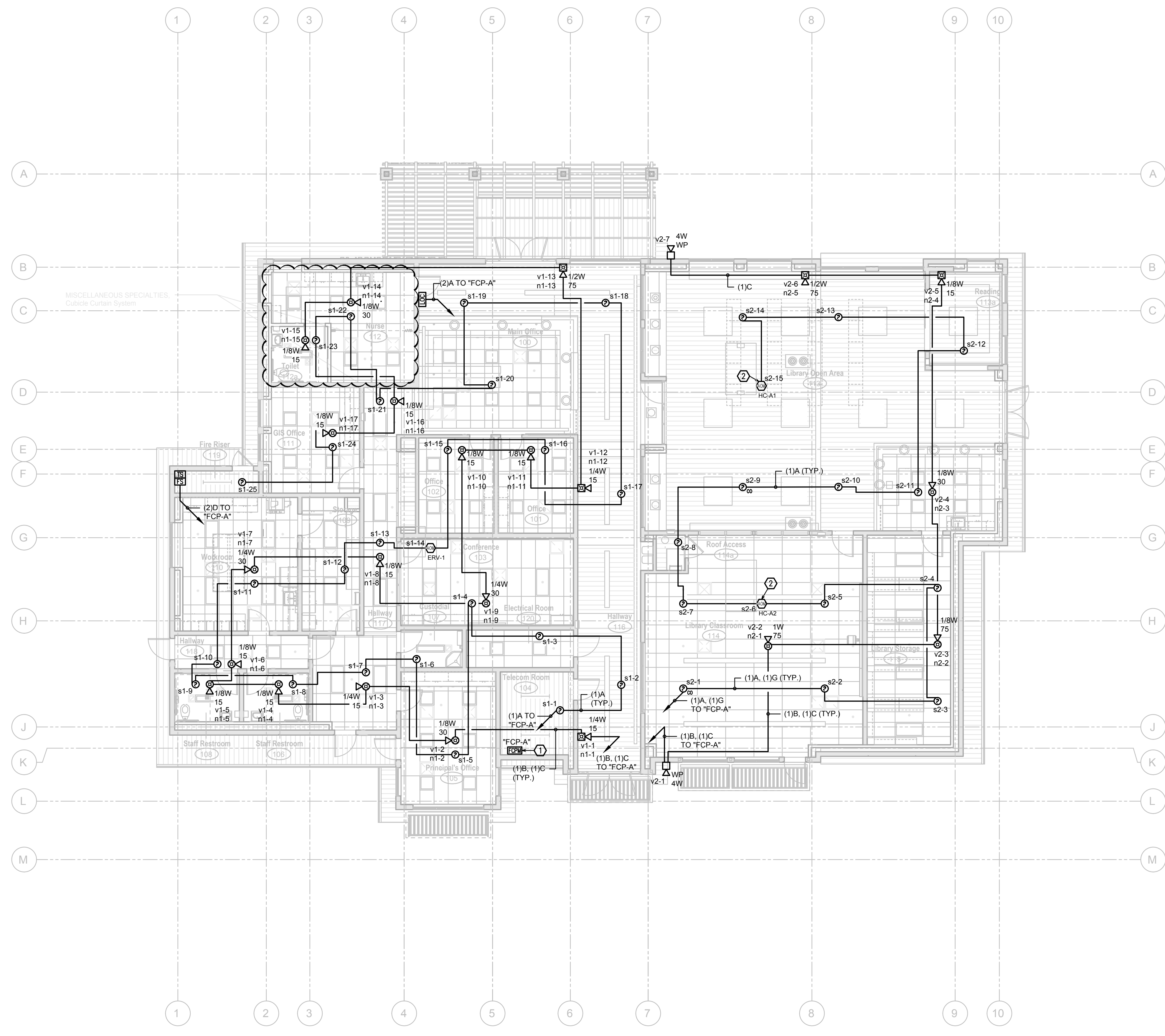
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Project Number:	2116	Checked By: SD
Date:	09/19/2022	Reviewed By: SD

A/E401
 Sheet: _____ of: _____

A1 Building A - Low Voltage Plan
1/8" = 1'-0"

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DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

KEYNOTES

1. FIRE ALARM CONTROL PANEL, CONNECT TO DEDICATED 120V 20A CIRCUIT. CIRCUIT BREAKER TO BE EQUIPPED WITH RED HANDLE LOCK-ON DEVICE AND LABEL READING "FIRE ALARM CIRCUIT. DO NOT TURN OFF". CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM A1X/E502. SEE DETAIL ABX/E302 FOR MOUNTING.
2. CONNECT RELAY MODULE TO MECHANICAL UNIT SHUTDOWN TERMINALS.

General Notes

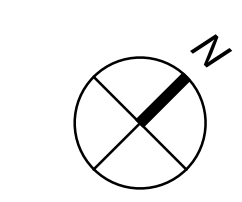
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 Project

Building A
 Fire Alarm Plan
 Drawing

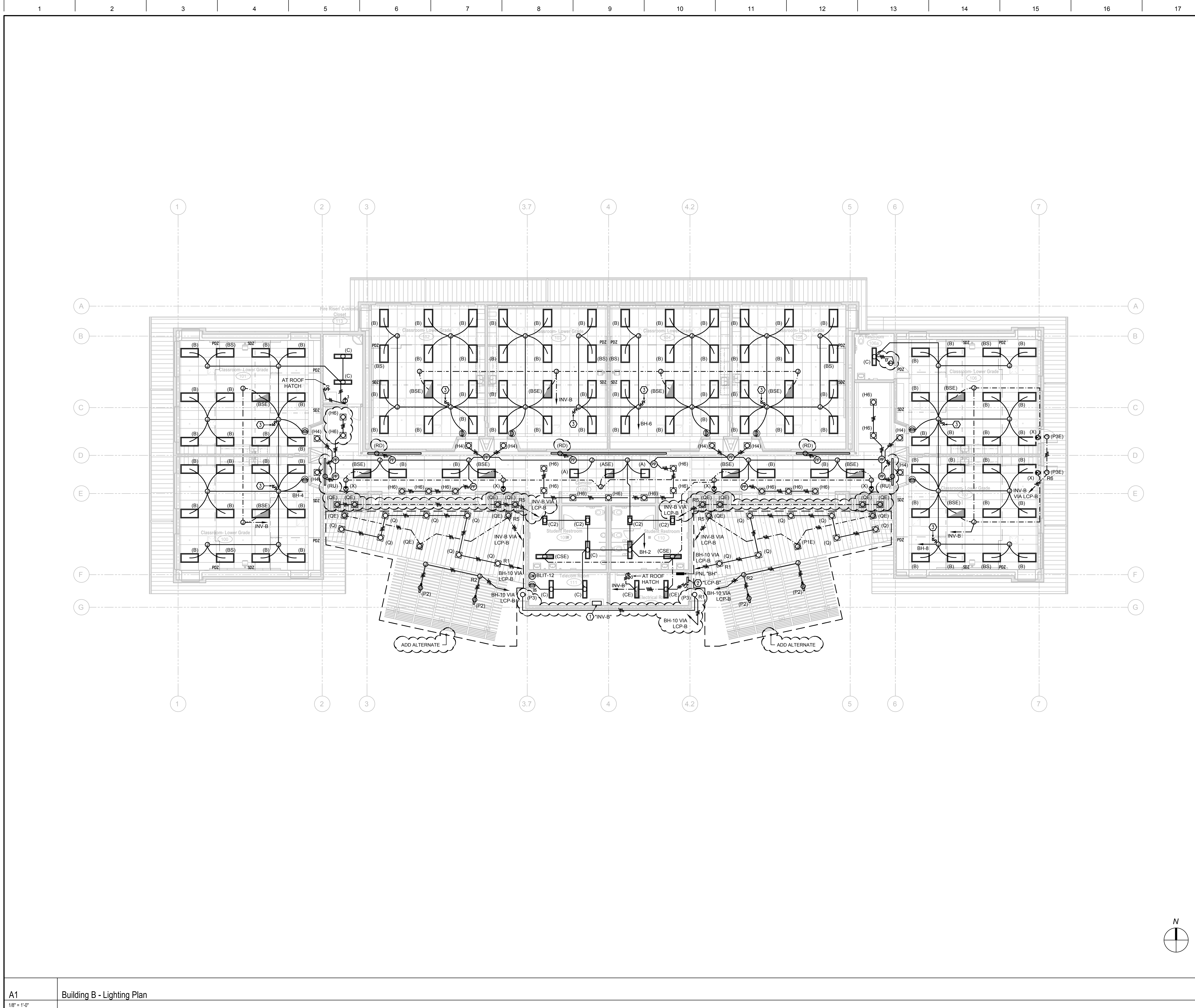
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A/E501		Sheet: _____ of: _____



A1 Building A - Fire Alarm Plan
 1/8" = 1'-0"


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DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- KEYNOTES**
- EMERGENCY LIGHTING INVERTER "INV-B": 90 MINUTES RUNTIME. IOTA #ISC-2200-277IN-277OUT-BYPASS-0861P27716AMPION. WHEN POWER FAILS, EMERGENCY LIGHTS AUTOMATICALLY SWITCH ON. SEE DETAIL H14/E02 FOR MOUNTING. SEE ENLARGED ELECTRICAL PLAN P11/B/E201 FOR CIRCUIT.
 - LIGHTING CONTROL PANEL "LCP-B": LITHONIA #ARP-INTENC16NLT-12FCR-MVOLT-1VB-HLK-SM-DTC. SEE ENLARGED ELECTRICAL PLAN P11/B/E201 FOR CIRCUIT.
 - PROVIDE MAINTENANCE SWITCH IN ATTIC SPACE FOR LIGHTS.

General Notes



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Building B
 Lighting Plan

Drawing



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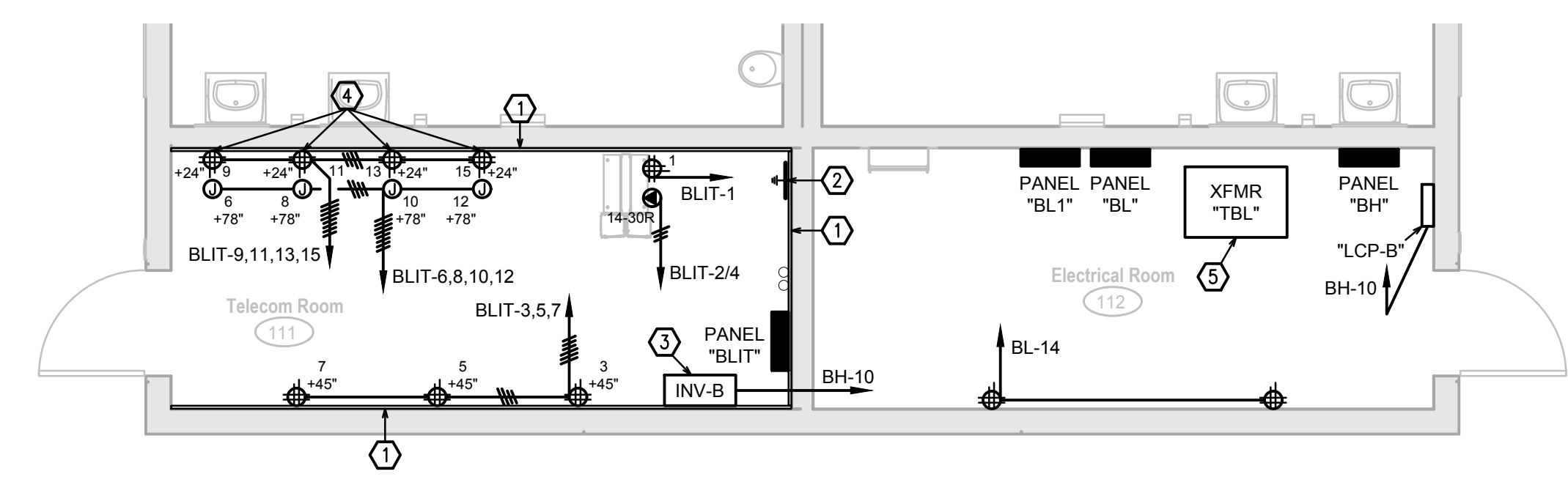
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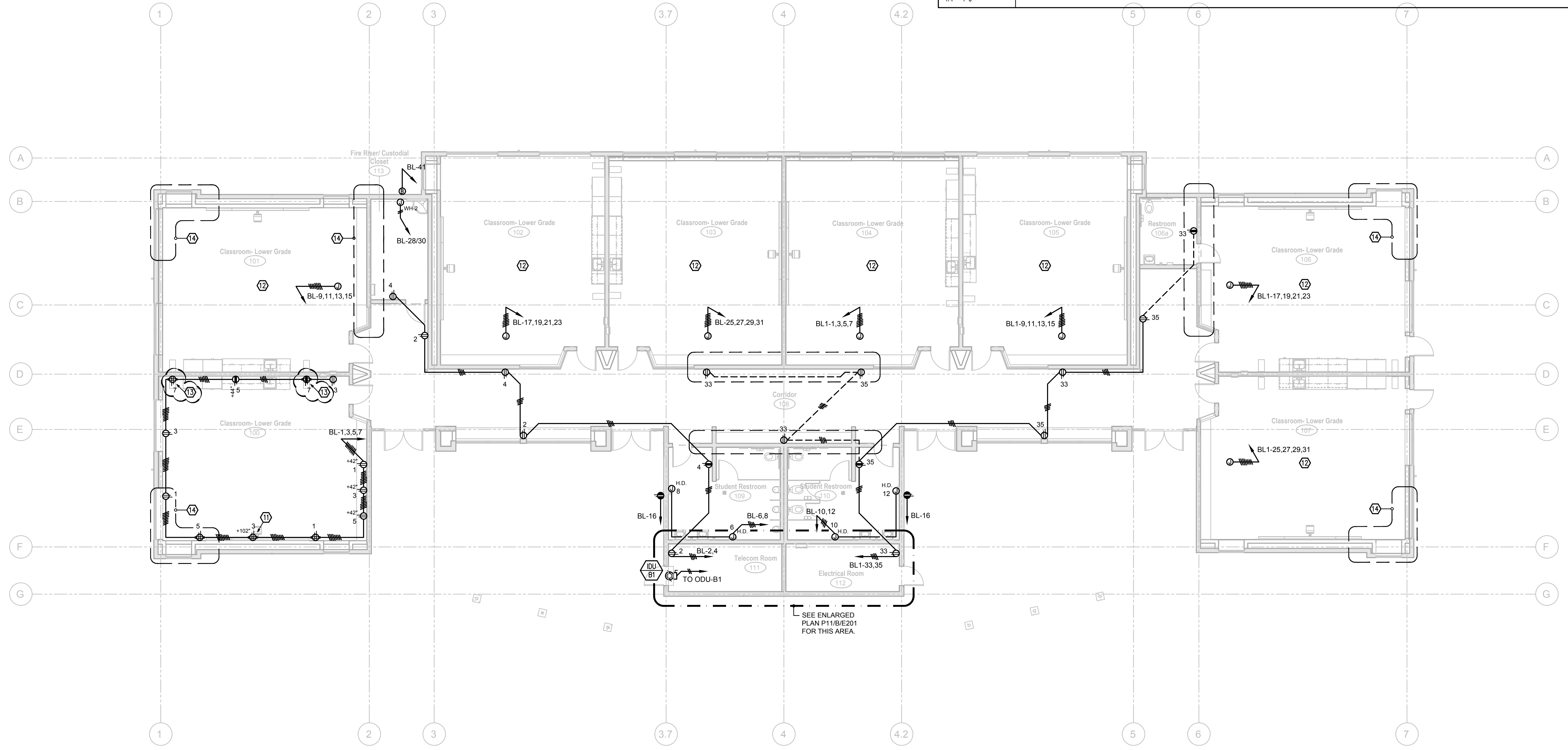
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Project Number:	2116	Checked By:	SD	
Date:	09/19/2022	Reviewed By:	SD	

Sheet: _____ of: _____

A1 Building B - Lighting Plan
 1/8" = 1'-0"



P11 Building B - Enlarged Power Plan
1/4" = 1'-0"



SEE ENLARGED PLAN P11/B/E201 FOR THIS AREA.

DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- KEYNOTES**
- 3/4" THICK x 8" HIGH, FIRE-RESISTANT PLYWOOD BACKBOARD, PAINTED WITH FIRE RESISTANT PAINT. SECURE PLYWOOD TO (2) METAL STUDS WITH #10 x 4" GALVANIZED FLAT HEAD SMS AT 8" CENTERS, WITH MIN. (4) SCREWS AT 8" CENTERS AT EACH WALL STUD, WITH MIN. 2 1/2" EMBEDMENT INTO WALL STUD.
 - PROVIDE TELECOM GROUND BUS PER DETAIL N8/X/E401 AND J8/X/E401.
 - EMERGENCY LIGHTING INVERTER PER DETAIL H14/X/E202.
 - CONNECT POWER TO FA, EMS, SECURITY SYSTEMS AND LIGHTING GATEWAY.
 - PAD MOUNTED TRANSFORMER. SEE DETAIL D10/X/E301 FOR MOUNTING. SEE POWER SINGLE LINE DIAGRAM G10/X/E301.
 - SEE TEACHING WALL ELEVATION DETAIL K1/X/E402.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 100.
 - LAPTOP CHARGING STATION POWER OUTLET. VERIFY LOCATION AND REQUIREMENT PRIOR TO ROUGH-IN.
 - INDICATED WALL HAS CONCEALED STRUCTURAL BRACING. PROVIDE UNDERGROUND RACEWAYS AS REQUIRED TO ENTER CONCEALED INTO WALL SPACE.

General Notes

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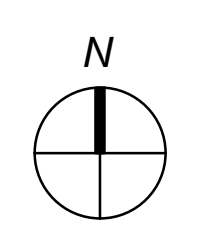
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Building B
 Power Plan
 Drawing

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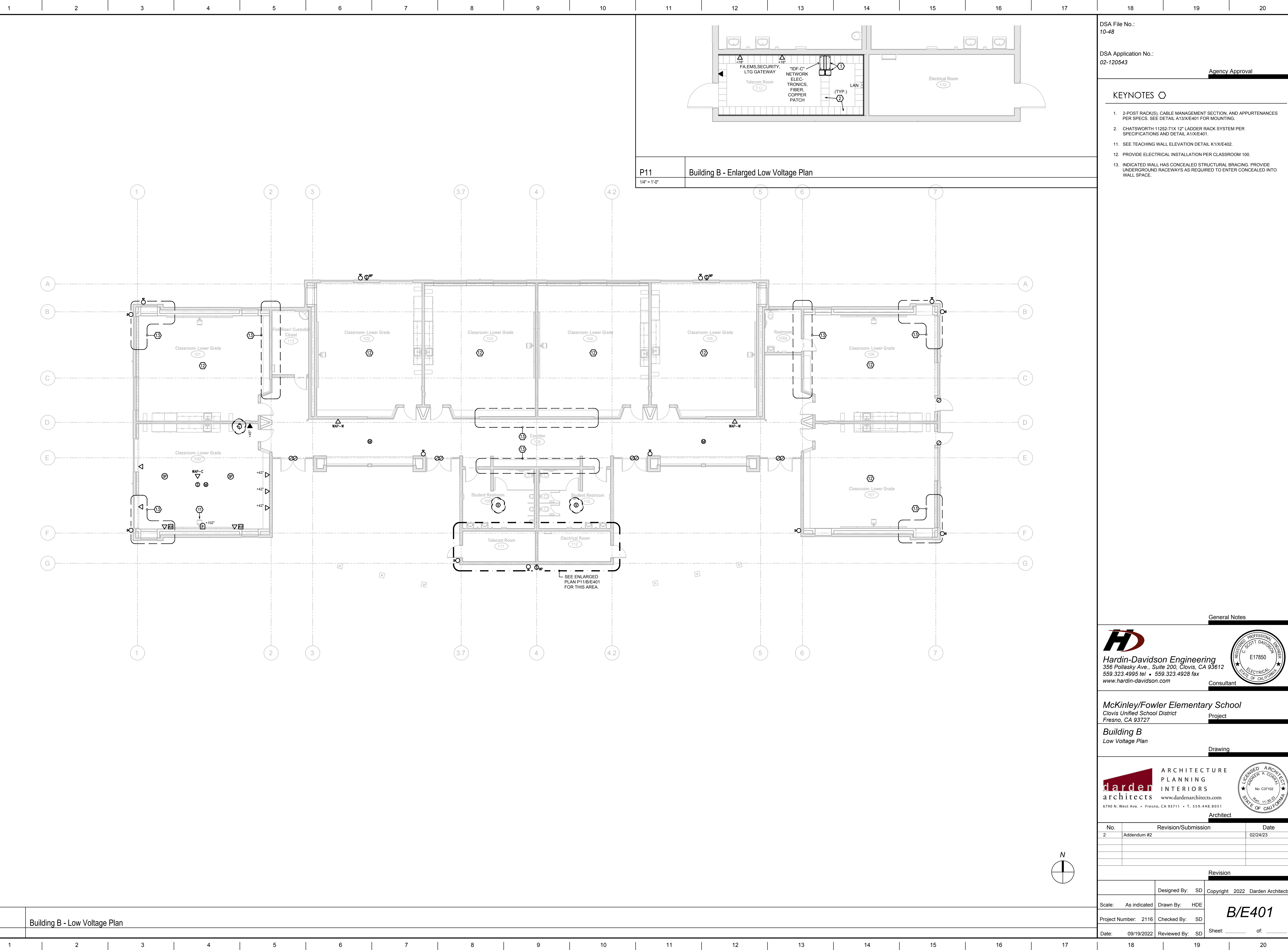
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Project Number:	2116	Checked By:	SD
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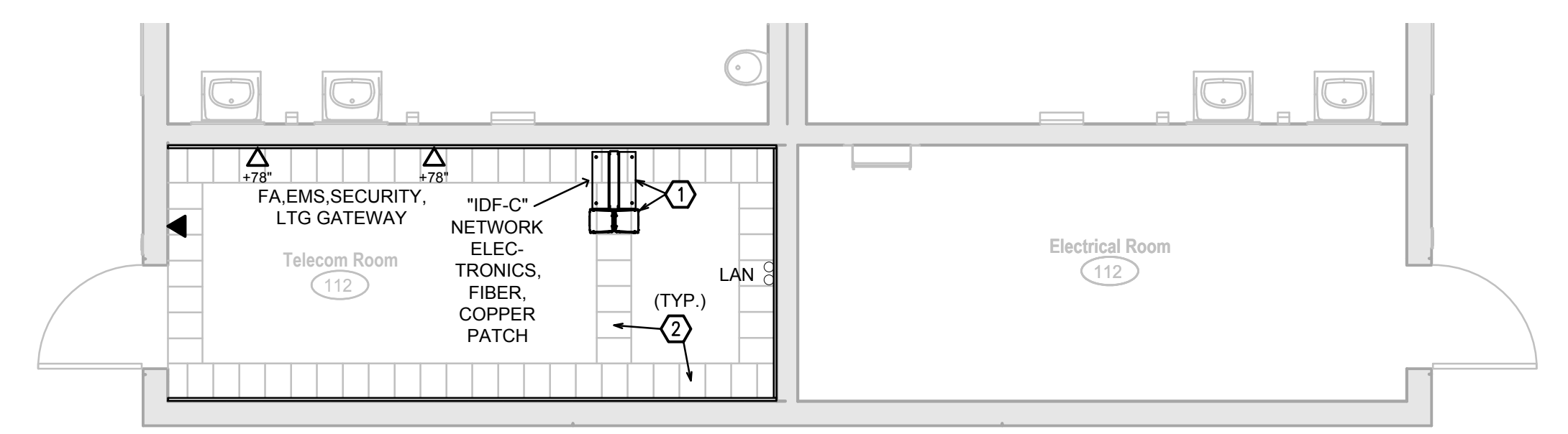
A1 Building B - Power Plan
1/8" = 1'-0"

B/E201
Sheet: _____ of: _____

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P11 Building B - Enlarged Low Voltage Plan
1/4" = 1'-0"

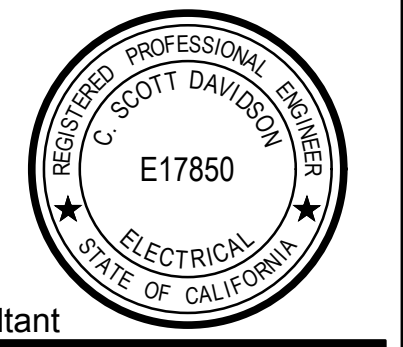


DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

- KEYNOTES**
- 1. 2-POST RACK(S), CABLE MANAGEMENT SECTION, AND APPURTENANCES PER SPECS. SEE DETAIL A13/E401 FOR MOUNTING.
 - 2. CHATSWORTH 11252-71X 12" LADDER RACK SYSTEM PER SPECIFICATIONS AND DETAIL A13/E401.
 - 11. SEE TEACHING WALL ELEVATION DETAIL K11/E402.
 - 12. PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 100.
 - 13. INDICATED WALL HAS CONCEALED STRUCTURAL BRACING. PROVIDE UNDERGROUND RACEWAYS AS REQUIRED TO ENTER CONCEALED INTO WALL SPACE.

General Notes

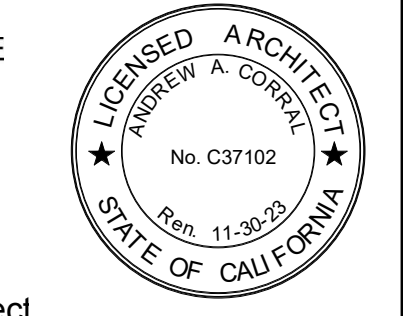
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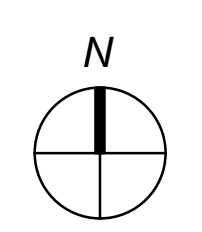


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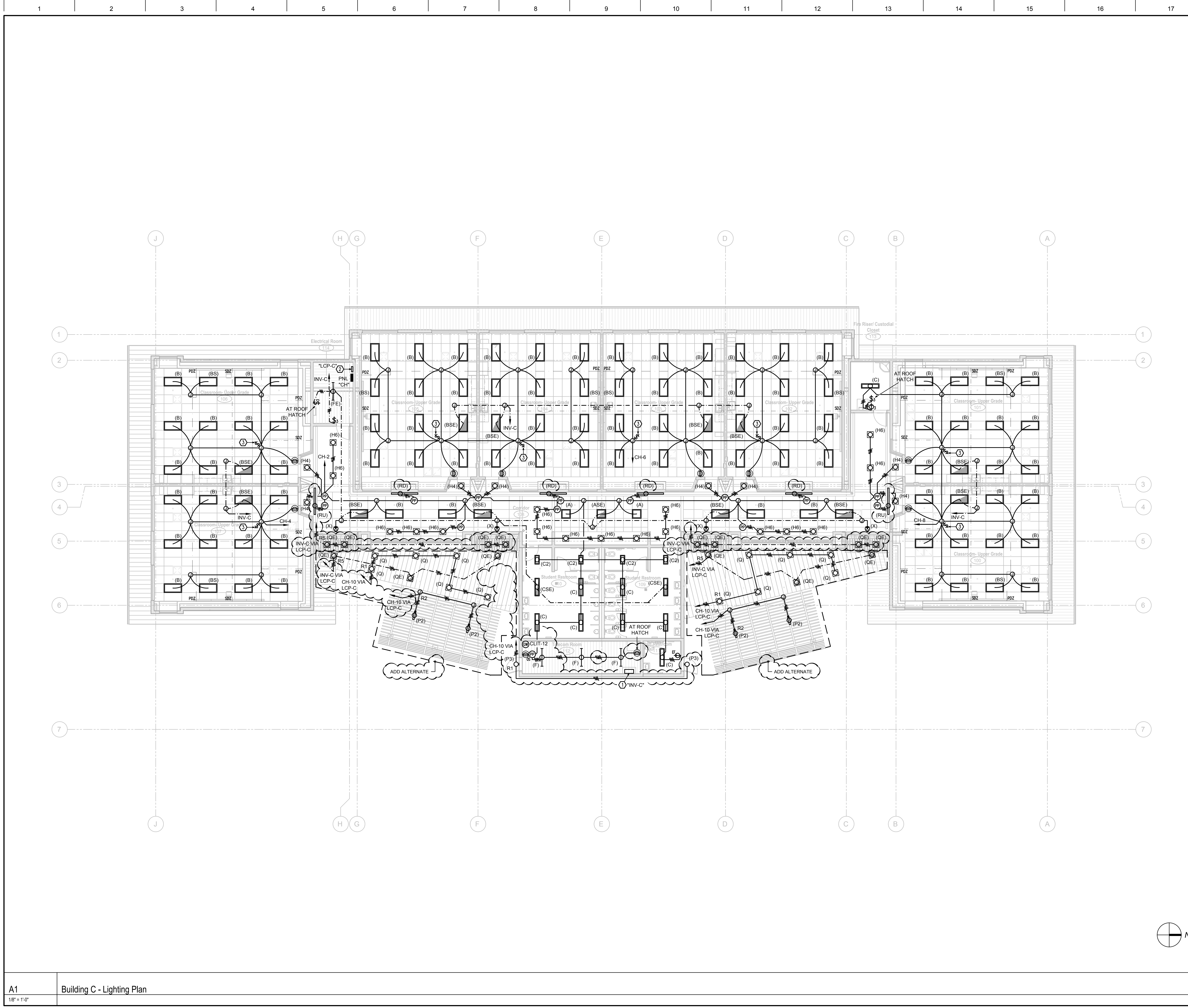
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Project Number:	2116	Checked By:	SD	
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A1 Building B - Low Voltage Plan
1/8" = 1'-0"

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- KEYNOTES**
- EMERGENCY LIGHTING INVERTER "INV-C", 90 MINUTES RUNTIME. IOTA #ISC-2200-277IN-277OUT-BYPASS-086/1P277/16AMP/ION. WHEN POWER FAILS, EMERGENCY LIGHTS AUTOMATICALLY SWITCH ON. SEE DETAIL H14/E202 FOR MOUNTING. SEE ENLARGED ELECTRICAL PLAN P11/CE201 FOR CIRCUIT.
 - LIGHTING CONTROL PANEL "LCP-C". LITHONIA #ARP-INTENC16NLT-8FCR-MVOLT-1VB-HLK-SM-DTC. SEE ENLARGED ELECTRICAL PLAN P11/CE201 FOR CIRCUIT.
 - PROVIDE MAINTENANCE SWITCH IN ATTIC SPACE FOR LIGHTS.

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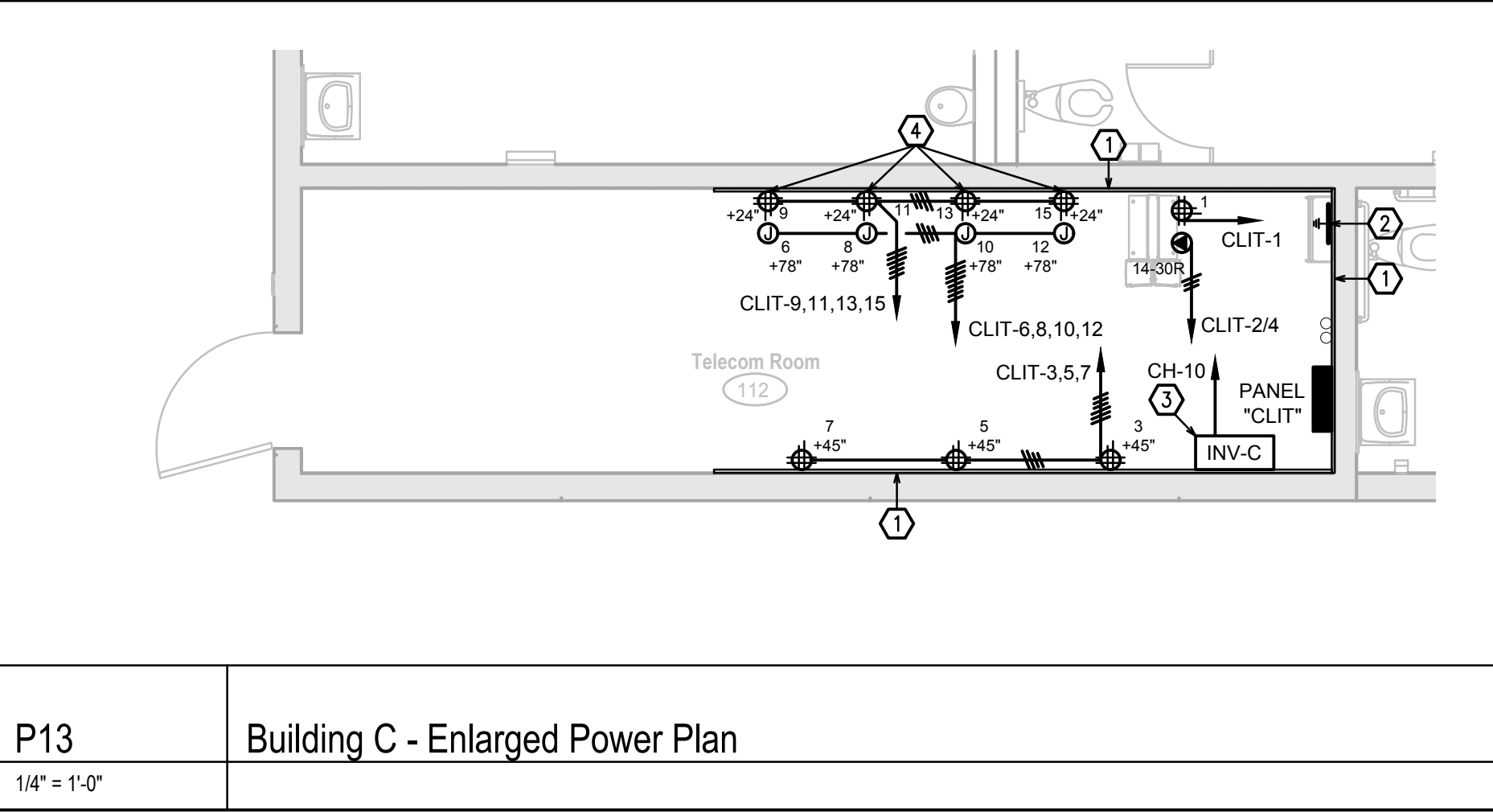
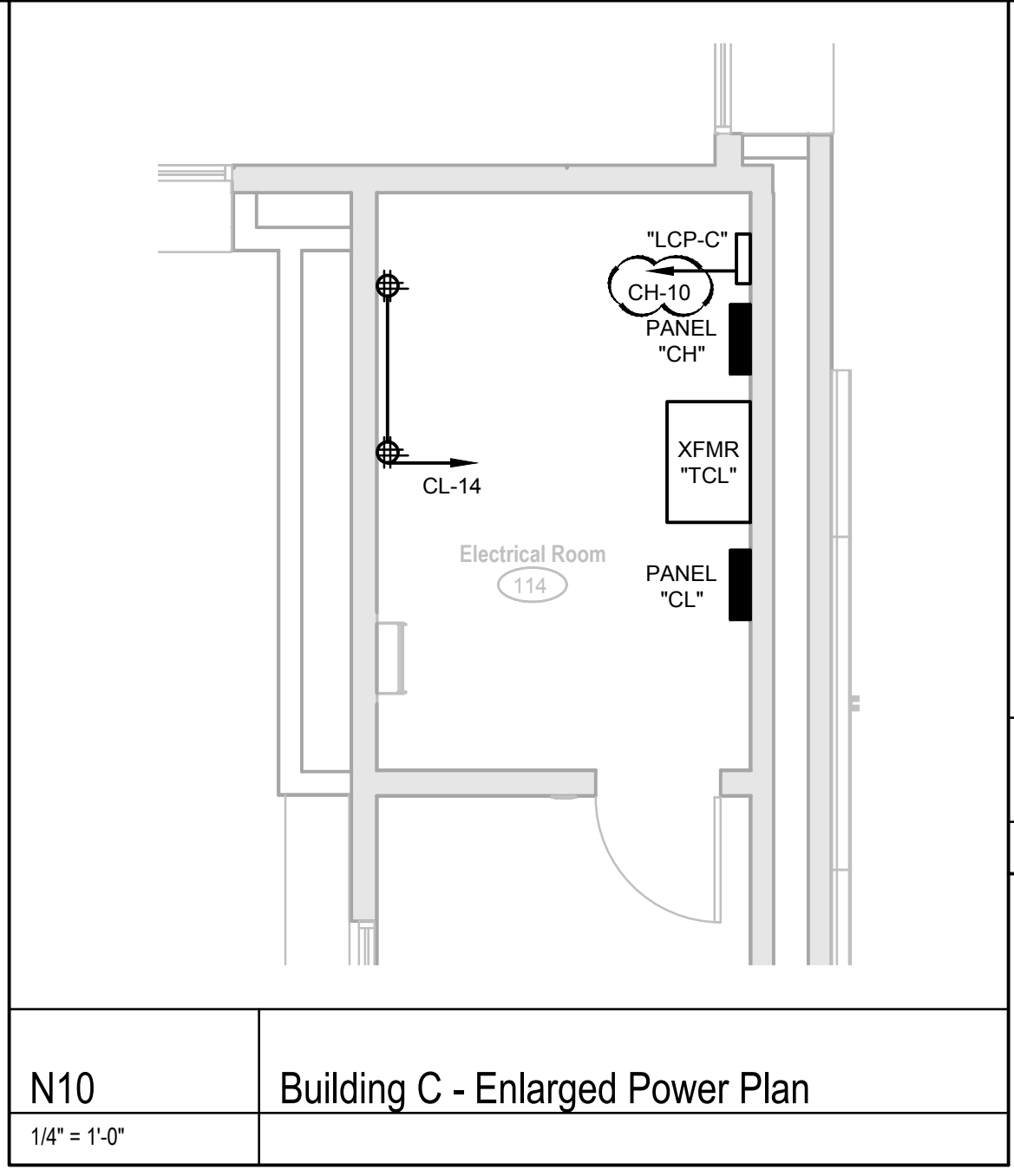
Building C
 Lighting Plan
 Drawing

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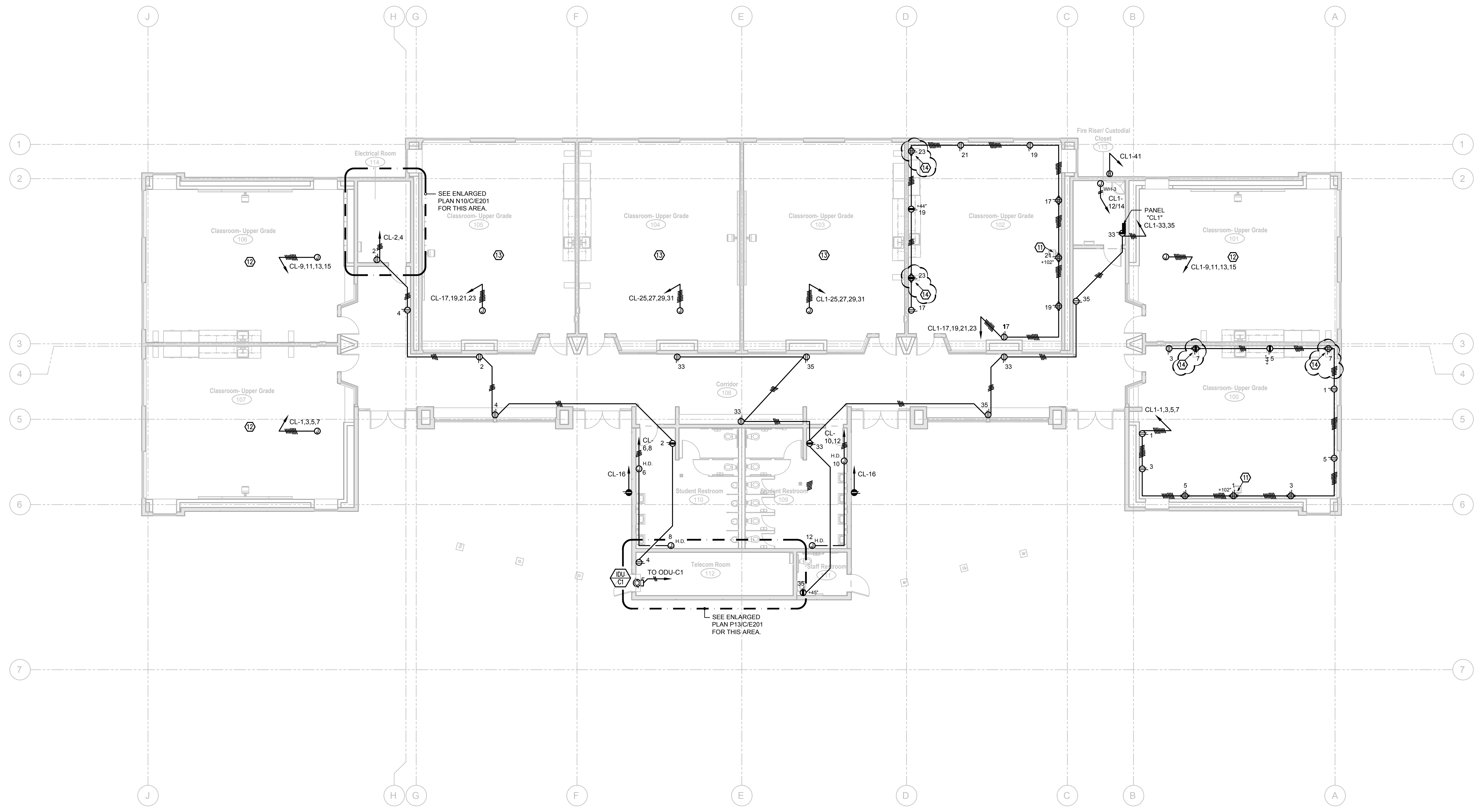
C/E101
 Sheet: _____ of: _____

A1 Building C - Lighting Plan
 1/8" = 1'-0"



P13 Building C - Enlarged Power Plan
1/4" = 1'-0"

N10 Building C - Enlarged Power Plan
1/4" = 1'-0"



DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- KEYNOTES**
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 - PROVIDE TELECOM GROUND BUS PER DETAIL N8/X/E401 AND J8/X/E401.
 - EMERGENCY LIGHTING INVERTER PER DETAIL H14/X/E202.
 - CONNECT POWER TO FA, EMS, SECURITY SYSTEMS AND LIGHTING GATEWAY.
 - PAD MOUNTED TRANSFORMER. SEE DETAIL D10/X/E301 FOR MOUNTING. SEE POWER SINGLE LINE DIAGRAM G10/X/E301.
 - SEE TEACHING WALL ELEVATION DETAIL K1/X/E402.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 100.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 102.
 - LAPTOP CHARGING STATION POWER OUTLET. VERIFY LOCATION AND REQUIREMENT PRIOR TO ROUGH-IN.

General Notes

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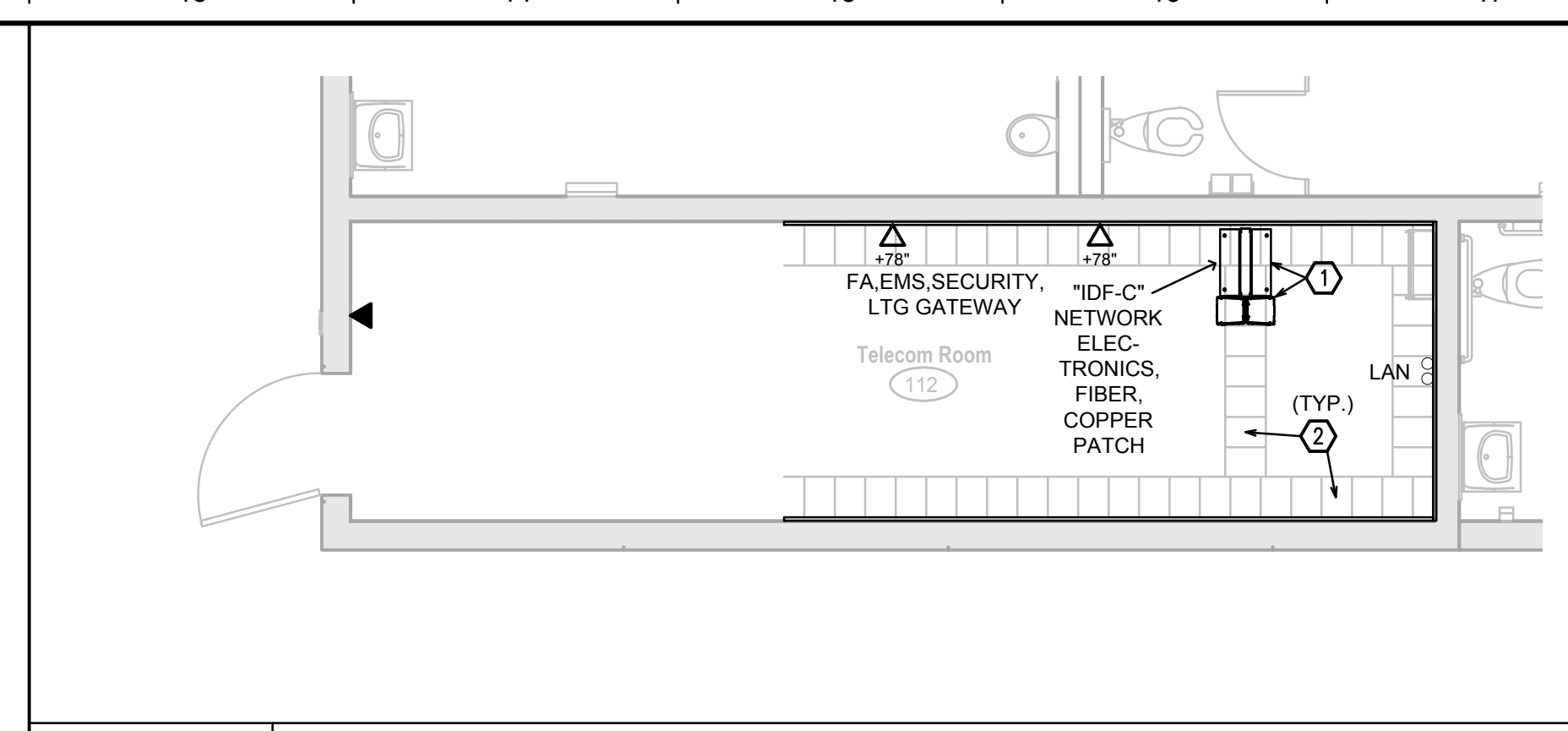
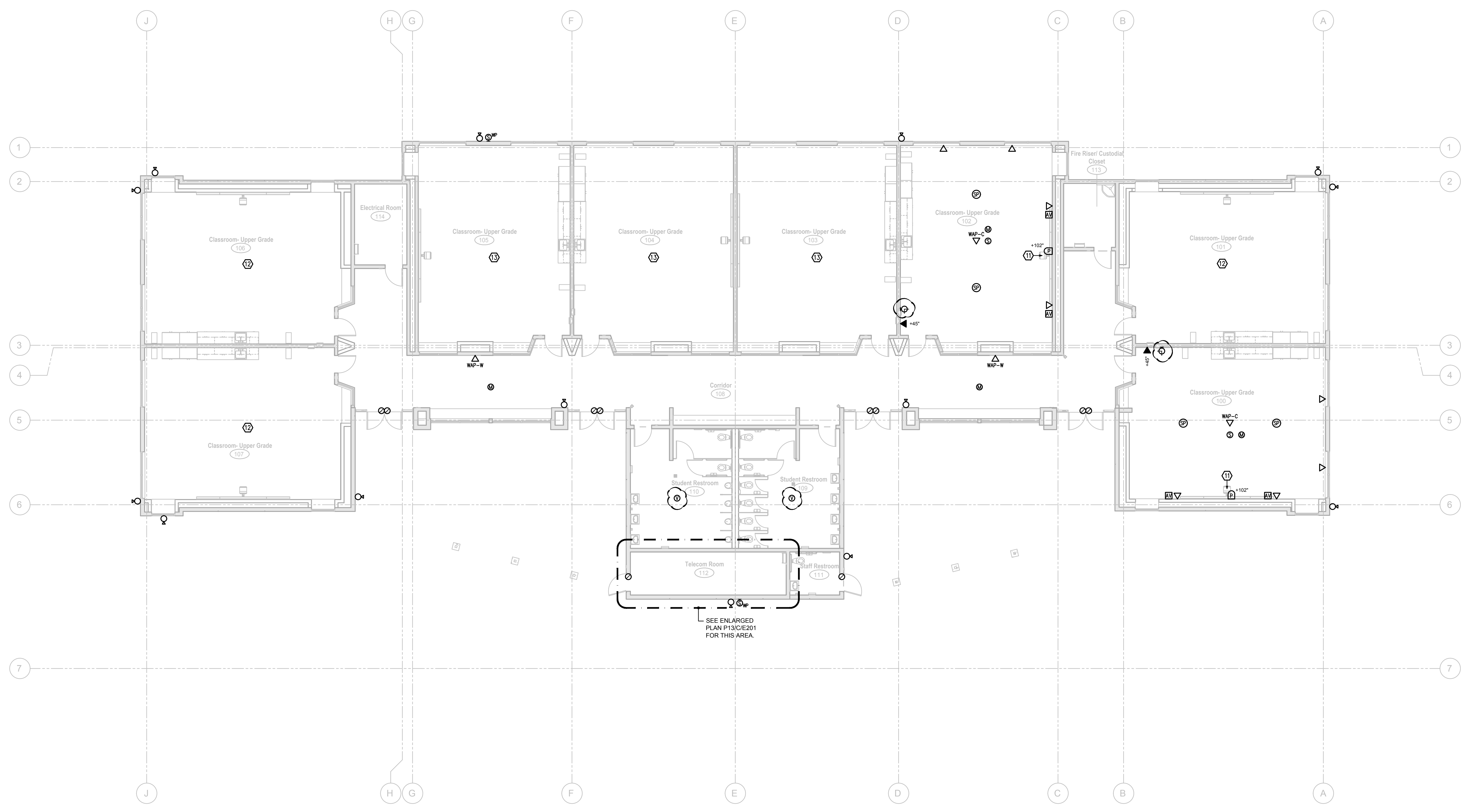
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C/E201
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A1 Building C - Power Plan
 1/8" = 1'-0"

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P13
1/4" = 1'-0"
Building C - Enlarged Low Voltage Plan

DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- KEYNOTES**
- 2-POST RACK(S), CABLE MANAGEMENT SECTION, AND APPURTENANCES PER SPECS. SEE DETAIL A13/E401 FOR MOUNTING.
 - CHATSWORTH 11252-71X 12" LADDER RACK SYSTEM PER SPECIFICATIONS AND DETAIL A11/E401.
 - SEE TEACHING WALL ELEVATION DETAIL K11/E402.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 100.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 102.

General Notes

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 356 Pollasky Ave., Suite 200, Clovis, CA 93612
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McKinley/Fowler Elementary School
 Clovis Unified School District
 Fresno, CA 93727
 Project

Building C
 Low Voltage Plan
 Drawing

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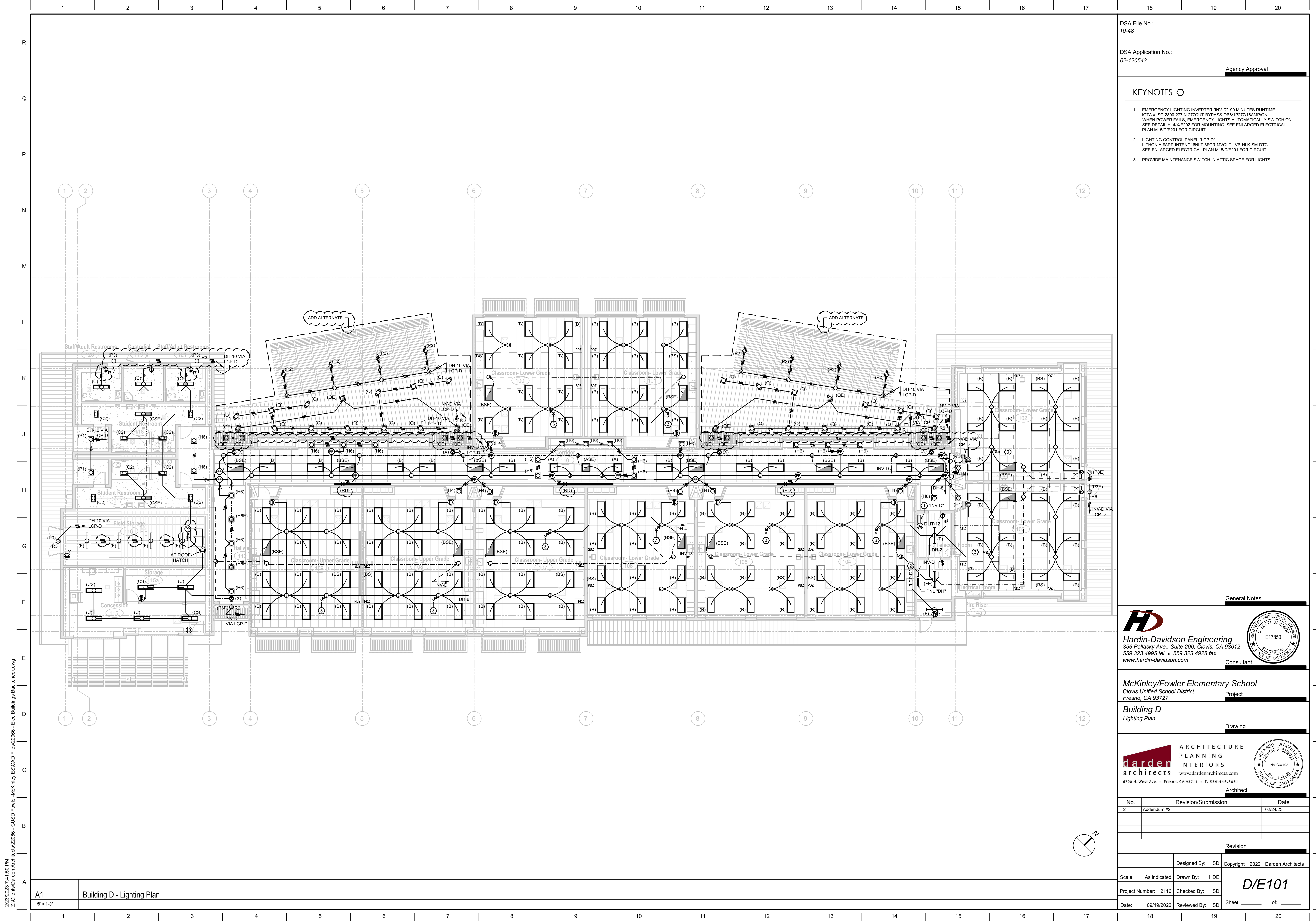
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2	Addendum #2	02/24/23

Revision
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Scale: As indicated Drawn By: HDE
 Project Number: 2116 Checked By: SD
 Date: 09/19/2022 Reviewed By: SD

C/E401
 Sheet: _____ of: _____

A1
1/8" = 1'-0"
Building C - Low Voltage Plan



DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- KEYNOTES**
- EMERGENCY LIGHTING INVERTER "INV-D", 90 MINUTES RUNTIME. IOTA #ISC-2800-277IN-277OUT-BYPASS-0861P27716AMP/ON. WHEN POWER FAILS, EMERGENCY LIGHTS AUTOMATICALLY SWITCH ON. SEE DETAIL, H14/E202 FOR MOUNTING. SEE ENLARGED ELECTRICAL PLAN M15/D/E201 FOR CIRCUIT.
 - LIGHTING CONTROL PANEL "LCP-D". LITHONIA #ARP-INTENC16NLT-8FCR-MVOLT-1VB-HLK-SM-DTC. SEE ENLARGED ELECTRICAL PLAN M15/D/E201 FOR CIRCUIT.
 - PROVIDE MAINTENANCE SWITCH IN ATTIC SPACE FOR LIGHTS.

General Notes

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 Project

Building D
 Lighting Plan
 Drawing

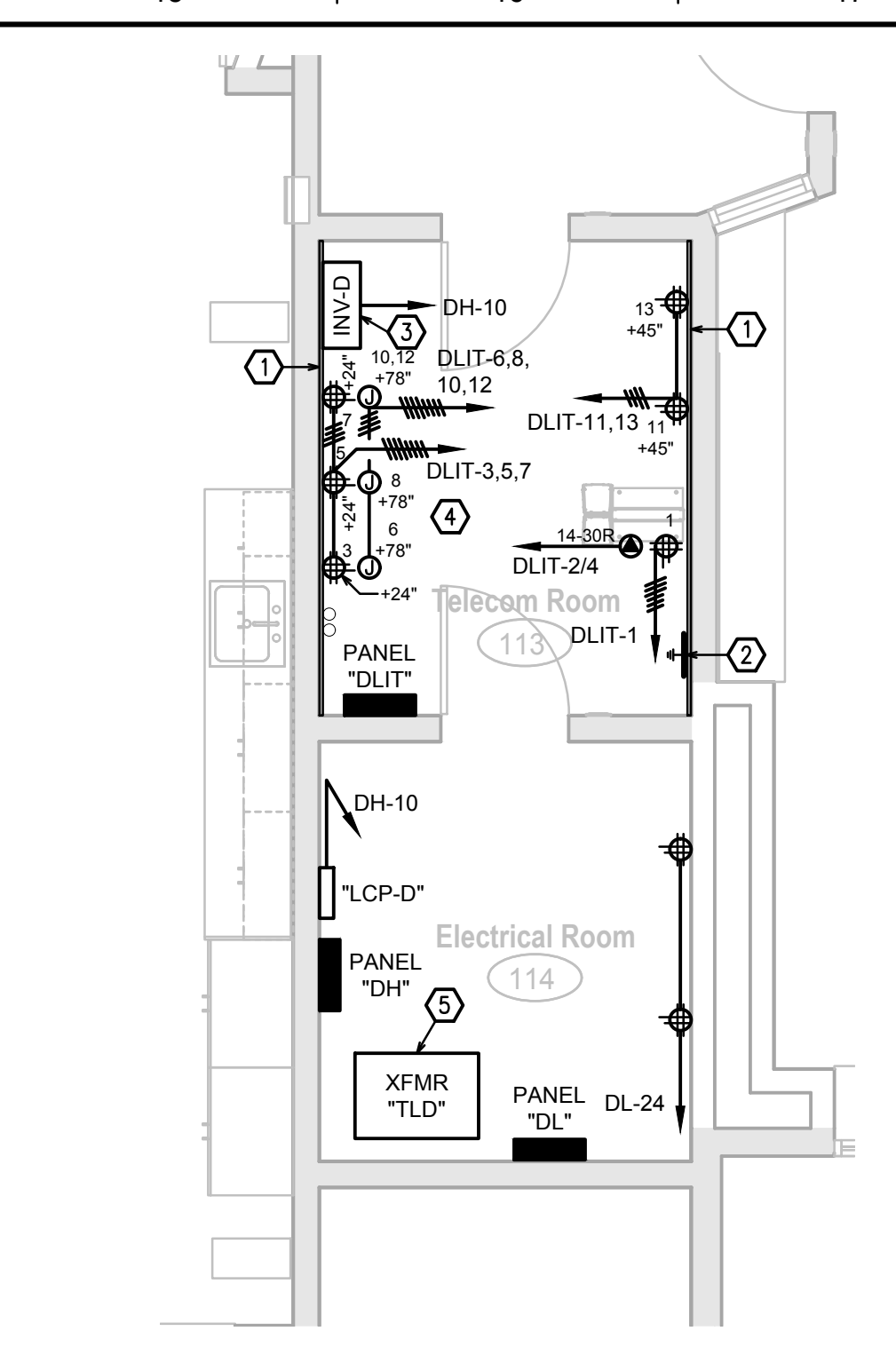
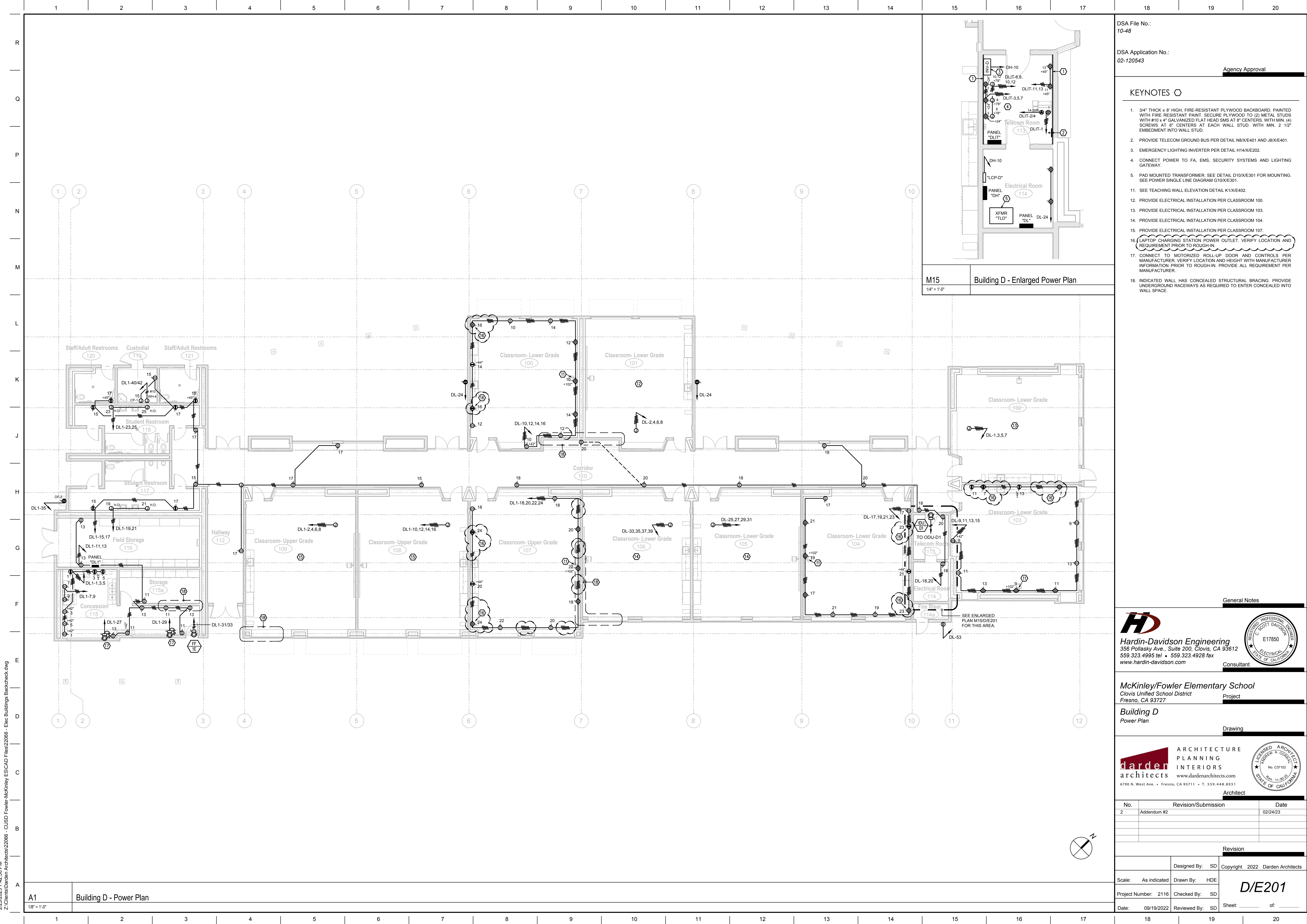
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2	Addendum #2	02/24/23

Revision	
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Project Number:	2116 Checked By: SD
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A1 Building D - Lighting Plan
 1/8" = 1'-0"

D/E101



M15 Building D - Enlarged Power Plan
1/4" = 1'-0"

DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

- KEYNOTES**
- 3/4" THICK x 8" HIGH, FIRE-RESISTANT PLYWOOD BACKBOARD, PAINTED WITH FIRE RESISTANT PAINT. SECURE PLYWOOD TO (2) METAL STUDS WITH #10 x 4" GALVANIZED FLAT HEAD SMS AT 8" CENTERS, WITH MIN. (4) SCREWS AT 8" CENTERS AT EACH WALL STUD, WITH MIN. 2 1/2" EMBEDMENT INTO WALL STUD.
 - PROVIDE TELECOM GROUND BUS PER DETAIL N8X/E401 AND J8X/E401.
 - EMERGENCY LIGHTING INVERTER PER DETAIL H14X/E202.
 - CONNECT POWER TO FA, EMS, SECURITY SYSTEMS AND LIGHTING GATEWAY.
 - PAD MOUNTED TRANSFORMER. SEE DETAIL D10X/E301 FOR MOUNTING. SEE POWER SINGLE LINE DIAGRAM G10X/E301.
 - SEE TEACHING WALL ELEVATION DETAIL K1X/E402.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 100.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 103.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 104.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 107.
 - LAPTOP CHARGING STATION POWER OUTLET. VERIFY LOCATION AND REQUIREMENT PRIOR TO ROUGH-IN.
 - CONNECT TO MOTORIZED ROLL-UP DOOR AND CONTROLS PER MANUFACTURER. VERIFY LOCATION AND HEIGHT WITH MANUFACTURER INFORMATION PRIOR TO ROUGH-IN. PROVIDE ALL REQUIREMENT PER MANUFACTURER.
 - INDICATED WALL HAS CONCEALED STRUCTURAL BRACINGS. PROVIDE UNDERGROUND RACEWAYS AS REQUIRED TO ENTER CONCEALED INTO WALL SPACE.

General Notes

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No.	Revision/Submission	Date
2	Addendum #2	02/24/23

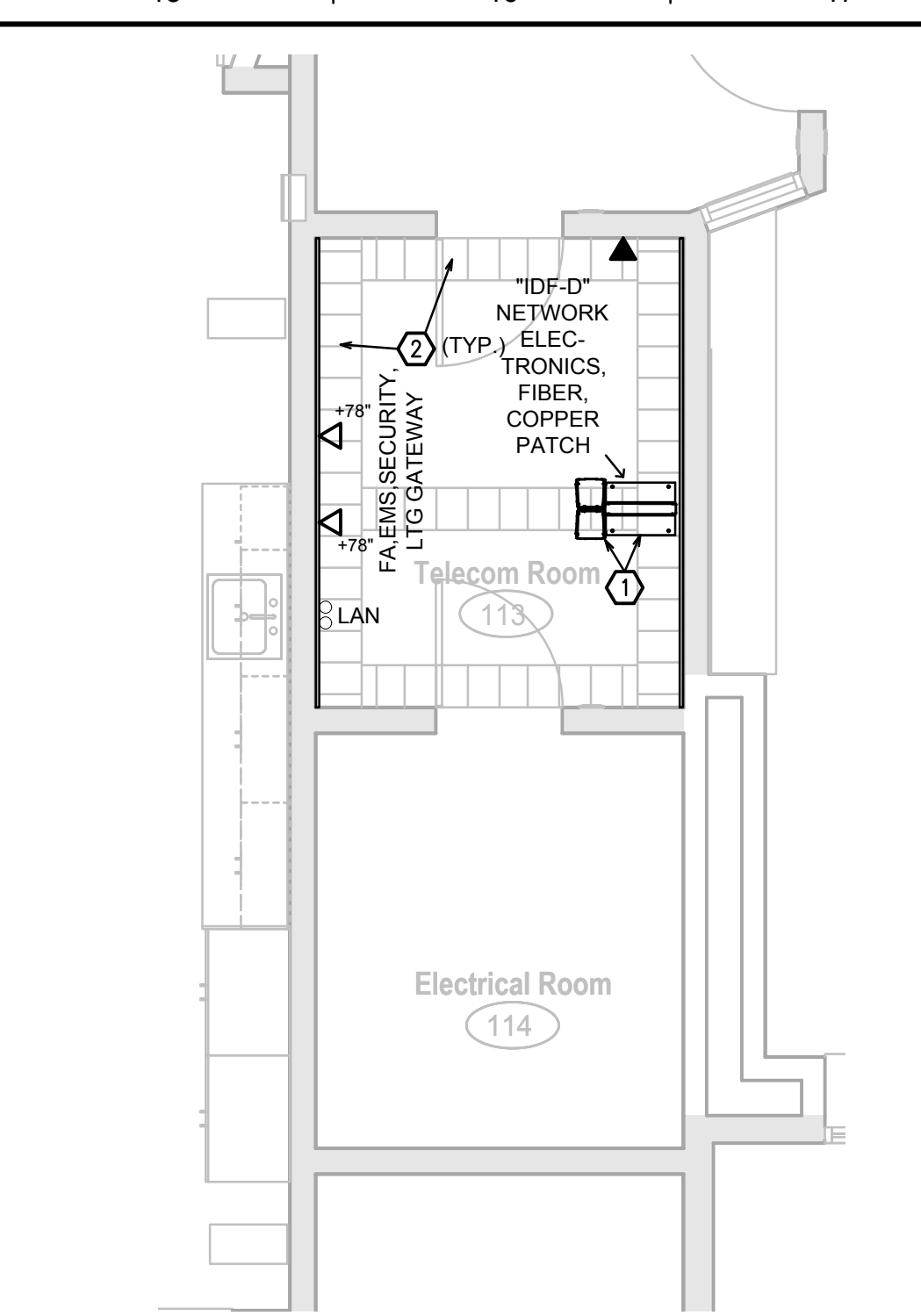
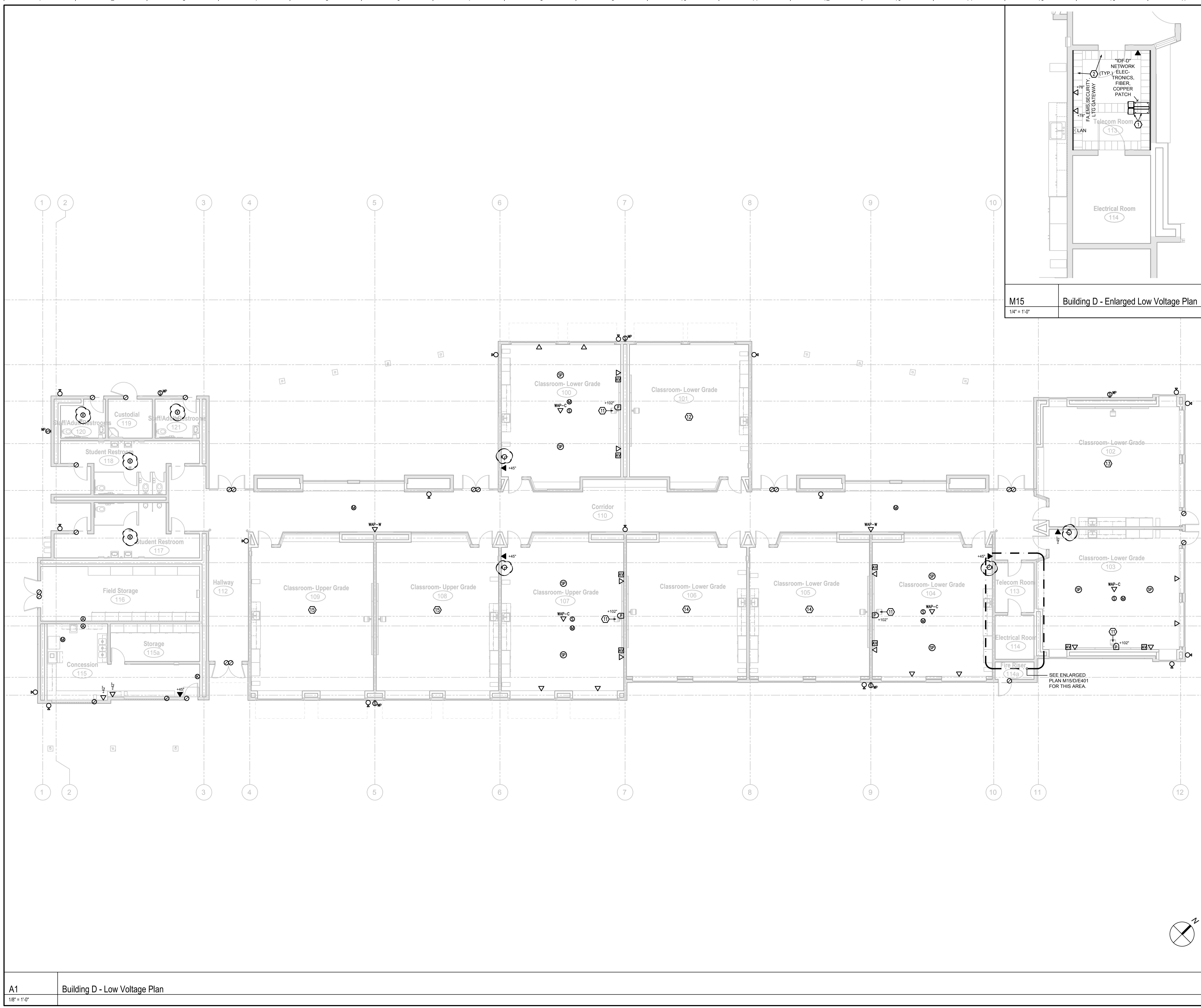
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Scale:	As indicated
Drawn By:	HDE
Project Number:	2116
Checked By:	SD
Date:	09/19/2022
Reviewed By:	SD

D/E201
 Sheet: _____ of: _____

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A1 Building D - Power Plan
 1/8" = 1'-0"

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M15 Building D - Enlarged Low Voltage Plan
1/4" = 1'-0"

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

- KEYNOTES**
- 2-POST RACK(S), CABLE MANAGEMENT SECTION, AND APPURTENANCES PER SPECS. SEE DETAIL A13/E401 FOR MOUNTING.
 - CHATSWORTH 11252-71X 12" LADDER RACK SYSTEM PER SPECIFICATIONS AND DETAIL A11/E401.
 - SEE TEACHING WALL ELEVATION DETAIL K11/E402.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 100.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 103.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 104.
 - PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 107.

General Notes

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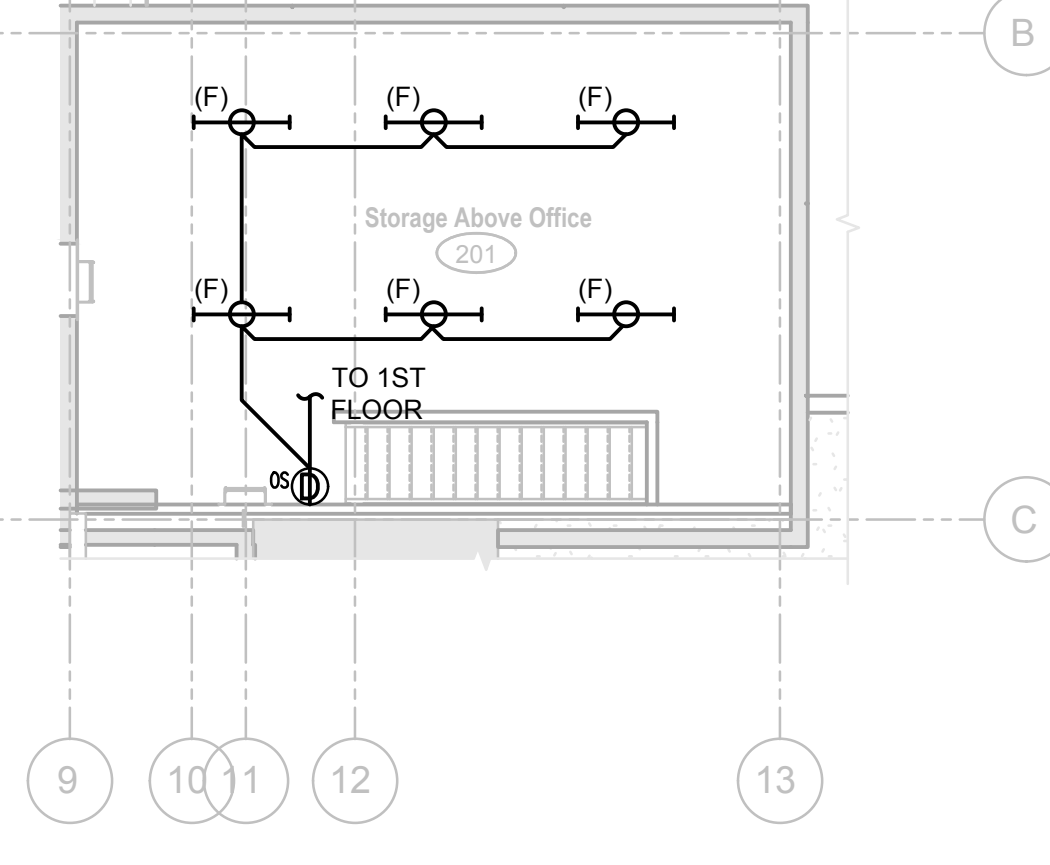
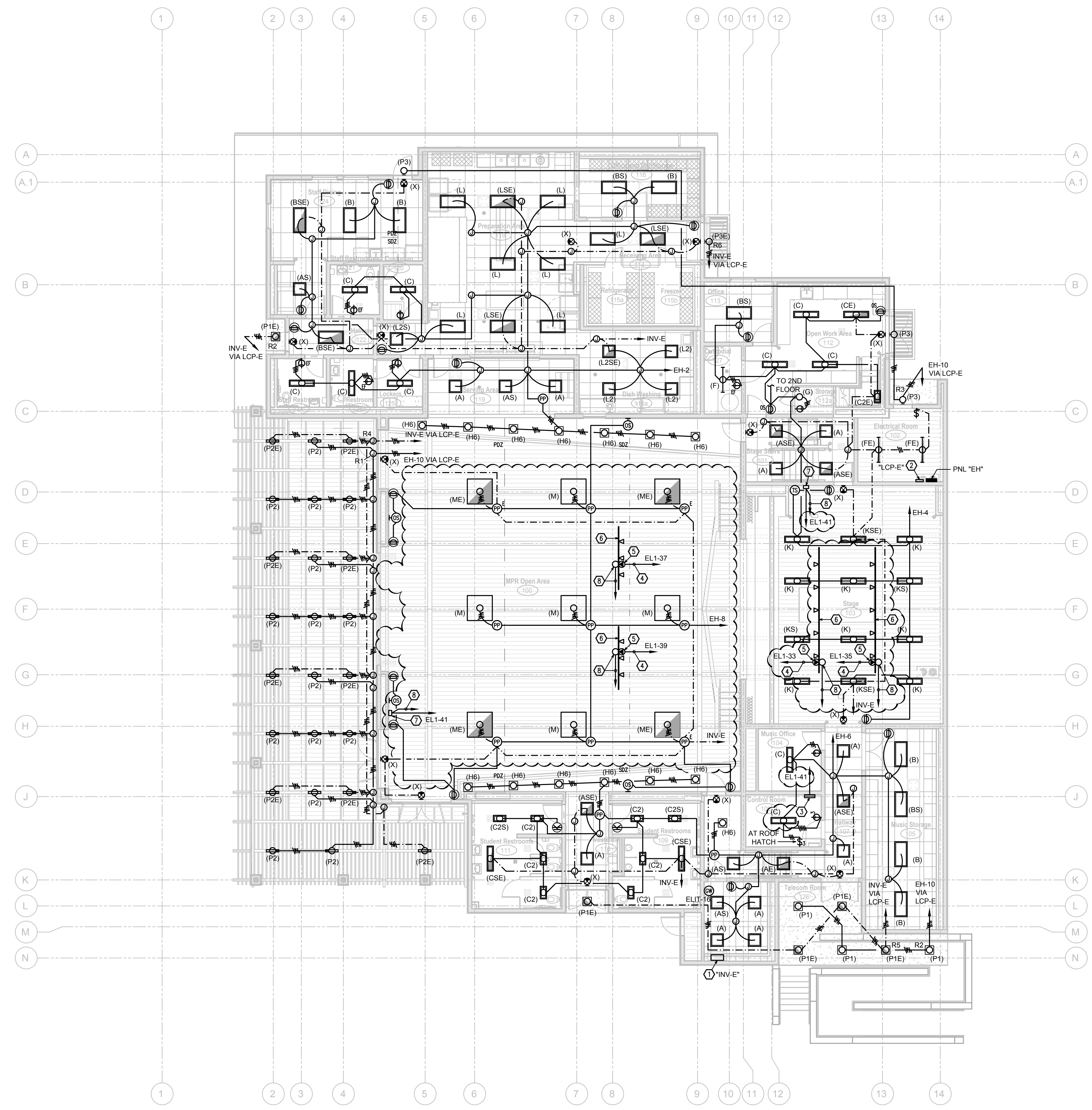
Building D
Low Voltage Plan
Drawing

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Revision		
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Project Number:	2116	Checked By: SD
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D/E401

A1 Building D - Low Voltage Plan
1/8" = 1'-0"



N15 Building E - 2nd Floor Lighting Plan
1/8" = 1'-0"

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

- ### KEYNOTES
- EMERGENCY LIGHTING INVERTER "INV-E" 90 MINUTES RUNTIME. IOTA #ISC-2200-277IN-277OUT-BYPASS-086/1P277/16AMP/ION. WHEN POWER FAILS, EMERGENCY LIGHTS AUTOMATICALLY SWITCH ON. SEE DETAIL H14X/E202 FOR MOUNTING. SEE ENLARGED ELECTRICAL PLAN J15/E/E201 FOR CIRCUIT.
 - LIGHTING CONTROL PANEL "LCP-E". LITHONIA #ARP-INTENC16NLT-16CR-MVOLT-1VB-HLK-SM-DTC. SEE ENLARGED ELECTRICAL PLAN N15/E/E201 FOR CIRCUIT.
 - THEATRICAL LIGHTING DMX CABINET. MOUNT IN LOCATION HIGH ON WALL PER MFGR INSTRUCTIONS.
 - RUN #10 WIRES WITH DEDICATED NEUTRALS AND HOMERUN VIA "LCP-E".
 - PROVIDE L5-20 LOCKING RECEPTACLE ABOVE BATTEN ON TRUSS. SEE DETAILS N5X/E202 AND N14X/E202.
 - THEATRICAL LIGHTS, DMX/RELAY MODULE, AND PIPE BATTEN. PROVIDE (3) LIGHTS PER BATTEN. MOUNT BATTEN AT BOTTOM CHORD OF TRUSS. SEE DETAILS N5X/E202, N10X/E202, AND N14X/E202.
 - COLOR TOUCHSCREEN CONTROLLER AND DMX CONSOLE OUTLET FOR THEATRICAL LIGHTS.
 - PROVIDE DMX OUTLET AND RUN DMX CABLE PER MFGR TO DMX CONTROLLER.

- ### THEATRICAL LIGHTING SYSTEM
- PROVIDE A COMPLETE AND OPERATIONAL THEATRICAL LIGHTING SYSTEM. THE SYSTEM SHALL BE COMPRISED OF A COLOR TOUCHSCREEN CONTROLLERS, CONSOLE OUTLETS, DMX PROCESSOR, WIRELESS TRANSCEIVERS, DMX/RELAY MODULES, CONTROL CABLING, POWER OUTLETS, PIPE BATTENS, AND FIVE-COLOR LED THEATRICAL LIGHTS. PROVIDE ALL PROGRAMMING, STARTUP, AND ANY ADDITIONAL REQUIRED COMPONENTS NEEDED FOR A FULLY FUNCTIONAL, TURN KEY SYSTEM. PROVIDE 8 HOURS OF TRAINING FOR OWNER'S DESIGNATED PERSONNEL.
- THE SYSTEM SHOWN ON THE PLANS IS BASED ON COMPONENTS FROM ETC AND PATHWAY. THE MAJOR SYSTEM COMPONENTS CONSIST OF:
- ONE (1) DMX CABINET. ABL PATHWAY #PWISA-50W-24VDC-SML-HOR-1NPWDMX-2REPUBB
 - TWO (2) INTERFACE TOUCHSCREENS. ABL PATHWAY #PWCHOREO-WM-512
 - TWO (2) "IMPRESSO" COMPATIBLE DMX CONSOLE OUTLETS
 - TWO (2) 10FT PIPE BATTENS CONSTRUCTED OF STANDARD 1.5" SCHEDULE 40 BLACK PIPE WITH THREE (3) ETC COLORSOURCE PAR JR (PART #CSPOTJ32550)
 - TWO (2) 20FT PIPE BATTENS CONSTRUCTED OF STANDARD 1.5" SCHEDULE 40 BLACK PIPE WITH FIVE (5) ETC COLORSOURCE PAR (PART #CSPARDB)
- THE THEATRICAL LIGHTING SYSTEM INSTALLATION SHALL BE INSTALLED AS PER THE MANUFACTURER'S APPROVED SHOP DRAWINGS AND THESE PLANS. INTERFACE THE THEATRICAL LIGHTING CONTROLS WITH THE BUILDING'S NUGHT CONTROLS.

General Notes

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ELECTRICAL
STATE OF CALIFORNIA

Consultant

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Fresno, CA 93727

Project

Building E
Lighting Plan

Drawing

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State of California

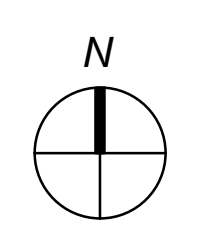
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No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision	
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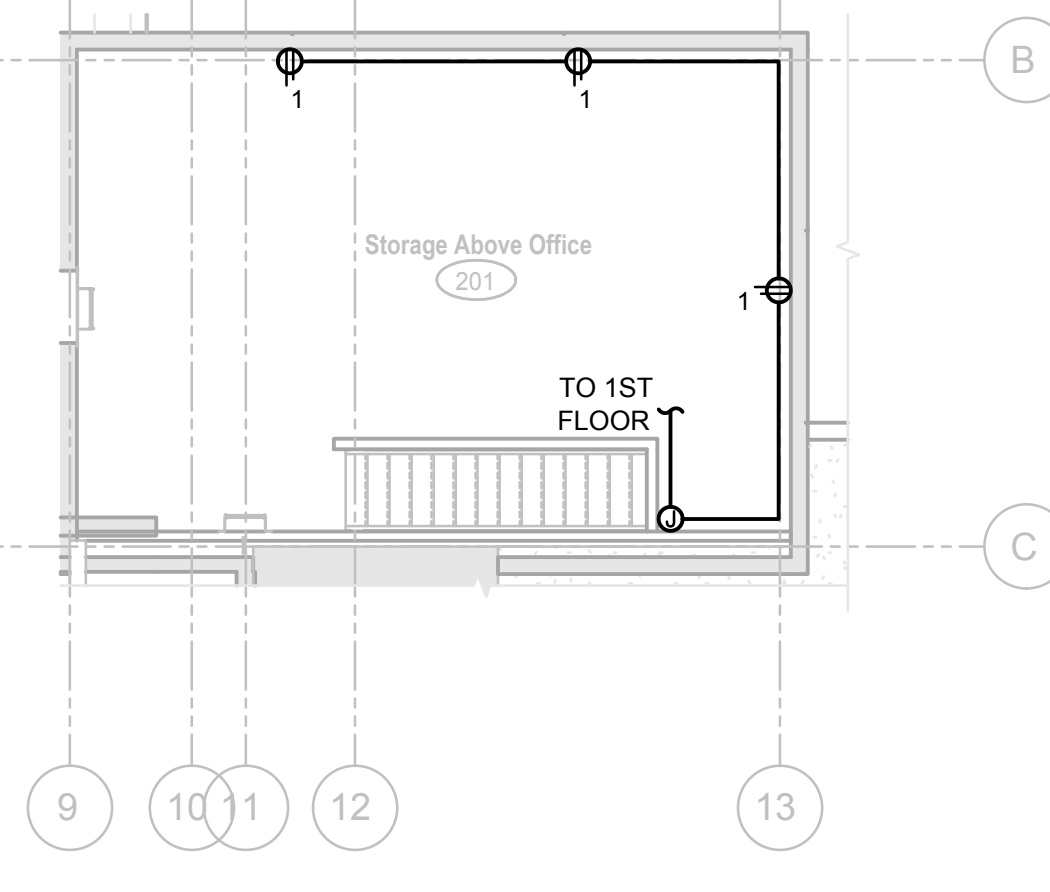
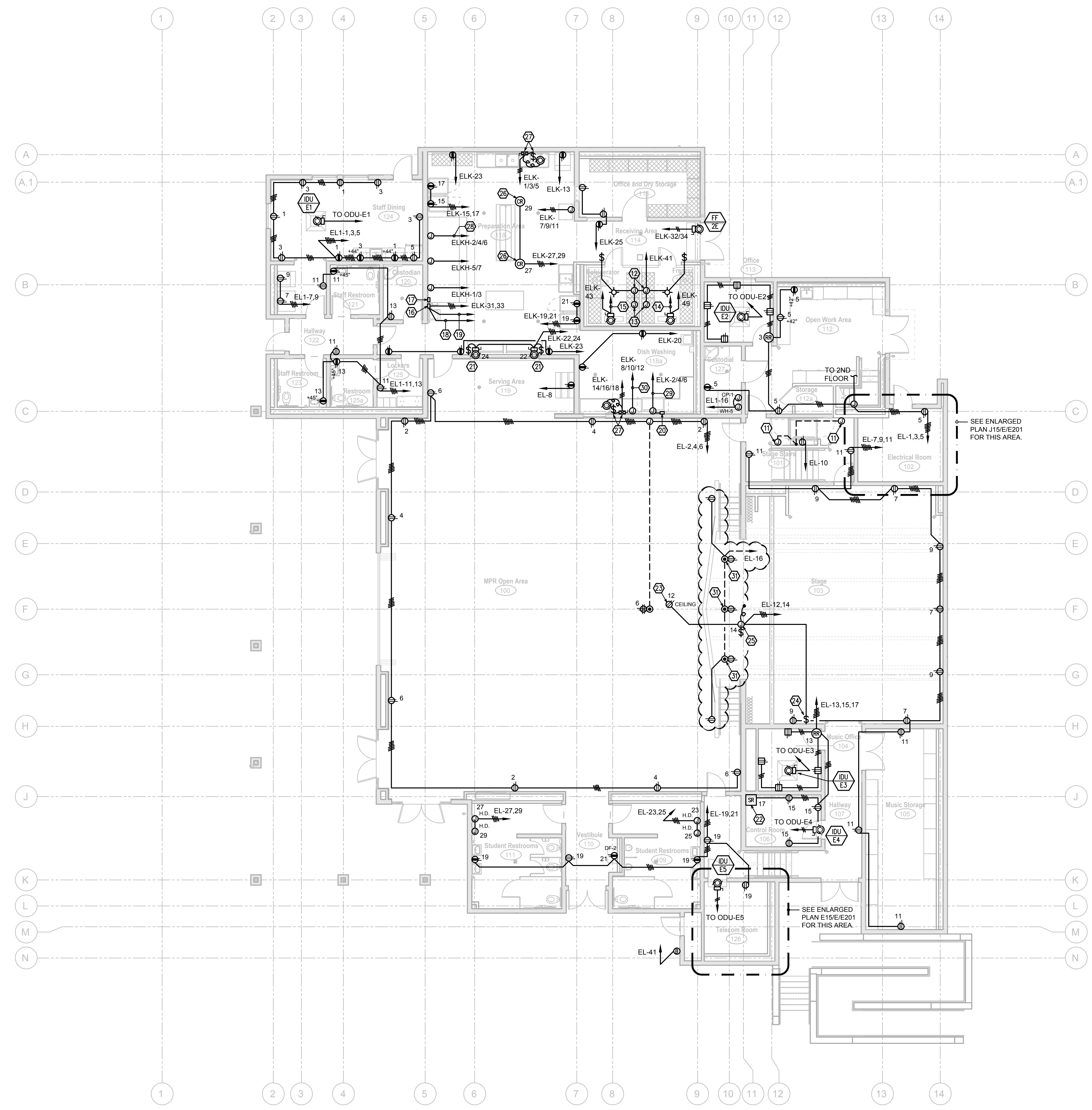
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Project Number:	2116	Checked By:	SD	
Date:	09/19/2022	Reviewed By:	SD	

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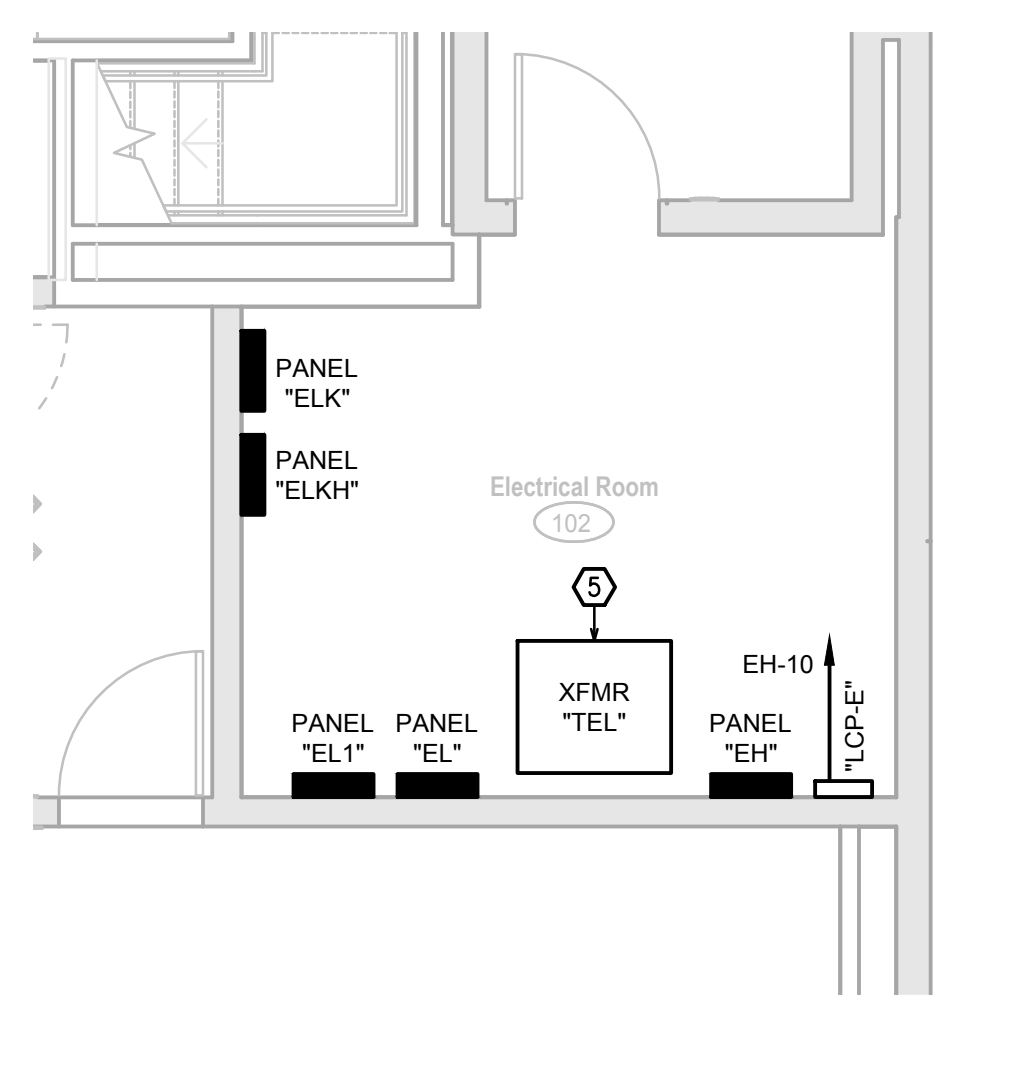


A1 Building E - Lighting Plan
1/8" = 1'-0"

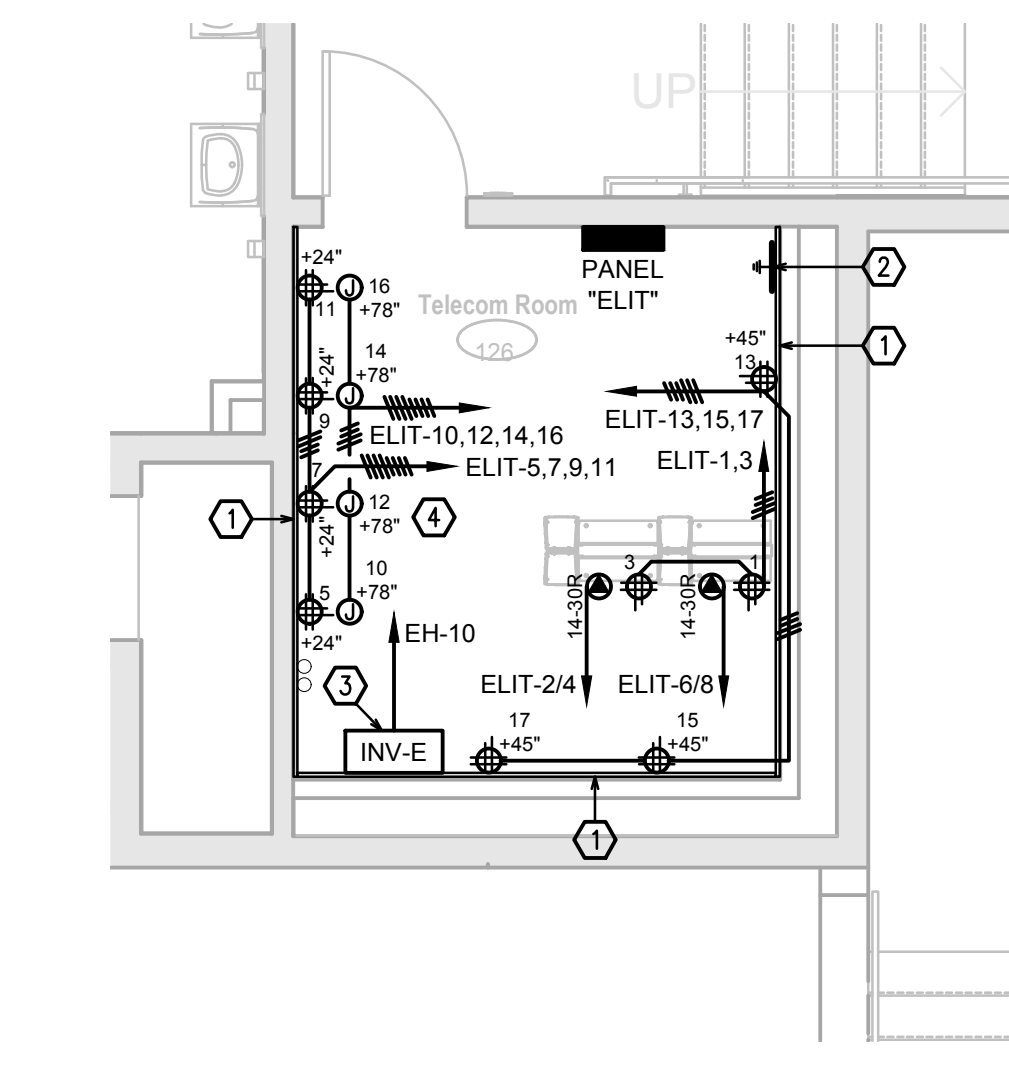
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N15 Building E - 2nd Floor Power Plan
1/8" = 1'-0"



J15 Building E - Enlarged Power Plan
1/4" = 1'-0"



E15 Building E - Enlarged Power Plan
1/4" = 1'-0"

DSA File No.:
10-48

DSA Application No.:
02-120543

Agency Approval

KEYNOTES

- 3/4" THICK x 8" HIGH, FIRE-RESISTANT PLYWOOD BACKBOARD, PAINTED WITH FIRE RESISTANT PAINT. SECURE PLYWOOD TO (2) METAL STUDS WITH #10 x 4" GALVANIZED FLAT HEAD SMS AT 8" CENTERS, WITH MIN. (4) SCREWS AT 8" CENTERS AT EACH WALL STUD, WITH MIN. 2 1/2" EMBEDMENT INTO WALL STUD.
- PROVIDE TELECOM GROUND BUS PER DETAIL N8X/E401 AND J8X/E401.
- EMERGENCY LIGHTING INVERTER PER DETAIL H14X/E202.
- CONNECT POWER TO FA, EMS, SECURITY SYSTEMS AND LIGHTING GATEWAY.
- PAD MOUNTED TRANSFORMER. SEE DETAIL D10X/E301 FOR MOUNTING. SEE POWER SINGLE LINE DIAGRAM G10X/E301.
- PROVIDE J-BOX FOR CALL BUTTONS AND STUD 3/4". INTO CONTROL COMPARTMENT OF LIFT.
- MAKE CONNECTIONS TO COLD BOX LIGHTS AND HEAT TRACE CABLE. INSTALL AND CONNECT LIGHTS AND SWITCHES PROVIDED BY MANUFACTURER.
- CONNECT TO SELF-REGULATING HEAT TRACE CABLE.
- CONNECT WALK-IN FREEZER EVAPORATOR TO CONDENSER ON ROOF. PROVIDE CONDUIT AND WIRING PER MANUFACTURER.
- CONNECT WALK-IN REFRIGERATOR EVAPORATOR TO CONDENSER ON ROOF. PROVIDE CONDUIT AND WIRING PER MANUFACTURER.
- HOOD EXHAUST SYSTEM WITH HOOD CONTROLS AND EXHAUST FAN CONTROLS. VERIFY LOCATION. CONNECT ALL ELECTRICAL PORTIONS, INCLUDING OUTLETS, LIGHTS, GAS SOLENOID, EXHAUST FAN, MAKE-UP AIR UNIT, TEMPERATURE SENSOR, AND CONTROLS. REFER TO MANUFACTURER DRAWINGS.
- FIRE SUPPRESSION SYSTEM. VERIFY LOCATION. 3/4". 2#14 TO FIRE SYSTEM MICROSWITCH IN HOOD CONTROL PANEL.
- CONNECT GAS SOLENOID.
- CONNECT TO FIRE SUPPRESSION SYSTEM.
- DISHWASHER HOOD EXHAUST FAN CONTACTOR KIT. CONNECT TO ROOF EXHAUST FAN AND INTERLOCK WITH DISHWASHER CONTROLS PER MECHANICAL.
- CONNECT TO MOTORIZED ROLL-UP DOOR AND CONTROLS PER MANUFACTURER. VERIFY LOCATION AND HEIGHT WITH MANUFACTURER INFORMATION PRIOR TO ROUGH-IN. PROVIDE ALL REQUIREMENT PER MANUFACTURER.
- PROVIDE AUDIO-VIDEO CABINET PER SPECS. MOUNT QUAD OUTLET INSIDE CABINET. SEE DETAIL E6X/E402. VERIFY LOCATION PRIOR TO ROUGH-IN.
- POWER OUTLET FOR PROJECTOR. VERIFY LOCATION OF PROJECTOR/MOUNT WITH FACTORY DATA IN RELATION TO SCREEN PRIOR TO ROUGH-IN. MOUNT PROJECTOR PER DETAIL F1X/E302.
- MOTORIZED SCREEN FACTORY WALL CONTROLLER. VERIFY LOCATION PRIOR TO ROUGH-IN. VERIFY ALL REQUIREMENT PER MANUFACTURER.
- PROVIDE L5-20R TWIST-LOCK POWER OUTLET AND CONNECT MOTORIZED SCREEN. VERIFY LOCATION PRIOR TO ROUGH-IN.
- RETRACTABLE CORD REEL WITH QUAD GFI OUTLET IN RECESSED CEILING ENCLOSURE. VERIFY LOCATION PRIOR TO ROUGH-IN. SEE DETAIL A1X/E302.
- CONNECT TO SINK DISPOSAL AND CONTROLS PER MANUFACTURER. VERIFY LOCATION PRIOR TO ROUGH-IN.
- 1 1/4" C. 3#4, 1#6G.
- 1 1/4" C. 3#2, 1#6G.
- 1 1/4" C. 3#3, 1#6G.
- PROVIDE FLOOR BOX WITH POWER, DATA, AV INPUTS, AND MICROPHONE INPUTS. SEE LOW VOLTAGE PLAN A1E/E401 FOR LOW VOLTAGE SYSTEMS INFORMATION. VERIFY LOCATION PRIOR TO ROUGH-IN.

General Notes

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 E17850
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 STATE OF CALIFORNIA

Consultant

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Fresno, CA 93727

Building E
Power Plan

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 No. C37192
 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23
Revision		

Designed By: SD
 Drawn By: HDE
 Project Number: 2116
 Date: 09/19/2022

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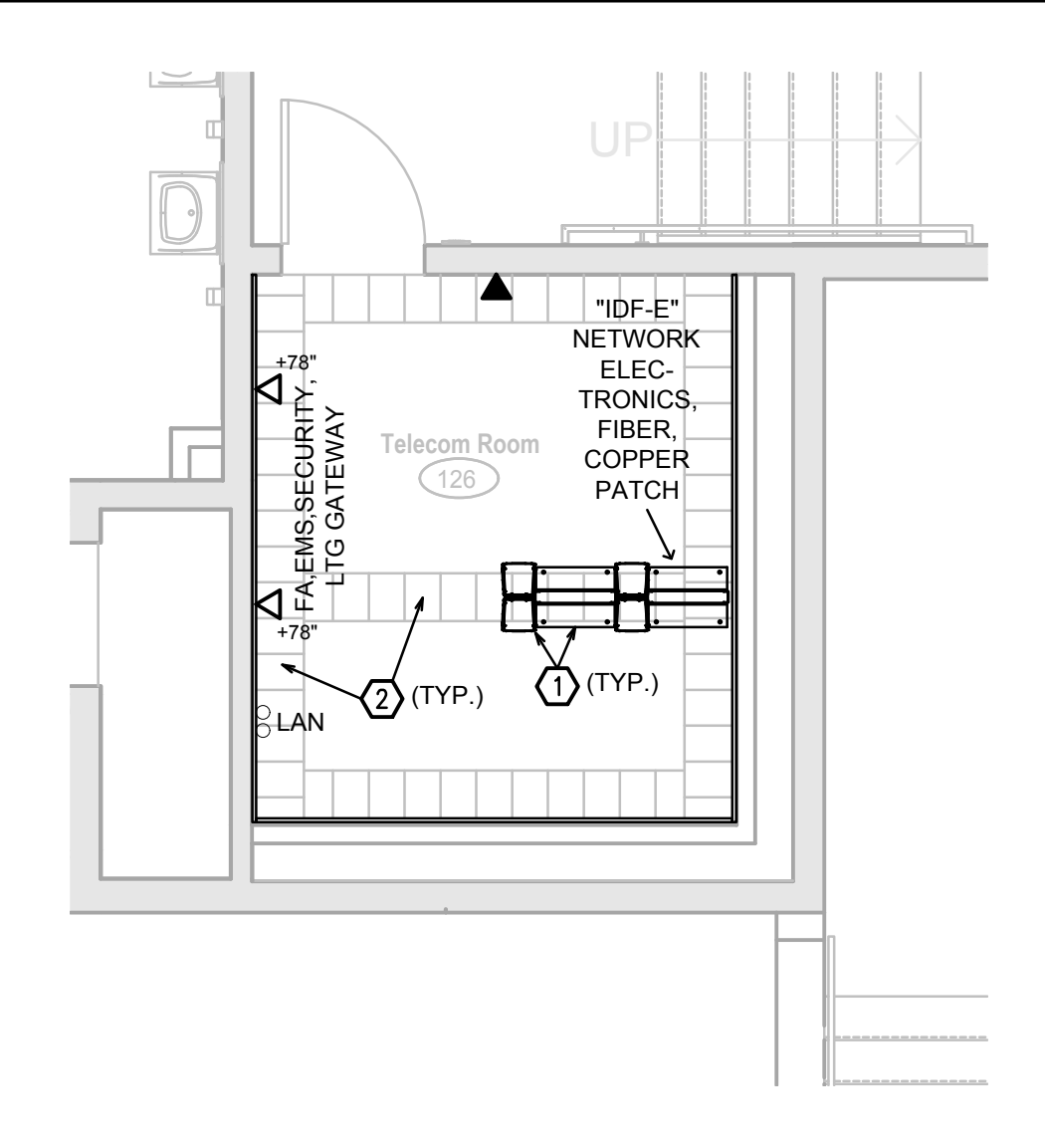
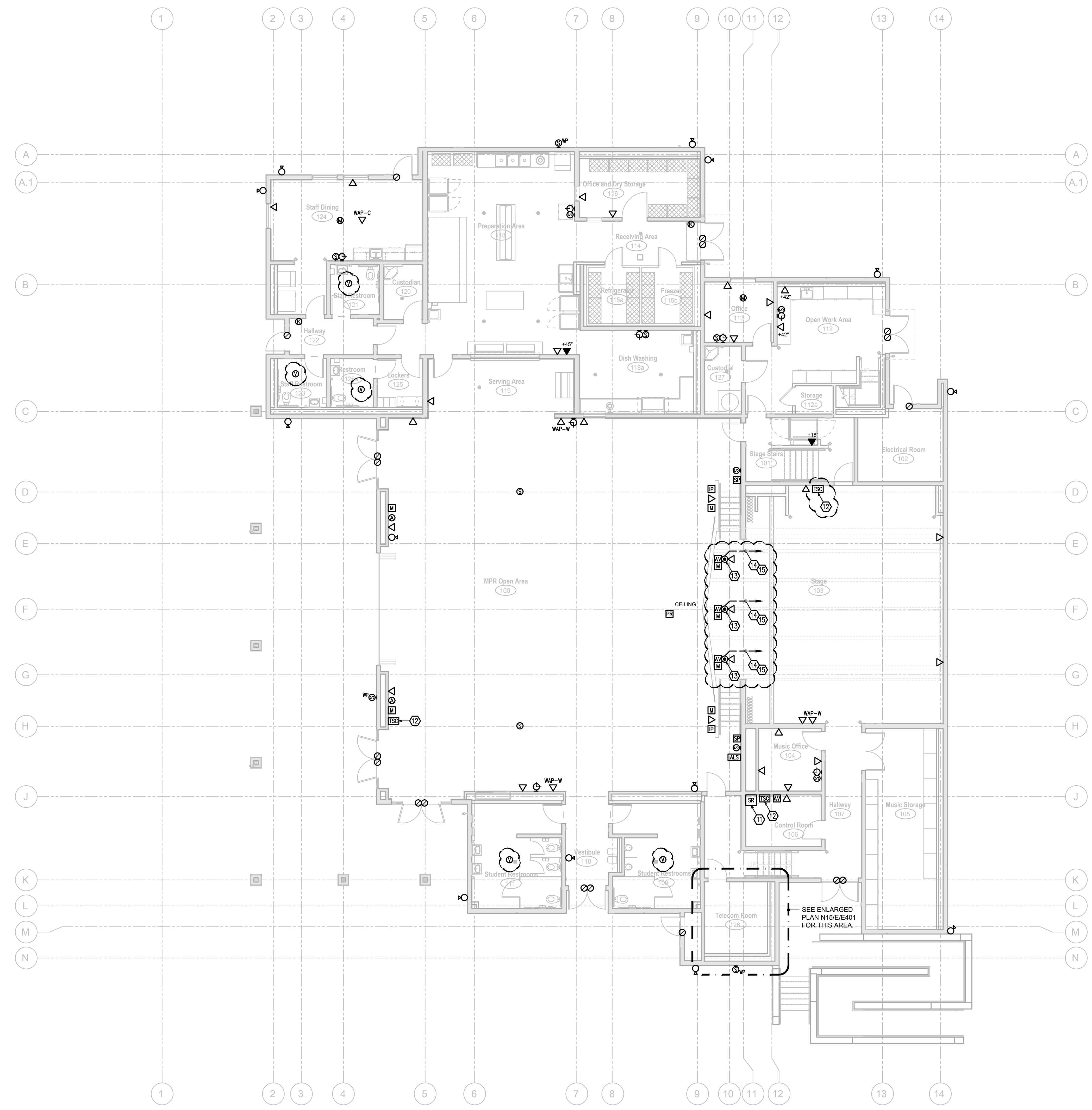
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E/E201
 Sheet: _____ of: _____

A1 Building E - Power Plan
1/8" = 1'-0"

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N15 Building E - Enlarged Low Voltage Plan
1/4" = 1'-0"

DSA File No.: 10-48
DSA Application No.: 02-120543
Agency Approval

- KEYNOTES**
- 2-POST RACK(S), CABLE MANAGEMENT SECTION, AND APPURTENANCES PER SPECS. SEE DETAIL A13/E401 FOR MOUNTING.
 - CHATS WORTH 11252-71X 12" LADDER RACK SYSTEM PER SPECIFICATIONS AND DETAIL A11/E401.
 - PROVIDE AUDIO-VIDEO CABINET PER SPECS. MOUNT DATA OUTLET INSIDE CABINET. VERIFY LOCATION PRIOR TO ROUGH-IN.
 - PROVIDE AUDIO-VIDEO TOUCH-SCREEN CONTROLLER PER SPECS. VERIFY LOCATION PRIOR TO ROUGH-IN. CAT6 CABLE TO AUDIO-VIDEO CABINET.
 - PROVIDE FLOOR BOX WITH DATA, AV INPUTS, AND MICROPHONE INPUTS. VERIFY LOCATION PRIOR TO ROUGH-IN.
 - 1 1/4". TO AV CABINET WITH CABLING.
 - 3/4". WITH CAT6 CABLE TO IDF.

General Notes

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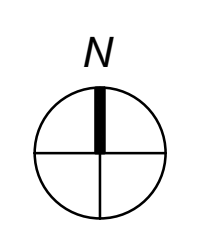
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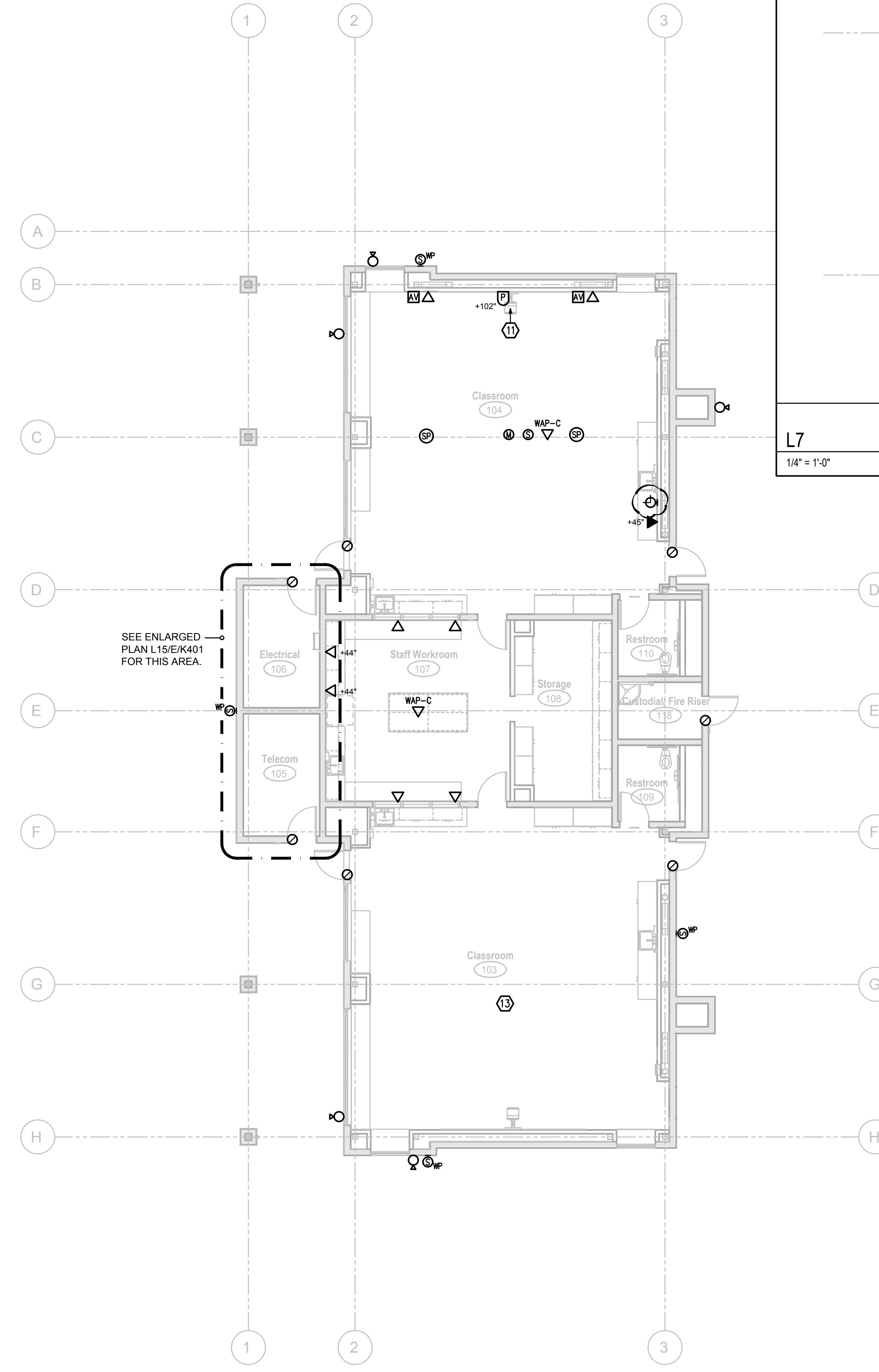
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E/E401

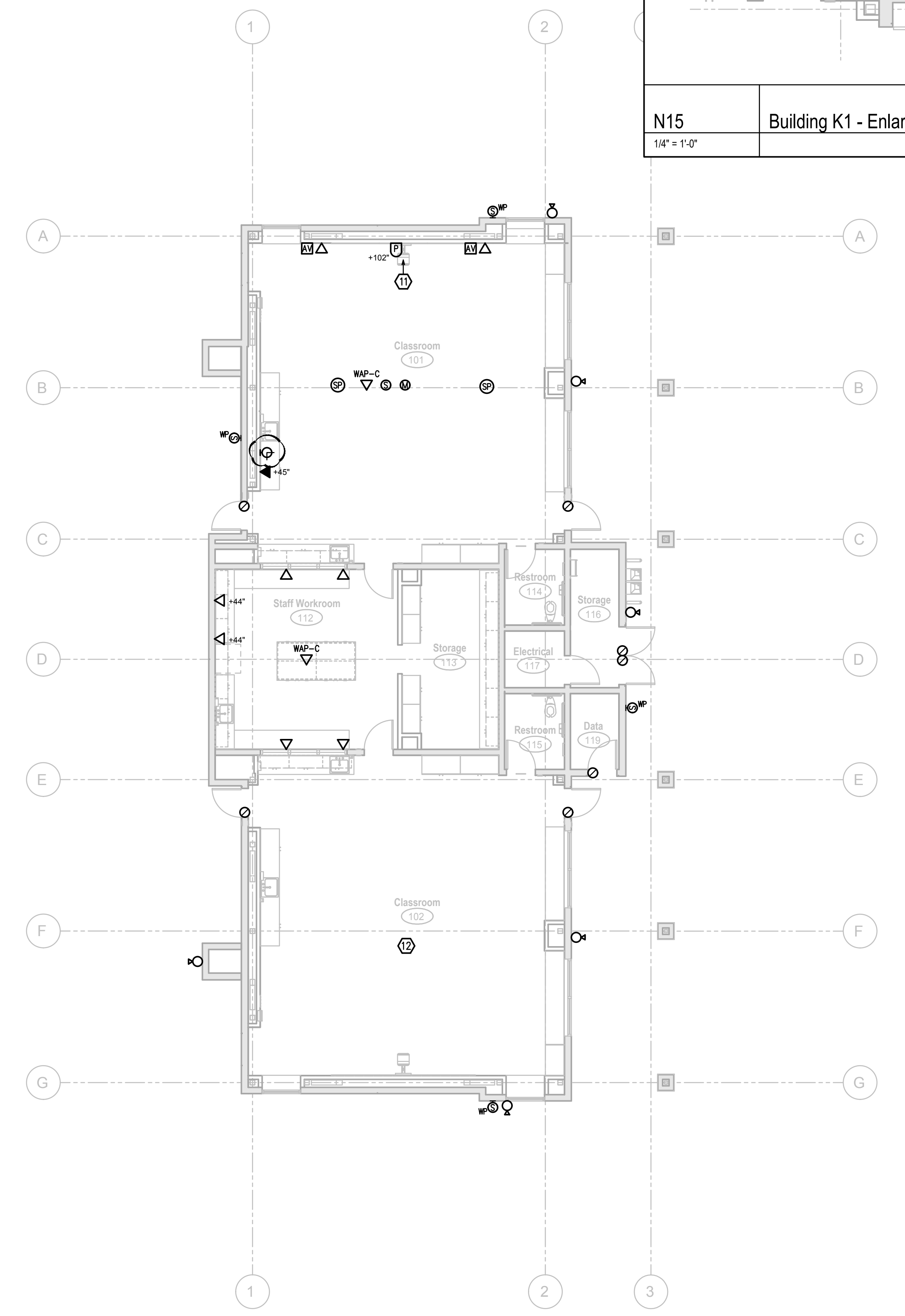
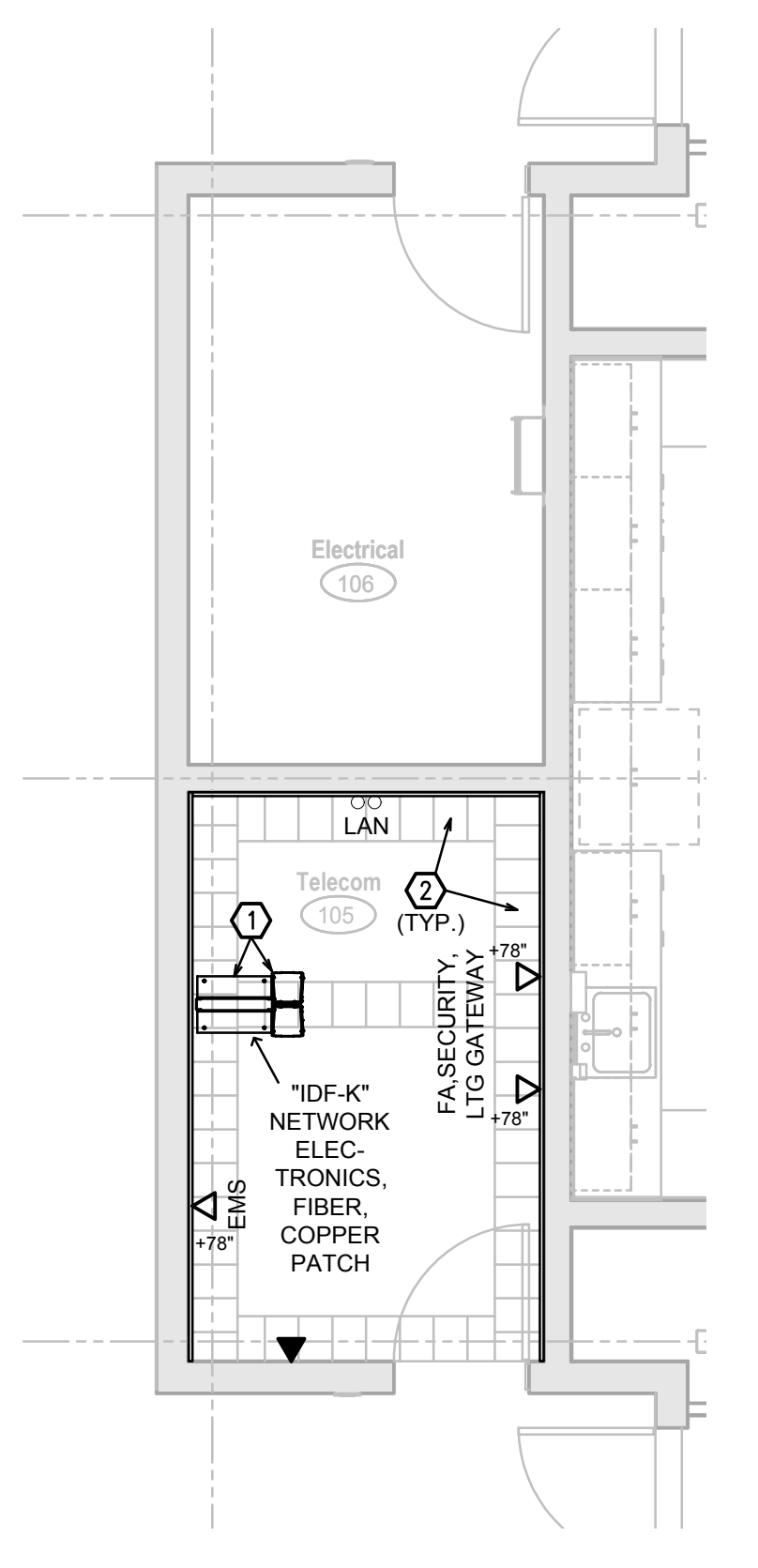
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A1 Building E - Low Voltage Plan
1/8" = 1'-0"

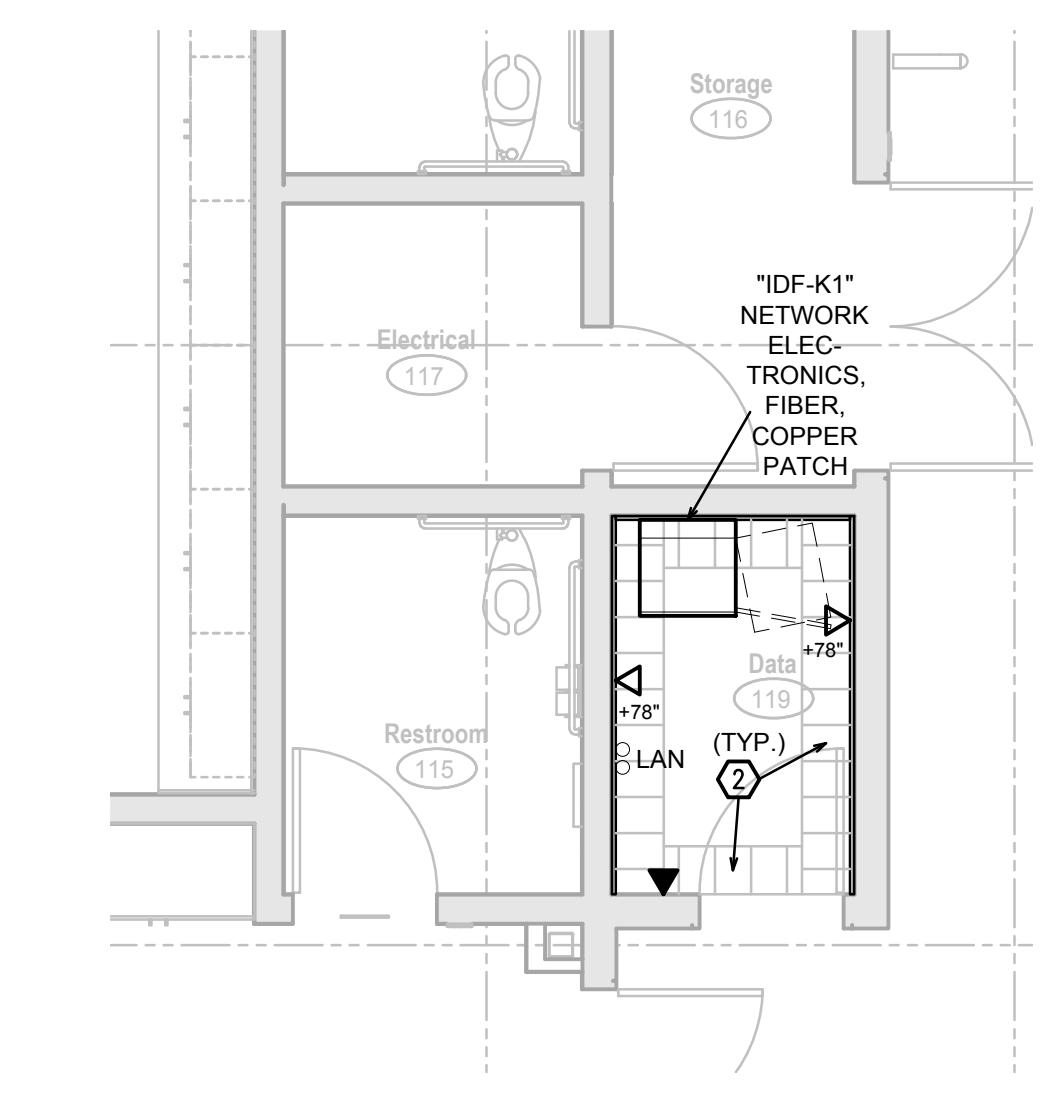




L7
1/4" = 1'-0"
Building K2 - Enlarged Low Voltage Plan



N15
1/4" = 1'-0"
Building K1 - Enlarged Low Voltage Plan



DSA File No.: 10-48

DSA Application No.: 02-120543

Agency Approval

KEYNOTES

1. 2-POST RACK(S), CABLE MANAGEMENT SECTION, AND APPURTENANCES PER SPECS. SEE DETAIL A13/X/E401 FOR MOUNTING.
2. CHATSWORTH 11252-71X 12" LADDER RACK SYSTEM PER SPECIFICATIONS AND DETAIL A11/X/E401.
3. IDF CABINET PER SPECS. SEE DETAIL E6/X/E402 FOR MOUNTING.
11. SEE TEACHING WALL ELEVATION DETAIL K1/X/E402.
12. PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 101.
13. PROVIDE ELECTRICAL INSTALLATION PER CLASSROOM 104.

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A1
1/8" = 1'-0"
Building K2 - Low Voltage Plan

A9
1/8" = 1'-0"
Building K1 - Low Voltage Plan

General Notes

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Consultant

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Fresno, CA 93727

Project

Building K
Low Voltage Plan

Drawing

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Architect

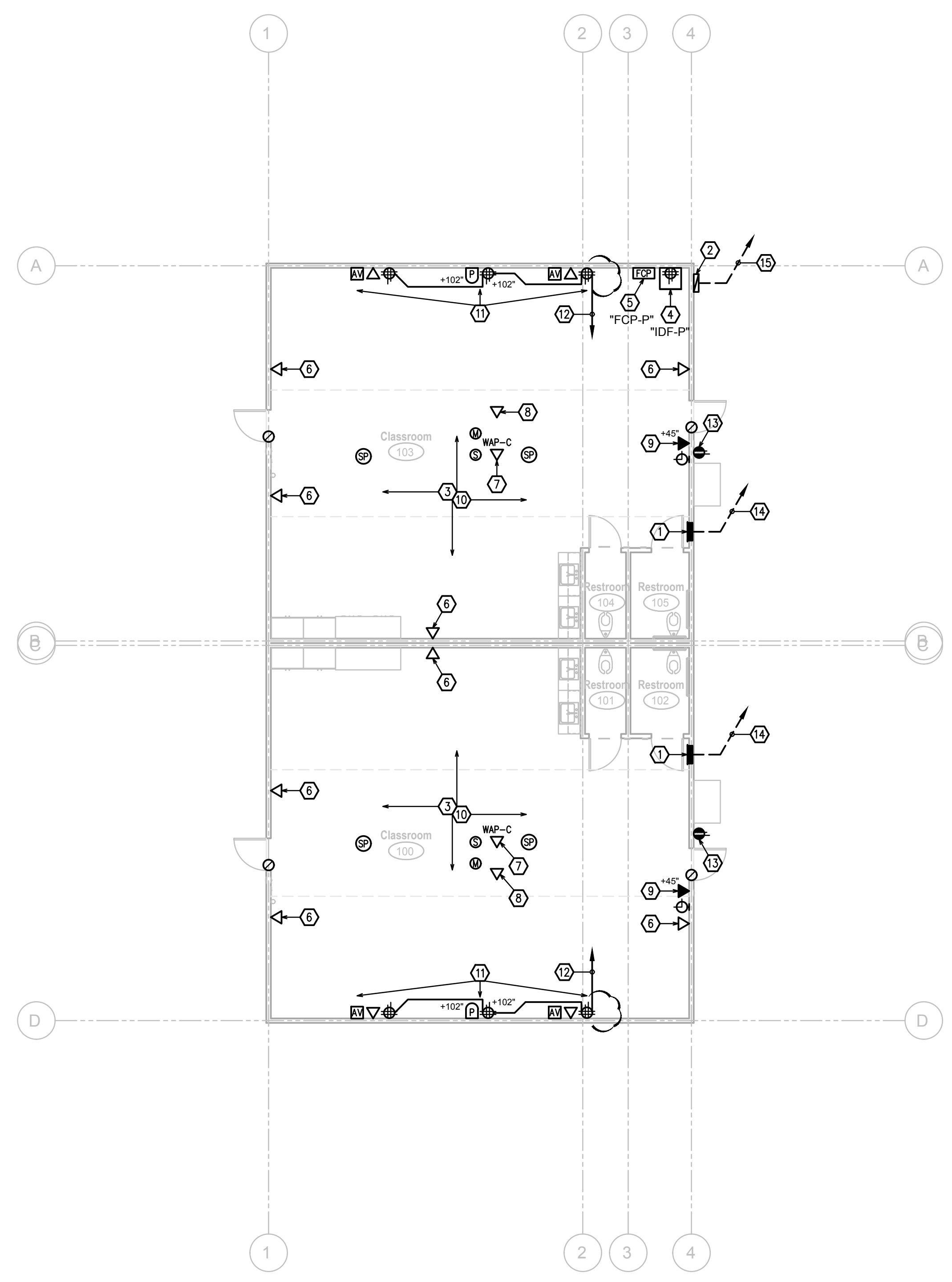
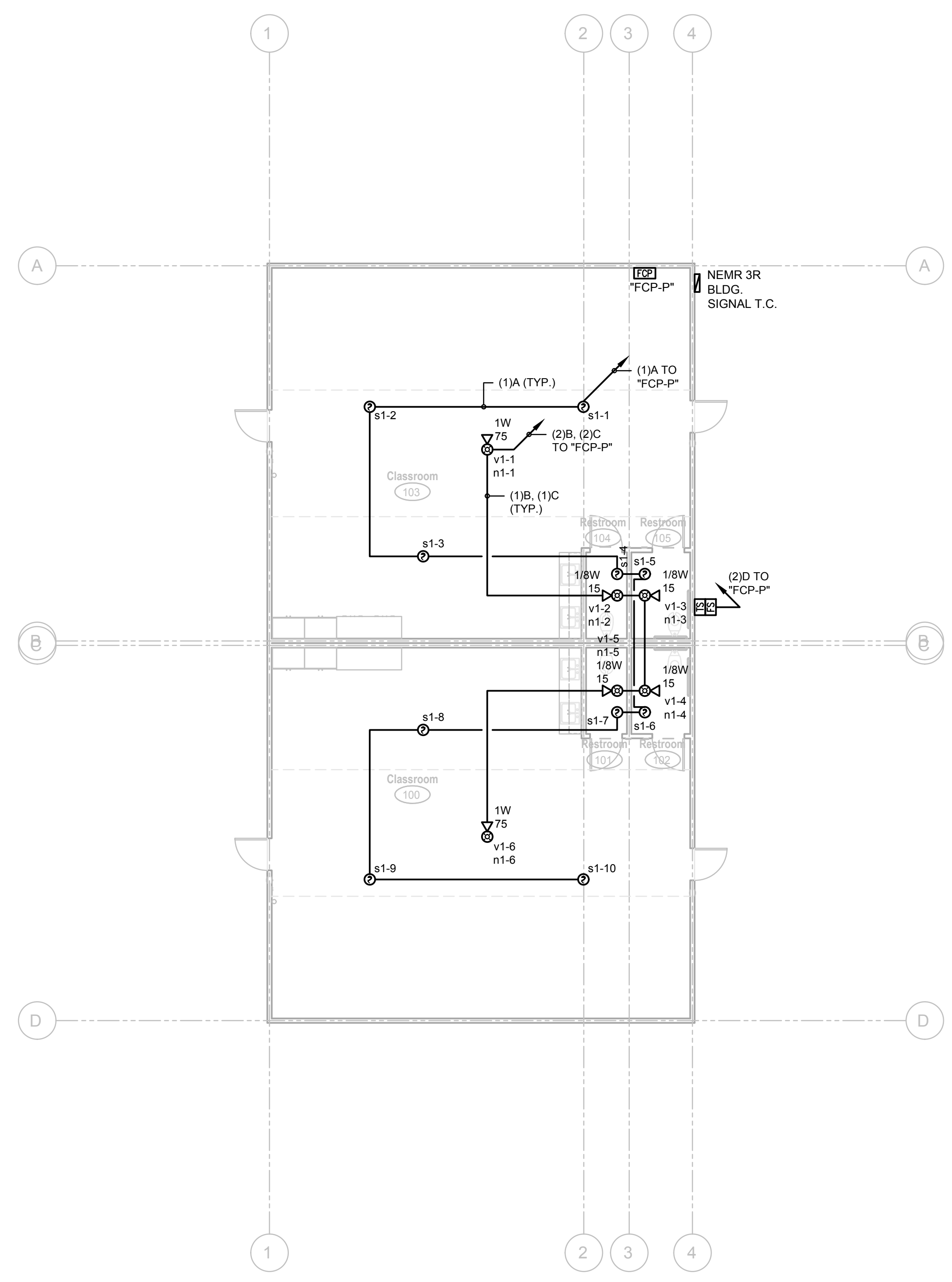
No.	Revision/Submission	Date
2	Addendum #2	02/24/23

Revision

Designed By:	SD	Copyright	2022	Darden Architects
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Scale:	As indicated	Drawn By:	HDE	K/E401
Project Number:	2116	Checked By:	SD	
Date:	09/19/2022	Reviewed By:	SD	

2/23/2023 7:54:48 PM Z:\Clients\Darden Architects\22066 - CUSD Fowler-McKinley\ES\CAD Files\22066 - Elec Buildings Backcheck.dwg




DSA File No.: 10-48
 DSA Application No.: 02-120543
 Agency Approval

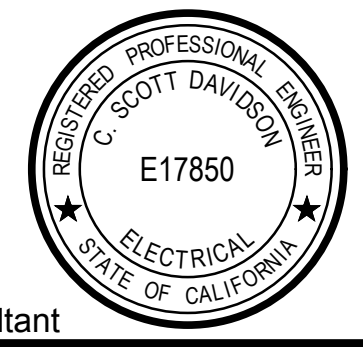
- KEYNOTES**
- PORTABLE BUILDING PANEL PRE-INSTALLED BY MANUFACTURER. RECONNECT POWER AND GROUND PER DETAIL A15/E304 AND A10/X/E304. BOND ALL BUILDING MODULES TOGETHER PER DETAIL D15/E304.
 - PORTABLE BUILDING SIGNAL TERMINAL CABINET. NEMA 3R HINGED AND LOCKABLE ENCLOSURE AT +66" TO TOP. INSTALL WIRE GUTTER AT ATTIC HEIGHT WITH (2) 2"C & (1) 1"C EXTERIOR RISERS AND NIPPLES INTO ACCESSIBLE ATTIC. PAINT TO MATCH BUILDING. INSTALL PATCH PANELS AND MAKE TERMINATIONS AT INTERIOR. SEE DETAIL H14/X/403.
 - ASSEMBLE PORTABLE BUILDING. RECONNECT POWER AND LIGHTING SYSTEMS SEPARATED PRIOR TO TRANSPORT.
 - IDF CABINET PER DETAIL M14/X/403 AND SPECIFICATIONS. INSTALL OUTLET AT INTERIOR AND CONNECT TO DEDICATED 120V 20A CIRCUIT IN BUILDING PANELBOARD.
 - FIRE ALARM CONTROL PANEL. CONNECT TO DEDICATED 120V 20A 1-POLE CIRCUIT BREAKER WITH RED HANDLE LOCK-ON DEVICE IN BUILDING PANELBOARD. CONNECT FA. SEE FIRE ALARM SHEETS. SEE DETAIL M10/X/E403 FOR MOUNTING.
 - PROVIDE INDICATED JACKS AT PRE-INSTALLED BOX BY BLDG. MFCR AND CONNECT TO IDF.
 - PROVIDE INDICATED JACKS FOR WIRELESS ACCESS POINT. INSTALL PER DETAIL G13/X/E401.
 - PROVIDE INDICATED JACKS FOR FUTURE CEILING PROJECTOR. COIL UP 6 FT. EXTRA CABLE WITH JACK ATTACHED AND SECURE IN ATTIC SPACE.
 - PROVIDE WALL MOUNTED VOICE JACK FOR VoIP HANDSET AT PRE-INSTALL BOX BY BLDG. MFCR, ADJACENT TO DOOR.
 - PROVIDE ELECTRICAL IMPROVEMENTS AS SHOWN.
 - PROVIDE INDICATED JACKS AND DEVICES FOR WALL MOUNTED PROJECTOR SYSTEM. SEE TEACHING WALL ELEVATION DETAIL K11/X/E402. INSTALL PROJECTOR MOUNT PER DETAIL E11/X/E402.
 - HOMERUN TO 120V 20A 1-POLE CIRCUIT BREAKER IN BUILDING PANELBOARD.
 - WEATHERPROOF GFI OUTLET PRE-INSTALLED BY MANUFACTURER.
 - HOMERUN TO PEDESTAL MOUNTED PANELBOARD "RNL". SEE SITE ELECTRICAL PLAN A1/SD/E201 AND POWER SINGLE LINE DIAGRAM G10/X/E301.
 - 2"C FIBER, 2"C SIGNAL, AND 1"C FA TO PEDESTAL MOUNTED TERMINAL CABINET. SEE SITE ELECTRICAL PLAN A1/SD/E201. PROVIDE CABLING AND CONNECTION PER SITE CABLE LINE DIAGRAMS M11/X/E402 AND G11/X/E402. CONNECT FA PER FIRE ALARM SHEETS.

- GENERAL NOTES**
- ALL WORK SHALL BE IN ACCORDANCE WITH CUSD SPECIFICATIONS. PROVIDE COMPLETE AND OPERATIONAL SYSTEMS. ANY DISCREPANCIES MUST BE ADDRESSED BY RFI PRIOR TO BID.
 - NOTIFY ENGINEER OF ANY CONDITIONS THAT MAY PREVENT INSTALLATIONS AS SHOWN IN THIS DRAWING.
 - CUSD REQUIRES CONCEALED RACEWAYS AND FLUSH INSTALLATION OF DEVICES IN WALLS. WHERE THIS IS PARTICULARLY DIFFICULT, AND WITH APPROVAL FROM DISTRICT, THE CONTRACTOR MAY BE SURFACE RACEWAYS.

General Notes



Hardin-Davidson Engineering
 356 Pollasky Ave., Suite 200, Clovis, CA 93612
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 www.hardin-davidson.com



Consultant

McKinley/Fowler Elementary School
 Clovis Unified School District
 Fresno, CA 93727

Project

Building P
 Electrical Plan and Fire Alarm Plan

Drawing



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Architect

No.	Revision/Submission	Date
2	Addendum #2	02/24/23
Revision		
Designed By:	SD	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HDE
Project Number:	2116	Checked By: SD
Date:	09/19/2022	Reviewed By: SD

P/E101

Sheet: _____ of: _____

FIRE PROTECTION SHEET INDEX

SHEET NUMBER	SHEET NAME
X/F001	GENERAL INFORMATION
X/F002	SITE PLAN
A/F101	GROUND LEVEL PIPING PLAN
A/F201	GROUND LEVEL RCP
A/F401	SECTIONS
B/F101	GROUND LEVEL PIPING PLAN
B/F201	GROUND LEVEL RCP
B/F401	SECTIONS
C/F101	GROUND LEVEL PIPING PLAN
C/F201	GROUND LEVEL RCP
C/F401	SECTIONS
D/F101	GROUND LEVEL WEST PIPING PLAN
D/F102	GROUND LEVEL EAST PIPING PLAN
D/F201	GROUND LEVEL RCP EAST
D/F202	GROUND LEVEL RCP WEST
D/F401	SECTIONS
E/F101	GROUND LEVEL PIPING PLAN
E/F201	GROUND LEVEL RCP
E/F401	SECTIONS
K1/F101	GROUND LEVEL PIPING PLAN
K1/F201	GROUND LEVEL RCP
K1/F401	SECTIONS
K2/F101	GROUND LEVEL PIPING PLAN
K2/F201	GROUND LEVEL RCP
K2/F401	SECTIONS
X/F501	DETAILS

HYDRAULIC CALCULATION CRITERIA

- ALL SPRINKLER SYSTEMS THROUGHOUT THE BUILDING SHALL BE HYDRAULICALLY CALCULATED BASED ON COORDINATED SHOP DRAWINGS.
- SPRINKLER SYSTEM LAYOUT AND CALCULATIONS SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE, NFPA 13, OWNER'S INSURANCE COMPANY REQUIREMENTS AND GOOD ENGINEERING PRACTICE.
- OCCUPANCY CLASSIFICATION:
 - LIGHT HAZARD OCCUPANCY: CLASSROOMS, CORRIDORS, COMMON AREAS.
 - ORDINARY HAZARD GROUP-1 OCCUPANCY: STORAGE, MECHANICAL, ELECTRICAL ROOMS.
 - ORDINARY HAZARD GROUP-2 OCCUPANCY: COMMERCIAL KITCHEN AREA.
- SPRINKLERS PROTECTING LIGHT HAZARD OCCUPANCY SHALL PROVIDE A MINIMUM DENSITY DISCHARGE OF .10 GPM/SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1,500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD- 225 SQ.FT.
- SPRINKLERS PROTECTING ORDINARY HAZARD GROUP-1 OCCUPANCY SHALL PROVIDE A MINIMUM DENSITY DISCHARGE OF .15 GPM/SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1,500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD- 130 SQ.FT.
- SPRINKLERS PROTECTING ORDINARY HAZARD GROUP-2 OCCUPANCY SHALL PROVIDE A MINIMUM DENSITY DISCHARGE OF .20 GPM/SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1,500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD- 130 SQ.FT.
- MINIMUM PRESSURE AT ANY SPRINKLER HEAD SHALL BE AS REQUIRED BY HYDRAULIC CALCULATIONS BUT IN NO CASE LESS THEN 7-PSI.

GENERAL NOTES

- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS FOR THE CONTRACTOR TO FURNISH AND INSTALL A COMPLETE NEW WET FIRE SPRINKLER PROTECTION SYSTEM FOR THE BUILDING IN FULL COMPLIANCE WITH THE STATE OF CALIFORNIA AND BUILDING CODES INCLUDING: VALVES, RISERS, AND ALARMS AS REQUIRED. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL INSTALLATION ASPECT OF THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH APPLICABLE CODES.
- THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION INCLUDING BUT NOT LIMITED TO, STATE BUILDING AND FIRE CODES AND ALL APPENDICES, THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD NO. 13, 14 & 20 AS ADOPTED BY THE STATE OF CALIFORNIA, AND THE OWNER'S INSURANCE UNDERWRITERS.
- IF THERE ARE ANY QUESTIONS CONCERNING WHAT THE INSURANCE UNDERWRITER WILL REQUIRE IN ORDER TO APPROVE THE COMPLETED INSTALLATION (PIPING SIZING, LOCATION OF RISERS, TEST STATIONS, HYDRANTS, ALARMS, ETC.) THE BIDDER SHALL CONSULT WITH THE INSURANCE UNDERWRITER BEFORE SUBMITTING HIS BID. FAILURE TO CONSULT WITH THE INSURANCE UNDERWRITER DOES NOT RELIEVE THIS CONTRACTOR FROM HIS RESPONSIBILITY BY THE COMPLETION OF ANY AND ALL WORK REQUIRED WITH NO EXTRA CHARGES TO THE OWNER.
- FURNISH ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND SUPERVISION REQUIRED FOR THE INSTALLATION OF COMPLETE SYSTEMS AND ALL NECESSARY PIPING, SPRINKLER HEADS, TEST CONNECTIONS, VALVES, DRAINS AND SPRINKLER ALARMS, FLOW SWITCHES, HORNS OR GONGS, DETECTOR CHECK VALVES, SIAMASE FIRE DEPARTMENT CONNECTIONS, PRESSURE GAUGES, AND OTHER REQUIRED COMPONENTS.
- ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. CONTRACTOR SHALL PROVIDE PROOF OF COMPLIANCE WITH THIS REQUIREMENT UPON REQUEST.
- ALL SPRINKLER PIPING SHALL BE CONCEALED IN ALL FINISHED AREAS, AVOIDING INTERFERENCE WITH LIGHTS, DUCTS, PIPES, ETC. BALANCE MAY BE RUN EXPOSED. ANY CONFLICTS DURING INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- SPRINKLER HEADS SHALL NOT INTERFERE WITH LIGHTING FIXTURES, SPEAKERS, AIR CONDITIONING DIFFUSERS AND GRILLES, ETC. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PRIOR TO SUBMITTING SHOP DRAWING.
- EXACT LOCATION OF SPRINKLER HEADS AND PIPING SHALL BE COORDINATED WITH OTHER TRADES AND THE ARCHITECT'S REFLECTED CEILING PLAN BEFORE INSTALLATION.
- CUTTING AND NOTCHING OF JOISTS IS NOT ACCEPTABLE AND WILL NOT BE PERMITTED. ANY DAMAGE CAUSED TO THE BUILDING STRUCTURE DURING INSTALLATION SHALL BE REPAIRED AT THIS CONTRACTOR'S EXPENSE.
- ALL ELECTRICAL REQUIREMENTS FOR FIRE PROTECTION AND SPRINKLER SYSTEM ARE TO BE INCLUDED AS PART OF THIS CONTRACTOR'S RESPONSIBILITY. THIS CONTRACTOR SHALL SUB-CONTRACT FOR ALL WIRING AND RELATED COMPONENT REQUIREMENTS WITH SEPARATE ELECTRICAL CONTRACTOR. ALARM WIRING REQUIREMENTS FOR THE FIRE PROTECTION AND ALARM SYSTEM ARE TO BE INCLUDED IN THIS WORK.
- WHEN COMPLETED, THE ENTIRE SPRINKLER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH CHAPTER 25 OF NFPA 13 AND AS REQUIRED BY THE RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION. ALL SYSTEMS MUST BE FREE OF LEAKS AND ANY OTHER DEFECTS.
- ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR AFTER ACCEPTANCE BY THE OWNER AND ARCHITECT, AGAINST DEFECTIVE MATERIALS AND LABOR AND IMPROPER DESIGN.
- CONTRACTOR SHALL MAKE AN ALLOWANCE FOR A MINIMUM OF 5% ADDITIONAL SPRINKLER HEADS TO BE INSTALLED AS TO PROVIDE ADEQUATE COVERAGE DUE TO ANY OBSTRUCTIONS, DUCTWORK, PIPING, ETC. INSTALLED DURING CONSTRUCTION WHICH MAY ALTER THE ORIGINAL SPRINKLER DESIGN.
- FURNISH SPRINKLER CABINETS OF FINISHED STEEL AND HINGED COVER SIMILAR TO POTTER-ROEMER FIG. 6162 WITH SPACE FOR A MINIMUM OF 6 SPARE SPRINKLER HEADS PLUS SPRINKLER WRENCH FOR EACH TYPE, SUITABLE FOR WALL MOUNTING. FURNISH SIX (6) EXTRA SPRINKLER HEADS, WITH A MINIMUM OF (2) OF EACH TYPE. THIS SHALL ALSO INCLUDE ESCUTCHEONS.

- INSTALL SPRINKLER PIPING TO PROVIDE FOR SYSTEM DRAINAGE IN ACCORDANCE WITH NFPA 13.
- INSTALL SPRINKLER PIPING ACCORDING TO NFPA 13 VIBRATION ISOLATION AND SEISMIC RESTRAINTS.
- CONTRACTOR TO PAY FOR AND SUPPLY ALL DUMPSTERS FOR DEBRIS REMOVAL, COORDINATE AND OBTAIN APPROVAL FOR DUMPSTER LOCATIONS ON SITE AND DEBRIS REMOVAL ROUTES WITH THE CONSTRUCTION MANAGER.
- INSTALL NON-COMBUSTIBLE HOODS OR SHIELDS ABOVE IMPORTANT ELECTRICAL EQUIPMENT FOR PROTECTION FROM SPRINKLER DISCHARGE PER NFPA 13, 8.14.10.2.
- WHERE WORK BETWEEN THESE DRAWINGS AND ARCHITECTURAL PLANS ARE IN CONFLICT, ADVISE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION OF SPRINKLER WORK.
- ALL SPRINKLER DRAINS SHALL RUN TO SAFE LOCATIONS TO PREVENT OVERFLOW OF DRAINS.
- PORTABLE FIRE EXTINGUISHERS, IF REQUIRED (OF REQUIRED CLASS AND CAPACITY) ARE NOT PART OF THIS CONTRACT.
- ALL PIPING SYSTEMS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC AND EVERY ATTEMPT HAS BEEN MADE TO INDICATE OFFSETS AND PIPING ARRANGEMENTS TO SUIT ACTUAL INSTALLATION REQUIREMENTS. HOWEVER, SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE G.C. AND ALL OTHER TRADES WHEN LAYING OUT HIS WORK TO ENSURE CONFLICT AVOIDANCE.
- AS THE ACTUAL LIFE SPAN OF THE SPRINKLER SYSTEM IS DEPENDENT ON MANY VARIABLES, INCLUDING BUT NOT LIMITED TO WATER QUALITY AND ATMOSPHERIC CONDITIONS, THE ENGINEER ASSUMES NO LIABILITY OR RESPONSIBILITY OF THE LIFE SPAN OF THE SPRINKLER SYSTEM DUE TO MICRO-BIOLOGICALLY INFLUENCED CORROSION (MIC). THE SPRINKLER CONTRACTOR AND/OR THE GENERAL CONTRACTOR SHALL HAVE THE SPRINKLER SYSTEM TESTED AND TREATED (IF NECESSARY) FOR PROTECTION AGAINST MICRO-BIOLOGICALLY INFLUENCED CORROSION (MIC).
- INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, SPECIFICATIONS, CALCULATIONS, ETC. HAVE BEEN APPROVED BY DSA.
- EXTERIOR PROJECTIONS ARE COVERED IN METAL SHEETING. FOR THIS REASON SPRINKLER PROTECTION HAS BEEN OMITTED IN ACCORDANCE WITH NFPA 13.
- THE INSTALLING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, CALCULATIONS, AND TECHNICAL SUBMITTALS FOR REVIEW PRIOR TO INSTALLATION.
- QUICK RESPONSE REMOTE AREA REDUCTION HAS BEEN UTILIZED WHERE PERMITTED IN ACCORDANCE WITH NFPA 13 CHAPTER 11 REQUIREMENTS.

EDUCATIONAL OCCUPANCY DESIGN CRITERIA

- LIGHT HAZARD OCCUPANCY (CLASSROOMS, OFFICES, *AUDITORIUMS, COMMON CORRIDORS, LIBRARY READING AREAS WITHOUT HIGH STACKS)- DENSITY .10 GPM PER SQUARE FOOT OVER THE MOST HYDRAULICALLY REMOTE 1500 SQUARE FEET MAXIMUM COVERAGE PER SPRINKLER HEAD 225 SQUARE FEET.
- ORDINARY HAZARD GP-1 OCCUPANCY (KITCHENS, MULTI-PURPOSE ROOMS, LARGE STORAGE AREAS, STAGES [AS DEFINED IN 2016 CBC 410.2])- DENSITY .15 GPM PER SQUARE FOOT OVER THE MOST HYDRAULICALLY REMOTE 1500 SQUARE FEET MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQUARE FEET.
- ORDINARY HAZARD GP-2 OCCUPANCY (SCIENCE LABS, VOCATIONAL SHOPS, STAGES 1,000SQFT IN AREA OR >50'-0 IN HEIGHT, LIBRARY READING AREAS WITH HIGH STACKS)- DENSITY .20 GPM PER SQUARE FOOT OVER THE MOST HYDRAULICALLY REMOTE 1500 SQUARE FEET MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQUARE FEET.
- NFPA 13, A.5.1, A.5.3.1, A.5.3.2 *IF ALSO FUNCTIONS AS MULTI-PURPOSE ROOM, USE ORDINARY HAZARD GROUP 1
- MINIMUM PRESSURE AT SPRINKLER HEAD 7 PSI.
- DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN THAT REQUIRED IN NFPA 13 2016 EDITION.

SPRINKLER SCHEDULE						
SYMBOL	MANUFACTURER	MODEL	ORIFICE	K-FACTOR	TEMPERATURE	FINISH
○	VICTAULIC	V2704	1/2"	5.6K	200	UPRIGHT BRASS
●	VICTAULIC	V3802	1/2"	5.6K	155	CONCEALED WHITE
-	VICTAULIC	V2710	1/2"	5.6K	200	SEMI-FLUSH WHITE
⊗	VICTAULIC	V3605	1/2"	5.6K	286	DRY PENDENT CHROME

PIPING SYSTEM SCHEDULE			
PRODUCT	MANUFACTURER	SCHEDULE	MATERIAL TYPE
MAINS	WHEATLAND OR EQUAL	SCH 10	STEEL
BRANCHLINES > 1"	WHEATLAND OR EQUAL	SCH 10	STEEL
BRANCHLINES 1" & LESS	WHEATLAND OR EQUAL	SCH 40	STEEL
GROOVED FITTINGS	VICTAULIC OR EQUAL	175 PSI	DUCTILE IRON
THREADED FITTINGS	ANVIL OR EQUAL	175 PSI	DUCTILE IRON

FIRE PROTECTION ABBREVIATIONS

A.D.	ACCESS DOOR
A.F.F.	ABOVE FINISHED FLOOR
ALP.	ALARM PANEL
A.P.	ACCESS PANEL
B.F.F.	BELOW FINISHED FLOOR
B.F.P.	BACKFLOW PREVENTOR
C.P.	CONTROL PANEL
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
ELEV	ELEVATION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE VALVE CONNECTION (2-1/2")
FHV	FIRE HOSE VALVE
FLR	FLOOR
FS	FLOW SWITCH NORMALLY CLOSED N.C.
N.I.C	NOT TO SCALE
N.T.S.	NOT IN CONTRACT
OS&Y	OUTSIDE STEM AND YOKE GATE VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
TS	TAMPER SWITCH
TYP.	TYPICAL THROUGHOUT
PIV	POST INDICATOR VALVE

DSA File No.:

DSA Application No.:

Agency Approval

General Notes

McKinley / Fowler Elementary School - Inc. 2
Clovis Unified School District
Fresno, CA 93727

TYPICAL INFORMATION
GENERAL INFORMATION

No.	Revision/Submission	Date

Revision			
	Designed Designer	Copyright	Darden Architects
Scale:	1/4" = 1'-0"	Drawn By:	Author
Project Number:	2116	Checked I/Checker	X/F001
Date:	09/20/2022	Review/Approver	

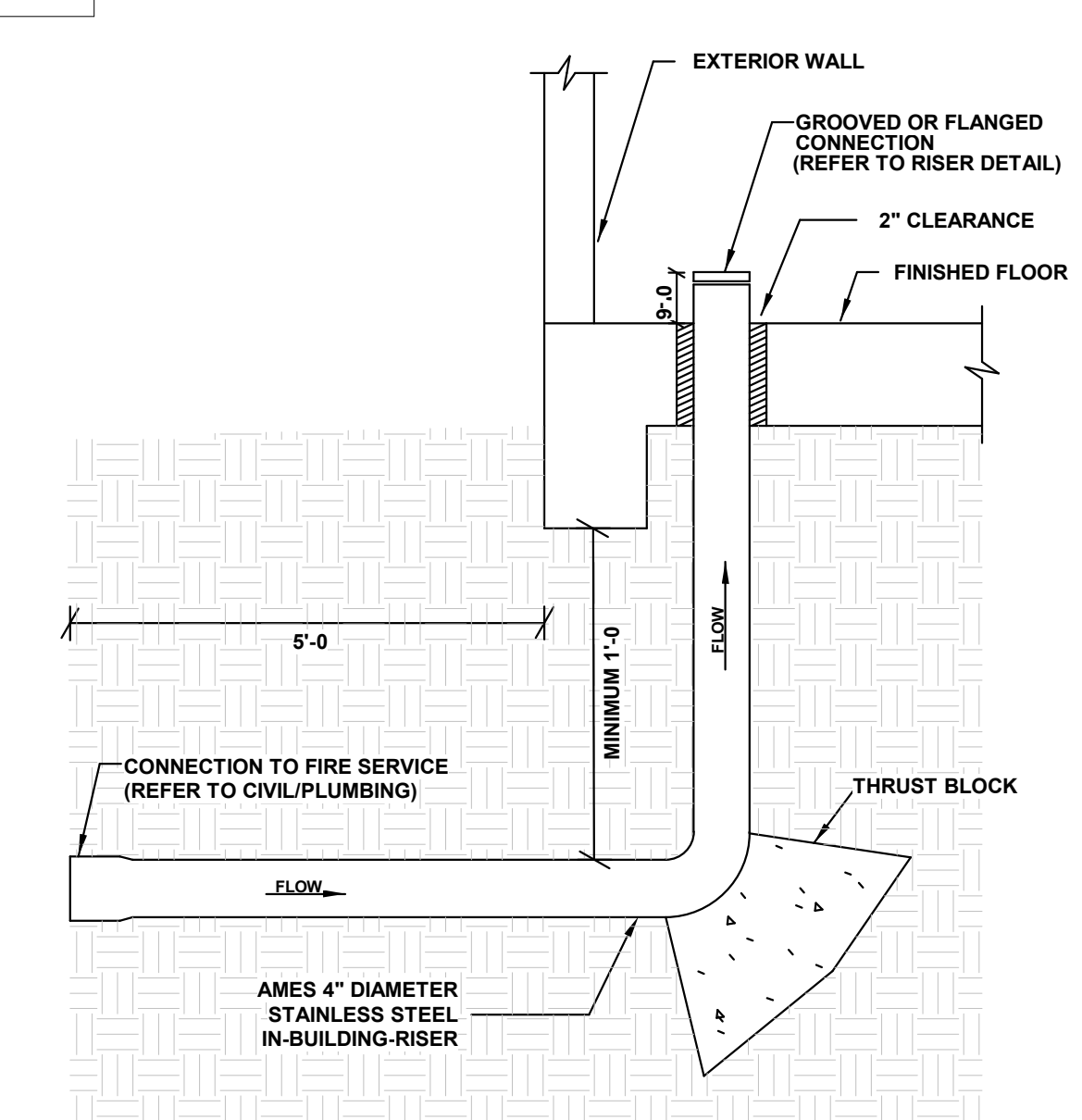
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- POINT OF CONNECTION 1'-0" AFF - 8" FLEXIBLE COUPLING
- 2" MAIN DRAIN PIPING - THREADED BLACK STEEL SCHEDULE 40
- 8" RISER PIPING - GROOVED BLACK STEEL SCHEDULE 10
- VICTAULIC 705W SUPERVISED CONTROL VALVE - GROOVED
- 2" TEST AND DRAIN
- VICTAULIC UMC UNIVERSAL MANIFOLD RISER
- 8" x 6" GROOVED CONCENTRIC REDUCER
- 8" GROOVED FLEXIBLE COUPLING
- SPARE SPRINKLER BOX - MOUNTED ON EAST WALL OF ROOM 114 - SHALL CONTAIN (6) SPARE SPRINKLERS (3) OF EACH TYPE AND COMPATIBLE WRENCHES
- 8" RISER TO SYSTEM - GROOVED BLACK STEEL SCHEDULE 10
- 4-WAY SWAY BRACE - ATTACHED TO WALL STRUCTURE - REFER TO 4-WAY SWAY BRACE DETAIL
- 8" GROOVED FLEXIBLE COUPLING
- 8" GROOVED 90° ELBOW/TEE (BLDG'S D/E TEE, BLDG F ELBOW)
- 6" GROOVED RIGID COUPLING
- 8" CROSS MAIN TO SYSTEM
- 0-300 PSI GAUGE - 1/4" NPS
- 1/4" NPS GAUGE ISOLATION VALVE
- 8" VANE TYPE WATERFLOW SWITCH
- 2" MAIN DRAIN DISCHARGE TO EXTERIOR - TO TERMINATE VIA 1/2" OUTLET AND 1/2" SMOOTH TEST OUTLET (BROKEN SPRINKLER) (NOT GRAPHICALLY SHOWN FOR CLARITY)
- 24V ELECTRIC WATERFLOW BELL TO BE INSTALLED ON EXTERIOR WALL
- HYDRAULIC PLACARD AND GENERAL INFORMATION SIGN PER NFPA 13 25.5 & 25.6

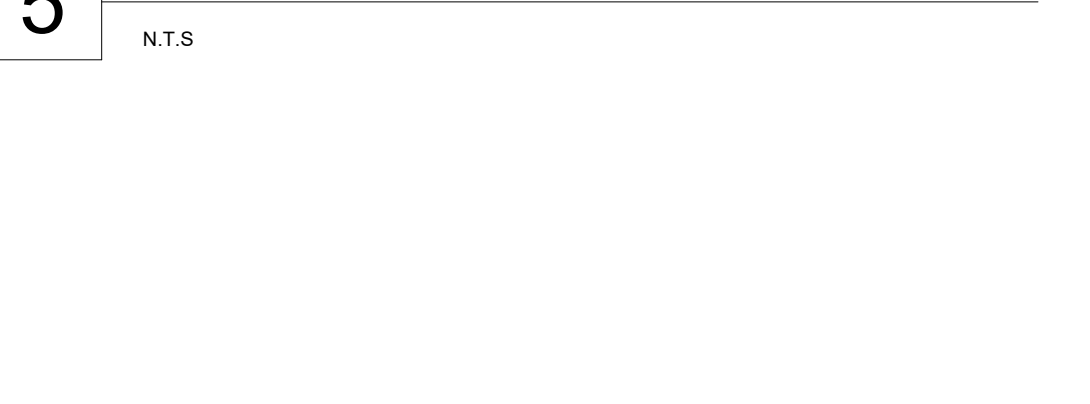
3 SYSTEM RISER KEY NOTES

- N.T.S.
- WET SYSTEM RISER SHALL BE A 8" VICTAULIC UMC RISER CONTROL ASSEMBLY WITH 705W SUPERVISED CONTROL VALVE.
 - FDC IS A REMOTE FREE STANDING FDC. REFER TO CIVIL PLANS FOR INSTALLATION LOCATION.
 - SUPERVISED CONTROL VALVES AND VANE STYLE WATERFLOW SWITCH SHALL ALL BE SUPERVISED BY THE BASE BUILDING FIRE ALARM SYSTEM
 - A 24V ALARM BELL SHALL BE INSTALLED ON THE EXTERIOR WALL OF THE RISER LOCATION
 - SYSTEM INSPECTOR'S TEST AND DRAIN IS ATTACHED TO THE RISER AND SHALL BE PIPED TO THE EXTERIOR OF THE BUILDING VIA A 2" MAIN DRAIN. THIS SHALL TERMINATE OVER A SPLASH BLOCK WITH A 1/2" OUTLET COMPLETED WITH A 1/2" SMOOTH OUTLET (BROKEN SPRINKLER).

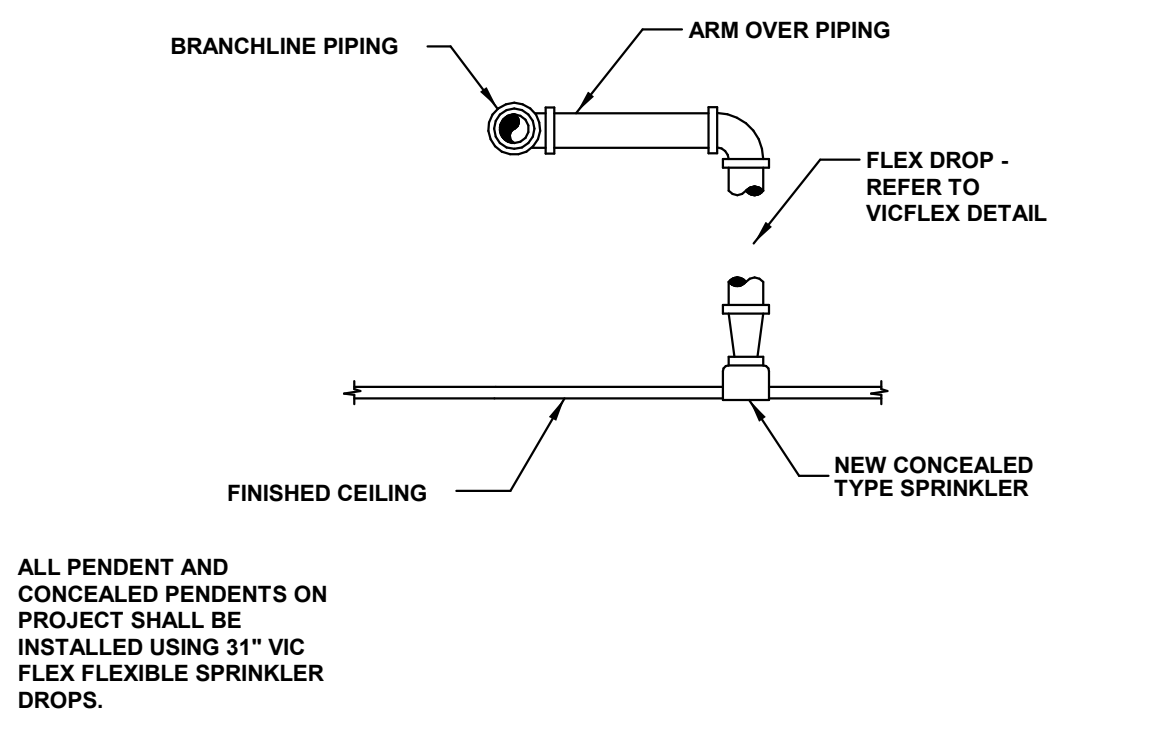
4 RISER NOTES



5 AMES STAINLESS STEEL IN-BUILDING RISER

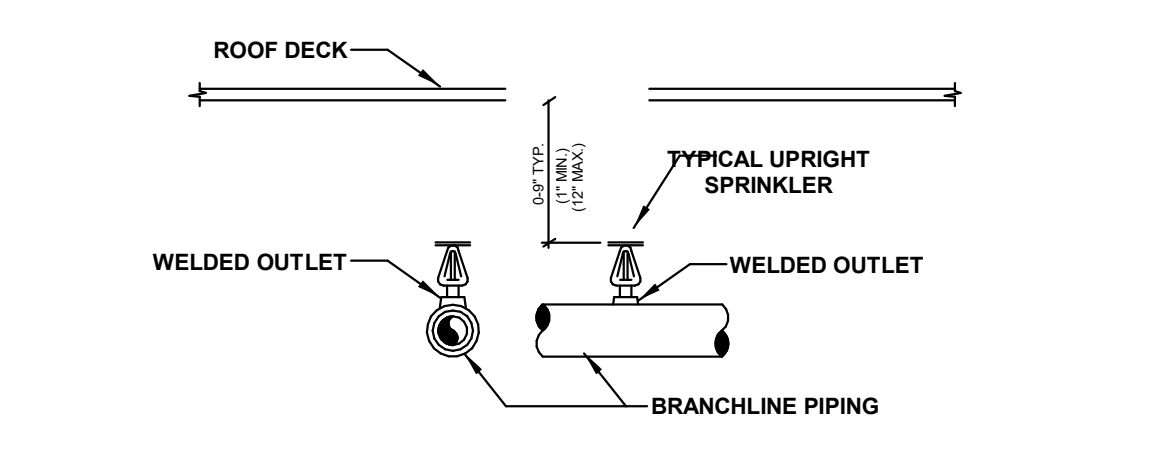


TYPICAL SLEEVE PENETRATION INSTALLATION DETAIL AND REQUIREMENTS



TYPICAL PENDANT SPRINKLER HEAD INSTALLATION DETAIL

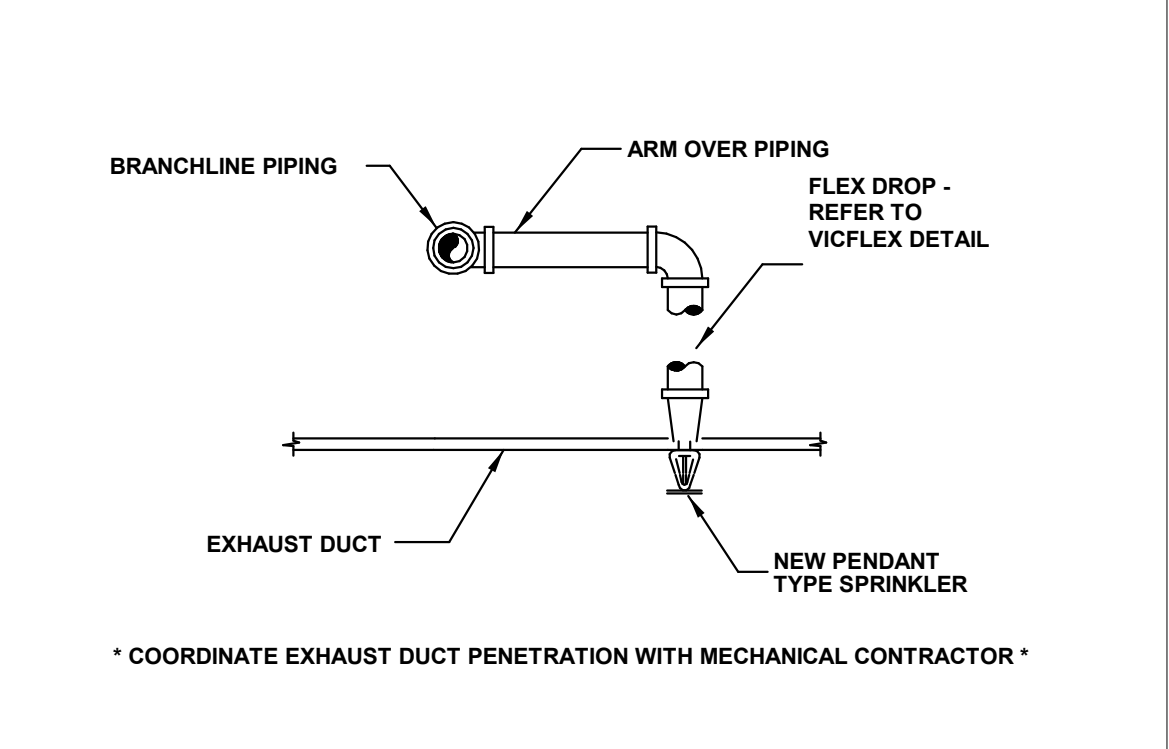
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UPRIGHT SPRINKLER ON BRANCHLINE DETAIL

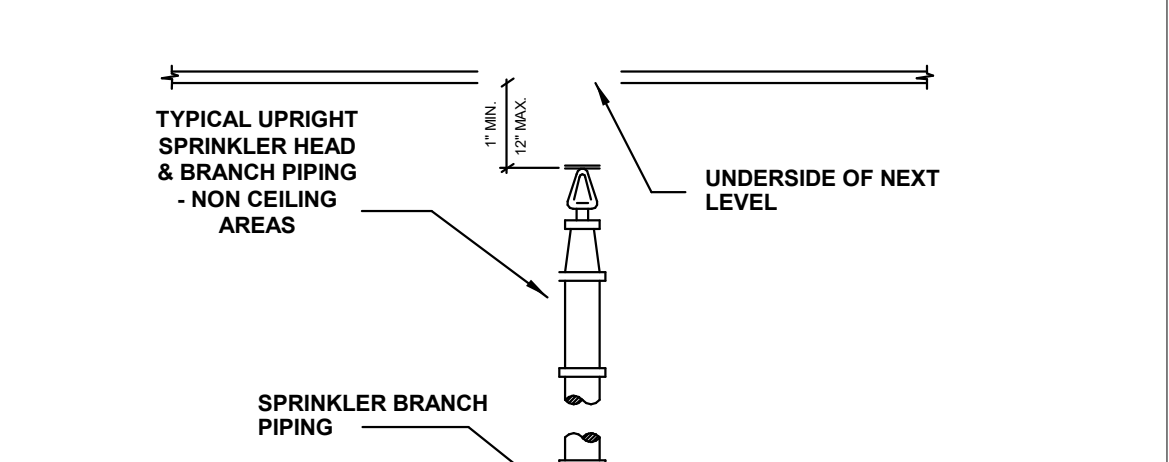
N.T.S.

NOTE:
NFPA 13 2016 EDITION 8.6.4.2
8.6.4.2.1 UNLESS THE REQUIREMENTS OF 8.6.4.2.2 OR 8.6.4.2.3 ARE MET, DEFLECTORS OF SPRINKLERS SHALL BE ALIGNED PARALLEL TO CEILINGS, ROOFS, HIPS, OR THE INCLINE OF STAIRS.
8.6.4.2.2 WHERE SPRINKLERS ARE INSTALLED IN THE PEAK BELOW A SLOPED CEILING OR ROOF SURFACE, THE SPRINKLER SHALL BE INSTALLED WITH THE DEFLECTOR HORIZONTAL.
8.6.4.2.3 ROOFS HAVING A PITCH NOT EXCEEDING 2 IN 12 (16.7 PERCENT) ARE CONSIDERED HORIZONTAL IN THE APPLICATION OF 8.6.4.2, AND SPRINKLERS SHALL BE PERMITTED TO BE INSTALLED WITH DEFLECTORS HORIZONTAL.



TYPICAL EXHAUST DUCT PENDANT SPRINKLER INSTALLATION DETAIL

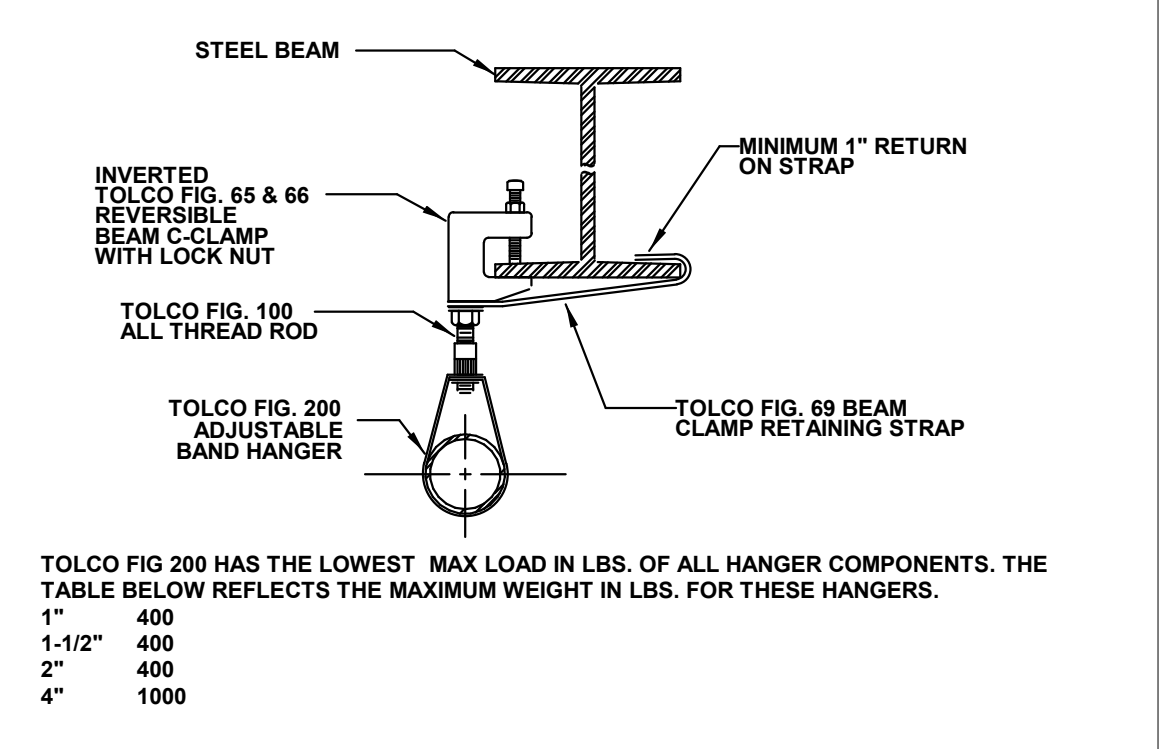
N.T.S.



TYPICAL UPRIGHT SPRINKLER INSTALLATION DETAIL

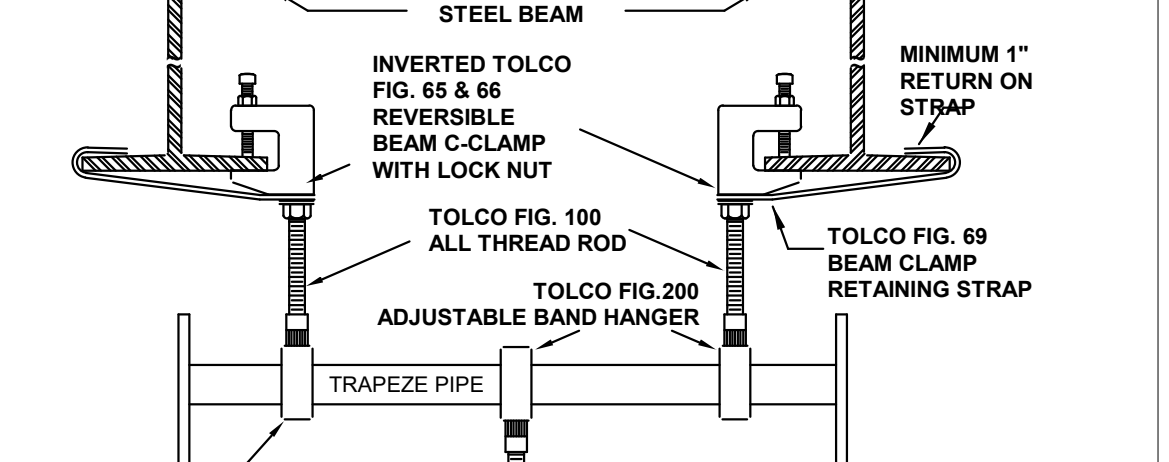
N.T.S.

NOTE:
NFPA 13 2016 EDITION 8.6.4.2
8.6.4.2.1 UNLESS THE REQUIREMENTS OF 8.6.4.2.2 OR 8.6.4.2.3 ARE MET, DEFLECTORS OF SPRINKLERS SHALL BE ALIGNED PARALLEL TO CEILINGS, ROOFS, HIPS, OR THE INCLINE OF STAIRS.
8.6.4.2.2 WHERE SPRINKLERS ARE INSTALLED IN THE PEAK BELOW A SLOPED CEILING OR ROOF SURFACE, THE SPRINKLER SHALL BE INSTALLED WITH THE DEFLECTOR HORIZONTAL.
8.6.4.2.3 ROOFS HAVING A PITCH NOT EXCEEDING 2 IN 12 (16.7 PERCENT) ARE CONSIDERED HORIZONTAL IN THE APPLICATION OF 8.6.4.2, AND SPRINKLERS SHALL BE PERMITTED TO BE INSTALLED WITH DEFLECTORS HORIZONTAL.



REVERSIBLE BEAM C-CLAMP WITH RETAINING STRAP (BEAM)

N.T.S.



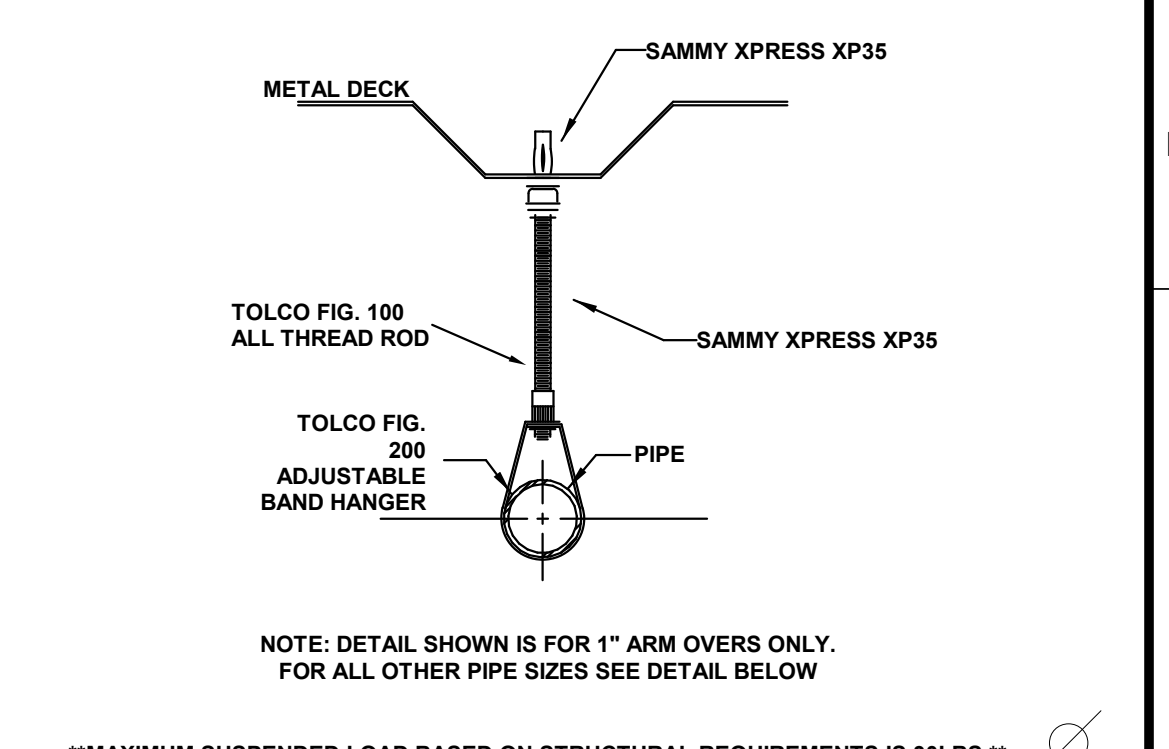
REVERSIBLE BEAM C-CLAMP WITH PIPE TRAPEZE HANGER

N.T.S.

TOLCO FIG 200 HAS THE LOWEST MAX LOAD IN LBS. OF ALL HANGER COMPONENTS. THE TABLE BELOW REFLECTS THE MAXIMUM WEIGHT IN LBS. FOR THESE HANGERS.

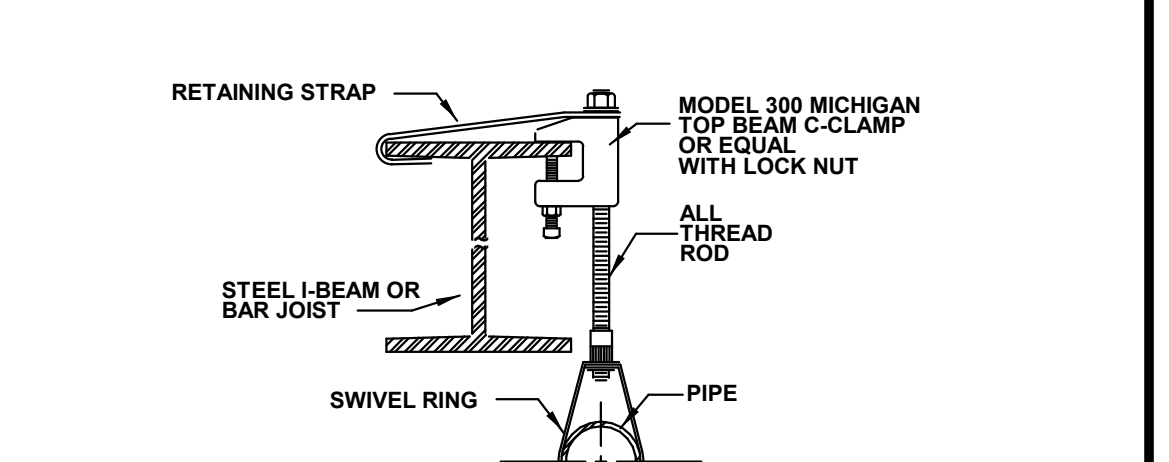
1"	400
1-1/2"	400
2"	400
4"	1000

TRAPEZE LENGTHS:
TRAPEZE SYMBOL:
• 4" SCH 16 AT 6'-0"
• 4" SCH 18 AT 6'-0"
• MINIMUM TRAPEZE PIPE IS 2" SCH 40



SAMMY X-PRESS XP35 - 1-1/2" AND GREATER

N.T.S.

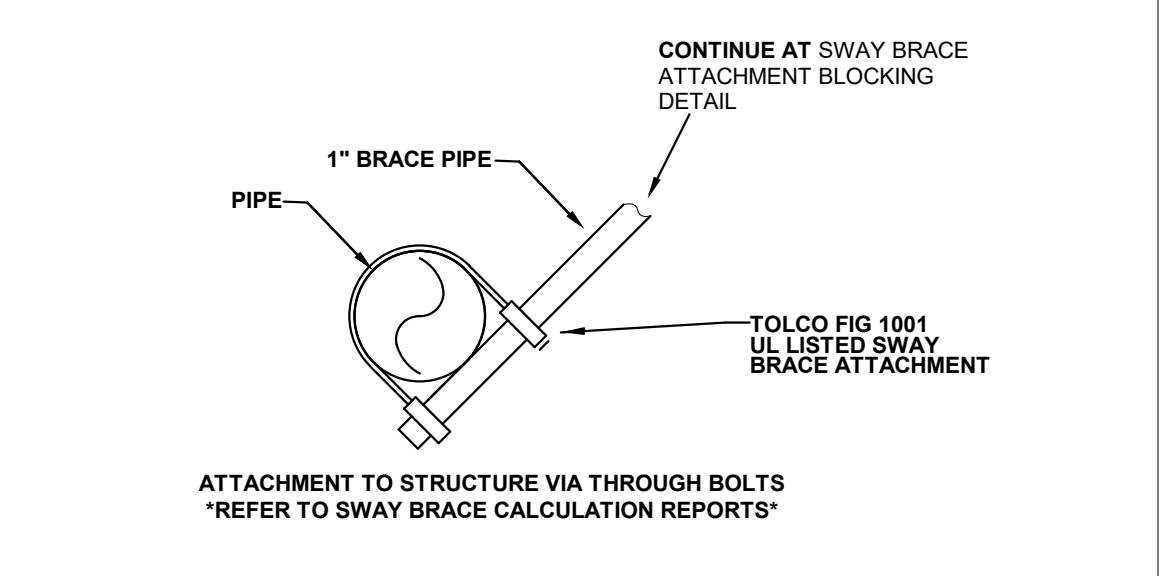


TOP BEAM C-CLAMP WITH RETAINING STRAP (BEAM)

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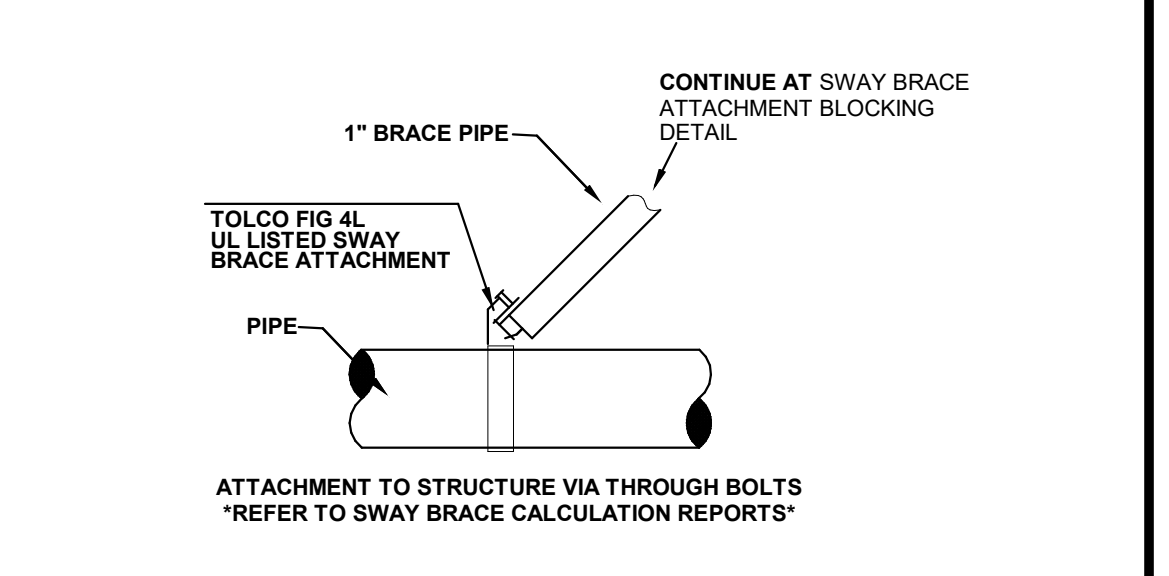
TOLCO FIG 200 HAS THE LOWEST MAX LOAD IN LBS. OF ALL HANGER COMPONENTS. THE TABLE BELOW REFLECTS THE MAXIMUM WEIGHT IN LBS. FOR THESE HANGERS.

1"	400
1-1/2"	400
2"	400
4"	1000



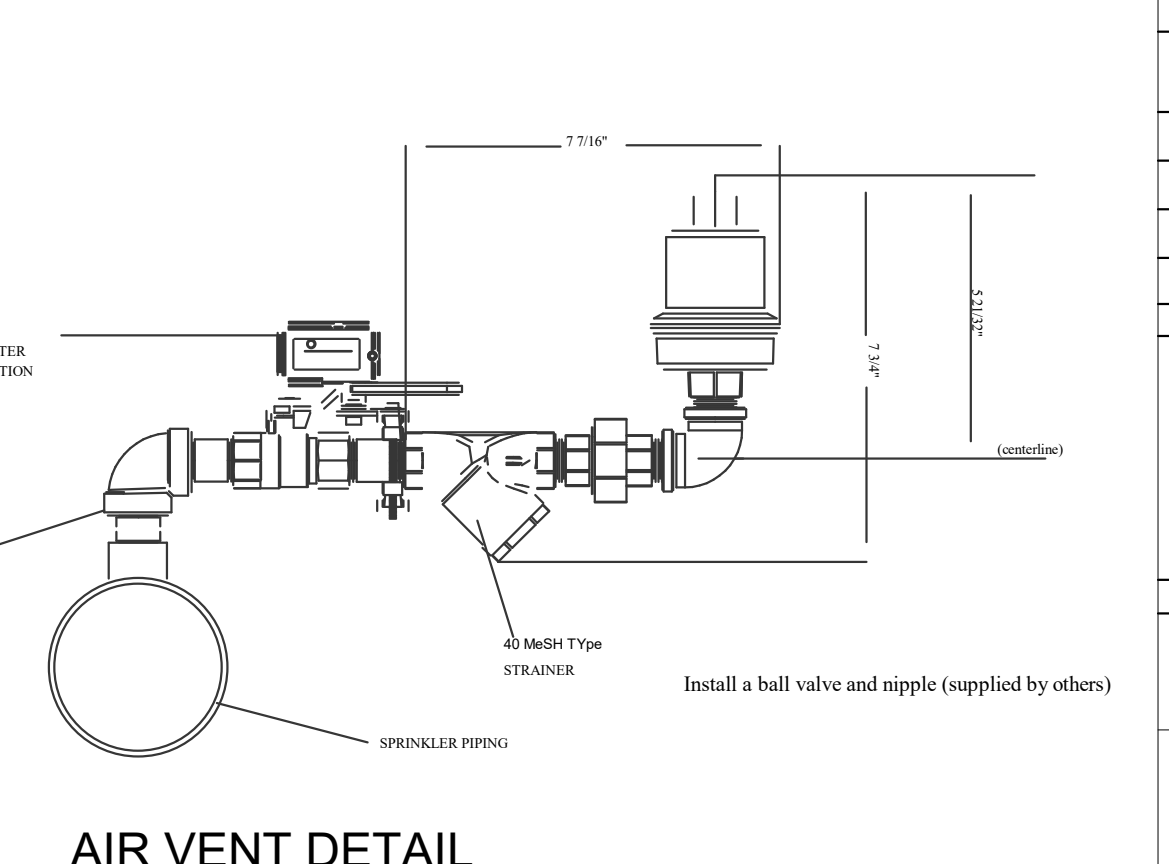
LATERAL SWAY BRACE ATTACHMENT

N.T.S.



LONGITUDINAL SWAY BRACE ATTACHMENT

N.T.S.



AIR VENT DETAIL

N.T.S.

TABLE 9.2.2.1(a) MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN.)

NOMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
STEEL PIPE	N/A	12-0"	12-0"	15-0"	15-0"	15-0"	15-0"	15-0"	15-0"	15-0"
THREADED	N/A	12-0"	12-0"	12-0"	12-0"	12-0"	12-0"	N/A	N/A	N/A
LONGITUDINAL	N/A	12-0"	12-0"	12-0"	12-0"	12-0"	12-0"	N/A	N/A	N/A
COPPER TUBE	8-0"	8-0"	10-0"	12-0"	12-0"	12-0"	12-0"	N/A	N/A	N/A
CPVC	5-6"	6-0"	6-6"	7-0"	8-0"	9-0"	9-0"	N/A	N/A	N/A

FIGURE A.9.2.3.2.2 DISTANCE FROM SPRINKLER TO HANGER

TABLE 9.1.2.1 HANGER ROD SIZE

PIPE SIZE UP TO AND INCLUDING 4"	DIAMETER OF ROD	PIPE SIZE	DIAMETER OF ROD
3/8"	3/8"	6" AND 8"	1/2"

NFPA HANGER SPACING TABLE

N.T.S.

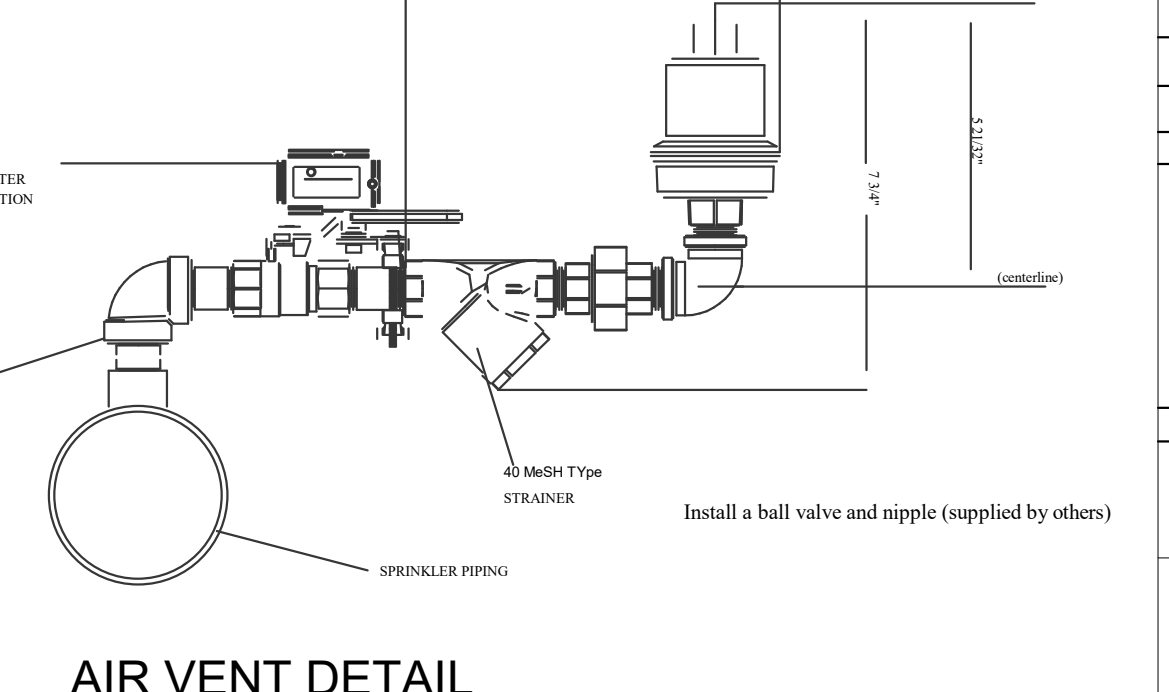
Install a ball valve in line with the PAV to assist in servicing the strainer without disabling the sprinkler system.

- Read and understand the instructions provided before you proceed with installation. The PAV shall be installed in accordance with local ordinances and the applicable NFPA13, NFPA13D, or NFPA13R standard.
- The Engineer of Record should select the Model PAV, Potter Air Vent installation location. Usually at a point in the system that will vent the most air. Refer to piping plans for location.
- The location of the PAV must not interfere with the spray pattern of any sprinkler head. The connection point must be off the top of the pipe. (See Fig. 1)
- The piping must be level or pitch back toward the fire sprinkler system and arranged in such a manner that water will not become trapped. The outlet of the PAV contains a 1/2" male NPT threaded connection allowing the device to be piped to a drain or other suitable location if there are concerns about inadvertent water discharge.
- Immediately after installation and filling of the fire sprinkler system, the PAV should be inspected for leaks and proper operation. The unit should be inspected periodically. Thereafter the manufacturer recommends quarterly or more frequently.
- Inspection should include removal and cleaning of the strainer screen. Remove the screen and flush with clean water. Use a wire brush if necessary to remove any particles trapped in the screen.

PAV and Shutoff Valve Replacement
The vent used in the PAV is not field replaceable. If the vent should fail, the entire unit must be replaced.

PAV Outline Drawing

Fig 1



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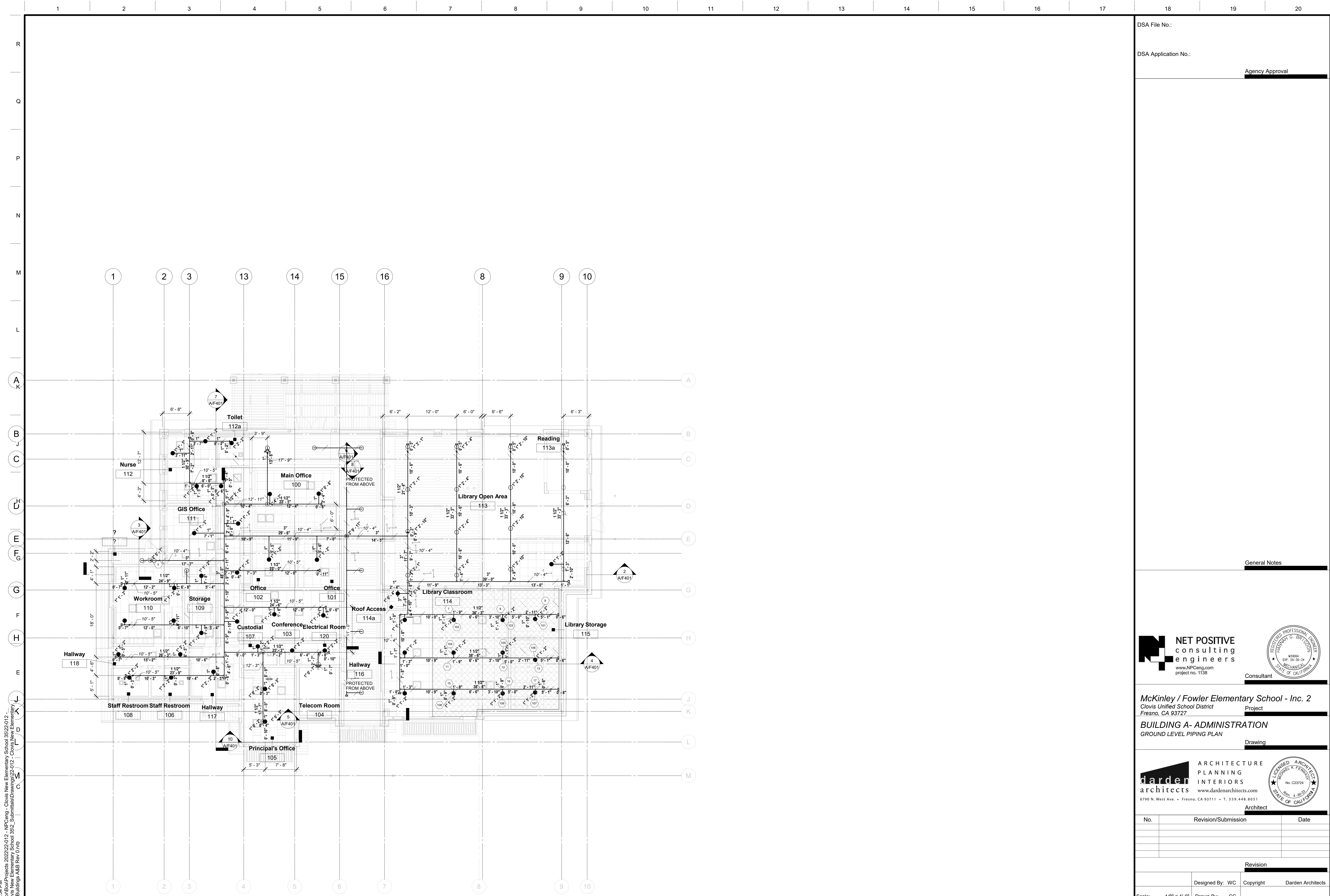
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1 FIRE PROTECTION - BLDG A GROUND LEVEL PIPING PLAN

1/8" = 1'-0"

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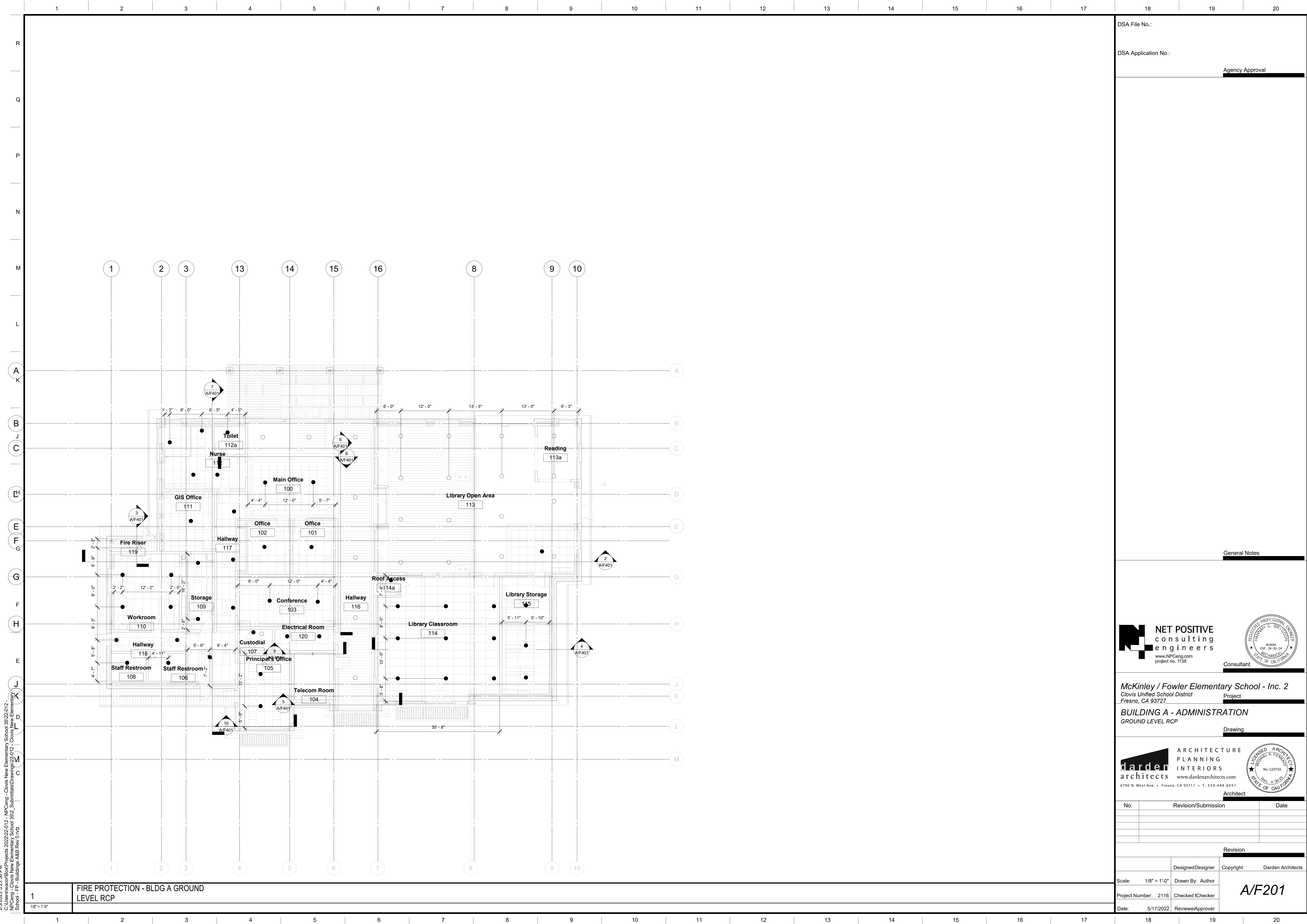
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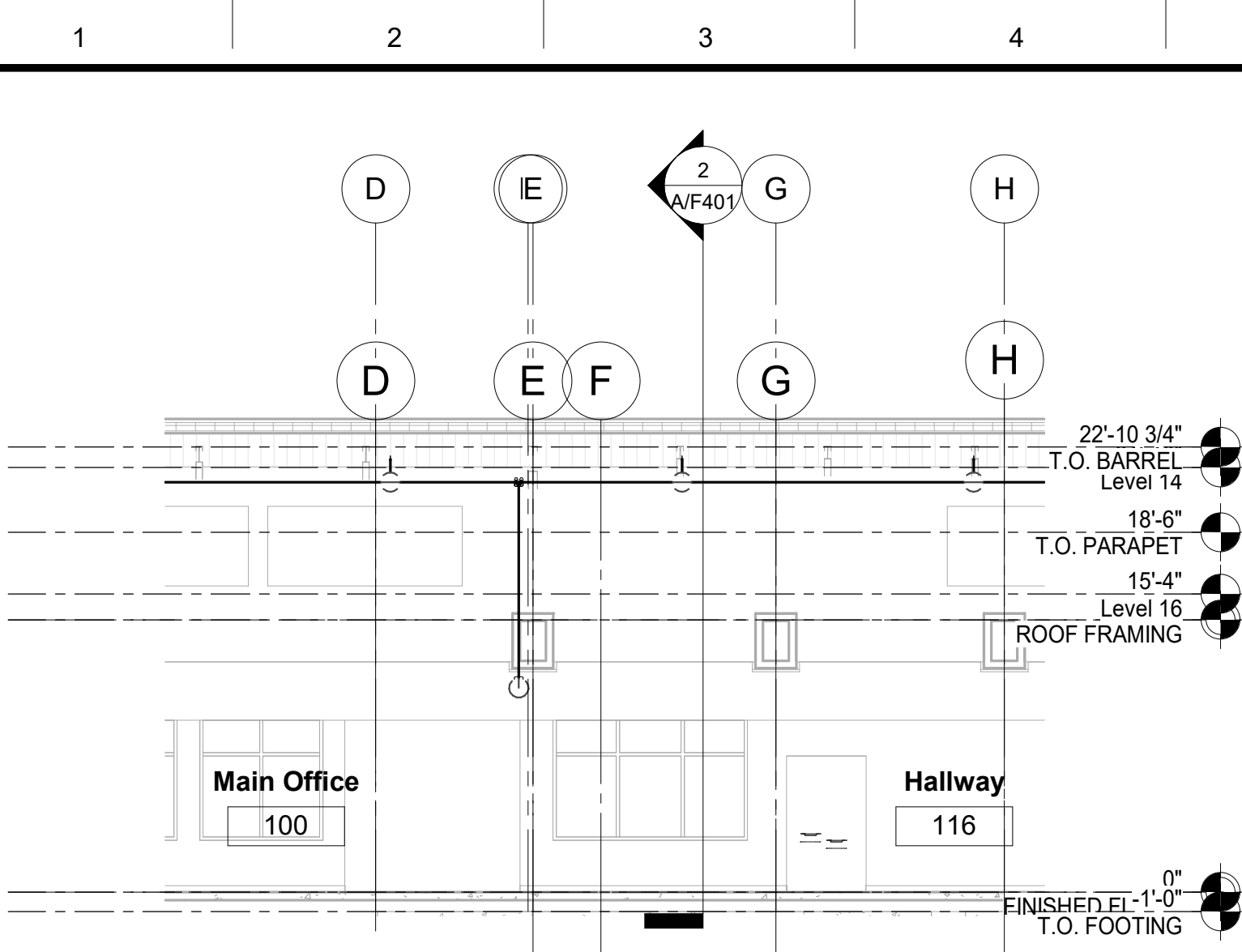
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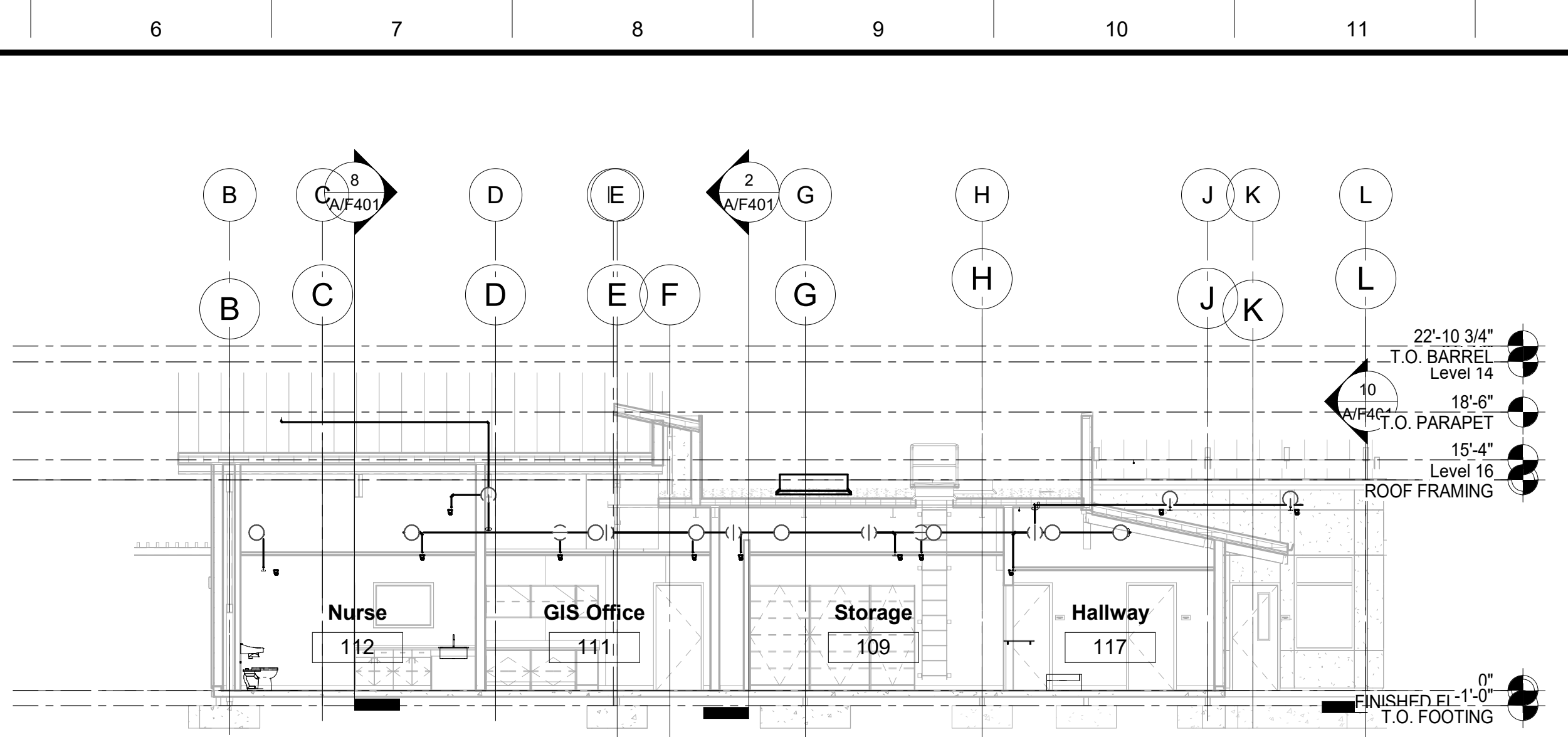
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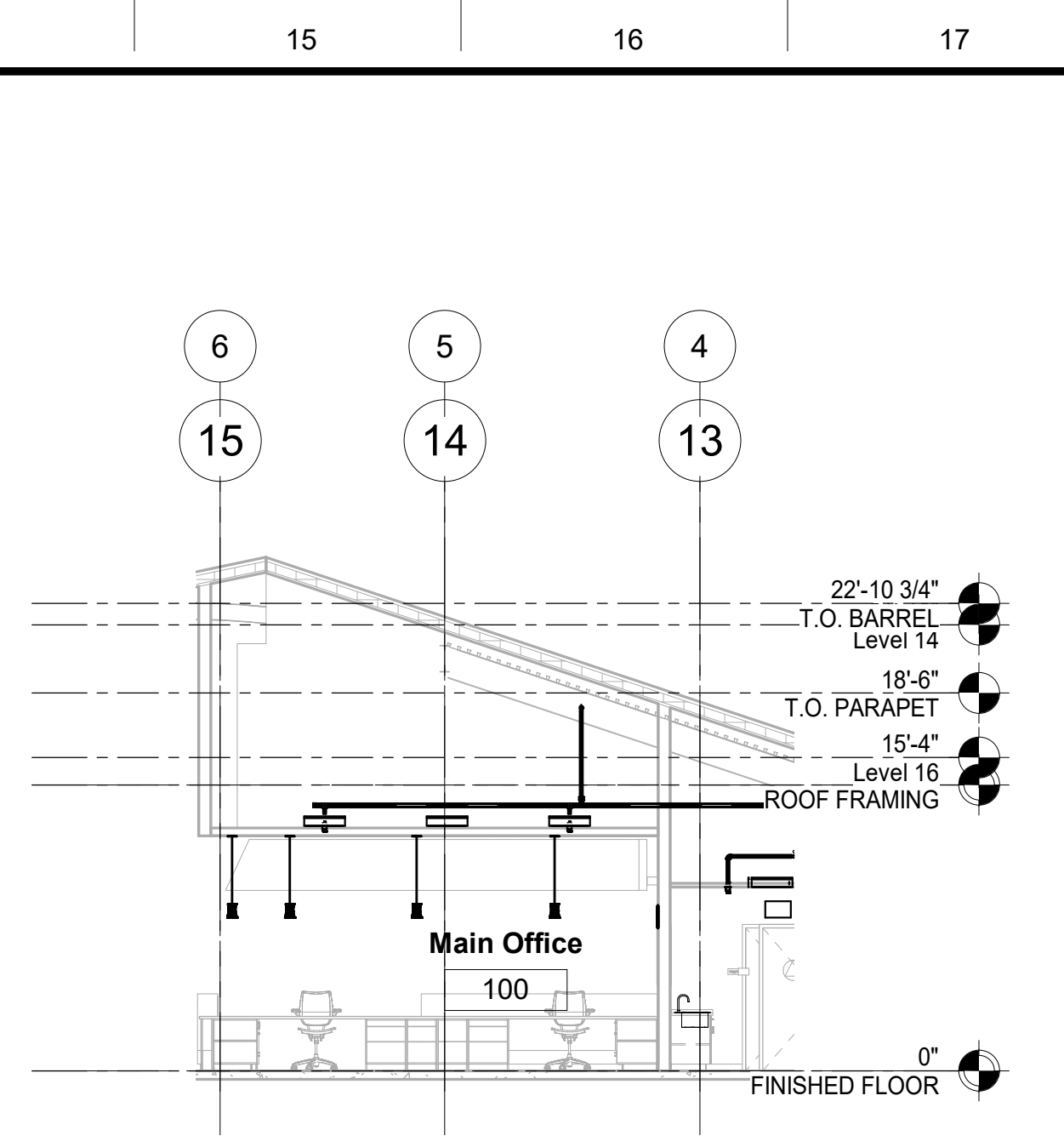
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 LEVEL RCP
 1/8" = 1'-0"



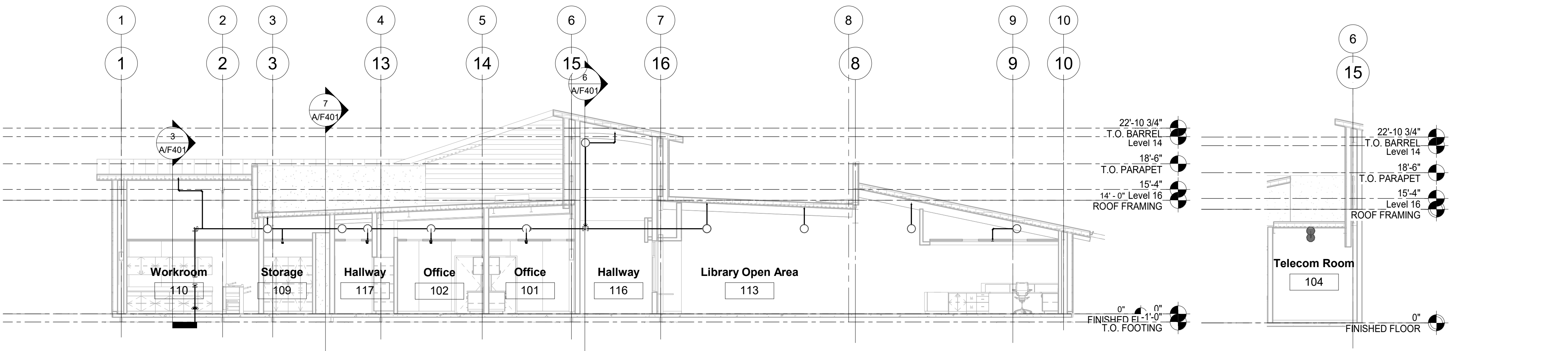
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1/8" = 1'-0"



7 BUILDING A - WEST SECTION
1/8" = 1'-0"

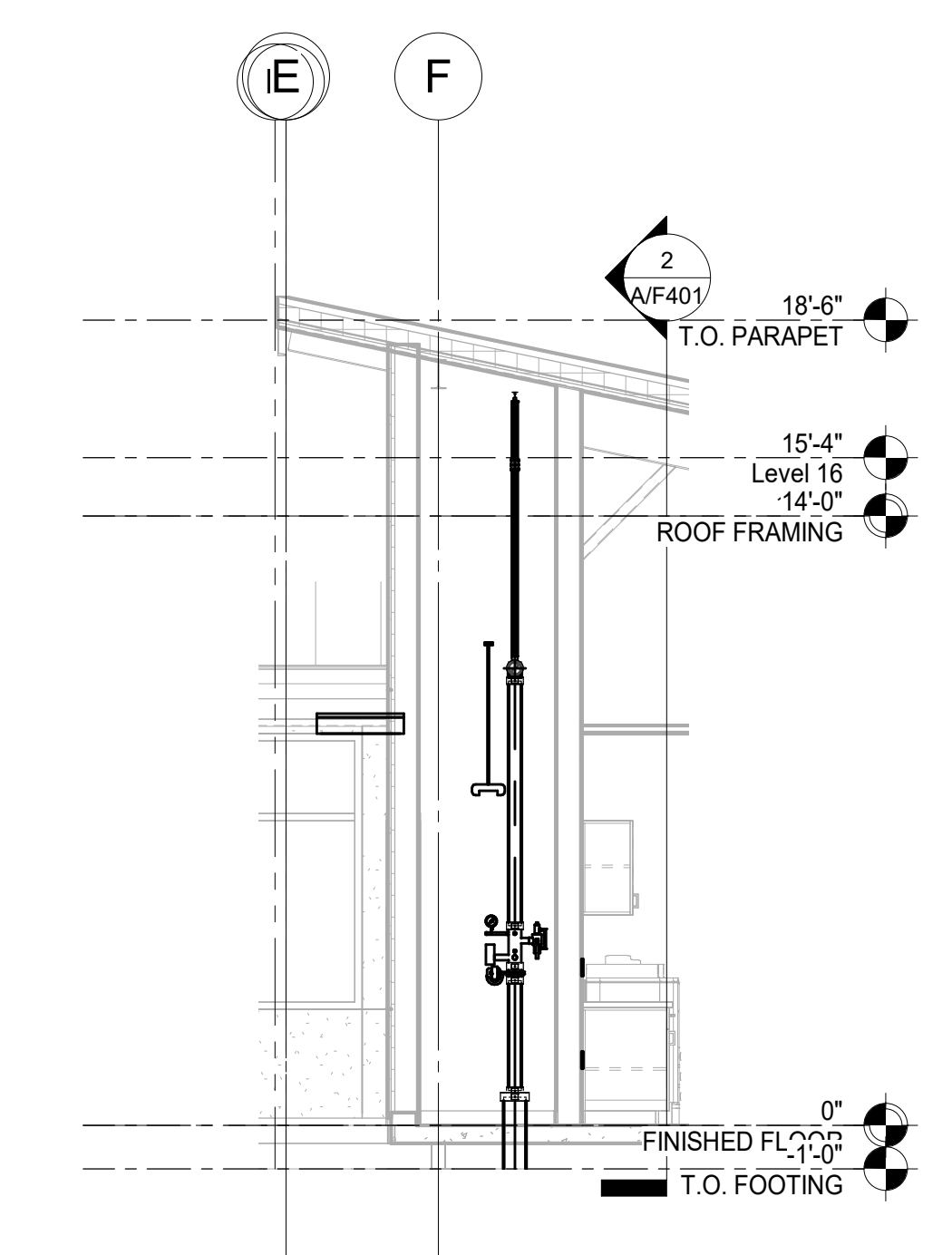


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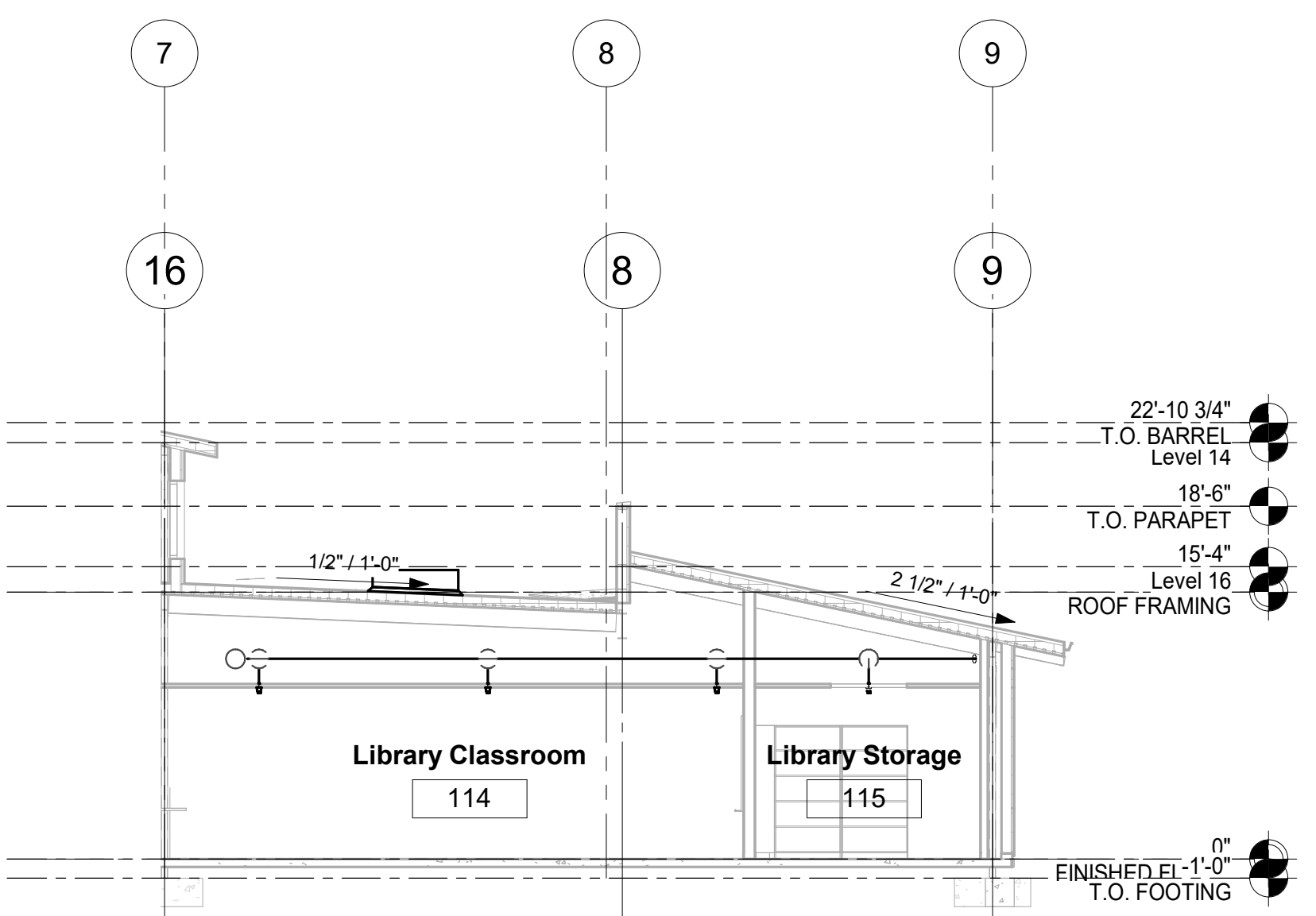


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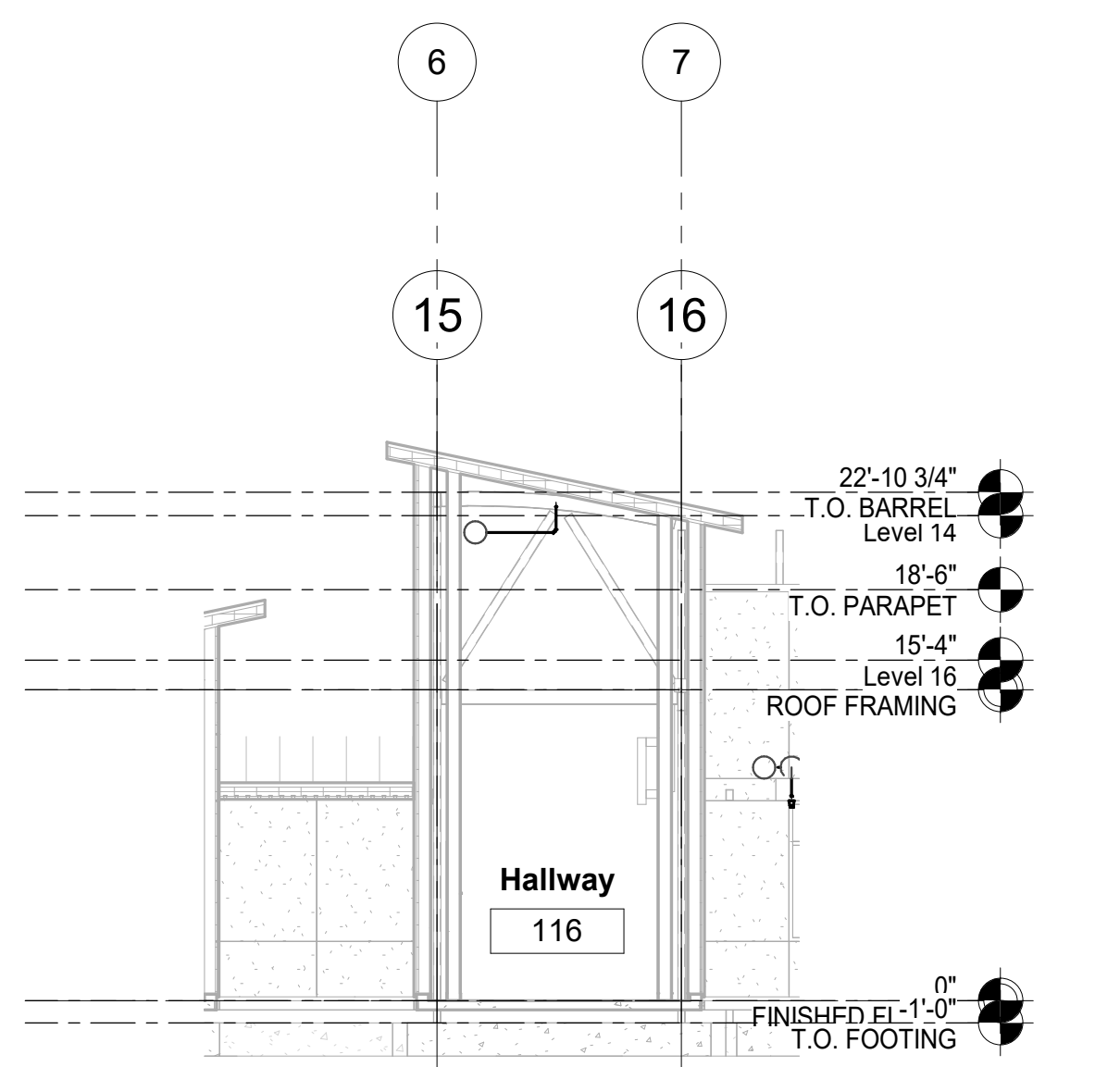
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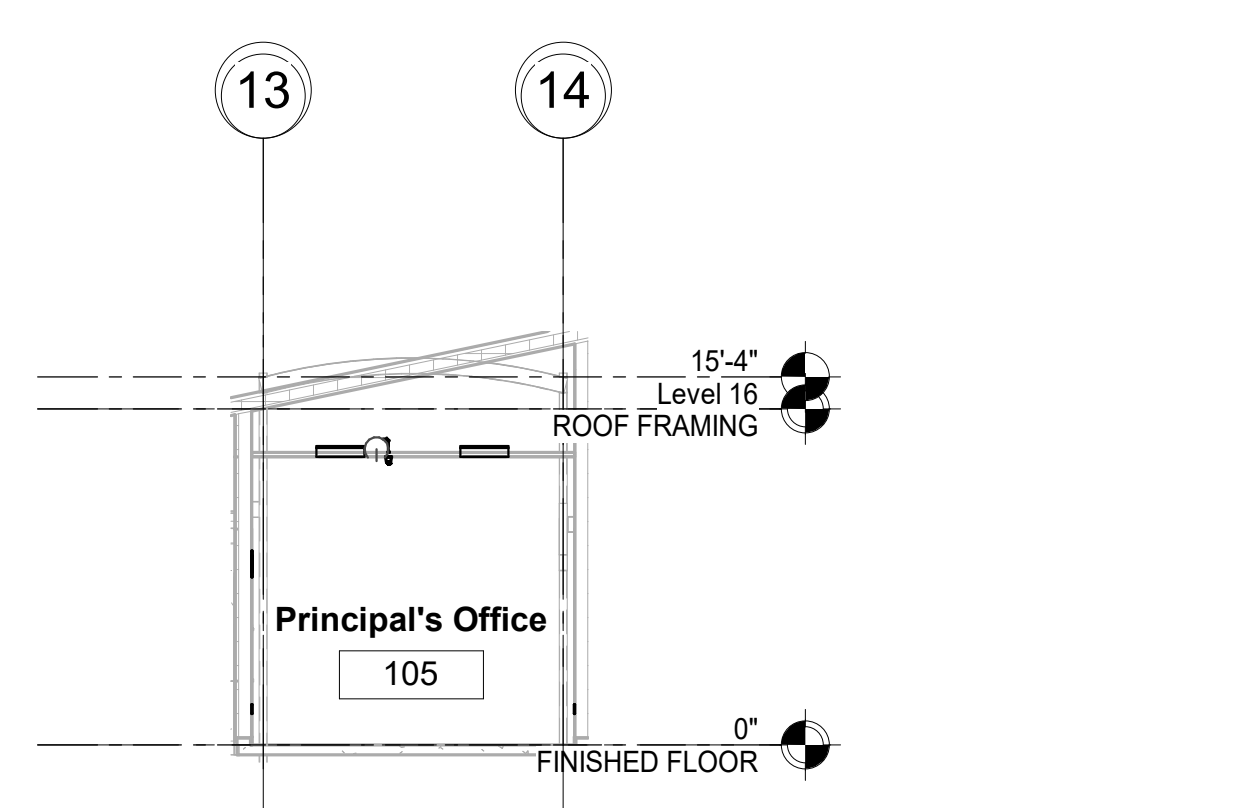
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1/4" = 1'-0"



4 BUILDING A - SOUTH CLASSROOM SECTION
1/8" = 1'-0"



5 BUILDING A - SOUTH HALLWAY SECTION
1/8" = 1'-0"



10 BUILDING A - PRINCIPALS OFFICE
1/8" = 1'-0"

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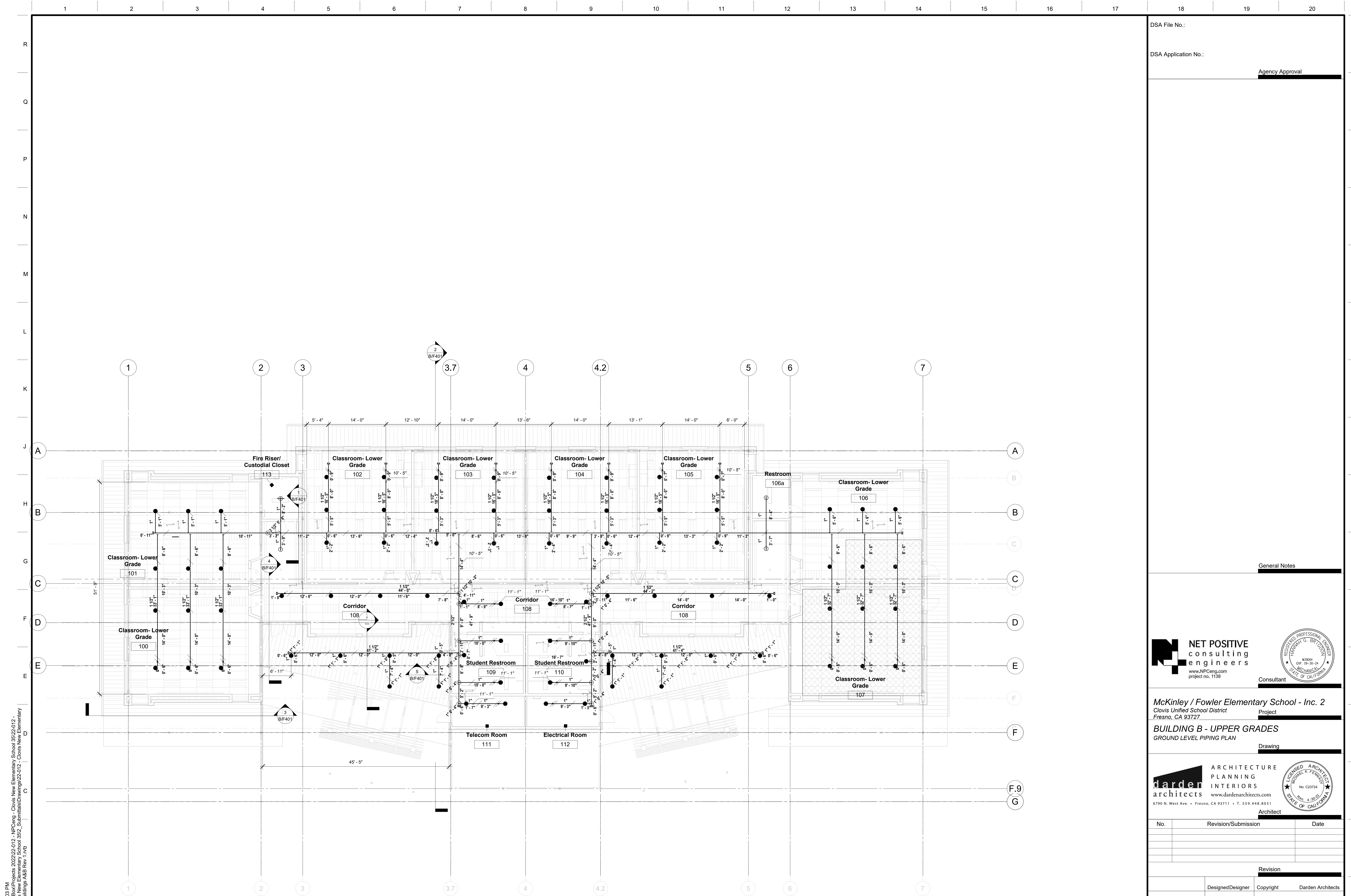
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BUILDING B - UPPER GRADES
 GROUND LEVEL PIPING PLAN
 Drawing

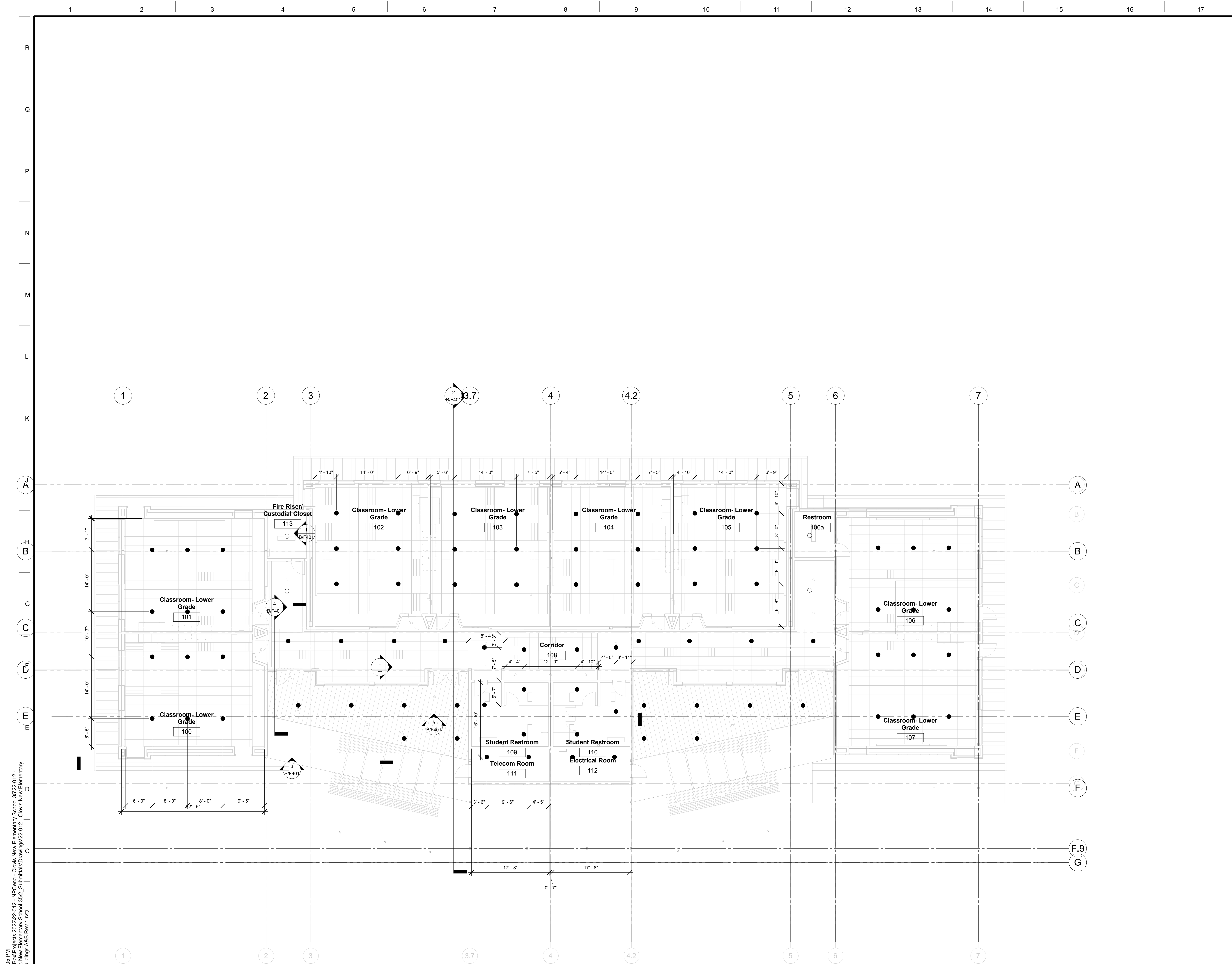
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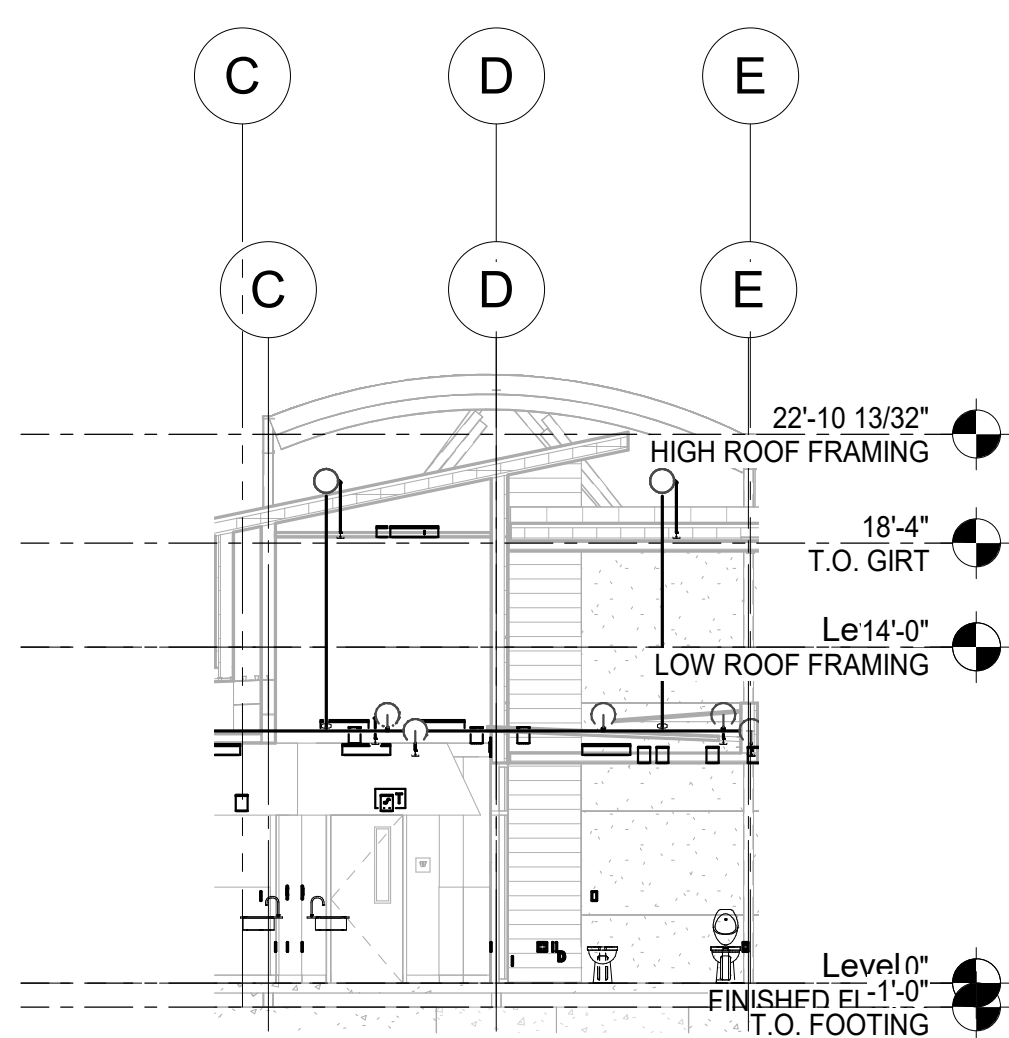
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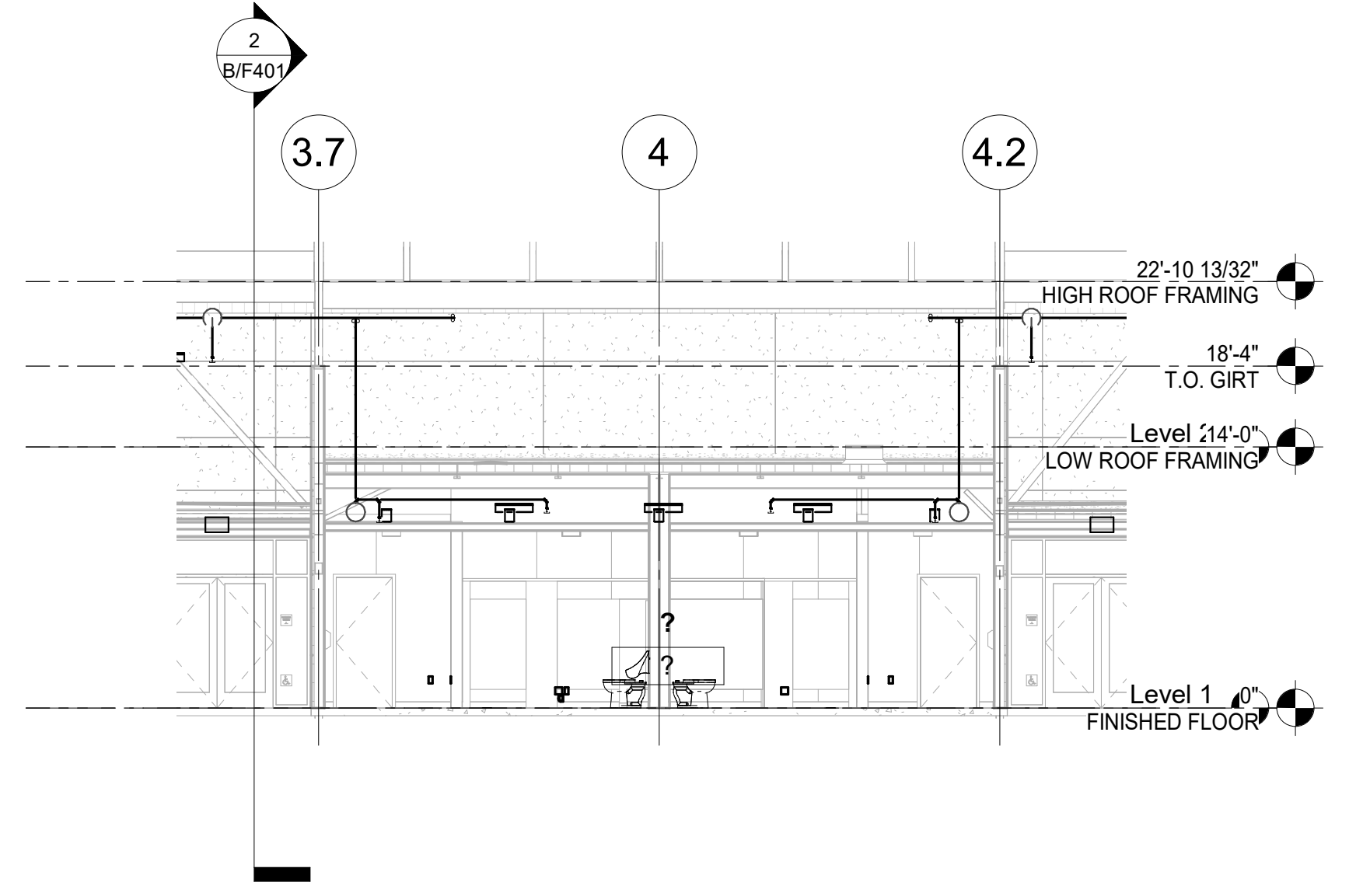
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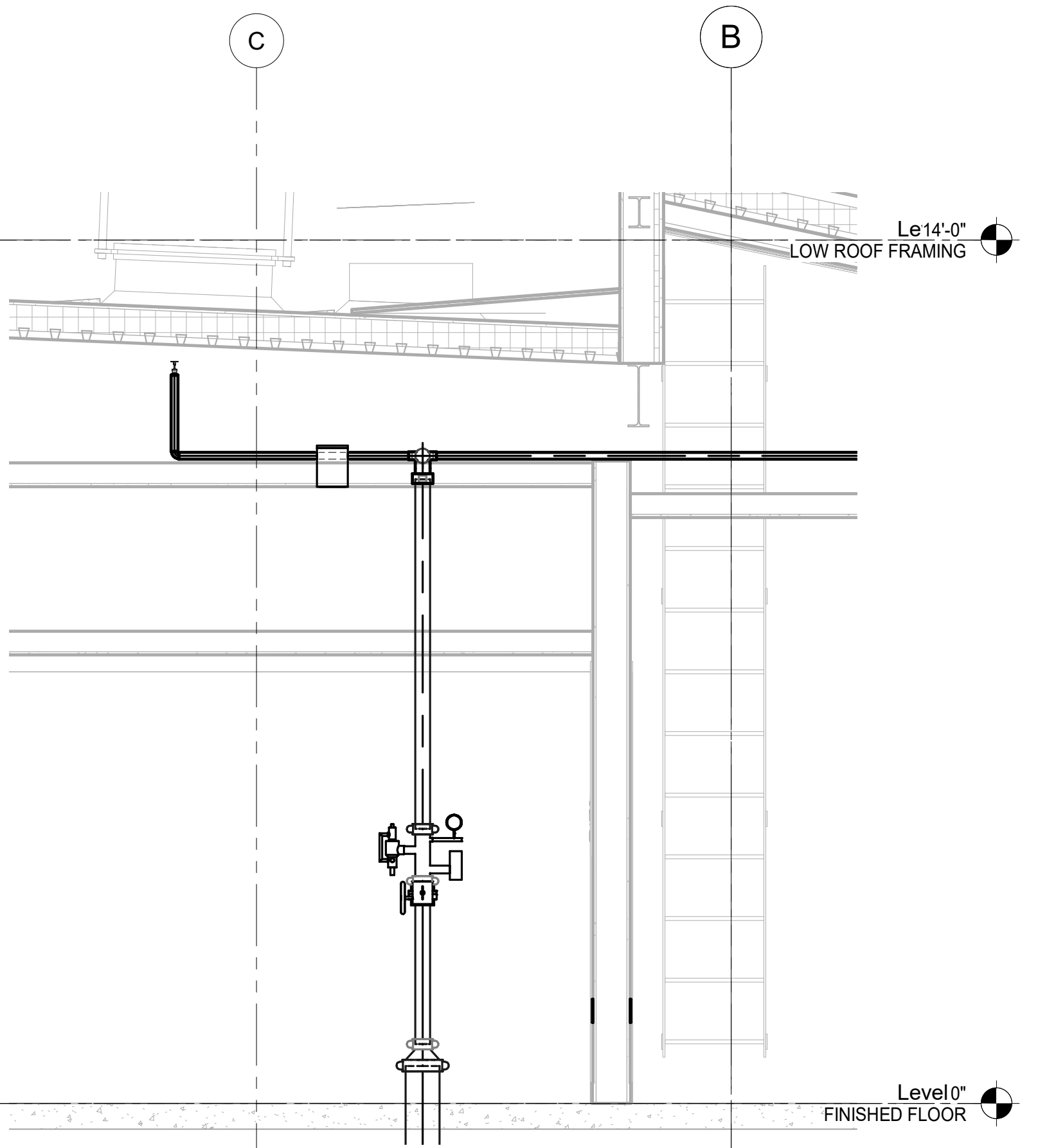
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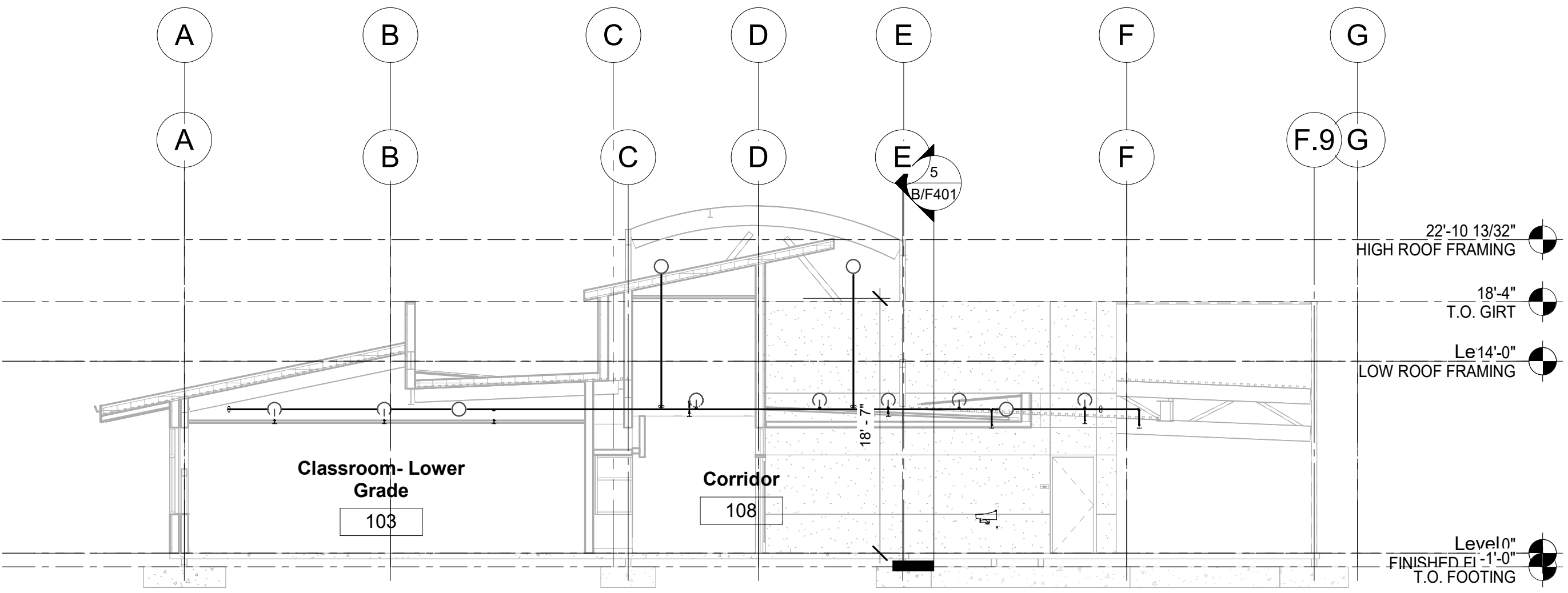
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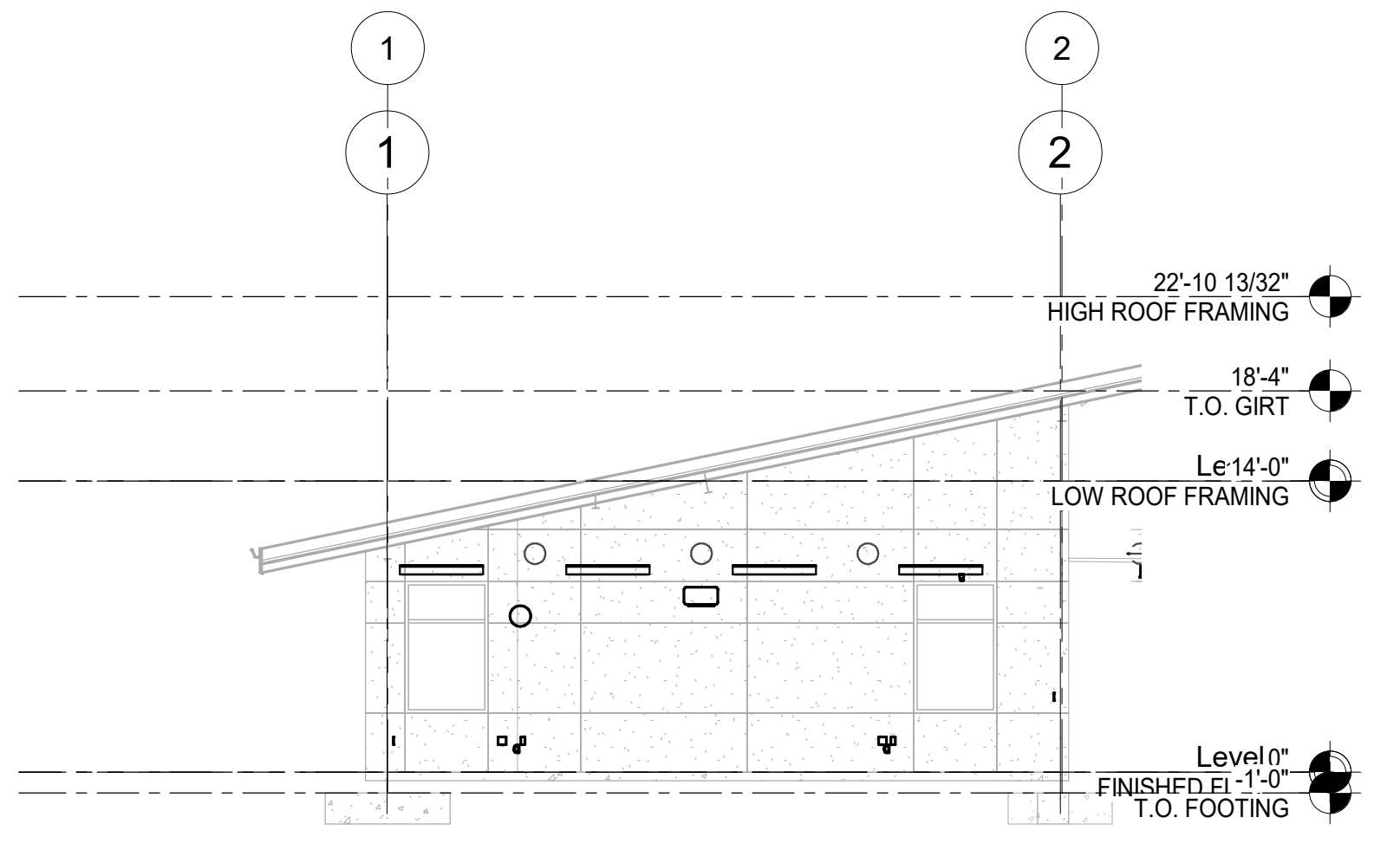
5 BUILDING B - INTERVENTION SECTION
1/8" = 1'-0"



1 BUILDING B - RISIER
1/2" = 1'-0"



2 BUILDING B - WEST SECTION
1/8" = 1'-0"



3 BUILDING B - CLASSROOM 100 SECTION
1/8" = 1'-0"

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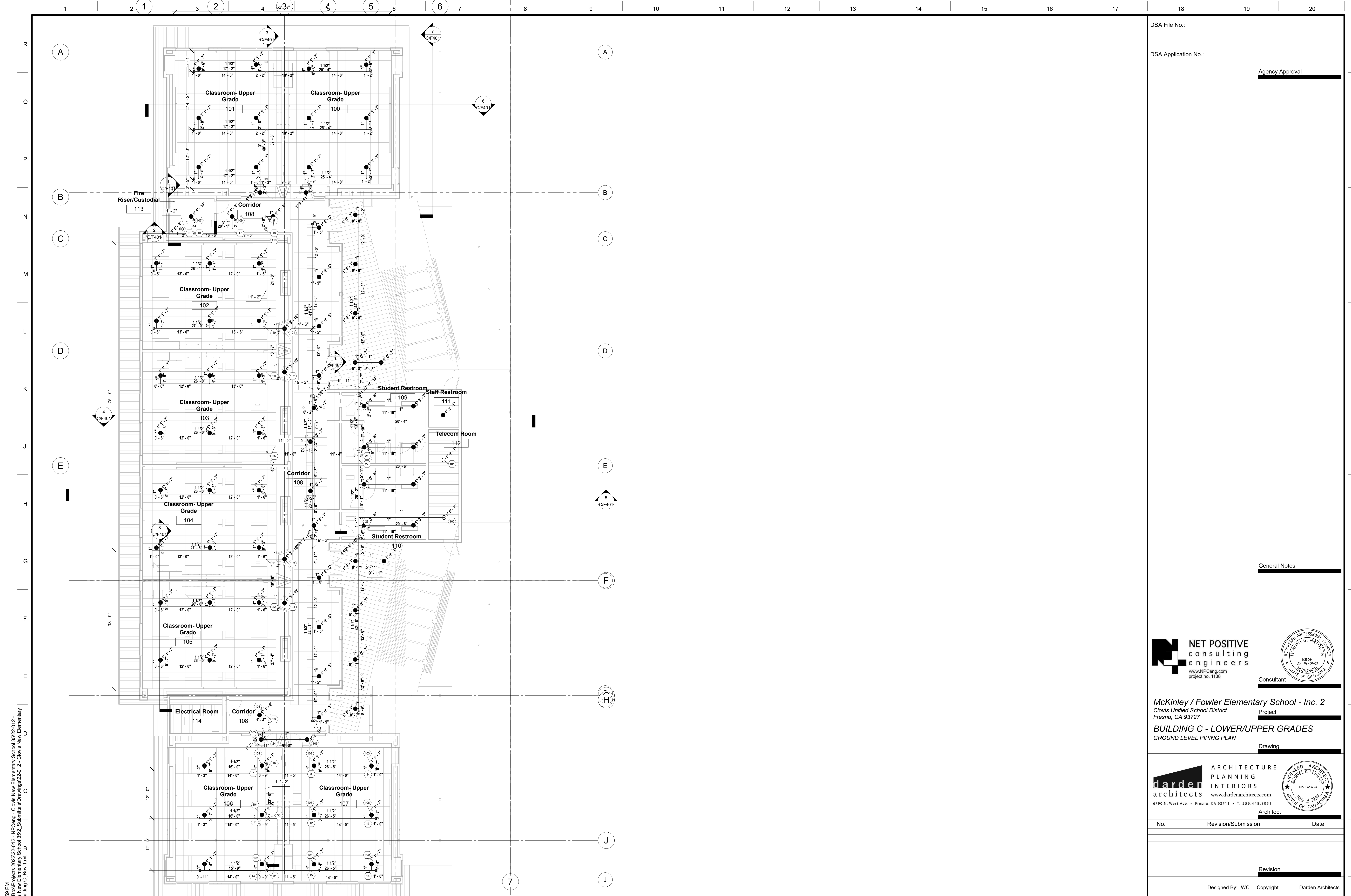
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 GROUND LEVEL PIPING PLAN


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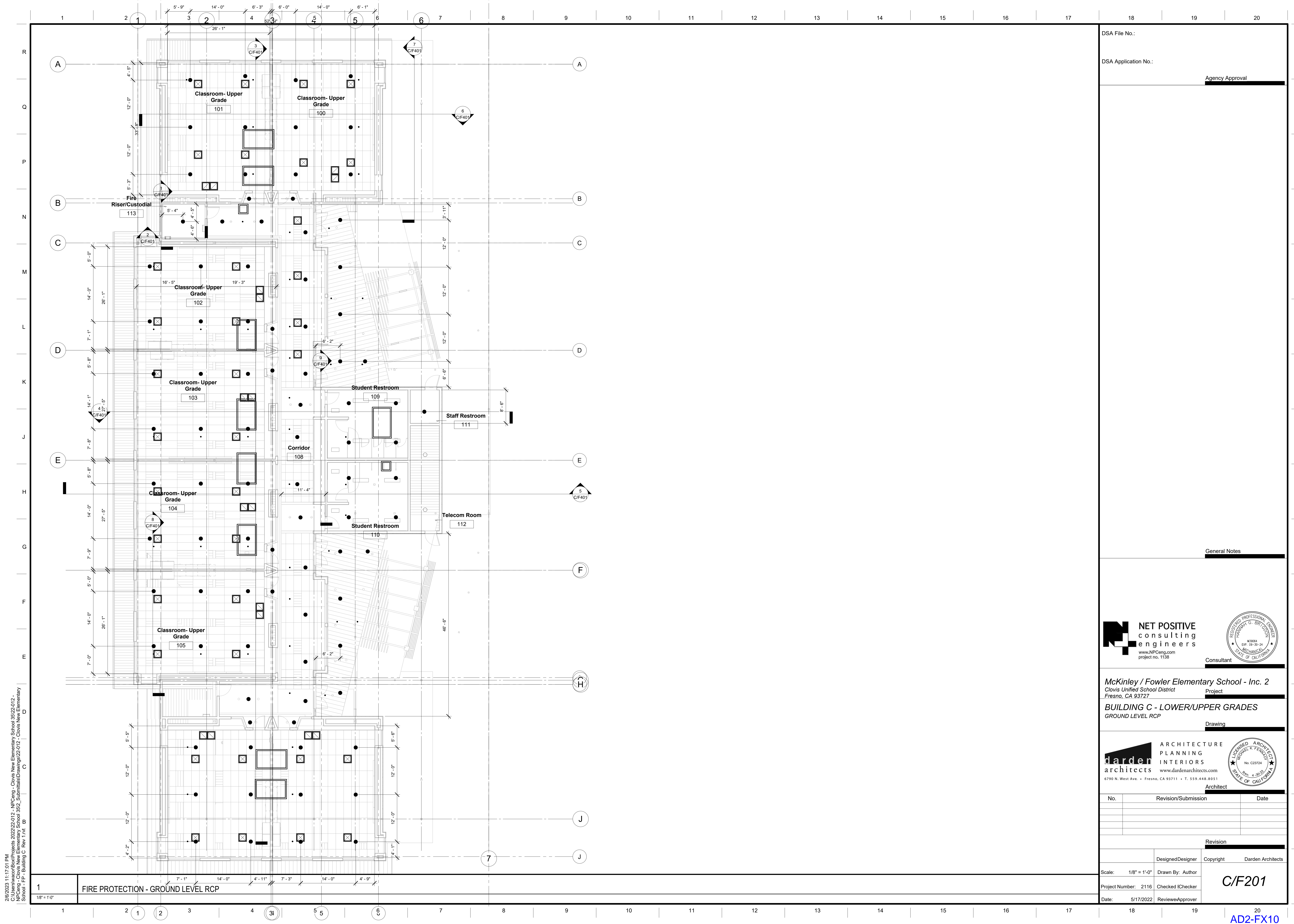
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FIRE PROTECTION - GROUND LEVEL PIPING PLAN

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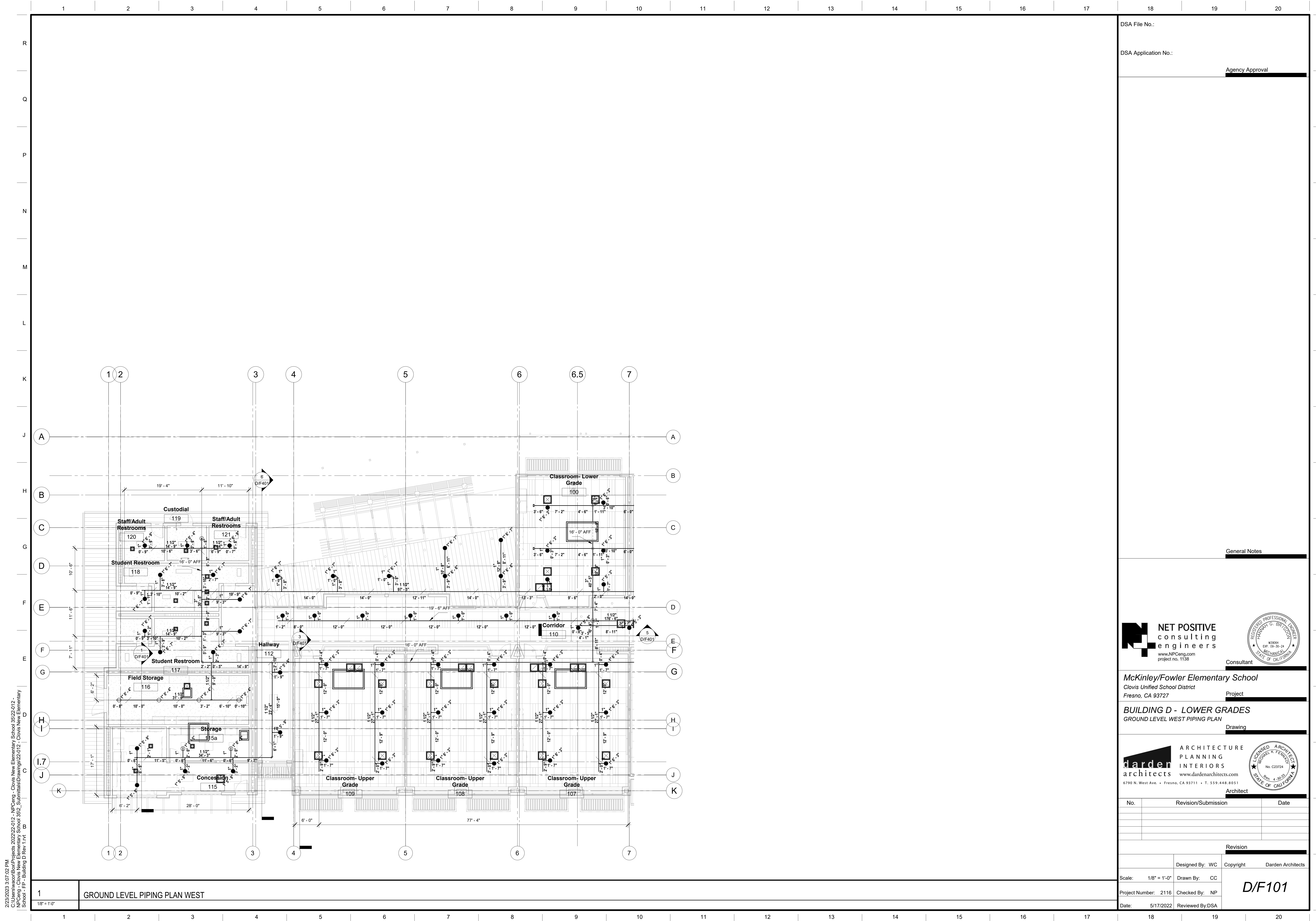
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1 GROUND LEVEL PIPING PLAN WEST

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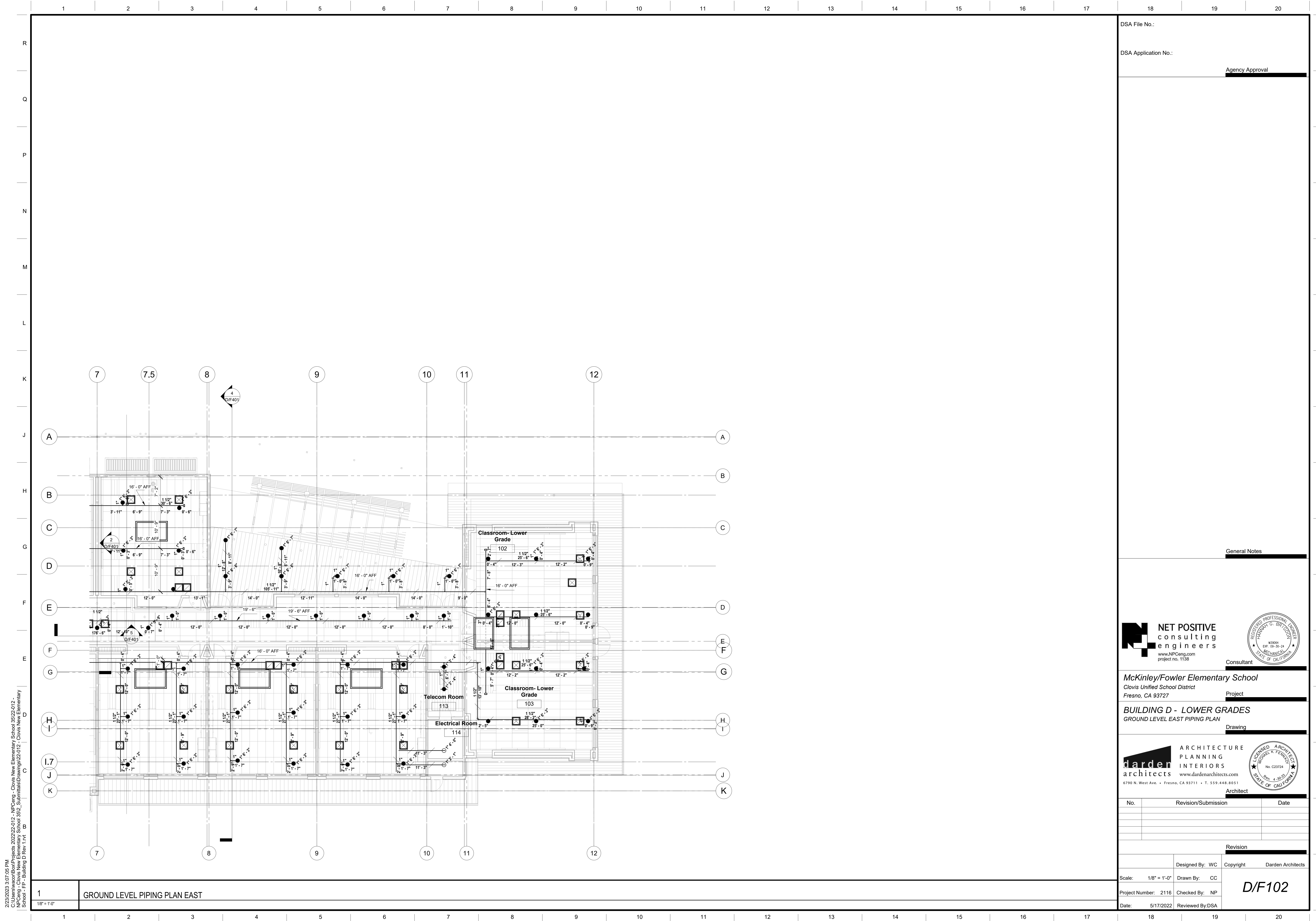
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GROUND LEVEL PIPING PLAN EAST

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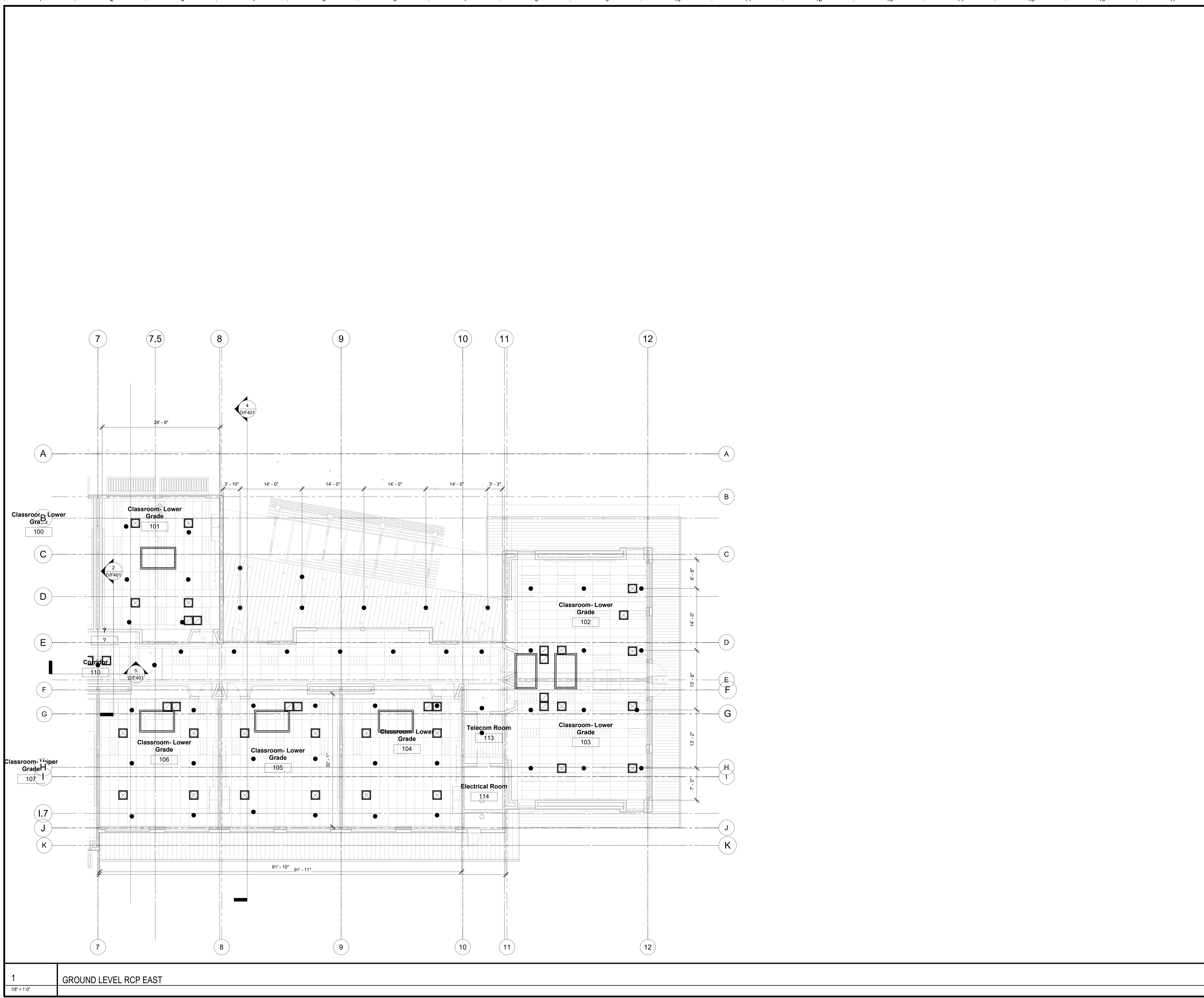
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Date: 5/17/2022	Reviewed By: DSA		

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BUILDING D - LOWER GRADES
GROUND LEVEL RCP EAST

Drawing

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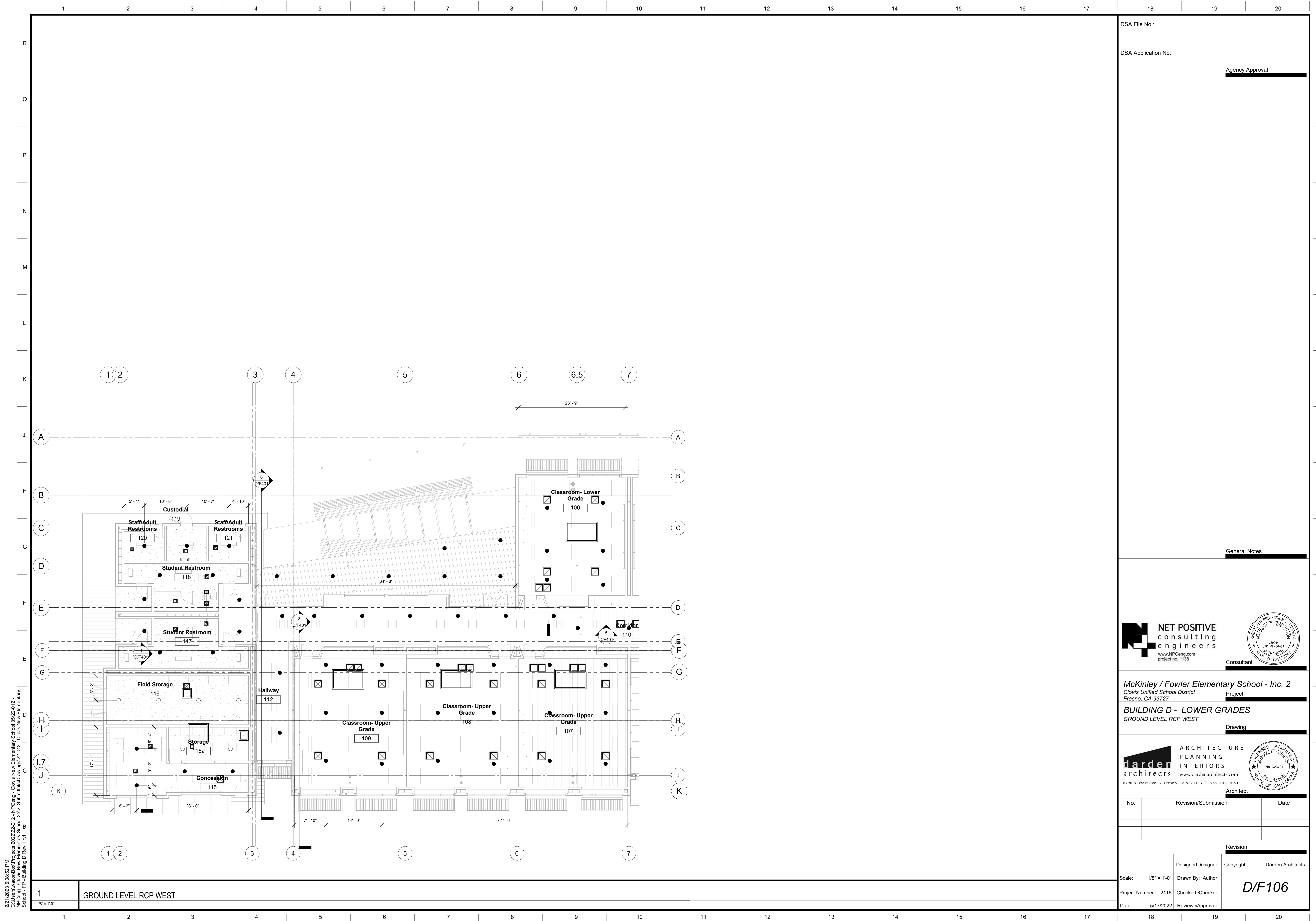
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Date: 5/17/2022	Review/Approver:	

1 GROUND LEVEL RCP EAST
1/8" = 1'-0"



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1 GROUND LEVEL RCP WEST

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BUILDING D - LOWER GRADES
 GROUND LEVEL RCP WEST

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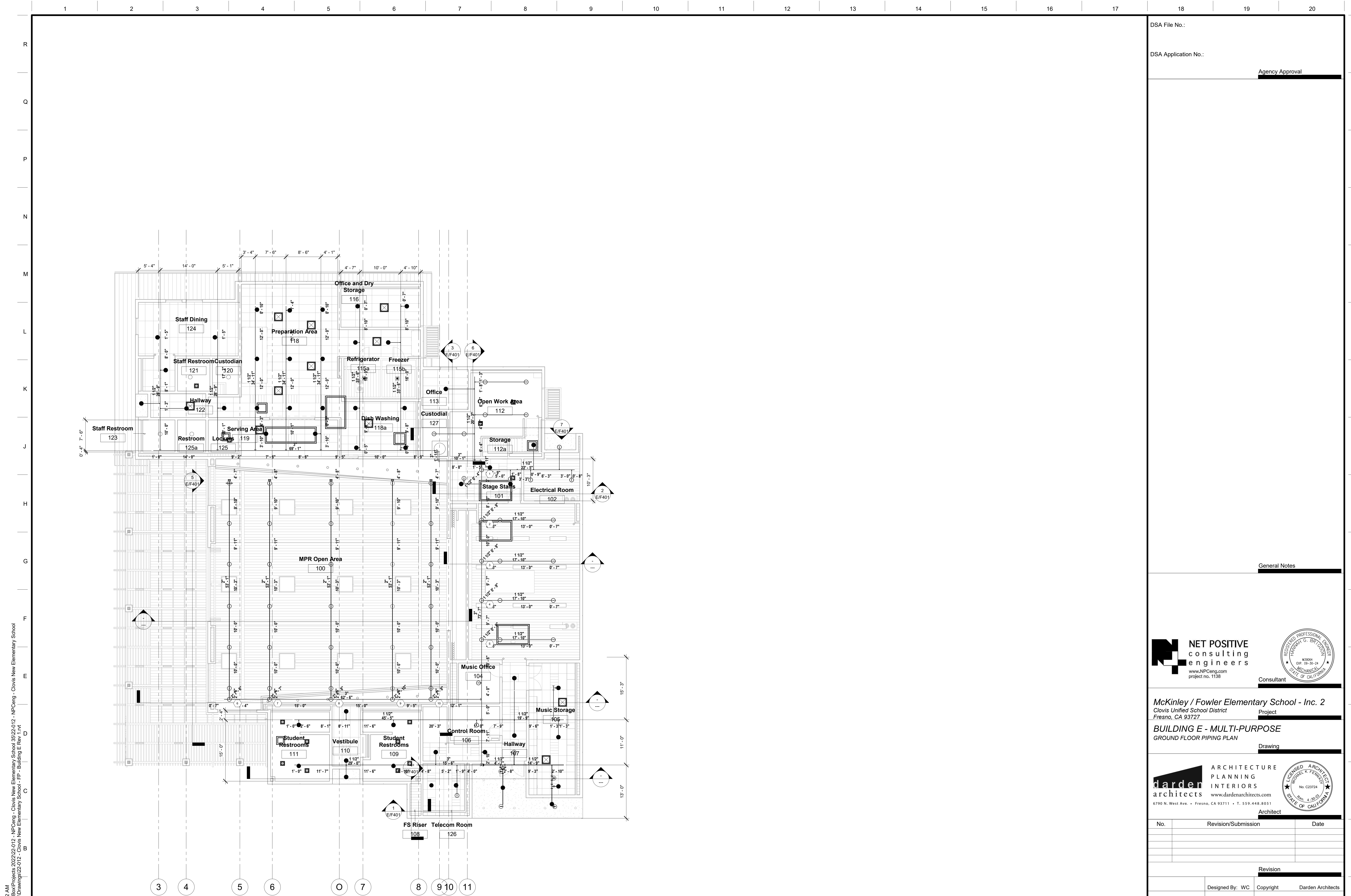
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D/F106



1
1/8" = 1'-0"

FIRE PROTECTION - BUILDING E GROUND LEVEL PIPING PLAN

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BUILDING E - MULTI-PURPOSE
GROUND FLOOR PIPING PLAN
Drawing

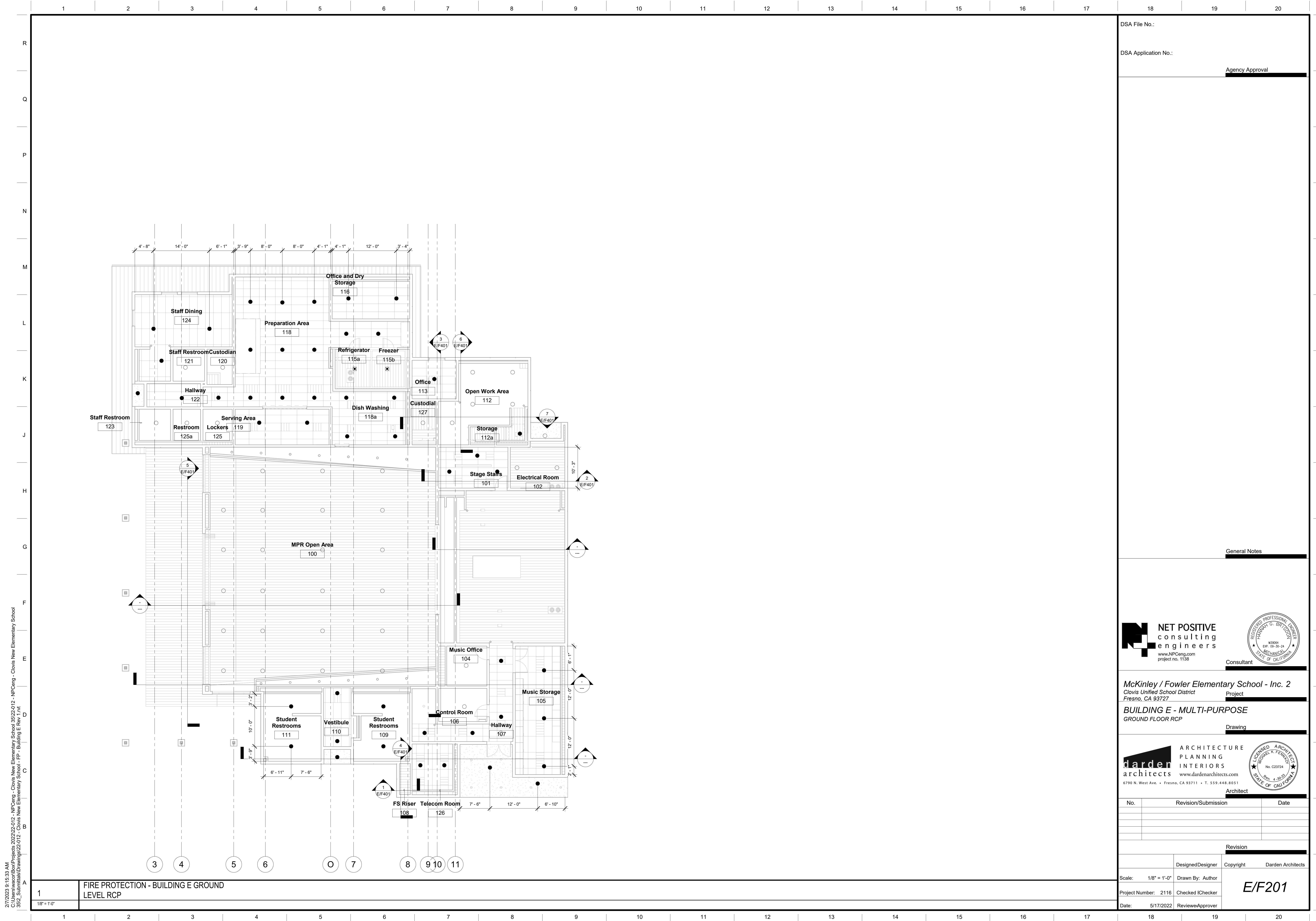
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E/F101

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 GROUND FLOOR RCP

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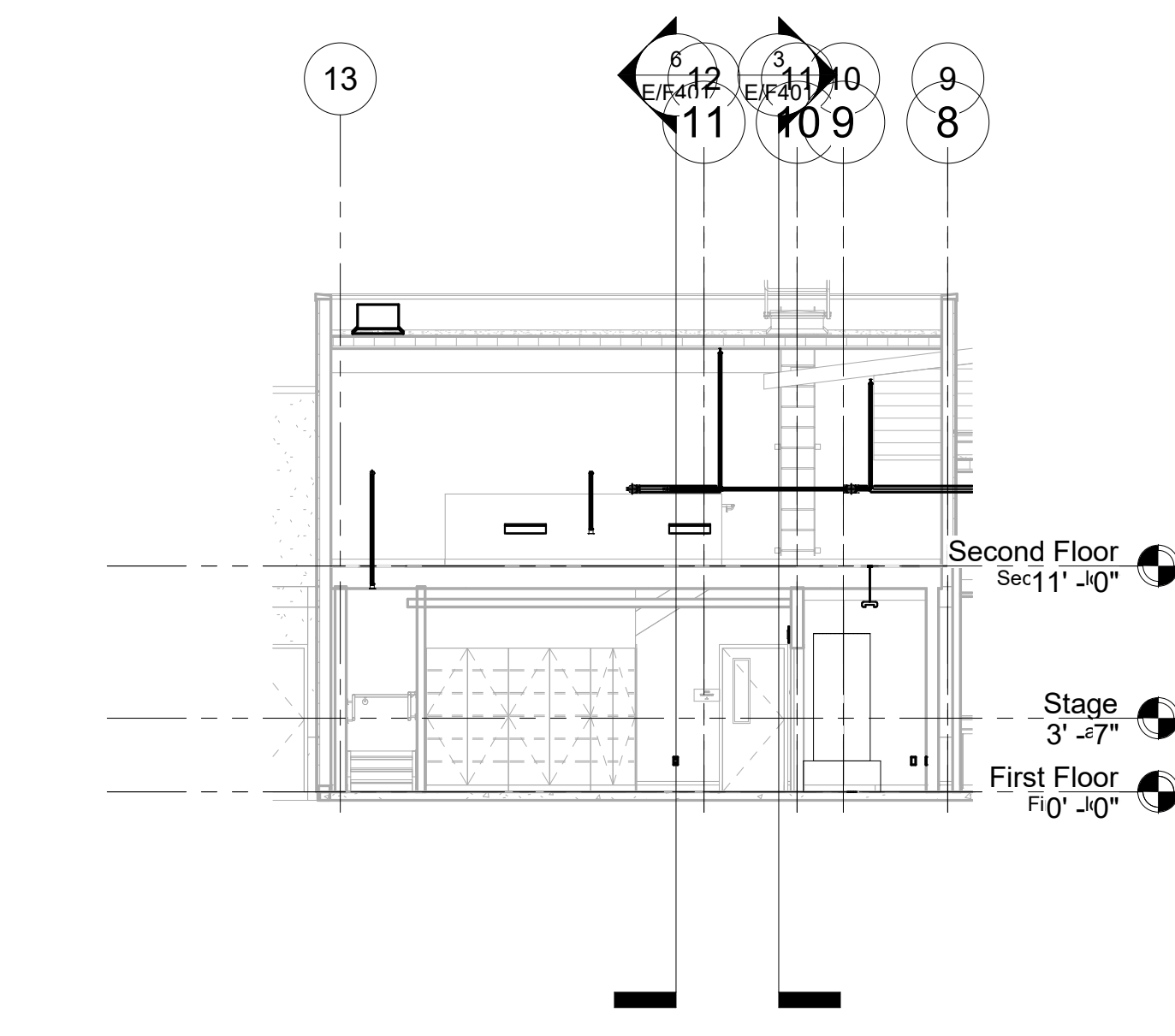
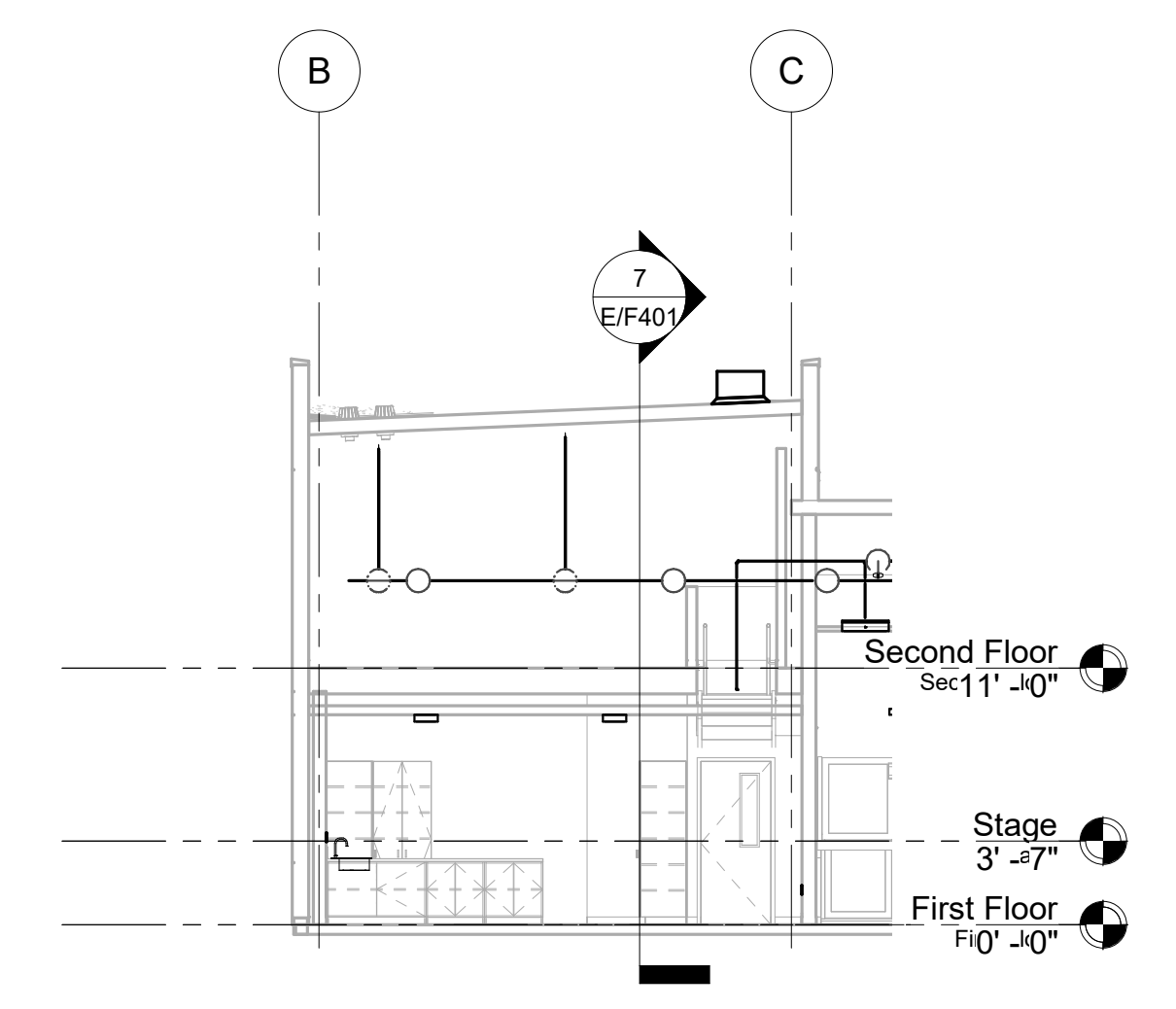
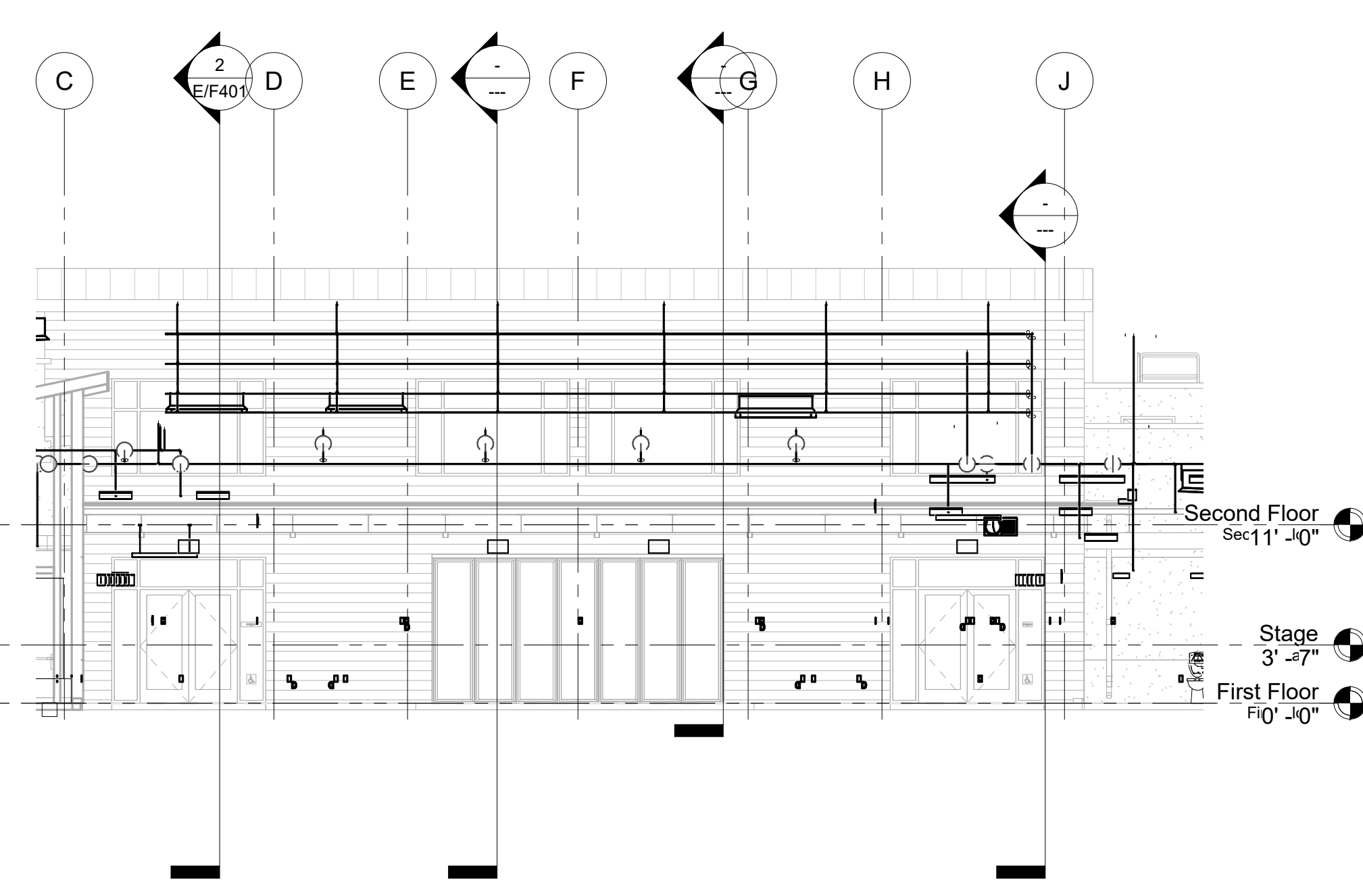
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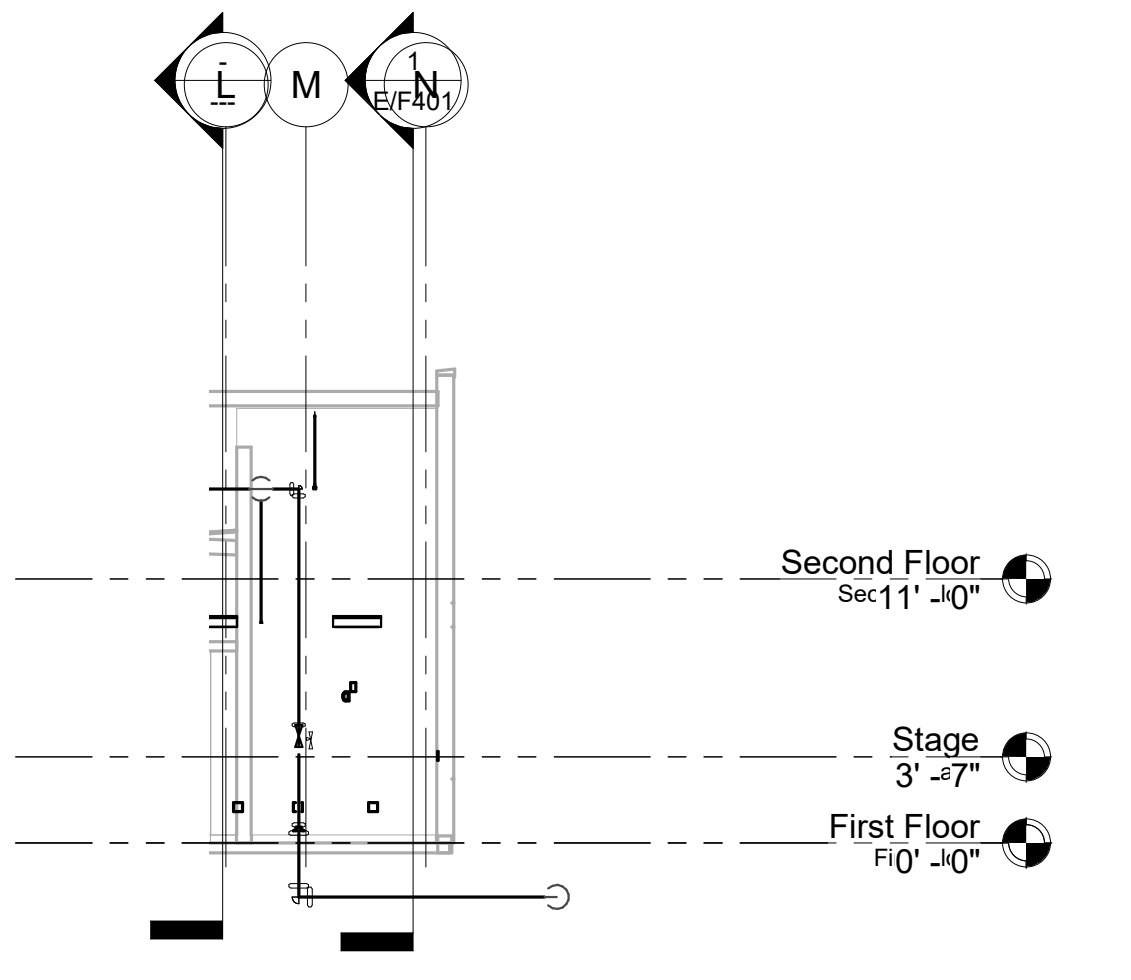
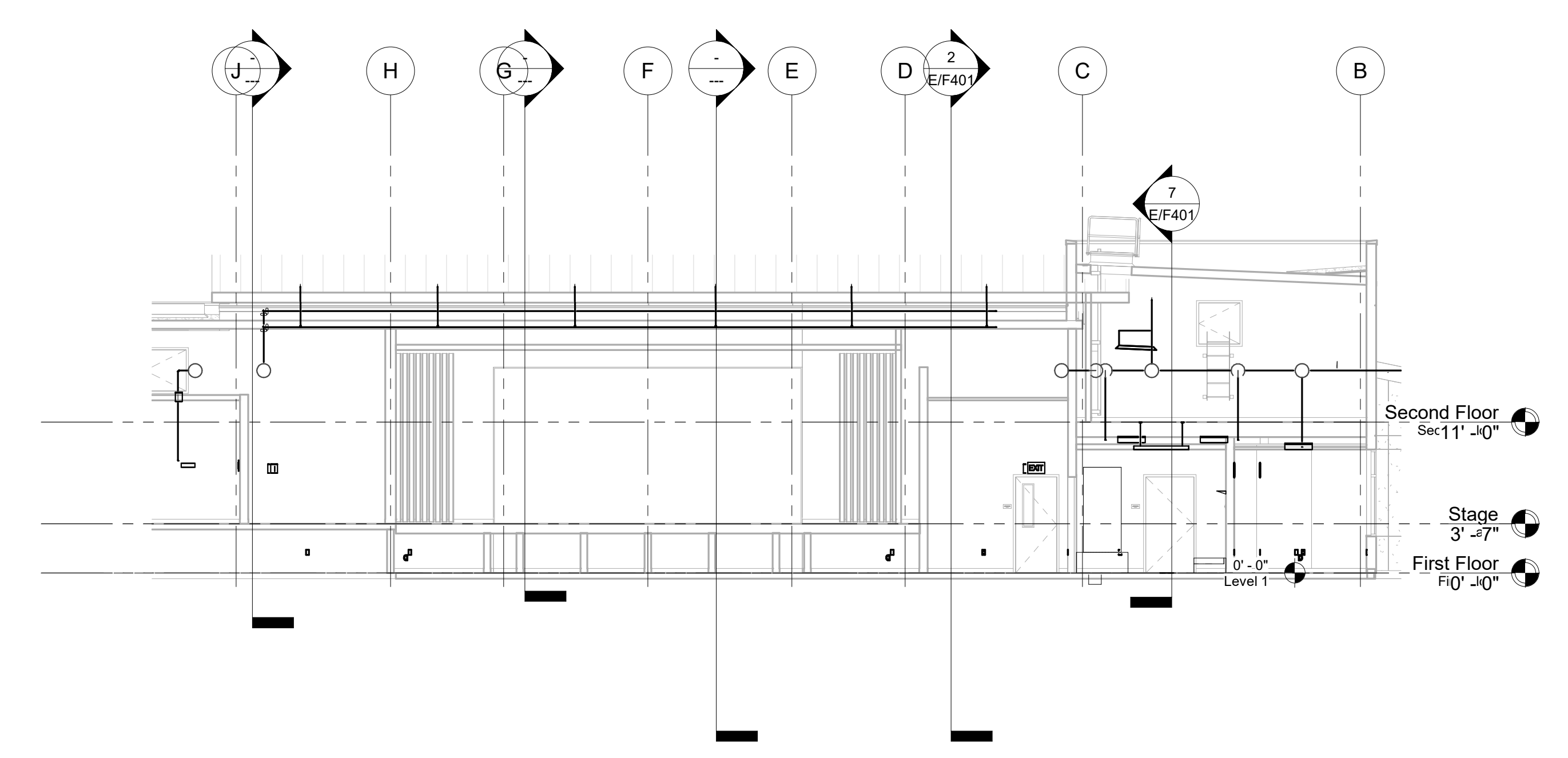
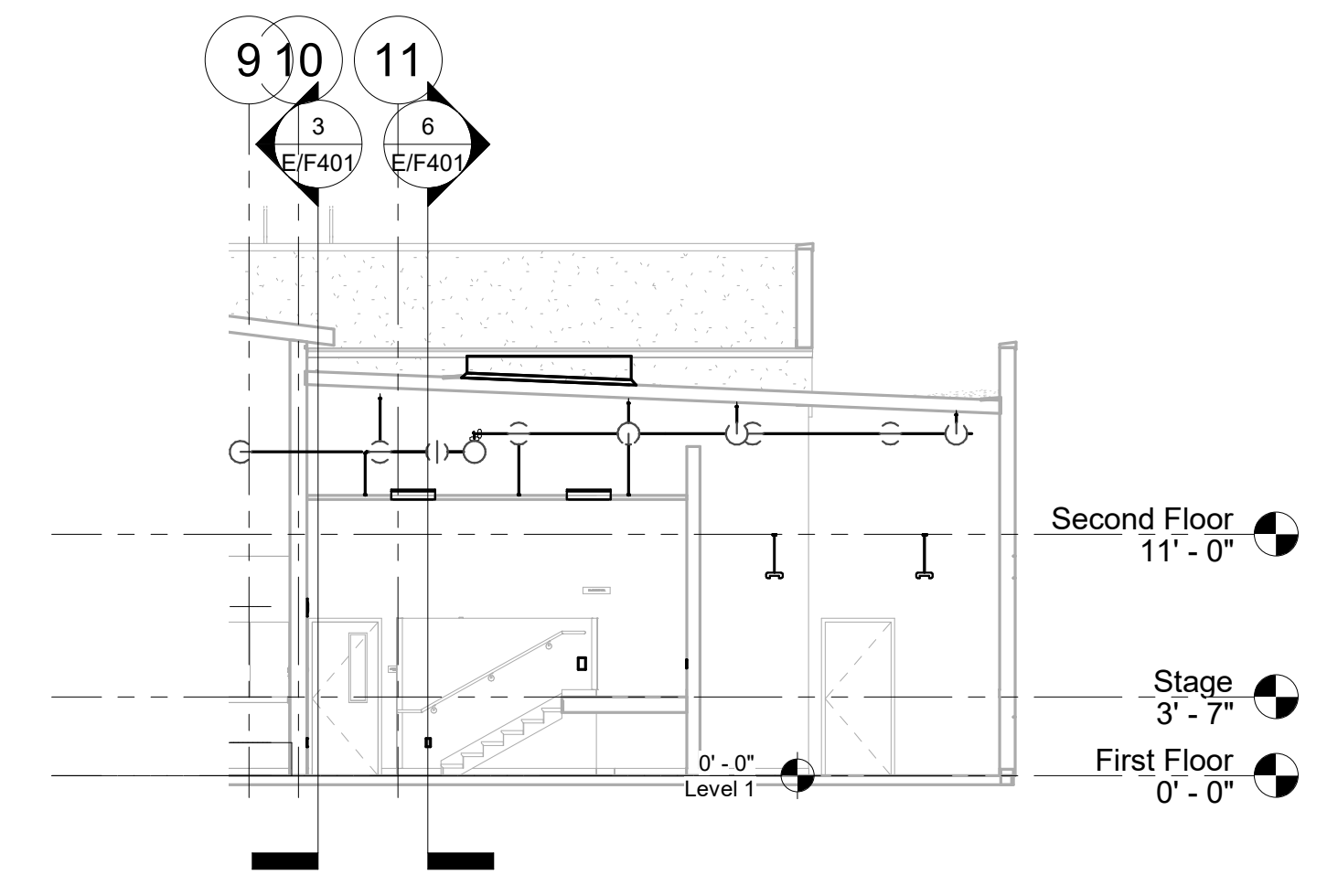
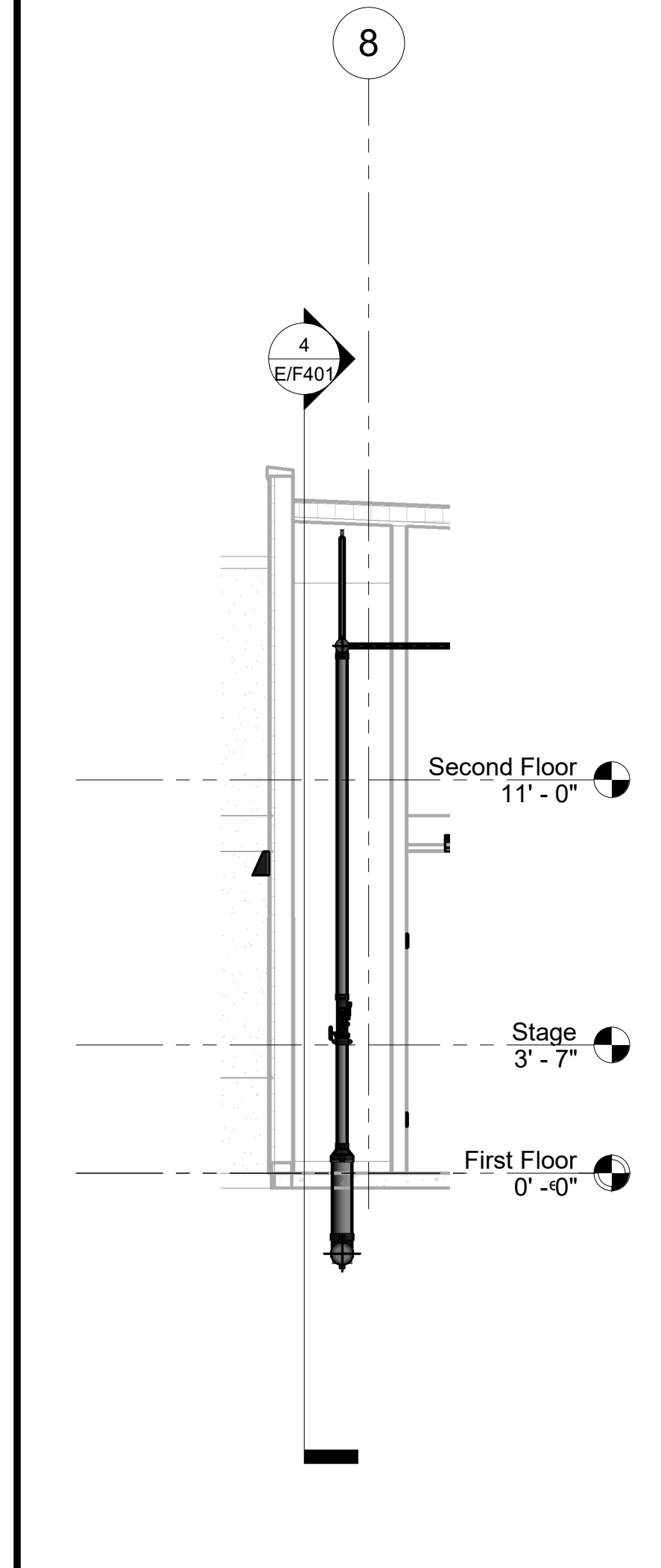
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5 MPR OPEN AREA WEST
1/8" = 1'-0"

6 OPEN WORK AREA SECTION WEST
1/8" = 1'-0"

7 STAIRS/STORAGE NORTH SECTION
1/8" = 1'-0"



1 BUILDING E RISER
1/4" = 1'-0"

2 ELECTRICAL ROOM SOUTH
1/8" = 1'-0"

3 BUILDING SECTION EAST
1/8" = 1'-0"

4 RISER ROOM WEST
1/8" = 1'-0"

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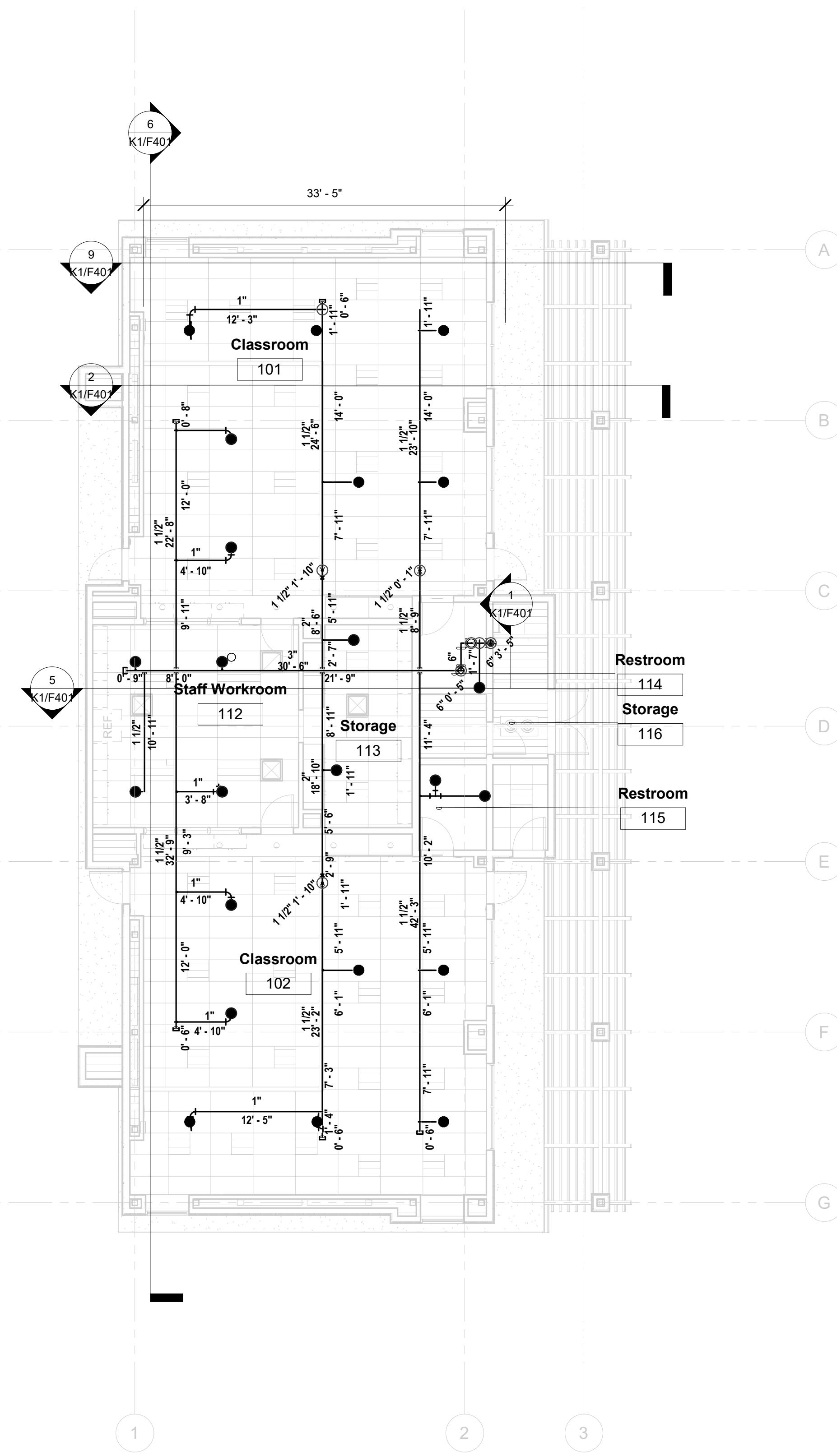
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1 GROUND LEVEL PIPING PLAN

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BUILDING K1 - KINDERGARTEN
 GROUND FLOOR PIPING PLAN

Drawing

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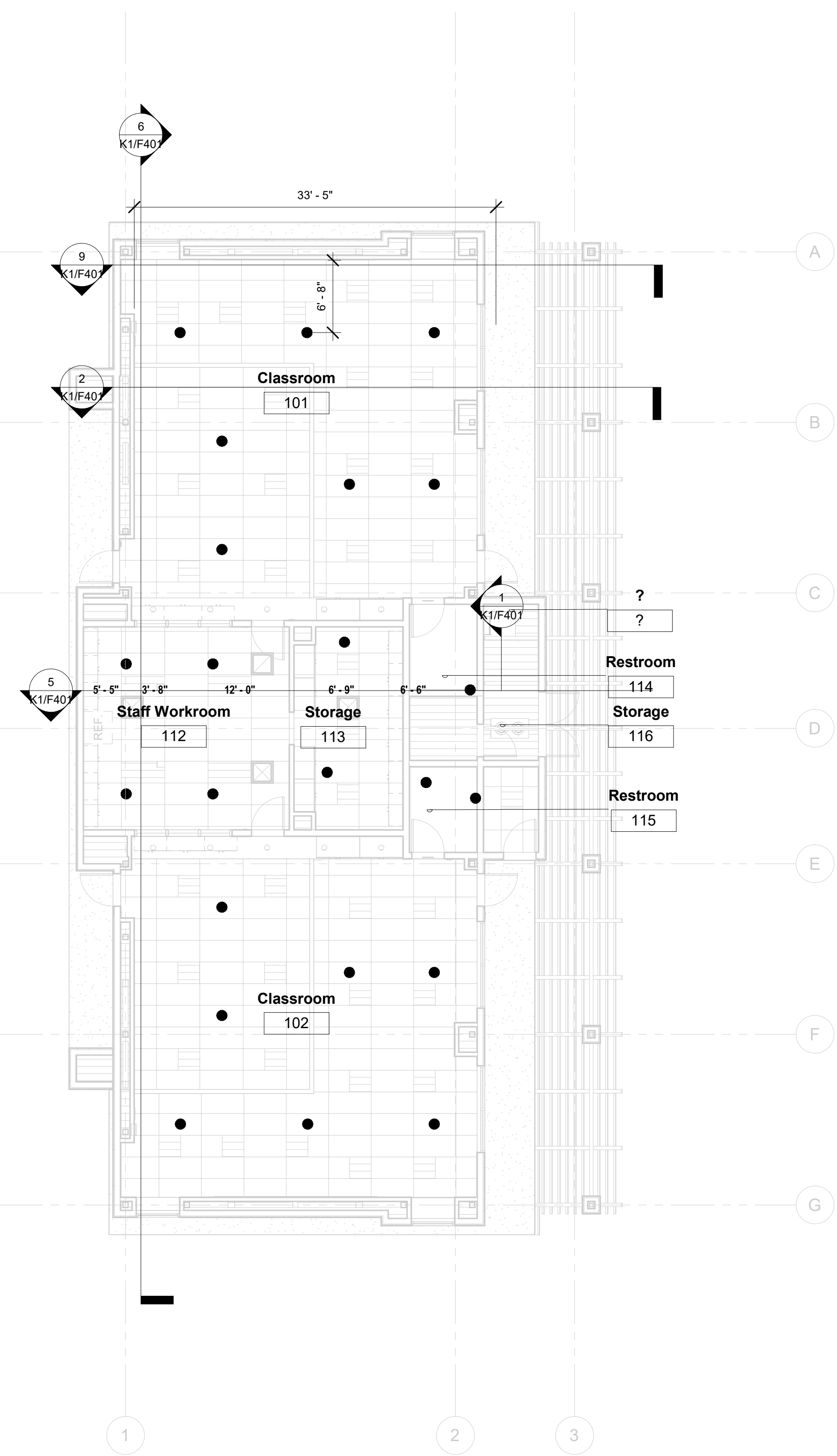
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1 GROUND LEVEL RCP
1/8" = 1'-0"

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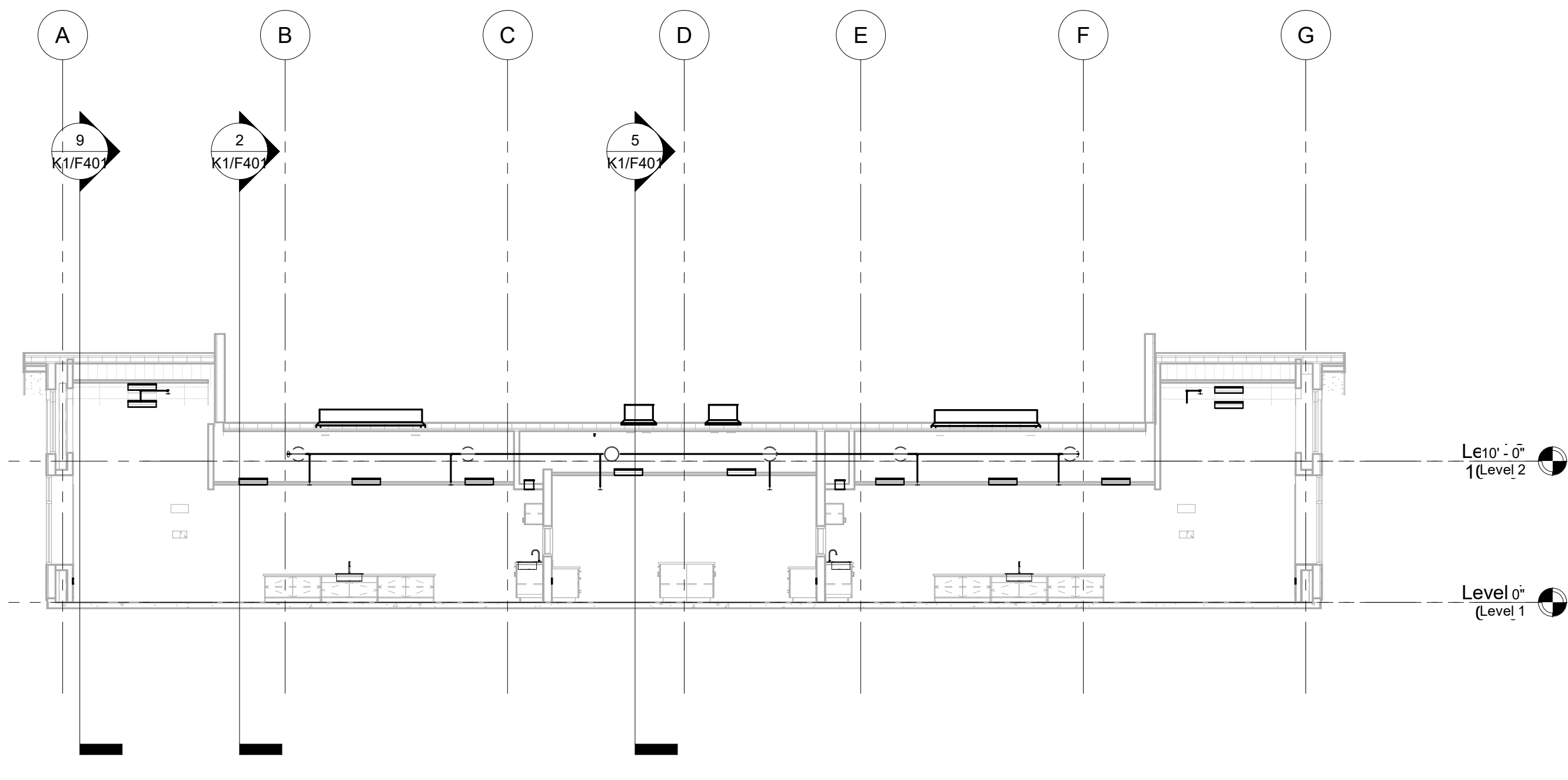
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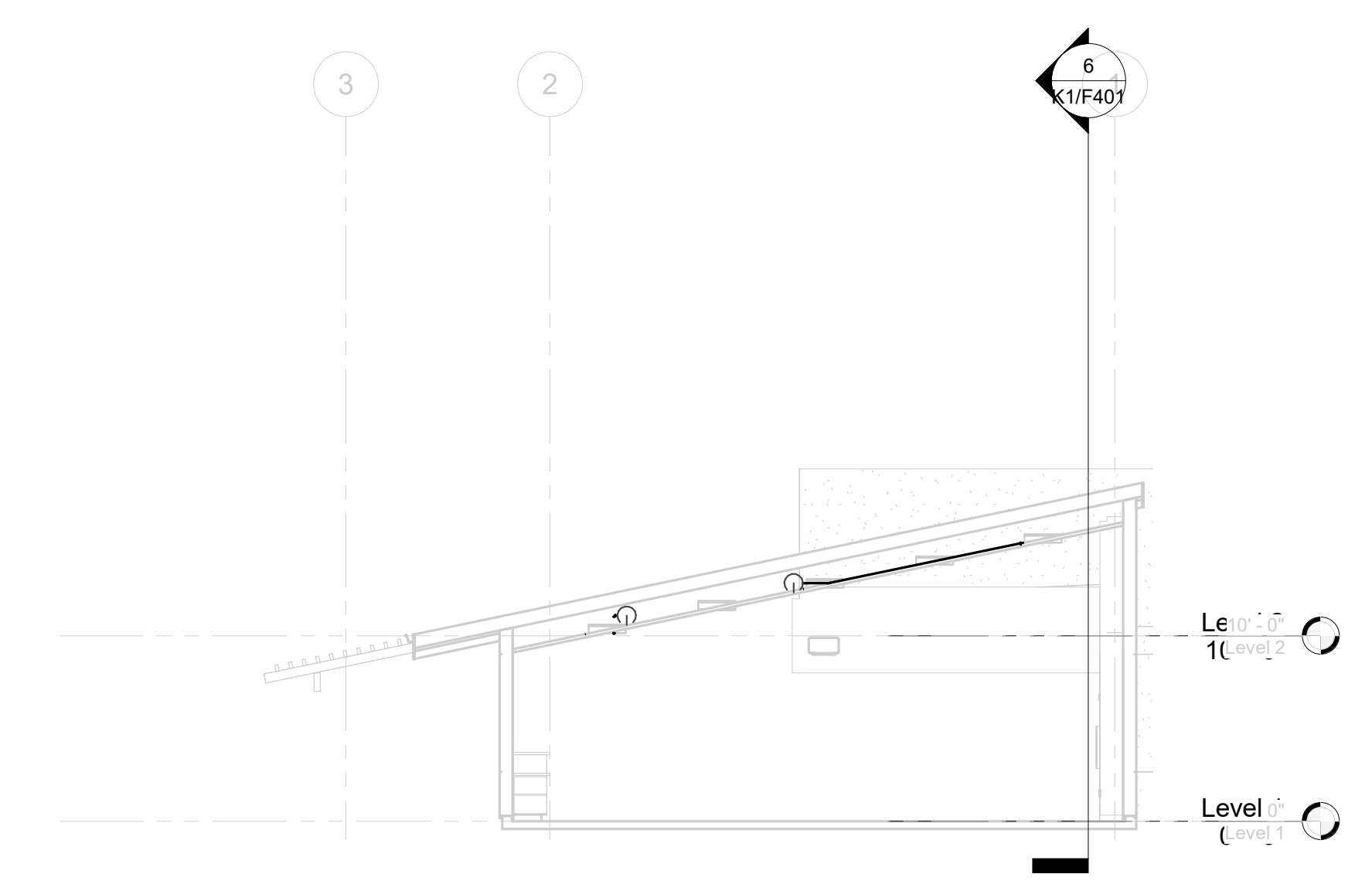
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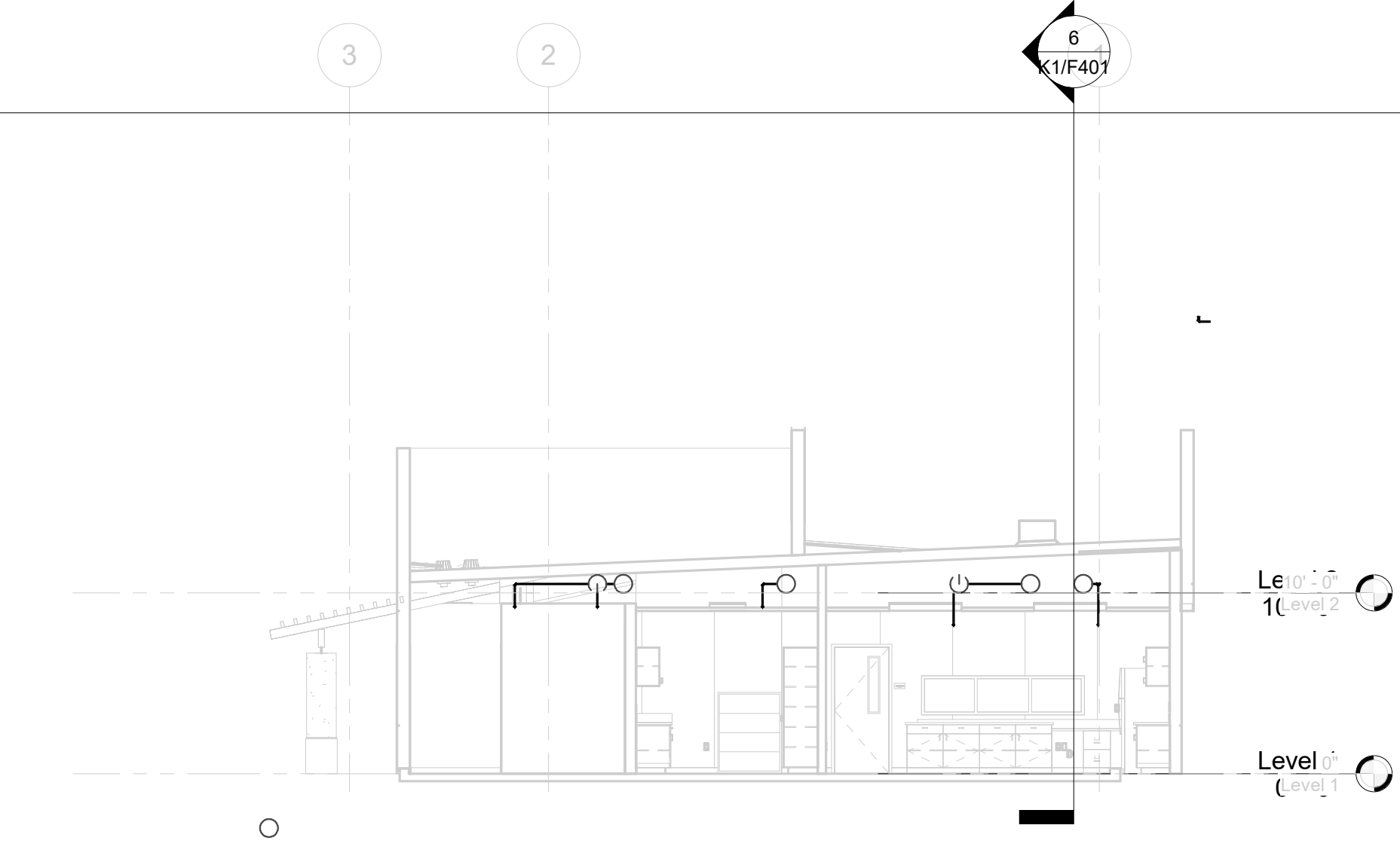
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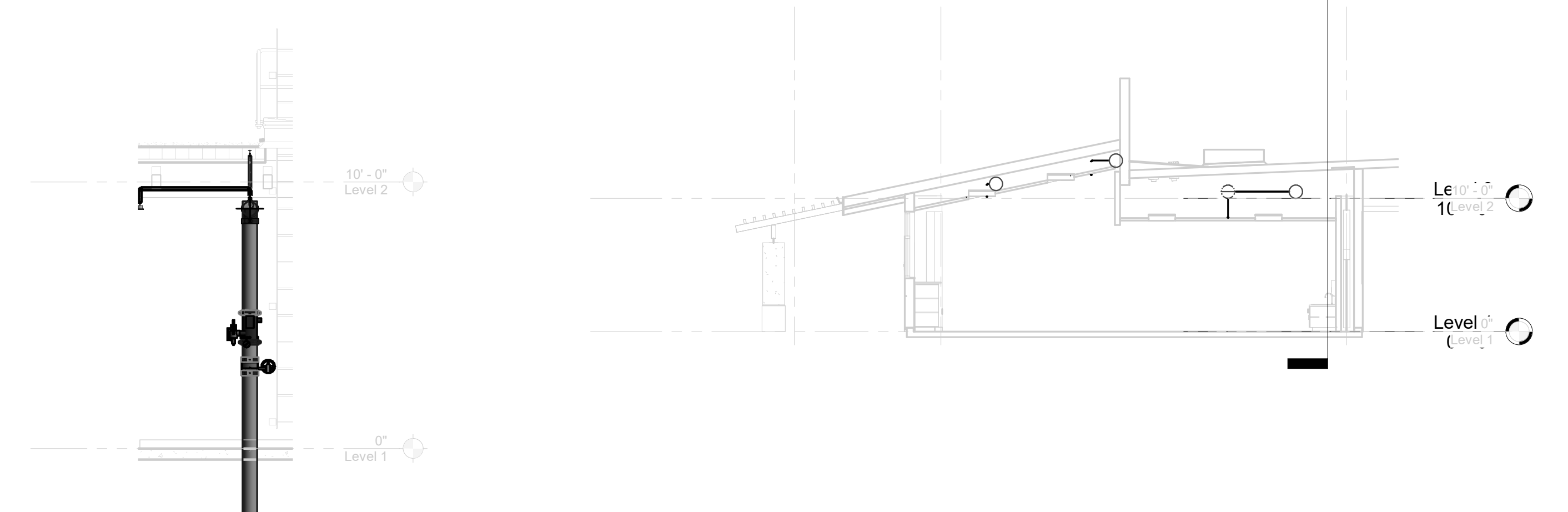
6 BUILDING K CORRIDOR CEILING
1/8" = 1'-0"



9 BUILDING K NORTH ATTIC SECTION
1/8" = 1'-0"



5 BUILDING K NORTH SECTION 2
1/8" = 1'-0"



2 BUILDING K NORTH SECTION
1/8" = 1'-0"

1 BUILDING K RISER SECTION
1/4" = 1'-0"

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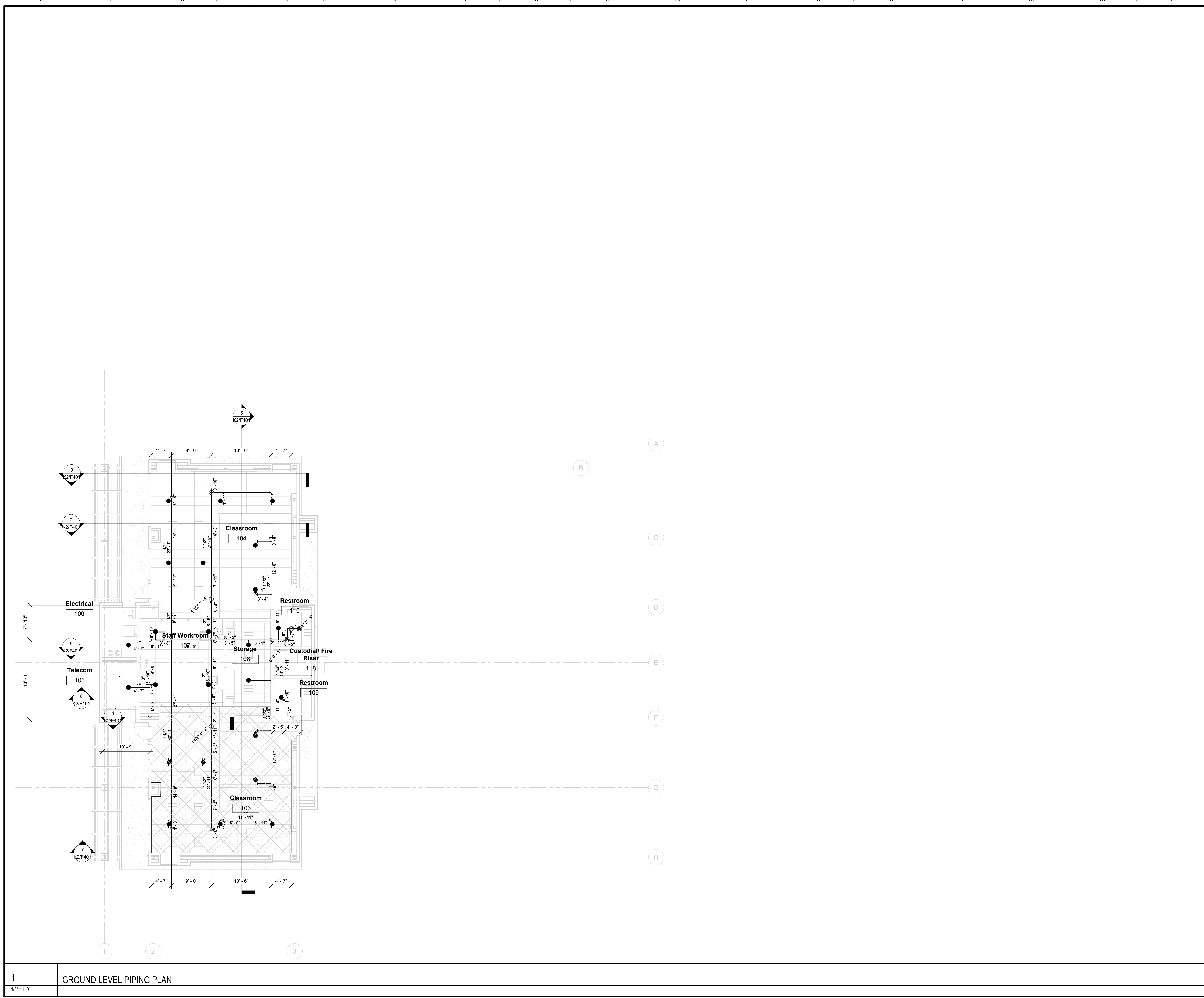
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1
1/8" = 1'-0"
GROUND LEVEL PIPING PLAN

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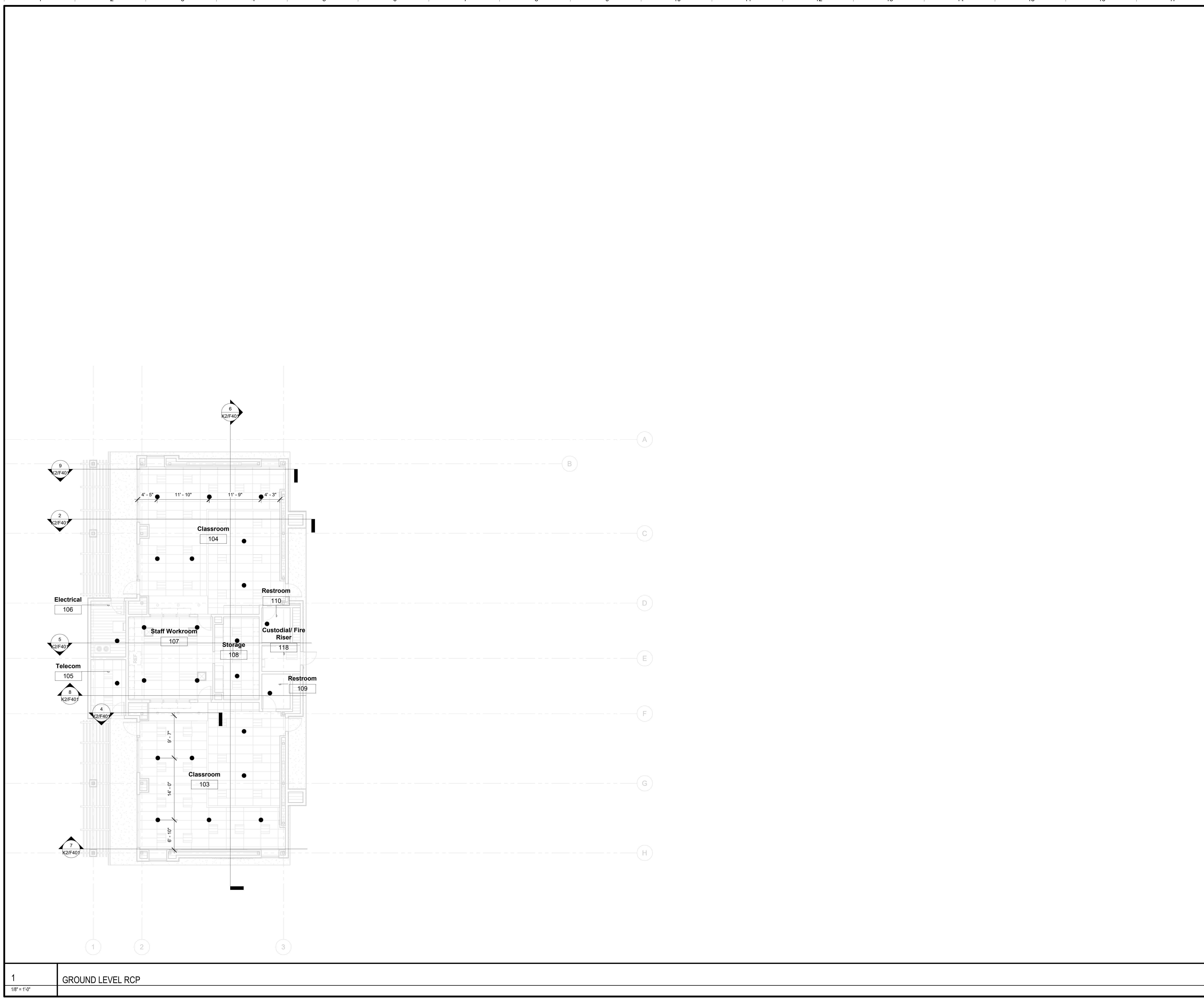
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1
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LEGEND:

(335.21)	EXISTING ELEVATION	WCR	WHEELCHAIR RAMP		ASPHALT CONCRETE PAVING IMPROVEMENTS
AC	ASPHALTIC CONCRETE		BENCHMARK		CONCRETE BLOCK WALL
CE	CONCRETE EDGE		SURVEY CONTROL POINT		CONCRETE IMPROVEMENTS
CR	CROWN OF ROAD		ELECTRICAL CABINET		TRUNCATED DOMES
EP	EDGE OF PAVEMENT		ELECTRICAL CONDUIT		RIPRAP
EPB	ELECTRICAL PULLBOX		ELECTRICAL METER		CHAIN LINK FENCE
ET	EDGE OF TRAVELED WAY		POWER POLE		EDGE OF ASPHALT CONCRETE PAVEMENT
EVA	ELECTRICAL VAULT		STREET LIGHT		FLOWLINE AND DIRECTION
FNCL	CHAIN LINK FENCE		DOOR/GATE		IRON FENCE
GB	GRADE BREAK		FOUND MONUMENT		UNDERGROUND ELECTRIC
GFL	GUTTER FLOWLINE		GUY WIRE ANCHOR		OVERHEAD ELECTRIC
TBW	TOP BACK OF WALK		IRRIGATION DISTRICT STANDPIPE		OVERHEAD TELEPHONE
TFC	TOP OF CURB		DROP INLET		STORM DRAIN LINE; SIZE AS NOTED
TFW	TOP FACE OF WALK		STORM DRAIN MANHOLE		SEWER LINE; SIZE AS NOTED
TOB	TOP OF BANK		STREET LIGHT PULLBOX		UNDERGROUND TELEPHONE
TOE	TOE OF SLOPE		SEWER MANHOLE		WATER LINE; SIZE AS NOTED
TOP	TOP OF SLOPE		TELEPHONE MANHOLE		FUTURE RIGHT-OF-WAY
TPB	TELEPHONE PULLBOX		TELEPHONE POLE		EXISTING RIGHT-OF-WAY
UTH	UNIDENTIFIED TRENCH/SCAR LINE		WATER BLOW-OFF		EXISTING PROPERTY LINE
VGFL	VALLEY GUTTER FLOWLINE		FIRE HYDRANT		PROPOSED RIGHT-OF-WAY
BW	BLOCK WALL		WATER METER		FUTURE CONCRETE IMPROVEMENTS
HW	HEADWALL		WATER VALVE		PROPOSED DETECTOR CHECK VALVE
			PROPOSED FIRE HYDRANT		PROPOSED STORM DRAIN MANHOLE
			PROPOSED STORM DRAIN INLET		PROPOSED WATER VALVE
			PROPOSED WATER METER		

ABBREVIATIONS:

AP	ANGLE POINT	STD DWG	STANDARD DRAWING
BEG	BEGIN CURVE	T	TOWNSHIP
BEG	BEGIN	TS	TRAFFIC SIGNAL
C	COMMUNICATION	TYP	TYPICAL
DI	DUCTILE IRON	USGS	UNITED STATES GEOLOGICAL SURVEY
E	EAST OR ELECTRIC OR EXISTING	VERT	VERTICAL
EC	END CURVE	W	WATER OR WEST
ELEV	ELEVATION	WS	WATER SERVICE
EXIST	EXISTING		
FH	FIRE HYDRANT		
FL	FLOWLINE		
F	FIRE SERVICE		
FO	FIBER OPTIC		
G	GAS		
HORIZ	HORIZONTAL		
ID	INNER DIAMETER		
IRR	IRRIGATION		
LF	LINEAR FEET		
Lt	LEFT		
MDB&M	MOUNT DIABLO BASE AND MERIDIAN		
MIN	MINIMUM		
N	NORTH		
P	PROPOSED		
NW	NORTHWEST		
R	RANGE		
Rt	RIGHT		
R/W	RIGHT-OF-WAY		
S	SEWER OR SOUTH		
SD	STORM DRAIN		
SS	SEWER SERVICE		
STA	STATION		

WATER NOTES:

- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FRESNO, STANDARD SPECIFICATIONS, DEPARTMENT OF PUBLIC WORKS, LATEST EDITION.
- FIRE HYDRANT AND VALVE SHALL BE INSTALLED PER CITY STANDARD DRAWING W-3.
- ALL WORK SHOWN ON THESE PLANS SHALL BE INSPECTED BY THE CITY OF FRESNO. NOTIFY WATER SYSTEMS MANAGER AND CONSTRUCTION MANAGEMENT 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- SANITARY SEWERS MUST BE COMPLETE BEFORE WATER MAIN CONSTRUCTION IS STARTED.
- WATER MAIN CONSTRUCTION MUST BE COMPLETE BEFORE P.G.&E. STARTS THE GAS AND ELECTRICAL UNDERGROUND INSTALLATION.
- MAXIMUM LENGTH OF RISER, TO BRING FIRE HYDRANTS TO GRADE, SHALL BE INSTALLED PER CITY STANDARD DRAWING W-3.
- WATER SERVICES AND METER BOXES SHALL BE INSTALLED PER PUBLIC WORKS STANDARD DRAWINGS W-1 AND/OR W-2.
- PIPE RESTRAINT FITTINGS SHALL BE PROVIDED AT ALL TEES, CROSSES, REDUCERS, BENDS, CAPS, PLUGS, AND VALVES IN ACCORDANCE WITH THE CITY OF FRESNO, DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS, LATEST EDITION.
- THE USE OF CONCRETE THRUST BLOCKS MAY BE APPROVED IN SPECIAL SITUATIONS, BUT WILL ONLY BE USED WHEN SPECIFICALLY APPROVED IN WRITING BY THE CITY ENGINEER.
- POLYVINYL CHLORIDE (PVC) WATER MAIN IS TO BE INSTALLED IN ACCORDANCE WITH CITY OF FRESNO, DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWING W-29, LATEST EDITION.
- TWO DAYS BEFORE EXCAVATION, CALL UNDERGROUND SERVICE ALERT TOLL FREE AT 811.
- POTHOLE WATER MAIN AT ALL CITY WET-TIE CONNECTION LOCATIONS TO FACILITATE WET-TIE CONNECTIONS TO LINE AND GRADE.
- WATER SERVICES AND METER BOXES LOCATED WITHIN DRIVEWAY APPROACHES SHALL BE RELOCATED AT THE DEVELOPER'S EXPENSE.
- TRACER WIRE SHALL BE INSTALLED OVER ALL PVC WATER MAINS PER SECTION 22-3.3 OF CITY STANDARD SPECIFICATIONS
- WATER MAIN TRENCH, BEDDING, AND BACKFILL SHALL CONFORM TO STD DWG W-29.

GENERAL NOTES:

- THE WORK EMBRACED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF THE SPECIFICATIONS ENTITLED CITY OF FRESNO, STANDARD SPECIFICATIONS, DEPARTMENT OF PUBLIC WORKS, LATEST EDITION AND ANY AMENDMENTS THERETO, INSOFAR AS THE SAME MAY APPLY, WHICH SPECIFICATION HEREINAFTER ARE REFERRED TO AS THE STANDARD SPECIFICATIONS.
- INITIAL COMPACTION TESTS REQUIRED BY THE CITY SHALL BE PAID FOR BY THE DEVELOPER. ANY RETESTS REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR.
- ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE REQUIREMENTS OF THE CONSTRUCTION SAFETY ORDER, ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, FOR TRENCHES AND EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH THE CALIFORNIA CODE OF REGULATIONS, SECTION 7081 (b) TITLE 17, REGARDING REQUIRED SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER.
- TRENCH BACKFILL SHALL CONFORM TO CITY OF FRESNO STANDARD DRAWING W-29 AND SURFACE RESTORATION SHALL CONFORM TO THE CITY OF FRESNO STANDARD DRAWING P-48 AND THE FRESNO CITY STREET WORK PERMIT. BACKFILL SHALL BE 95% RELATIVE COMPACTION OF THE TOP TWO FEET FROM FINISH ANY SEWER CUT IN EXISTING PAVEMENT SHALL REQUIRE IMMEDIATE TEMPORARY TRENCH RESURFACING.

UTILITY NOTE:

UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

SITE BENCHMARK:

BRASS CAP ON NORTH SIDE OF BRIDGE HEADWALL, EAST SIDE OF FOWLER AT MCKINLEY ALIGNMENT.
ELEV. = 336.23 (USGS DATUM)

BENCHMARK:

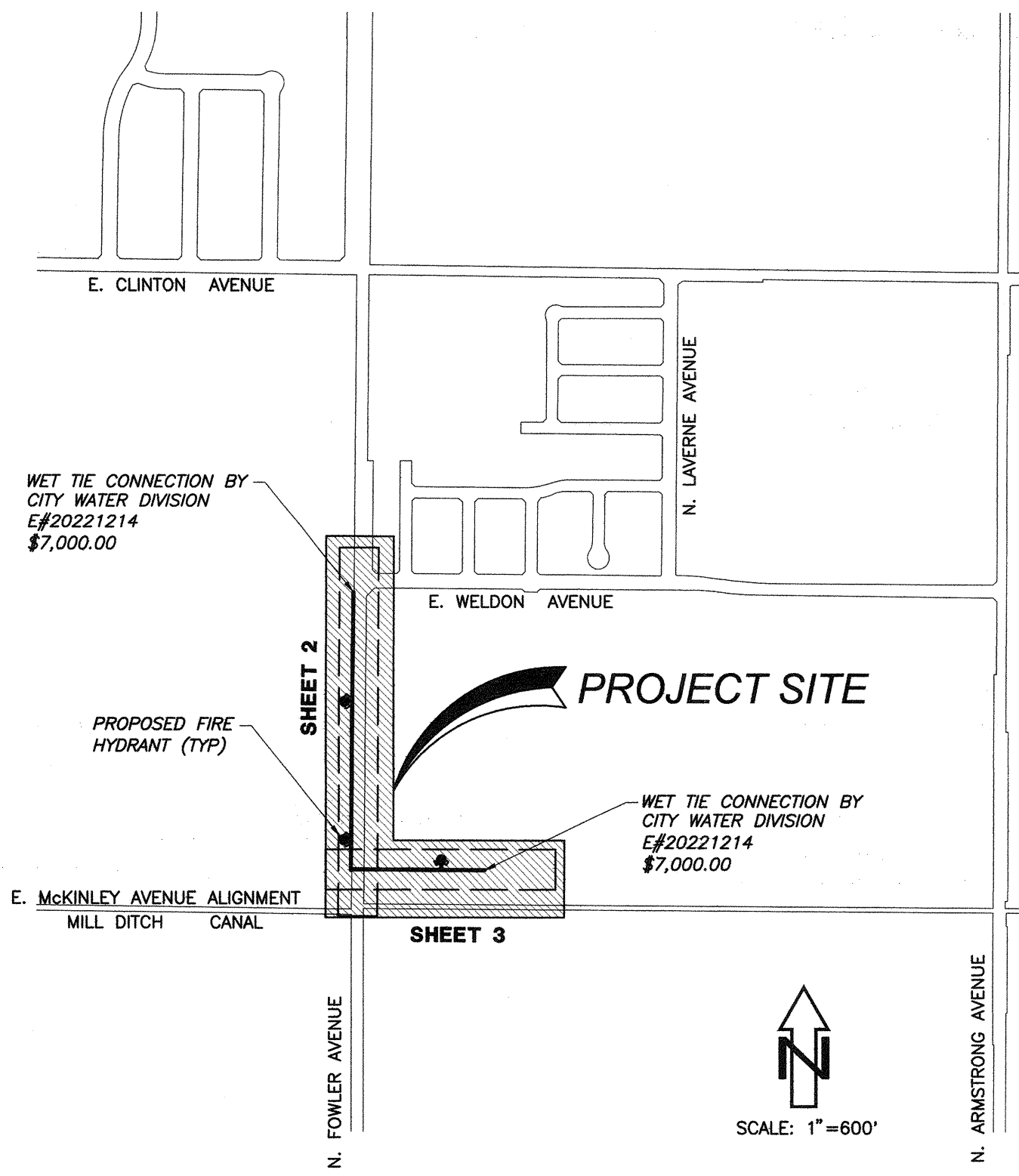
CITY OF FRESNO TBM 3404
CHISELED SQUARE ON CURB, NORTH SIDE OF CLINTON AVENUE, 630' EAST OF FORDHAM AVENUE.
ELEV. = 336.93 (USGS DATUM)
ELEVATION DIFFERS FROM RECORD, AND MATCHES THE ELEVATION USED ON THE APPROVED PLANS FOR THE ADJACENT TRACT 6214.

SITE ADDRESS:

SOUTHEAST CORNER OF FOWLER AVENUE AND WELDON AVENUE (NO SITE ADDRESS YET)

PREPARED FOR:

CLOVIS UNIFIED SCHOOL DISTRICT
SCHOOL DISTRICT



LOCATION MAP AND SHEET INDEX MAP

PLAN FEES

	\$ AMOUNT	CASHIER MEMO #	DATE
INITIAL PLAN REVIEW FEE	\$5,650.00	#75984	10-28-2022
BALANCE OF PLAN REVIEW FEE	\$1,743.00	#767074	1-18-2023
INSPECTION FEE	\$14,154.00	#767074	1-18-2023
WET TIE CONNECTION CHARGE E#20221214	\$14,000.00	#767074	1-18-2023

INFRASTRUCTURE DATA

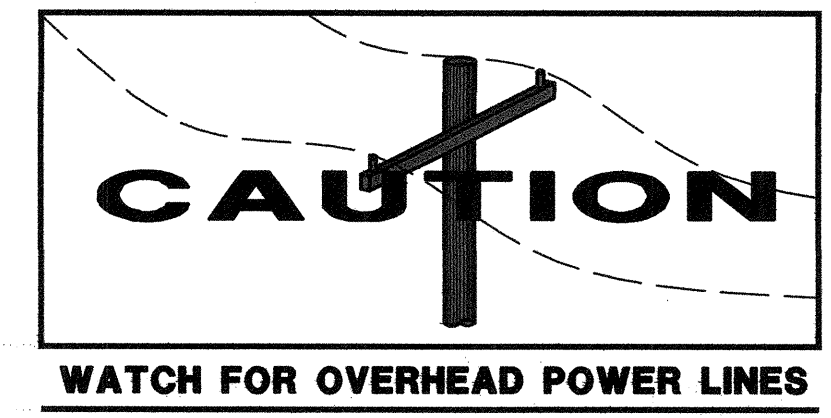
MILES OF WATER MAIN	0.32
MILES OF SEWER MAIN	-
MILES OF ABANDONED WATER MAIN	-
MILES OF ABANDONED SEWER MAIN	-

TOPOGRAPHIC SURVEY NOTE:

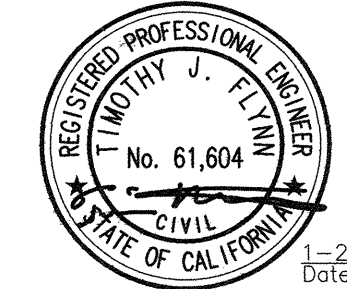
THIS TOPOGRAPHIC SURVEY SHOWN IN THESE PLANS IS DATED JANUARY, 2022 SUPPLEMENTED WITH ADDITIONAL SURVEYING IN AUGUST 2022.

SHEET LIST TABLE

SHEET	SHEET TITLE
1	TITLE, LOCATION MAP, LEGEND AND SHEET INDEX MAP
2	PLAN AND PROFILE - N. FOWLER AVENUE
3	PLAN AND PROFILE - E. MCKINLEY AVENUE



Know what's below. Call before you dig.



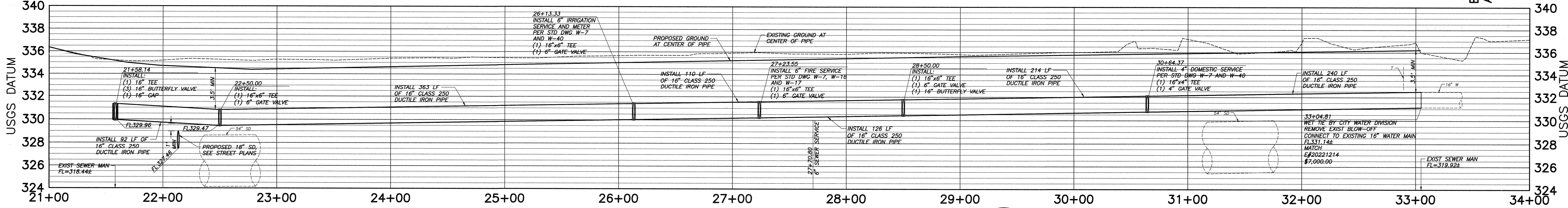
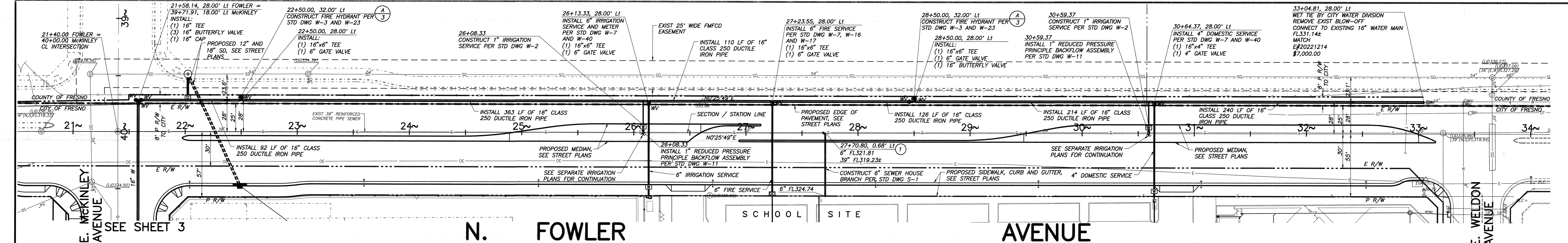
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Tel (559) 326-4400
Fax (559) 326-1500

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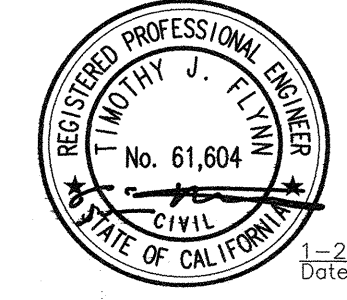
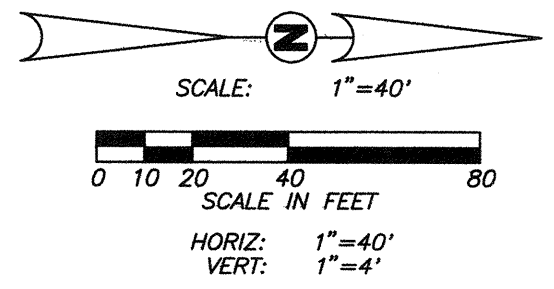
PW FILE NO. 12777
PROJ. I.D. _____
FUND NO. _____
ORG NO. _____
REF. & REV. _____
PLAT # 2367
DPU22-0047

CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
CLOVIS UNIFIED SCHOOL DISTRICT FOWLER-MCKINLEY ELEMENTARY SCHOOL WATER MAIN IMPROVEMENTS TITLE, LOCATION MAP, LEGEND AND SHEET INDEX MAP			
REVIEWED:	CITY ENG.	CITY ENG. <i>APB</i>	
DR. BY: AYV	SHEET NO. 1	OF 3 SHEETS	
CH. BY: <i>APB</i>	DATE: 1-30-23	DATE: 1-30-23	
SCALE: AS NOTED	J5922		

Drawing: PL 221-031 (3) S:\A\Production\Drawings\221312_W\CAD\1.dwg; 1-TITLE LOCATION MAP LEGEND AND SHEET INDEX MAP - BCF.cb
Plot by: Alex Jan 30, 2023 10:13am



NOTE:
 ① CONNECT NEW SEWER HOUSE BRANCH TO EXISTING SEWER MAIN PER STD DWG S-8, METHOD 2 OR 3

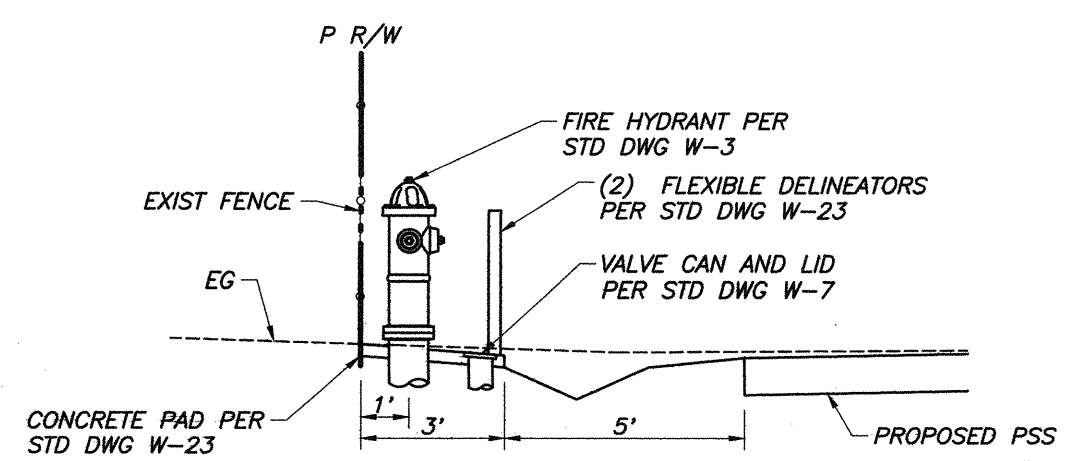
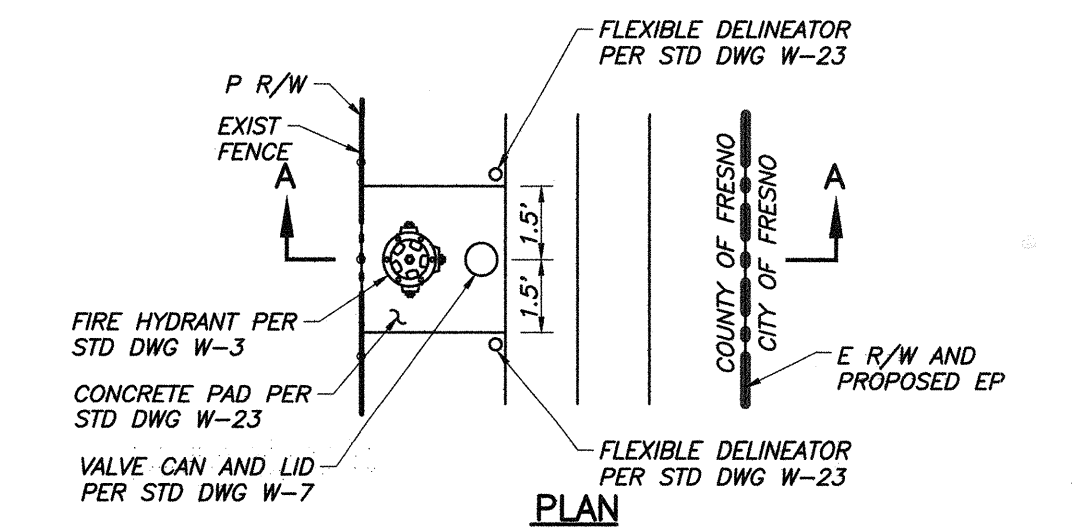
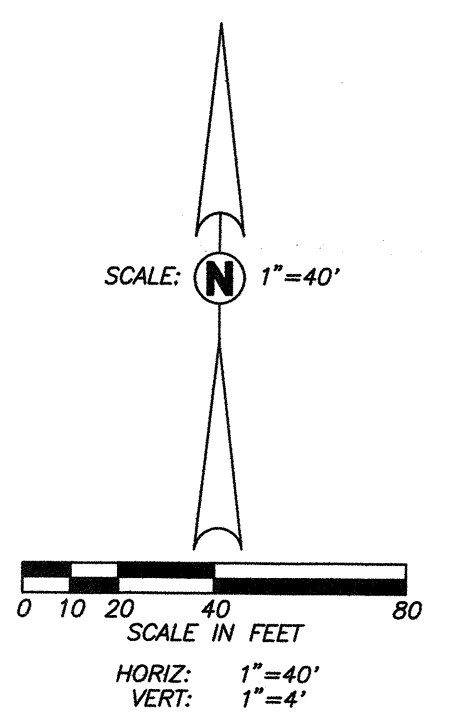
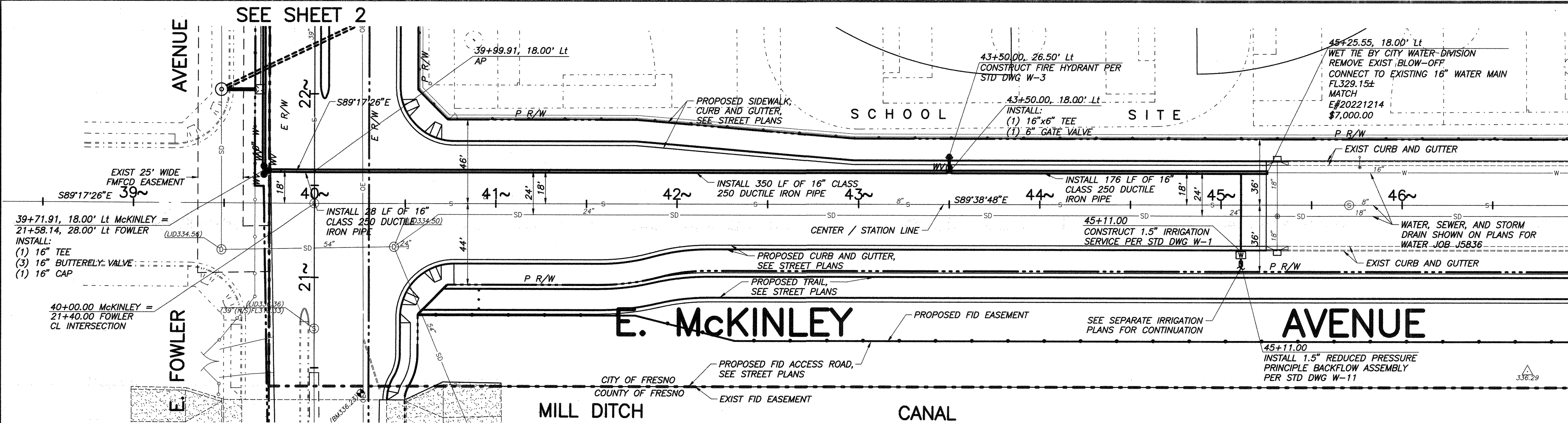


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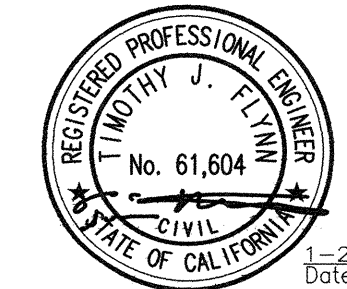
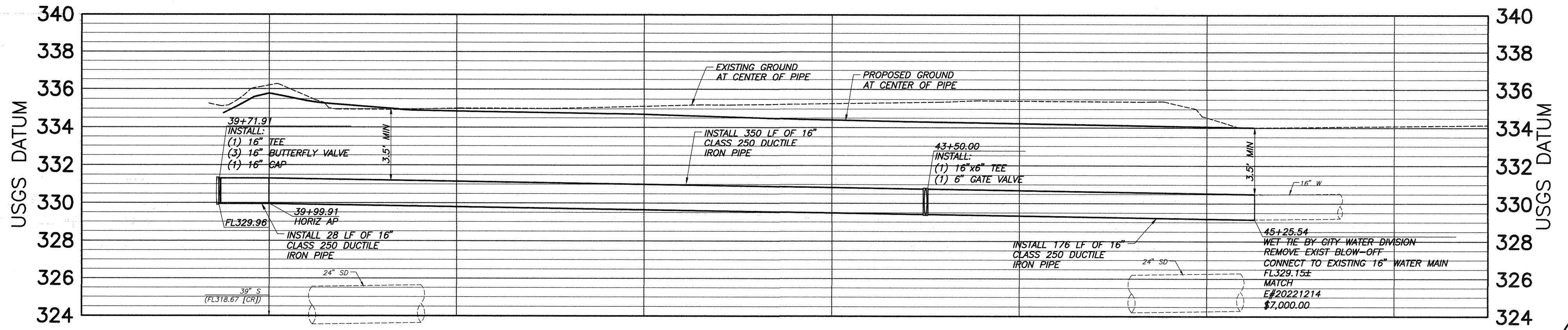
CONSULTANT
 PW FILE NO. 12777
 PROJ. I.D.
 FUND NO.
 ORG NO.
 REF. & REV.
 PLAT # 2367
 DPU22-0047

CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
CLOVIS UNIFIED SCHOOL DISTRICT			
FOWLER-MCKINLEY ELEMENTARY SCHOOL			
WATER MAIN IMPROVEMENTS			
PLAN AND PROFILE - N. FOWLER AVENUE			
REVIEWED:	CITY ENG.	CITY ENG. <i>apf</i>	
DR. BY: <i>AVY</i>	CH. BY: <i>AVY</i>	SHEET NO. 2	OF 3 SHEETS
DATE: 1-30-23	SCALE: AS NOTED	J5922	

Drawing: P:\1-23-2023\151\Production\Drawings\221712_LW_PPO1.dwg; 2-PLAN AND PROFILE N FOWLER AVE - BCF.ctb
 Plot by: Alex Jan 30, 2023 10:13am



A
3
FIRE HYDRANT NEAR FENCE
SCALE: 1" = 4'



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PW FILE NO. 12777
PROJ. I.D. _____
FUND NO. _____
ORG NO. _____
REF. & REV. _____
PLAT # 2367
DPU22-0047

CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
CLOVIS UNIFIED SCHOOL DISTRICT FOWLER-MCKINLEY ELEMENTARY SCHOOL WATER MAIN IMPROVEMENTS			
REVIEWED:	OFFICE ENG. _____	CITY ENG. <i>JB</i>	
DR. BY: AYY	CH. BY: _____	DATE: 1-30-23	SHEET NO. 3 OF 3 SHEETS
DATE: 1-30-23	SCALE: AS NOTED	J5922	

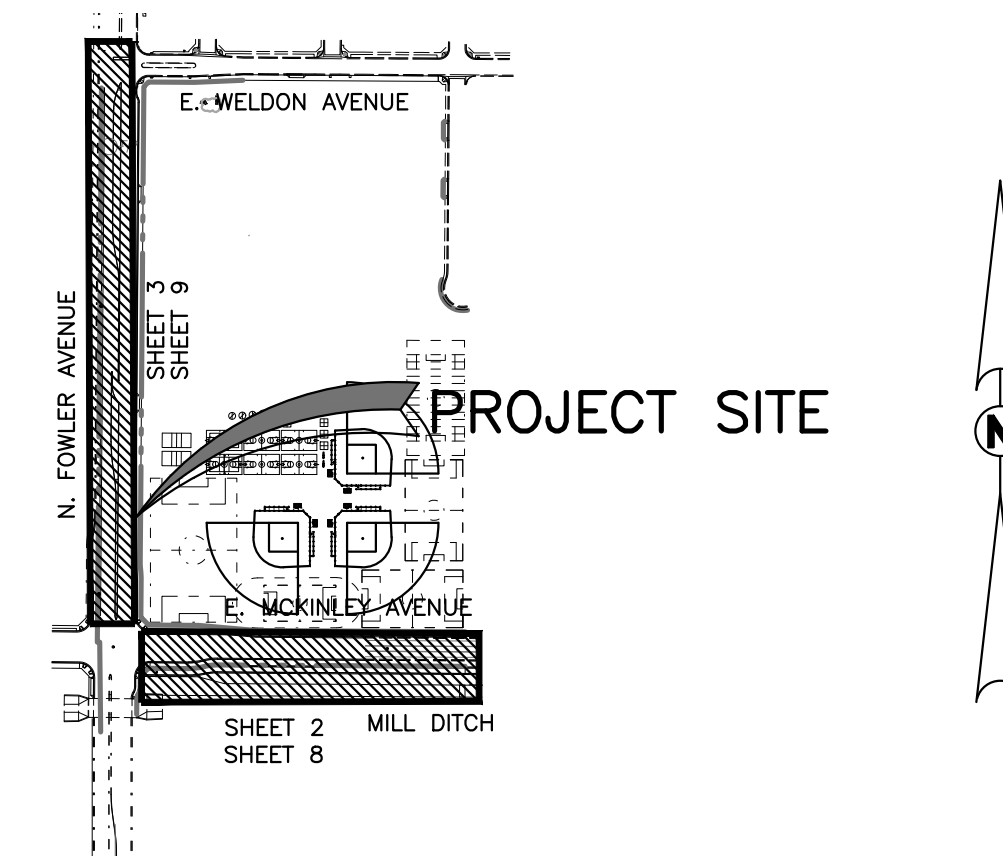
Drawing: PA 221-03129 Site Production Drawings 221313.LW PPO3.dwg; 3-PLAN AND PROFILE E. MCKINLEY AVE - BCF.dwg
Plot On: A3x
Date: 1-30-23

GENERAL NOTES:

- SEE CIVIL ENGINEERS DRAWINGS FOR GRADING AND DRAINAGE INFORMATION NOT SHOWN IN THESE DRAWINGS.
- UPON EXECUTION OF THE CONTRACT, PROVIDE THE LANDSCAPE ARCHITECT AND OWNER WITH A CRITICAL PATH SCHEDULE TO INCLUDE EACH ITEM, LEAD TIME, ORDER AND INSTALLATION DATE FOR SUBSTANTIAL COMPLETION.
- PROVIDE FOR POSITIVE DRAINAGE. NOTIFY LANDSCAPE ARCHITECT IF SITE CONDITIONS ARE OTHERWISE. MAINTAIN FLOWLINES AND DRAINAGE PATTERNS AS INDICATED ON ENGINEER'S GRADING DRAWINGS.
- VERIFY AND STAKE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND AS REQUIRED BY GOVERNING AGENCIES TO BE HELD LIABLE FOR DAMAGES TO EXISTING UTILITIES INCURRED BY INSTALLATION OF THE WORK.
- REPAIR AND REPLACE ANY EXISTING IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION.
- CHECK DIMENSIONS, FRAMING CONDITIONS AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS WITH FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT AND THE OWNER.
- VERIFY PROPERTY LINES PRIOR TO COMMENCING WORK. NO CONSTRUCTION ITEM, INCLUDING FOOTINGS, SHALL EXTEND BEYOND PROPERTY LINE.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUB-CONTRACTORS AS REQUIRED TO ACCOMPLISH THE WORK. PIPING, CONDUIT AND SLEEVES SHALL BE SET IN PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.
- THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISH STRUCTURE, CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, BRACING, TEMPORARY SUPPORTS, AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OBSERVATION VISITS TO THE JOB SITE BY THE LANDSCAPE ARCHITECT DO NOT INCLUDE INSPECTION OF CONSTRUCTION METHODS AND SAFETY CONDITIONS AT THE WORK SITE. THESE VISITS SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
- GIVE LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS NOTICE FOR REQUIRED OR REQUESTED JOB SITE VISIT.
- FORMS AND ALIGNMENT OF PAVING SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO POURING.
- FOR SUBMITTALS, SAMPLES AND SHOP DRAWINGS REQUESTED, SUBMIT IN TRIPPLICATE TO LANDSCAPE ARCHITECT WITH ONE COPY TO THE OWNER UNLESS OTHERWISE SPECIFIED.
- PROPOSED SURFACES SHALL MEET EXISTING SURFACES WITH SMOOTH AND CONTINUOUS TRANSITION AND FLUSH ALONG ENTIRE EDGE.
- DIMENSIONS ARE FROM OUTSIDE FACE OF THE BUILDING, PAVING AND WALLS UNLESS OTHERWISE NOTED. ANGLES ARE 90 OR 45 UNLESS OTHERWISE
- COORDINATE AND COOPERATE WITH CONTRACTORS OF ATTACHED, ADJOINING AND INTERFACING WORK OF OTHER TRADES.
- MATERIALS AND WORKMANSHIP, CONFORM TO LATEST UNIFORM BUILDING CODES AND APPLICABLE GOVERNING AGENCY CODES AND ORDINANCES. NO PART OF CONTRACT DOCUMENTS TO BE IN VIOLATION OF CODES. IF DISCREPANCIES EXIST, NOTIFY LANDSCAPE ARCHITECT AND OWNER.

CONSTRUCTION NOTES:

- CONCRETE, MINIMUM COMPRESSIVE STRENGTH OF 2500 P.S.I. AT TWENTY EIGHT (28) DAYS.
- CEMENT: CONFORM TO A.S.T.M. C150 AND AGGREGATE SHALL CONFORM TO A.S.T.M. C33.
- CONCRETE SLUMP: MAXIMUM SLUMP 4 INCHES, EXCEPT FOR FOUNDATIONS WHICH MAY HAVE A 5 INCH MAXIMUM SLUMP.
- CONSTRUCTION TO BE PLUMB AND TRUE UNLESS OTHERWISE NOTED OR INDICATED.
- REBAR AND FOOTING SIZES, IF SHOWN, ARE FOR BIDDING PURPOSES ONLY. VERIFY WITH OWNER'S STRUCTURAL OR SOILS ENGINEER THE NEED FOR ALL REINFORCING, BASE MATERIAL, PRE SATURATION AND OTHER STRUCTURAL REQUIREMENTS.
- PAVING AND CONCRETE CONTRACTORS ARE TO COORDINATE AND COOPERATE WITH THE ELECTRICAL, DRAINAGE AND IRRIGATION SYSTEMS INSTALLATION FOR REQUIRED SLEEVES, PIPES, AND CONDUITS UNDER
- PRIOR TO LAYOUT OF UNDERGROUND IMPROVEMENTS, REFER TO PLANTING PLANS FOR TREE LOCATIONS. STAKE TREES AND OUTLINE SPECIFIED BOX SIZE. ROUT UNDERGROUND DRAINAGE, ELECTRICAL, POOL AND IRRIGATION PIPING OUTSIDE EXCAVATION REQUIRED FOR TREES.
- ALLOW AT LEAST 6-8 WEEKS TIME FOR PLACEMENT OF ORDER UNTIL DELIVERY ON ANY MANUFACTURED ITEM UNLESS OTHERWISE NOTED.
- REFER TO FINISH GRADING/DRAINAGE PLANS FOR VERTICAL DIFFERENCES, GRADES AND DRAINAGE SYSTEMS.
- WRITTEN DIMENSIONS AND DETAILS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- VERIFY AND BE RESPONSIBLE FOR DIMENSIONS AND CONDITIONS AT THE JOB SITE. REPORT DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE OWNER AND THE LANDSCAPE ARCHITECT.
- CONFORM TO LATEST UNIFORM BUILDING CODE AND APPLICABLE GOVERNING AGENCY CODES AND ORDINANCES. NO PART OF THE CONTRACT DOCUMENTS ARE INTENDED TO BE IN VIOLATION OF CODES. IF DISCREPANCIES EXIST, NOTIFY LANDSCAPE ARCHITECT AND OWNER.
- COORDINATE AND COOPERATE WITH CONTRACTORS OF ATTACHED, ADJOINING AND INTERFACING WORK OF OTHER TRADES.



LOCATION MAP

NOT TO SCALE

SHEET LIST TABLE		
SHEET	DRAWING NO	SHEET TITLE
1	15-C-XXXXX	COVER SHEET
2	15-C-XXXXX	E. MCKINLEY AVE IRRIGATION PLANS
3	15-C-XXXXX	N. FOWLER AVE IRRIGATION PLAN & LEGEND
4	15-C-XXXXX	IRRIGATION DETAILS
5	15-C-XXXXX	IRRIGATION DETAILS
6	15-C-XXXXX	IRRIGATION DETAILS
7	15-C-XXXXX	IRRIGATION DETAILS
8	15-C-XXXXX	IRRIGATION CALCULATIONS
9	15-C-XXXXX	E. MCKINLEY AVE PLANTING PLANS
10	15-C-XXXXX	N. FOWLER AVE PLANTING PLAN
11	15-C-XXXXX	PLANTING DETAILS & NOTES

UTILITY NOTE:

UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

SITE BENCHMARK:

BRASS CAP ON NORTH SIDE OF BRIDGE HEADWALL, EAST SIDE OF FOWLER AT MCKINLEY ALIGNMENT.
ELEV. = 336.23 (USGS DATUM)

BENCHMARK:

CHISELED SQUARE ON CURB, NORTH SIDE OF CLINTON AVENUE, 630' EAST OF FORDHAM AVENUE.
ELEV. = 336.93 (USGS DATUM)

MAPPING NOTE:

THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED JANUARY, 2022.

REVIEWED BY:

_____	DATE _____
FRESNO METROPOLITAN FLOOD CONTROL DISTRICT	
_____	DATE _____
CITY OF FRESNO TRAFFIC ENGINEERING	
_____	DATE _____
FRESNO IRRIGATION DISTRICT	

INSPECTION FEES:

(C.M. No. _____) \$ _____

PLAN REVIEW FEE:

PLAN REVIEW FEE \$ _____

SUBMITTAL FEE \$ _____

(C.M. No. _____) \$ _____

AMOUNT DUE:

(C.M. No. _____) \$ _____

SITE ADDRESS:

SOUTHEAST CORNER OF FOWLER AVENUE AND WELDON AVENUE (NO SITE ADDRESS YET)

PREPARED FOR:

CLOVIS UNIFIED SCHOOL DISTRICT



CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE PERFORMANCE OF WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, ON A CONTINUOUS BASIS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS BLAIR, CHURCH & FLYNN CONSULTING ENGINEERS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF BLAIR, CHURCH & FLYNN CONSULTING ENGINEERS.



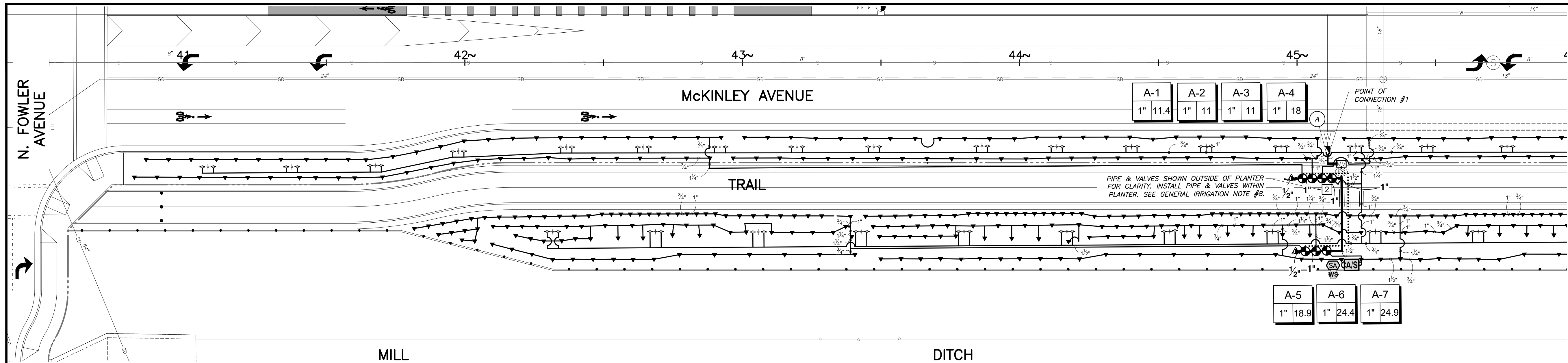
CONSULTANT
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481 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

PW FILE NO. 12777	PROJ. I.D. _____	CITY OF FRESNO	DEPARTMENT OF PUBLIC WORKS
FUND NO. _____	ORG. NO. _____		
REF. & REV.	CLOVIS UNIFIED SCHOOL DISTRICT FOWLER-MCKINLEY ELEMENTARY SCHOOL OFF-SITE COVER SHEET		REVIEWED: OFFICE ENG. _____ CITY ENG. _____ DR. BY: CMH SHEET NO. 1 CH. BY: DWB OF 11 SHEETS DATE: 11/09/22 SCALE: AS NOTED 15-C-

FOR BIDDING PURPOSES ONLY

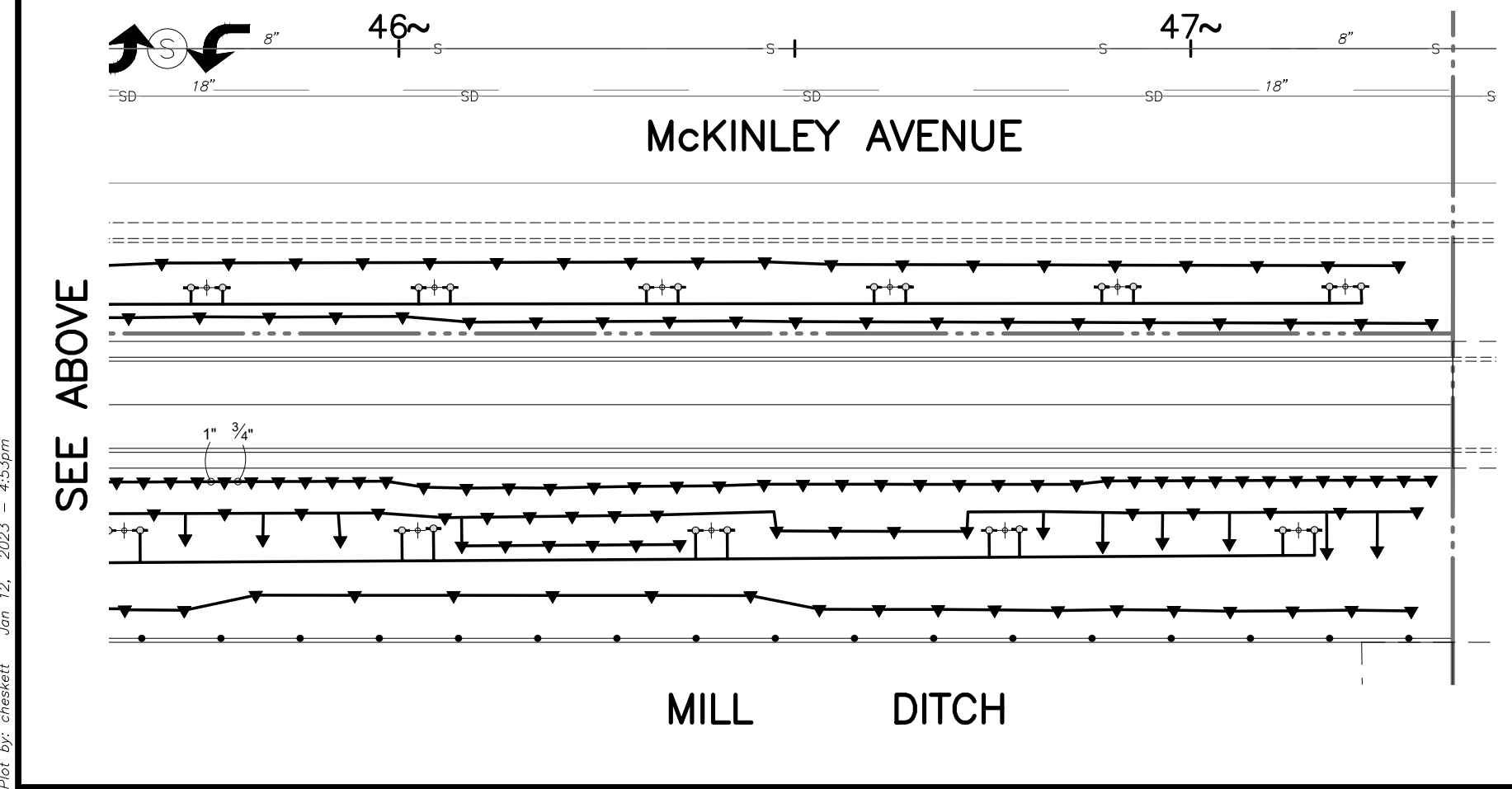
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Date: 11/09/22 10:23:43 AM

Drawing: \\bcs\dfs\Projects\221-0312\GIS\production\drawings\221312_GS_IR.dwg; 2 E. MCKINLEY AVE IRRIGATION PLANS - BCF.ctb
Date: 11/09/22



- CONTRACTOR SPECIAL IRRIGATION NOTES:**
1. THE CONTRACTOR SHALL PERFORM AN OPERATIONAL ASSESSMENT OF THE EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
 2. PRIOR TO THE START OF ANY SHRUB, GROUND COVER, AND/OR TURFGRASS PLANTING, AN OPERATIONAL REVIEW OF THE IRRIGATION SYSTEM SHALL BE PERFORMED FOR PROPER COVERAGE AND SOIL MOISTURE DEPTH BY THE OWNER'S REPRESENTATIVE. ALL CORRECTIONS AND/OR ADJUSTMENTS SHALL BE COMPLETED AND VERIFIED BY THE OWNER'S REPRESENTATIVE BEFORE GROUND LEVEL PLANTING MAY COMMENCE.
 3. THE ORIGINAL IRRIGATION SYSTEM OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
 4. THE AS-BUILT RECORD DRAWING SET AND OTHER CLOSE-OUT ITEMS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.
 5. UNLESS NOTED OTHERWISE, SALVAGE AND RETURN TO THE OWNER ALL IRRIGATION VALVES, HEADS AND OTHER EQUIPMENT COMPONENTS REMOVED AS PART OF THE WORK. SALVAGED COMPONENTS SHALL BE CLEAN AND IN WORKING CONDITION UNLESS NOTED AS NON-OPERATIONAL DURING THE OPERATIONAL ASSESSMENT.

- CERTIFICATE OF COMPLETION REQUIREMENTS:**
- PER MWELO SECTION 492.9, UPON COMPLETION OF THE LANDSCAPE PLANTING AND IRRIGATION SYSTEM, AND AS A CONDITION OF FINAL ACCEPTANCE AND/OR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE LICENSED LANDSCAPE CONTRACTOR SHALL SUBMIT TO THE CITY AND TO THE OWNER THE FOLLOWING ITEMS IN A FORM ACCEPTABLE TO THE CITY:
- PROJECT INFORMATION AND CONTACT INFORMATION FOR THE OWNER AND APPLICANT.
 - A CERTIFICATION THAT THE INSTALLATION COMPLIES WITH THE APPROVED DOCUMENTATION PACKAGE.
 - IRRIGATION SCHEDULING PARAMETERS USED IN PROGRAMMING THE CONTROLLER.
 - A PLANTING AND IRRIGATION MAINTENANCE SCHEDULE.
 - AN IRRIGATION AUDIT REPORT PREPARED BY A CERTIFIED LANDSCAPE IRRIGATION AUDITOR.
 - A HORTICULTURAL SOILS ANALYSIS REPORT AND RECOMMENDATIONS IF NOT SUBMITTED EARLIER WITH THE LANDSCAPE DOCUMENTATION PACKAGE.
 - DOCUMENTATION IN THE FORM OF MATERIAL RECEIPTS, INVOICES AND/OR OTHER DOCUMENTS THAT THE RECOMMENDATIONS OF THE HORTICULTURAL SOILS ANALYSIS REPORT AS MODIFIED AND APPROVED BY THE LANDSCAPE ARCHITECT HAVE BEEN IMPLEMENTED AND INSTALLED.

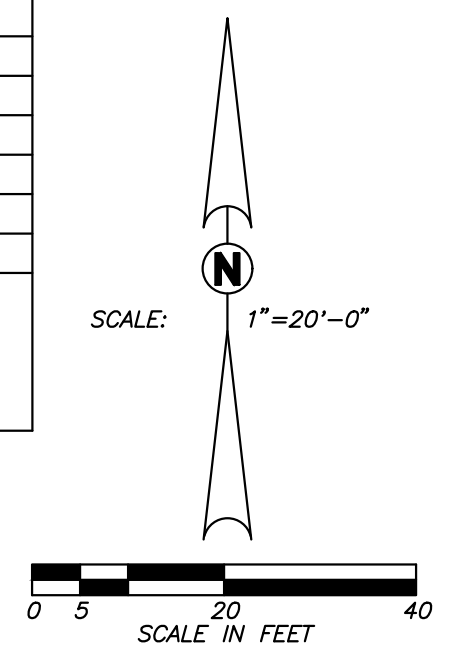


IRRIGATION SYSTEM OBSERVATION LOG

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH		DATE
		PRINT NAME	SIGNATURE	
IR-1	EXISTING SYSTEM OPERATION & PRESSURE CHECK			
IR-2	PIPING/WIRE SLEEVES UNDER PAVEMENT			
IR-3	MAIN LINE INSTALLATION & PRESSURE TEST			
IR-4	VALVE INSTALLATIONS			
IR-5	IRRIGATION COVERAGE PRIOR TO PLANTING			
IR-6	CONTROL EQUIPMENT INSTALLATION			
IR-7	BOOSTER PUMP INSTALLATION & START-UP (MANUF.)	N/A	N/A	
IR-8	FINAL SYSTEM OPERATION REVIEW			

NOTE: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET. WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.

FOR BIDDING PURPOSES ONLY



POINT OF CONNECTION #1

WATER SERVICE SIZE/MAX FLOW: 1" / CONTRACTOR SHALL VERIFY

WATER METER SIZE/75% MAX FLOW: CONTRACTOR SHALL VERIFY

MAXIMUM STATION FLOW: 24.9 GPM

IRRIGATION BACKFLOW SIZE: 1"

IRRIGATION WATER SOURCE: DOMESTIC, CITY OF FRESNO

MINIMUM EXISTING MINIMUM STATIC PRESSURE H/L: 36.0 PSI
SEE CONTRACTOR SPECIAL IRRIGATION NOTE #1

MINIMUM OPERATING PRESSURE: 30.0 PSI BUBBLER

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

DAVID W. BRILEY, RLA 2787

SEE SHEET 8 FOR IRRIGATION CALCULATIONS

SEE SHEET 3 FOR IRRIGATION LEGEND

SEE SHEET 4-7 FOR IRRIGATION NOTES AND DETAILS



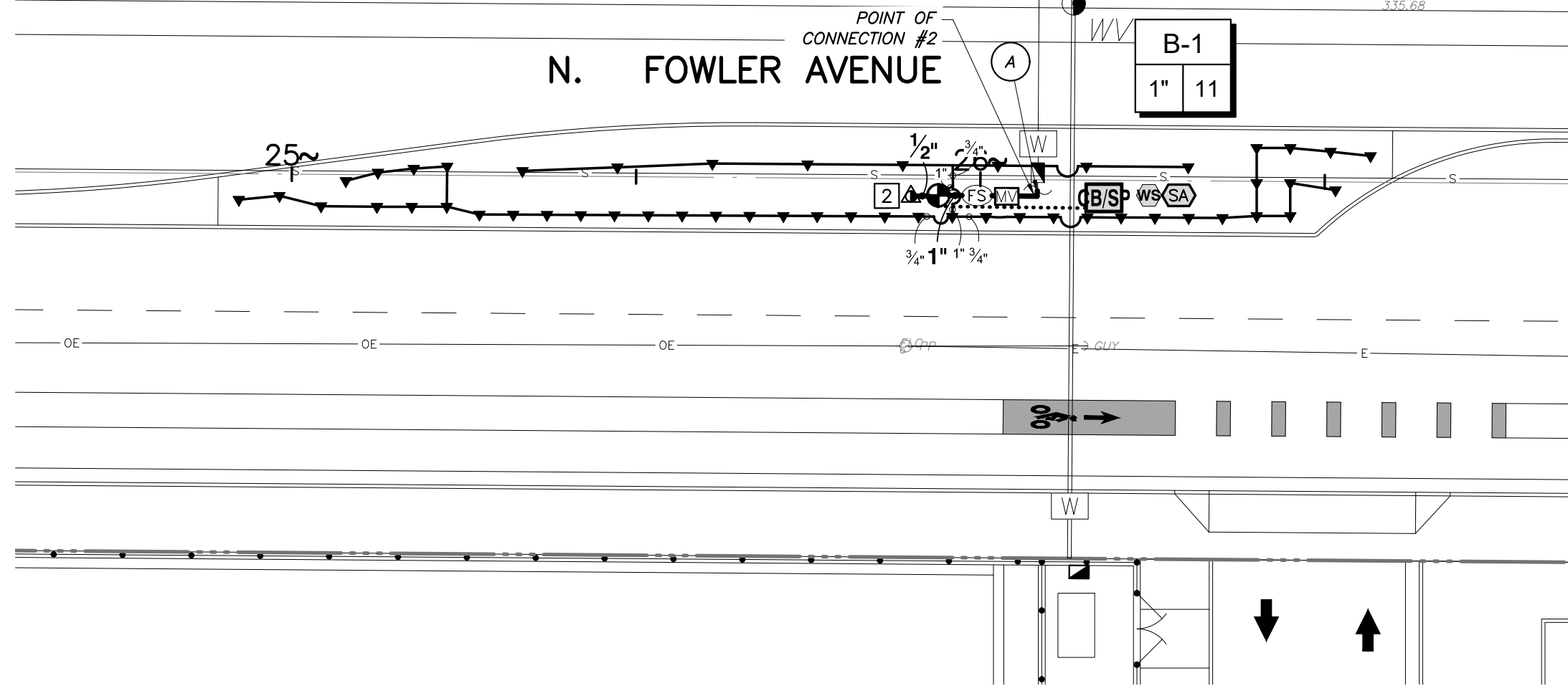
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CONSULTING ENGINEERS

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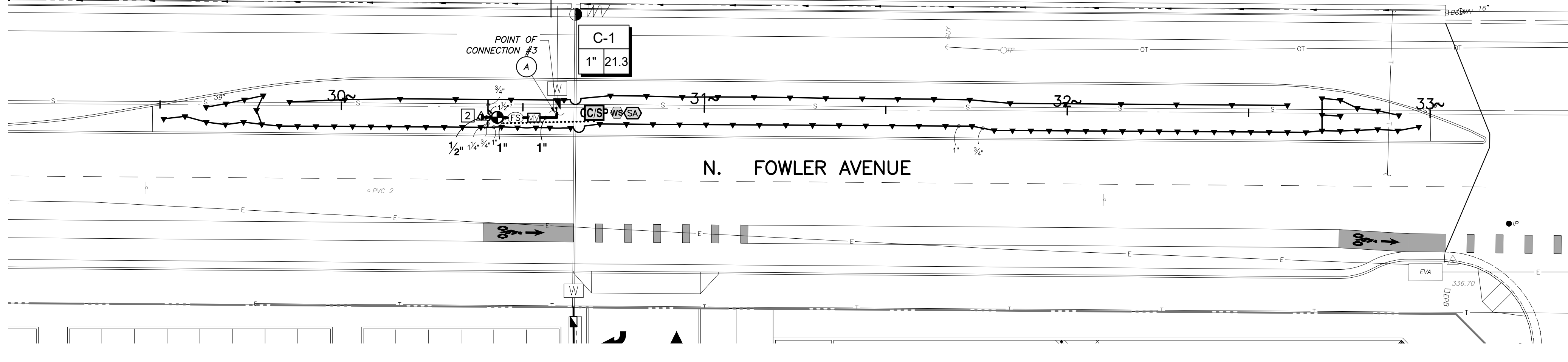
PW FILE NO. 12777
PROJ. I.D. _____
FUND NO. _____
ORG. NO. _____
REF. & REV. _____

CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
CLOVIS UNIFIED SCHOOL DISTRICT FOWLER-MCKINLEY ELEMENTARY SCHOOL OFF-SITE		E. MCKINLEY AVE IRRIGATION PLANS	
REVIEWED:	CITY ENG. _____	DR. BY: CMH	SHEET NO. 2
CH. BY: DWB	OF 11 SHEETS	DATE: 11/09/22	SCALE: AS NOTED

N. FOWLER AVENUE



N. FOWLER AVENUE



IRRIGATION LEGEND

POINT OF CONNECTION #2

WATER SERVICE SIZE/MAX FLOW: 1" / CONTRACTOR SHALL VERIFY
 WATER METER SIZE/75% MAX FLOW: CONTRACTOR SHALL VERIFY
 MAXIMUM STATION FLOW: 11.0 GPM
 IRRIGATION BACKFLOW SIZE: 1"
 IRRIGATION WATER SOURCE: DOMESTIC, CITY OF FRESNO
 MINIMUM EXISTING MINIMUM STATIC PRESSURE H/L: 31.9 PSI / CONTRACTOR SHALL VERIFY SEE CONTRACTOR SPECIAL IRRIGATION NOTE #1
 MINIMUM OPERATING PRESSURE: 30.0 PSI BUBBLER

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
▼	SHRUB BUBBLER TORO 570Z-4P-COM-10-SBH-PC3	30		0.22	4'	B/6
↔	TREE ROOT ZONE BUBBLER 1401 RAIN BIRD RWS-M-B-C	360	30	0.25	3'	A/6
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL				
⊙	REMOTE CONTROL VALVE IRRITROL 700-B-DCL	E/5				
▲	QUICK COUPLER RAIN BIRD 44-LRC	F/5				
MV	MASTER VALVE NORMALLY CLOSED 1" BUCKNER-SUPERIOR 3000	D/6				
MV	MASTER VALVE NORMALLY CLOSED 2" BUCKNER-SUPERIOR 3000	D/6				
CA/SP	8-STATION CONTROLLER DUAL-SIDED PEDESTAL ENCLOSURE SITEONE GREENTECH MODEL CA4-IR1-8/SOLAR-250, WITH AN IRRITROL MC-08-E (8 STATIONS) CONTROLLER AND A SOLAR POWER ASSEMBLY 250.	C/5				
CB/SP	8-STATION CONTROLLER DUAL-SIDED PEDESTAL ENCLOSURE SITEONE GREENTECH MODEL CA4-IR1-8/SOLAR-250, WITH AN IRRITROL MC-08-E (8 STATIONS) CONTROLLER AND A SOLAR POWER ASSEMBLY 250.	C/5				
CC/SP	8-STATION CONTROLLER DUAL-SIDED PEDESTAL ENCLOSURE SITEONE GREENTECH MODEL CA4-IR1-8/SOLAR-250, WITH AN IRRITROL MC-08-E (8 STATIONS) CONTROLLER AND A SOLAR POWER ASSEMBLY 250.	C/5				
WS	WEATHER SENSOR IRRITROL CL-100-WIRELESS WEATHER SENSING SYSTEM. 100-RECEIVE AND TRANSMITTER KIT. OUTDOOR					

WS	SYSTEM 100-RECEIVE AND TRANSMITTER KIT. OUTDOOR SENSOR. AND RECEIVER ATTACHES TO IRRITROL CONTROLLER. COMPATIBLE WITH RAIN DIAL-R, TOTAL CONTROL-R, KD2, AND MC-E CONTROLLERS. MONITORS WEATHER DATA FOR WATERING ADJUSTMENTS AND PROVIDES RAIN-FREEZE SHUT-DOWN. MOUNT WEATHER SENSOR TO SOLAR POLE 10'-0" HIGH.	B/7
FS	FLOW SENSOR CST FSI-T10	F/6
SA	SOLAR ARRAY SITEONE GREENTECH SOLAR 250 SERIES. PROVIDE A GALVANIZED SCHEDULE 40 STEEL PIPE POLE WITH CAP. MINIMUM 15' LONG FOR SOLAR PANEL MOUNT	A/7
M1	WATER METER 1-1/2"	
—	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE.	D/4
---	PIPE SLEEVE: PVC SCHEDULE 40 TWICE PIPE SIZE	E/4
---	CONTROL WIRE SLEEVE	E/4
---	CONTROL WIRE PLUS ONE (1) COMMON WIRE	A/5
#	VALVE NUMBER	
#"	VALVE FLOW (GPM)	
#	VALVE SIZE	
#	NUMBER OF SPARE CONTROL WIRE PLUS ONE (1) SPARE COMMON WIRE. PROVIDE A 10 FOOT LOOP IN VALVE BOX	

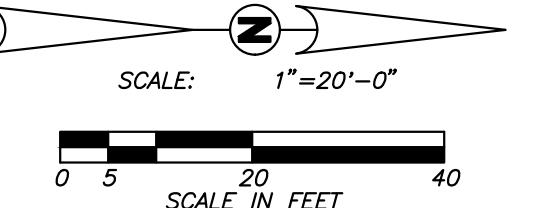
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POINT OF CONNECTION #3

WATER SERVICE SIZE/MAX FLOW: 1" / CONTRACTOR SHALL VERIFY
 WATER METER SIZE/75% MAX FLOW: CONTRACTOR SHALL VERIFY
 MAXIMUM STATION FLOW: 21.3 GPM
 IRRIGATION BACKFLOW SIZE: 1"
 IRRIGATION WATER SOURCE: DOMESTIC, CITY OF FRESNO
 MINIMUM EXISTING MINIMUM STATIC PRESSURE H/L: 36.2 PSI / CONTRACTOR SHALL VERIFY SEE CONTRACTOR SPECIAL IRRIGATION NOTE #1
 MINIMUM OPERATING PRESSURE: 30.0 PSI BUBBLER

SEE SHEET 8 FOR IRRIGATION CALCULATIONS

SEE SHEET 4-7 FOR IRRIGATION NOTES AND DETAILS



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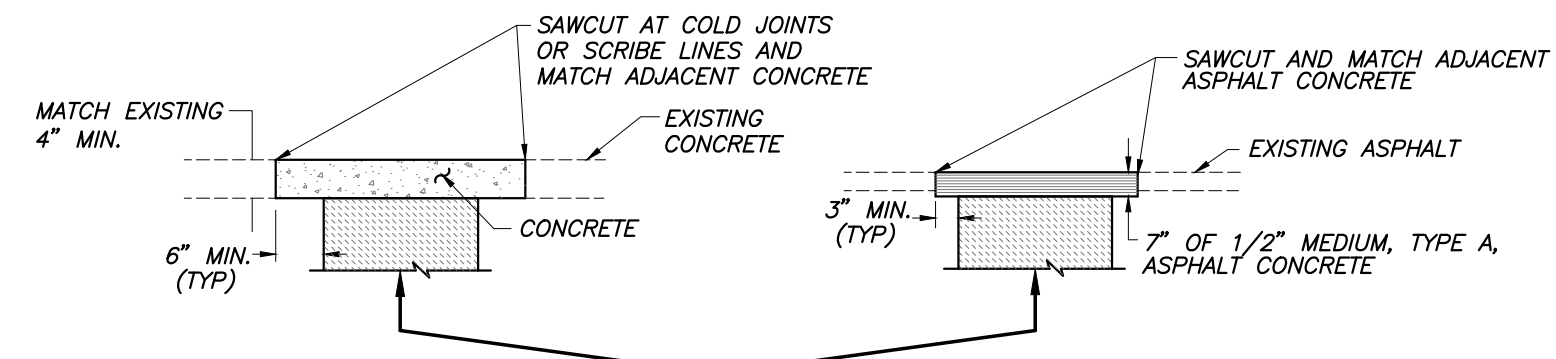
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 PROJ. I.D. _____
 FUND NO. _____
 ORG NO. _____
 REF. & REV. _____

CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
CLOVIS UNIFIED SCHOOL DISTRICT		REVIEWED: _____ CITY ENG. _____	
FOWLER-MCKINLEY ELEMENTARY SCHOOL OFF-SITE		DR. BY: CMH	SHEET NO. 3
N. FOWLER AVE IRRIG. PLAN & LEGEND		CH. BY: DWB	OF 11 SHEETS
		DATE: 11/09/22	
		SCALE: AS NOTED	15-C-

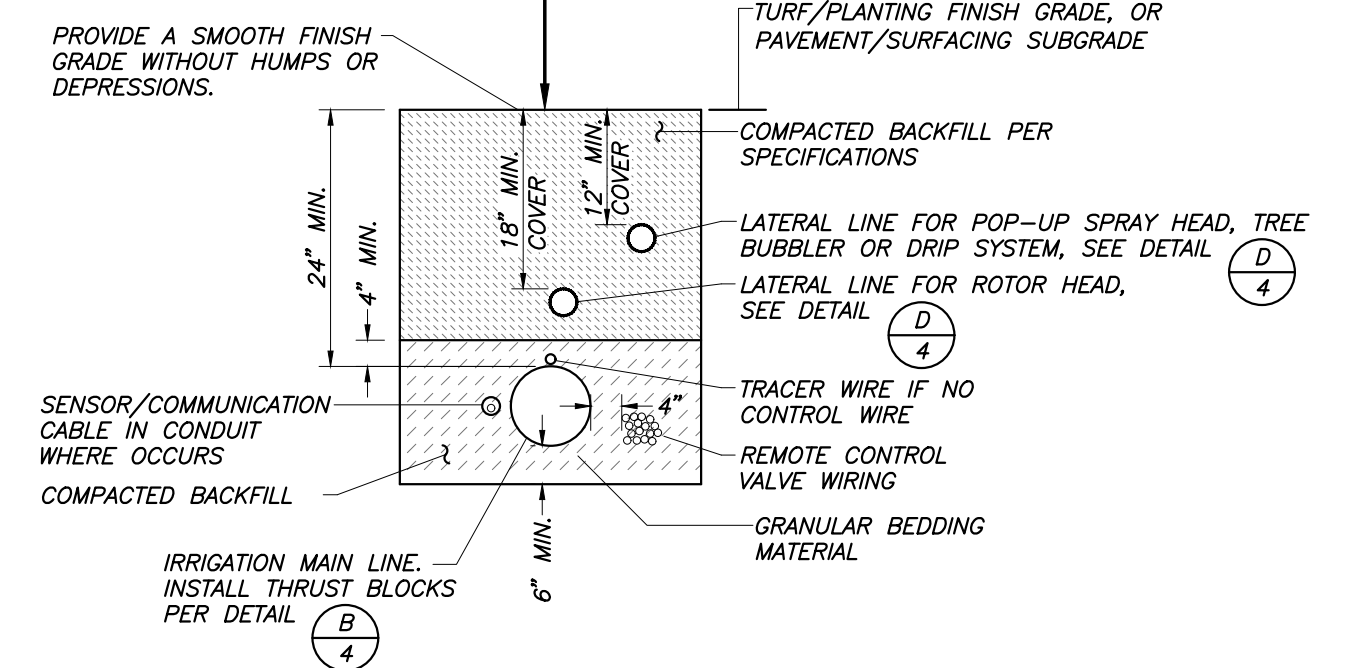
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**CITY OF FRESNO PUBLIC WORKS DEPARTMENT
GENERAL IRRIGATION NOTES:**

- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF FRESNO INSPECTOR. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE OWNER.
- SPICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/WATERPROOF MARKERS AT ALL SPLICES, VALVE MANIFOLDS AND AT CONTROLLER.
- INSTALL VALVE BOXES 4' FROM AND PERPENDICULAR TO PATH EDGE, CURB, LAWN, BUILDINGS OR LANDSCAPE FEATURES. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 6" APART. SHORT SIDE OF THE VALVE BOX SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC. FLUSH VALVES SHALL BE PLACED 2' FROM WALK.
- CONTRACTOR IS RESPONSIBLE FOR THE BACKFLOW UNIT TO BE TESTED AND CERTIFIED BY THE CITY OF FRESNO WATER DIVISION (621-5300).
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON THE PLANS OR AS NECESSARY TO COMPLETE THE PROJECT.
- CONCRETE THRUST BLOCKS SHALL BE PROVIDED ON ALL MAINLINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES TO HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.
- ALL MAINLINE PIPES SHALL BE PRESSURE TESTED PER STANDARD IRRIGATION SPECIFICATIONS WITHOUT THE VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. MINIMUM OF 5 PSI LOSS ALLOWED PER 4 HOUR TEST PERIOD AS INSPECTED BY THE CITY'S CONSTRUCTION MANAGEMENT DIVISION. IF ANY LEAKS DEVELOP, THE REPAIRS ARE TO BE MADE AND TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE INSPECTOR. WHEN THE PIPE IS PROVEN WATERTIGHT AND ONLY THEN MAY THE LINE BE BACKFILLED.
- THE INSTALLATION OF IRRIGATION AND RELATED WORK SHALL COMPLY WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS, SECTION 25. SPECIFICATIONS ARE AVAILABLE AT CITY HALL, 2600 FRESNO STREET, ENGINEERING SERVICES, 4TH FLOOR OR ON-LINE AT WWW.FRESNO.GOV/GOVERNMENT/DEPARTMENTDIRECTORY/PUBLICWORKS/DEVELOPERDOORWAY/TECHNICAL+LIBRARY/STANDARDSPECIFICATIONSANDDRAWINGS. TO SETUP A PRE-CONSTRUCTION MEETING, CALL 559.621-5600.

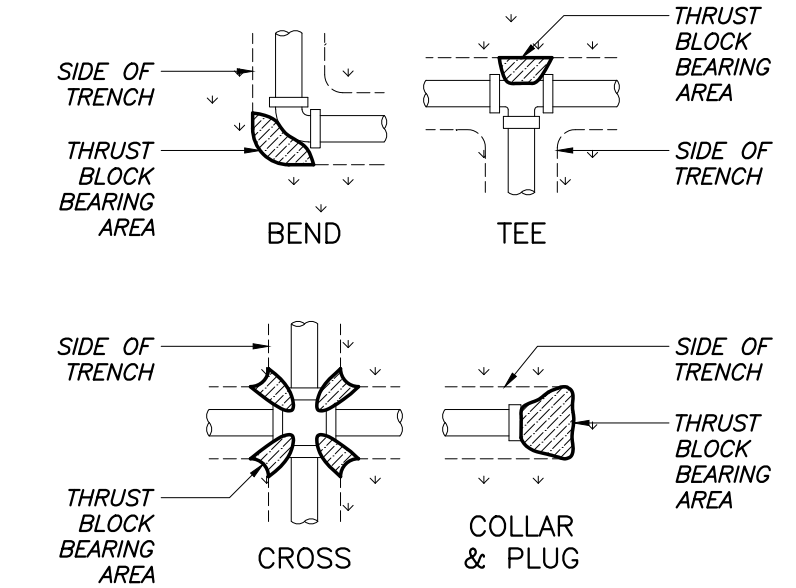


TRENCH RESURFACING IN CONCRETE AREA
TRENCH RESURFACING IN ASPHALT AREA



TYPICAL TRENCH SHOWN IN PLANTING AREA

A
IRRIGATION TRENCH BACKFILL
NOT TO SCALE

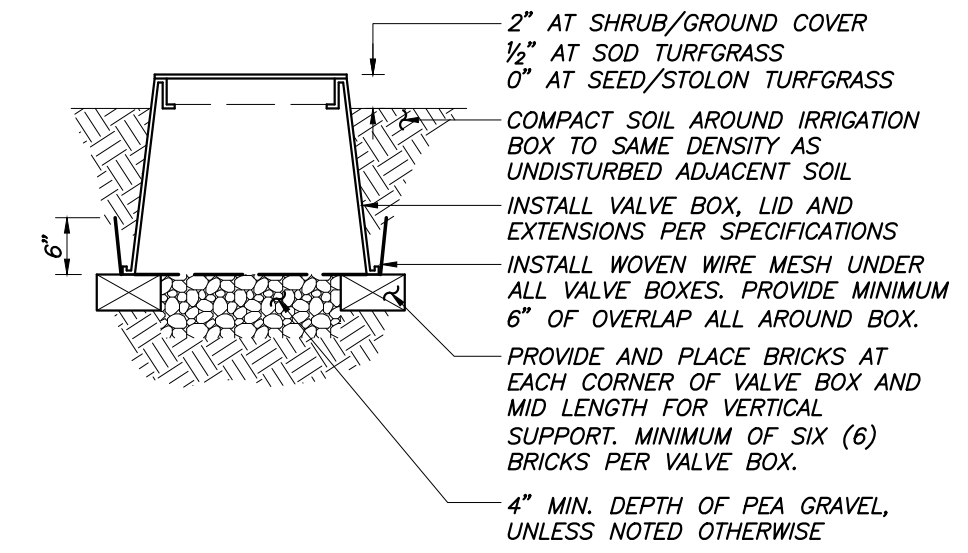


NOTE: CONCRETE PER SPECIFICATIONS. THRUST BLOCKS NOT REQUIRED WITH LESS THAN 2" MAIN LINE

PIPE DIAMETER	TABLE OF BEARING AREAS REQUIRED (IN SQUARE FEET)				
	≤ 4"	6"	8"	10"	12"
CROSS, TEE, 90° BEND, PLUG, FIRE HYDRANT	1	3	5	8	11
45° BEND	1	2	3	4	6
22-1/2° BEND	0.5	1	2	2	3
11-1/4° BEND	0	0	1	1	2
GATE VALVE (IN-LINE)	0	1	2.5	4	9

B
CONCRETE THRUST BLOCKS
NOT TO SCALE

NOTE: PROVIDE A TRAFFIC RATED CONCRETE BOX AND LID FOR ANY BOX LOCATED IN HARDSCAPE PAVEMENT AND SET FLUSH TO FINISHED SURFACE. PROVIDE A 6"X6" CONCRETE COLLAR AROUND THE BOX IF LOCATED IN ASPHALTIC CONCRETE.

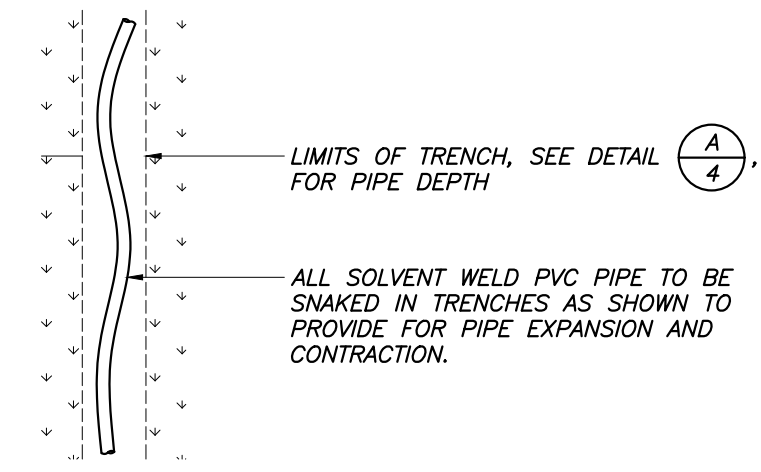


C
IRRIGATION VALVE BOX
NOT TO SCALE

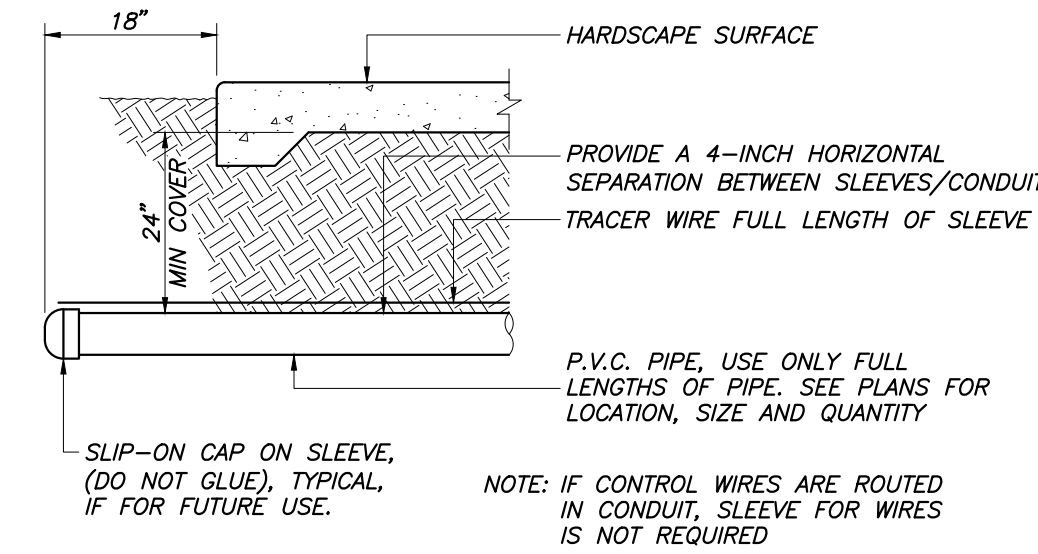
CONDUIT/SLEEVE FOR CONTROL WIRE

CONDUIT/SLEEVE SIZE	QTY. 14 GA. WIRE
1"	8 OR LESS
1-1/4"	15
1-1/2"	20
2"	32
2-1/2"	45
3"	70
4"	120

NOTE: SLEEVE FOR PIPE IS 2X THE PIPE DIAMETER



D
SOLVENT WELD PIPE
NOT TO SCALE



E
IRRIGATION SLEEVE/CONDUIT
NOT TO SCALE

FOR BIDDING PURPOSES ONLY

SEE SHEET 3 FOR IRRIGATION LEGEND

SEE SHEET 8 FOR IRRIGATION CALCULATIONS



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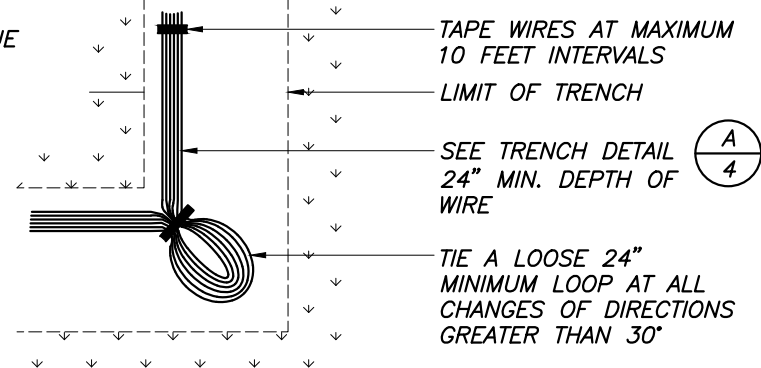
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PROJ. I.D. _____
FUND NO. _____
ORG NO. _____
REF. & REV. _____

CITY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
CLOVIS UNIFIED SCHOOL DISTRICT
FOWLER-MCKINLEY ELEMENTARY SCHOOL
OFF-SITE
IRRIGATION DETAILS

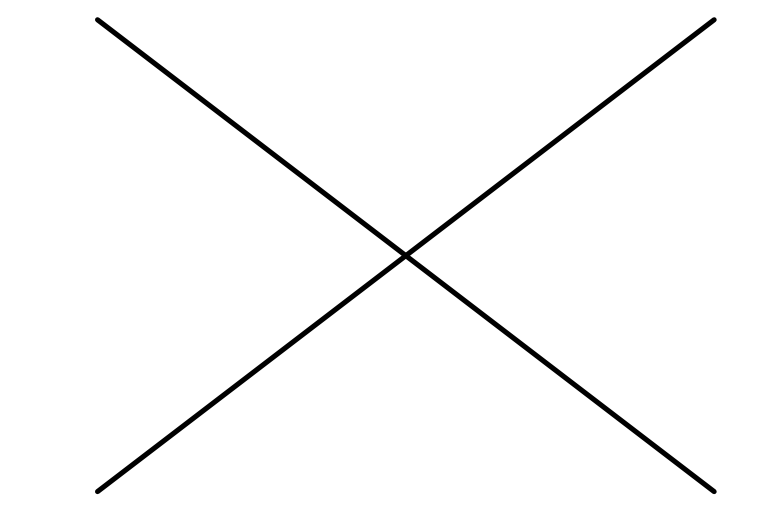
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OFFICE ENG. _____
DR. BY: CMH OF SHEET NO. 4
CH. BY: DWB OF 11 SHEETS
DATE: 11/09/22
SCALE: AS NOTED 15-C-

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User: dbriley

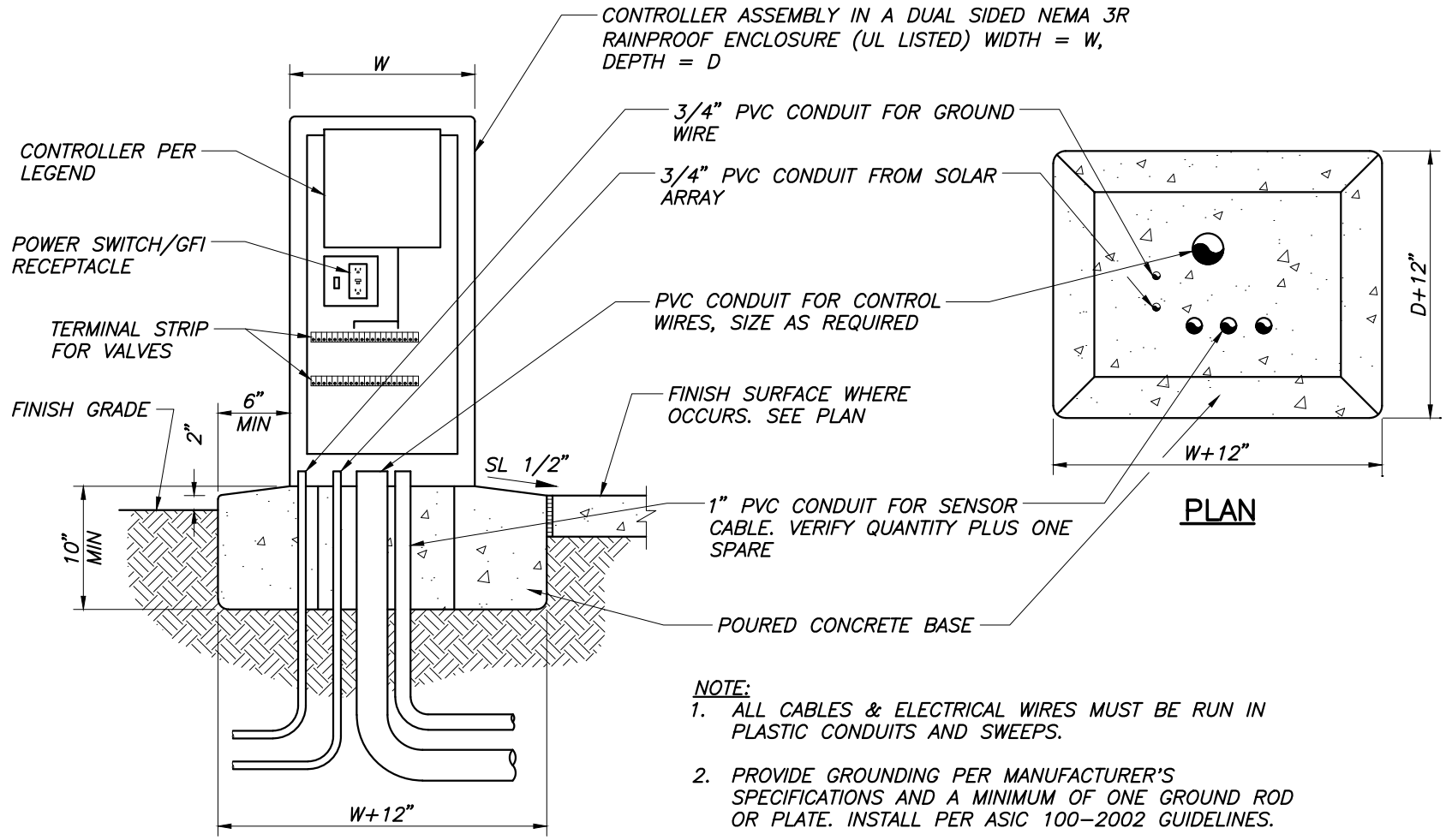
- NOTES:**
1. WIRES UNDER PAVEMENT OR WALKS SHALL BE INSTALLED WITHIN A CONDUIT WHICH HAS BEEN PLACED BY BORING, JACKING OR DRILLING. CONDUIT TO BE PVC SCH 40 TYPE II PIPE. WIRES SHALL NOT BE TAPED TOGETHER INSIDE THE CONDUIT.
 2. NO SPLICES ARE ALLOWED BETWEEN POINTS OF CONNECTIONS.
 3. A VALVE BOX MUST BE PROVIDED AT ALL UNDERGROUND SPLICE CONNECTIONS.
 4. HOT - RED
COMMON - WHITE
SPARE HOT - BLACK
SPARE COMMON - BLUE
TRACER WIRE - GREEN



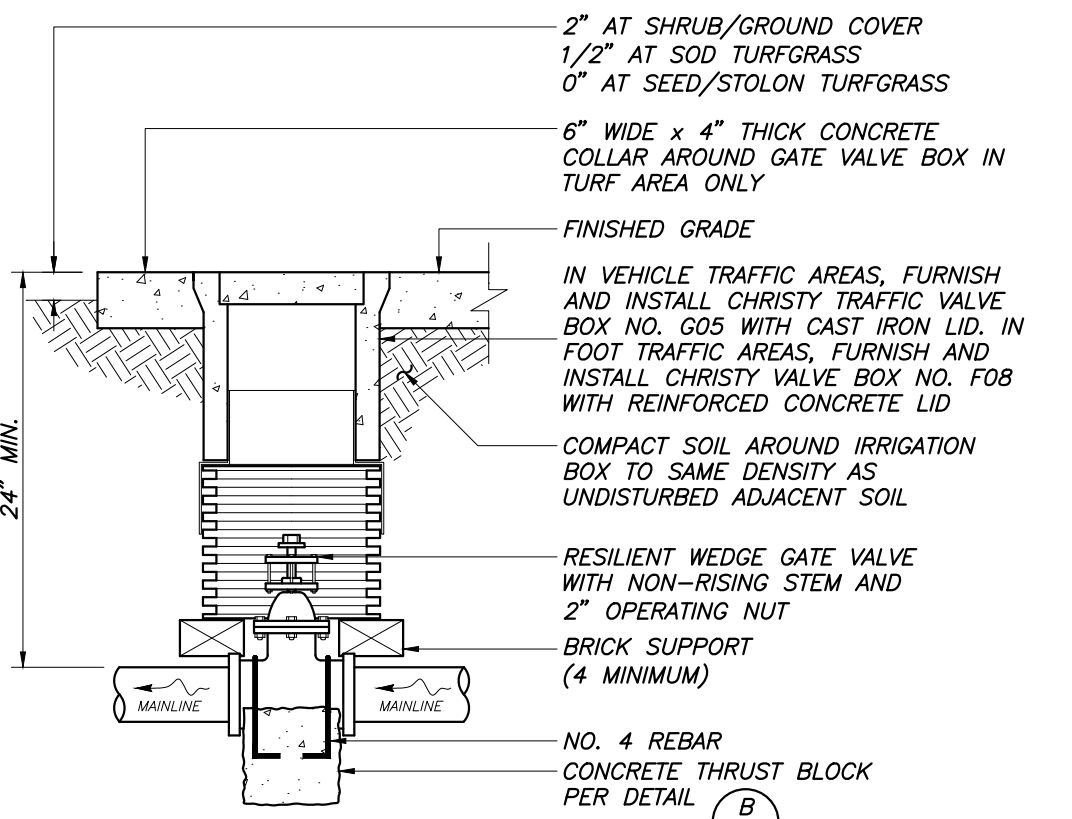
A
5 IRRIGATION WIRE
NOT TO SCALE



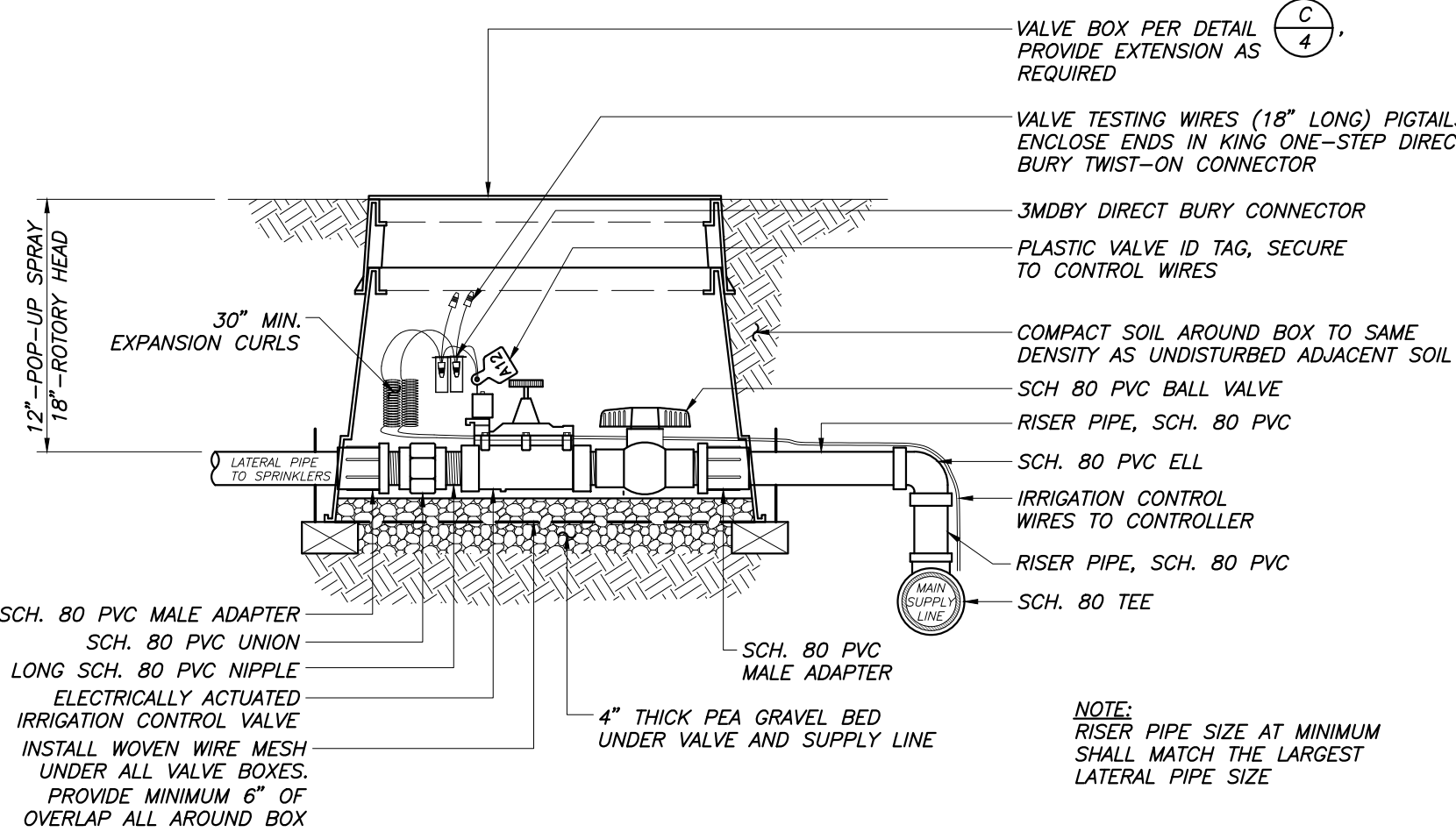
B
5 NOT USED



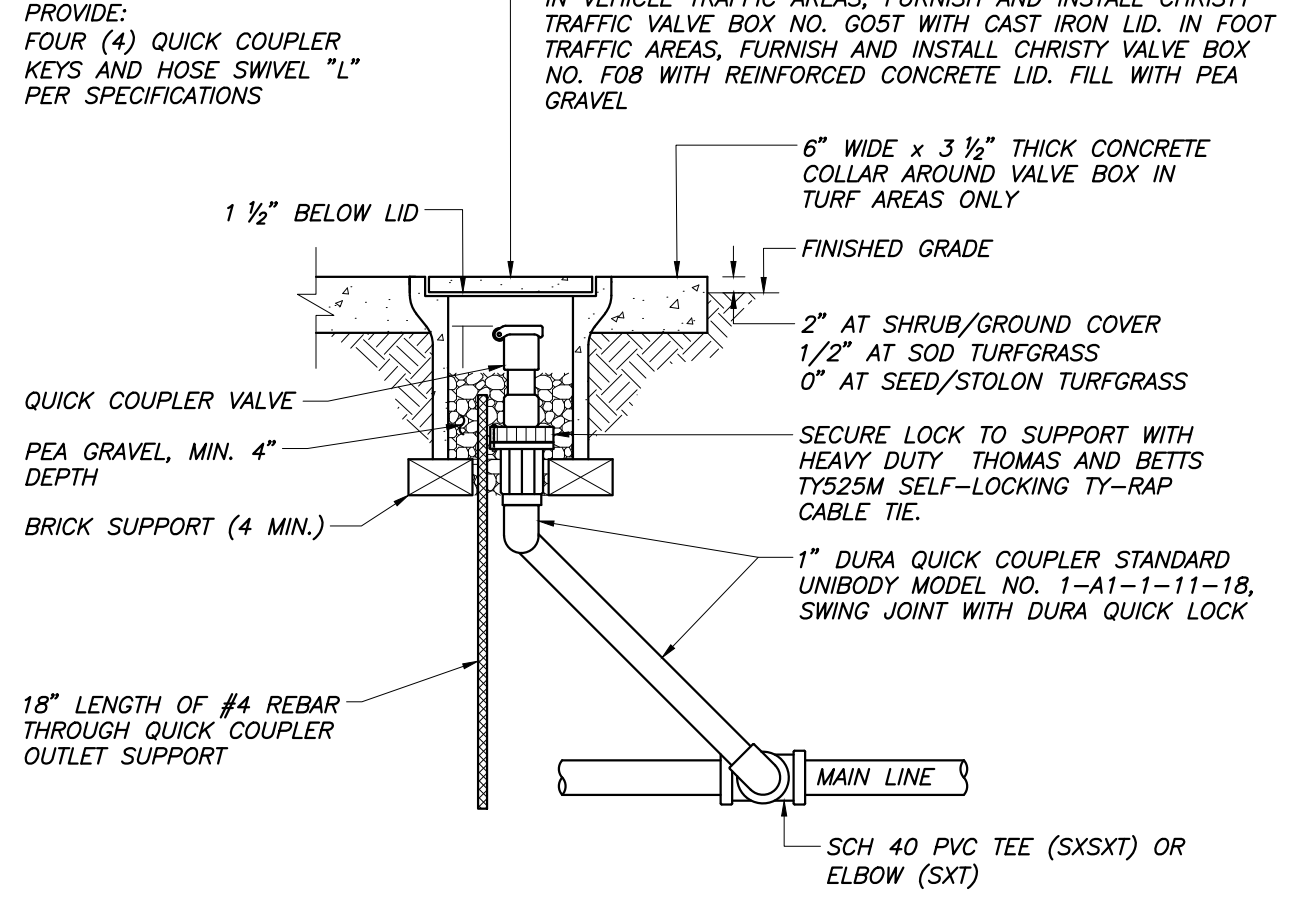
C
5 PEDESTAL CONTROLLER ASSEMBLY
NOT TO SCALE



D
5 2" AND LARGER GATE VALVE
NOT TO SCALE



E
5 REMOTE CONTROL VALVE WITH BALL VALVE - GLOBE
NOT TO SCALE



F
5 QUICK COUPLER VALVE
NOT TO SCALE

FOR BIDDING PURPOSES ONLY

SEE SHEET 3 FOR IRRIGATION LEGEND

SEE SHEET 8 FOR IRRIGATION CALCULATIONS



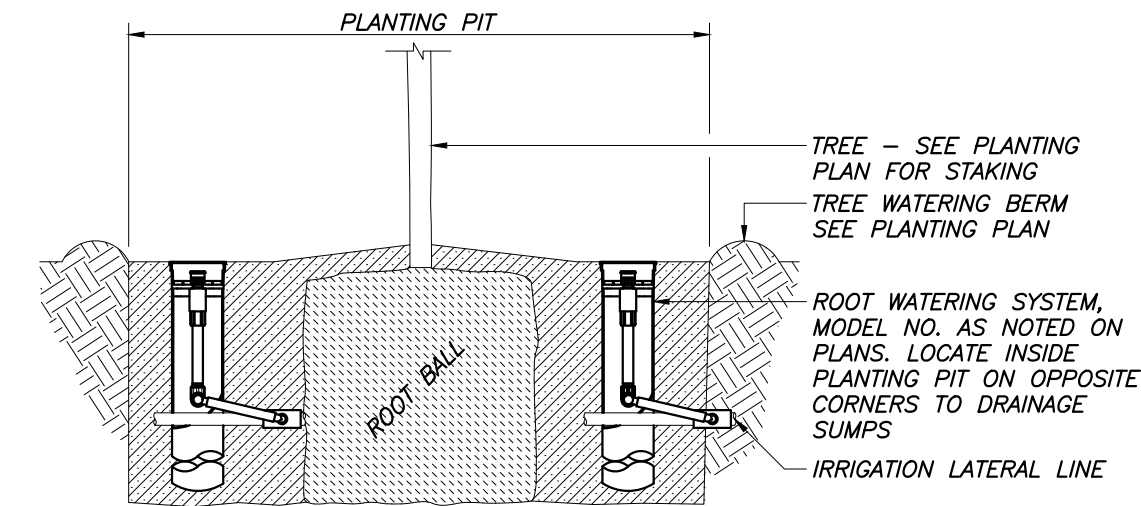
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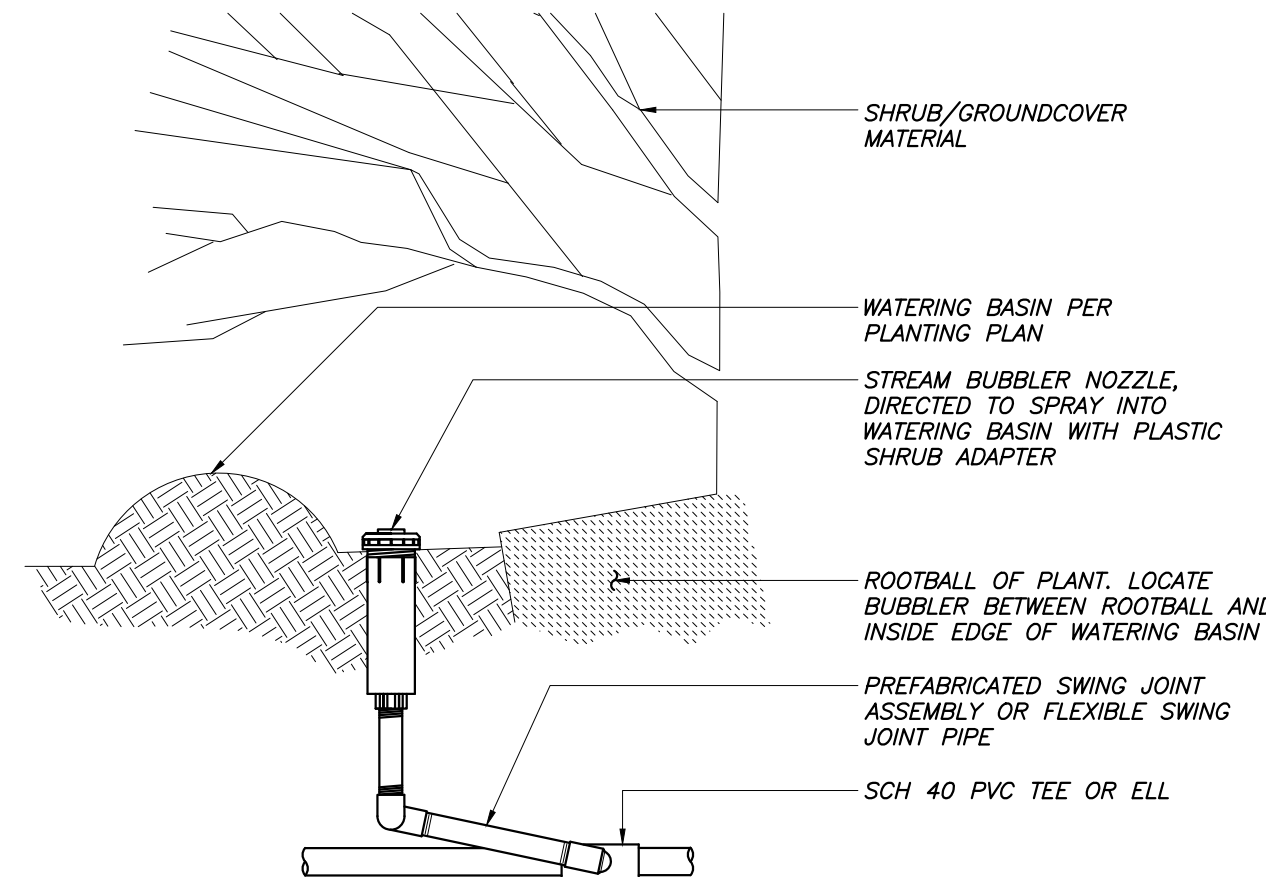
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FUND NO. _____
ORG NO. _____
REF. & REV. _____

CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
CLOVIS UNIFIED SCHOOL DISTRICT		FOWLER-MCKINLEY ELEMENTARY SCHOOL	
IRRIGATION DETAILS			
REVIEWED: _____	CITY ENG. _____	SHEET NO. 5	
DR. BY: CMH	OF 11 SHEETS		
CH. BY: DWB	DATE: 11/09/22		
SCALE: AS NOTED	15-C-		

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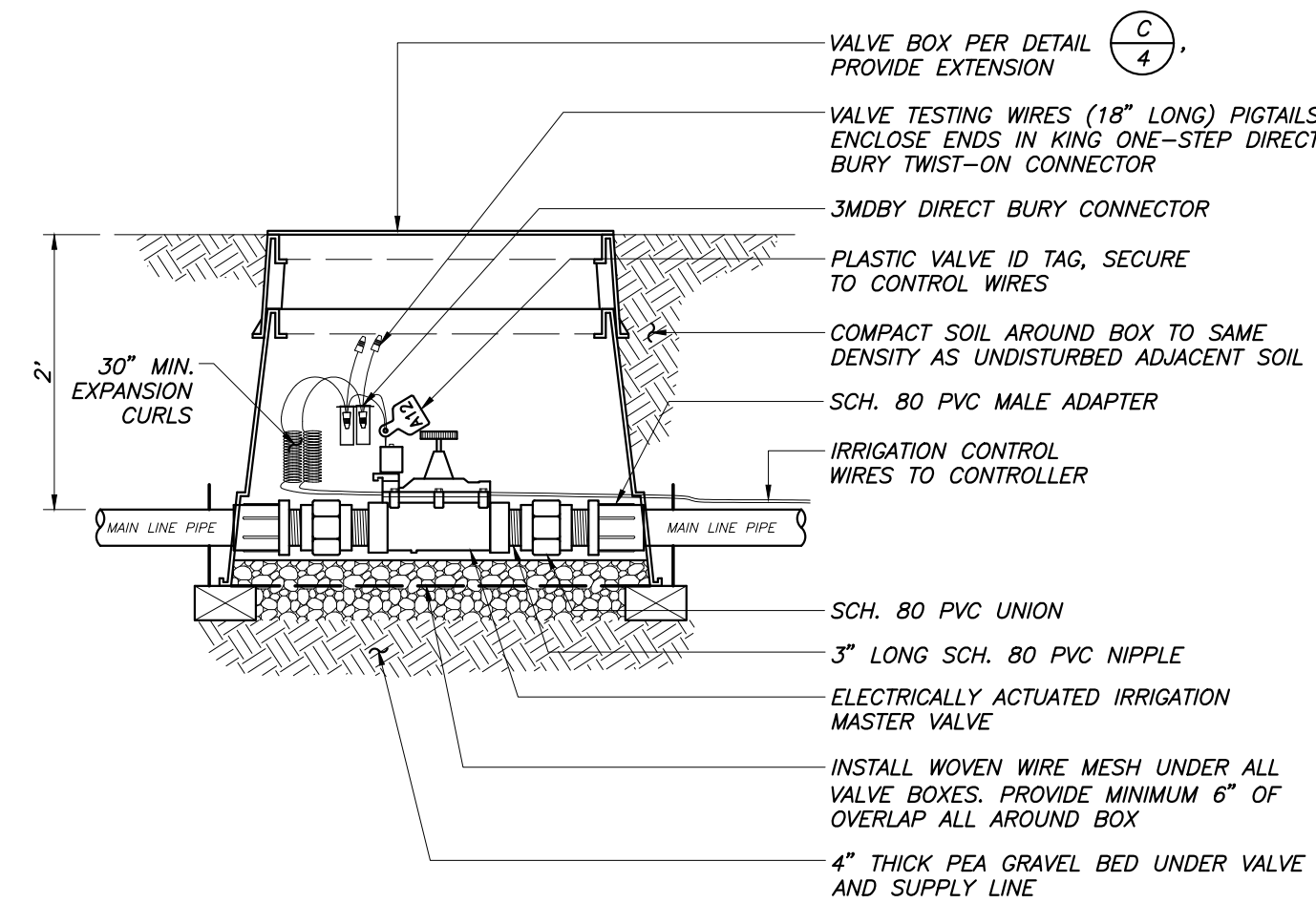


A
6 **ROOT WATERING SYSTEM**
NOT TO SCALE



B
6 **SHRUB BUBBLER (BASIN-TYPE)**
NOT TO SCALE

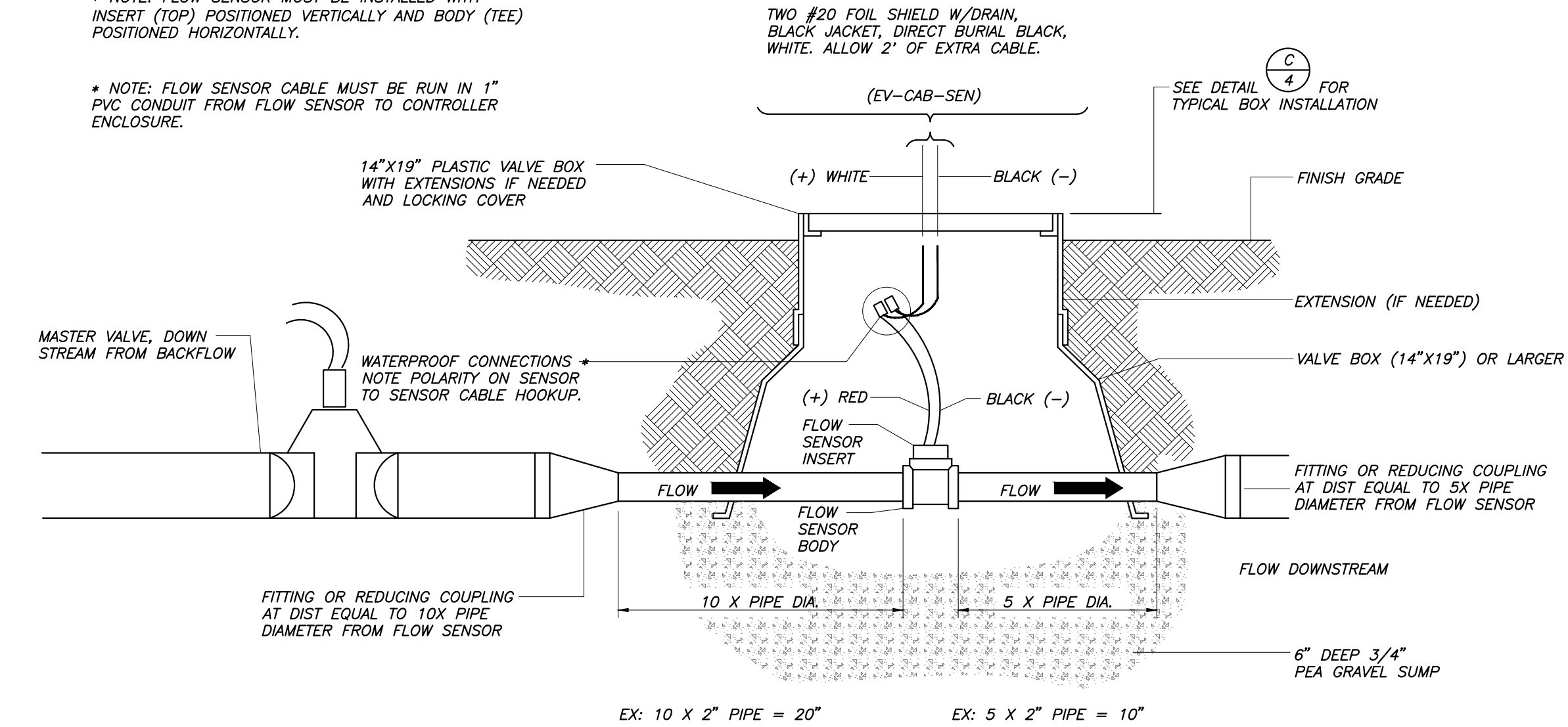
C
6 **NOT USED**



D
6 **MASTER VALVE**
NOT TO SCALE

E
6 **NOT USED**

* NOTE: FLOW SENSOR MUST BE INSTALLED WITH INSERT (TOP) POSITIONED VERTICALLY AND BODY (TEE) POSITIONED HORIZONTALLY.
* NOTE: FLOW SENSOR CABLE MUST BE RUN IN 1\"/>



F
6 **FLOW SENSOR AND MASTER VALVE**
NOT TO SCALE

FOR BIDDING PURPOSES ONLY

SEE SHEET 3 FOR IRRIGATION LEGEND

SEE SHEET 8 FOR IRRIGATION CALCULATIONS



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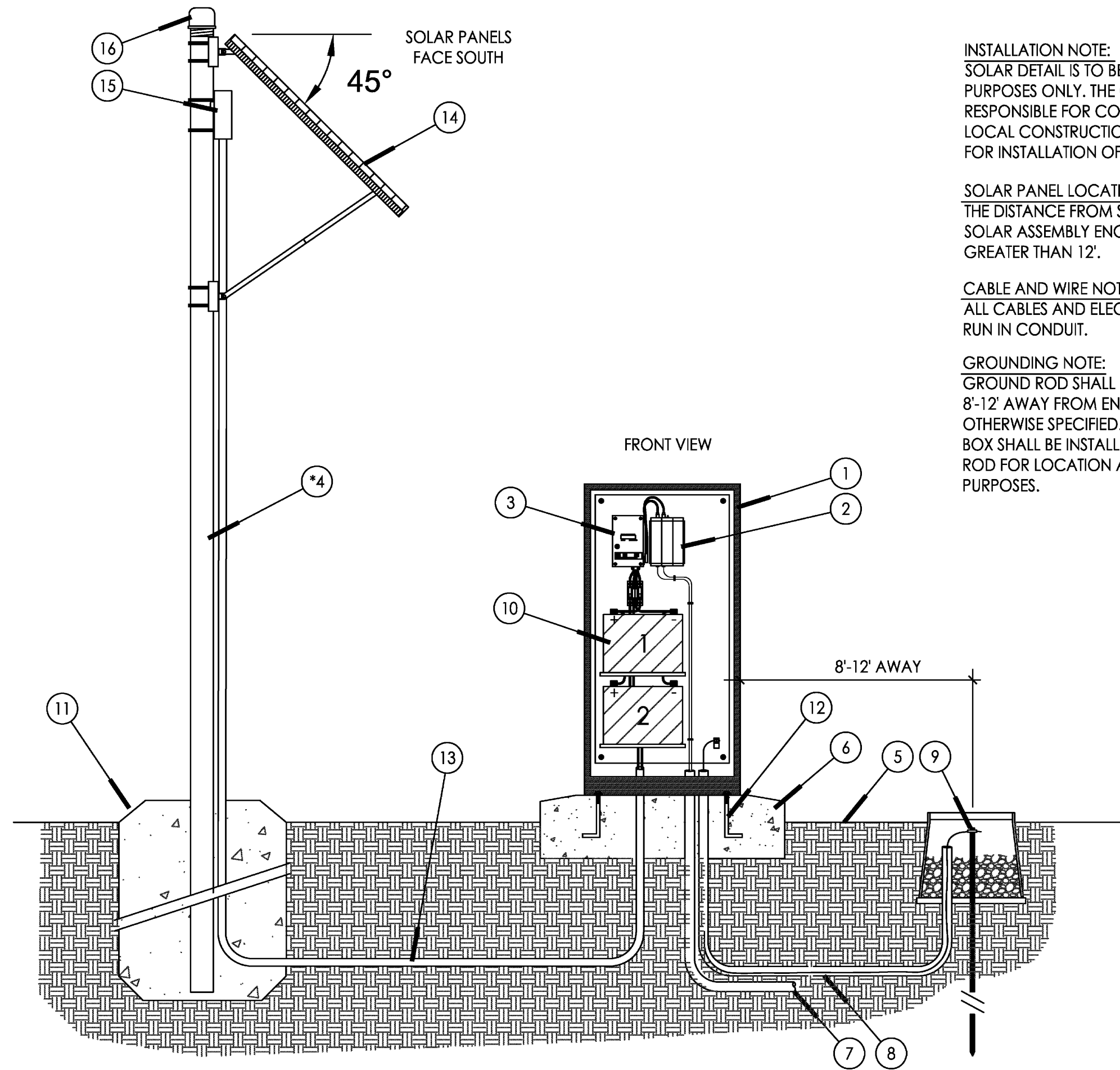
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Consulting Engineers
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Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

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CLOVIS UNIFIED SCHOOL DISTRICT		FOWLER-MCKINLEY ELEMENTARY SCHOOL	
OFF-SITE		IRRIGATION DETAILS	
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CH. BY: DWB	OF 11 SHEETS	DATE: 11/09/22	
SCALE: AS NOTED	15-C-		

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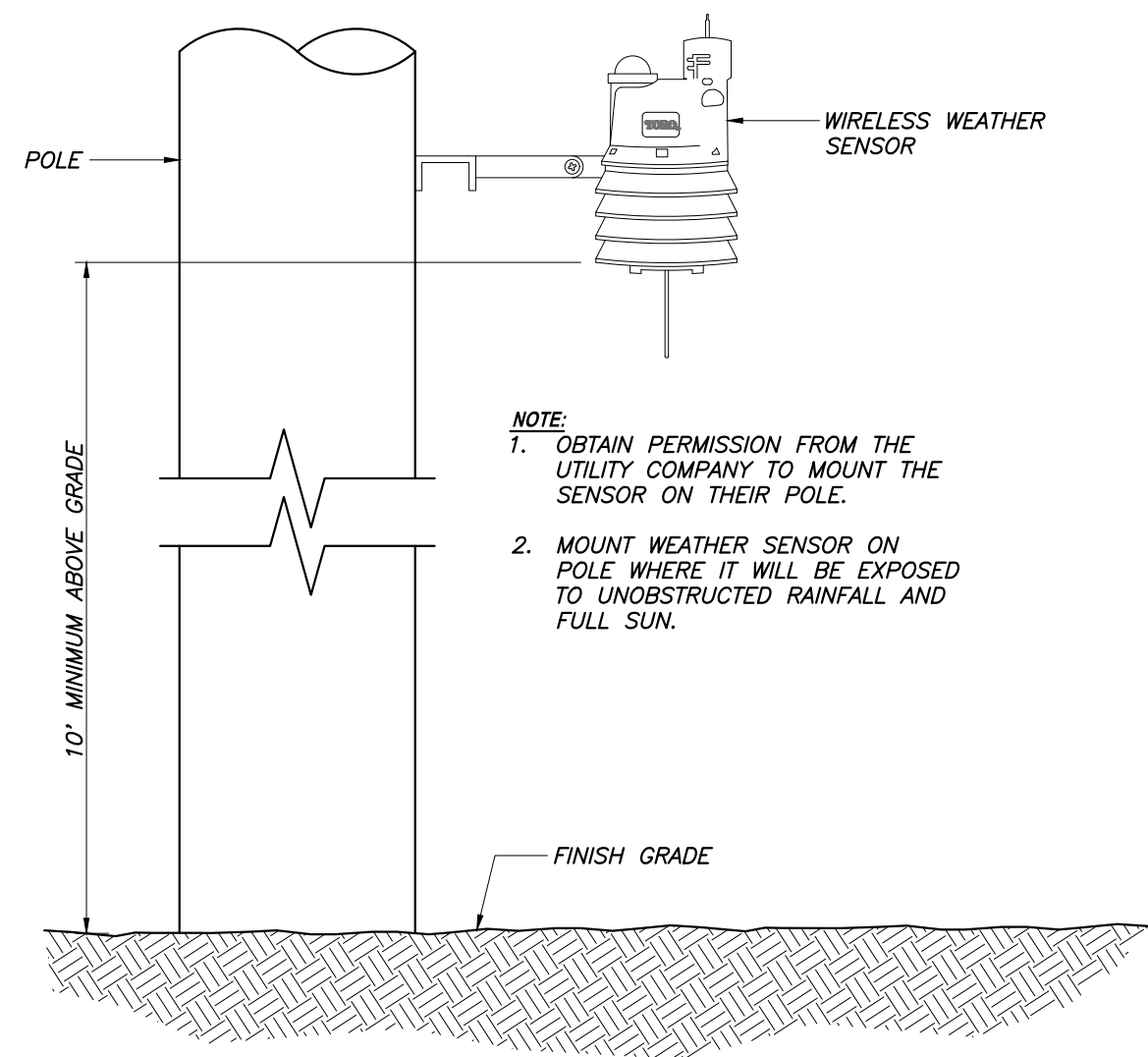
INSTALLATION NOTE:
 SOLAR DETAIL IS TO BE USED FOR ILLUSTRATIVE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL CONSTRUCTION AND SAFETY CODES FOR INSTALLATION OF THE SOLAR PANEL.

SOLAR PANEL LOCATION NOTE:
 THE DISTANCE FROM SOLAR PANEL POLE TO SOLAR ASSEMBLY ENCLOSURE SHALL BE NO GREATER THAN 12'.

CABLE AND WIRE NOTE:
 ALL CABLES AND ELECTRICAL WIRES MUST BE RUN IN CONDUIT.

GROUNDING NOTE:
 GROUND ROD SHALL BE LOCATED BETWEEN 8'-12' AWAY FROM ENCLOSURE UNLESS OTHERWISE SPECIFIED. A 10" ROUND VALVE BOX SHALL BE INSTALLED OVER THE GROUND ROD FOR LOCATION AND MAINTENANCE PURPOSES.

- 1 STRONGBOX STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE AND SOLAR ASSEMBLY BY SITEONE GREEN TECH.
- 2 POWER INVERTER.
- 3 CHARGE CONTROLLER.
- 4 4" GALVANIZED POLE X 15' (HEIGHT ABOVE CONCRETE NOT TO EXCEED 10')
- 5 FINISHED GRADE.
- 6 6" MIN THICK, CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATIONS.
- 7 1-1/2" ELECTRICAL CONDUIT AND SWEEP ELL FOR 120 VAC POWER LINE TO CONTROLLER.
- 8 1-1/2" PVC CONDUIT AND SWEEP ELL WITH #6 GROUND WIRE TO EXTERNAL GROUND ROD LOCATION.
- 9 UL LISTED 5/8" x 8' GROUND ROD WITH #6 GROUND WIRE AND CLAMP INSTALLED INSIDE 10" ROUND VALVE BOX.
- 10 BATTERIES FOR POWER STORAGE. NUMBER OF BATTERIES BASED ON POWER REQUIREMENT.
- 11 MINIMUM 20" DIAMETER X 60" DEEP CONCRETE POST
- 12 ANCHOR BOLTS PROVIDED WITH ENCLOSURE.
- 13 1" ELECTRICAL CONDUIT AND SWEEPS FOR SOLAR POWER CABLES
- 14 MOUNT SOLAR PANEL ON GALVANIZED POLE WITH BRACKET PROVIDED. POLE NOT INCLUDED.
- 15 SOLAR COMBINER BOX WITH BREAKERS MOUNTED TO POLE.
- 16 GALVANIZED END CAP.



B
 7 IRRITROL CL-100 POLE MOUNT

FOR BIDDING PURPOSES ONLY

SEE SHEET 3 FOR IRRIGATION LEGEND

SEE SHEET 8 FOR IRRIGATION CALCULATIONS

A
 7 SOLAR ASSEMBLY - 250 SERIES
 NOT TO SCALE



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CLOVIS UNIFIED SCHOOL DISTRICT		FOWLER-MCKINLEY ELEMENTARY SCHOOL	
OFF-SITE		IRRIGATION DETAILS	
REVIEWED: _____	OFFICE ENG. _____	CITY ENG. _____	DATE: 11/09/22
DR. BY: CMH	CH. BY: DWB	SCALE: AS NOTED	SHEET NO. 7 OF 11 SHEETS
			15-C-

CRITICAL ANALYSIS

P.O.C. NUMBER: 01 Water Source Information:	P.O.C. NUMBER: 01 Water Source Information:	P.O.C. NUMBER: 01 Water Source Information:
FLOW AVAILABLE Water Meter Size: 1-1/2" Flow Available: 75 GPM	FLOW AVAILABLE Water Meter Size: 1-1/2" Flow Available: 75 GPM	FLOW AVAILABLE Water Meter Size: 1-1/2" Flow Available: 75 GPM
PRESSURE AVAILABLE Static Pressure at POC: 700 PSI Elevation Change: 5 ft Service Line Size: 3" Length of Service Line: 20 ft Pressure Available: 698 PSI	PRESSURE AVAILABLE Static Pressure at POC: 700 PSI Elevation Change: 5 ft Service Line Size: 3" Length of Service Line: 20 ft Pressure Available: 698 PSI	PRESSURE AVAILABLE Static Pressure at POC: 700 PSI Elevation Change: 5 ft Service Line Size: 3" Length of Service Line: 20 ft Pressure Available: 698 PSI
DESIGN ANALYSIS Maximum Station Flow: 24.86 GPM Flow Available at POC: 75 GPM Residual Flow Available: 50.14 GPM	DESIGN ANALYSIS Maximum Station Flow: 11 GPM Flow Available at POC: 75 GPM Residual Flow Available: 64 GPM	DESIGN ANALYSIS Maximum Station Flow: 24.86 GPM Flow Available at POC: 75 GPM Residual Flow Available: 50.14 GPM
Critical Station: A-6 Design Pressure: 30 PSI Friction Loss: 4.08 PSI Fittings Loss: 0.41 PSI Elevation Loss: 0 PSI Loss through Valve: 0.51 PSI Pressure Req. at Critical Station: 35.0 PSI Loss for Fittings: 0.27 PSI Loss for Main Line: 14.9 PSI Loss for POC to Valve Elevation: 0 PSI Loss for Backflow: 12.2 PSI Loss for Master Valve: 0.53 PSI Loss for Water Meter: 3.53 PSI Critical Station Pressure at POC: 66.4 PSI Pressure Available: 698 PSI Residual Pressure Available: 631.6 PSI	Critical Station: B-1 Design Pressure: 30 PSI Friction Loss: 1.54 PSI Fittings Loss: 0.15 PSI Elevation Loss: 0 PSI Loss through Valve: 0.19 PSI Pressure Req. at Critical Station: 31.9 PSI Loss for Fittings: 0.13 PSI Loss for Main Line: 1.35 PSI Loss for POC to Valve Elevation: 0 PSI Loss for Backflow: 0 PSI Loss for Master Valve: 0.53 PSI Loss for Water Meter: 0.8 PSI Critical Station Pressure at POC: 34.7 PSI Pressure Available: 698 PSI Residual Pressure Available: 663.3 PSI	Critical Station: B-2 Design Pressure: 30 PSI Friction Loss: 4.08 PSI Fittings Loss: 0.41 PSI Elevation Loss: 0 PSI Loss through Valve: 0.51 PSI Pressure Req. at Critical Station: 35.0 PSI Loss for Fittings: 0.19 PSI Loss for Main Line: 1.92 PSI Loss for POC to Valve Elevation: 0 PSI Loss for Backflow: 11 PSI Loss for Master Valve: 0.53 PSI Loss for Water Meter: 3.53 PSI Critical Station Pressure at POC: 52.2 PSI Pressure Available: 698 PSI Residual Pressure Available: 645.8 PSI

WATER EFFICIENT LANDSCAPE WORKSHEET
Educational - DSA PR 15-03

Project: Fowler/McKinley Street and Trail
Location: City of Fresno, Fresno County
ETo Reference (MWEL0-Apdx. A): Fresno

MAWA = MAXIMUM APPLIED WATER ALLOWANCE (1,000 GALLONS)

TOTAL NEW BUILDING FOOTPRINT	0 SF	(1,600 sf is threshold for inclusion)
75% OF BLDG. SF REQ'D LANDSCAPE	0 SF	
EXIST. IRRIGATION REMOVED FROM SERVICE	0 SF	
REGULAR LANDSCAPE AREA	27,705 SF	(landscape area >500 sf)
SPECIAL LANDSCAPE AREA (SLA)	0 SF	
TOTAL PROPOSED LANDSCAPE AREA (LA)	27,705 SF	
TOTAL OVER (UNDER) REQUIRED AREA	27,705 SF	

NORMAL YEAR REFERENCE ANNUAL

EVAPOTRANSPIRATION (ETo)	53.4
EFFECTIVE PRECIPITATION (25% OF ANNUAL)	0.0
ADJUSTED EVAPOTRANSPIRATION	53.4

MAWA=(ETo) x (0.62) [(0.65 x LA)+(0.35 x SLA)] ANNUAL 2015 DWR/DSA Update

MAX. APPLIED WATER ALLOWANCE	596.2	K Gallons
TOTAL IN ACRE/FT	1.8	
TOTAL IN CCF	797.1	

ETWU = ESTIMATED TOTAL WATER USE (1,000 GALLONS)

LANDSCAPE HYDROZONE TYPES	27,705	HA	PF	IE	ETAF
MIXED PLANTING (L)	27,705	SF	0.3	0.81	0.37
MIXED PLANTING (M)	0	SF	0.5	0.81	0.62
WARM-SEASON TURFGRASS (MH)	0	SF	0.6	0.75	0.80
SLA - RECREATIONAL/RECYCLED WATER USE	0	SF	0.6	0.75	0.80
AVERAGE REGULAR ETAF:					0.37
MAXIMUM AVERAGE REGULAR ETAF:					0.65
AVERAGE SITEWIDE ETAF:					0.37

ETWU=(ETo) x (0.62) x [(HA x PF/IE) + SLA] ANNUAL typical IE coefficients

MIXED PLANTING (L)	339.7	0.75	overhead sprinklers
MIXED PLANTING (M)	0.0	0.81	drip & bubblers
WARM-SEASON TURFGRASS (M)	0.0		
SLA - RECREATIONAL/RECYCLED WATER USE	0.0		
ESTIMATED TOTAL WATER USE	339.7		K Gallons
TOTAL IN ACRE/FT	1.0		
TOTAL IN CCF	454.2		

ETWU AS A PERCENT OF MAWA: 57%

HYDROZONE INFORMATION TABLE

Project: Fowler/McKinley Street and Trail
Location: City of Fresno, Fresno County

ZONE ID	PLANT TYPE	IRRIGATION STATIONS	IRRIGATION METHOD	EXPOSURE	ZONE AREA SQ. FT.	% OF TOTAL	PLANT FACTOR
A-1	L	A-1	B	SU	2270	8%	0.3
A-2	L	A-2	B	SU	2388	9%	0.3
A-3	L	A-3	B	SU	2333	8%	0.3
A-4	L	A-4	B	SU	1900	7%	0.3
A-5	L	A-5	B	SU	3720	13%	0.3
A-6	L	A-6	B	SU	3670	13%	0.3
A-7	L	A-7	B	SU	4181	15%	0.3
B-1	L	B-1	B	SU	2269	8%	0.3
C-1	L	C-1	B	SU	4974	18%	0.3
					27,705	100%	

WATER USE PLANT TYPES (WUCOLS)
VERY LOW USE (VL) PF less than 0.1
LOW WATER USE (L) PF 0.1 - 0.3
MEDIUM WATER USE (M) PF 0.4 - 0.6
HIGH WATER USE (H) PF 0.7 - 0.9

EXPOSURE
SOUTH / WEST SUN (SW)
EAST SUN (SE)
FULL SUN (SU)
NORTH SHADE (N)
PROTECTED SHADE (P)

IRRIGATION METHOD
MICRO-SPRAY (MS)
PRECISION SPRAY (PS)
SPRAY (S)
ROTOR SPRAY (RS)
GEARED ROTOR (GR)
BUBBLER (B)
STREAM BUBBLER (SB)
DRIP EMITTERS (D)

FOR BIDDING PURPOSES ONLY

SEE SHEET 4-7 FOR IRRIGATION NOTES AND DETAILS

SEE SHEET 3 FOR IRRIGATION LEGEND



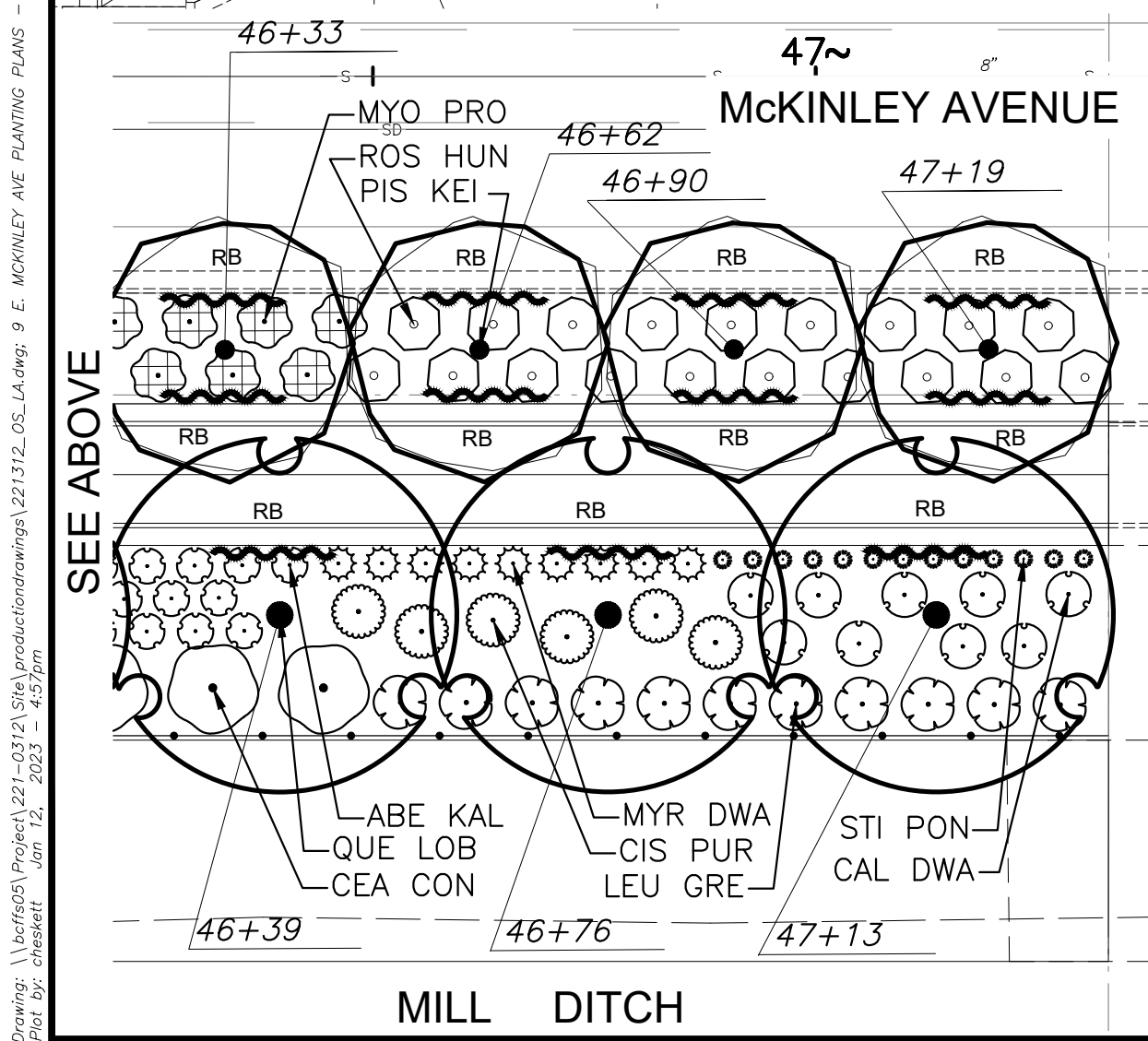
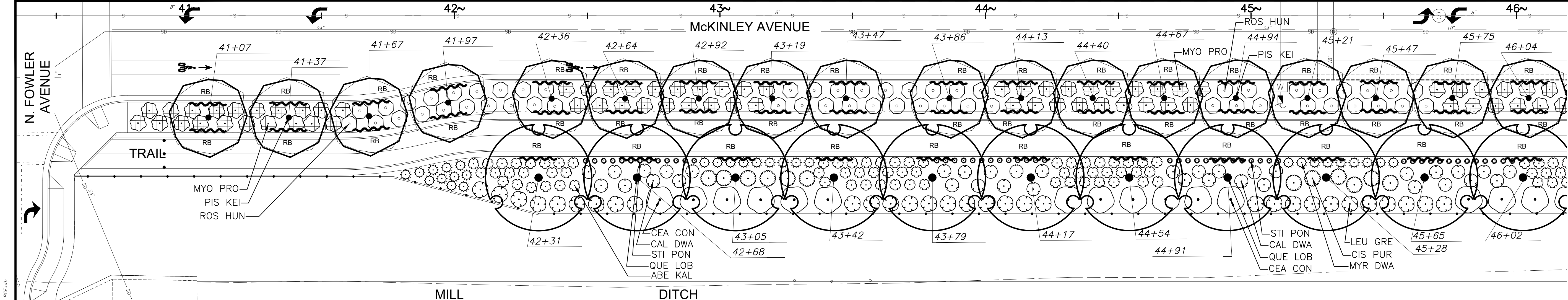
Blair, Church & Flynn
CONSULTING ENGINEERS

CONSULTANT
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481 Clovis Avenue,
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PW FILE NO. 12777	CITY OF FRESNO	DEPARTMENT OF PUBLIC WORKS
PROJ. I.D. _____	CLOVIS UNIFIED SCHOOL DISTRICT FOWLER-MCKINLEY ELEMENTARY SCHOOL OFF-SITE IRRIGATION CALCULATIONS	REVIEWED: _____
FUND NO. _____		OFFICE ENG. _____ CITY ENG. _____
ORG NO. _____		DR. BY: CMH SHEET NO. 8
REF. & REV. _____		CH. BY: DWB OF 11 SHEETS
		DATE: 11/09/22
		SCALE: AS NOTED 15-C-

Drawing: \\beaf6051\Projects\221-0312\Site\production\drawings\221312_OS_LR.dwg, 8 IRRIGATION CALCULATIONS - BCF.cb
Date: 11/09/22 10:48 AM

Drawing: \\cedars\51\Projects\221-03121\Site\production\drawings\221312_OS_La.dwg, 9. E. MCKINLEY AVE PLANTING PLANS - BCF.ctb
 Date: 11/09/22
 User: bcf



CONTRACTOR SPECIAL PLANTING NOTES:

1. AN ASSESSMENT AND VALUATION OF ONSITE EXISTING TREES SCHEDULED TO REMAIN IN THE AREA OF WORK SHALL BE PERFORMED BY THE CONTRACTOR'S ARBORIST PRIOR TO THE START OF CONSTRUCTION OPERATIONS PER THE 'EXISTING LANDSCAPE PROTECTION' SPECIFICATION.
2. THE CONTRACTOR SHALL RIP, CONDITION AND TILL THE ENTIRE EXTENT OF ALL PLANTING AREAS RECEIVING NEW PLANTS PER THE PLANTING NOTES AND 'LANDSCAPE PLANTING' SPECIFICATIONS.
3. ALL EXISTING MIXED PLANTING AREAS RECEIVING NEW WOOD MULCH SHALL BE MANUALLY TILLED TO A MINIMUM DEPTH OF 4 INCHES, CLODS BROKEN UP TO A MAXIMUM 1 INCH DIAMETER, FINISH GRADED TO 2 INCHES BELOW ADJACENT SURFACES AND UTILITY/IRRIGATION BOXES WITHIN 12 INCHES OF THE HARDSCAPE EDGE, AND A PRE-EMERGENT HERBICIDE APPLIED PRIOR TO WOOD MULCH INSTALLATION. PROTECT EXISTING PLANTING DURING WOOD MULCH PREPARATION AND INSTALLATION.
4. THE ORIGINAL PLANTING OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
5. THE AS-BUILT RECORD DRAWING SET AND CLOSE-OUT DOCUMENTS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.

WATER CONSERVATION COMPLIANCE STATEMENT:

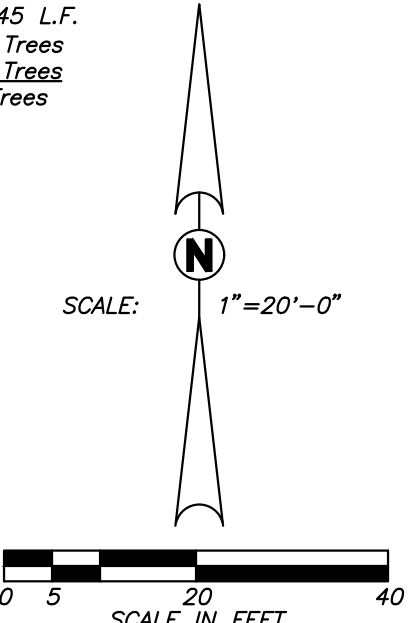
I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE PLANTING DESIGN PLAN.

DAVID W. BRILEY, RLA 2787

CITY OF FRESNO TREE REQUIREMENT

Per City of Fresno Municipal Code 13-304.C, parkway or median trees are to be spaced at a maximum of 40'-0".

Total length of frontage 1,245 L.F.
 Trees required 1,245 L.F. ÷ 40'-0" = 31 Trees
 Trees provided 36 Trees
 Total trees over requirement 5 Trees



TREE SIZE AND QUALITY STANDARDS
 AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) AND GUIDELINE SPECIFICATIONS FOR NURSERY TREE QUALITY (URBAN TREE FOUNDATION) SHALL APPLY

CONTAINER SIZE	TYPES 1 & 2 SHADE TREES			TYPE 3 SMALL UPRIGHT TREES**			TYPE 4 SMALL SPREADING TREES***		
	MIN. CALIPER	MAX. CALIPER	TYPE 1 MIN./MAX. HEIGHT*	MIN. CALIPER	MAX. CALIPER	MIN./MAX. HEIGHT	MIN. CALIPER	MAX. CALIPER	MIN./MAX. HEIGHT
15 GALLON	0.75	2.0	7-10 FT	0.75	2.0	6-8 FT	0.75	2.0	4-8 FT
24" BOX	1.25	3.0	8-12 FT	1.25	3.0	8-10 FT	1.25	3.0	6-10 FT
36" BOX	1.75	3.5	10-16 FT	1.75	3.5	10-14 FT	1.75	3.5	7-12 FT
42" BOX	2.0	4.0	12-20 FT	2.0	4.0	12-18 FT	2.0	4.0	8-14 FT
48" BOX	2.5	5.0	14-26 FT	2.5	5.0	14-22 FT	2.5	5.0	9-16 FT

* TYPE 2 TREE HEIGHTS SHALL NOT BE LESS THAN TWO-THIRDS THE LISTED HEIGHT RANGE.
 ** TYPE 3 TREES SHALL HAVE A MINIMUM OF SEVEN BRANCHES
 *** TYPE 4 TREES SHALL HAVE A MINIMUM OF EIGHT BRANCHES

CALIPER MEASUREMENT FOR CLUMP OR MULTI-STEM TREES IS ONE-HALF THE SUM OF THE THREE LARGEST TRUNK CALIPERS
 CALIPER MEASUREMENT FOR <4" TRUNK IS +6" ABOVE ROOTBALL (NOT INCLUDING ROOTSTOCK). >4" TRUNK IS +12"

TREES SHALL HAVE A CENTRAL LEADER. NEW LEADERS LESS THAN HALF THE DIAMETER OF A HEADED LEADER, BROKEN OR CO-DOMINATE LEADERS ARE NOT ACCEPTABLE

SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIIALLY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE.

TEMPORARY BRANCHES ON THE LOWER TRUNK SHALL BE LESS THAN 3/8 INCH DIAMETER; AND THE CLEAR TRUNK HEIGHT SHALL BE NO MORE THAN 40% OF THE TOTAL TREE HEIGHT.

THE ROOT COLLAR AND ROOTBALL SHALL BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED AND GIRDLING ROOTS. ROOTS THE EDGE AND BOTTOM OF THE CONTAINER SHALL BE LESS THAN 1/4 INCH DIAMETER, AND UNIFORM THROUGHOUT THE CONTAINER.

TREE CANOPY WIDTH SHALL BE A MINIMUM OF 25% OF THE STANDARD FORM TREE HEIGHT.

DO NOT HEAD BACK OR PRUNE TREES UNLESS APPROVED AND/OR DIRECTED TO BY THE LANDSCAPE ARCHITECT

LANDSCAPE PLANTING OBSERVATION LOG

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH	
		PRINT NAME	SIGNATURE
PL-1	REPORT & PROTECTION OF EXISTING TREES		
PL-2	RIPPING OF PLANTING AREAS		
PL-3	SOIL CONDITIONING & TILLAGE DEPTH		
PL-4	IRRIGATION COVERAGE PRIOR TO PLANTING		
PL-5	FINISH GRADING PRIOR TO PLANTING		
PL-6	TREES - INITIAL QUALITY & LAYOUT		
PL-7	PLANTS - INITIAL QUALITY & LAYOUT		
PL-8	WOOD MULCH DEPTH		

NOTES: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
 WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.

FOR BIDDING PURPOSES ONLY

SEE SHEET 11 FOR PLANTING NOTES AND DETAILS

SEE SHEET 10 FOR PLANT LEGEND



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 CONSULTING ENGINEERS

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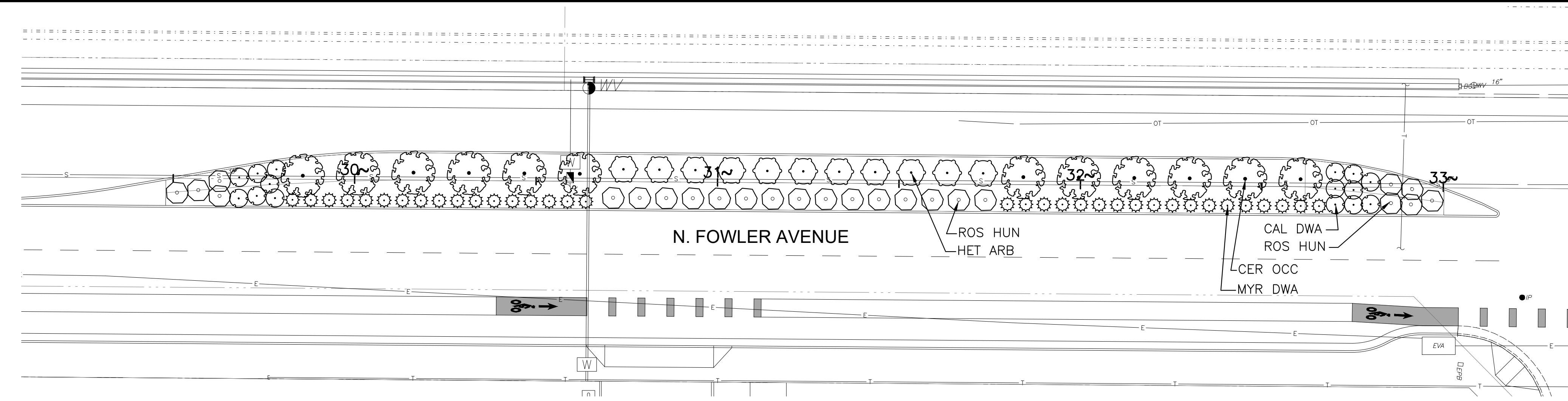
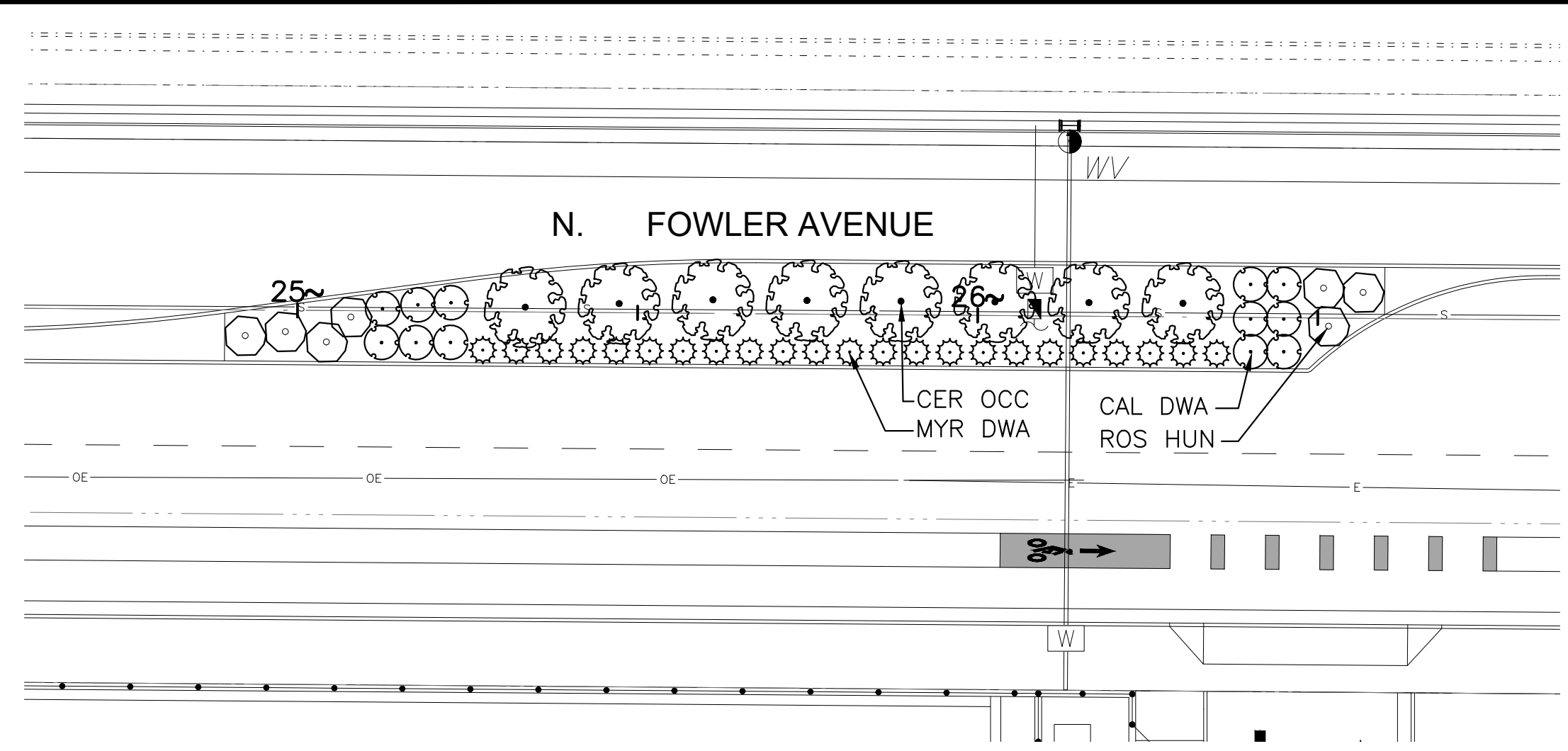
PW FILE NO. 12777
 PROJ. I.D. _____
 FUND NO. _____
 ORG. NO. _____
 REF. & REV. _____

CITY OF FRESNO DEPARTMENT OF PUBLIC WORKS

CLOVIS UNIFIED SCHOOL DISTRICT
FOWLER-MCKINLEY ELEMENTARY SCHOOL
OFF-SITE
E. MCKINLEY AVE PLANTING PLANS

REVIEWED: _____ CITY ENG. _____
 OFFICE ENG. _____
 DR. BY: CMH SHEET NO. 9
 CH. BY: DWB OF 11 SHEETS
 DATE: 11/09/22
 SCALE: AS NOTED 15-C-

Drawing: \\bcs\dfs\Projects\221-221-0312\GIS\production\drawings\221212_OS_La.dwg, 10 N. FOWLER AVE PLANTING PLAN - BCF.ctb
Date: 11/09/22
User: bcf



PLANT LEGEND

TREES	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
	PIS KEI	PISTACIA CHINENSIS 'KEITH DAVEY' KEITH DAVEY CHINESE PISTACHE	15 GAL	L	22	A/11	25'-35' H X 25'-35' W
	QUE LOB	QUERCUS LOBATA VALLEY OAK	15 GAL	L	14	A/11	CA NATIVE. DECIDUOUS. 50'-70' H X 40'-60' W
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY	DETAIL	REMARKS
	ABE KAL	ABELIA X GRANDIFLORA 'KALEIDOSCOPE' KALEIDOSCOPE GLOSSY ABELIA	5 GAL	L	84	B/11	SEMI-EVERGREEN, SEASONAL RED/PURPLE/GREEN/YELLOW/GOLD FOLIAGE. 2'-3' H X 3'-4' W
	CAL DWA	CALLISTEMON VIMALIS 'LITTLE JOHN' DWARF WEeping BOTTLEBRUSH	1 GAL	L	72	B/11	RED FLOWERS YEAR-ROUND 3' H X 5' W

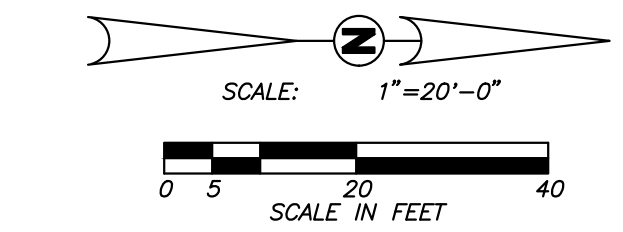
	CEA CON	CEANOTHUS X 'CONCHA' CONCHA WILD LILAC	5 GAL	L	18	B/11	CA NATIVE. BLUE FLOWERS IN SPRING. 6-5' H X 8-12' W
	CER OCC	CERCIS OCCIDENTALIS WESTERN REDBUD	5 GAL	VL	20	B/11	MULTI-TRUNK, CA NATIVE. PINK FLOWERS IN SPRING. DECIDUOUS. 10-15' H X 10-15' W
	CIS PUR	CISTUS X PURPUREUS ORCHID ROCKROSE	1 GAL	L	18	B/11	PINK FLOWERS FROM SPRING TO SUMMER. 4-6' H X 4-6' WIDE
	HET ARB	HETEROMELES ARBUTIFOLIA TOYON	5 GAL	VL	11	B/11	CA NATIVE. RED BERRIES IN WINTER. 6-10' H X 6-8' W
	LEU GRE	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD' GREEN CLOUD TEXAS SAGE	5 GAL	L	42	B/11	PURPLE FLOWERS SPRING THROUGH FALL. 6' H X 6' W
	MYO PRO	MYOPORUM PARVIFOLIUM 'PROSTRATUM' MYOPORUM	1 GAL	L	77	B/11	SMALL WHITE FLOWERS SPRING THROUGH SUMMER. 3'-6" H X 6' W
	MYR DWA	MYRTUS COMMUNIS 'COMPACTA' DWARF MYRTLE	1 GAL	L	96	B/11	WHITISH-PINK FLOWERS IN SUMMER. 2'-4' H X 2'-4' W
	ROS HUN	ROSMARINUS OFFICINALIS 'HUNTINGTON CARPET' HUNTINGTON CARPET ROSEMARY	1 GAL	L	105	B/11	LIGHT BLUE FLOWERS IN EARLY SPRING. FRAGRANT LEAVES. 1'-2' H X 8' W

GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY	DETAIL	REMARKS
	STI PON	STIPA TENUISSIMA 'PONY TAILS' FINESTEM NEEDLEGRASS	1 GAL	L	65	B/11	LATE SEASON FLOWERS, WINTER ORNAMENTAL INTEREST 1'-2' H X 1'-2' W
	RB	ROOT BARRIER	N/A	N/A	60	D/9	24 INCH DEEP ROOT BARRIER PANELS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

PLANTING AREA: 27,705 S.F. SUNSET ZONE: 9

**FOR BIDDING
PURPOSES ONLY**

SEE SHEET 11 FOR
PLANTING NOTES
AND DETAILS



**Blair,
Church
& Flynn**
CONSULTING ENGINEERS

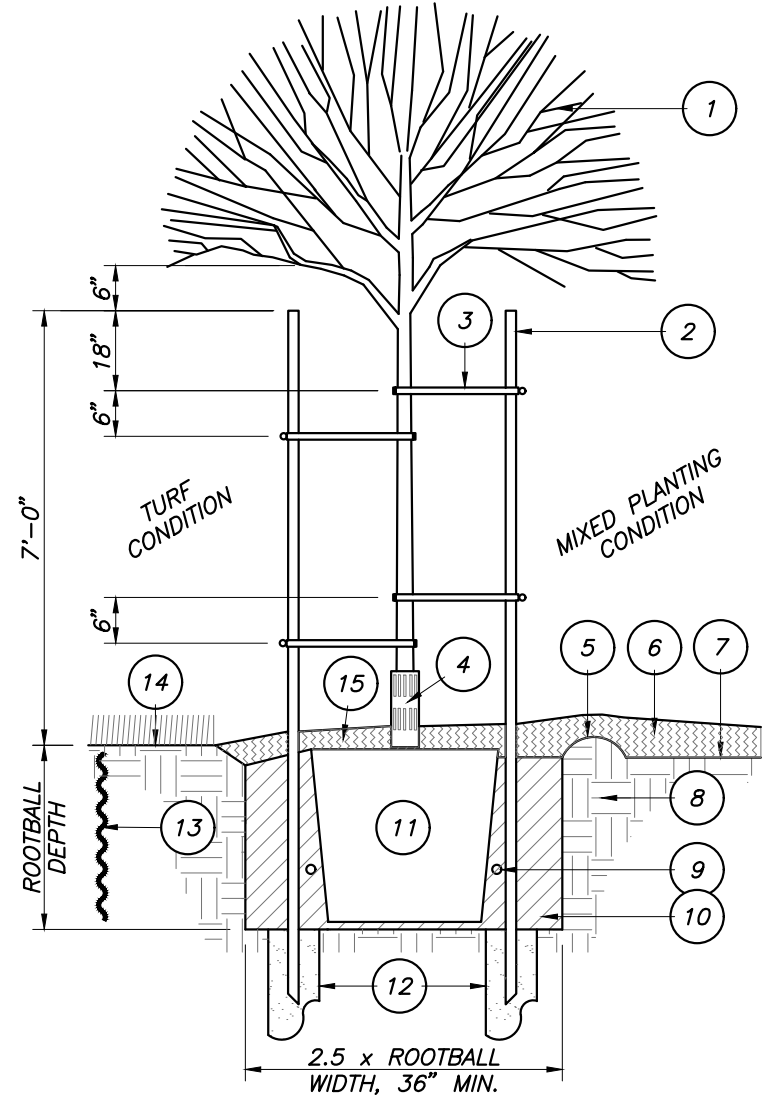
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PW FILE NO.	12777
PROJ. I.D.	
FUND NO.	
ORG NO.	
REF. & REV.	

CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
CLOVIS UNIFIED SCHOOL DISTRICT FOWLER-MCKINLEY ELEMENTARY SCHOOL OFF-SITE N. FOWLER AVE PLANTING PLAN			
REVIEWED:	CITY ENG.	SHEET NO.	9
OFFICE ENG.		OF	11 SHEETS
DR. BY: CMH			
CH. BY: DWB			
DATE: 11/09/22			
SCALE: AS NOTED			15-C-

CITY OF FRESNO PUBLIC WORKS
DEPARTMENT GENERAL PLANTING
NOTES:

- THE CITY OF FRESNO SHALL CONDUCT INSPECTIONS OF PLANT MATERIAL. ADDITIONAL INSPECTIONS BY COUNTY AGRICULTURAL INSPECTORS WILL BE REQUIRED (PER STATE LAW) FOR QUARANTINE SPECIES OF PLANTS. CONTRACTOR WILL BE RESPONSIBLE FOR ASSURING THAT THE PLANT MATERIAL THAT IS SHIPPED COMPLIES WITH STATE LAWS AND COUNTY INSPECTION REQUIREMENTS.
- CONTRACTOR SHALL NOT INSTALL LANDSCAPING WHEN IT OBVIOUS THAT THERE IS DISCREPANCY BETWEEN THE PLANS AND THE ACTUAL SITE CONDITIONS. CONSULT WITH CITY INSPECTOR TO RESOLVE THE DISCREPANCY.
- ALL PLANTING AND RELATED WORK SHALL COMPLY WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS, SECTION 26. SPECIFICATIONS ARE AVAILABLE AT CITY HALL, 2600 FRESNO STREET, ENGINEERING SERVICES, 4TH FLOOR OR ON-LINE AT WWW.FRESNO.GOV/GOVERNMENT/DEPARTMENT/DIRECTORY/PUBLICWORKS/DEVELOPER/DOORWAY/TECHNICAL-LIBRARY/STANDARDSPECIFICATIONSANDDRAWINGS. TO SETUP A PRE-CONSTRUCTION MEETING, CALL 559.621-5600.
- TREES IN ENCLOSED PLANTER BOXES, RAISED PLANTERS OR SUBJECT TO SUBSURFACE DRIP IRRIGATION REQUIRE NO WATER BASINS.
- ALL ROOTBALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
- PLANTING PIT SHALL BE 2 TIMES THE DIAMETER OF THE PLANT CONTAINER IN ACCORDANCE WITH SECTION 26-2.14 OF THE STANDARD SPECIFICATIONS.
- DRAINAGE HOLES IN THE TREE PLANTING PIT ARE REQUIRED AND AS DETERMINED BY THE ENGINEER. DRILLING OF HOLES SHALL BE IN ACCORDANCE WITH SECTION 26-2.12, 2.13 OF THE STANDARD SPECIFICATIONS.
- STAKE TREES IN ACCORDANCE WITH SECTION 26-2.16 OF THE STANDARD SPECIFICATIONS. PLACE THE UPPER TREE TIE AT THE LOWEST POINT ALONG THE TREE TRUNK WHERE THE TREE HEAD WILL SUPPORT ITSELF.
- ROOT BARRIERS ARE REQUIRED FOR ALL TREES PLANTED WITHIN TEN (10) FEET OR LESS OF ALL CONCRETE IMPROVEMENTS AS PER CITY OF FRESNO STANDARD SPECIFICATIONS AND AS SHOWN ON PLANS.
- ALL SHRUBS SHALL BE SET BACK 3 FEET AWAY FROM EDGE OF WALKS, WALLS, AND OTHER HARDSCAPE FEATURES. GROUND COVER SHALL BE PLANTED 1 FOOT FROM THE SAME FEATURES.
- A 12" WIDE X 6" THICK CONCRETE MOWSTRIP SHALL BE CONSTRUCTED OVER 6 INCHES OF COMPACTED NATIVE SOIL OR AS DETERMINED BY THE ENGINEER. MOWSTRIPS ARE TO DEFINE BOUNDARIES OF LANDSCAPING TO BE MAINTAINED BY THE CITY AND ARE TO BE CONSTRUCTED AS SHOWN ON THE PLANS.
- MAXIMUM SLOPE SHALL NOT EXCEED 4:1 WITH ONE FOOT OF LEVEL GROUND BETWEEN THE SLOPE AND THE BACK OF THE SIDE WALK AND/OR FACE OF FENCE. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED ON ALL SLOPES 4:1 OR STEEPER. SUCH EROSION CONTROL SHALL, AT A MINIMUM INCLUDE THE USE OF SYNTHETIC EROSION CONTROL NETTING IN COMBINATION WITH GROUND COVER SPECIES APPROVED BY THE PUBLIC WORKS DEPARTMENT. THE EROSION CONTROL NETTING SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO SHIPPING, AND INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
- AFTER ACCEPTANCE OF THE PROJECT BY THE CITY OF FRESNO, THE CONTRACTOR SHALL MAINTAIN ALL PLANTING AND ASSOCIATED MATERIALS ACCORDING TO THE APPROVED SPECIFICATIONS AND STANDARDS FOR A PERIOD OF NO LESS THAN THE STANDARD 90 (NINETY) DAY MAINTENANCE PERIOD.



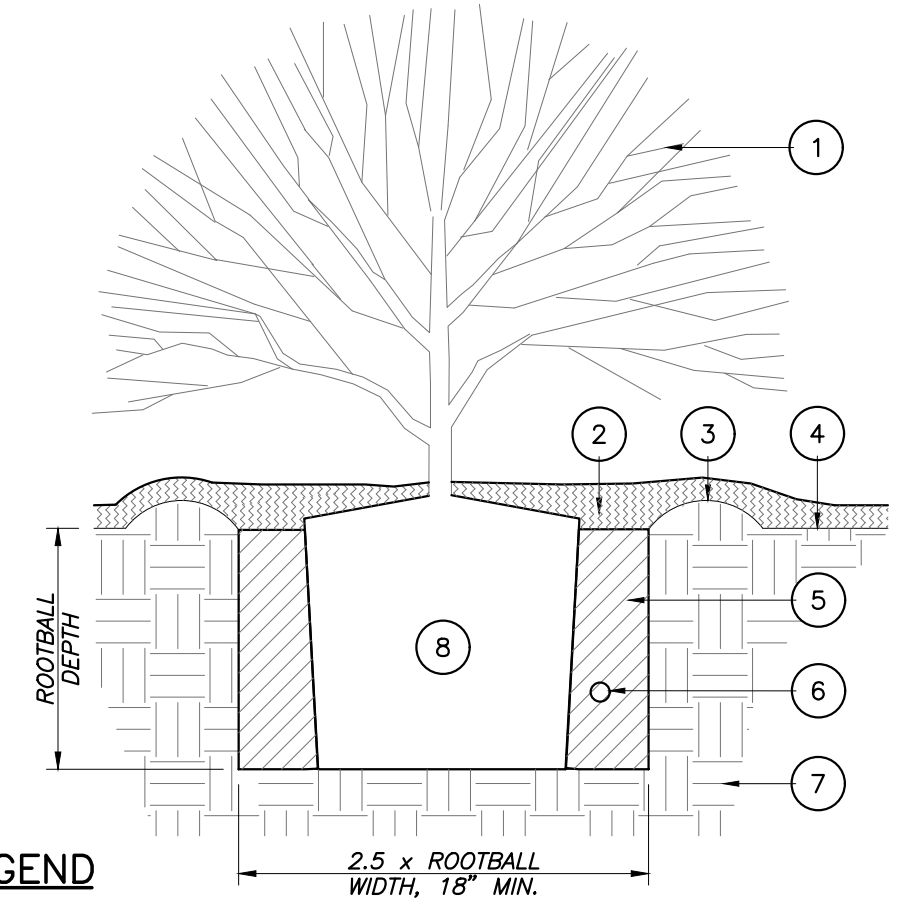
DRAINAGE SUMP NOTES:

- DRAINAGE SUMPS SHALL PENETRATE THROUGH AND BEYOND ANY UNDERLYING PAVEMENT OR HARDPAN SOIL STRATUM, AND SUCH PAVEMENT OR HARDPAN MATERIAL SHALL BE REMOVED FROM THE SUMP HOLES.
- THE SUMP HOLE SHALL BE DRILLED TO MINIMUM DEPTH OF TEN (10) FEET, UNLESS VISUAL EVIDENCE OF A SUBSURFACE SAND AND/OR GRAVEL DRAINAGE STRATUM IS APPARENT AT A LESSER DEPTH. THE SUMP HOLES SHALL EXTEND INTO THE DRAINAGE STRATUM A MINIMUM OF ONE (1) FOOT.

A DOUBLE STAKE TREE PLANTING
11 NOT TO SCALE

LEGEND:

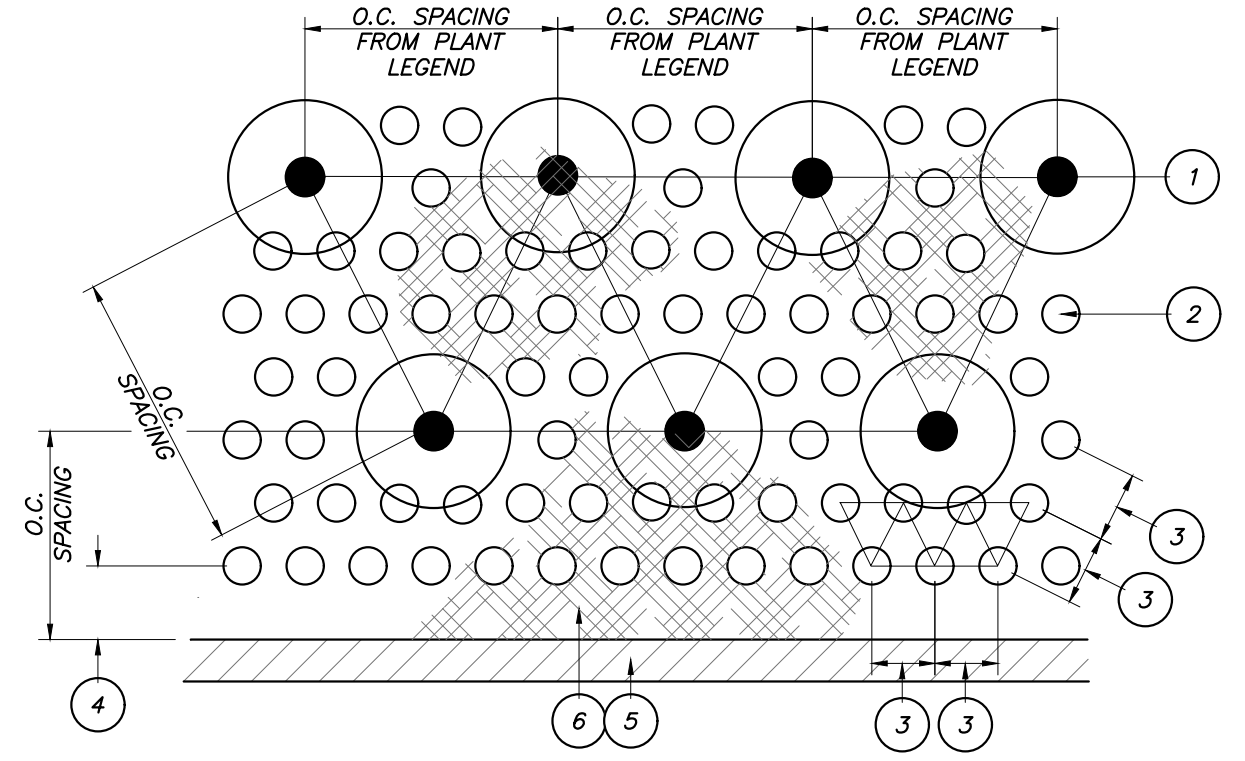
- TREE PER PLANTING PLAN.
- 2" X 10' LODGEPOLE PINE STAKE. DO NOT DRIVE STAKE THROUGH ROOTBALL. CUT OFF TOP SECTION DAMAGED BY HAMMERING. TOP OF STAKE IS 6" CLEAR OF LOWEST TREE BRANCHES.
- FLEXIBLE VINYL TREE TIE, 4" TREE (V.I.T. OR APPROVED EQUAL.)
- TREE TRUNK PROTECTOR (GRAY) WHERE TREE IS IN TURF AREA.
- 4" HIGH WATERING BERM.
- ADJACENT PLANTING AREA WITH MULCH WHERE OCCURS.
- FINISH GRADE.
- SITE SOIL.
- PLANT FERTILIZER TABLET. SEE SPECIFICATIONS.
- AMENDED BACKFILL. SEE SPECIFICATIONS.
- ROOTBALL. SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE.
- DRAINAGE SUMP: 12" DIA. PER NOTES BELOW. FILL WITH CONCRETE SAND PER SSPWC 200-1.5.5.
- ROOT CONTROL BARRIER WHERE REQUIRED. SEE PLANTING NOTES AND DETAIL.
- ADJACENT TURFGRASS PLANTING WHERE OCCURS.
- MULCH, MINIMUM 3" DEPTH.



LEGEND:

- SHRUB.
- WOOD MULCH LAYER.
- 3" HIGH WATERING BASIN.
- FINISH GRADE.
- AMENDED BACKFILL. SEE SPECIFICATIONS.
- FERTILIZER PACKET. SEE SPECIFICATIONS.
- SITE SOIL.
- ROOTBALL. SET TOP OF ROOTBALL 1" ABOVE FINISH GRADE.

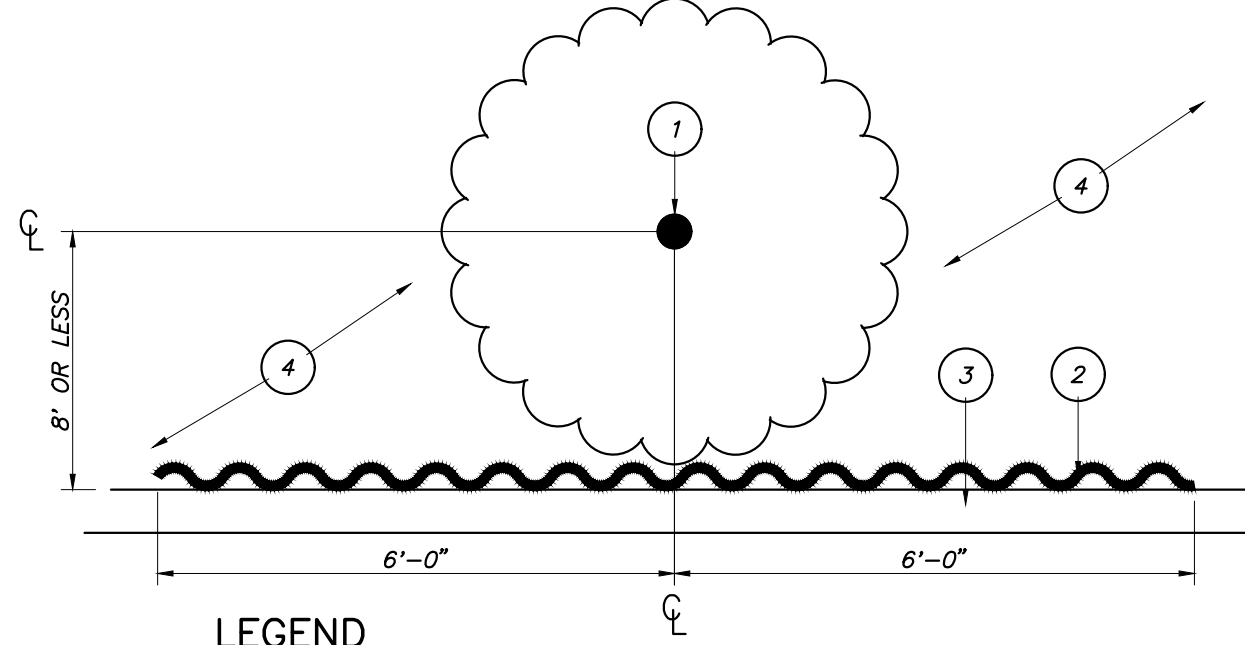
B SHRUB PLANTING
11 NOT TO SCALE



LEGEND:

- CONTAINER SHRUB OR GROUND COVER IN TRIANGULATED ROWS, SEE SHRUB PLANTING PER DETAIL.
- GROUND COVER FLATS OR LINERS - TRIANGULATED ROWS.
- SPACE PER PLANT LEGEND. OMIT PLANTS WHERE IN CONFLICT WITH SHRUBS OR TREE WATERING BASINS.
- SPACING DISTANCE FROM PLANT LEGEND.
- HARDSCAPE ELEMENT: CURB, WALK, ETC.
- MULCH PER SPECIFICATIONS.

C SHRUB AND GROUND COVER SPACING
11 NOT TO SCALE



LEGEND:

- TREE TRUNK.
- 12 LF OF 24"-DEEP ROOT CONTROL BARRIER: DEEP ROOT UB24-2 OR EQUIVALENT. CENTER BARRIER ON TRUNK OF TREE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- HARDSCAPE ELEMENT: CURB, SIDEWALK, WALL, ETC.
- PLANTING AREA.
- INSTALL ROOT CONTROL BARRIER ON ALL SIDES OF THE PLANTING AREA WHEN SURROUNDED BY HARDSCAPE WITHIN 8' OF THE TREE TRUNK.

D ROOT CONTROL BARRIER
11 NOT TO SCALE

**FOR BIDDING
PURPOSES ONLY**



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CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
CLOVIS UNIFIED SCHOOL DISTRICT		FOWLER-MCKINLEY ELEMENTARY SCHOOL	
OFF-SITE		PLANTING DETAILS & NOTES	
REVIEWED:	CITY ENG.	DR. BY:	CITY ENG.
OFFICE ENG. _____	_____	CMH	_____
CH. BY:	DWB	CH. BY:	DWB
DATE:	11/09/22	DATE:	11/09/22
SCALE:	AS NOTED	SCALE:	AS NOTED
SHEET NO. 11		SHEETS 11	
15-C-		15-C-	