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Choice One Engineering

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(937) 767-8199

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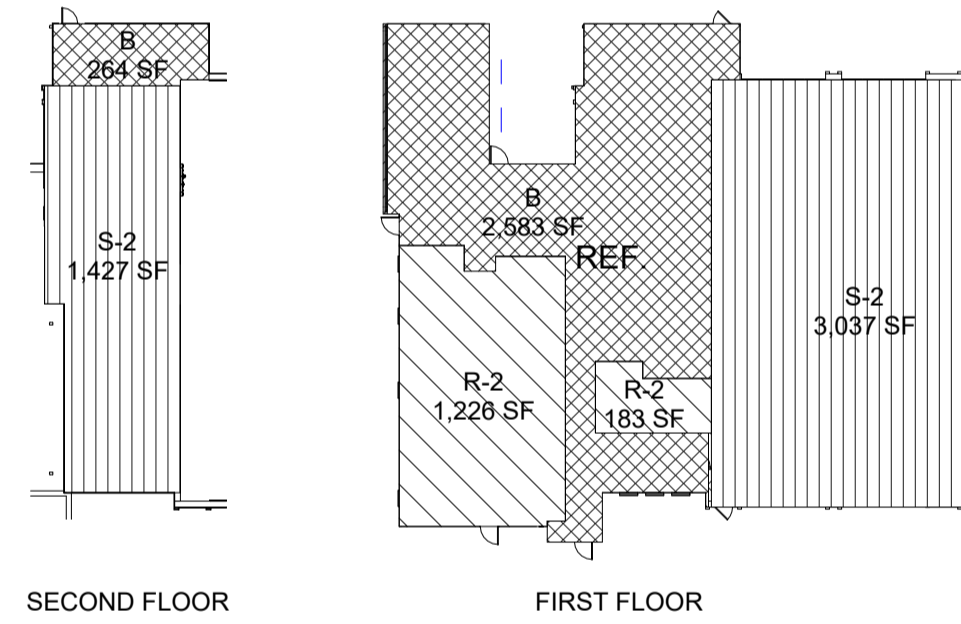
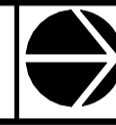
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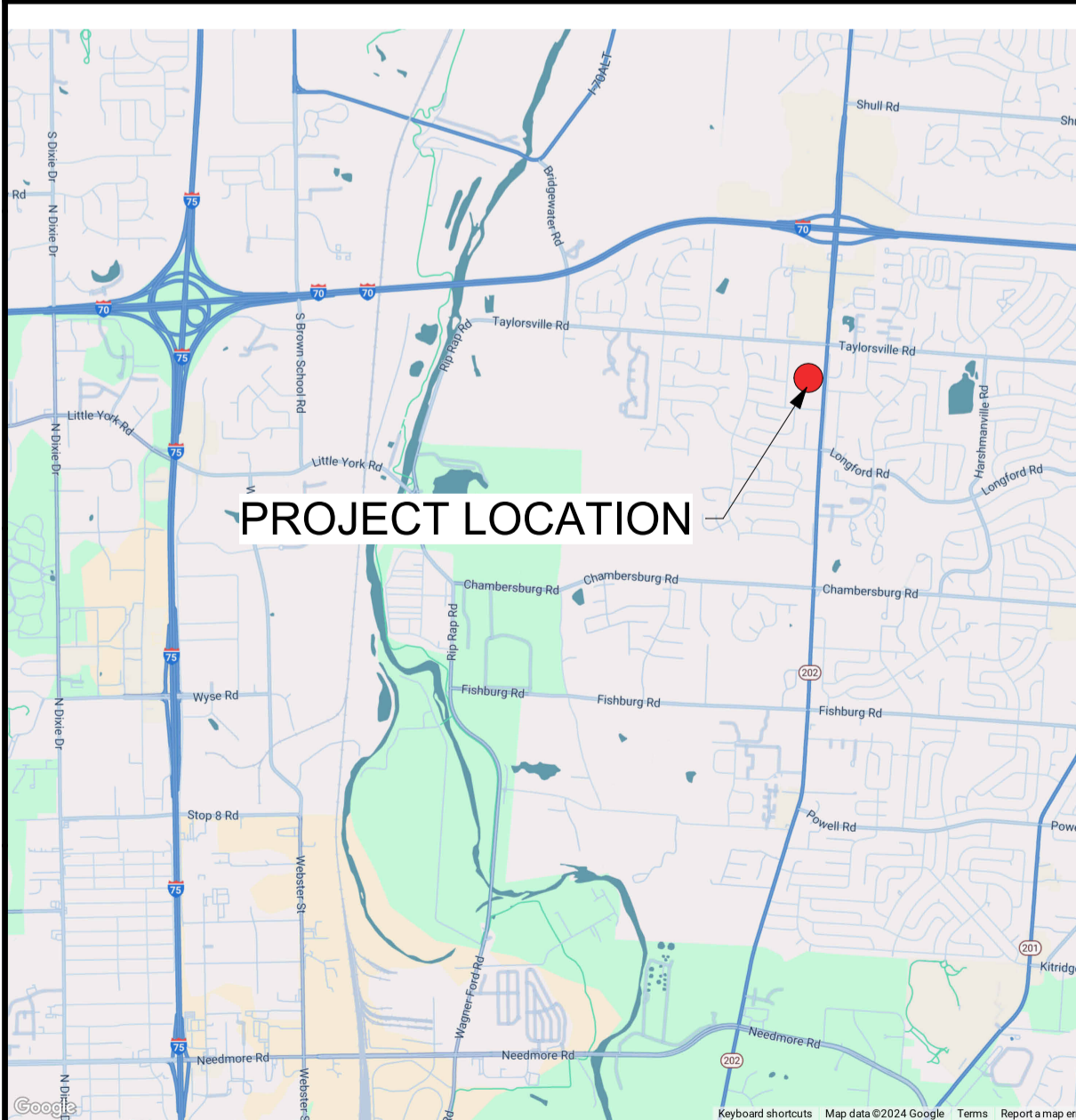
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VICINITY MAP



B: 2,847 SF
S-2: 4,464 SF
R-2: 1,409 SF
TOTAL: 8,720 SF

VICINITY MAP



CODE INFORMATION

(OBC 2024)

PROJECT DESCRIPTION

PROJECT CONSISTS OF RENOVATING EXISTING FIRST FLOOR OF 4,650 SF + 1,648 SF SECOND FLOOR, FOR A TOTAL OF 6,298 SF, AND CONSTRUCTING A 2,422 SF ADDITION TO THE SOUTH OF THE EXISTING STATION. SECOND FLOOR WILL NOW OPERATE AS A MEZZANINE.

USE GROUP CLASSIFICATION

OBC (302) USE GROUP= B: STATION OFFICES AND LIVING AREAS
R-2: CREW SLEEPING QUARTERS
S-2: APPARATUS BAYS AND TRAINING

OBC (508.3) MIXED OCCUPANCIES:
UNSEPARATED MIXED USE
EXCEPTION 2: DWELLING AND SLEEPING UNITS SHALL BE SEPARATED FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 420.

OBC (708.3) FIRE RESISTANCE RATING:
EXCEPTION 2: DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDINGS OF TYPE IIB, IIIB, AND VIB CONSTRUCTION SHALL HAVE FIRE-RESISTANT RATINGS OF NOT LESS THAN 1/2" HOUR IN BUILDINGS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

AREA OF R-2 GROUPED TOGETHER DORM ROOMS TO BE SURROUNDED BY 2-HR FIRE SEPARATION DUE TO PROVIDING LIMITED AREA SPRINKLER SYSTEM AS AGREED UPON WITH CHIEF BUILDING OFFICIAL TONY WENZLER AS MEETING INTENT OF CODE 10/9/2024.

SLEEPING UNITS TO HAVE 20 MIN. RATED DOORS AND FRAMES IN ACCORDANCE WITH OBC TABLE 716.1.

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE = VB

OCCUPANT LOAD

OBC (1004) ALLOWABLE= 100 SF PER OCCUPANT

FIRE STATION
B: 2,847 SF / 100 = 28
S-2: 4,464 SF / 300 = 15
R-2: 1,409 SF / 200 = 7
TOTAL = 50 PEOPLE

DESIGN OCCUPANT LOAD= B: 6
S-2: 0
R-2: 0
TOTAL = 6 OCCUPANTS

(PRIMARILY USED TO DETERMINE STORM SHELTER OCCUPANCY)

FIRE PROTECTION

BUILDING DESCRIPTION : LIMITED AREA FIRE SUPPRESSION FOR R-2 AREAS AND MECHANICAL ROOM. AGREED UPON WITH CHIEF BUILDING OFFICIAL TONY WENZLER AS MEETING INTENT OF CODE ON 10/9/2024.

MAINTAINING EXISTING 1-HOUR FIRE RATED WALL BETWEEN S-2 APPARATUS BAYS AND OTHER USES.

HEIGHT AND AREA LIMITATIONS

ALLOWABLE AREA (TABLE 506.2) = 9,000 SF
B USE GROUP IS MOST RESTRICTIVE. R-2 USE GROUP IS SPRINKLED.

EXISTING BUILDING FIRST FLOOR = 4,650 SF
MEZZANINE (SECOND FLOOR) = 1,648 SF

NEW ADDITION FIRST FLOOR = 2,422 SF
TOTAL = 8,720 SF

ALLOWABLE HEIGHT (TABLE 504.3) = 40'-0" (2 STORY)
B & S USE GROUP IS MOST RESTRICTIVE
ACTUAL HEIGHT (TABLE 504.4) = 36'-2" (2 STORY)

PLUMBING FIXTURES REQUIRED (BASED ON ALLOWABLE BUILDING OCCUPANCY)

USE GROUP	WC	LAVS	SHOWERS	D.F.	SERVICE SINK
B	1	1	0	1	1
R-2	1	1	1	1	1
S-2	1	1	0	0	1
TOTAL	3	3	1	1	1

PLUMBING FIXTURES PROPOSED (BASED ON ALLOWABLE BUILDING OCCUPANCY)

USE GROUP	WC	LAVS	SHOWERS	D.F.	SERVICE SINK
TOTAL	4	4	1	1	1

STORM SHELTER PROVISIONS

REFER TO SHEET G0.2 FOR STORM SHELTER INFORMATION.

OTHER CODE PROVISIONS

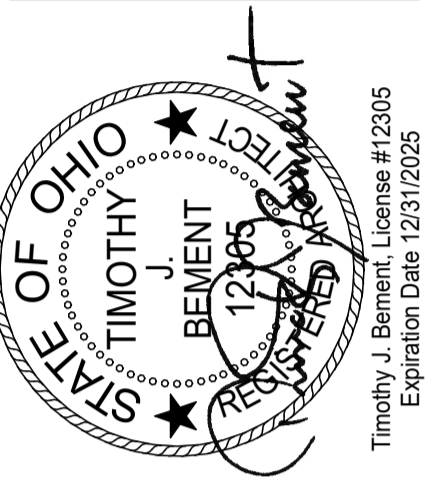
A STANDBY GENERATOR WILL SUPPORT THE ENTIRE BUILDING, ALL EMERGENCY SYSTEMS (EXIT/EGRESS LIGHTING, FIRE ALARM, ETC.) SHALL HAVE BATTERY BACKUP.

REFER TO SHEET S0.1 FOR ADDITIONAL CODE NOTES AND REFERENCES.

GOVERNING CODE: 2024 OHIO BUILDING CODE.

BUILDING RISK CATEGORY: CATEGORY IV

REFER TO STRUCTURAL DRAWINGS FOR ESSENTIAL FACILITY AND SEISMIC RISK CATEGORY INFORMATION.



ISSUE		
NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
DRAWN	MSM
CHECKED	TJB
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TITLE COVER SHEET	
SHEET NO.	

STORM SHELTER INFORMATION

GOVERNING CODES:
 • OBC 2024, SECTION 423 STORM SHELTERS
 • ICC 500 2020

THIS SHELTER IS CLASSIFIED AS A COMMUNITY TORNADO SHELTER. THE SHELTER IS LOCATED ON THE MAIN FLOOR LEVEL OF THE FIRE STATION.

THE SHELTER IS DESIGNED TO ACCOMMODATE 6 OCCUPANTS OF THE FIRE STATION.

ICC 500, 2020 CHAPTER 1: APPLICATION AND ADMINISTRATION

DESIGN INFORMATION PER 106.2.1 IS LOCATED OR REFERENCE ON THIS SHEET.

- ITEM 2: USE OF COMMUNITY STORM SHELTER IS BY BUILDING OCCUPANTS ONLY.
 ITEM 9: DESIGN WIND PRESSURES ARE INCLUDED IN STRUCTURAL STORM SHELTER CALCULATIONS SECTION 1; DESIGN LOADS FOR BASIC DESIGN WIND LOAD AND SECTION 6 & 7 FOR COMPONENTS AND CLADDING WIND LOAD DESIGNS.
 ITEM 20: FOUNDATION CAPACITY REQUIREMENTS AND REINFORCEMENT ARE INCLUDED ON STRUCTURAL SHEET S0.1.
 ITEM 21: POST INSTALLED ANCHORS ARE USED FOR THE INSTALLATION OF THE IMPACT RESISTANT DOOR, AND THE WALL OPENING PLATE SHROUDS. REFER TO SHEETS A0.3, A0.6, AND S2.3 FOR ADDITIONAL INFORMATION.

ICC 500, 2020 CHAPTER 3: STRUCTURAL DESIGN AND TESTING CRITERIA

THE TORNADO SHELTER HAS BEEN DESIGNED PER THE REQUIREMENTS OF ICC 500 - 2020.

- SHELTER DESIGN WIND SPEED, V (ult): 250 mph
- WIND EXPOSURE CATEGORY: C
- INTERNAL PRESSURE COEFFICIENT (GC_{pi}): +/- 0.55
- TOPOGRAPHICAL FACTOR: 1.0
- DIRECTIONALITY FACTOR: 1.0
- MINIMUM FOUNDATION CAPACITY REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS
- SHELTER INSTALLATION REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS

REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL NOTES AND DETAILS.

ICC 500, 2020 CHAPTER 4: SITING

THE SHELTER IS NOT BEING CONSTRUCTED WITHIN AN AREA SUSCEPTIBLE TO FLOODING PER FEMA.

THE SITE IS LOCATED OUTSIDE OF ANY FLOOD PLAINS. THEREFORE, BASE FLOOD ELEVATION IS NOT APPLICABLE.

THE SHELTER FINISHED FLOOR ELEVATION IS 938.50. VERTICAL DATUM: NAVD88. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

ICC 500 2020, SECTION 502 OCCUPANCY DENSITY IN COMMUNITY SHELTERS

TABLE 501.1.1 (TORNADO) - OCCUPANCY DENSITY
 • 5 SF/STANDING OR SEATED MINIMUM
 • 10 SF/WHEELCHAIR SPACE (1:200)

501.1.2.2 - ALTERNATIVE CALCULATION OF USABLE FLOOR AREA
 GROSS AREA - 88.77 SF
 WALL AREA - 31.78 SF
 FIXED OBJECTS - 21.29 SF
 NET CLEAR AREA - 35.70 SF

MAXIMUM OCCUPANCY = 5 OCCUPANTS + 1 WHEELCHAIR OCCUPANT
 DECLARED BUILDING OCCUPANCY = 6 OCCUPANTS

501.2 - NUMBER OF DOORS
 • BASED ON SHELTER OCCUPANCY, ONLY ONE MEANS OF EGRESS IS REQUIRED.
 • PER EXCEPTION LISTED UNDER 501.2, NO EMERGENCY ESCAPE OPENING IS REQUIRED FOR SHELTERS WITH AN OCCUPANT LOAD NOT EXCEEDING 16 OCCUPANTS.

501.3 - DIRECTION OF SWING
 • DOORS SHALL SWING INTO THE SHELTER SPACE IN ACCORDANCE WITH OBC 2024.
 • BOTH DOOR ASSEMBLIES TO BE TESTED AND LABELED IN ACCORDANCE WITH ICC 500 2020, CHAPTER 8 AND ASTM E361.

504 - SIGNAGE FOR COMMUNITY SHELTERS
 • REFER TO VIEWS B5 AND G6 ON THIS SHEET FOR SIGNAGE LOCATIONS.
 • REFER TO SIGNAGE LEGEND ON SHEET A0.03 FOR SIGNAGE DETAILS.

ICC 500, 2020 CHAPTER 6: FIRE SAFETY

601.1 - FIRE SEPARATION
 • ALL SHELTER WALLS ARE 2 HOUR FIRE RATED PARTITIONS. UL DESIGN NO. U905.
 • SHELTER HORIZONTAL ASSEMBLY (CEILING/ROOF) IS A 2 HR. RATED ASSEMBLY. UL DESIGN NO. D219.

602 - FIRE EXTINGUISHERS
 • A WALL HUNG FIRE EXTINGUISHER IS PROVIDED MEETING IBC AND NFPA 10 REQUIREMENTS.
 • REFER TO SHEET A0.01 FOR MOUNTING DETAILS.

ICC 500, 2020 CHAPTER 7: SHELTER ESSENTIAL FEATURES AND ACCESSORIES

SECTION 702: TORNADO SHELTERS
 STORM SHELTER OCCUPANCY IS 6 PEOPLE.

TABLE 702.4 VENTILATION
 • AN OUTDOOR AIR FLOW RATE OF 5 SQ. IN. PER OCCUPANT IS REQUIRED. AT 6 OCCUPANTS, A TOTAL AIRFLOW RATE OF 30 SQ. IN. OF FREE AREA IS REQUIRED.
 • 36 SQ. IN. FREE AREA (120% OF REQUIRED 30 SQ. IN.) IS PROVIDED VIA A 6x6 TRANSFER AIR DUCT AND TRANSFER AIR DEVICE 'R3'.
 • 60 SQ. IN. FREE AREA (200% OF REQUIRED 30 SQ. IN.) IS PROVIDED WITHIN 46" OF THE FLOOR VIA A 12x16" INTAKE. THE INTAKE PROTECTIVE SHROUD HAS AN OPENING APPROXIMATELY 12x5, RESULTING IN THE 60 SQ. IN. FREE AREA. THIS DUCT PROVIDES OUTSIDE AIR INTAKE TO THE STORM SHELTER.
 • A TOTAL OF 96 SQ. IN. OF FREE AREA IS PROVIDED IN THE SHELTER.
 • VENTILATION OPENINGS ARE LOCATED ON DIFFERENT SHELTERS WALLS TO PROMOTE CROSS VENTILATION OF THE SPACE.
 • BOTH OPENINGS ARE PROVIDED WITH THERMALLY INSULATED CONTROL DAMPERS. THE DAMPERS ARE POWERED CLOSED, SPRING RETURN, FAIL OPEN AND WILL ACTIVATE UPON AN OCCUPANT ACTIVATING THE STORM SHELTER HVAC CONTROL SWITCH OR A BUILDING LOSS OF POWER.
 • PENETRATIONS INTO THE STORM SHELTER ARE PROTECTED BY A 2-HOUR FIRE DAMPER.

TABLE 702.3
 • ONE WATER CLOSET IS REQUIRED.
 • THE LAVATORY IS NOT REQUIRED.
 • HAND SANITIZER WILL BE STORED BY THE OWNER.

BASED ON 3 WATER CLOSET USES PER 8 HOUR PERIOD (FROM L.E.E.D.), IN A 2 HOUR PERIOD THAT WOULD EQUAL 3/4 USES PER PERSON. FOR 6 PEOPLE, 5 FLUSHES WOULD BE REQUIRED.

THE WATER CLOSET TANK WILL BE FILLED UPON ENTRY INTO THE SHELTER, SO ENOUGH WATER FOR 5 FLUSHES IS REQUIRED TO BE STORED IN THE SHELTER.

AT 1.6 GALLONS PER FLUSH THAT WILL REQUIRE 6.4 GALLONS MINIMUM BE STORED FOR WATER CLOSET USAGE.

ADDITIONAL POTABLE WATER SHALL BE STORED FOR DRINKING. INCLUDE THESE REQUIREMENTS IN THE OWNER'S INSTRUCTIONS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

702.8 STANDBY LIGHTING
 • LIGHTING FIXTURES WILL BE CONNECTED TO AN EMERGENCY BATTERY BACK-UP TO POWER LIGHTS IN SHELTER FOR A MINIMUM OF 2 HOURS UPON LOSS OF NORMAL POWER. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
 • A MINIMUM OF (1) FLASHLIGHTS >150 LUMENS EACH ARE TO BE STORED IN THE SHELTER.
 • PROVIDE STANDALONE UPS (1 KW-120V OUTPUT) TO POWER LIGHTING SERVING STORM SHELTER. UPS SHALL BE SIZED TO SUPPORT LIGHTING FOR A MINIMUM OF 2 HOURS UPON LOSS OF BUILDING NORMAL AND STANDBY POWER.

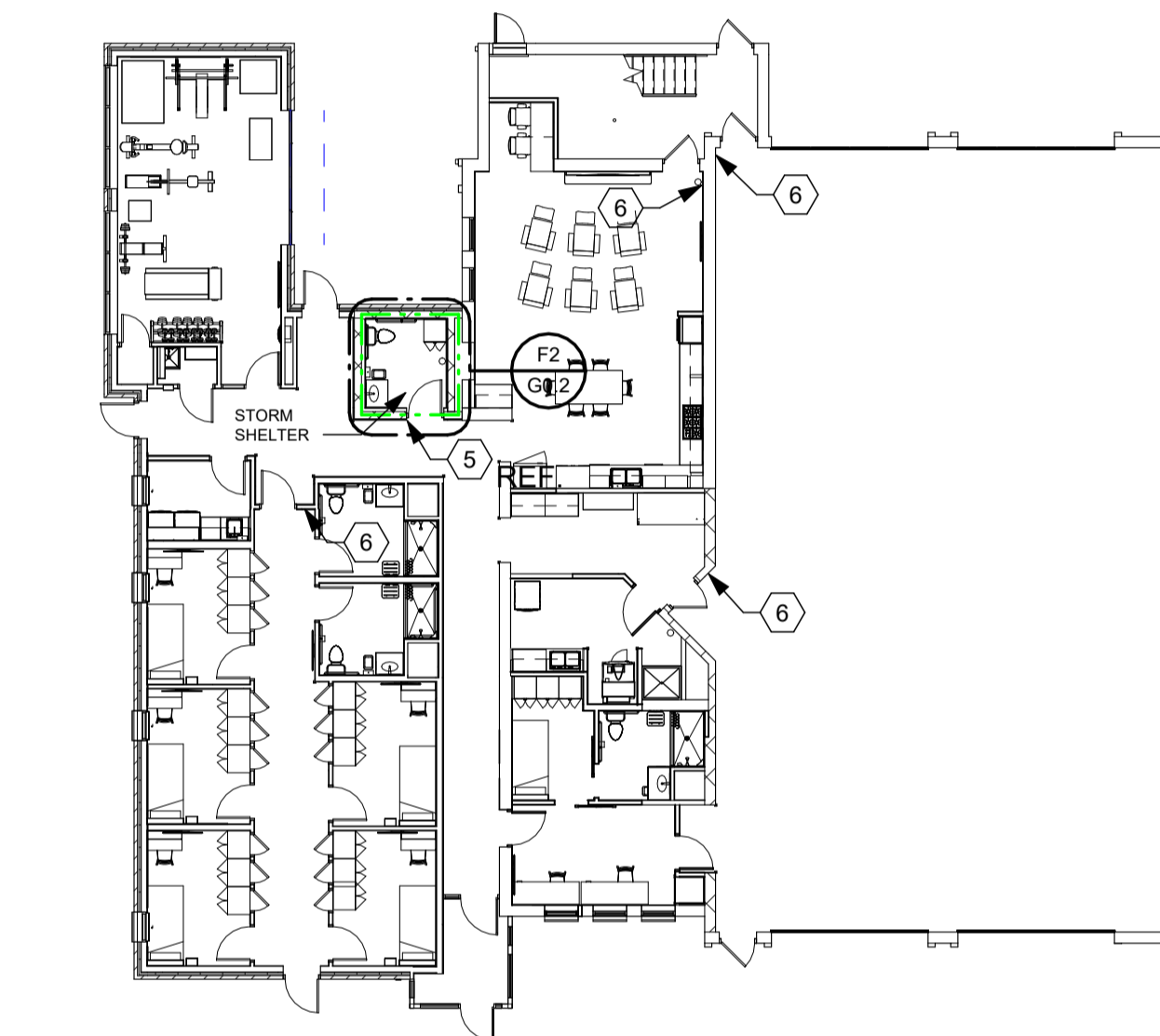
STORM SHELTER SPECIAL INSTRUCTIONS

STORM EVENT OPERATIONS PLAN

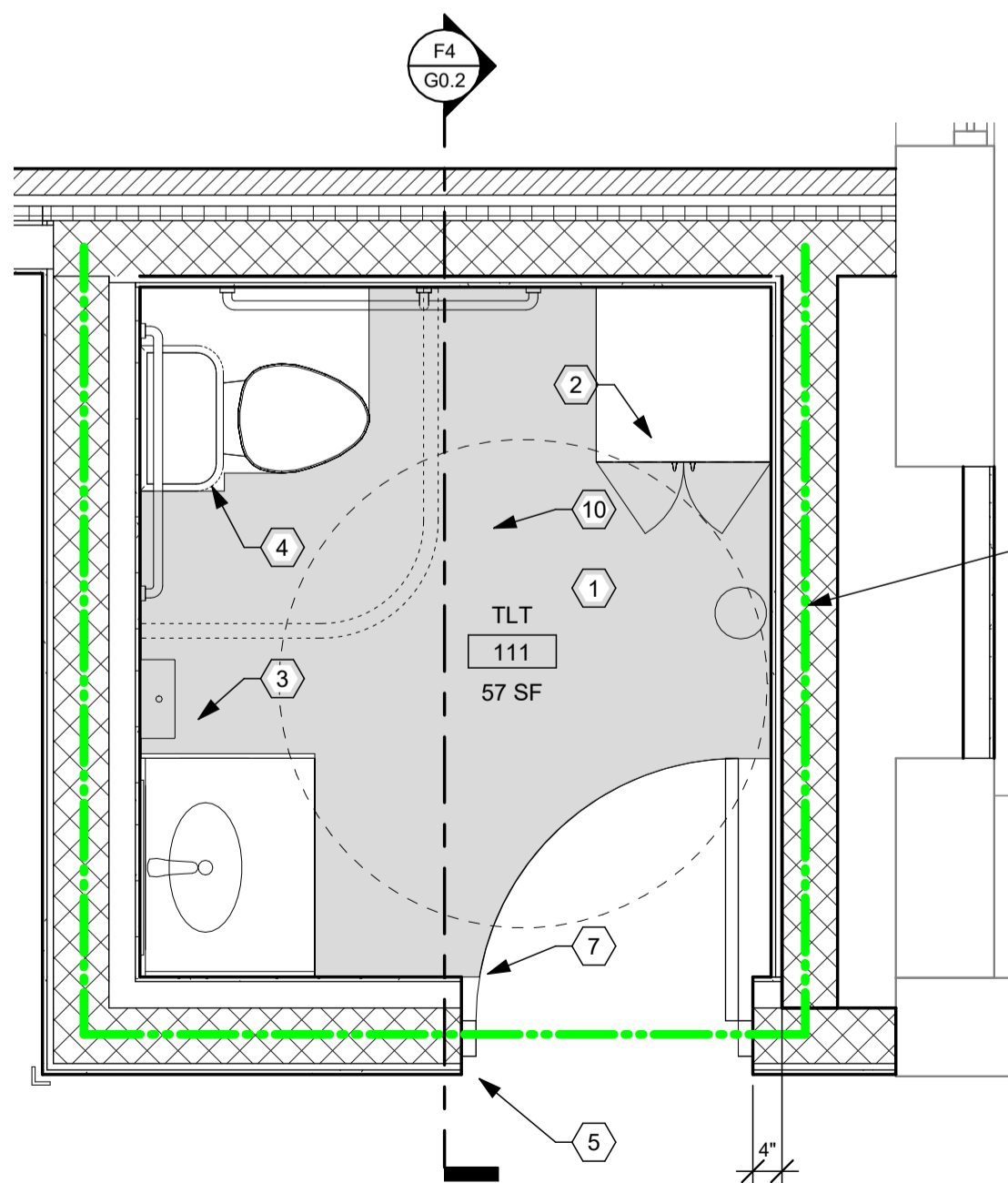
POSITION DESIGNATED PERSONNEL AT DOOR TO ENSURE THAT ONCE ALL OCCUPANTS ARE INSIDE SHELTER, DOOR REMAINS CLOSED AND LOCKED DURING THE ENTIRE STORM EVENT.
 • OPENING DOOR DURING HIGH PRE-EVENT OR EVENT WINDS COULD DAMAGE THE DEVICE, REMOVE THE DEVICE, OR MAKE IT WHERE THE DEVICE CANNOT BE RE-CLOSED MAKING ALL SHELTER OCCUPANTS VULNERABLE TO THE WIND EVENT FOR WHICH THEY ARE SEEKING PROTECTION.
 SHELTER OCCUPANTS ARE NOT TO PHYSICALLY CONTACT THE EXTERIOR WALLS OR OPENING PROTECTIVE DEVICES OF THE SHELTER.
 • VERY LARGE POINT LOADS CREATED BY DEBRIS MAY BE EXERTED ON THE EXTERIOR WALL AND THIS KINETIC ENERGY MAY BE TRANSFERRED THROUGH THE SHELTER WALL WHICH COULD INJURE AN INDIVIDUAL THAT IS CONTACT WITH THE EXTERIOR WALL OF THE SHELTER.

STORAGE CABINET CONTENTS

- 7 GALLONS OF POTABLE WATER FOR TOILET FLUSHING. (1) 5-GALLON BOTTLES TO BE STORED ON BOTTOM SHELF. (2) 1-GALLON BOTTLES TO BE STORED ON THE SHELF ABOVE.
- 2 CASES OF 16 OZ. WATER BOTTLES (EQUALING 3 GALLONS) FOR DRINKING
- HAND SANITIZER
- FIRST AID KIT COMPLYING WITH ANSI/ISEA Z308.1
- (1) FLASHLIGHTS WITH > 150 LUMENS OUTPUT EACH
- EVACUATION TOOLS
 HAMMER
 PRY BAR
 WORK GLOVES



D2 TORNADO SHELTER KEY PLAN
 1/16" = 1'-0"



F2 STORM SHELTER ENLARGED
 1/2" = 1'-0"

STORM SHELTER EVENT OPERATIONS PLAN - MECHANICAL VENTILATION

THE STORM SHELTER IS EQUIPPED WITH A NATURAL VENTILATION SYSTEM TO PROVIDE OUTSIDE AIR DURING USE. THE STORM SHELTER HAS A DEDICATED OUTSIDE AIR INTAKE DUCT, TRANSFER AIR DUCT OUT, AND CONTROL DAMPERS THAT ARE MANUALLY CONTROLLED THROUGH A TOGGLE SWITCH. UNDER NORMAL BUILDING OPERATION, THE SWITCH SHALL REMAIN IN THE "DAMPER CLOSED" POSITION TO STOP OUTSIDE AIR INFILTRATION COMING INTO THE CONDITIONED BUILDING. WHEN THE STORM SHELTER IS IN USE DURING A TORNADO EVENT, TURN THE SWITCH TO THE "DAMPER OPEN" POSITION TO PROVIDE OUTSIDE AIR TO THE STORM SHELTER. THE CONTROL DAMPERS HAVE A FAIL-SAFE BUILT IN TO AUTOMATICALLY OPEN THE DAMPERS IN THE EVENT OF BUILDING NORMAL AND BACKUP POWER LOSS. IF THE CONTROL SWITCH IS NOT ACTUATED PRIOR TO NORMAL AND BACKUP POWER LOSS, THE DAMPERS FAIL-SAFE WILL OPEN THE DAMPERS AUTOMATICALLY.

National Flood Hazard Layer FIRMette



SEE FOR REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FINAL LAYOUT

Legend

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A, C, X, Y
- With BFE or Depth Zone AE, AH, VE, VE-1R
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee, Sea Wall, etc. Zone X
- Area with Flood Risk due to Levee Zone X

OTHER AREAS

- Area of Minimal Flood Hazard Zone X
- Effective LOMR
- Area of Undetermined Flood Hazard Zone X

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transport
- Base Flood Elevation Line (BFE)
- Link of Study
- Jurisdiction Boundary
- Coastal Transport Baseline
- Purple Baseline
- Hydrographic Feature

MAP PANELS

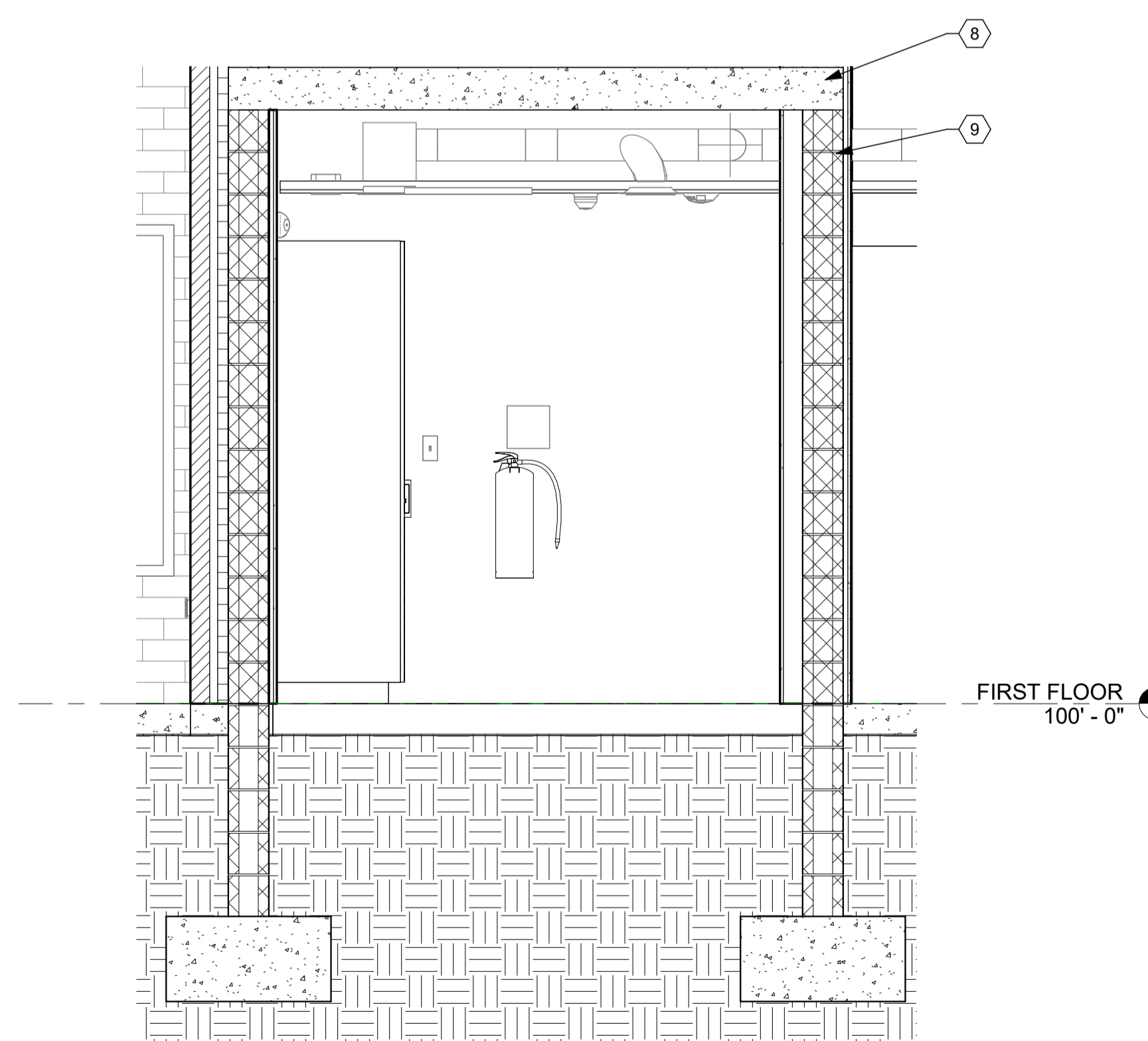
- Digital Data Available
- No Digital Data Available
- Unmapped

The plot displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The base map shown complies with FEMA's base map accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL, with annotations provided by FEMA. This map was reported on 10/29/2024 at 5:10 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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F4 STORM SHELTER SECTION
 1/2" = 1'-0"

CONSTRUCTION NOTES

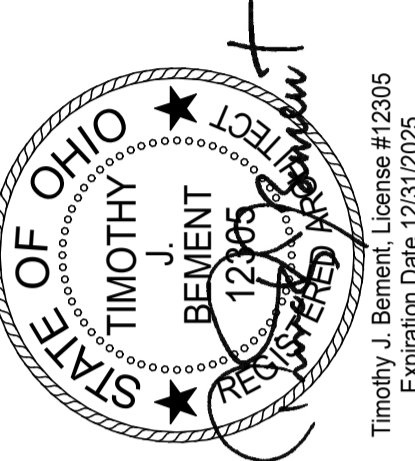
- (00) INDICATES CONSTRUCTION NOTE.
- SHADED AREA REPRESENTS ACTUAL CLEAR FLOOR AREA OF 35.70 SF. TOTAL ROOM AREA IS 59 SF.
 - (TC) STORAGE CABINET FOR WATER AND EMERGENCY SUPPLIES. REFER TO A8.05 FOR DETAILS.
 - ADA LAVATORY. REFER TO PLUMBING DRAWINGS AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
 - ADA TANK TYPE TOILET. REFER TO PLUMBING DRAWINGS AND MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
 - SIGN TYPE 3. REFER TO SIGNAGE LEGEND ON SHEET A0.3 FOR DETAILS.
 - SIGN TYPE 4. REFER TO SIGNAGE LEGEND ON SHEET A0.3 FOR DETAILS.
 - SIGN TYPE 5. REFER TO SIGNAGE LEGEND ON SHEET A0.3 FOR DETAILS.
 - 2 HR FIRE RATED CONCRETE LID. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
 - REFER TO HVAC DRAWINGS FOR DUCT PENETRATIONS. REFER TO STRUCTURAL DRAWINGS FOR SHROUD DETAILS.
 - CUBICLE CURTAIN. REFER TO SHEET A0.10 FOR DETAILS. BASIS OF DESIGN: INPRO CORPORATION, FORMATRAC, PVC CURTAIN TRACK; NOT LESS THAN 1-1/4" WIDE x 15/16" HIGH, CURTAIN GROMMETS: TWO-PIECE, ROLLED EDGE, RUSTPROOF, NICKEL PLATED BRASS; SPACED NOT MORE THAN 6".
 - WALL HUNG FIRE EXTINGUISHER. COORDINATE EXACT LOCATION WITH WALL MOUNTED MEP ITEMS.

GENERAL NOTES

A. THIS SHEET CONTAINS A GENERAL OVERVIEW OF TORNADO SHELTER INFORMATION. FOR FURTHER NOTES AND DETAILS REFER TO THE PERTINENT DISCIPLINE'S DRAWINGS CONTAINED IN THIS SET.

- : 1/2 HOUR RATED WALL
- : 2 HOUR RATED WALL

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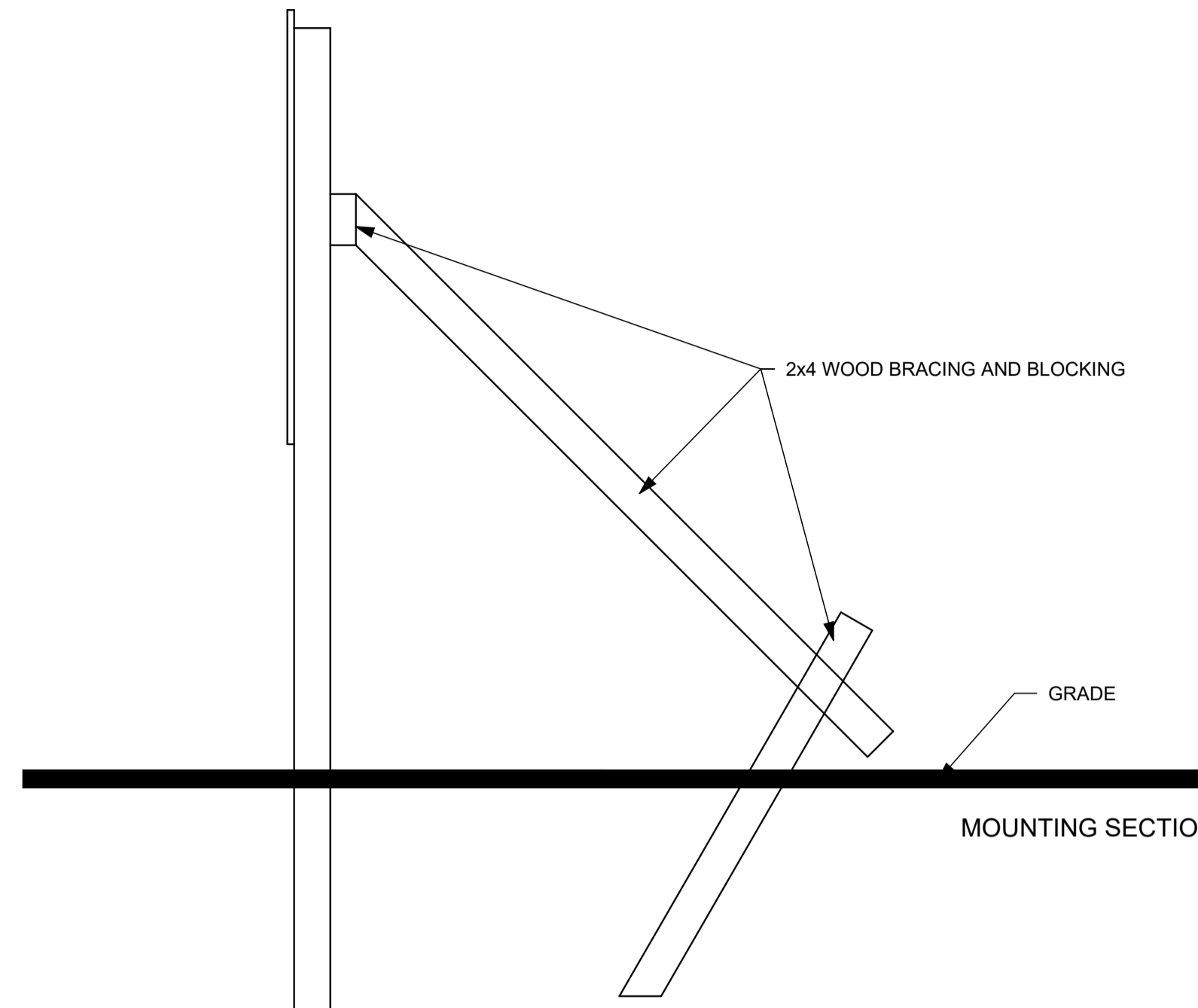
Renovation and Addition
Huber Heights Fire Station 23
 7435 Old Troy Pike, Dayton, Ohio 45424

ISSUE	
NO.	DESCRIPTION
12/18/2024	FOR CONSTRUCTION
DATE	12/18/2024
JOB NO.	4262.00
DRAWN	MSM
CHECKED	TJB
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TITLE STORM SHELTER	
SHEET NO.	

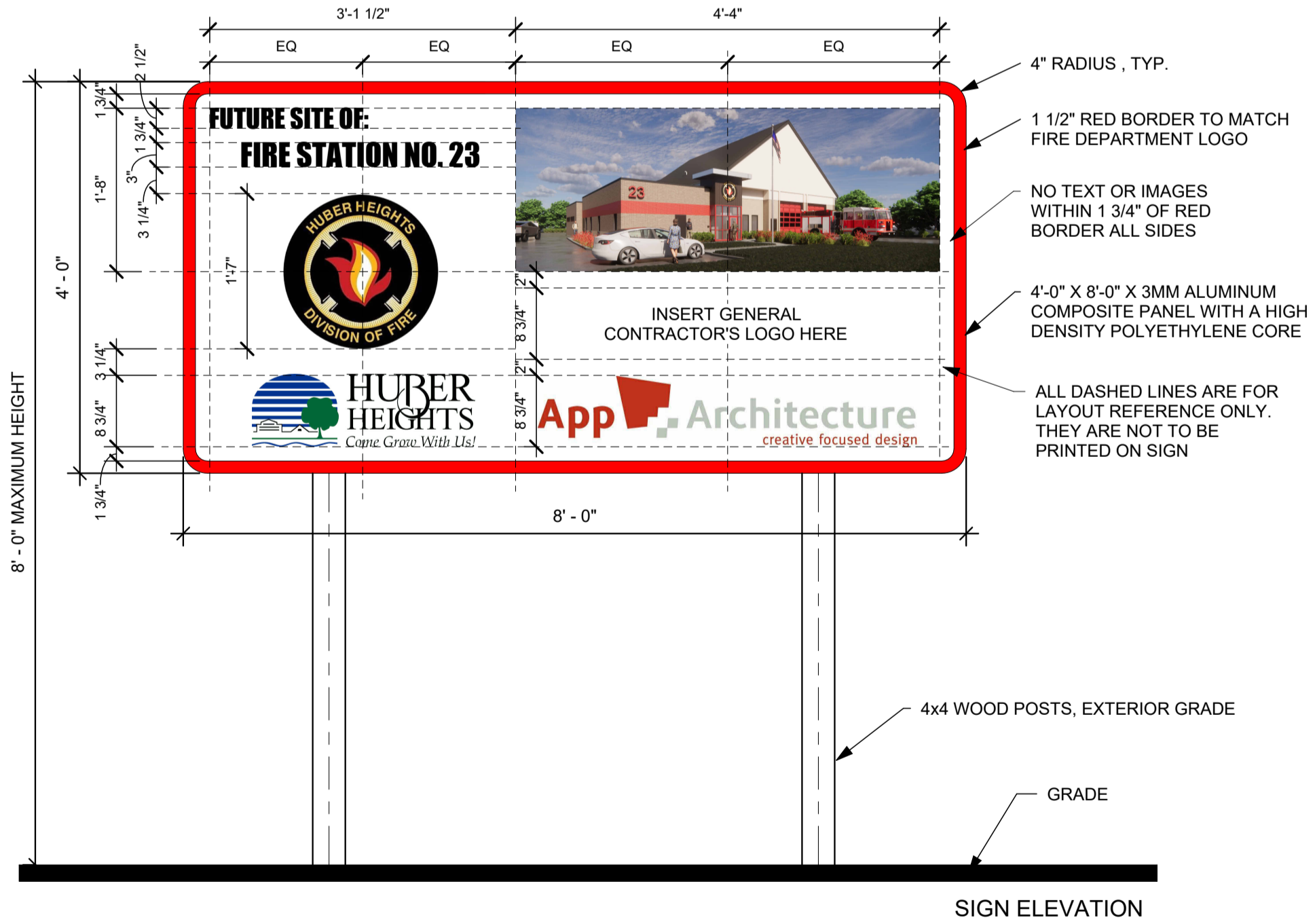
GO.2

1 | 2 | 3 | 4 | 5 | 6 | 7

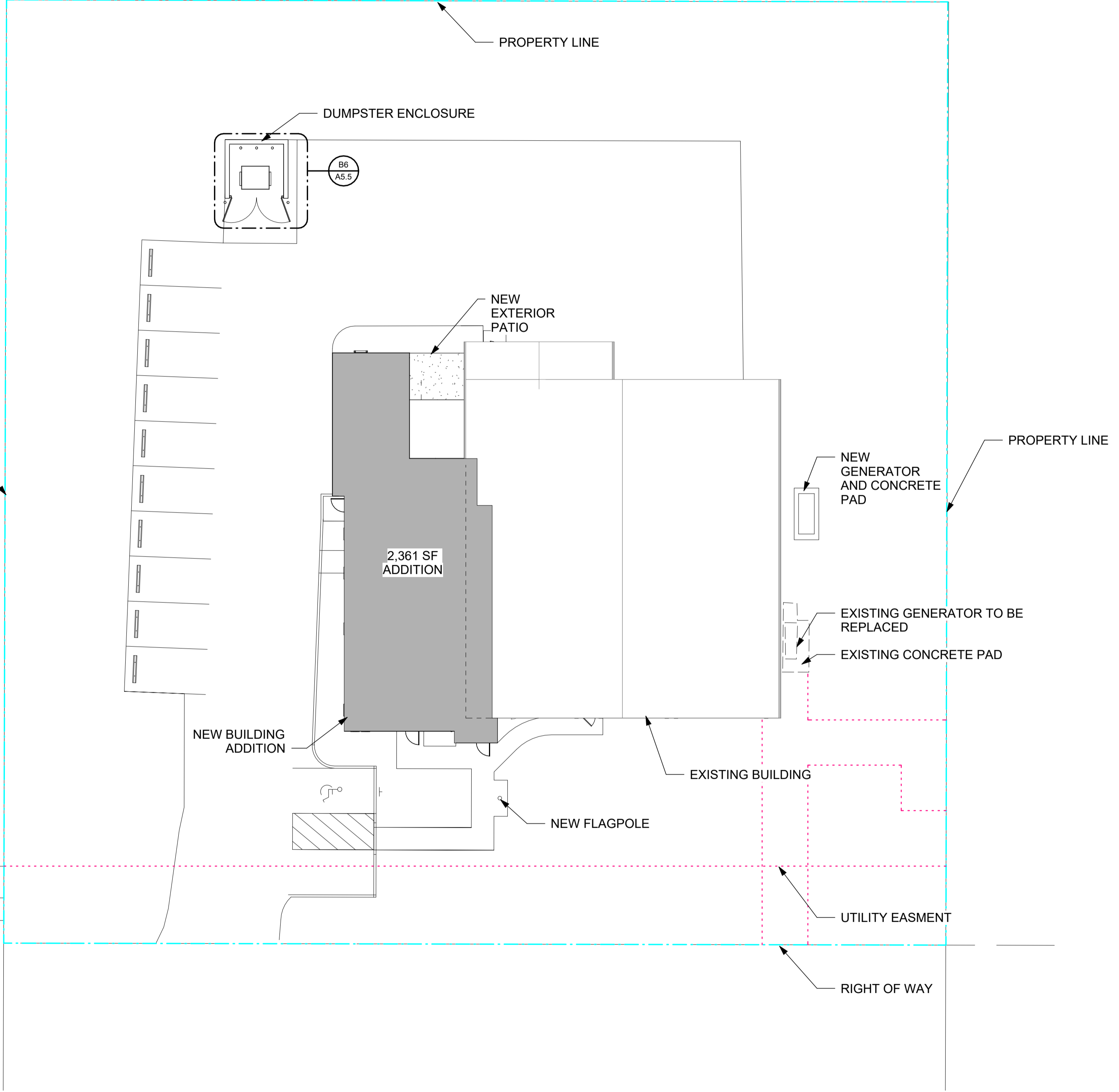
A
B
C
D
E
F



- CONSTRUCTION SIGN NOTES:**
- A. LEFT JUSTIFY "FUTURE SITE OF:"
 - B. CENTER JUSTIFY "FIRE STATION No. 65", FIRE DEPARTMENT & CONGER LOGOS
 - C. RIGHT JUSTIFY APP ARCHITECTURE AND BEAVERCREEK TWP LOGOS UNDER FIRE STATION IMAGE. MATCH WIDTH.
 - D. CONGER CONSTRUCTION GROUP & APP ARCHITECTURE LOGOS TO BE SAME HEIGHT. 10" +/-.
 - E. FIRE DEPARTMENT LOGO SIZED TO BE 2" BELOW "FIRE STATION No. 65" & 2" ABOVE CONGER LOGO.
 - F. ALL LETTERS TO BE UPPER CASE VINYL
 - G. ALL LETTERS TO BE SOLID BLACK
 - H. COORDINATE LOCATION WITH OWNER
 - I. PAINT ALL POSTS, BRACING AND BLOCKING TO MATCH BACKGROUND COLOR
 - J. ALL LOGOS AND ARTWORK TO BE VINYL GRAPHICS. IMAGERY TO BE PROVIDED BY ARCHITECT.
 - K. SIGN TO BE REMOVED UPON CONSTRUCTION COMPLETION.



F1 CONSTRUCTION SIGN
3/4" = 1'-0"



F4 SITE PLAN
1/16" = 1'-0"



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CHECKED	TJB

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TITLE
SITE COORDINATION PLAN

SHEET NO.
GO.3

1 | 2 | 3 | 4 | 5 | 6 | 7

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ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 18).

GENERAL NOTES AND DETAILS

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF HUBER HEIGHTS STANDARDS AND SPECIFICATIONS AND/OR THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATIONS 800 AND 832), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY OF HUBER HEIGHTS.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY OWNERSHIP

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

WATER AND SANITARY
CITY OF HUBER HEIGHTS
6131 TAYLORSVILLE RD
HUBER HEIGHTS, OHIO 45424
(937) 233-1423
ATTN: RUSSELL A. BERGMAN

CABLE
METRO FIBERNET
100 HARRISBURG DR
ENGLEWOOD, OHIO 45322
(812) 213-1318
ATTN: KEVIN MEHL

GAS
CENTERPOINT ENERGY
6500 CLYO RD
CENTERVILLE, OHIO 45459
(937) 312-2529
ATTN: ONUCHE CALDWELL

TELEPHONE
AT&T
3233 WOODMAN DR
DAYTON, OHIO 45420
(937) 296-3588
ATTN: JOHN BUSCHOR

ELECTRIC
AES OHIO
1900 DRYDEN RD
DAYTON, OHIO 45439
(937) 331-4521
ATTN: WILLIAM GOURLEY

CABLE
CHARTER
3691 TURNER RD
DAYTON, OHIO 45415
(937) 396-8611
ATTN: JUSTIN TEGTMEYER

OHIO UTILITIES PROTECTION SERVICE 2
WORKING DAYS BEFORE YOU DIG CALL
TOLL FREE 800-362-2764

UTILITY INTERFERENCE

IF, DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS NEEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

EXISTING TILE HOOKUPS

THE DRAINAGE TILE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL TILE REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE CITY OF HUBER HEIGHTS BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE CITY OF HUBER HEIGHTS. CONNECTION OF INTERSECTING DRAIN TILES AND THE PROPOSED STORM SEWER SHALL BE THROUGH MANUFACTURED TEES, UNLESS OTHERWISE APPROVED BY THE CITY OF HUBER HEIGHTS. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

GEOTECHNICAL ENGINEERING REPORT

CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE PROPOSED PROJECT AND PERFORM ALL GEOTECHNICAL WORK IN ACCORDANCE WITH THIS REPORT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, CITY OF HUBER HEIGHTS SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, CITY OF HUBER HEIGHTS SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

MUD

THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

EXISTING UTILITY CONFLICT NOTE

IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

DEWATERING AND BY-PASS PUMPING

COST OF ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCLUDED IN THE PERTINENT 803 AND 838 ITEMS.

CLEAN WATER NOTE

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

SANITARY SEWER/LATERAL NOTE

ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

STORM SEWER INSTALLATION

THIS WORK CONSISTS OF CONSTRUCTING STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR INSTALLING THESE ITEMS. THE WORK ALSO INCLUDES FURNISHING ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIPE, JOINTING, BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES AND SURFACES, CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR (I.E. PAVEMENT IN STREETS, ALLEYS AND DRIVEWAYS), DISPOSAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIALS, AND OTHER WORK NECESSARY TO COMPLETE THE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER, AND OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER SYSTEM. THE EXISTING STORM SEWER AND LATERALS SHOWN ON THE PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE PROPOSED TIE-INS TO THE EXISTING STORM PRIOR TO ANY STORM SEWER CONSTRUCTION. ALL TIE-INS SHALL BE THROUGH PREMANUFACTURED TEES OR HOLES INSTALLED USING A CORING MACHINE. PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS.

<u>TYPES OF PIPE PERMITTED</u>	<u>ODOT MATERIALS NUMBERS</u>
CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (CPSLP)	707.33
POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (PCDWP)	707.65
POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35)	707.45
REINFORCED CONCRETE PIPE	706.02

GENERAL NOTES

1. INSTALL AND TEST ALL UTILITIES PER THE LATEST VERSION OF THE CITY OF HUBER HEIGHTS STANDARDS.

2. ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER ODOT ITEM 659.

3. ALL CONCRETE OUTSIDE OF THE RIGHT-OF-WAY USED FOR HEAVY DUTY PAVEMENT(S) AND STANDARD DUTY PAVEMENT(S) SHALL BE ODOT QC-IP AND REINFORCED WITH CONCRETE FIBERS AS SPECIFIED IN THE PROPOSED PAVEMENT SECTION(S) OR AS NOTED HERE. ALL OTHER CONCRETE (WALKS, CURBS, ETC.) SHALL ALSO BE ODOT QC-IP. ALL CONCRETE SHALL BE REINFORCED WITH 1.5 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND 150, OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 3/4" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

4. CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.

5. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL ADA REGULATIONS AND STANDARDS.

6. ALL ITEMS ON SITE PLAN SHALL BE CONSTRUCTED PER THE LATEST VERSION OF THE CITY OF HUBER HEIGHTS STANDARDS.

STORM AND SANITARY CONDUITS/STRUCTURES AND RELATED WORK

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. CONTRACTOR SHALL ALSO ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL, AND TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES (CATCH BASINS, YARD DRAINS, MANHOLES, ETC.) SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

MAINTAINING TRAFFIC

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACILITY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROADWAYS MUST HAVE AT LEAST ONE LANE OPEN AT ALL TIMES. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

THE CONTRACTOR SHALL REFERENCE ODOT STANDARD DRAWING MT-95.30 FOR ANY LANE CLOSURE THAT MAY BE REQUIRED ON US 40.

SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

EXCAVATION AND EMBANKMENT

TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

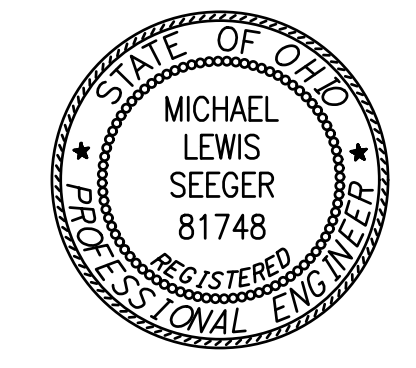
ALL EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER. TESTING MAY BE REQUIRED BY THE OWNER.

SAWCUT PAVEMENT JOINTS

MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT. JUST PRIOR TO ASPHALT OR CONCRETE PLACEMENT, ASPHALT MATERIAL SHALL BE PLACED ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED, THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT.



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CITY OF HUBER HEIGHTS
FIRE STATION 23 ADDITION
7435 TROY PIKE, DAYTON, OH 45424

ISSUE	
NO.	DATE DESCRIPTION
10/04/2024	75% DD
11/14/2024	75% CD
11/26/2024	95% CD
12/05/2024	100% CD QC
12/18/2024	FOR CONSTRUCTION

DATE	12-18-2024
JOB NO.	4262.00
DRAWN	DSF
CHECKED	MLS
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TITLE GENERAL NOTES	
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WATER LINE CROSSING SEPARATION

CONTRACTOR SHALL LOWER/DIP ANY EXISTING OR PROPOSED WATER LINES AS NEEDED TO OBTAIN AN 18" MINIMUM SEPARATION DISTANCE FROM THE WATER LINE TO ANY STORM OR SANITARY SEWER. WATER LINE SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY SEWERS. WHENEVER A SANITARY OR STORM SEWER AND WATER LINE MUST CROSS, THE SEWER AND WATER SHALL BE LAID AT SUCH AN ELEVATION THAT THERE IS AT LEAST 18" OF SEPARATION BETWEEN THE OUTSIDE WALLS OF THE TWO PIPES. ALSO ONE FULL LENGTH OF WATERLINE SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE STORM AND SANITARY SEWERS AS POSSIBLE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER SHALL BE CONSTRUCTED OF WATER LINE TYPE MATERIALS WHICH WOULD BE ABLE TO WITHSTAND A 100 PSI PRESSURE TEST (NOTE: DO NOT PRESSURE TEST SEWER TO 100 PSI). THESE REQUIREMENTS WILL EXTEND FOR THE DISTANCE OF THE ENTIRE SPAN. NO CHANGE OF MATERIALS ARE ALLOWED MID-SPAN. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

PAVEMENT MARKINGS

ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 640 AND 642. ALL PAVEMENT MARKINGS TO BE TYPE 1, UNLESS APPLICATION IS REQUIRED WHEN AIR AND PAVEMENT TEMPERATURES ARE BETWEEN 35 °F AND 50 °F, THEN OBTAIN APPROVAL FROM THE OWNER AND APPLY ONLY PRE-QUALIFIED TYPE 1A COLD WEATHER TRAFFIC PAINT MATERIALS PER ITEM 642 AND 740.

ALL MARKING LAYOUT AND COLOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

DOWNSPOUTS

THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

UTILITIES

CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, FIBER OPTIC, ETC.. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTILITIES TYING INTO THE BUILDING WITH ALL ARCHITECT PLANS (BUILDING, PLUMBING, ELECTRICAL, ETC.) BEFORE CONSTRUCTION.

ASPHALT PAVEMENT REPLACEMENT NOTE

ANY EXISTING PAVEMENT THAT IS TO BE REMOVED SHALL BE SAWCUT FULL DEPTH AND RESTORED TO MATCH THE EXISTING PAVEMENT CROSS SECTION UNLESS OTHERWISE NOTED IN THE PLANS.

ASPHALT

ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT EXCEPT FOR ODOT ITEM 401.20 ASPHALT BINDER PRICE ADJUSTMENT (ASPHALT CONCRETE BID ITEMS ARE NOT ELIGIBLE FOR ANY ASPHALT BINDER PRICE ADJUSTMENT).

ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

MODIFICATIONS

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER.

RESTORATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER.

REVIEW OF DRAINAGE FACILITIES

BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF HUBER HEIGHTS AND/OR OWNER.

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND DETENTION/RETENTION BASINS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

MISCELLANEOUS

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER ITEMS UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER DUE TO GRAFFITI OR VANDALISM DAMAGE.

OWNER COORDINATION NOTES

THE CONTRACTOR SHALL COORDINATE THE PROPOSED WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK ON SITE. IF THE CONTRACTOR IS TO ENGAGE IN ANY OPERATIONS THAT AFFECT THE EXISTING FACILITY OPERATIONS, THE CONTRACTOR SHALL COORDINATE THE SCHEDULING OF SUCH ACTIVITIES WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY SUCH OPERATIONS OR ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT, BRACING, AND OTHER DEVICES AS MAY BE REQUIRED OR AS DIRECTED BY OWNER'S REPRESENTATIVE OR THE ENGINEER TO PROTECT THE SAFETY OF THE PUBLIC, ADJACENT STRUCTURES, ROADWAY AND/OR UTILITIES. ALL WORK TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

GENERAL NOTES FOR CIVIL WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND IS TO INCLUDE SUCH COSTS AS A PART OF THE LUMP SUM PRICE ON THE PROJECT.

2. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE APPROPRIATE UNDERGROUND UTILITY MARKING SERVICE PRIOR TO THE START OF ANY CONSTRUCTION IN ORDER TO AVOID CONFLICTS WITH EXISTING UTILITIES. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR IS TO NOTIFY THE OWNER PRIOR TO THE START OF ANY WORK THAT WOULD BE IN CONFLICT WITH THE UTILITIES.

3. THE CONTRACTOR IS TO VISIT AND INVESTIGATE THE PROJECT SITE, PRIOR TO BIDDING, IN ORDER TO DETERMINE THE EXISTING GROUND AND SITE CONDITIONS. FOR SOIL TYPE AND GROUND WATER TABLE, THE CONTRACTOR IS ENCOURAGED TO UTILIZE ANY AVAILABLE DATA TO ESTIMATE GROUND CONDITIONS. SHOULD THE BIDDING CONTRACTOR REQUIRE ADDITIONAL TEST HOLES PRIOR TO BIDDING IN ORDER TO DETERMINE OR VALIDATE GROUND CONDITIONS, THIS CAN BE COMPLETED AT THE DISCRETION OF THE OWNER. NO TEST HOLES ARE TO BE DUG WITHOUT CONTACTING THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION AND WITHOUT RECEIVING WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE TO DO SO.

4. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS WITH REGARD TO EXCAVATION, SAFETY, QUALITY AND WORK PROGRESS. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THESE THROUGHOUT CONSTRUCTION OPERATIONS.

5. THE LOCATION OF MATERIALS STORED ON SITE MUST RECEIVE THE APPROVAL OF THE OWNER. IN GENERAL, MATERIALS SHOULD BE STORED SO AS TO MINIMIZE THE INCONVENIENCE TO THE OWNER.

6. IF EXCAVATED MATERIALS ARE FOUND TO BE CONTAMINATED, REMEDIATION WILL BE AT THE OWNER'S EXPENSE PRIOR TO REMOVAL FROM THE SITE OR DISPOSAL ON-SITE BY THE CONTRACTOR. THIS PROCESS WILL BE COORDINATED BETWEEN THE OWNER AND CONTRACTOR.

7. TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE BID SPECIFICATIONS AND IN ACCORDANCE WITH ALL APPLICABLE OSHA RULES AND REGULATIONS. IN ADDITION, THE OWNER MAY HAVE ADDITIONAL REQUIREMENTS FOR EXCAVATION AND TRENCHING ON OWNER PROPERTY THAT MAY BE MORE STRINGENT THAN CURRENT LOCAL OR OSHA REQUIREMENTS. IN THIS CASE, THE OWNER'S REQUIREMENTS ARE TO BE FOLLOWED UNLESS THIS ACTION WOULD BE CONSIDERED NON-COMPLIANT WITH CURRENT GOVERNING CODES OR REGULATIONS AS DEFINED BY LOCAL OR GOVERNING AUTHORITIES. WHERE A NON-COMPLIANCE ISSUE IS NOTED, THE CONTRACTOR IS TO MAKE THE OWNER AND ENGINEER AWARE OF THE GOVERNING CODE.

8. THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES, NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH THE EXCAVATED TRENCH. ANY DRAINAGE TILES ENCOUNTERED ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER AS PART OF THE RECORD DRAWINGS.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRS TO ANY UTILITY LINE(S) THAT THE CONTRACTOR DAMAGES UNLESS OTHERWISE CLEARLY THE RESPONSIBILITY OF THE UTILITY COMPANY.

10. THE CONTRACTOR WILL REPLACE ALL DAMAGED OR REMOVED DRIVES AND PAVEMENT WITH THE REQUIRED THICKNESS SHOWN ON THE PLANS OR MATCH EXISTING IF GREATER.

11. ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

12. CONTRACTOR SHALL USE PROPER EROSION CONTROL TECHNIQUES TO MAINTAIN GRADE PRIOR TO SEEDING.

13. CONTRACTOR TO REFER TO ODOT SPECIFICATION, ITEM 659 FOR SEEDING AND MULCHING UNLESS OTHERWISE SPECIFIED. CONTRACTOR WILL NOT SEED ANY AREA UNTIL OWNER HAS INSPECTED FINAL TOPSOIL GRADING.

14. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL FENCES, LAWN DECORATIONS, TREES, SHRUBS, PLANTING, VEGETATION ETC. WHICH IS DAMAGED, DISTURBED OR REMOVED DURING CONSTRUCTION.

15. DURING PAVING OPERATIONS, THE CONTRACTOR MUST SUBMIT A WRITTEN PLAN IDENTIFYING DRIVE AREAS WITHIN THE SITE THAT WILL BE SHUT DOWN FOR CONSTRUCTION OPERATIONS PRIOR TO START OF ANY WORK IN THOSE AREAS. CONTRACTOR MUST MAINTAIN A MINIMUM OF ONE LANE FOR TRAFFIC IN ANY AREAS SO DESIGNATED BY THE OWNER THROUGHOUT ALL CONSTRUCTION OPERATIONS.

ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1" IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.

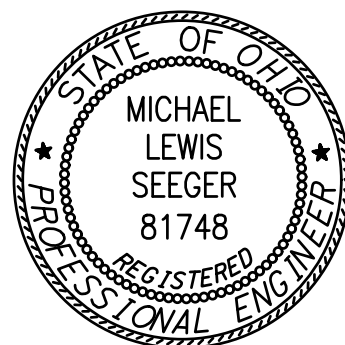
IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING. ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE. THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

PAYMENT FOR ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN, FOR ALL ABOVE OPERATIONS, SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.



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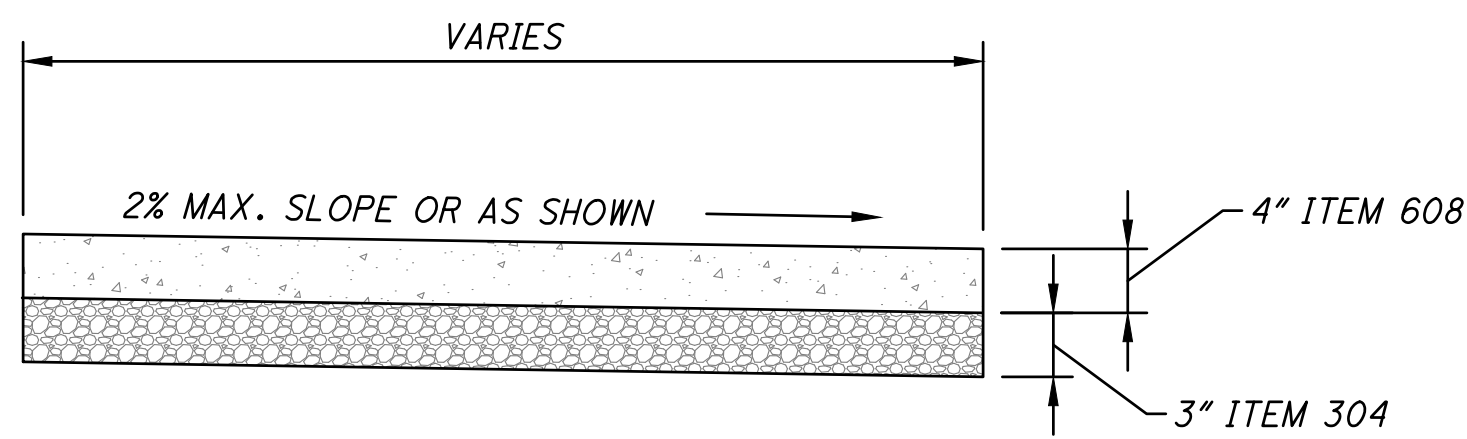
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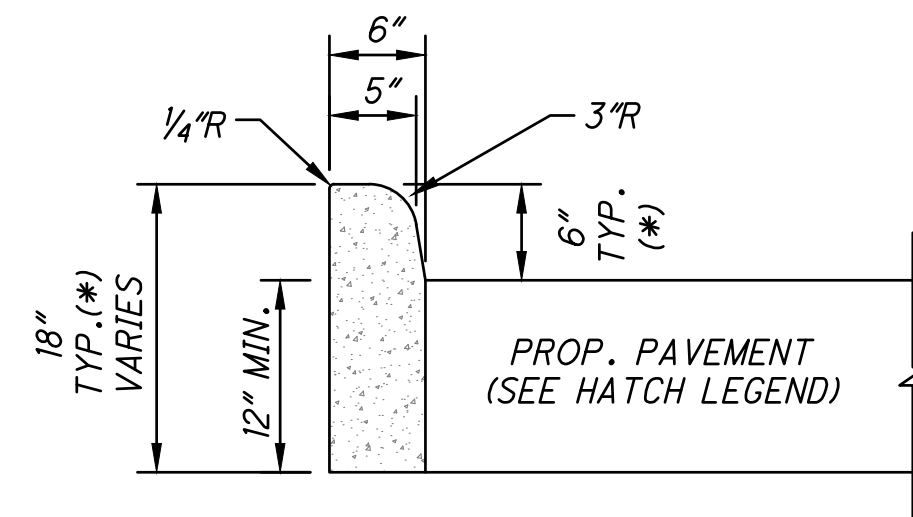
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NOTES

- A. WALK TO BE POURED ON 3" MINIMUM ODOT #304.
- B. PROVIDE EDGING AND BROOM FINISH TO ALL EXPOSED SURFACES.
- C. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE AND WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
- D. USE WHITE PIGMENTED CURING COMPOUND IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.
- E. ALL CONCRETE SHALL BE ODOT QC-IP.
- F. PROPOSED CONCRETE WALK SHALL BE JOINTED AS CLOSE TO SQUARE AS POSSIBLE. JOINT SPACING MAY VARY SLIGHTLY DEPENDING ON THE LENGTH AND WIDTH OF THE PROPOSED SIDEWALK AREAS. JOINT SPACING SHALL TYPICALLY RANGE FROM 4'X4' TO 10'X10'. IN ALL CASES THE SIDEWALK SHALL BE JOINTED SO THAT THE MAXIMUM ASPECT RATIO (OF PANEL LENGTH TO WIDTH) OF THE JOINTING IS 1.25:1 OR LESS. CONTRACTOR TO VERIFY METHOD AND TYPE OF CONTROL JOINTING WITH OWNER PRIOR TO PERFORMING WORK.
- G. SIDEWALK SHALL HAVE EXPANSION JOINTS EVERY 100'.

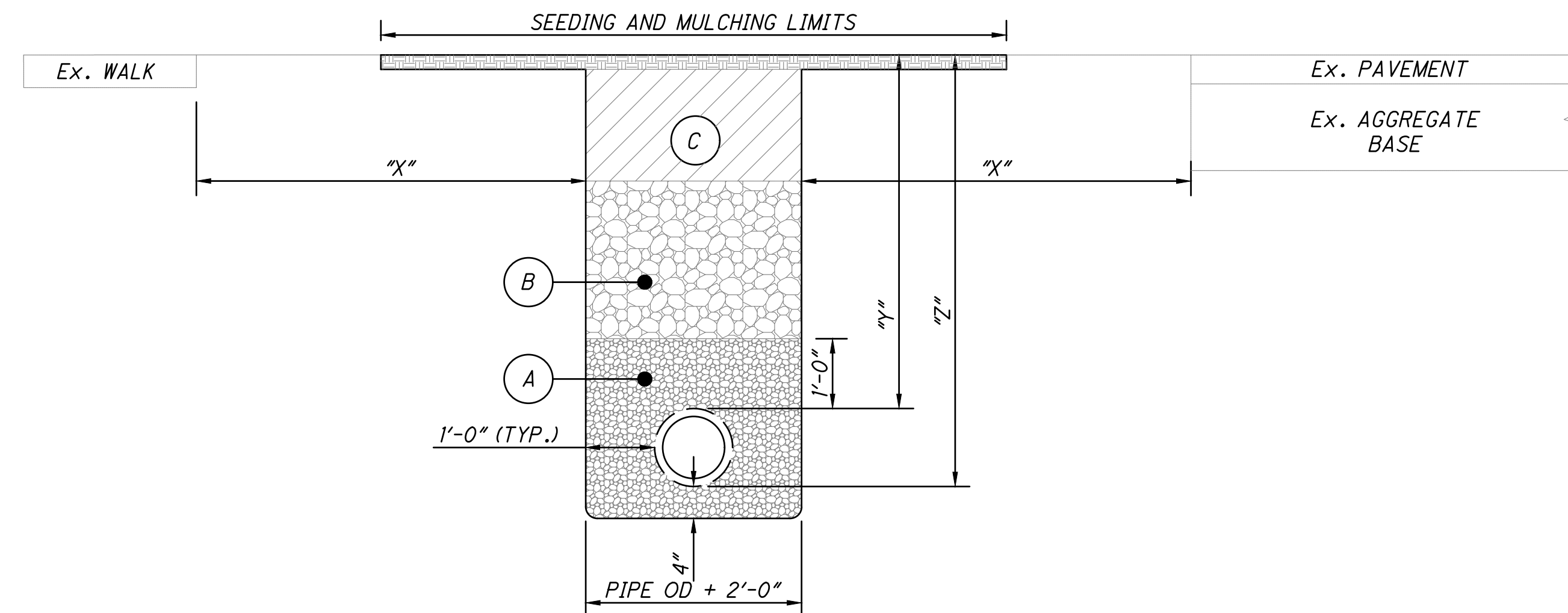
CONCRETE WALK
NTS



NOTES

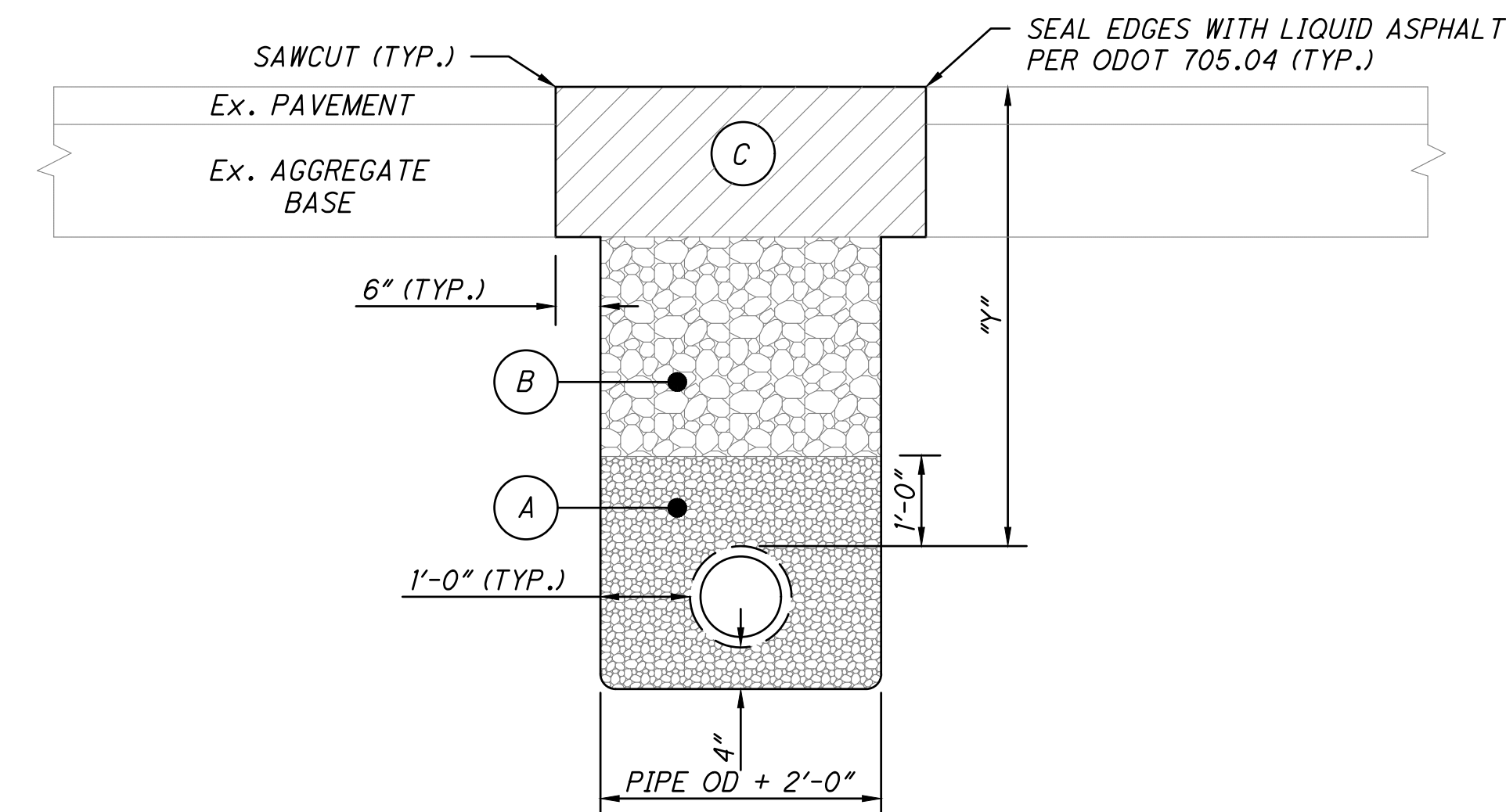
- A. (*) HEIGHT VARIES WITH CURB EXPOSURE. ASTERISK INDICATES PROPOSED TOP OF CURB SPOT GRADE ELEVATION WITH CURB EXPOSURE THAT VARIES FROM THE STANDARD 0.50' (6") CURB
- B. CONCRETE WORK SHALL MEET THE REQUIREMENTS SET FORTH IN ODOT ITEM 609 CURBING.
- C. CURBING SHALL HAVE CONTRACTION JOINTS EVERY 10' AND EXPANSION JOINTS EVERY 100'.
- D. MINIMUM OF 6" OF ODOT 304 SHALL BE PLACED UNDER CURBING.
- E. CURBING SHALL BE BACKFILLED IMMEDIATELY AFTER FORMS ARE REMOVED OR AS SOON AS PRACTICAL WHEN SLIPFORMING PRIOR TO OTHER CONSTRUCTION OPERATIONS.
- F. PROVIDE BROOM FINISH AND EDGING TO ALL EXPOSED SURFACES.
- G. APPLY WHITE PIGMENTED CURING COMPOUND ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.
- H. ALL CONCRETE SHALL BE ODOT QC-IP.
- I. CONCRETE TO INCLUDE 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO SYNTHETIC MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

TYPE 6 BARRIER CURB
NTS



OUTSIDE PAVEMENT AREAS

- "X"= DISTANCE FROM EDGE OF TRENCH TO EDGE OF CLOSEST PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS.
- "Z"= DISTANCE FROM TOP OF BEDDING TO FINISH SURFACE.
- "Y"= DEPTH OF COVER FOR PROPOSED CONDUIT
 WATER MAINS.....4'-6" MIN. (REFER TO PROFILE)
 STORM SEWERS.....2'-0" MIN. (REFER TO PROFILE)
 SANITARY SEWERS.....4'-0" MIN. (REFER TO PROFILE)



IN PAVEMENT AREAS

NOTES

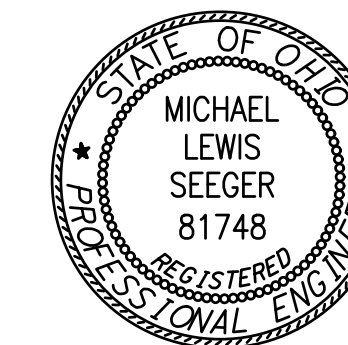
- (A) BEDDING SHALL BE PER ODOT 703.11 "STRUCTURAL BACKFILL FOR 611 BEDDING AND BACKFILL" TYPE 3 (#57 OR #67 AGGREGATE), OR OTHER APPROVED EQUIVALENT BY THE MUNICIPALITY. THERE SHALL BE 4" MIN. BEDDING BELOW THE PIPE. THE FOLLOWING BEDDING MATERIAL SHALL BE USED PER PROPOSED CONDUIT:
 - WATER MAIN, WATER SERVICES, FIRE HYDRANTS AND APPURTENANCES - SHALL BE NATURAL CRUSHED STONE OR NATURAL GRAVEL.
 - STORM AND SANITARY SEWERS - SHALL BE CRUSHED LIMESTONE OR NATURAL CRUSHED STONE.
- (B) STRUCTURAL BACKFILL - DENSITY TEST TO 95% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED BY MUNICIPALITY TO BE COMPLETED BY A CERTIFIED COMMERCIAL TESTING LABORATORY.

FOR "OUTSIDE PAVEMENT AREAS":
 ALL TRENCHES WHERE "X" IS GREATER THAN "Z", THE BACKFILL MATERIAL SHALL BE COMPACTED NATIVE MATERIAL IN 12" MAXIMUM LIFTS OR AS APPROVED BY THE MUNICIPALITY. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 3" DIAMETER.

ALL TRENCHES WHERE "Z" IS GREATER THAN "X", THE BACKFILL MATERIAL SHALL BE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE). THE AGGREGATE SHALL BE COMPACTED IN 12" MAXIMUM LIFTS AND BE USED UNTIL THE BACKFILL HEIGHT RESULTS IN "X" BEING GREATER THAN "Z" AT WHICH TIME NATIVE BACKFILL CAN BE USED.

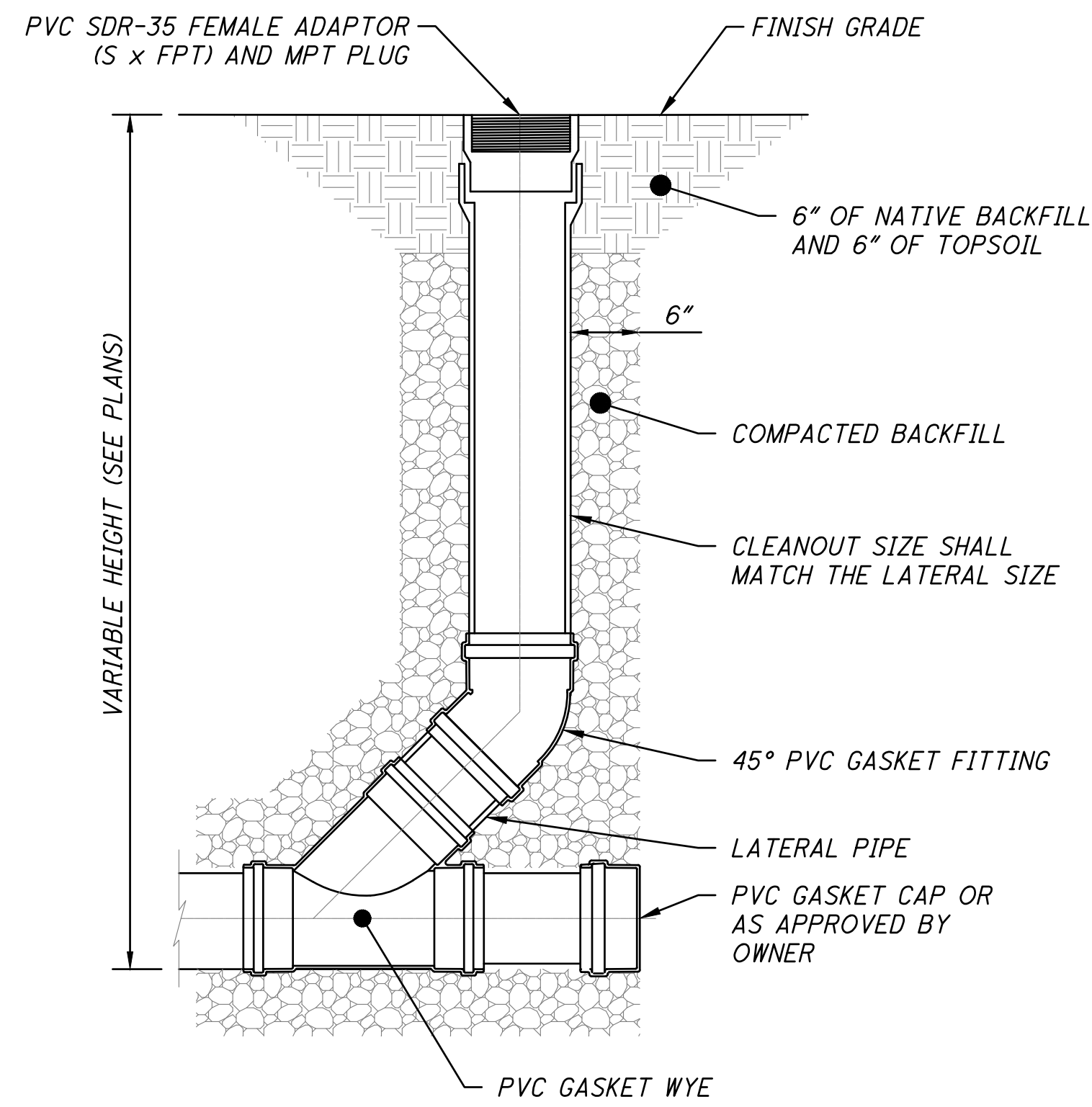
FOR "IN PAVEMENT AREAS":
 ALL TRENCHES SHALL HAVE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE) BACKFILL PLACED FROM THE TOP OF THE BEDDING TO THE BOTTOM OF THE ROADWAY BASE.
- (C) ALL "OUTSIDE PAVEMENT AREAS" SHALL RECEIVE A MIN. OF 6" OF TOPSOIL OVER THE COMPACTED MATERIAL AND THEN SEEDED PER ODOT 659. ALL "IN PAVEMENT AREAS" SHALL FOLLOW THE CORRESPONDING PAVEMENT COMPOSITION PROVIDED IN THE HATCH LEGEND. THE TRENCH DETAIL SHOWS THE PAVEMENT REPAIR LIMITS. ANY PAVEMENT REPAIR BEYOND THIS WILL BE AT THE COST OF THE CONTRACTOR.

TRENCH DETAIL
NTS

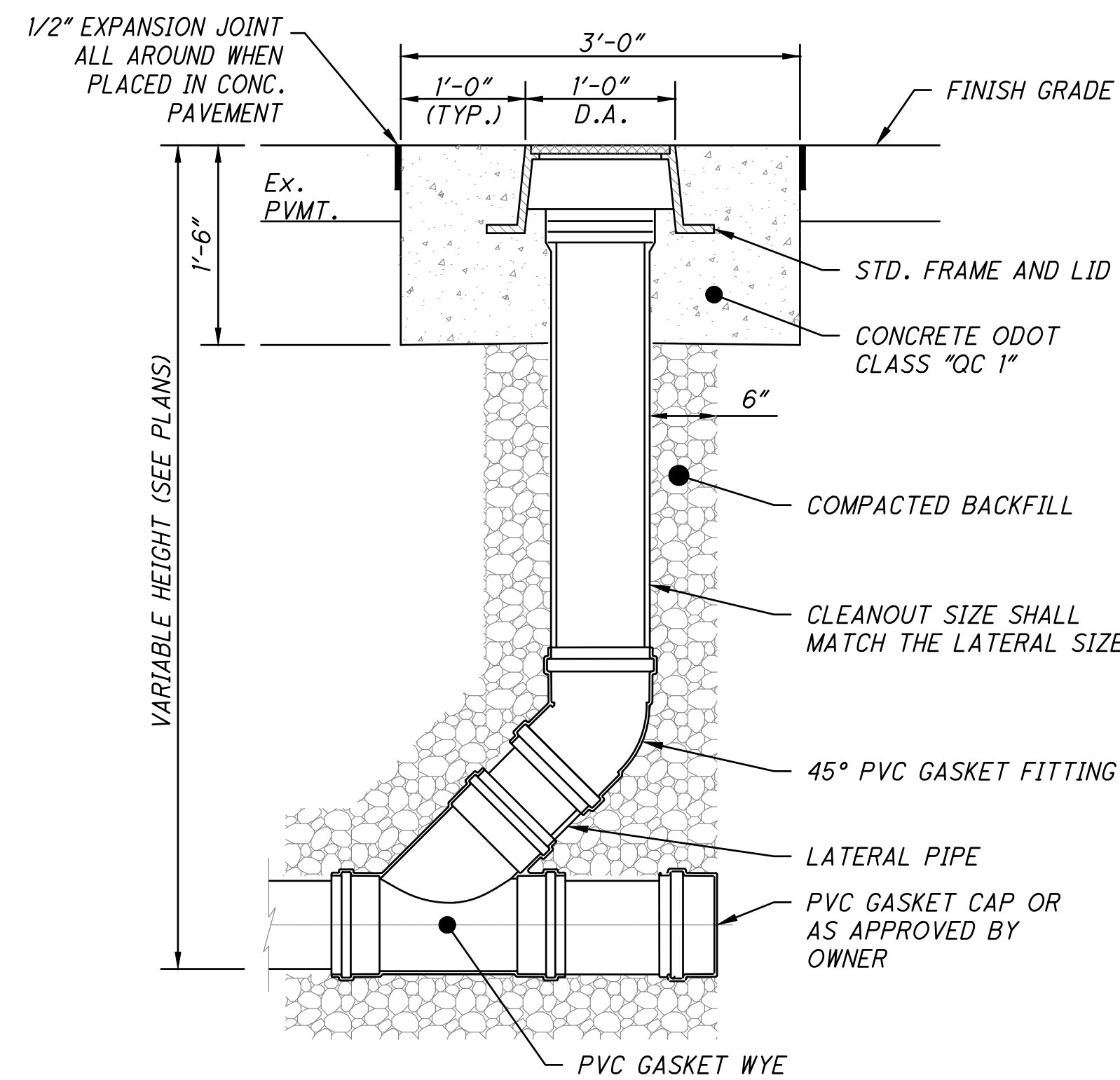


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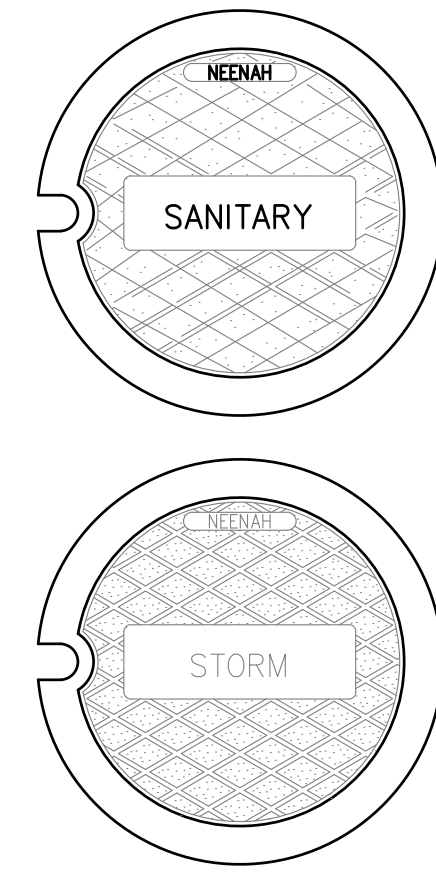
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**ONE-WAY CLEANOUT DETAIL
(NON-TRAFFIC AREAS)**

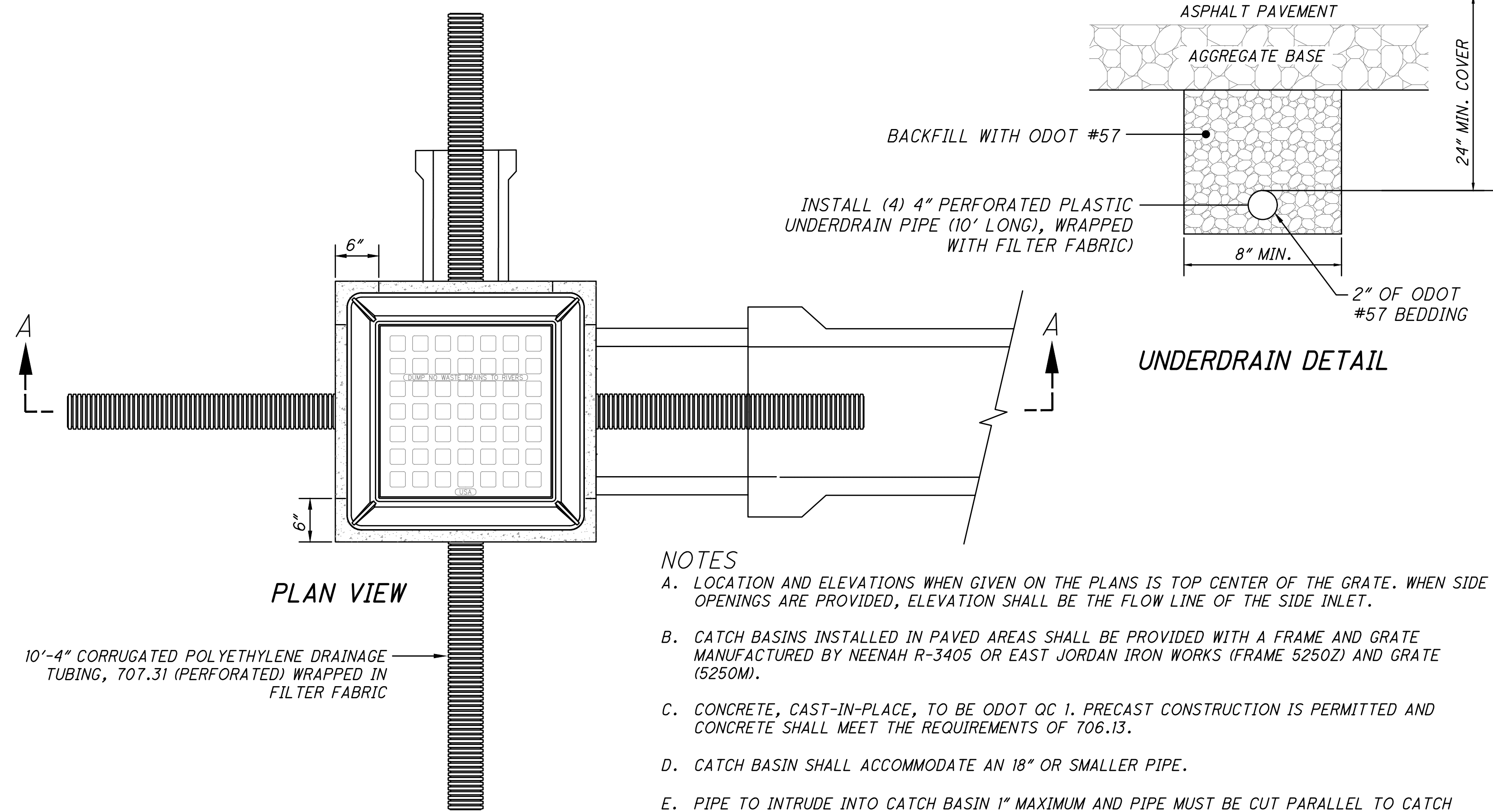


**ONE-WAY CLEANOUT DETAIL
(TRAFFIC AREAS)**

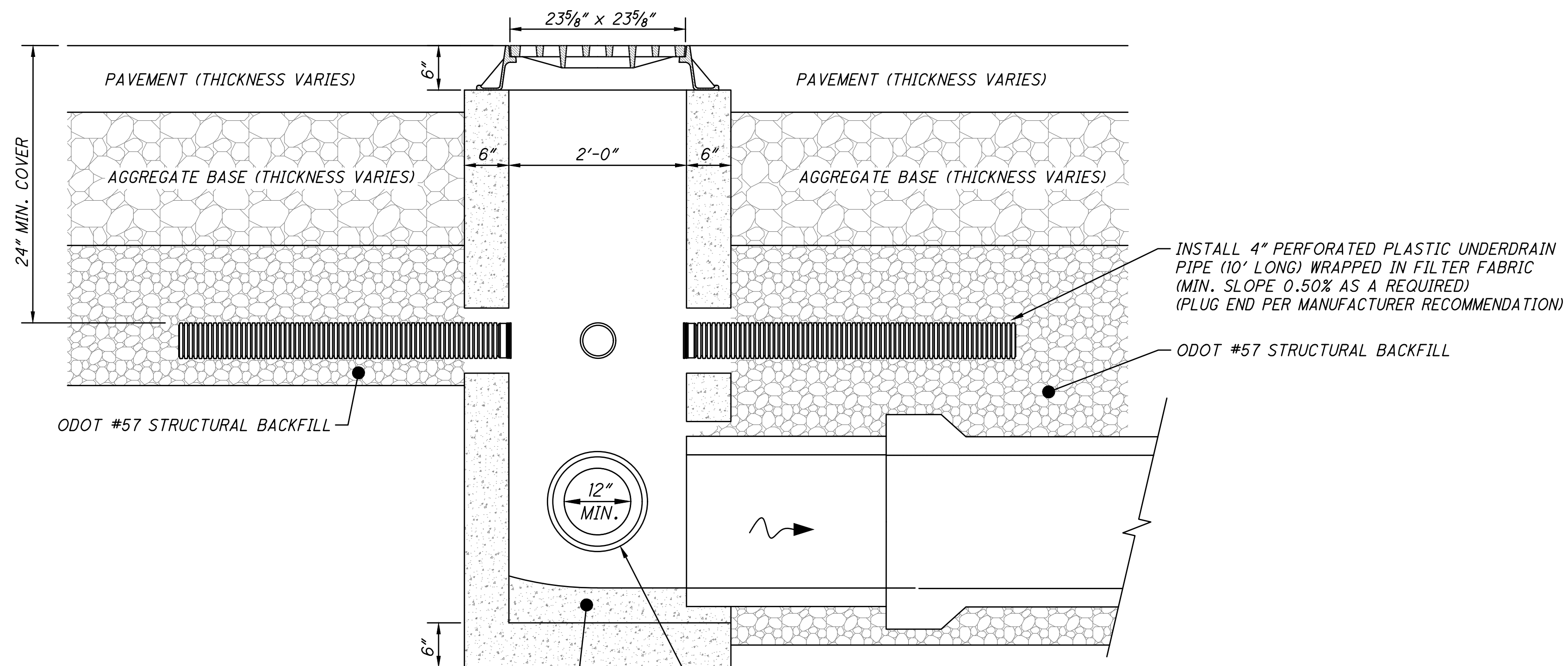


CLEANOUT LID

- NOTES**
- A. SANITARY CLEANOUT REQUIRED AT THE R/W OR EASEMENT LINE UNLESS OTHERWISE SHOWN IN THE PLANS.
 - B. CLEANOUT MATERIALS SHALL BE SCH. 40 (GLUED JOINTS) OR SDR-35 PVC AND THE DIA. SHALL MATCH THE LATERAL PIPE DIA.
 - C. TRACER WIRE REQUIRED FOR EACH SANITARY SEWER LATERAL FROM THE MAIN TO THE CLEANOUT. TRACER WIRE SHALL BE EXTENDED UP THE CLEANOUT RISER TO A POINT JUST BELOW CLEANOUT CAP WHERE A 3/16" HOLE SHALL BE DRILLED THROUGH THE WALL OF THE PIPE.
 - D. CLEANOUT FRAME AND LID SHALL BE NEENAH R-1976, EJIW 1578ZPT FRAME/1578A LID, OR SIGMA VB2276. LID MARKED "SANITARY" OR "STORM".
 - E. THE CLEANOUT AND ALL THE COMPONENTS SHOWN IN THE DETAILS SHALL BE INCIDENTAL TO THE CORRESPONDING UTILITY LATERAL INSTALLATION COST.



- NOTES**
- A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.
 - B. CATCH BASINS INSTALLED IN PAVED AREAS SHALL BE PROVIDED WITH A FRAME AND GRATE MANUFACTURED BY NEENAH R-3405 OR EAST JORDAN IRON WORKS (FRAME 5250Z) AND GRATE (5250M).
 - C. CONCRETE, CAST-IN-PLACE, TO BE ODOT OC 1. PRECAST CONSTRUCTION IS PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13.
 - D. CATCH BASIN SHALL ACCOMMODATE AN 18" OR SMALLER PIPE.
 - E. PIPE TO INTRUDE INTO CATCH BASIN 1" MAXIMUM AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. CONTRACTOR TO USE NON-SHRINK GROUT COMPLETELY SEAL AROUND THE PIPE AND CATCH BASIN.
 - F. THE CONTRACTOR SHALL ENSURE THE FRAME IS SECURELY BOLTED/FASTENED TO THE CATCH BASIN DURING INSTALLATION IN ALL PAVED AREAS (GRAVEL, ASPHALT AND CONCRETE).



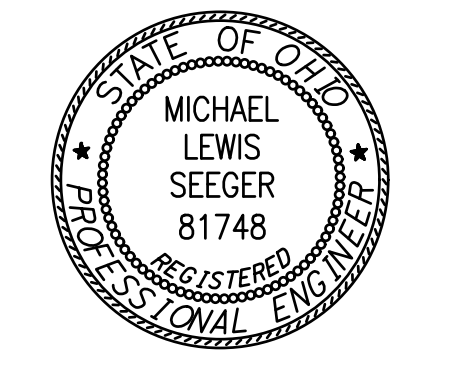
- CONTRACTOR TO PROVIDE GROUT IN THE BOTTOM OF THE CATCH BASIN TO ELIMINATE THE SUMP IF THE LOWEST PIPE INVERT HAS A BELL
- ALL PIPES CONNECTIONS SHALL HAVE A PREFORMED HOLE

2-2C CATCH BASIN (PAVED AREAS, WITH UNDERDRAINS)

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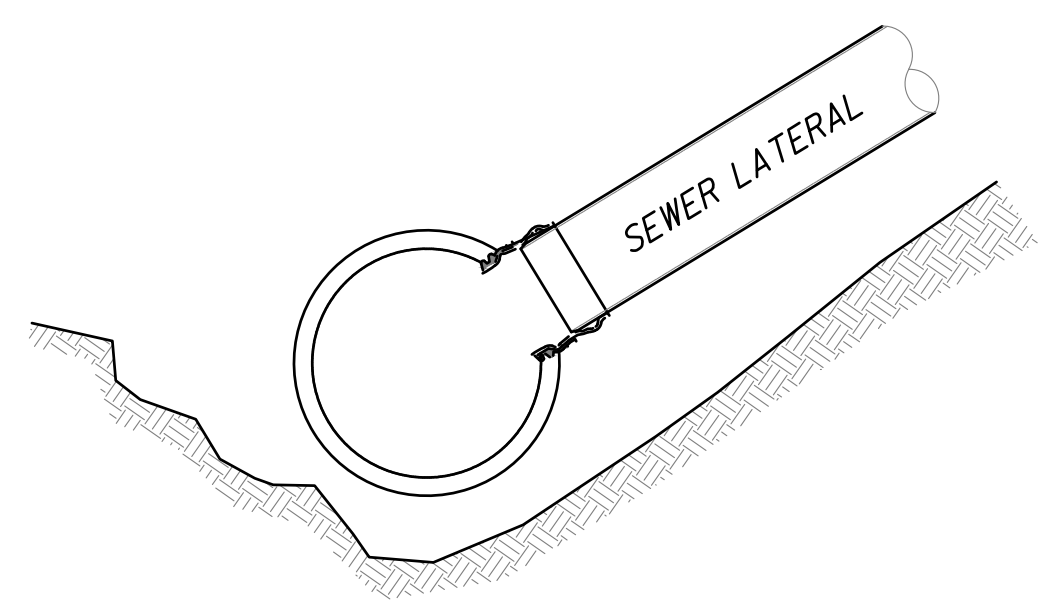
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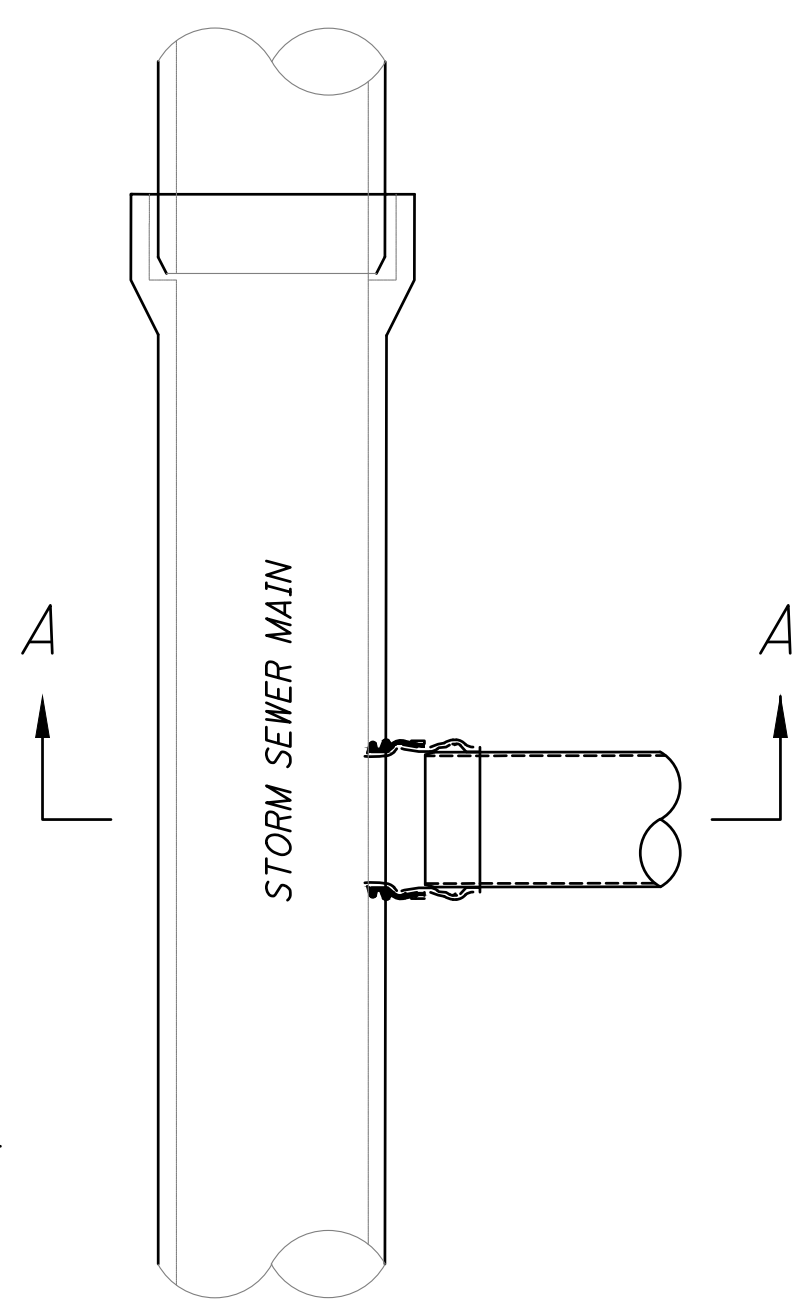
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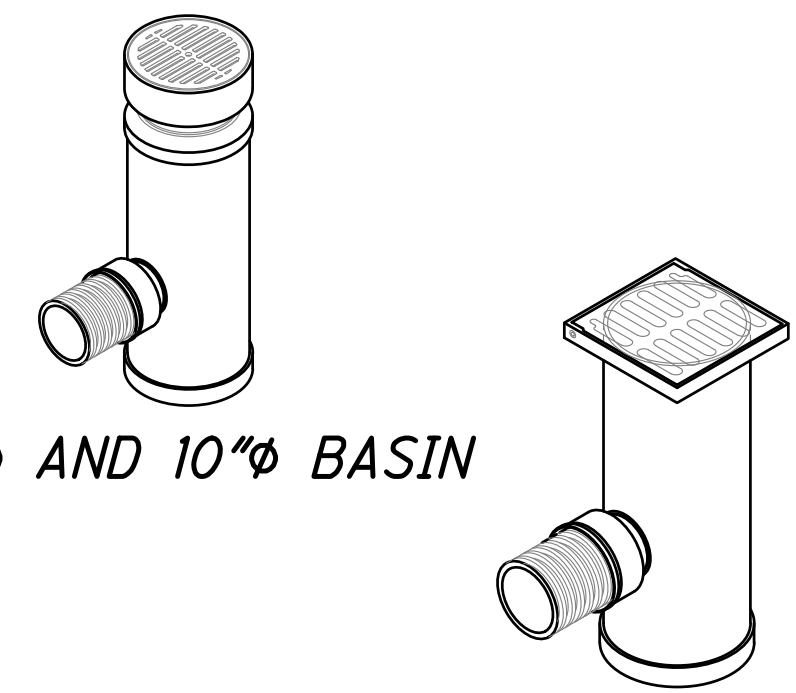


SECTION A-A



- NOTES**
- A. THE INSERTA TEE GASKETED CONNECTION FITTING TYPE SHALL MATCH THE STORM SEWER MAIN MATERIAL AND BE MANUFACTURED BY INSERTA FITTINGS CO. OR EQUAL.
 - B. RECOMMEND CUTTING HOLE WITH A HOLE SAW FOR PVC PIPE AND A DIAMOND BIT FOR CONCRETE OR CLAY PIPE. THE HOLE SAW SIZE SHOULD FOLLOW THE MANUFACTURERS RECOMMENDATIONS. CONTRACTOR IS RESPONSIBLE TO FIX ANY LOOSE CONNECTIONS DUE TO IMPROPER HOLE SIZE.
 - C. INSERTA TEES SHALL BE USED WHEREVER POSSIBLE AND BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

INSERTA TEE (LATERAL TO MAIN) CONNECTION
NTS

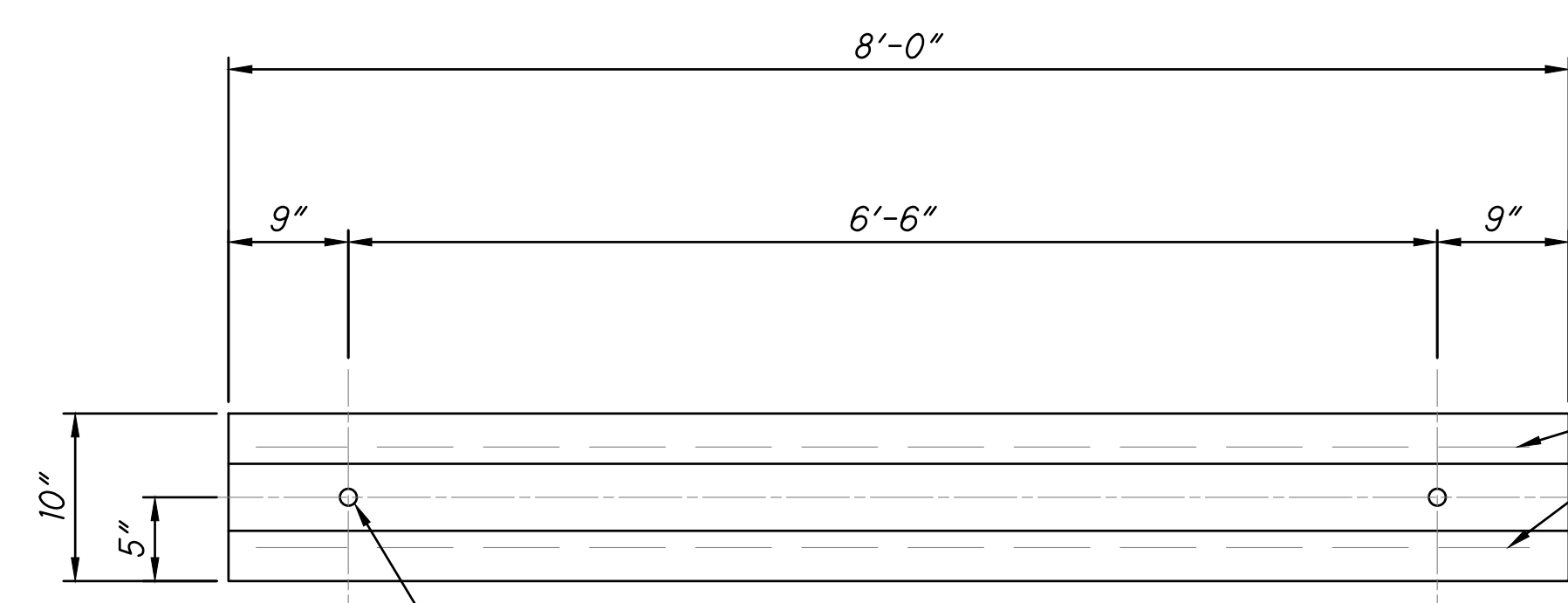


8"φ AND 10"φ BASIN

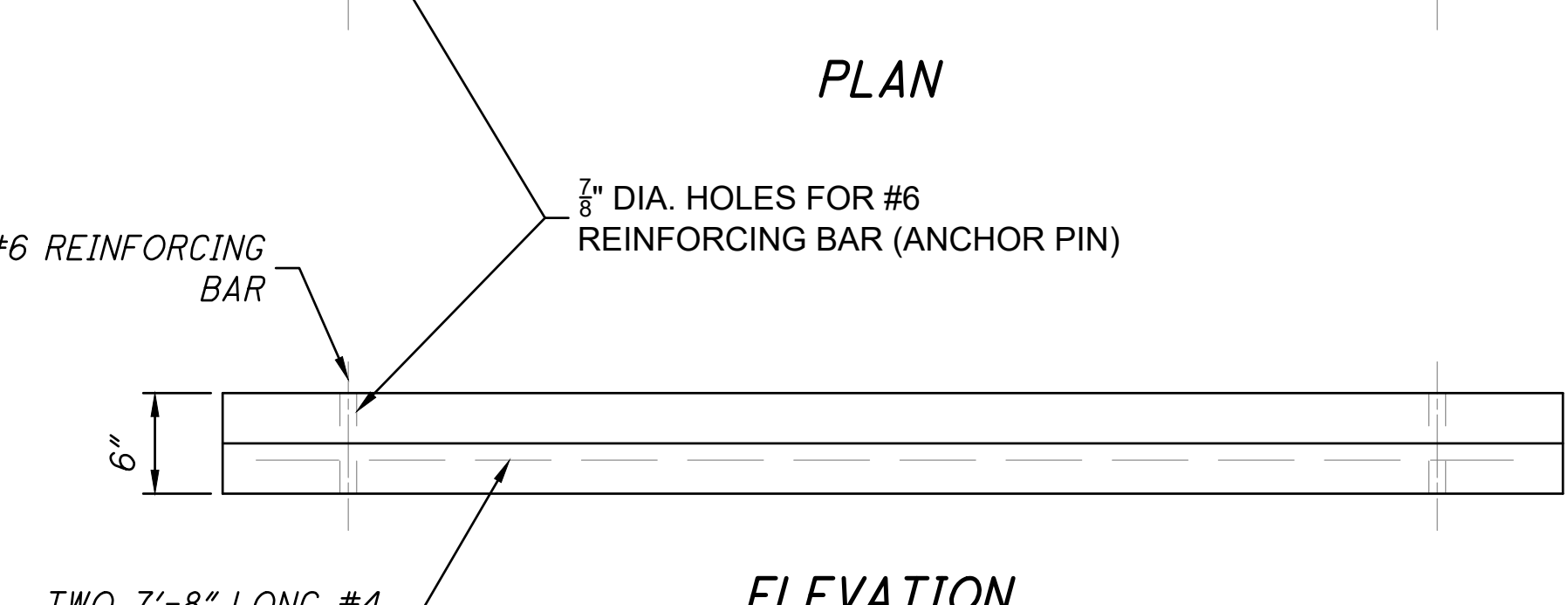
12"φ AND 15" φ BASIN

- NOTES**
- A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE.
 - B. THE BASIN DIAMETER SHALL BE DETERMINED BY THE BASIN MANUFACTURER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE BASIN MANUFACTURER, NYLOPLAST, TO DETERMINE THE REQUIRED BASIN DIAMETER BASED ON THE PIPING CONFIGURATION AND TO SUPPLY THE NEEDED BASIN DIAMETER. CONTRACTOR TO INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - C. THE FRAME AND GRATE SHALL BE THE STANDARD OPTION DUCTILE IRON PER ASTM A536 GRADE 70-50-05. (NYLOPLAST - 8" #0899CGS, 10" #1099CGS, 12" #1299CGS.....36" #3099CGS). FOR LANDSCAPE AREAS THE FRAME AND GRATE SHALL BE THE (NYLOPLAST DOME GRATE: #0899CGD, #1099CGD, #1299CGD.....30" #3099CGD).
 - D. THE BASINS SHALL BE MANUFACTURED FROM PVC PIPE STOCK (RAW MATERIAL PER ASTM D1784 CELL CLASS 12454), UTILIZING A THERMOFORMING PROCESS TO REFORM THE PIPE STOCK TO SPECIFIED CONFIGURATION. A WATERTIGHT CONNECTION SHALL CONFORM TO ASTM D3212. FLEXIBLE ELASTOMERIC SEALS SHALL CONFORM TO ASTM F477. PER ASTM D1784 CELL CLASS 12454. (NYLOPLAST - 8" #2808AG, 10" #2810AG, 12" #2812AG.....36" #2836AG)
 - E. THE BASIN ADAPTOR CONNECTIONS HAVE THE CAPABILITY TO CONNECT INTO VARIOUS TYPES (HDPE, PVC SDR-35, PVC SCG-40, PVC C900, CORRUGATED/RIBBED PVC).
 - F. ALL YARD DRAINS THAT ARE INSTALLED WITHIN PLANTING BEDS AND/OR MULCH BEDS SHALL HAVE A BEEHIVE/DOME GRATE WITH A STONE COLLAR SURROUNDING THEM TO PREVENT MULCH FROM WASHING INTO THE BASIN. STONE COLLAR TO BE 6" WIDE BY 6" THICK AROUND THE ENTIRE PERIMETER OF THE BASIN AND CONSIST OF 1" TO 2" ROUND RIVER ROCK. CONTRACTOR SHALL FASTEN/BOLT DOWN GRATE TO BASIN TO ENSURE GRATE IS SECURELY FASTENED IN PLACE.
 - G. IF GRATES ARE LOCATED WITHIN PAVED OR WALKING AREAS, GRATES MUST BE SAFE FOR PEDESTRIAN TRAFFIC PER ADA REQUIREMENTS, BE LOCKING, BE DUCTILE IRON, AND MEET H-10 LOADING.

YARD DRAIN
NTS

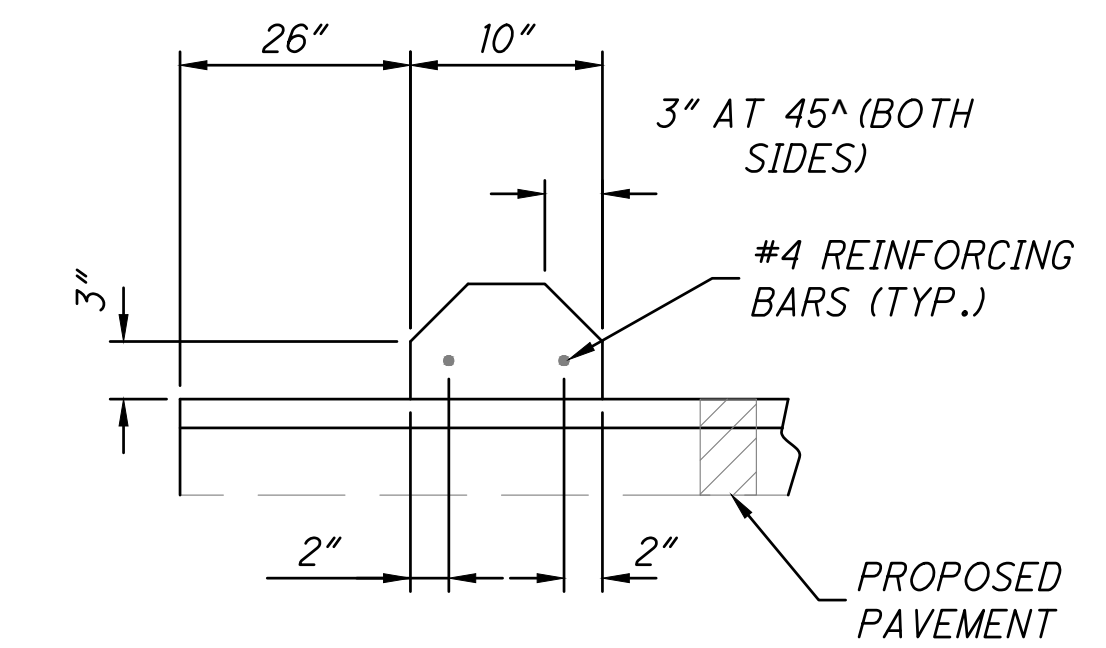


PLAN



ELEVATION

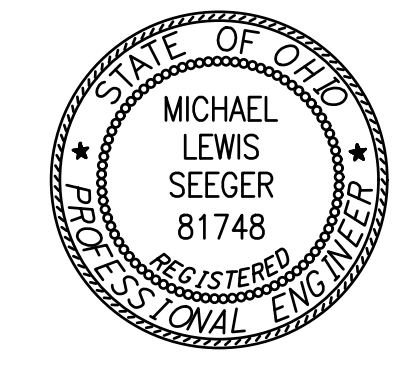
CONCRETE PARKING BLOCK DETAIL
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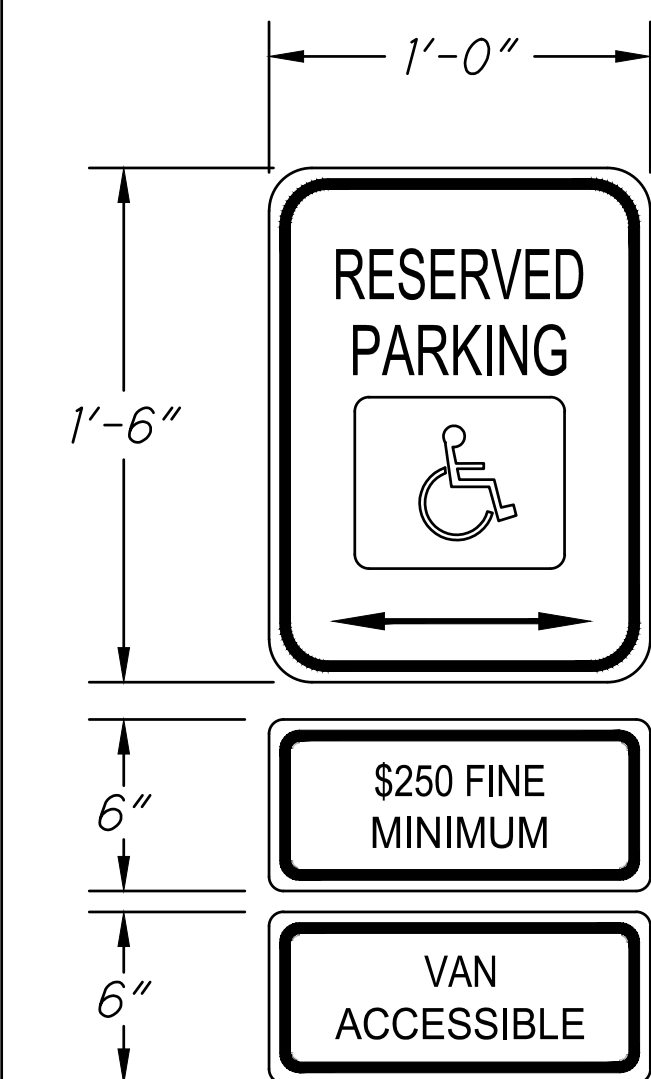
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TITLE	
GENERAL DETAILS	

SHEET NO.
C0.5

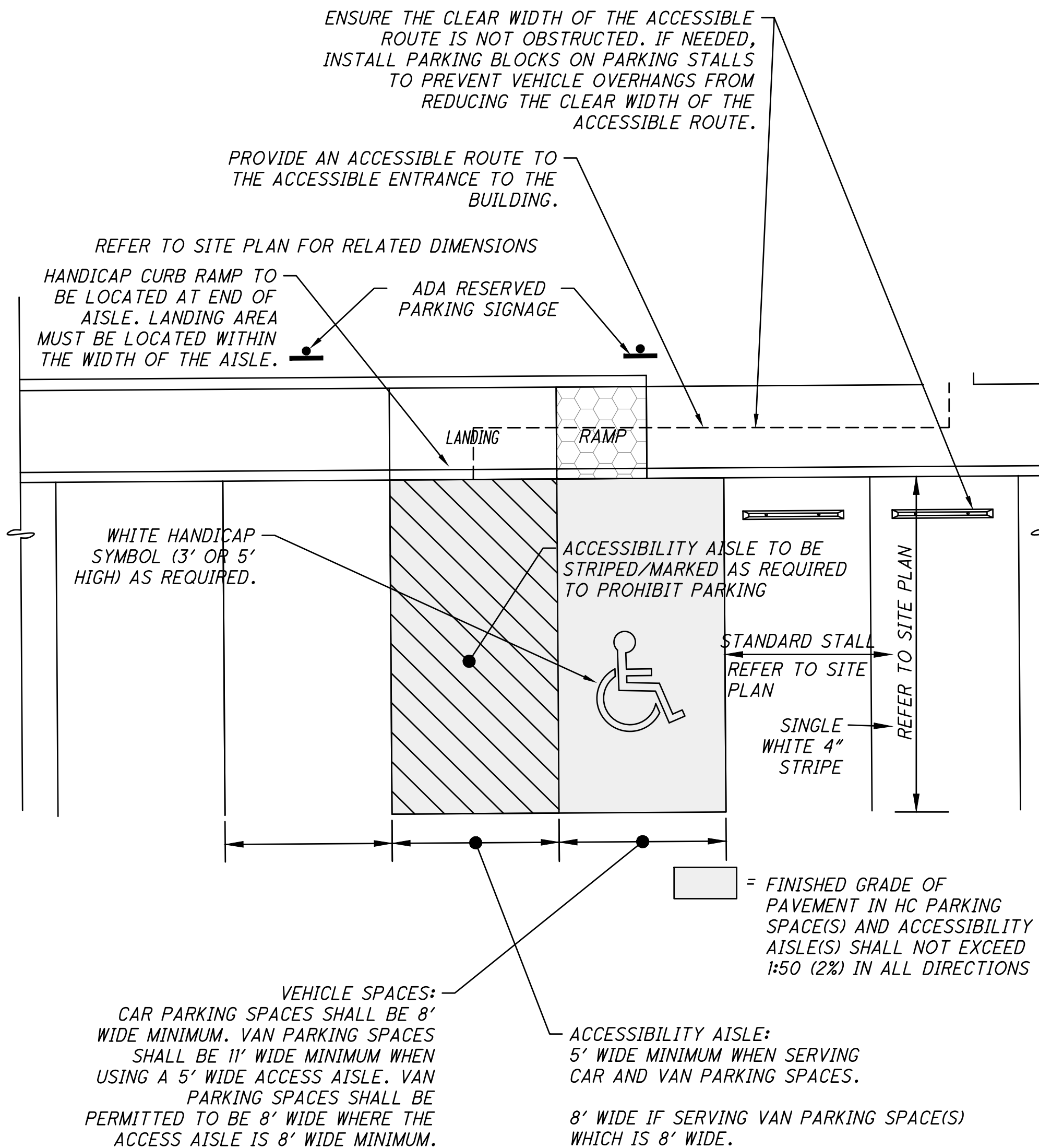
NUMBER OF PARKING SPACE REQUIREMENTS	
TOTAL NUMBER OF PARKING SPACES PROVIDED	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2 PERCENT OF TOTAL
1001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000

NOTE: ONE OUT OF EVERY (6) ACCESSIBLE PARKING SPACES, BUT NOT LESS THEN ONE, IS REQUIRED TO BE VAN ACCESSIBLE



- NOTES**
- A. SIGNS: "RESERVED PARKING" SIGN (USDOT STANDARD R7-8 SIGN). THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER. THE SIGN MUST BE SUPPLEMENTED WITH A "\$250 FINE MINIMUM" SIGN (USDOT STANDARD R7-8b SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7-8a SIGN) AS APPLICABLE. CONFIRM WITH LOCAL REGULATIONS.
 - B. A U.S. DEPARTMENT OF TRANSPORTATION R7-8 (RESERVED PARKING) AND SUPPLEMENTAL SIGNS AS NOTED ABOVE MUST BE MOUNTED ON A PERMANENT POST SO THAT THE LOWER EDGE OF THE BOTTOM MOST SIGN IS AT LEAST FIVE FEET ABOVE THE PAVEMENT/GROUND. THE POST MUST BE MOUNTED IN THE CENTER OF THE ADA ACCESSIBLE PARKING SPACE, NO MORE THAN FIVE FEET FROM THE FRONT OF THE PARKING SPACE. ONE SIGN REQUIRED FOR EACH ACCESSIBLE PARKING SPACE. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE AND LOCAL AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS AND STANDARDS AND LOCAL ACCESSIBILITY CODE.
 - C. ALL HANDICAP PARKING SPACES MUST ALSO HAVE A PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY CENTERED IN THE PARKING STALL.

A.D.A. RESERVED PARKING SIGN NTS



VEHICLE SPACES:
 CAR PARKING SPACES SHALL BE 8' WIDE MINIMUM. VAN PARKING SPACES SHALL BE 11' WIDE MINIMUM WHEN USING A 5' WIDE ACCESS AISLE. VAN PARKING SPACES SHALL BE PERMITTED TO BE 8' WIDE WHERE THE ACCESS AISLE IS 8' WIDE MINIMUM.

ACCESSIBILITY AISLE:
 5' WIDE MINIMUM WHEN SERVING CAR AND VAN PARKING SPACES.
 8' WIDE IF SERVING VAN PARKING SPACE(S) WHICH IS 8' WIDE.

FINISHED GRADE OF PAVEMENT IN HC PARKING SPACE(S) AND ACCESSIBILITY AISLE(S) SHALL NOT EXCEED 1:50 (2%) IN ALL DIRECTIONS

NOTES:
 THE MINIMUM COMBINED WIDTH FOR A VAN PARKING SPACE AND ACCESSIBILITY AISLE IS 16' WIDE.
 THE MINIMUM COMBINED WIDTH FOR A CAR PARKING SPACE AND ACCESSIBILITY AISLE IS 13' WIDE.

TYPICAL HANDICAP PARKING SPACE AND STRIPING PLAN (FOR REFERENCE ONLY) - NTS

SITE ACCESSIBILITY NOTES

- A. REFER TO SITE PLAN FOR EXACT LOCATION OF HANDICAP PARKING, ACCESSIBILITY AISLES, WALKWAYS AND RAMPS.
- B. ALL WALKWAYS, RAMPS, AND HANDICAP PARKING SIGNAGE, ETC. SHALL COMPLY WITH AND MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.
- C. ONE OUT OF EVERY SIX (6) ACCESSIBLE PARKING SPACES, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE.
- D. ACCESSIBLE RAMPS: REFER TO SITE PLAN FOR TYPE/STYLE OF HANDICAP RAMP(S).
- E. FINISHED GRADES OF PAVEMENT IN HC PARKING AND ACCESSIBILITY AISLE SHALL NOT EXCEED 1:50 SLOPE IN ANY DIRECTION.

HANDICAP ACCESSIBILITY ROUTE NOTES

- ALL ACCESSIBILITY ROUTES SHALL COMPLY WITH AND MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.
- A. ACCESSIBLE ROUTES MUST CONNECT HC PARKING SPACES TO ACCESSIBLE ENTRANCES.
- B. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, RAMPS AND CURB RAMPS EXCLUDING THE FLARED SIDES. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE ADA REQUIREMENTS.
- C. THE PREFERRED LOCATION FOR ACCESSIBLE ROUTES IS IN FRONT OF THE PARKED VEHICLES.
- D. HC PARKING ACCESS AISLES MUST JOIN TO AN ACCESSIBLE ROUTE.
- E. WHEN ACCESSIBLE ROUTES CROSS VEHICULAR TRAVEL LANES, MARK THE CROSSINGS TO ENHANCE PEDESTRIAN SAFETY.
- F. ENSURE THE CLEAR WIDTH OF THE ACCESSIBLE ROUTE IS NOT OBSTRUCTED. IF NEEDED, INSTALL PARKING BLOCKS ON PARKING STALLS TO PREVENT VEHICLE OVERHANGS FROM REDUCING THE CLEAR WIDTH OF THE ACCESSIBLE ROUTE.

HANDICAP RAMP GENERAL NOTES

- ALL RAMPS SHALL COMPLY WITH AND MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.
- RAMPS:**
 - A. SLOPE: RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 13:1.
 - B. CROSS SLOPE: CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 64:1.
 - C. CLEAR WIDTH: THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36" MINIMUM.
 - D. RISE: THE RISE FOR ANY RAMP RUN SHALL BE 30" MAXIMUM.
 - E. HANDRAILS: RAMP RUNS WITH A RISE GREATER THAN 6" SHALL HAVE ADA COMPLIANT HANDRAILS.
 - F. EDGE PROTECTION: ADA COMPLIANT EDGE PROTECTION SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH RAMP LANDING.
- RAMP LANDINGS:**
 - A. RAMPS SHALL HAVE LANDINGS AT THE TOP AND BOTTOM OF EACH RAMP RUN.
 - B. SLOPE: LANDINGS SHALL BE RELATIVITY LEVEL WITH SLOPES NOT STEEPER THAN 64:1 IN ANY DIRECTION.
 - C. WIDTH: THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.
 - D. LENGTH: THE LANDING CLEAR LENGTH SHALL BE 60" LONG MINIMUM.
 - E. CHANGE IN DIRECTION: RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60" X 60" MINIMUM.

HANDICAP CURB RAMP NOTES:

- ALL RAMPS SHALL COMPLY WITH AND MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.
 - A. SLOPE: RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 13:1.
 - B. COUNTER SLOPE: COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL. THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITIONS SHALL BE 20:1 OR FLATTER.
 - C. SIDES OF CURB RAMPS: WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.
 - D. LANDINGS: LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. RAMP LANDINGS SHALL BE 4' MIN. X 4' MIN. (5'X5' PREFERRED) WITH A 64:1 OR FLATTER CROSS SLOPE AND RUNNING SLOPE. WHILE RAMPS MAY BE SKEWED TO THE CROSOWALK, THE ENTIRE LOWER LANDING AREA MUST FALL WITHIN THE CROSS WALK THAT THE RAMP SERVES AND CANNOT BE LOCATED IN THE TRAVELED LANE OF OPPOSING TRAFFIC. THE BOTTOM EDGE OF THE RAMP SHALL CHANGE PLANES PERPENDICULAR TO THE LANDING. THE EDGE OF THE CURB SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER AND SURFACE SLOPES THAT MEET GRADE BREAKS SHALL ALSO BE FLUSH.
 - E. LOCATION: CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
 - F. DIAGONAL CURB RAMPS: DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.
 - G. ISLANDS: RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIMUM BY 36 INCHES WIDE MINIMUM (48" PREFERRED) AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIMUM BY 36 INCH MINIMUM (48" PREFERRED) AREA SHALL BE ORIENTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM (48" PREFERRED) AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.
 - H. DRAINAGE: CONTRACTOR IS TO ENSURE THE BASE OF EACH CONSTRUCTED CURB RAMP ALLOWS FOR PROPER DRAINAGE, WITHOUT EXCEEDING ALLOWABLE CROSS SLOPE OR RAMP VERTICAL CHANGE IN LEVEL EXCEEDING 1/8" BETWEEN THE 1) PAVEMENT AND GUTTER, AND 2) GUTTER AND RAMP, ARE NOT ALLOWED.
 - I. SURFACE TEXTURE: TEXTURE CONCRETE SURFACES BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES TO BE ROUGHER THAN THE ADJACENT WALK.
 - J. JOINTS: PROVIDE EXPANSION JOINTS IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS AND CONSISTENT WITH ITEM 608.03 REQUIREMENTS FOR A NEW CONCRETE WALK. PROVIDE A 1/2" ITEM 705.03 EXPANSION JOINT FILLER AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALKS. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGES AND SLOPE CHANGES, AND DO NOT NECESSARILY INDICATE JOINT LINES.
 - K. EXISTING SIDEWALKS: IN EXISTING SIDEWALKS, WHERE THE MAXIMUM RAMP SLOPE (13:1) IS NOT FEASIBLE DUE TO SITE CONSTRAINTS (E.G. UTILITY POLES OR VAULTS, RIGHT-OF-WAY LIMITS) IT MAY BE REDUCED AS FOLLOWS:
 10:1 FOR A MAX. RISE OF 6",
 8:1 FOR A MAX. RISE OF 3",
 6:1 OVER A MAX. RUN OF 2'-0" FOR HISTORIC AREAS WHERE A FLATTER SLOPE IS NOT FEASIBLE.
- TO PREVENT CHASING THE GRADE INDEFINITELY, THE TRANSITION FROM EXISTING SIDEWALK TO THE SHADED CURB RAMP AREA IS NOT REQUIRED TO EXCEED 15 FEET IN LENGTH.

DETECTABLE WARNINGS, IF REQUIRED:

- A. INSTALL DETECTABLE WARNING ON CURB RAMP WITH APPROVED MATERIALS. THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARED SIDES) AND SHALL EXTEND EITHER THE FULL DEPTH OF THE CURB RAMP OR 24 INCHES DEEP MINIMUM MEASURED FROM THE BACK OF THE CURB ON THE RAMP SURFACE.
- B. INSTALL ALL PROPRIETARY PRODUCTS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- C. THE DEPTH OF CONCRETE UNDERNEATH DETECTABLE WARNING PRODUCTS SHALL BE A MINIMUM OF 4" THICK.
- D. COLOR OF DETECTABLE WARNINGS SHOULD CONTRAST WITH SURROUNDING CONCRETE WALK AND RAMP (BLACK IS NOT AN ACCEPTABLE COLOR).

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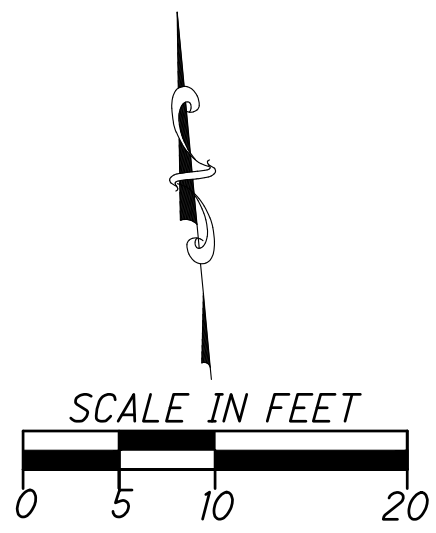
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CITY OF HUBER HEIGHTS
FIRE STATION 23 ADDITION
 7435 TROY PIKE, DAYTON, OH 45424

ISSUE		
NO.	DATE	DESCRIPTION
10/04/2024	75% DD	
11/14/2024	75% CD	
11/26/2024	95% CD	
12/05/2024	100% CD CC	
12/18/2024		FOR CONSTRUCTION

DATE	12-18-2024
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DRAWN	DSF
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 TITLE
SITE ADA DETAILS
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LEGEND

- X EXISTING ITEMS TO BE REMOVED
- TBR = TO BE REMOVED (EXISTING ITEMS)
- DND DO NOT DISTURB (EXISTING ITEMS)
- PROPOSED SAWCUT OF EXISTING PAVEMENT

EXISTING PAVEMENT, CURBING, WALK, ETC. REMOVAL LIMITS

TO BE PERFORMED AS NEEDED BASED ON ACTUAL CONSTRUCTION REQUIREMENTS

DEMO EXISTING PAVEMENT NOTE:
DEMOLITION EDGES IN EXISTING PAVEMENT SHALL BE STRAIGHT, CLEAN AND TRUE.

EXISTING ELECTRICAL NOTE:
CONTRACTOR SHALL REFER TO THE ELECTRICAL DRAWINGS FOR DEMO INFO. ON HOW ALL EXISTING ELECTRICAL ITEMS FOR THE SITE ARE TO BE HANDLED AND ADDRESSED.

DEMO NOTES:
CONTRACTOR TO REMOVE AND DISPOSE OF ALL EXISTING ITEMS WITHIN THE PROJECT LIMITS/AREA AS NEEDED TO CONSTRUCT THE PROPOSED PROJECT AND AS DIRECTED BY THE OWNER. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, EXISTING ASPHALT PAVEMENT, CONCRETE PAVEMENT, WALK, CURB, PARKING BLOCKS, STEPS, RETAINING WALLS, CATCH BASINS, MANHOLES, PIPING, VALVES, POSTS, FENCE, LIGHT POLES, ELECTRIC POLES, POLE BASES, FOUNDATIONS, TREES, STUMPS, LANDSCAPING, ETC. THIS WORK SHALL INCLUDE REMOVING ALL EXISTING FOUNDATIONS, FOOTINGS, UNDERGROUND PORTIONS OF, ETC. FOR ALL ITEMS TO BE REMOVED/DEMOLISHED.

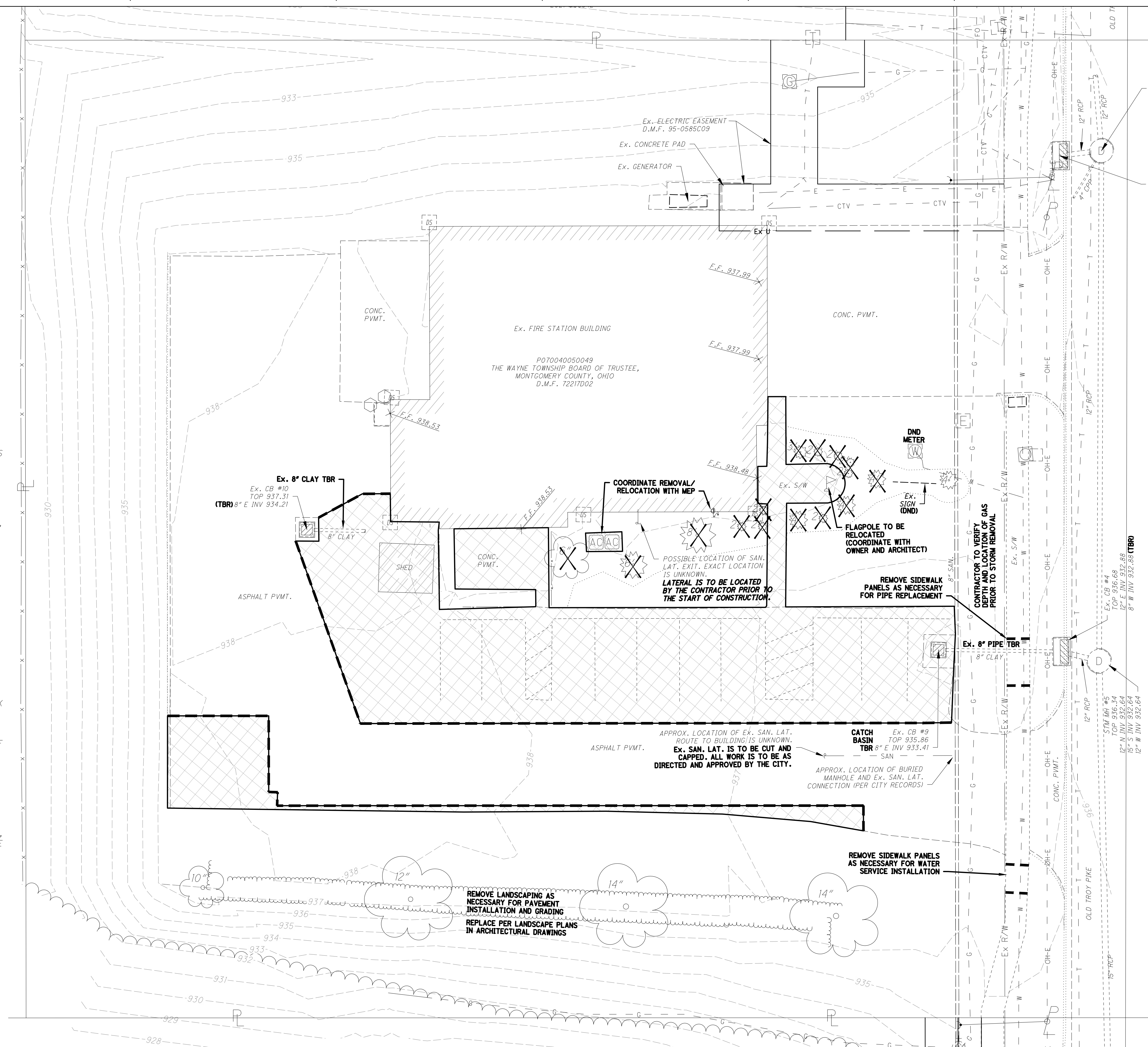
CONTRACTOR TO VERIFY EXACT ITEMS TO BE REMOVED OR ABANDONED IN PLACE AND THE APPROPRIATE TIMING TO REMOVE OR ABANDON THEM WITH THE OWNER PRIOR TO THEIR REMOVAL OR ABANDONMENT. CERTAIN SERVICES MAY NEED TO BE KEPT IN OPERATION AS LONG AS POSSIBLE OR REPLACED WITH TEMPORARY SERVICES. OWNER TO DETERMINE TIMING AND NEED FOR ANY TEMPORARY SERVICES.

THERE MAY BE OTHER UNKNOWN UNDERGROUND UTILITIES, SERVICES OR ITEMS WHICH MAY BE LOCATED WITHIN THE SITE AND MAY REQUIRE REMOVAL OR REROUTING IN ORDER TO PERFORM THE PROPOSED PROJECT. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY UNKNOWN UNDERGROUND UTILITIES OR OTHER ITEMS WHICH ARE ENCOUNTERED AND WORK WITH THE OWNER TO DECIDE HOW THESE ITEMS SHOULD BE HANDLED.

CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE REMOVAL OF UTILITIES.

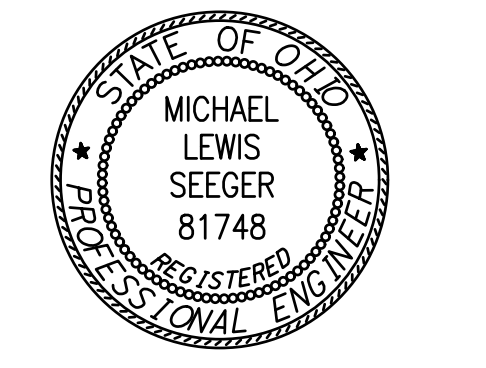
PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CHECK WITH AND VERIFY WITH OWNER ALL ITEMS WHICH THE OWNER WANTS TO SALVAGE. ALL ITEMS DESIGNATED FOR SALVAGE BY THE OWNER, WHICH MAY INCLUDE BUT IS NOT LIMITED TO SUCH ITEMS AS LIGHT POLES, LUMINAIRES, SIGNS (INCLUDING POST), ETC., AND ANY OTHER ITEMS DESIGNATED FOR SALVAGE BY THE OWNER WHICH ARE TO BE REMOVED SHALL BE CAREFULLY SALVAGED AND SHALL REMAIN THE PROPERTY OF THE OWNER. ALL ITEMS WHICH ARE REMOVED AND THE OWNER DOES NOT WANT TO SALVAGE SHALL BE REMOVED FROM THE SITE AND SHALL BECOME THE CONTRACTOR'S PROPERTY FOR PROPER DISPOSAL OFF-SITE, UNLESS OTHERWISE NOTED.

DEMOLITION OF ALL ITEMS TO BE PER ALL FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND STANDARDS. ALL DEMOLITION PERMITS TO BE OBTAINED PRIOR TO DEMOLITION.



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CITY OF HUBER HEIGHTS

FIRE STATION 23 ADDITION

7435 TROY PIKE, DAYTON, OH 45424

ISSUE

NO.	DATE	DESCRIPTION
10/04/2024	75% DD	
11/14/2024	75% CD	
11/26/2024	95% CD	
12/05/2024	100% CD GC	
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CHECKED	MLS
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SHEET NO.	C1.1

NOTES:
 CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

ALL UTILITIES TO BE INSTALLED PER CITY OF HUBER HEIGHTS STANDARDS.

CONTRACTOR TO VERIFY AND LOCATE WHERE STORM, SANITARY, AND WATER LATERALS AND ALL OTHER PROPOSED UTILITY SERVICES TIE INTO THE PROPOSED BUILDING PER BUILDING PLANS. CONTRACTOR SHALL ALSO VERIFY THE SIZES AND TYPES OF ALL LATERALS AND HOW THEY MAY TIE INTO THE PROPOSED BUILDINGS.

CONTRACTOR TO FOLLOW ALL PERMIT REQUIREMENTS AND SPECIFICATIONS TO INSTALL THE PROPOSED UTILITIES INCLUDING COORDINATING THE INSTALLATION WITH LOCAL OFFICIALS AS NEEDED AND/OR REQUIRED.

CONTRACTOR TO COORDINATE ALL WORK WITH THE OWNER AS NEEDED/REQUIRED.

DOWNSPOUT PIPING NOTE:

THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

EXISTING UTILITY NOTES:

CONTRACTOR SHALL DETERMINE THE TYPE OF SERVICE FOR ALL EXISTING UNDERGROUND LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION AND SHALL ENSURE THE FOLLOWING:

1. THAT ALL EXISTING STORM LINES OR ANY OTHER EXISTING CLEAN WATER DRAINAGE LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE OR NEED TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO THE PROPOSED OR EXISTING STORM SEWER.

2. THAT ALL EXISTING SANITARY LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING SANITARY SEWER LINES/STRUCTURES OR INTO PROPOSED SANITARY SEWER LINES/STRUCTURES.

3. THAT ALL EXISTING WATER LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING WATER LINES OR INTO PROPOSED WATER LINES.

ALL WORK TO BE PER AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND TO BE WITNESSED BY THE OWNER'S REP. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

LOCATE EXISTING UTILITIES NOTE:

THIS ITEM OF WORK MAY BE PERFORMED ON AS NEEDED BASIS AND SHALL CONSIST OF THE CONTRACTOR FIELD LOCATING THE VARIOUS EXISTING UTILITY LINES LOCATION, SIZE, AND DEPTH PRIOR TO PERFORMING ANY PROPOSED WORK OR ONCE WORK HAS BEGUN. THIS WORK MAY ALSO REQUIRE THE CONTRACTOR TO INSPECT THE LINES BY OTHER METHODS SUCH AS DYE TESTING OR CAMERA/VIDEO TO FIND THE ORIGIN AND LOCATION OF THE LINE. THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE OWNER AS NEEDED TO ENSURE EXISTING FACILITY OPERATIONS ARE MAINTAINED.

ALL WORK TO BE PER AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND TO BE WITNESSED BY THE OWNER'S REPRESENTATIVE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

UNKNOWN EXISTING UNDERGROUND UTILITIES:

CONTRACTOR TO BE AWARE THERE MAY BE OTHER UNKNOWN SERVICES OR UNKNOWN UNDERGROUND UTILITIES OR ITEMS WHICH MAY BE LOCATED WITHIN THE SITE AND MAY REQUIRE REMOVAL OR REROUTING IN ORDER TO PERFORM THE PROPOSED PROJECT. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY UNKNOWN UNDERGROUND UTILITIES OR OTHER ITEMS WHICH ARE ENCOUNTERED AND WORK WITH THE OWNER TO DECIDE HOW THESE ITEMS SHOULD BE HANDLED.

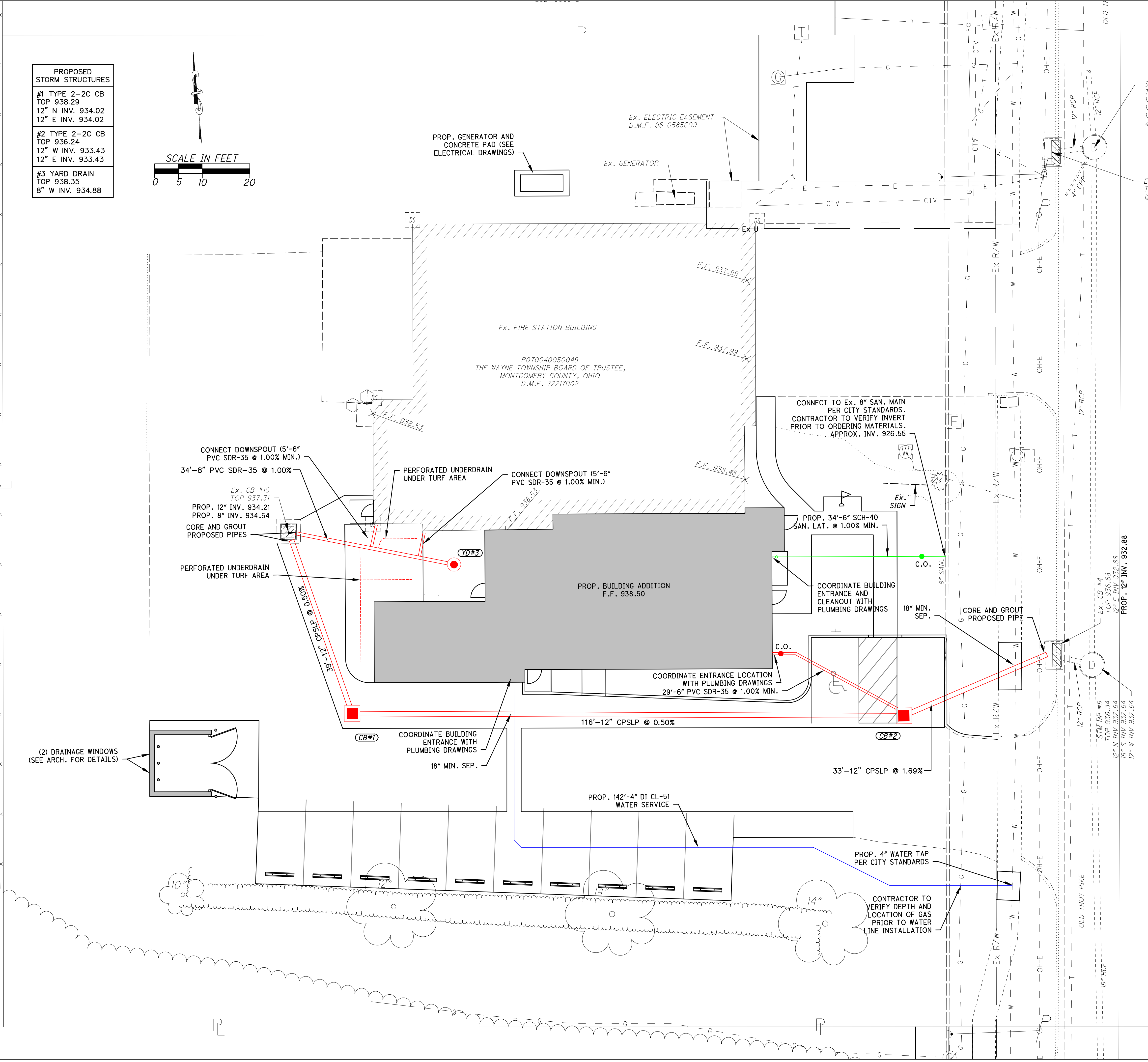
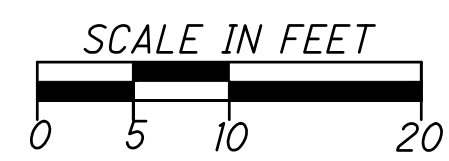
ELECTRICAL/MECHANICAL NOTE:

CONTRACTOR SHALL REFER TO THE ELECTRICAL/MECHANICAL DRAWINGS FOR DEMOLITION AND/OR INSTALLATION INFO. OF ALL EXISTING AND PROPOSED ELECTRICAL/MECHANICAL ITEMS FOR THE SITE AND/OR HOW THESE ITEMS ARE TO BE HANDLED AND ADDRESSED.

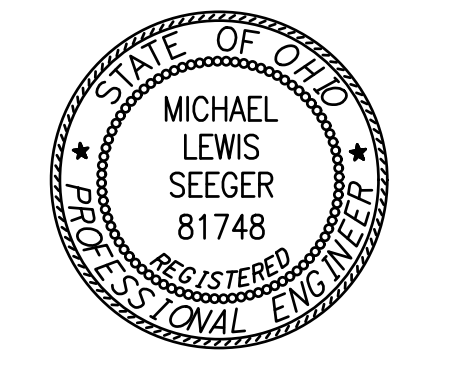
GAS, ELECTRIC, COMMUNICATION CONFLICT NOTE:

CONTRACTOR TO LOWER/DIP THESE UTILITIES AS NEEDED TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING SANITARY OR STORM OR WATER LINES THEY MAY CONFLICT WITH. IF THESE UTILITY LINES CONFLICT WITH ANY PROPOSED OR EXISTING WATERLINES THEN CONTRACTOR TO DETERMINE WHETHER TO LOWER/DIP THE WATERLINE OR LOWER/DIP THE GAS/ELECTRIC/COMMUNICATION LINES. CONTRACTOR MAY NEED TO CONSULT WITH AND OBTAIN OWNER'S APPROVAL AS TO WHICH UTILITY WILL BE LOWERED PRIOR TO PERFORMING THIS WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

PROPOSED STORM STRUCTURES	
#1 TYPE 2-2C CB	TOP 938.29
12" N INV.	934.02
12" E INV.	934.02
#2 TYPE 2-2C CB	TOP 936.24
12" W INV.	933.43
12" E INV.	933.43
#3 YARD DRAIN	TOP 938.35
8" W INV.	934.88



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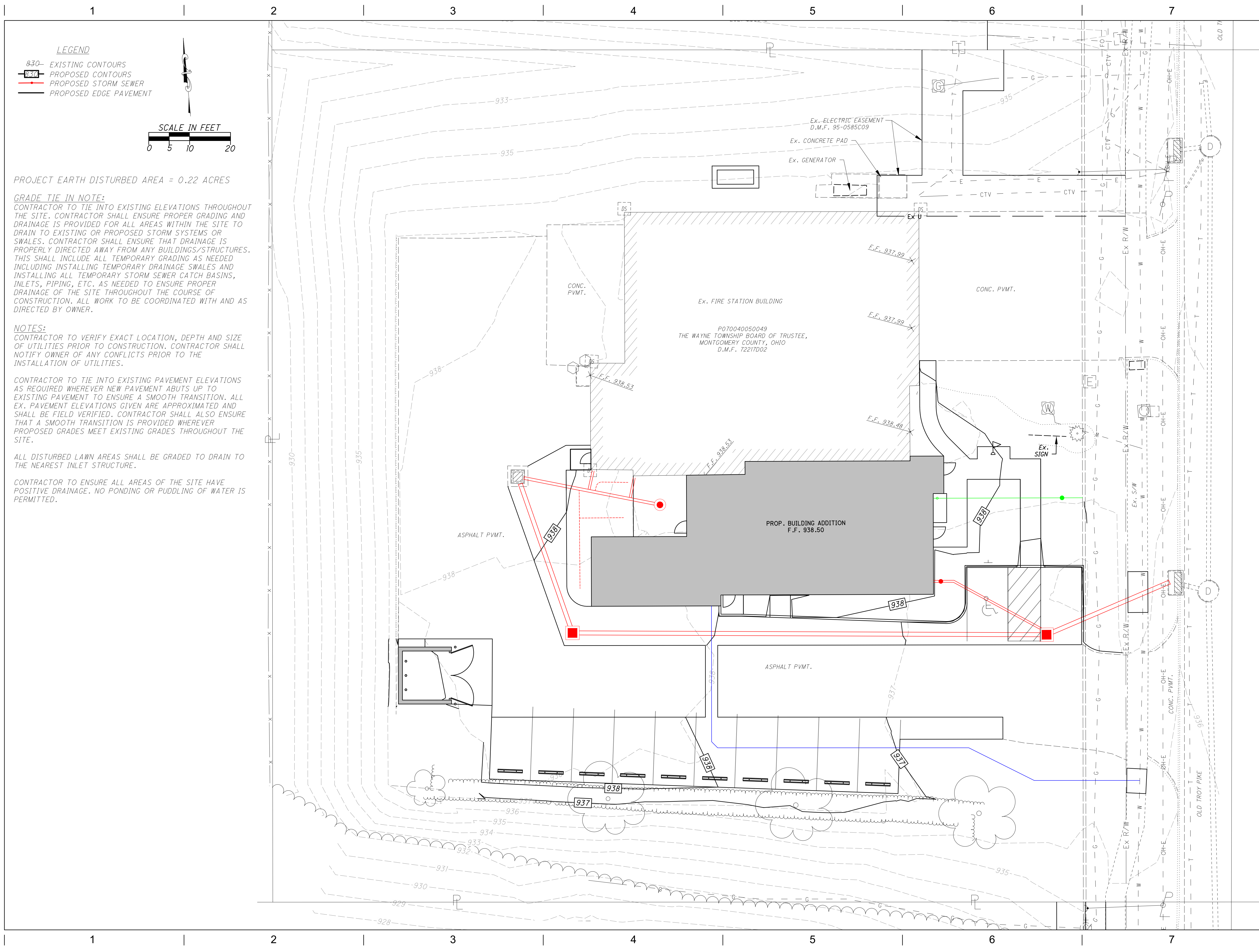


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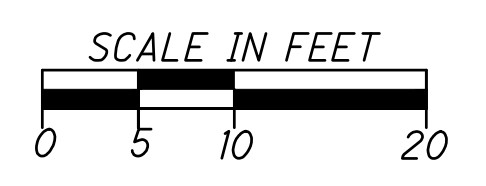
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TITLE UTILITY PLAN	
SHEET NO. C2.1	



LEGEND
 830- EXISTING CONTOURS
 937- PROPOSED CONTOURS
 - - - PROPOSED STORM SEWER
 — PROPOSED EDGE PAVEMENT



PROJECT EARTH DISTURBED AREA = 0.22 ACRES

GRADE TIE IN NOTE:
 CONTRACTOR TO TIE INTO EXISTING ELEVATIONS THROUGHOUT THE SITE. CONTRACTOR SHALL ENSURE PROPER GRADING AND DRAINAGE IS PROVIDED FOR ALL AREAS WITHIN THE SITE TO DRAIN TO EXISTING OR PROPOSED STORM SYSTEMS OR SWALES. CONTRACTOR SHALL ENSURE THAT DRAINAGE IS PROPERLY DIRECTED AWAY FROM ANY BUILDINGS/STRUCTURES. THIS SHALL INCLUDE ALL TEMPORARY GRADING AS NEEDED INCLUDING INSTALLING TEMPORARY DRAINAGE SWALES AND INSTALLING ALL TEMPORARY STORM SEWER CATCH BASINS, INLETS, PIPING, ETC. AS NEEDED TO ENSURE PROPER DRAINAGE OF THE SITE THROUGHOUT THE COURSE OF CONSTRUCTION. ALL WORK TO BE COORDINATED WITH AND AS DIRECTED BY OWNER.

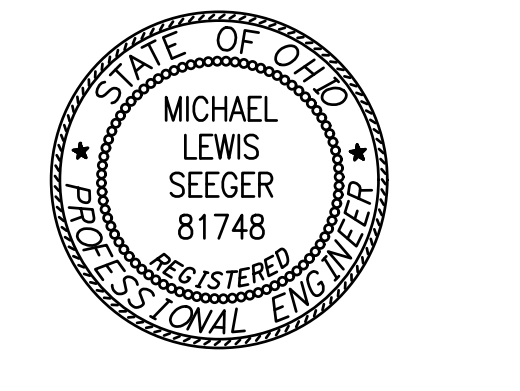
NOTES:
 CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

CONTRACTOR TO ENSURE ALL AREAS OF THE SITE HAVE POSITIVE DRAINAGE. NO PONDING OR PUDDLING OF WATER IS PERMITTED.

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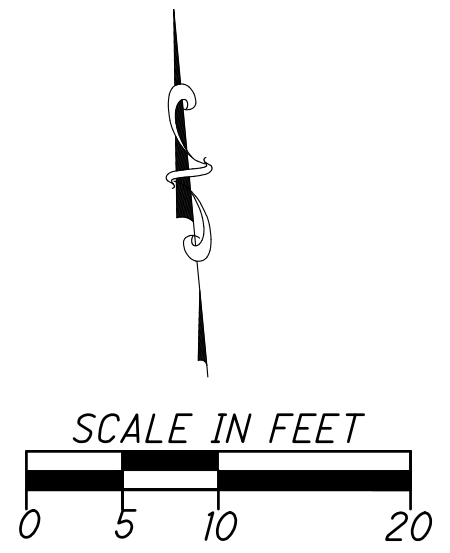
Choice One Engineering
 SIDNEY, OHIO 937.497.0200
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CITY OF HUBER HEIGHTS
FIRE STATION 23 ADDITION
 7435 TROY PIKE, DAYTON, OH 45424

ISSUE		
NO.	DATE	DESCRIPTION
10/04/2024		75% DD
11/14/2024		75% CD
11/26/2024		95% CD
12/05/2024		100% CD QC
12/18/2024		FOR CONSTRUCTION

DATE	12-18-2024
JOB NO.	4262.00
DRAWN	DSF
CHECKED	MLS
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TITLE GRADING PLAN	

SHEET NO.
C3.1

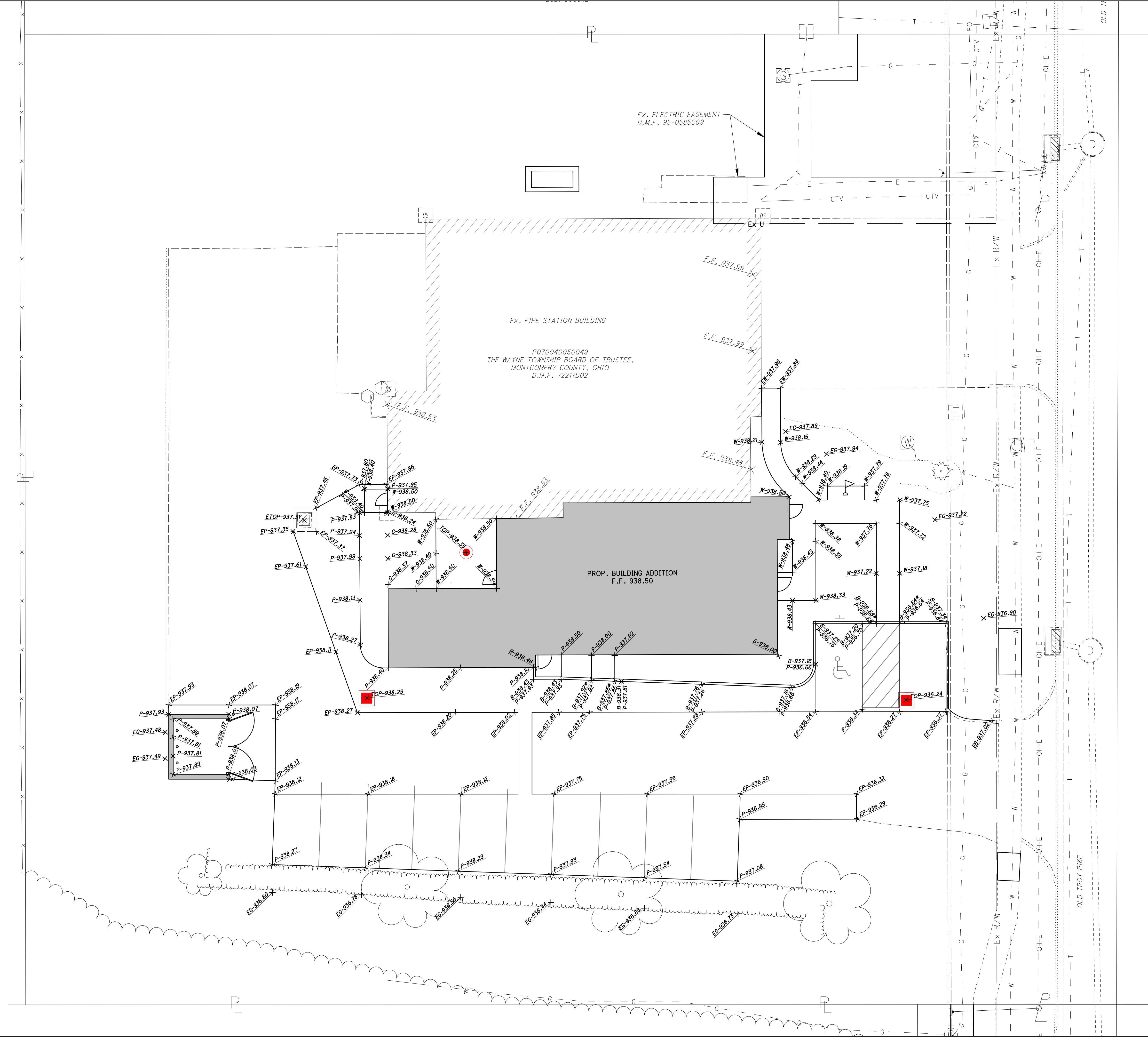


LEGEND

EP = EXISTING PAVEMENT ELEVATION
 EG = EXISTING GROUND ELEVATION
 EB = EXISTING TOP OF CURB ELEVATION
 P = PROPOSED PAVEMENT ELEVATION
 B = PROPOSED TOP OF CURB ELEVATION
 W = PROPOSED SIDEWALK ELEVATION
 G = PROPOSED GROUND ELEVATION
 TOP = PROPOSED TOP OF GRATE ELEVATION
 ETOP = EXISTING TOP OF GRATE ELEVATION
 B-XXX.XX* = ASTERISK INDICATES PROPOSED TOP OF CURB SPOT GRADE ELEVATION WITH CURB EXPOSURE THAT VARIES FROM THE STANDARD 0.50' (6") CURB

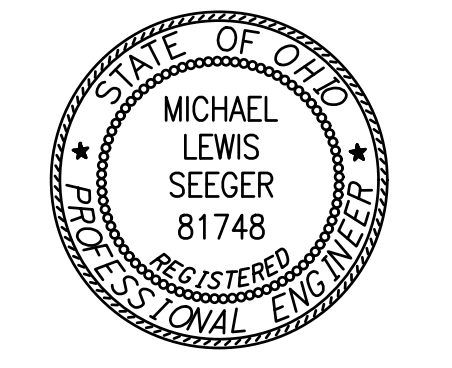
NOTE THAT IN ORDER TO FACILITATE PROPER ADA ACCESS THERE MAY BE AREAS WHERE IT IS INTENDED FOR THERE TO BE NO CURB EXPOSURE (PAVEMENT AND TOP OF CURB TO BE FLUSH). SEE SPOT ELEVATIONS ON THIS SHEET TO DETERMINE WHERE THESE AREAS ARE.

NOTE:
 CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.



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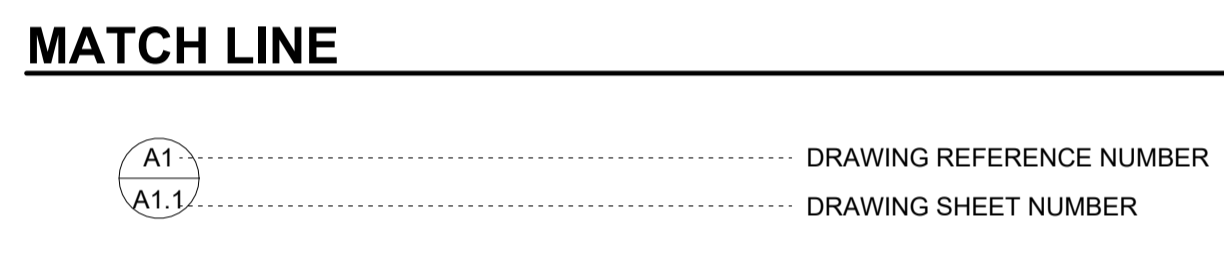
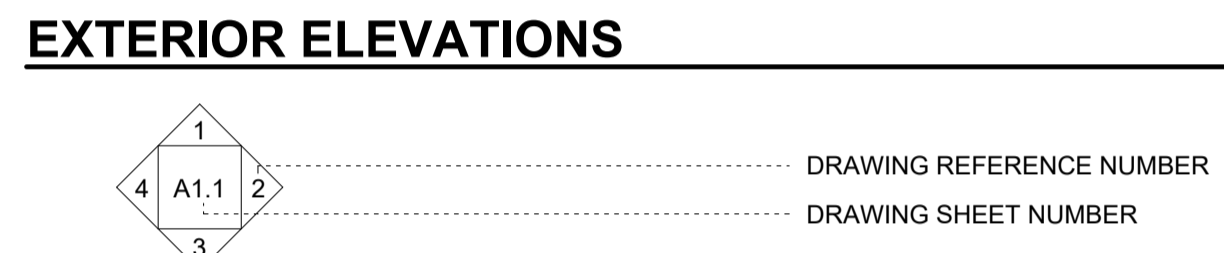
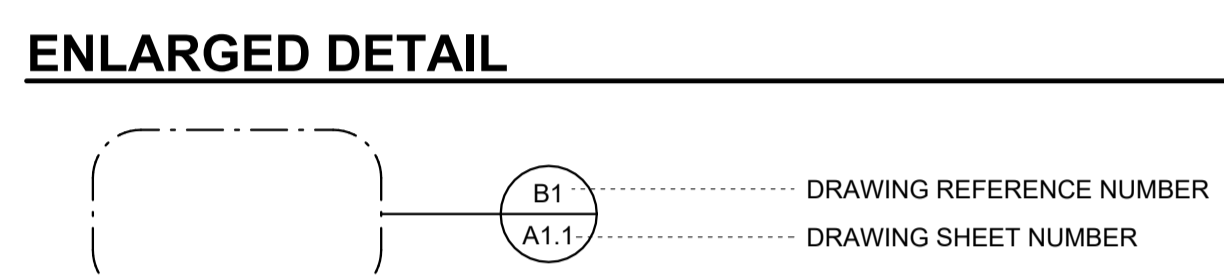
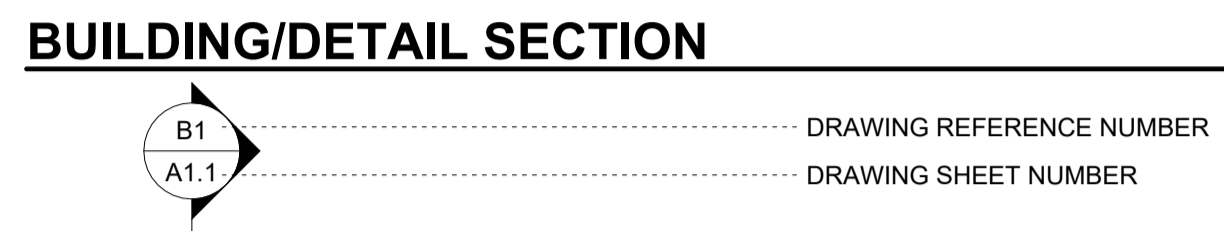
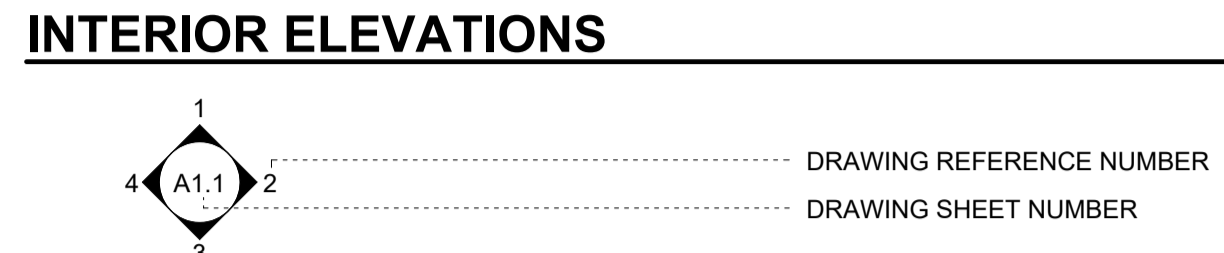
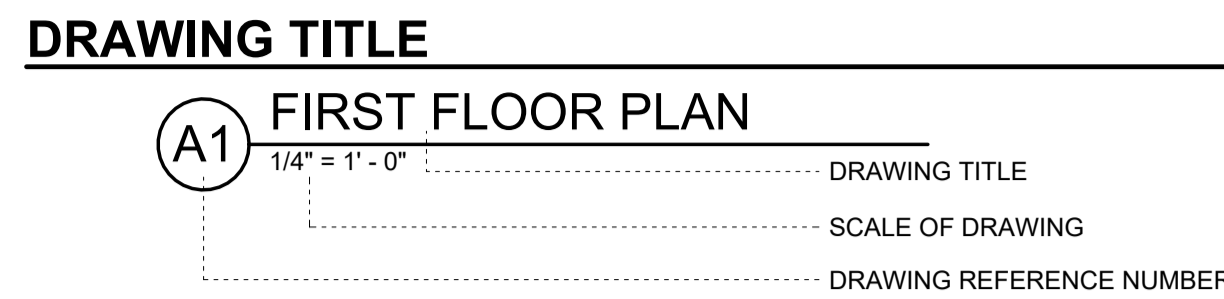
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 TITLE
PAVEMENT ELEVATIONS PLAN

SHEET NO.
C3.2

ABBREVIATIONS

SYMBOL		G
@ & L Ø ϕ ℄	AT AND ANGLE DIAMETER CENTER LINE PLATE	GA GALV GC GENERAL CONTRACTOR GD GRADE OR GRADING GEN GENERAL GL GLASS OR GLAZING GND GROUND GYP GYPSUM BOARD GWB GLAZED WALL TILE
ABV AC AFI AHU AL AL ALT ANDD ANCH APPROX ARCH ATTEN AUTO AVG	ABOVE AIR CONDITIONING ABOVE FINISHED FLOOR AIR HANDLER UNIT ALUMINUM ALTERNATE ANNODED ANCHOR APPROXIMATELY ARCHITECT OR ARCHITECTURAL ATTENUATED AUTOMATIC AVERAGE	HB HOSE BIBB HDW HARDWARE HM HOLLOW METAL HORIZ HORIZONTAL HT HEIGHT HVAC HEATING, VENTILATION & AIR CONDITIONING HWD HARDWARE
BLDG BLK BLKG BOT BRG BSMT	BUILDING BLOCK BLOCKING BOTTOM BEARING BASEMENT	ID INSIDE DIAMETER IN INCH INCL INCLUDE (D) (ING) INT INTERIOR INV INVERT
CAB CB C/C CF CFCI CFOI CG CGI CJ CLG CLS CLR CMU CO COLM CONC CONST CONT CPU CY	CABINET CATCH BASIN CENTER TO CENTER CUBIC FOOT CONTRACTOR FURNISH, CONTRACTOR INSTALL CONTRACTOR FURNISH, OWNER INSTALL CORNER GUARD CONTROL JOINT CEILING CLOSET CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONSTRUCTION CONTINUOUS OR CONTINUE CENTRAL PROCESSING UNIT (COMPUTER) CUBIC YARD	JB JUNCTION BOX JC JANITOR CLOSET
DBL DEMO DF DIA DIM DISP DIV DS DWG DTL	DOUBLE DEMOLISH DEMOLITION DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DIVISION DOWNSPOUT DRAWING DETAIL	L LAV LAS LAVATORY LH LEFT HAND LL LIVE LOAD LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LTL LINTEL LVR LOUVER
EA EC EFS EJ ELEC ELEV EMERG EQ EQUIP EWC EXIST OR EX EXP EXT	EACH ELECTRICAL CONTRACTOR EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT ELECTRIC OR ELECTRICAL ELEVATION OR ELEVATOR EMERGENCY EQUAL EQUIPMENT ELECTRIC WATER COOLER EXISTING EXPANSION EXTERIOR	M MEN OR METER MAS MASONRY MAT MATERIAL MAX MAXIMUM MC MECHANICAL CONTRACTOR MECH MECHANICAL MFR MANUFACTURER MH MOUNTING HEIGHT, MANHOLE ML MILLIMETER MM MILLIMETER MIN MINIMUM MISC MISCELLANEOUS MO MOUNTING OPENING MTD MOUNTED MTL METAL
FD FE FEC FF FIN FLR FND FRT FT FTG FUR FV FOW	FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FINISH OR FINISHED FLOOR FOUNDATION FIRE RETARDANT TREATED WOOD FOOT OR FEET OR FULLY TEMPERED FOOTING FURNISHING FIELD VERIFY FACE OF WALL	N NORTH OR NITROGEN NC NURSE CALL NIC NOT IN CONTRACT NO NUMBER OR NITROUS OXIDE NOM NOMINAL NRC NOISE REDUCTION COEFFICIENT NTS NOT TO SCALE
		O
		OD OFCI OFVI OH OHD OPNG OPP O ₂
		P
		PAR PLUMBING CONTRACTOR PC PLATE PER CUBIC FOOT PL PLATE OR PROPERTY LINE PLBG PLUMBING PLWD PLYWOOD PME PLUMBING, MECHANICAL & ELECTRICAL PML PANEL PR PAIR PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PVC POLYVINYL CHLORIDE
		Q QUANTITY
		R RADIUS RA RETURN AIR RB RUBBER BASE RD ROOF DRAIN RECEPT RECEPTACLE REF REFERENCE REINF REINFORCE REQD REQUIRED RET RETURN REV REVISION RH RIGHT HAND RM ROOM RO ROUGH OPENING ROW RIGHT OF WAY
		S SOUTH SAN SANITARY SB SINK BASE SCHED SCHEDULE SEAL SEALANT SECT SECTION SF SQUARE FEET SG SAFETY GLASS SH SPRINKLER HEAD OR SHOWER HEAD SHT SHEET SHTG SHEATHING SIM SIMILAR SPEC SPECIFICATION(S) SPK SPEAKER SQ SQUARE ST STREET STC SOUND TRANSMISSION CLASSIFICATION STANDARD STL STEEL STR STRUCTURAL SUSP SUSPENDED SV SHEET VINYL SYS SYSTEM
		T & G TONGUE & GROOVE TB TOWEL BAR TAB TOP AND BOTTOM TEL TELEPHONE TOC TOP OF CONCRETE TOS TOP OF STEEL TOM TOP OF MASONRY TOW TOP OF WALL TRANS TRANSFORMER TV TELEVISION TYP TYPICAL
		UC UNDER CABINET OR COUNTER UH UNIT HEATER UL UNDERWRITERS LABORATORY UNO UNLESS NOTED OTHERWISE
		V VACUUM VB VAPOR BARRIER VCT VINYL COMPOSITION TILE VERT VERTICAL VSL VACUUM SLIDE
		W WIDE OR WEST OR WOMEN W/O WITHOUT WC WATER CLOSET OR WALL CABINET WD WOOD WIN WINDOW WP WORK POINT WPT WOOD PRESERVATIVE TREATMENT WT WEIGHT WWF WELDED WIRE FABRIC

REFERENCE SYMBOLS

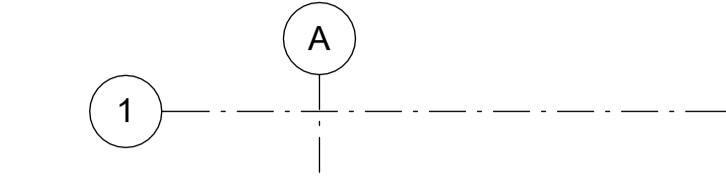


MATERIAL SYMBOLS IN SECTION

	EARTH		LOOSE OR BATT INSULATION		BRICK
	GRANULAR FILL		RIGID INSULATION		SOLID SURFACE
	CONCRETE		STEEL		GYPSUM / PLASTER
	CMU BLOCK		PLYWOOD		WOOD, FINISHED
	BLOCKING / SHIM		WOOD, DIMENSIONAL		

DRAWING SYMBOLS

COLUMN CENTER LINES



ROOM SYMBOL



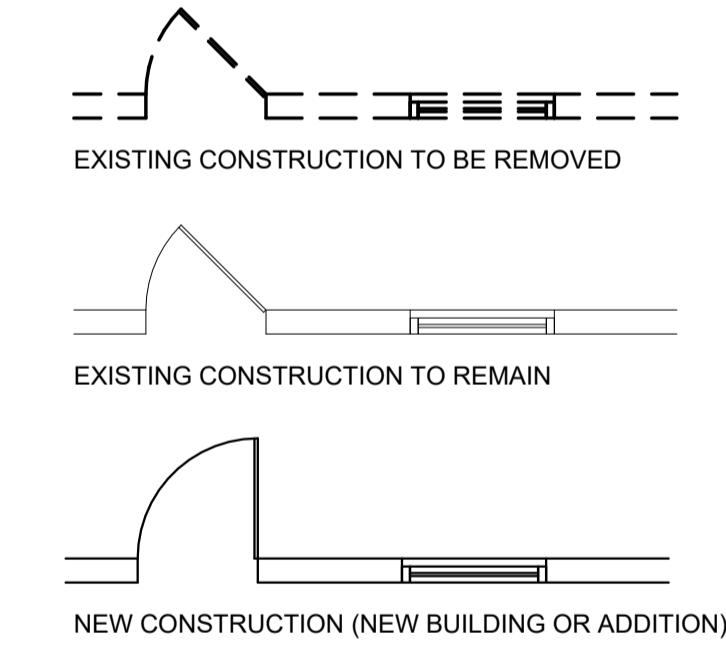
PLAN SYMBOLS

	CONSTRUCTION NOTES
	DEMOLITION NOTES
	ACCESSORIES (LETTERS)
	DOOR NUMBER SYMBOL
	WINDOW SYMBOL
	WALL TYPE
	REVISION / CHANGE
	CORNER GUARD
	END WALL PROTECTOR
	FIRE EXTINGUISHER CABINET

ELEVATION SYMBOLS

	CHANGE IN ELEVATION
	ELEVATION

TYPICAL WALL CONVENTIONS



REFLECTED CEILING SYMBOLS

	SURFACE MOUNTED LIGHT FIXTURES
	RECESSED LIGHT FIXTURES
	CALL LIGHT
	EXIT LIGHT
	SUPPLY DIFFUSER
	RETURN
	SMOKE DETECTOR
	SPEAKER
	SPRINKLER HEAD
	CURTAIN OR IV TRACK
	CEILING HEIGHT

INTERIOR ELEVATION SYMBOLS

	DUPLEX RECEPTACLE
	TELE/DATA OUTLET
	LIGHT SWITCH
	DUPLEX RECEPTACLE (EMERGENCY POWER)
	NURSE CALL BUTTON
	CODE BLUE BUTTON
	MEDICAL GAS OUTLET
	TEMPERED GLASS
	SPANDREL GLASS

FIRE BARRIER LEGEND

	SMOKE RESISTIVE
	1 HR. FIRE BARRIER
	1S HR. FIRE/SMOKE BARRIER
	2 HR. FIRE BARRIER
	2S HR. FIRE/SMOKE BARRIER
	3 HR. FIRE BARRIER

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT. ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON SUBSEQUENT SHEETS.

Renovation and Addition
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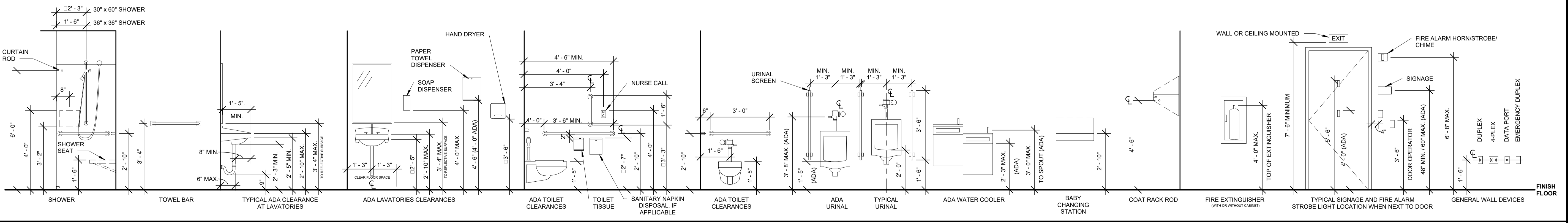
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STATE OF OHIO
TIMOTHY J. BENEAT
12305
REGISTERED PROFESSIONAL ARCHITECT
Expiration Date 12/31/2025

ISSUE

NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE 12/18/2024
JOB NO. 4262.00
DRAWN MSM
CHECKED TJB
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TITLE ABBREVIATIONS AND SYMBOLS
SHEET NO. **A0.1**



MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)

ROOM FINISH SCHEDULE

Table with columns: ROOM No., ROOM NAME, FLOOR, BASE, WAINSCOT (MAT., HT.), WALLS (N, S, E, W), CEILING (MAT.), REMARKS. Lists various rooms like VEST, OFFICER OFFICE, OFFICER DORM, etc., with their respective finish materials and quantities.

ROOM FINISH SCHEDULE REMARKS

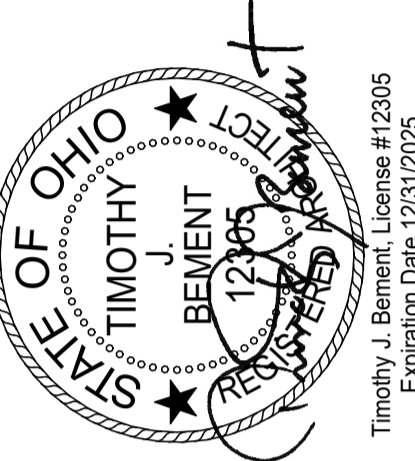
Table with columns: No., REMARK. Contains 9 numbered remarks providing details on material callouts, wall protection, carpeting, and doorways.

MATERIAL LEGEND

Table with columns: SORT MATERIAL, ITEM, MATERIAL, MANUFACTURER, MATERIAL MODEL NO., CONTACT INFO, COLOR, FLAME / SMOKE, REMARKS. Lists materials for BASE, CABINETS, CEILING, FLOOR, SPECIALTY, and WALL, including items like porcelain tile wall base, plastic laminate, acoustic panel ceiling, carpet tile, and various paints.



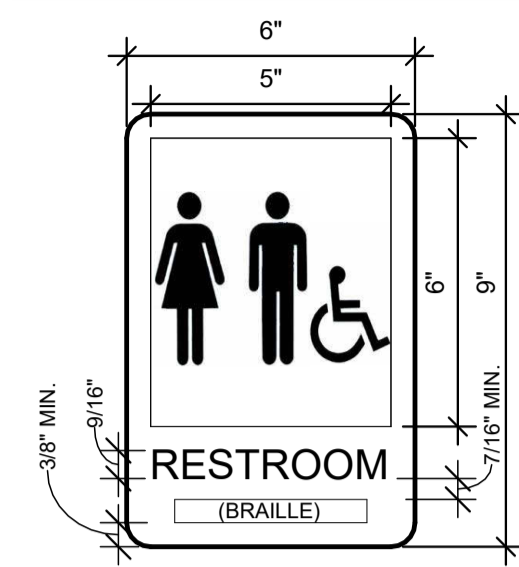
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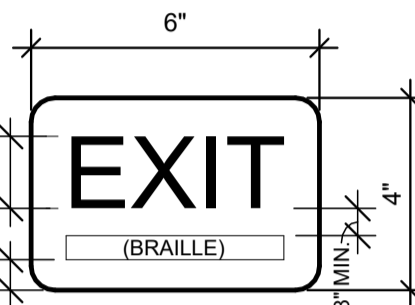
Table with columns: NO., DATE, DESCRIPTION. Includes an issue log entry for 12/18/2024 FOR CONSTRUCTION. Below is a project information table with fields for DATE, JOB NO., DRAWN, CHECKED, TITLE, and SHEET NO.

SIGNAGE LEGEND



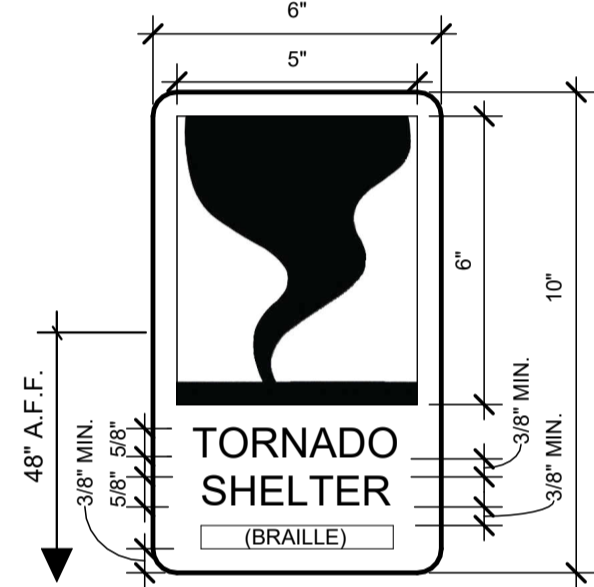
UNISEX RESTROOM - TYPE 1

3" = 1'-0"



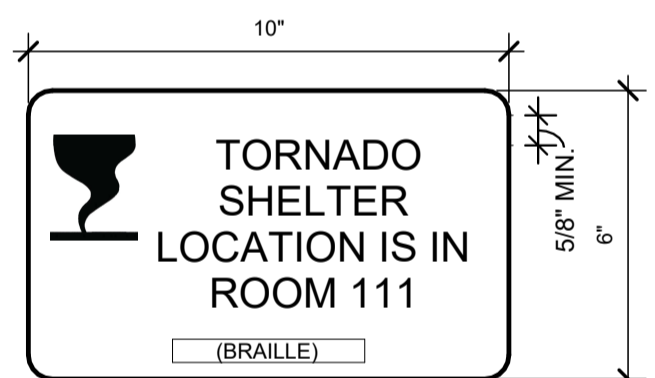
EXIT SIGN - TYPE 2

3" = 1'-0"



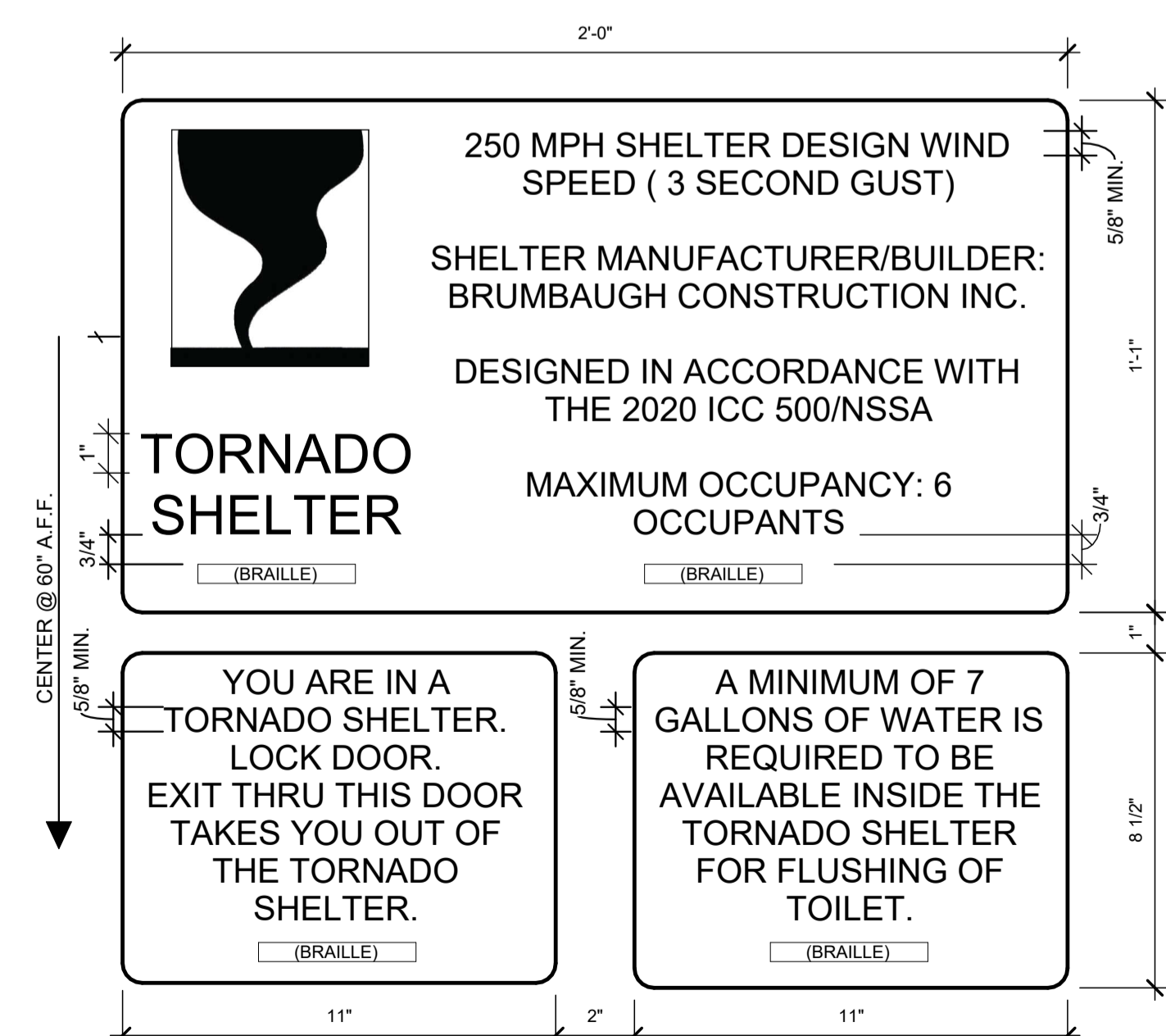
TORNADO SHELTER - TYPE 3

3" = 1'-0"



TORNADO SHELTER - TYPE 4

3" = 1'-0"

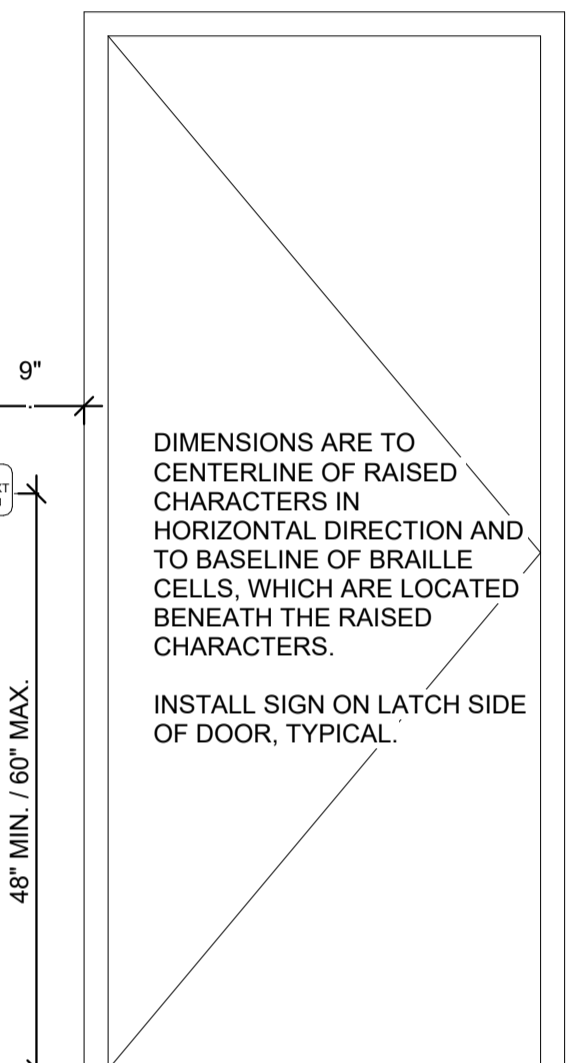


TORNADO SHELTER - TYPE 5

3" = 1'-0"

SIGN NOTES

- A. ALL SIGNS ARE CFCL.
- B. ALL SIGNS SHALL HAVE BRAILLE LETTERING BENEATH TEXT, TYPICAL.
- C. SIGNS MOUNTED ON GLASS AT DOOR NEED TO BE MOUNTED WITH ADHESIVE AND MATCHING BACKER PLATE FOR OTHER SIDE OF GLASS.
- D. TEXT AND GRAPHICS TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH BACKGROUND. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- E. BACKGROUND TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH TEXT AND GRAPHICS. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- F. 1/2" RADIUS CORNERS.
- G. ALL TEXT ON SIGNS LOCATED NEXT TO INTERIOR DOORS WILL BE 1/32" RAISED CHARACTERS, UPPERCASE, AND VIEWABLE AT LESS THAN 6 FEET.



SIGNAGE LOCATION

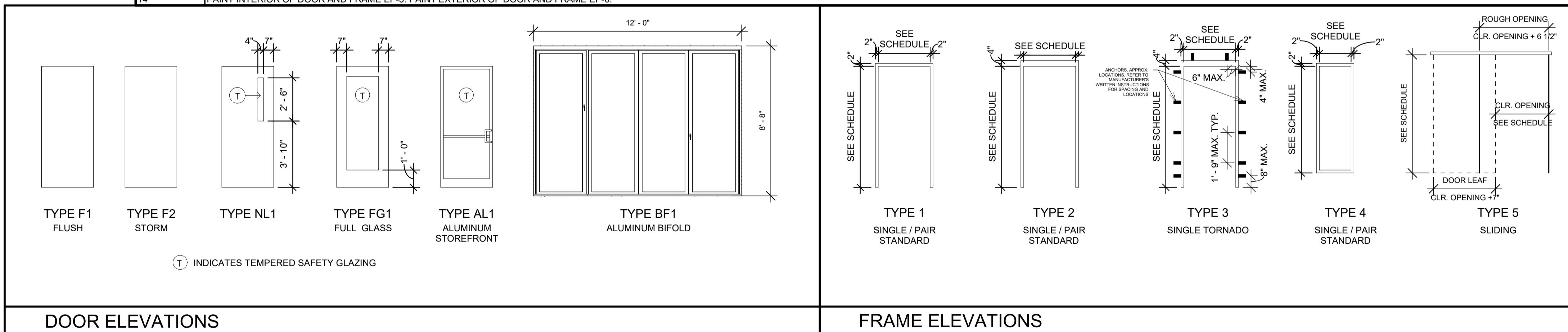
3/4" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR No.	ROOM NAME	HDW. SET	DOOR			FRAME			DETAILS			FIRE RTG.	REMARKS					
			W	H	T	MAT.	TYPE	FIN.	U/C	MAT.	TYPE			FIN.	HEAD	JAMB	SILL	
100A	VEST.	1	3'-0"	7'-0"	1 3/4"	ALUM	AL1	POWDER COATED	-	ALUM.	-	POWDER COATED	D1/A0.6	B3/A0.8	B1/A0.6	-	8,9	
100B	VEST.	1	3'-4"	7'-0"	1 3/4"	ALUM	AL1	POWDER COATED	-	ALUM.	-	POWDER COATED	B2/A0.6	C2/A0.6	B1/A0.6	-		
101A	OFFICER OFFICE	5	3'-0"	7'-0"	1 3/4"	WD	NL1	STAIN	-	HM	1	EP-3	E6/A0.6	F6/A0.6	-	-	90 MIN	
101B	OFFICER OFFICE	3	3'-0"	7'-0"	1 3/4"	HM	NL1	EP-3	-	HM	2	EP-3	B8/A0.6	C6/A0.6	-	-	20 MIN	
102	OFFICER DORM	17	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	5	EP-3	B1/A0.8	E1/A0.8	-	-	20 MIN	
103	OFFICER TLT	18	3'-0"	6'-8"	2"	WD	F1	STAIN	-	HM	5	EP-3	B1/A0.8	E1/A0.8	-	-		1
104	DECON.	14	3'-0"	7'-0"	1 3/4"	HM	NL1	EP-3	-	HM	2	EP-3	E6/A0.6	F6/A0.6	-	-		
107	STAIRS	9	3'-0"	7'-0"	1 3/4"	HM	EXISTING	EP-3	-	EXISTING	-	EP-3	-	-	-	-		4.12
109	STAIRS	19	2'-8"	3'-10"	1 3/4"	HM	F1	EP-3/EP-6	-	HM	4	EP-3/EP-6	E6/A0.6	G/A0.6F	-	-		7.14
109A	STAIRS	2	3'-0"	7'-0"	1 3/4"	HM	EXISTING	EP-3/EP-6	-	EXISTING	-	EP-3/EP-6	-	-	-	-		2.9, 12.14
109B	STAIRS	9	3'-0"	7'-0"	1 3/4"	HM	EXISTING	EP-3	-	EXISTING	-	EP-3	-	-	-	-		4.12
111	TLT	15	3'-0"	7'-0"	1 3/4"	HM	F2	EP-3	3/8" MAX	HM	3	EP-3	C4/A0.6	D4/A0.6	F4/A0.6	-	90 MIN	1.3, 5.6
112	FITNESS	7	3'-0"	7'-0"	1 3/4"	ALUM	AL1	POWDER COATED	-	ALUM.	1	POWDER COATED	B2/A0.6	C2/A0.6	C1/A0.6 & B1/A0.6	-		8
112A	FIRE RISER	12	2'-6"	7'-0"	1 3/4"	HM	F1	EP-3	-	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-		
112B	FITNESS	-	12'-0"	8'-9 3/8"	1 3/4"	AL	NL2	POWDER COATED	-	ALUM	-	POWDER COATED	B5/A0.7	-	D5/A0.7	-		11
113	JAN.	6	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-		
114	CREW LAUNDRY	8	3'-0"	7'-0"	1 3/4"	WD	NL1	STAIN	-	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-	90 MIN	
115	TLT/SHWR	10	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-		1
116	TLT/SHWR	10	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-		1
117	ADA DORM	11	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-	20 MIN.	
117.1	ADA DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
117.2	ADA DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
117.3	ADA DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
118	DORM	11	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-	20 MIN.	
118.1	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
118.2	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
118.3	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
119	DORM	11	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-	20 MIN.	
119.1	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
119.2	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
119.3	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
120	DORM	11	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-	20 MIN.	
120.1	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
120.2	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
120.3	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
121	DORM	11	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-	20 MIN.	
121.1	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
121.2	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
121.3	DORM	20	1'-10"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	4	EP-3	F3 & F5/A8.3	C6/A0.6 SIM	F3 & F5/A8.3	-	20 MIN.	
200	TRAINING	16	3'-8"	3'-8"	1 3/4"	HM	F4	EP-3	-	HM	4	EP-3	-	-	-	-		
209A	MECHANICAL	EXISTING	3'-0"	7'-0"	1 3/4"	HM	EXISTING	EP-3	-	EXISTING	-	EP-3	-	-	-	-		10
209B	MECHANICAL	EXISTING	3'-0"	7'-0"	1 3/4"	HM	EXISTING	EP-3	-	EXISTING	-	EP-3	-	-	-	-		10
210	DATA/IT	13	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	RELOCATED	1	EP-3	B6/A0.6	C6/A0.6	-	-		13
216	SEWING ROOM	5	3'-0"	7'-0"	1 3/4"	HM	F1	EP-3	-	RELOCATED	1	EP-3	B6/A0.6	C6/A0.6	-	-		13
B01A	APPARATUS BAYS	2	3'-0"	7'-0"	1 3/4"	HM	EXISTING	EP-3/EP-6	-	EXISTING	-	EP-3/EP-6	-	-	-	-		9.12, 14
B01B	STAIRS	2	3'-0"	7'-0"	1 3/4"	HM	EXISTING	EP-3	-	EXISTING	-	EP-3	-	-	-	-		4.12
C102A	CORR.	2.1	3'-0"	7'-0"	1 3/4"	HM	NL1	EP-3/EP-6	-	HM	2	EP-3/EP-6	B3/A0.7	D3/A0.7	-	-		2.7, 9, 14
C102B	CORR.	2.1	3'-0"	7'-0"	1 3/4"	HM	NL1	EP-3/EP-6	-	HM	2	EP-3/EP-6	B3/A0.7	D3/A0.7	-	-		2.7, 9, 14
C103A	CORR.	3	3'-0"	7'-0"	1 3/4"	HM	F1	EP-3/EP-6	-	HM	2	EP-3/EP-6	B3/A0.7	D3/A0.7	-	-		2.7, 14
C103B	CORR.	4	3'-0"	7'-0"	1 3/4"	WD	NL1	STAIN	-	HM	1	EP-3	B6/A0.6	C6/A0.6	-	-	90 MIN.	4
C105	APPARATUS BAYS	2	3'-0"	7'-0"	1 3/4"	HM	EXISTING	EP-3	-	EXISTING	-	EP-3	-	-	-	-		4.12

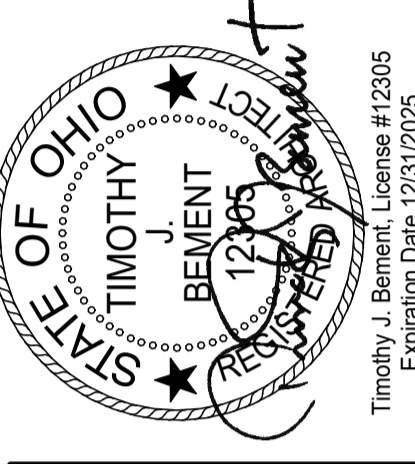
DOOR REMARKS

No.	REMARK
1	SIGN TYPE 1 AT THIS DOOR.
2	SIGN TYPE 2 AT THIS DOOR.
3	SIGN TYPE 3 AT THIS DOOR.
4	SIGN TYPE 4 AT THIS DOOR.
5	SIGN TYPE 5 AT THIS DOOR. MOUNT INSIDE SHELTER.
6	HIGH IMPACT DOOR AND FRAME TO MEET ICC 500 STANDARDS. 3/8" MAXIMUM UNDERCUT. COORDINATE WITH DOOR MANUFACTURER TO ENSURE COMPLIANCE.
7	HIGH VALUE INSULATED DOOR. INSULATED GLAZING IN TYPE NL1.
8	REFER TO STOREFRONT AND WINDOW SCHEDULE FOR MORE DETAILS.
9	PROVIDE ELECTRICAL ROUGH-IN AT THIS OPENINGS WITH CONDUIT ON THE HINGE SIDE OF THE ACTIVE LEAF AND INCLUDE A RACEWAY INSIDE THE ACTIVE DOOR FOR FUTURE INSTALLATION OF ELECTRIFIED HINGE AND ELECTRIC LOCKSET.
10	EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN. PAINT HM DOORS AND FRAMES COLOR AS INDICATED.
11	BASIS OF DESIGN: WESTERN WINDOW SERIES 9500 (3L1R), 4 PANEL BI-PARTING BI-FOLD DOOR, FLOOR LOAD (SWING OUT)
12	PROVIDE AND INSTALL NEW HARDWARE. EXISTING DOOR AND FRAME TO REMAIN. PAINT HM FRAME AND DOOR AS INDICATED.
13	SALVAGE EXISTING DOOR AND FRAME. PROVIDE AND INSTALL NEW HARDWARE. REFER TO REFERENCE PLANS FOR DETAILS.
14	PAINT INTERIOR OF DOOR AND FRAME EP-3. PAINT EXTERIOR OF DOOR AND FRAME EP-6.



NO.	DATE	DESCRIPTION
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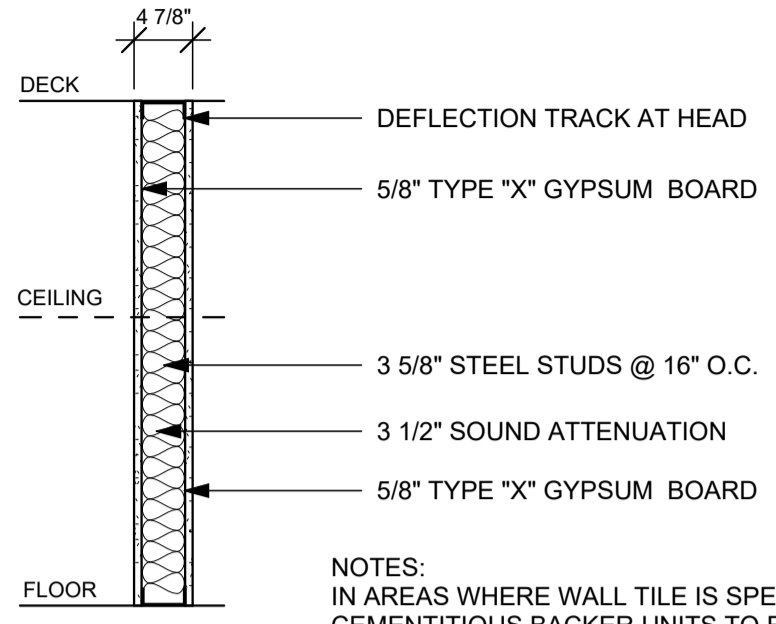
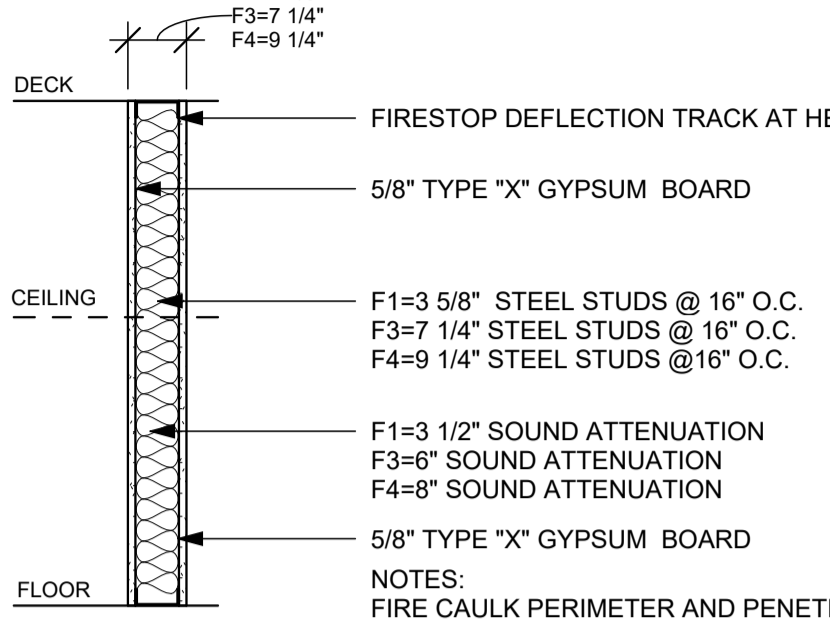
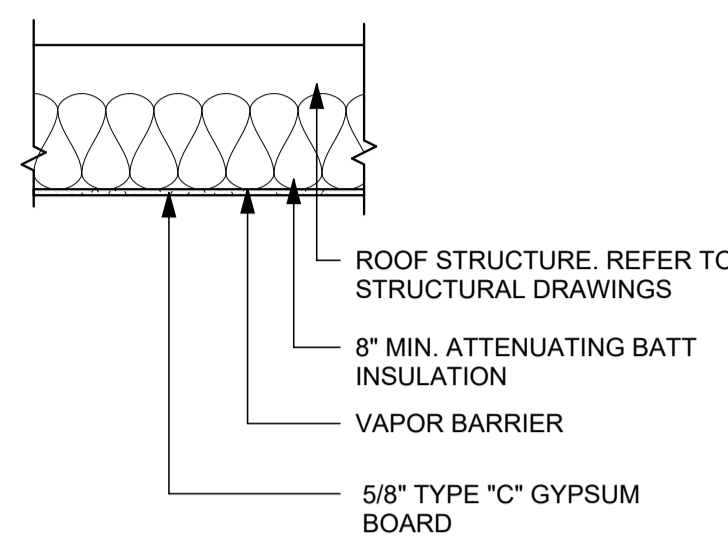
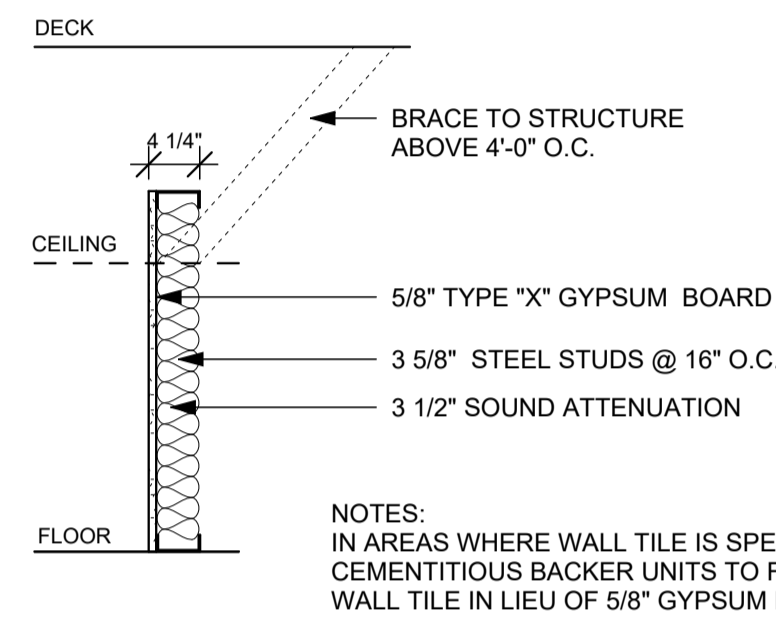
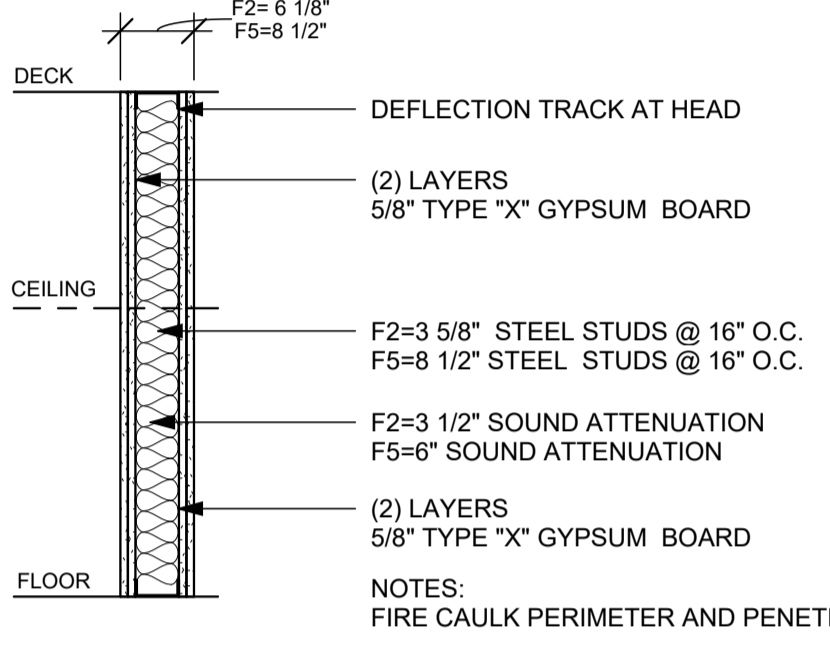
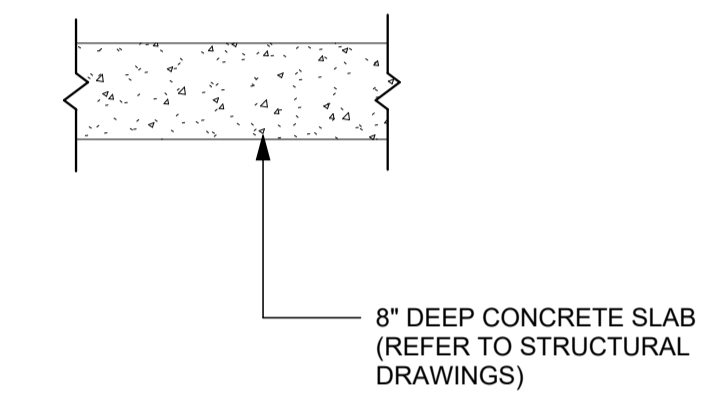
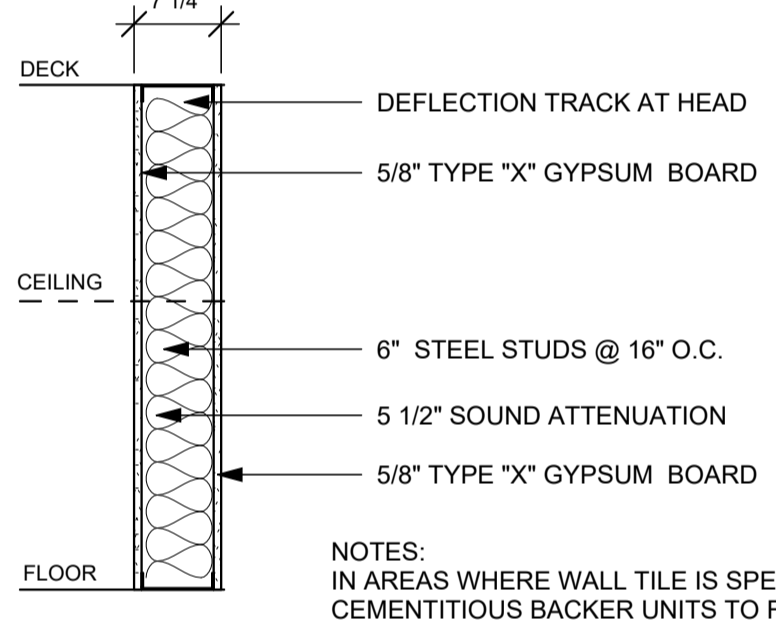
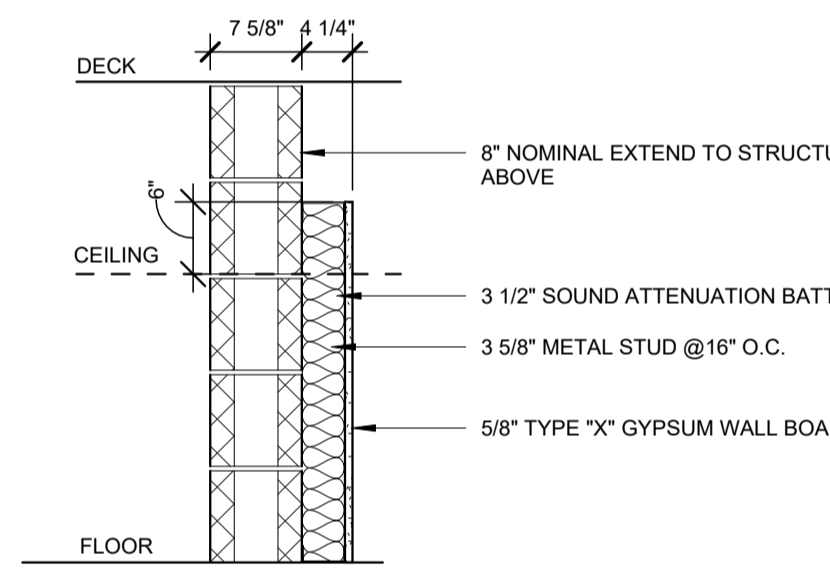
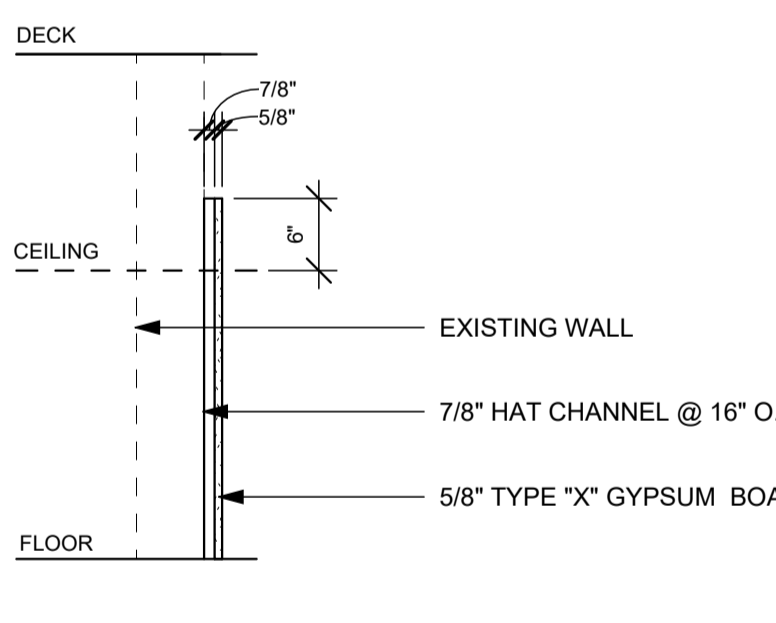
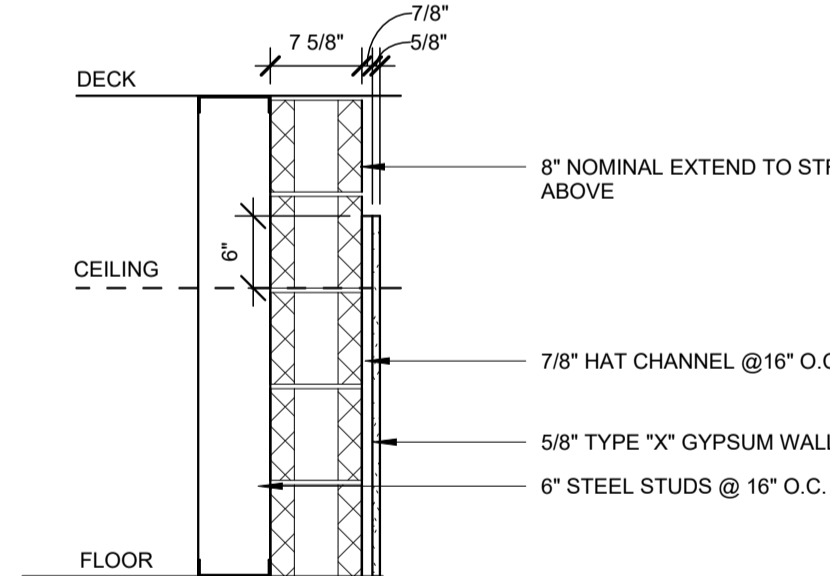
Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

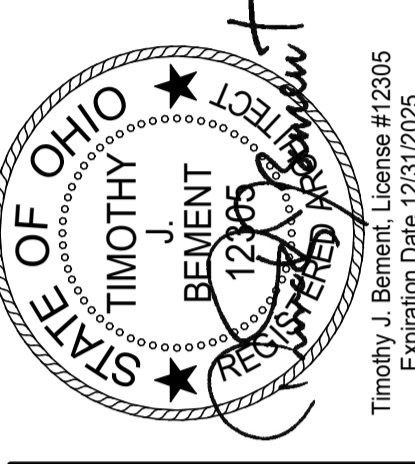
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TITLE DOOR SCHEDULES

SHEET NO.
A0.3

INTERIOR WALL TYPES SCHEDULE

TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES	TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES	TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
A1	3 5/8"	-	 <p>DEFLECTION TRACK AT HEAD 5/8" TYPE "X" GYPSUM BOARD 3 5/8" STEEL STUDS @ 16" O.C. 3 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD</p> <p>NOTES: IN AREAS WHERE WALL TILE IS SPECIFIED, USE 5/8" CEMENTITIOUS BACKER UNITS TO FULL HEIGHT OF WALL TILE IN LIEU OF 5/8" GYPSUM BOARD.</p>	F1 F3 F4	3 5/8" 6" 8"	1/2 HR. UL. NO. U465	 <p>FIRESTOP DEFLECTION TRACK AT HEAD 5/8" TYPE "X" GYPSUM BOARD F1=3 5/8" STEEL STUDS @ 16" O.C. F3=7 1/4" STEEL STUDS @ 16" O.C. F4=9 1/4" STEEL STUDS @ 16" O.C. F1=3 1/2" SOUND ATTENUATION F3=8" SOUND ATTENUATION F4=8" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD</p> <p>NOTES: FIRE CAULK PERIMETER AND PENETRATIONS.</p>	C1	-	1 HR. UL. NO. 283	 <p>(HORIZONTAL ASSEMBLY) ROOF STRUCTURE. REFER TO STRUCTURAL DRAWINGS 8" MIN. ATTENUATING BATT INSULATION VAPOR BARRIER 5/8" TYPE "C" GYPSUM BOARD</p>
A2	3 5/8"	-	 <p>BRACE TO STRUCTURE ABOVE 4'-0" O.C. 5/8" TYPE "X" GYPSUM BOARD 3 5/8" STEEL STUDS @ 16" O.C. 3 1/2" SOUND ATTENUATION</p> <p>NOTES: IN AREAS WHERE WALL TILE IS SPECIFIED, USE 5/8" CEMENTITIOUS BACKER UNITS TO FULL HEIGHT OF WALL TILE IN LIEU OF 5/8" GYPSUM BOARD.</p>	F2 F5	3 5/8" 6"	2 HR. UL. NO. U411	 <p>DEFLECTION TRACK AT HEAD (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD F2=3 5/8" STEEL STUDS @ 16" O.C. F5=8 1/2" STEEL STUDS @ 16" O.C. F2=3 1/2" SOUND ATTENUATION F5=6" SOUND ATTENUATION (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD</p> <p>NOTES: FIRE CAULK PERIMETER AND PENETRATIONS.</p>	C2	-	2 HR. UL. NO. D219	 <p>(HORIZONTAL ASSEMBLY) INSTALL OVER TORNADO SHELTER 8" DEEP CONCRETE SLAB (REFER TO STRUCTURAL DRAWINGS)</p>
A3	6"	-	 <p>DEFLECTION TRACK AT HEAD 5/8" TYPE "X" GYPSUM BOARD 6" STEEL STUDS @ 16" O.C. 5 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD</p> <p>NOTES: IN AREAS WHERE WALL TILE IS SPECIFIED, USE 5/8" CEMENTITIOUS BACKER UNITS TO FULL HEIGHT OF WALL TILE IN LIEU OF 5/8" GYPSUM BOARD.</p>	M1	7 5/8"	2 HR. UL. NO. U905	 <p>8" NOMINAL EXTEND TO STRUCTURE ABOVE 3 1/2" SOUND ATTENUATION BATTS 3 5/8" METAL STUD @ 16" O.C. 5/8" TYPE "X" GYPSUM WALL BOARD</p>				
A4	7/8"	-	 <p>EXISTING WALL 7/8" HAT CHANNEL @ 16" O.C. 5/8" TYPE "X" GYPSUM BOARD</p>	M2	7 5/8"	2 HR. UL. NO. U905	 <p>8" NOMINAL EXTEND TO STRUCTURE ABOVE 7/8" HAT CHANNEL @ 16" O.C. 5/8" TYPE "X" GYPSUM WALL BOARD 6" STEEL STUDS @ 16" O.C.</p>	<p>GENERAL NOTES</p> <p>A. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHALL BE USED BEHIND ALL SINKS, SERVICE SINKS AND SHOWER AREAS. EXTEND MINIMUM 24" BEYOND PLUMBING FIXTURES.</p> <p>B. PROVIDE & INSTALL DEFLECTION TRACK AT ALL INTERIOR WALLS THAT EXTEND TO DECK.</p> <p>C. UL TEST NUMBERS FOR INTERIOR PARTITIONS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED. MAINTAIN RATING AND ADVISE IF WALL THICKNESS WILL CHANGE.</p> <p>D. DRYWALL CONTRACTOR TO PAINT WALL RATINGS LABELS AT MAXIMUM 12 FEET O.C. ON ALL FIRE RATED PARTITIONS. LABEL TO BE PAINTED ABOVE CEILING WITH A STENCIL MIN. OF 4 INCHES IN HEIGHT, BLACK COLOR.</p> <p>E. FIRE RATED WALLS AND SMOKE PARTITIONS ARE TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING AND OTHER PENETRATIONS. ALL PENETRATIONS AND PERIMETER OF WALLS TO BE FIRE CAULKED.</p> <p>F. STEEL STUD PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.</p> <p>G. REFER TO FLOOR PLANS FOR LOCATIONS OF INTERIOR PARTITION TYPES.</p> <p>H. REFER TO SHEET A0.9 FOR TYPICAL INTERIOR PARTITIONS DETAILS.</p> <p>I. ALL PARTITIONS SCHEDULED TO RECEIVE WALL TILE SHALL HAVE CEMENTITIOUS BACKER UNIT TO FULL HEIGHT OF WALL TILE.</p> <p>J. ALL PENETRATIONS IN FIRE RATED PARTITIONS SHALL BE FIRESTOPPED, WHETHER THEY ARE NEW OR EXISTING, INCLUDING THOSE CREATED BY THE REMOVAL OF AN EXISTING PENETRATING ITEM. FIRESTOPPING SYSTEMS SHALL BE FM OR U.L. LABORATORY APPROVED PRODUCTS.</p> <p>K. AT ALL STC-RATED ACOUSTICAL / SOUND CONTROL TYPE PARTITIONS APPLY ACOUSTICAL SEALANT AT PERIMETER OF PARTITION AND AROUND ELECTRICAL RECEPTACLES, PIPES AND DUCT PENETRATIONS. ACOUSTICAL SEALANT SHALL BE APPLIED TO BOTH FACES OF PARTITION.</p>			



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DATE	12/18/2024
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TITLE	WALL TYPES

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1

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A

B

C

D

E

F

A

B

C

D

E

F

STOREFRONT SCHEDULE

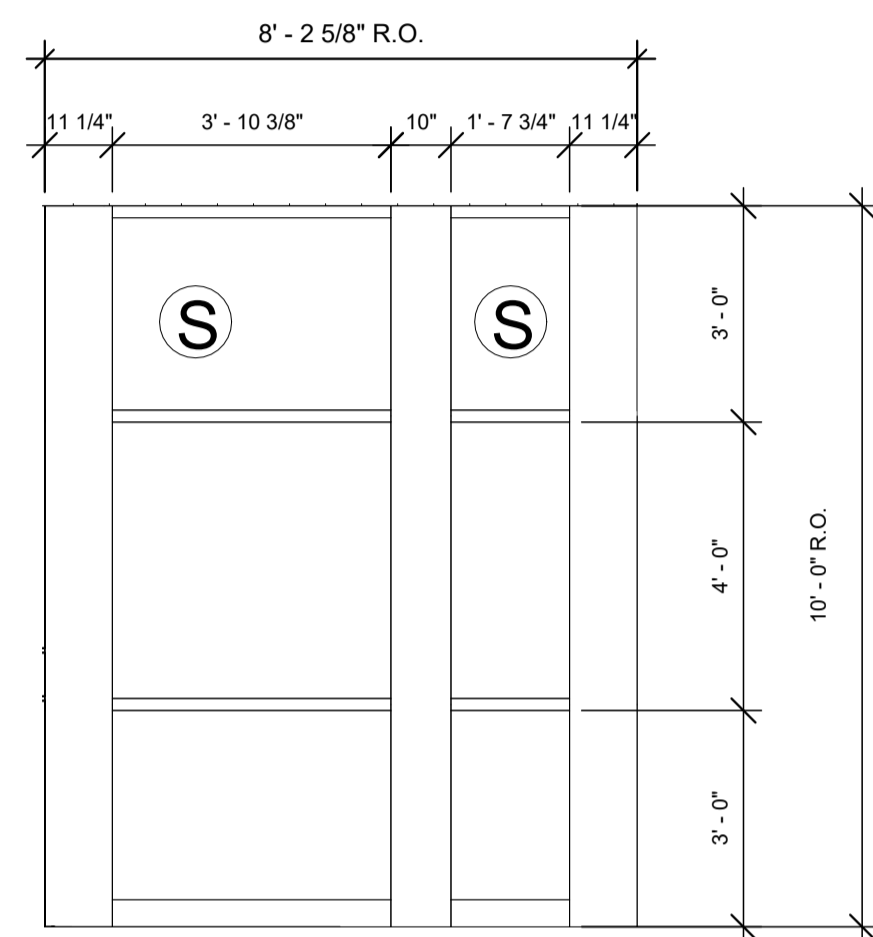
TYPE	ROUGH OPENING		JAMB	HEAD	SILL	HEAD HEIGHT	COMMENTS
	WIDTH	HEIGHT					
SF-1	8' - 2 5/8"	10' - 0"	B3 & E3/A0.8	D1/A5.4	C1/A0.6	10' - 0"	1
SF-2	9' - 1 7/8"	13' - 0"	B3/A0.8	D1/A5.4	B1 & C1/A0.6	13' - 0"	1,3
SF-3	2' - 7 1/8"	8' - 0"	B3 & E3/A0.8 SIM.	D1/A5.4	C1/A0.6	8' - 0"	1
SF-4	2' - 8"	4' - 8"	D1/A0.7	B1/A0.7	F1/A0.7	7' - 4"	1
SF-5	11' - 0"	2' - 0"	D1/A0.7	B1/A0.7	F3/A0.7	8' - 0"	1
SF-6	3' - 0"	8' - 0"	F5/A0.8	B5/A0.8	D5/A0.8	8' - 0"	1,5
SF-7	5' - 4"	8' - 0"	C2/A0.6	B2/A0.6	B1 & C1/A0.6	8' - 0"	2,4
SF-8	5' - 0"	7' - 2"	C2/A0.6	B2/A0.6	B1 & C1/A0.6	7' - 2"	2,4

WINDOW REMARKS

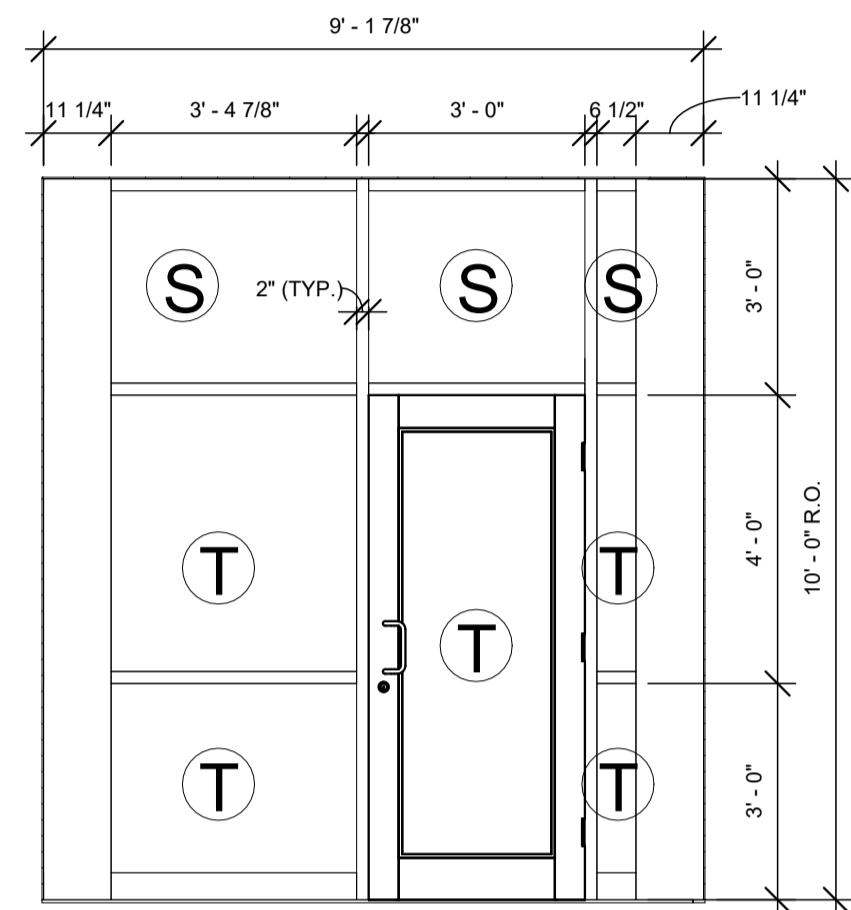
No.	REMARK
1	BASIS OF DESIGN: KAWNEER TRIFAB VERSAGLAZE 451T FRAMING SYSTEM WITH 2" x 4 1/2" MULLIONS AND 1" INSULATED, TINTED GLAZING UNLESS NOTED OTHERWISE.
2	BASIS OF DESIGN: KAWNEER TRIFAB VERSAGLAZE 480 FRAMING SYSTEM WITH 1 3/4" x 4 1/2" MULLIONS AND CLEAR GLAZING UNLESS NOTES OTHERWISE.
3	EXTERIOR DOOR BASIS OF DESIGN: KAWNEER INSULCAD 560 WIDE STILE THERMAL ENTRANCE DOOR.
4	INTERIOR DOOR BASIS OF DESIGN: KAWNEER 500 WIDE STILE STANDARD ENTRANCE DOOR.
5	VERIFY EXISTING CONDITIONS FOR STOREFRONT IN EXISTING MASONRY WALLS. NOTIFY ARCHITECT IF CONDITIONS DIFFER FROM SHOWN. BRICK AND CMU ARE EXISTING CONDITIONS. TOOTH IN BRICK AND BLOCK AS NECESSARY.

ALL STOREFRONT: 1/4" MAXIMUM CAULK JOINT AT JAMBS AND HEADS
5/8" MAXIMUM CAULK JOINT AT SILLS

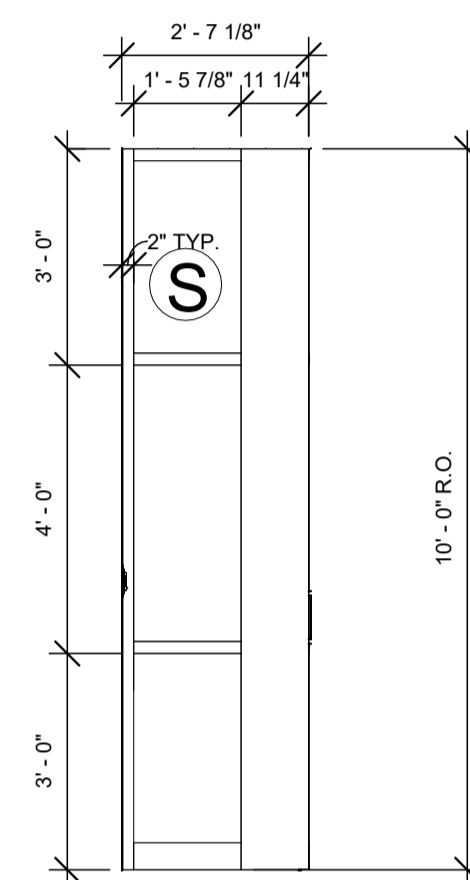
- (T) TEMPERED GLASS PANEL
- (S) SPANDREL GLASS PANEL



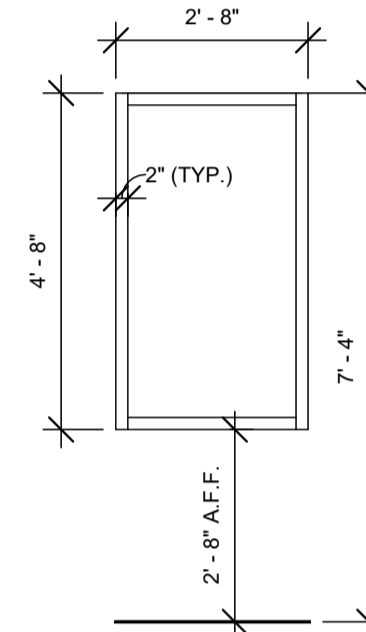
(C2) SF-1
3/8" = 1'-0"



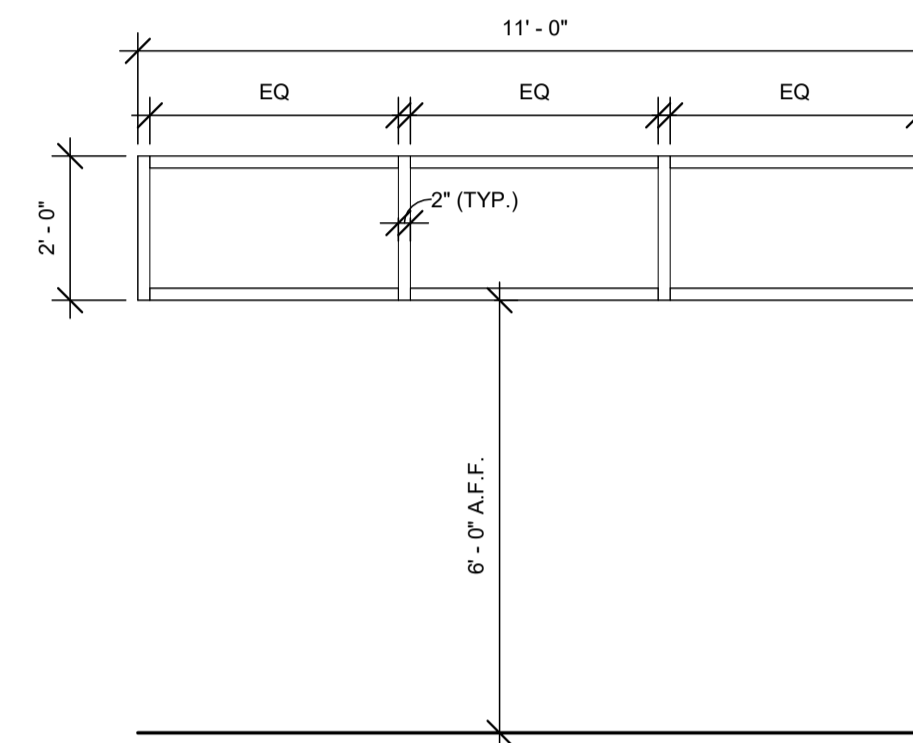
(C3) SF-2
3/8" = 1'-0"



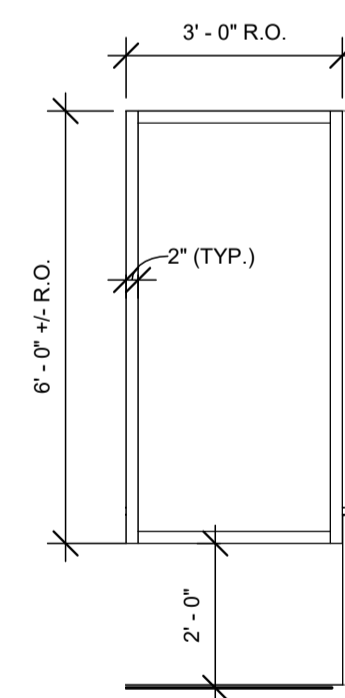
(C4) SF-3
3/8" = 1'-0"



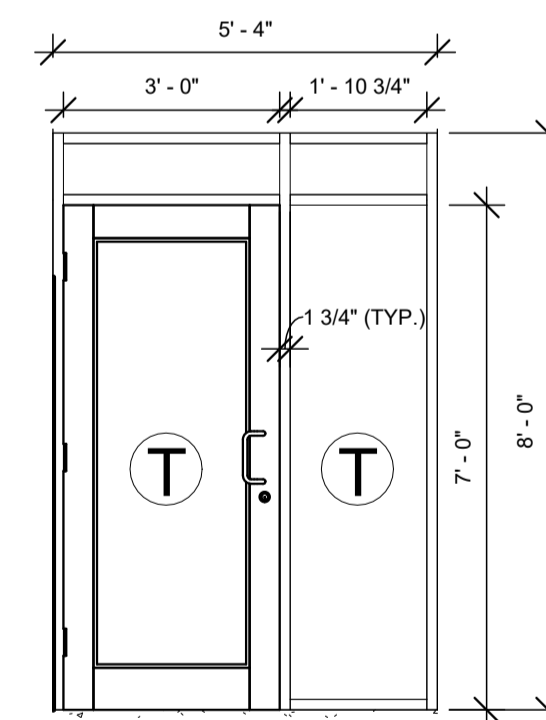
(C5) SF-4
3/8" = 1'-0"



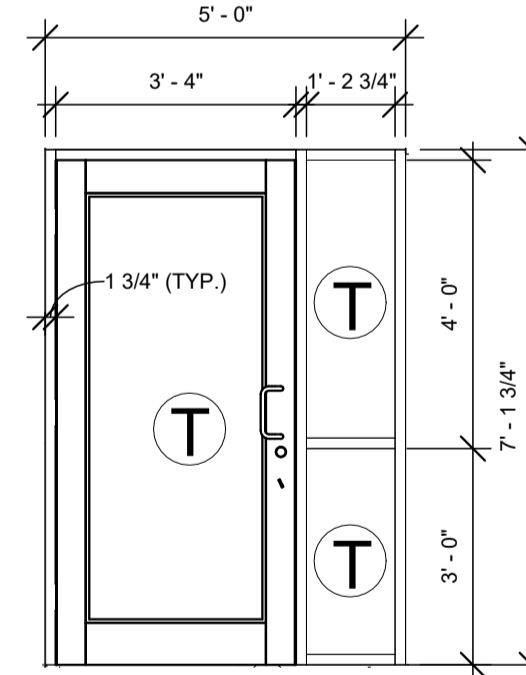
(C6) SF-5
3/8" = 1'-0"



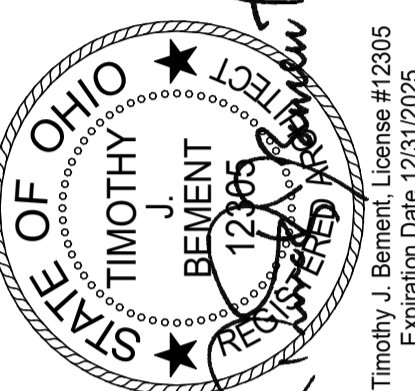
(E4) SF-6
3/8" = 1'-0"



(E5) SF-7
3/8" = 1'-0"



(E6) SF-8
3/8" = 1'-0"

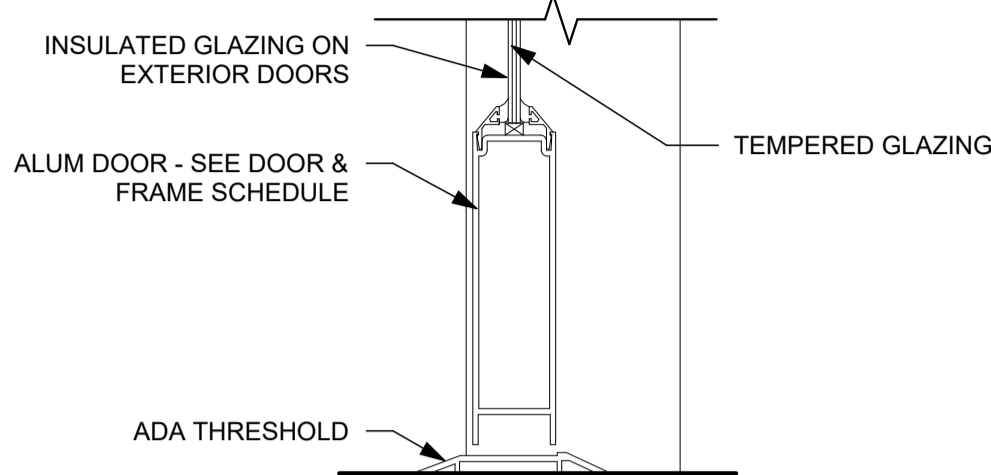


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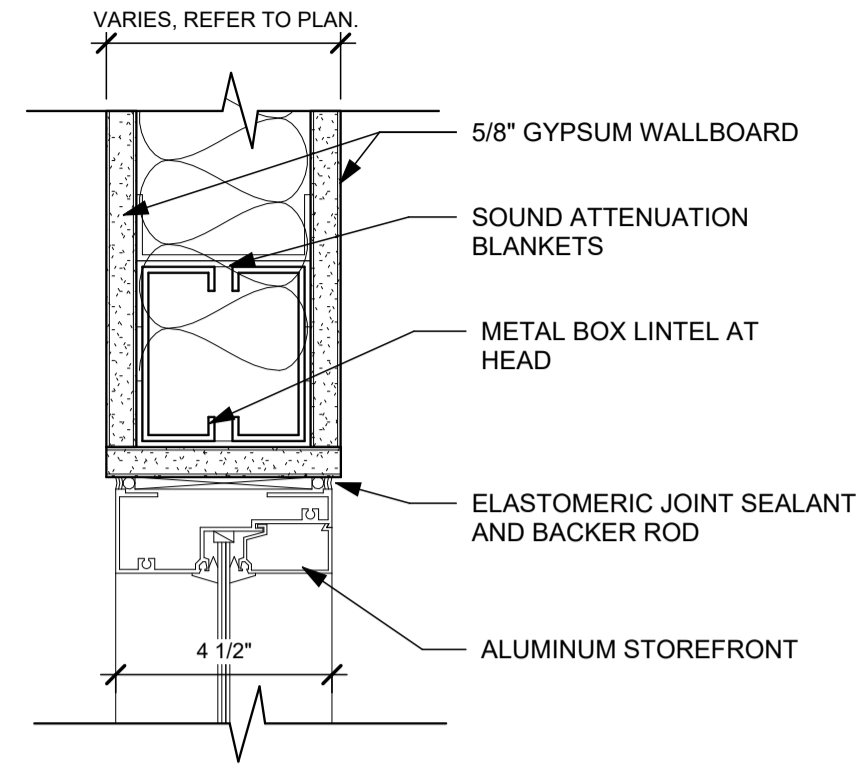
DATE	12/18/2024
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CHECKED	TJB

TITLE
STOREFRONT AND WINDOWS

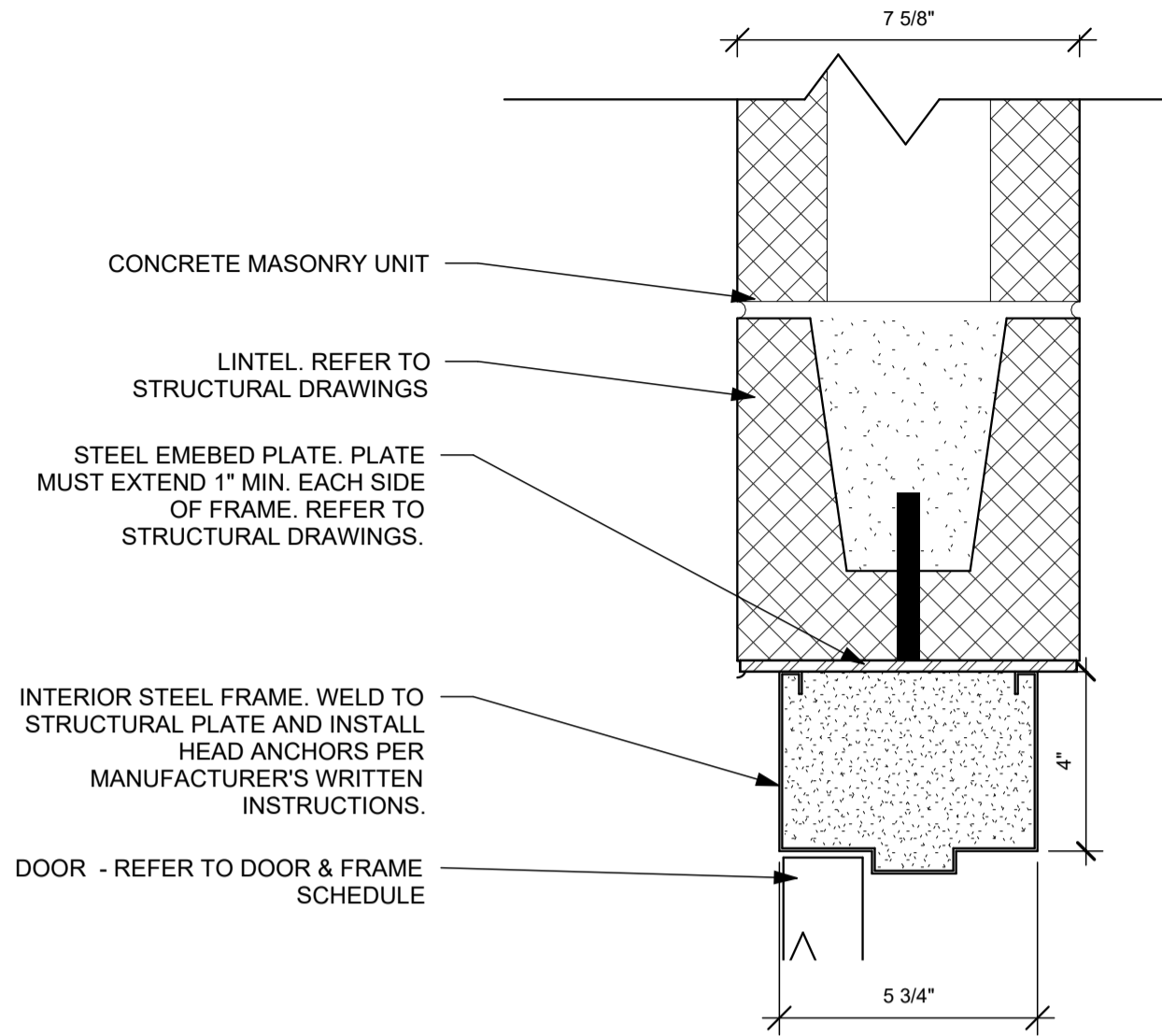
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A0.5



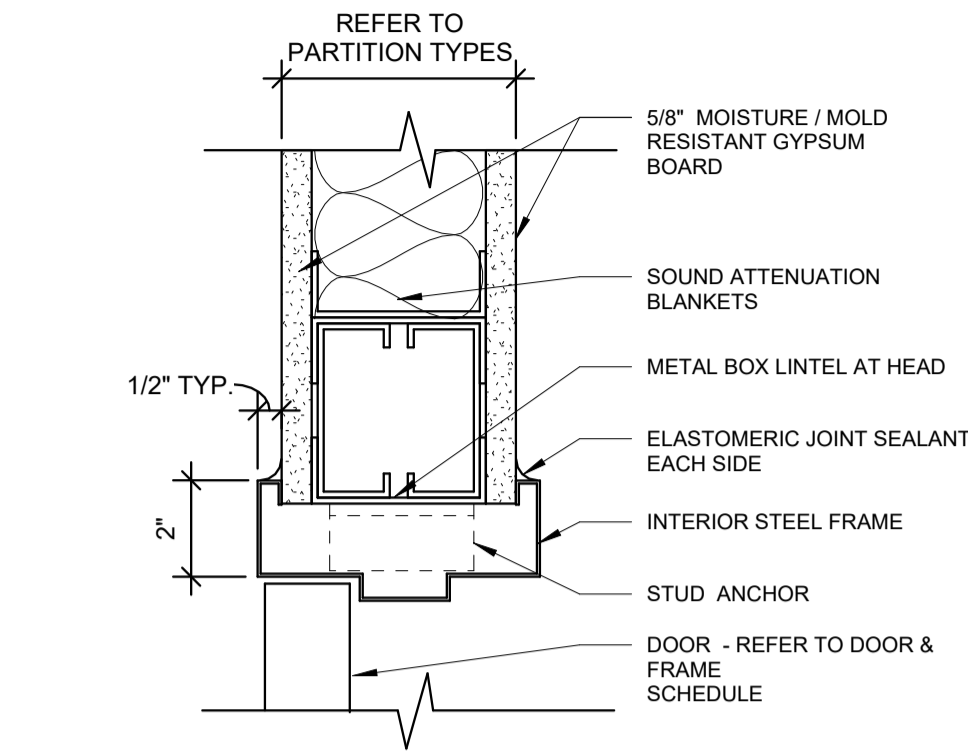
B1 SILL DETAIL - STOREFRONT DOOR
3" = 1'-0"



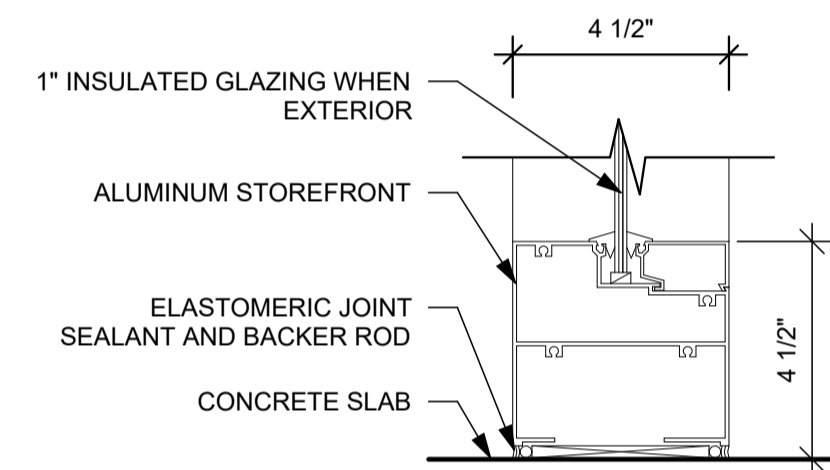
B2 HEAD DETAIL - INTERIOR STOREFRONT
3" = 1'-0"



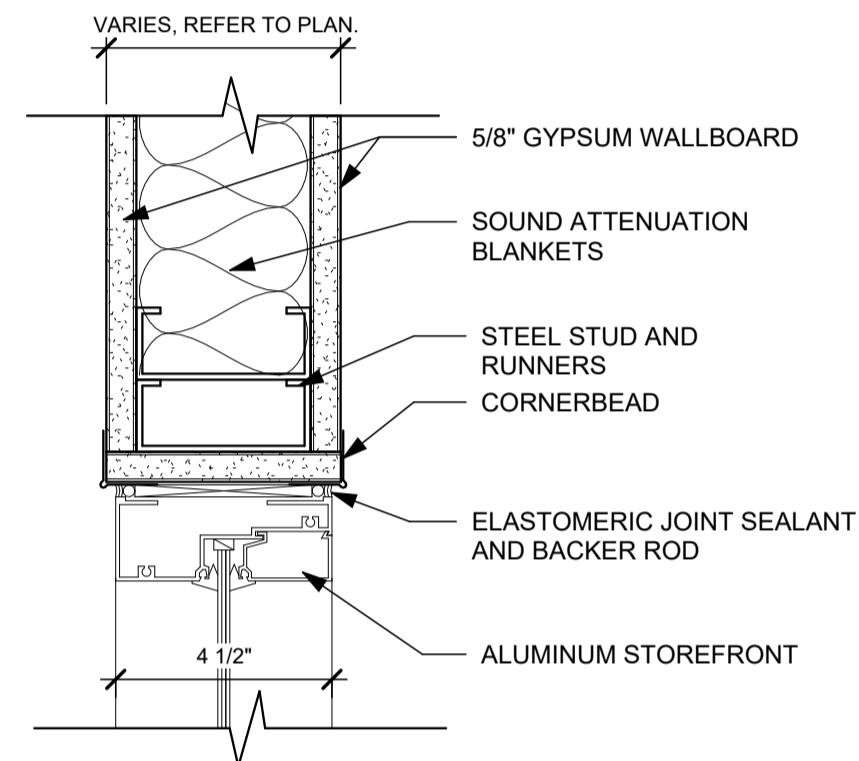
C4 HEAD DETAIL - HOLLOW METAL (STORM)
3" = 1'-0"



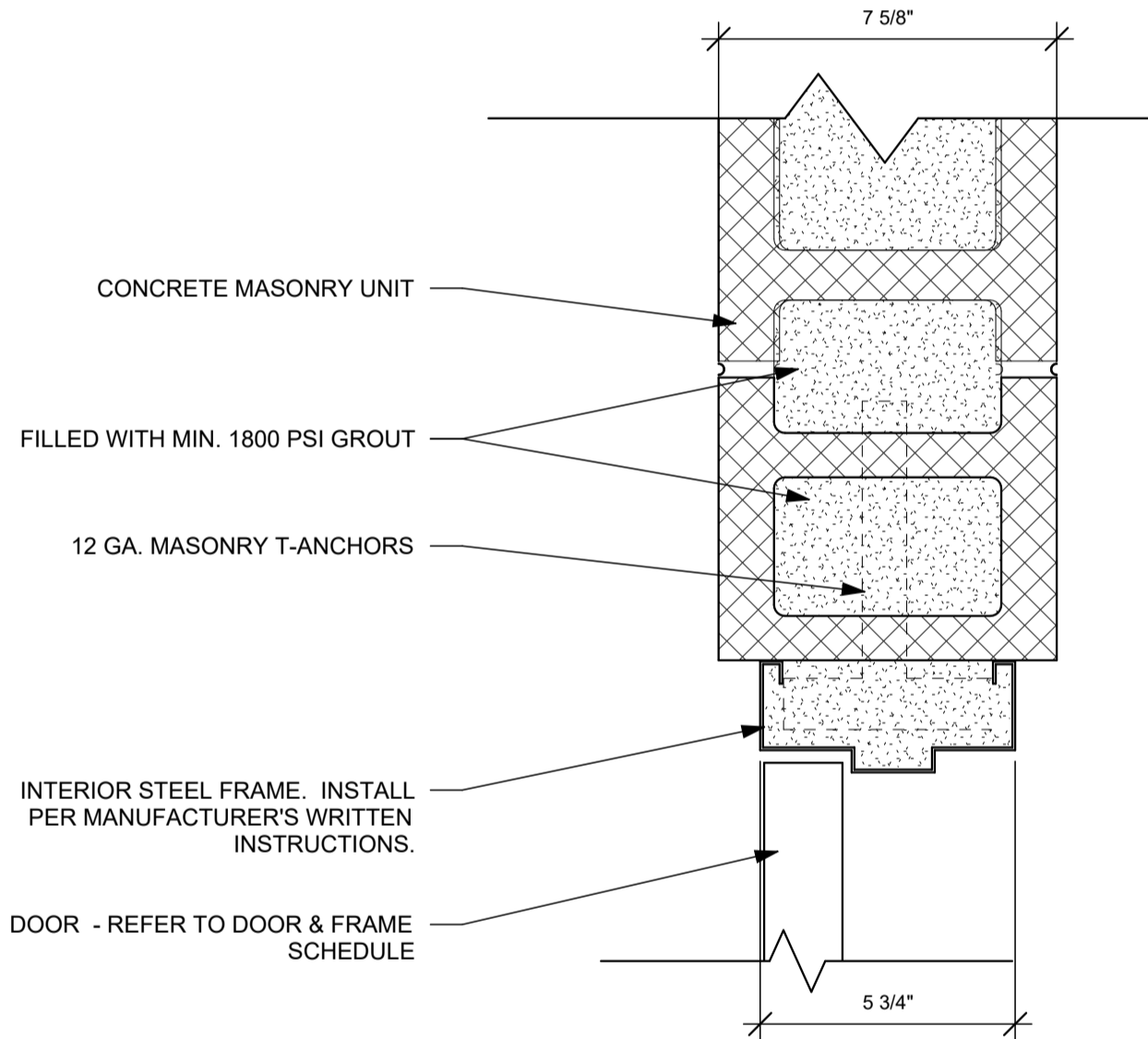
B6 HEAD DETAIL - METAL STUD DOOR FRAME
3" = 1'-0"



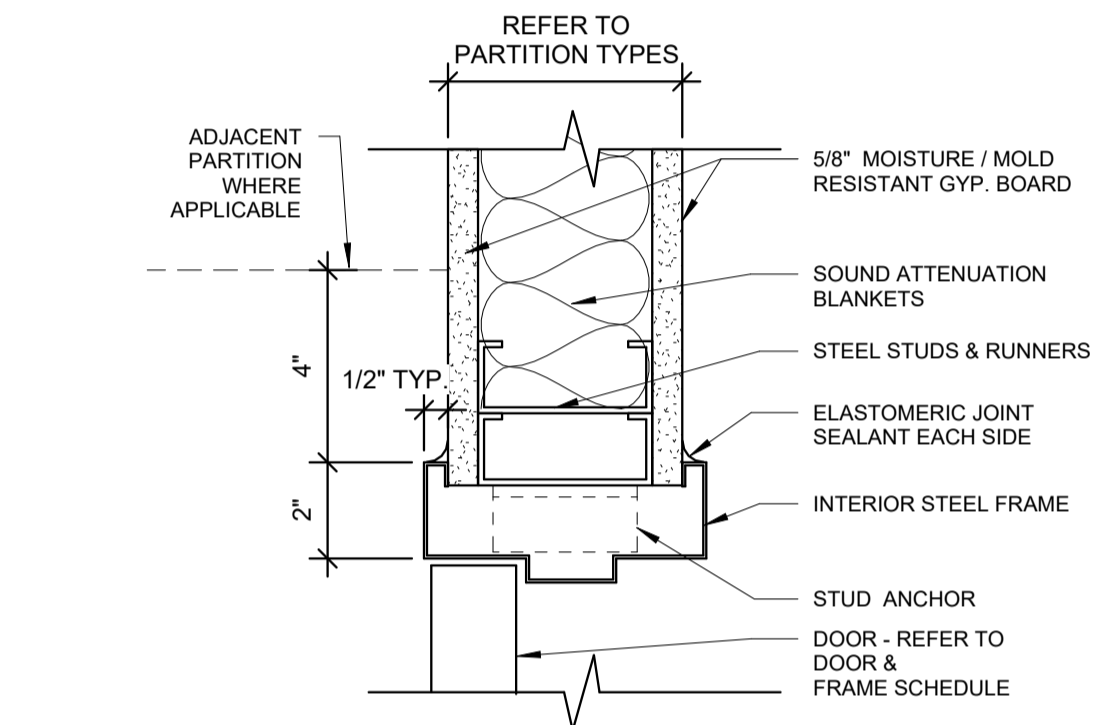
C1 SILL DETAIL - STOREFRONT
3" = 1'-0"



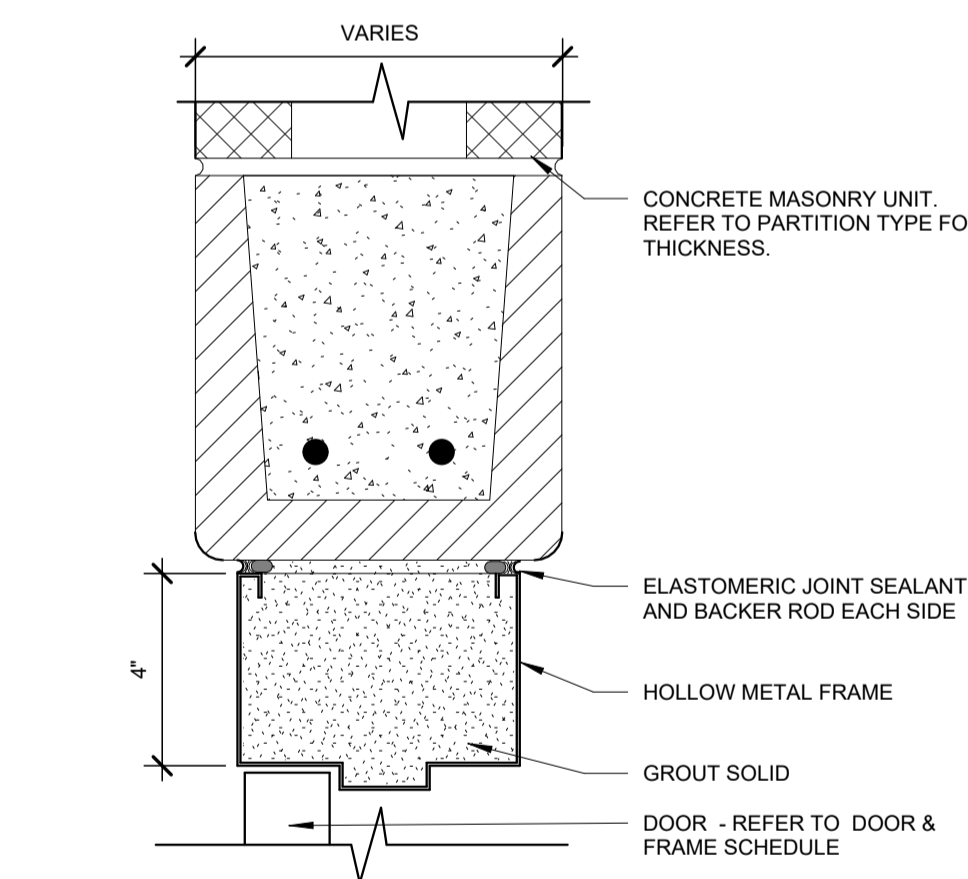
C2 JAMB DETAIL - INTERIOR STOREFRONT
3" = 1'-0"



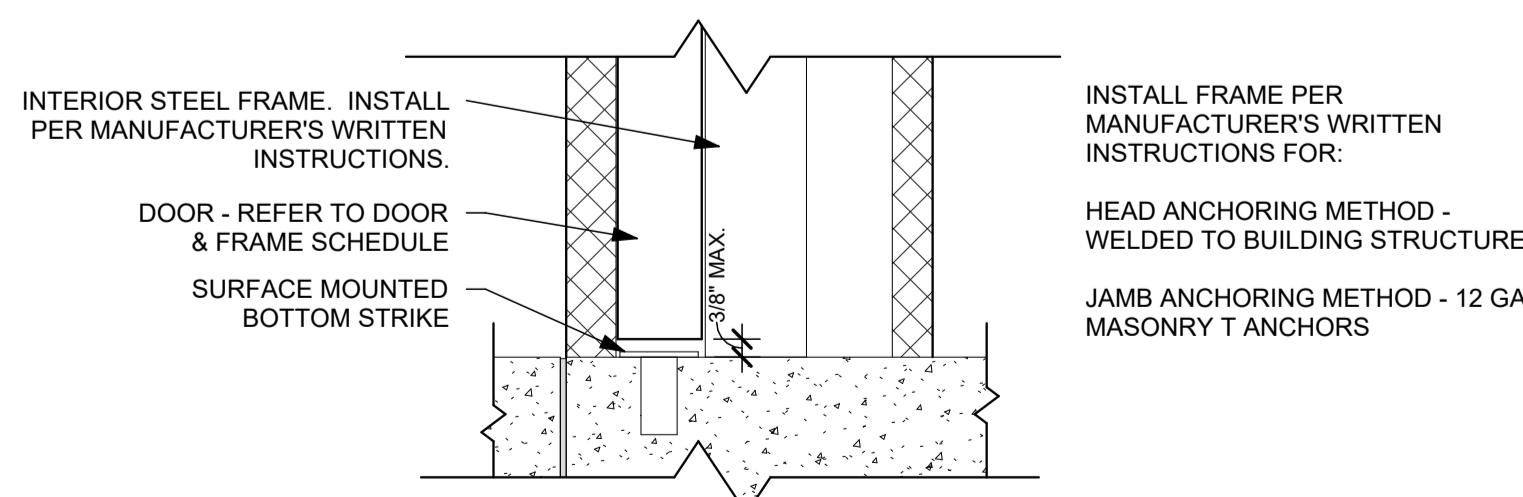
D4 JAMB DETAIL - HOLLOW METAL (STORM)
3" = 1'-0"



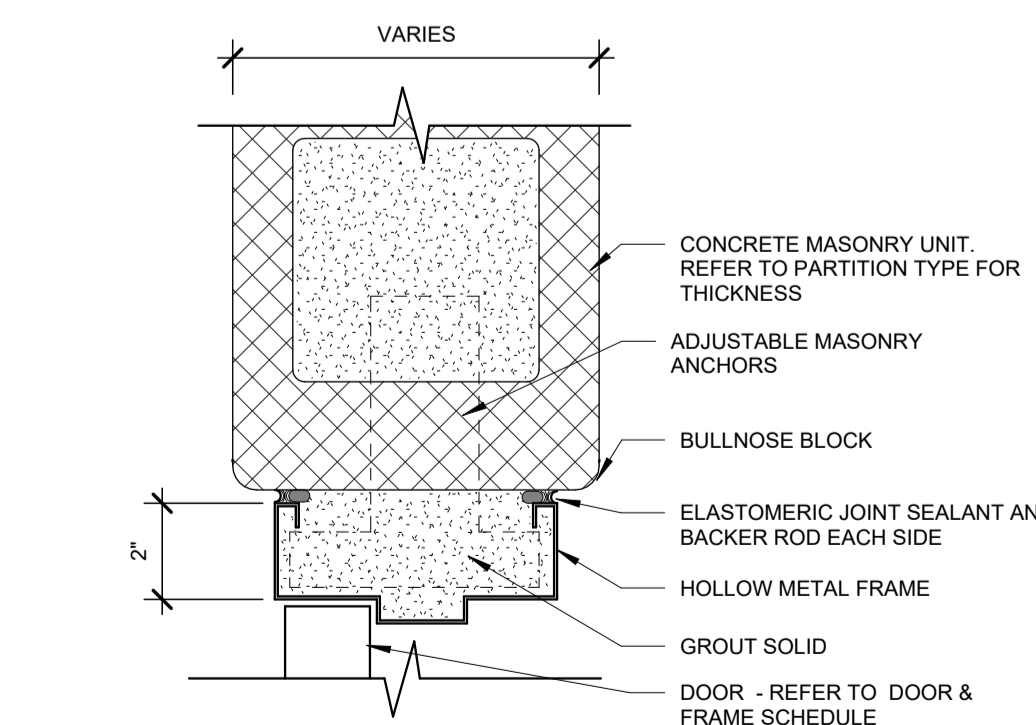
C6 JAMB DETAIL - METAL STUD DOOR FRAME
3" = 1'-0"



E6 HEAD DETAIL - CMU
3" = 1'-0"



F4 SILL DETAIL - HOLLOW METAL (STORM)
3" = 1'-0"



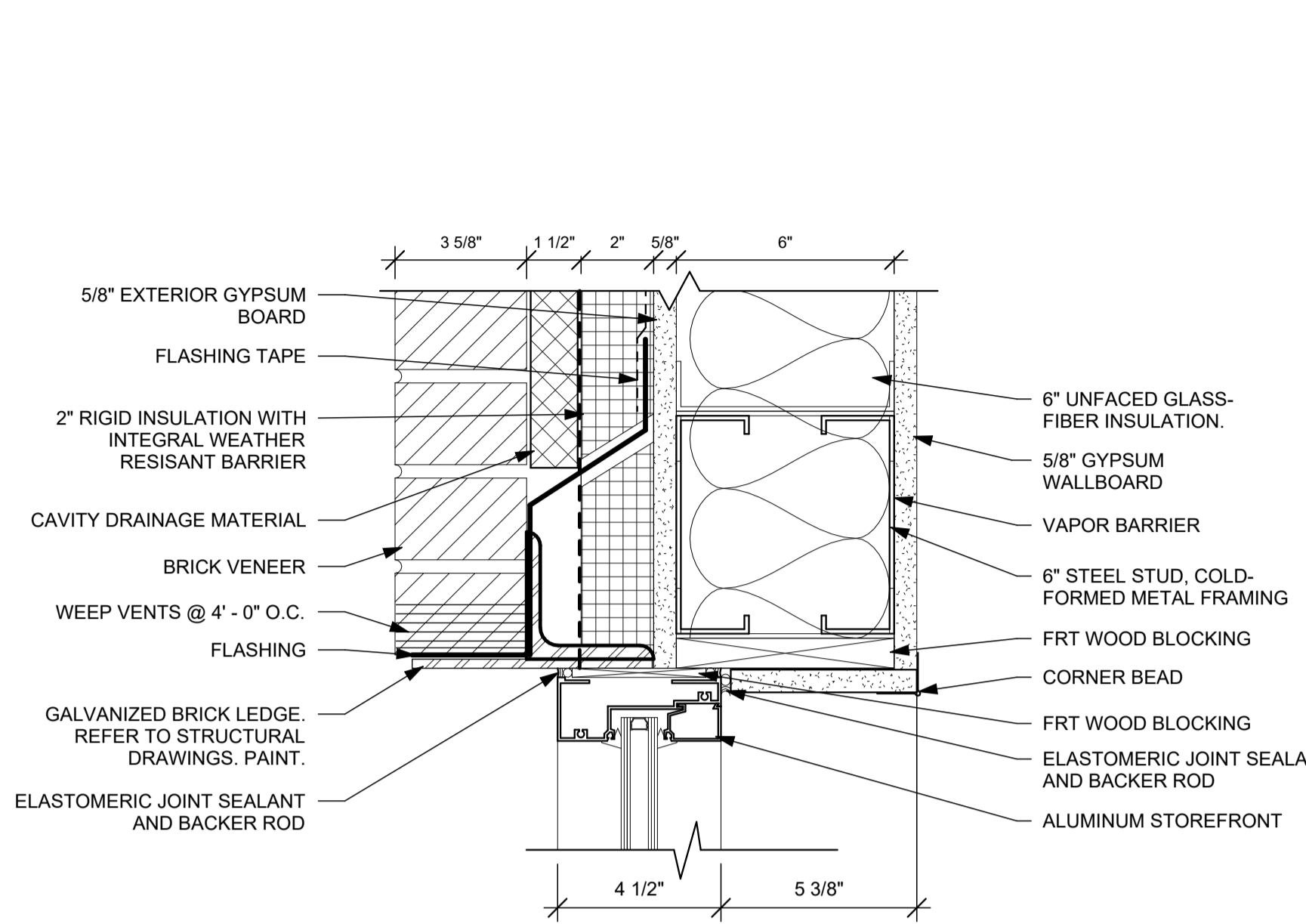
F6 JAMB DETAIL - CMU
3" = 1'-0"

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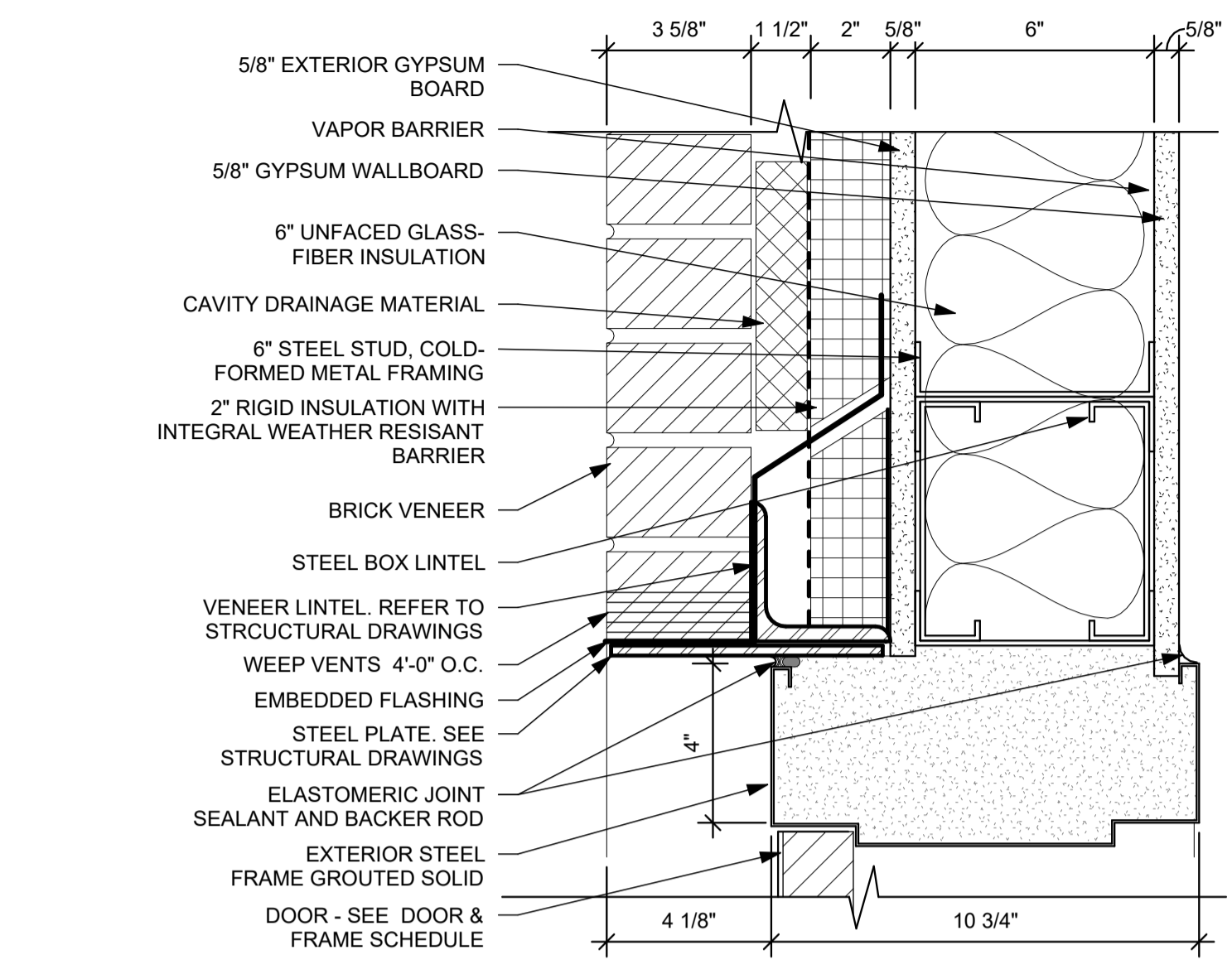
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TITLE DOOR AND WINDOW DETAILS	
SHEET NO.	

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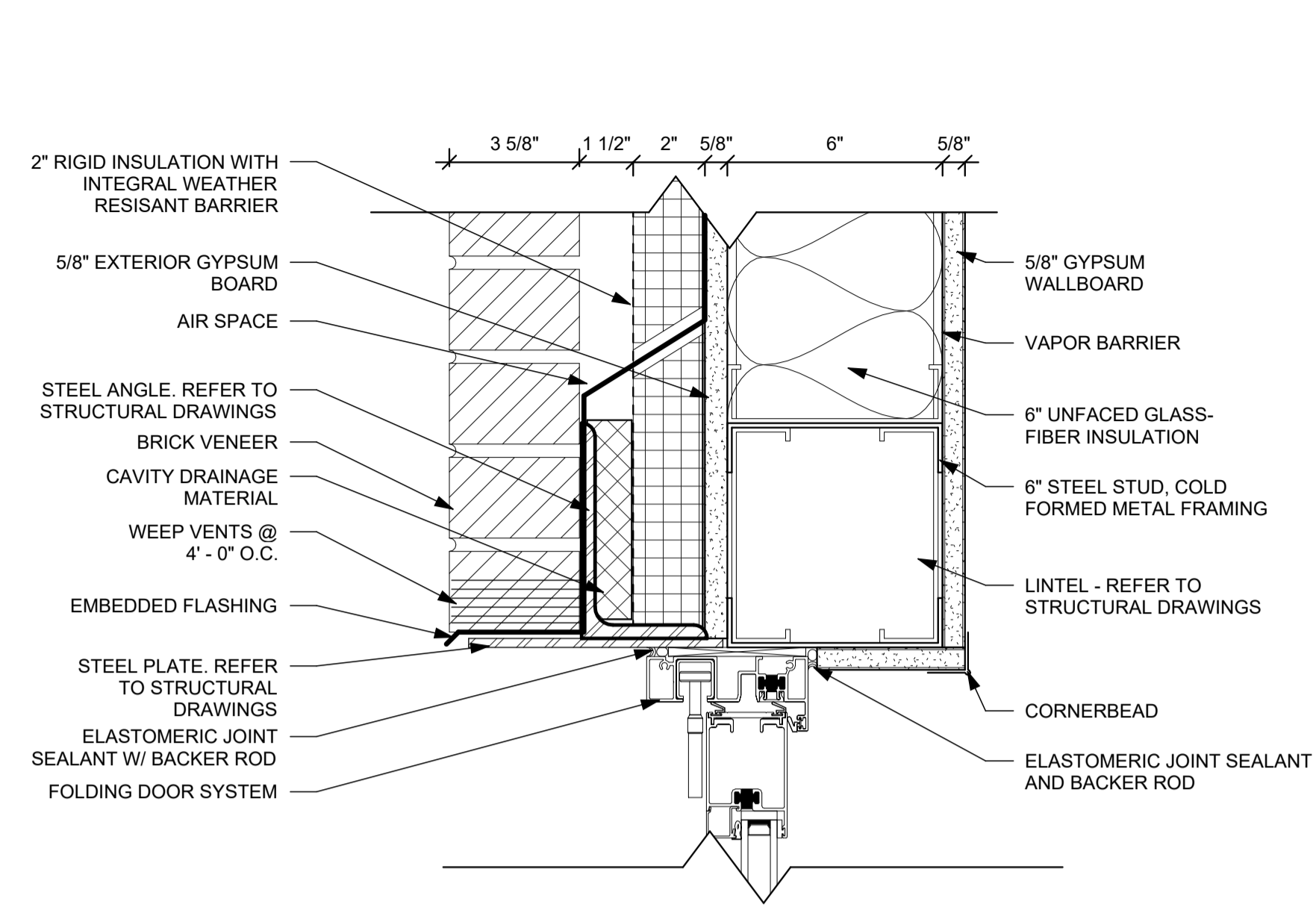
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B1 HEAD DETAIL - BRICK AND METAL STUD
3" = 1'-0"



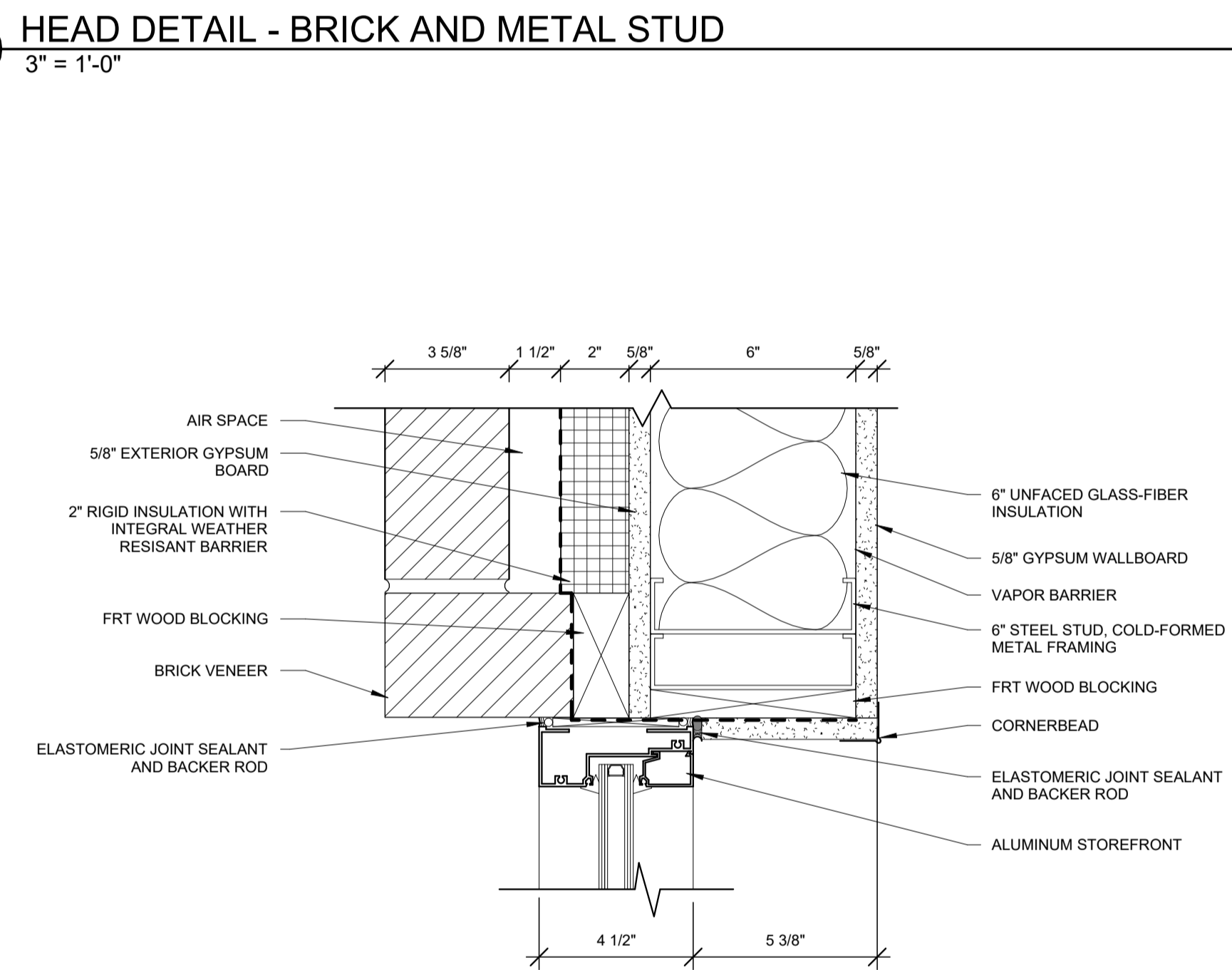
B3 HEAD DETAIL - METAL STUD
3" = 1'-0"



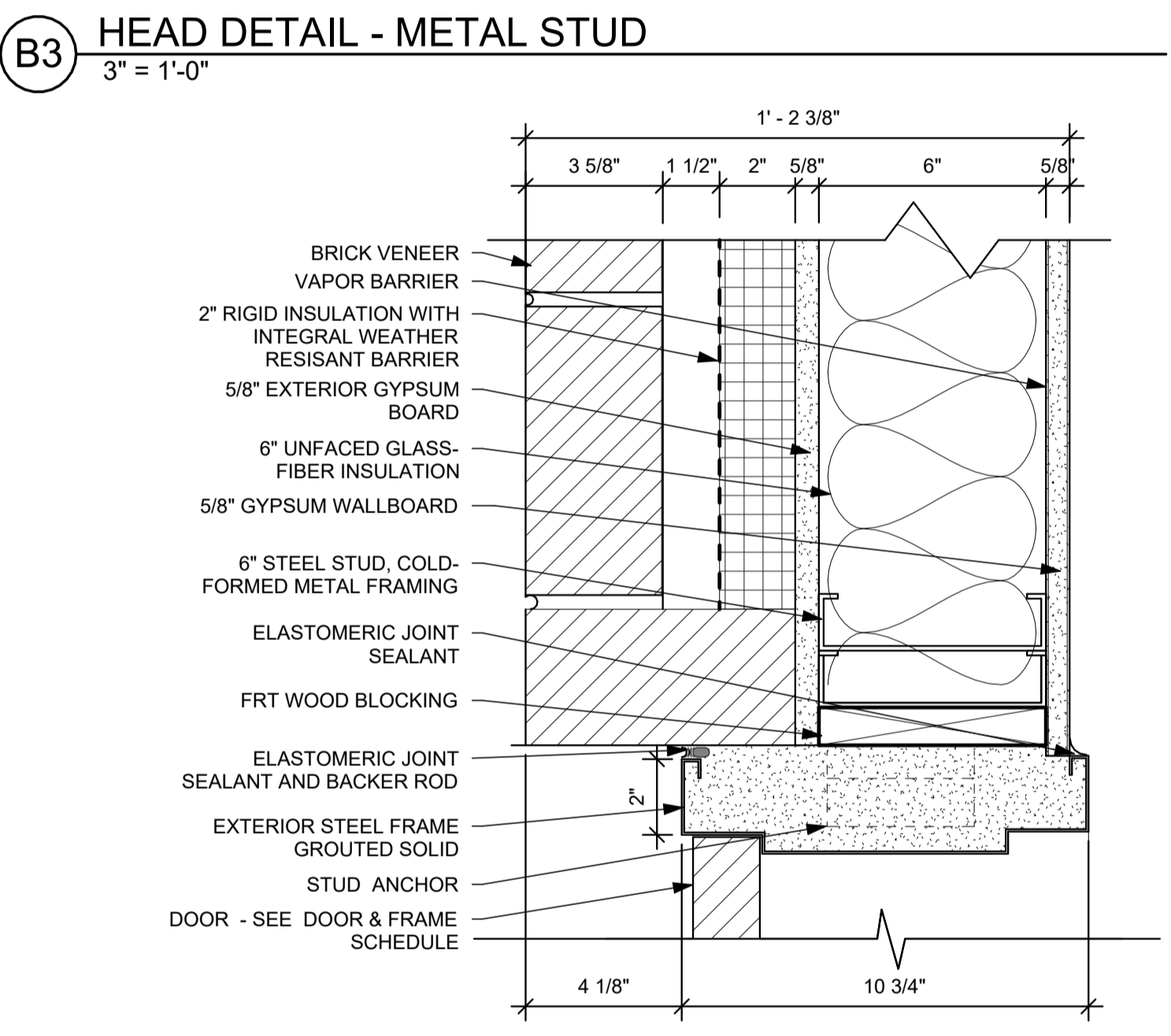
B5 HEAD DETAIL - BIFOLD DOOR
3" = 1'-0"

B

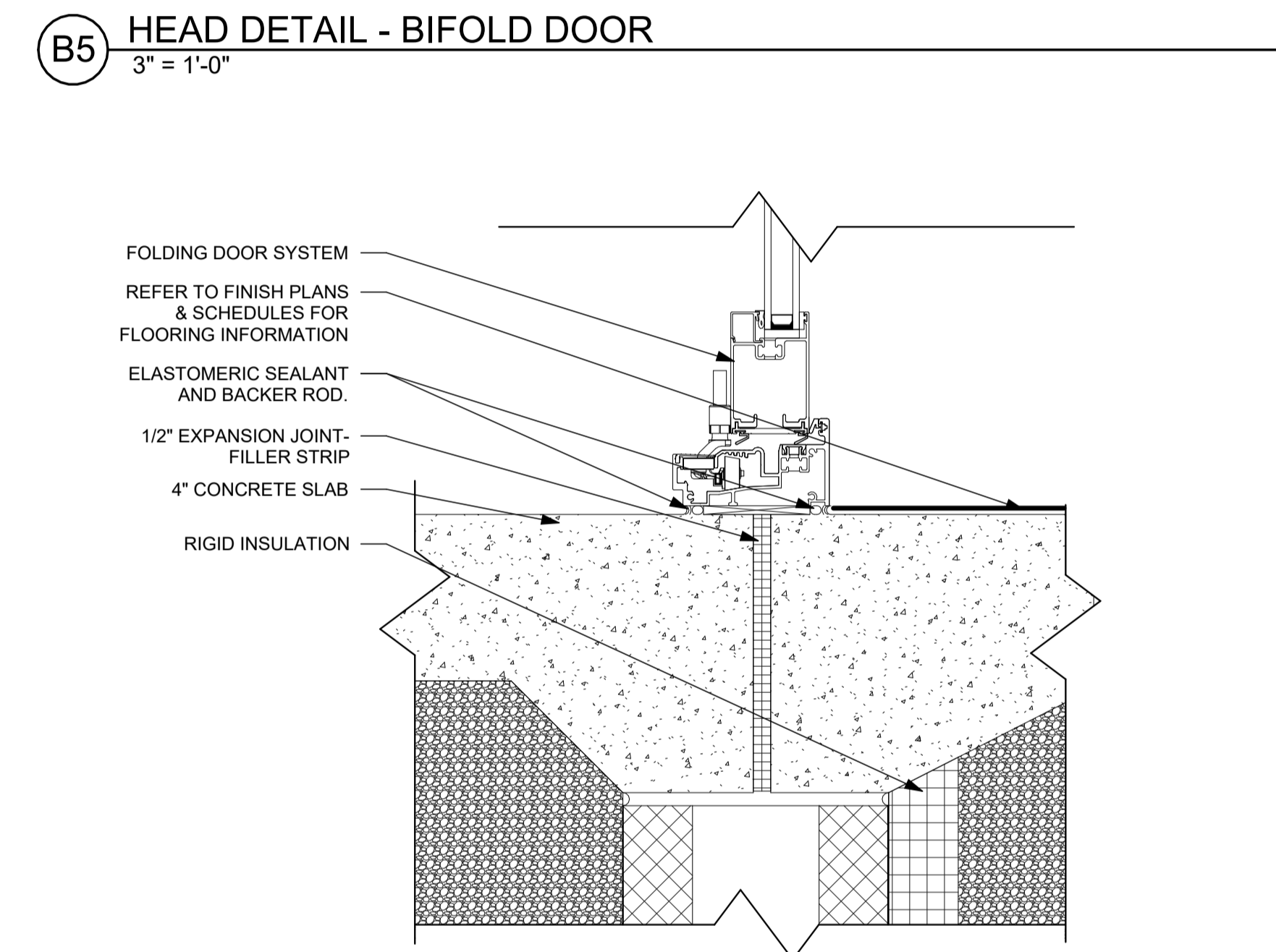
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D1 JAMB DETAIL - BRICK AND METAL STUD
3" = 1'-0"



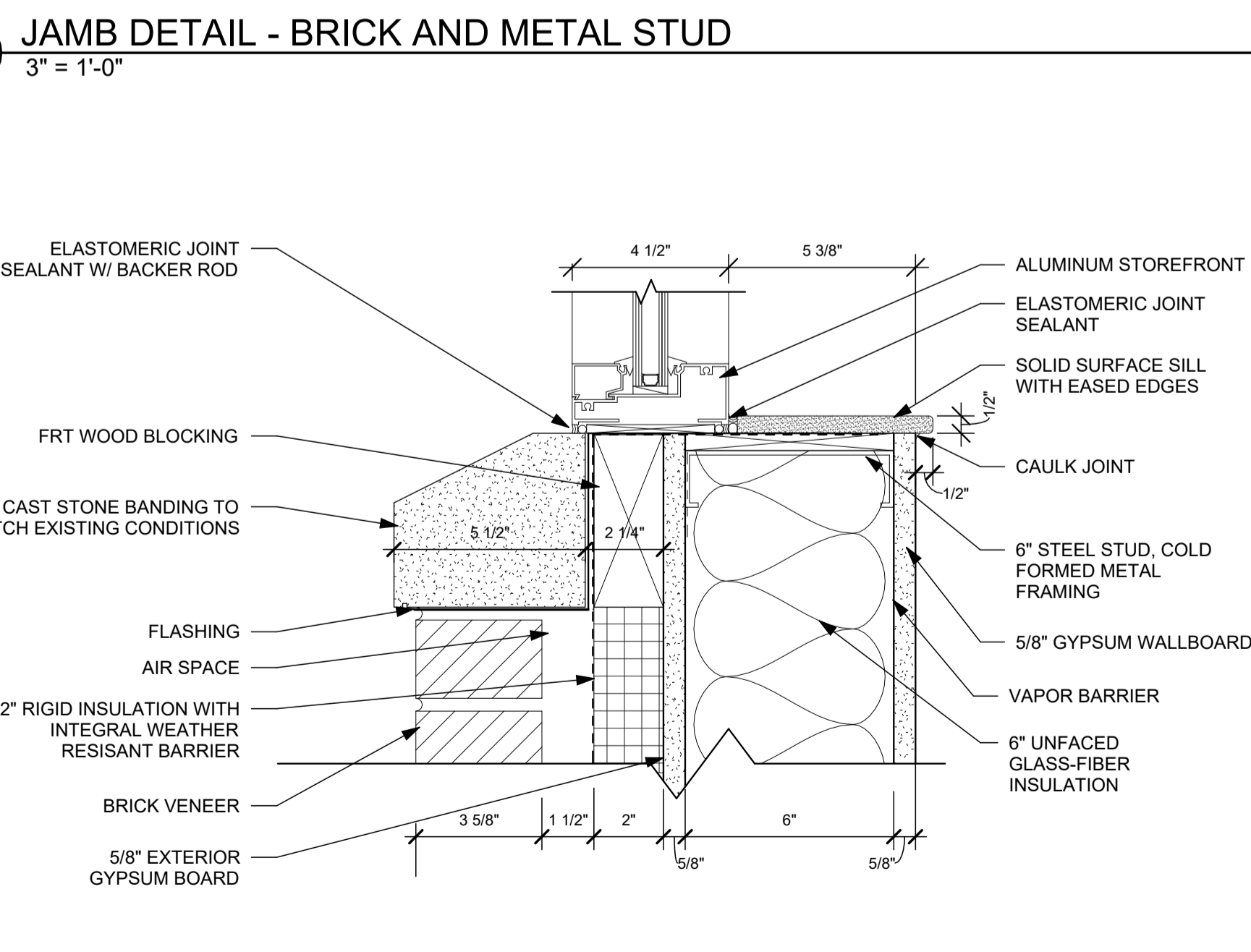
D3 JAMB DETAIL - METAL STUD
3" = 1'-0"



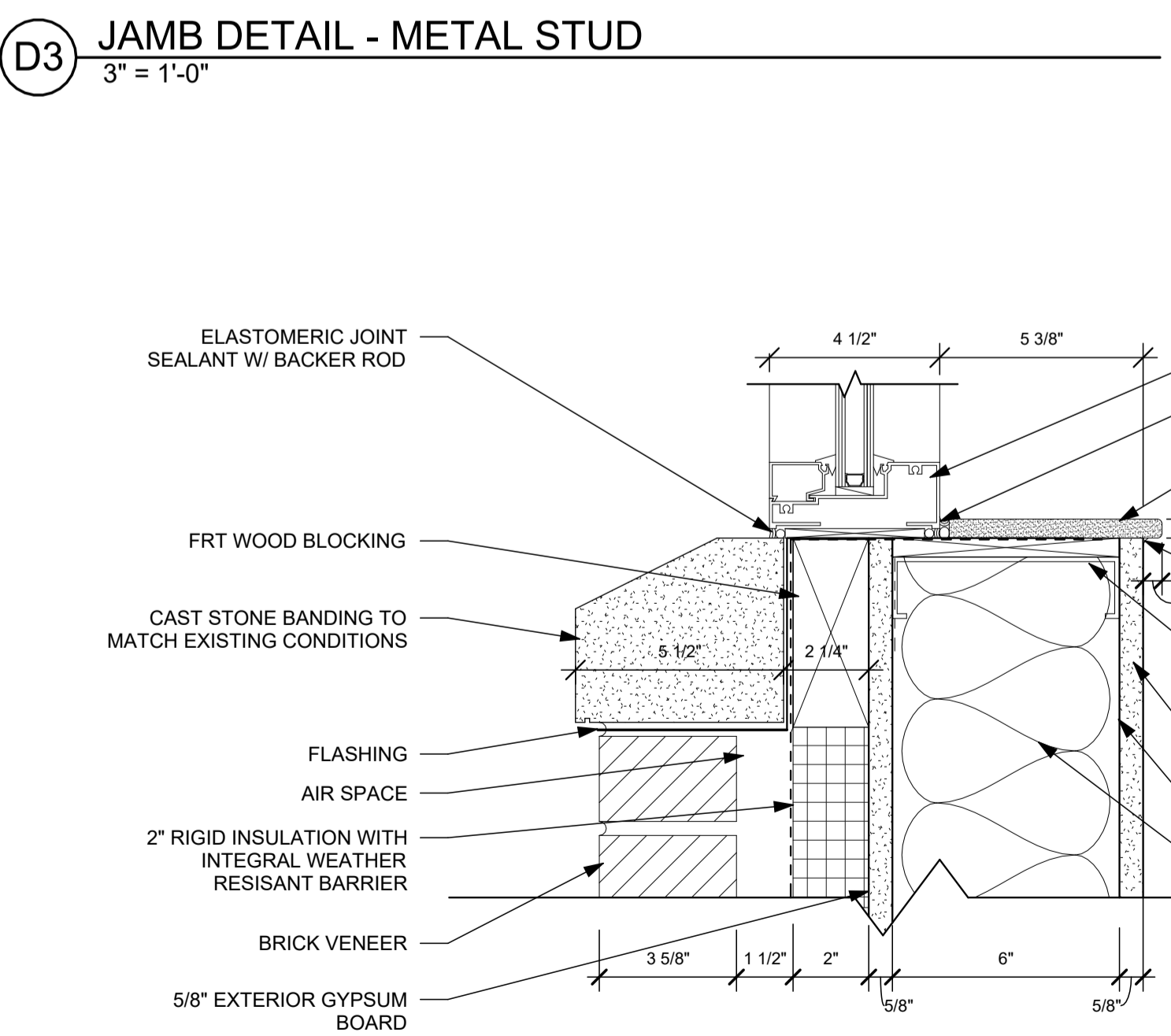
D5 SILL DETAIL - BIFOLD DOOR
3" = 1'-0"

D

E



F1 SILL DETAIL - BRICK AND METAL STUD
3" = 1'-0"



F3 SILL DETAIL - BRICK AND METAL STUD
3" = 1'-0"

F

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Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

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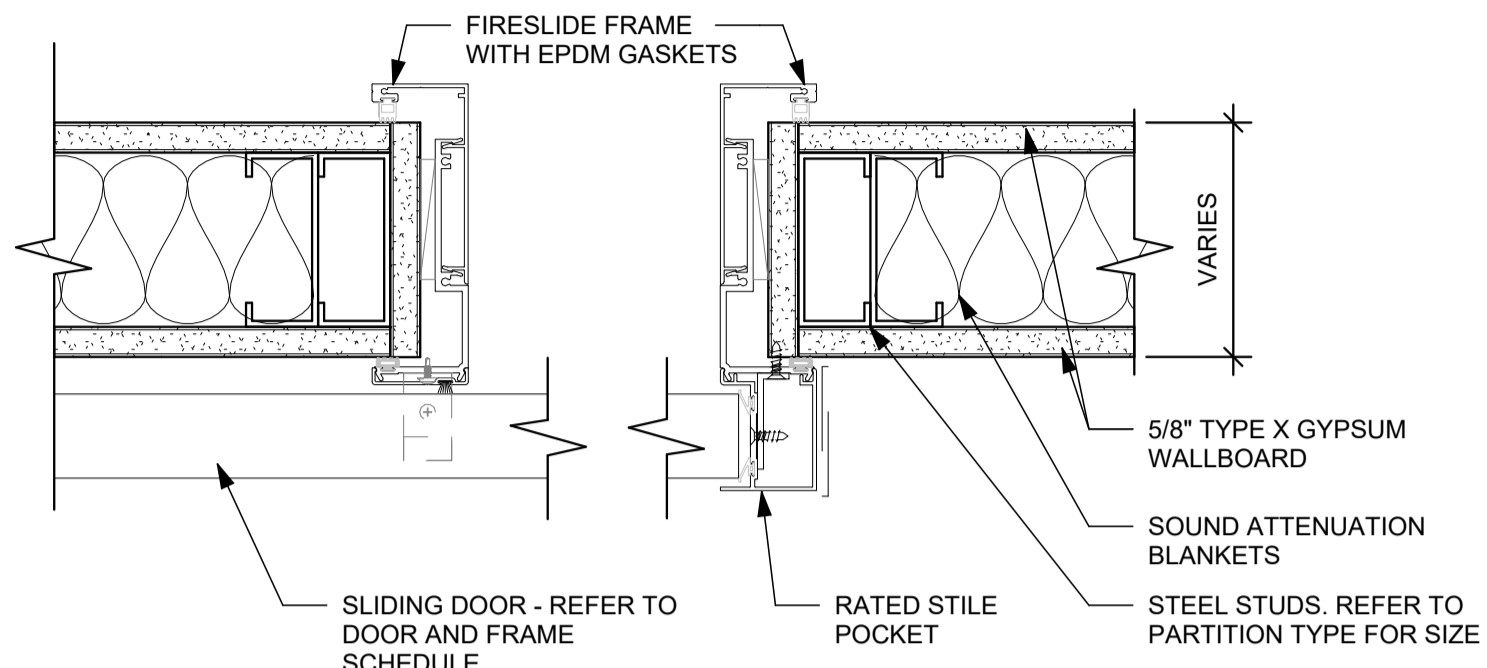
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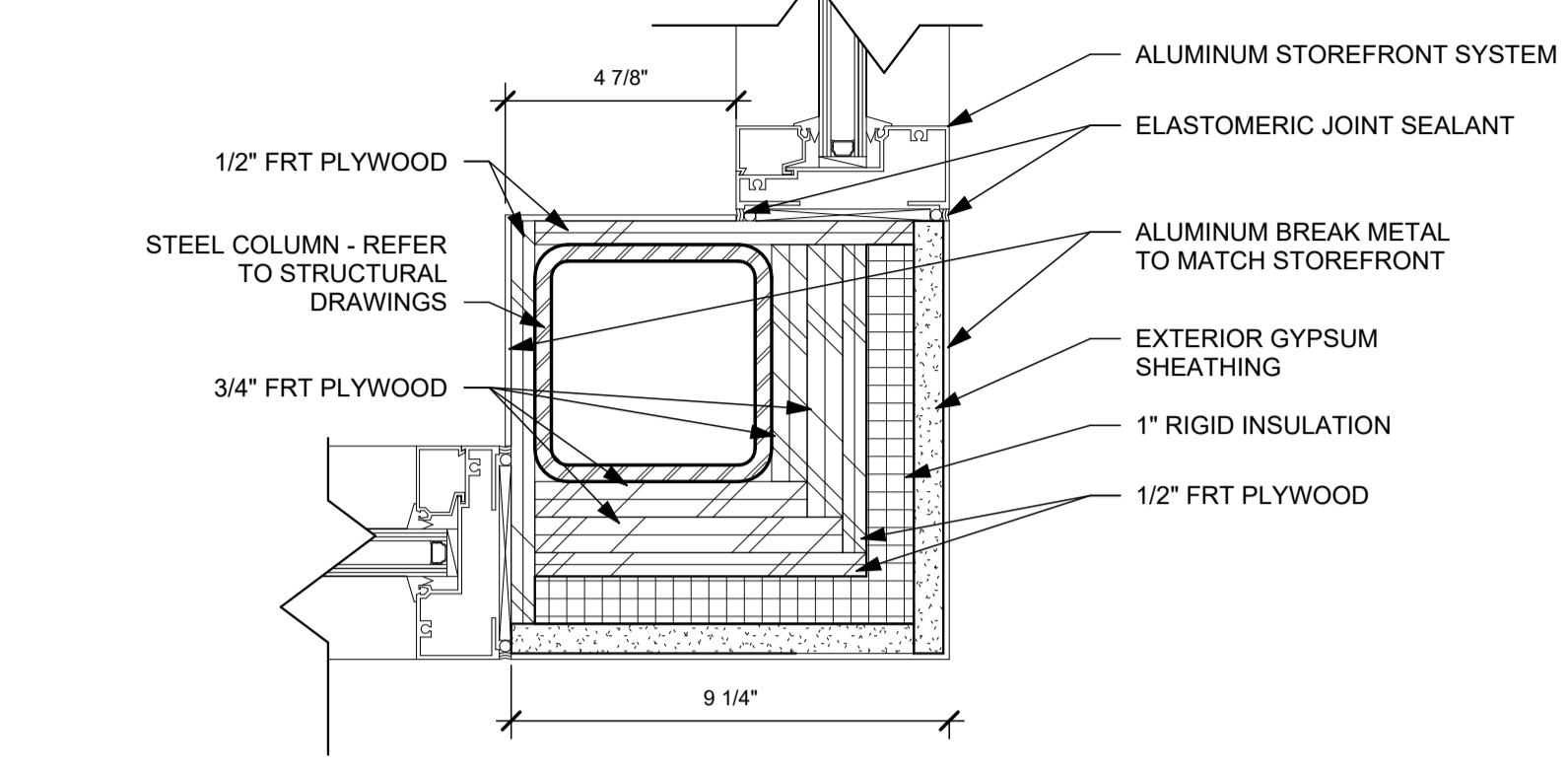
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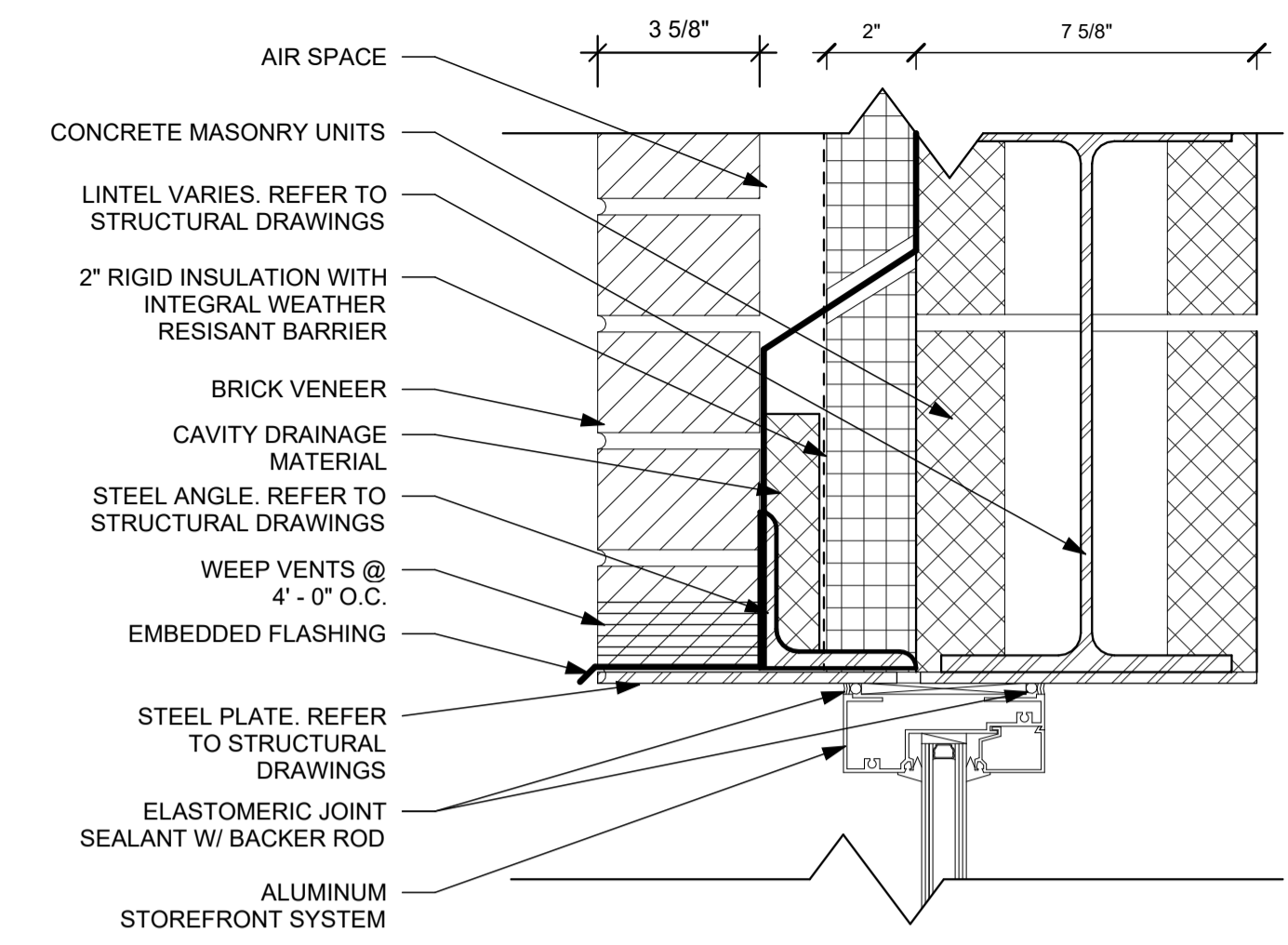
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B1 SLIDING DOOR JAMB DETAIL
3" = 1'-0"



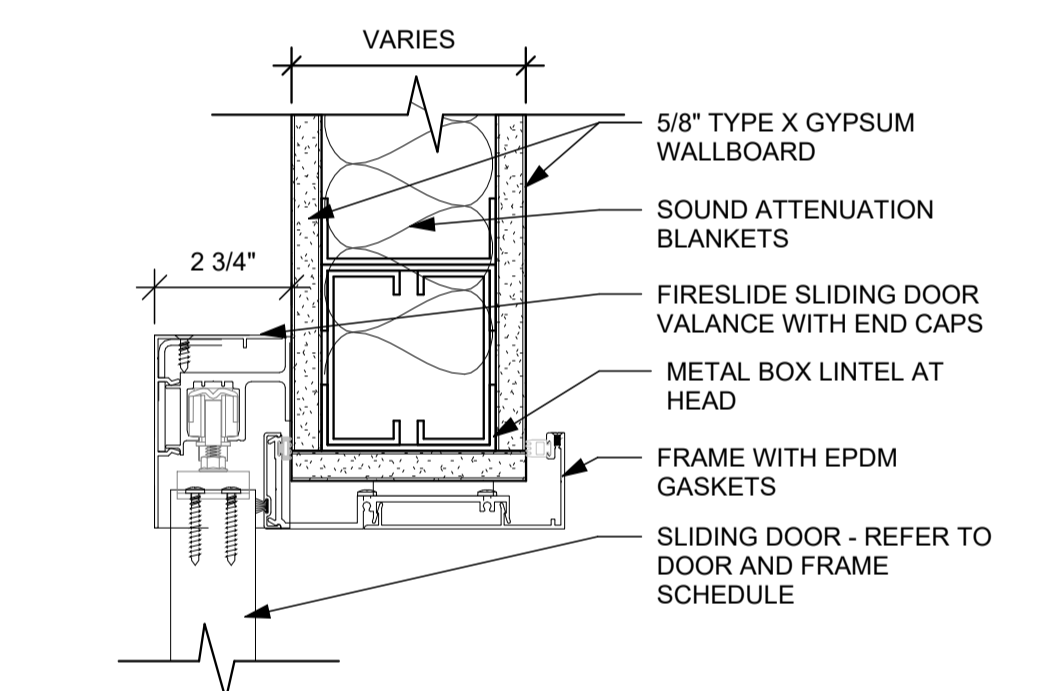
B3 JAMB/CORNER DETAIL
3" = 1'-0"



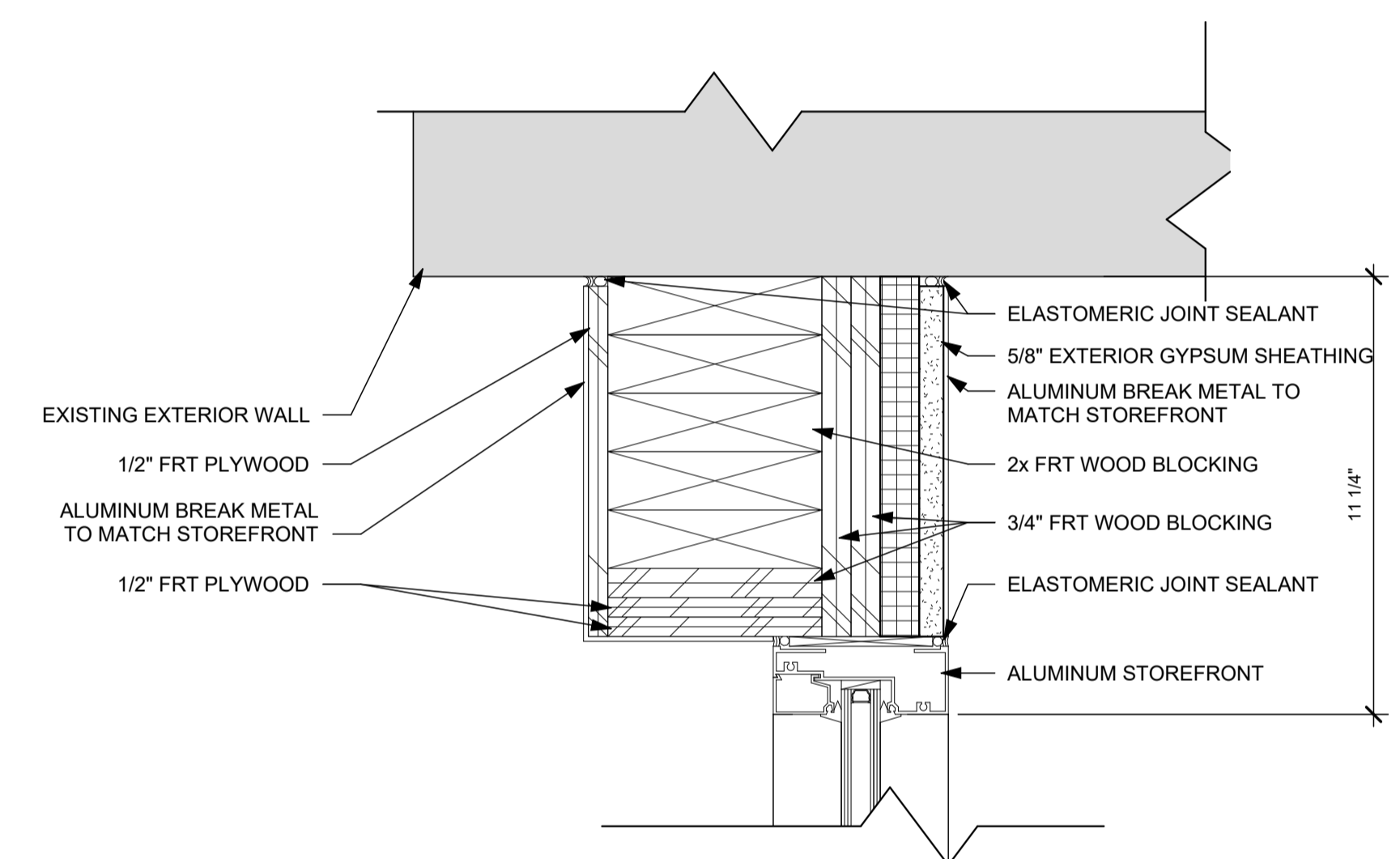
B5 HEAD DETAIL - BRICK AND METAL STUD
3" = 1'-0"

B

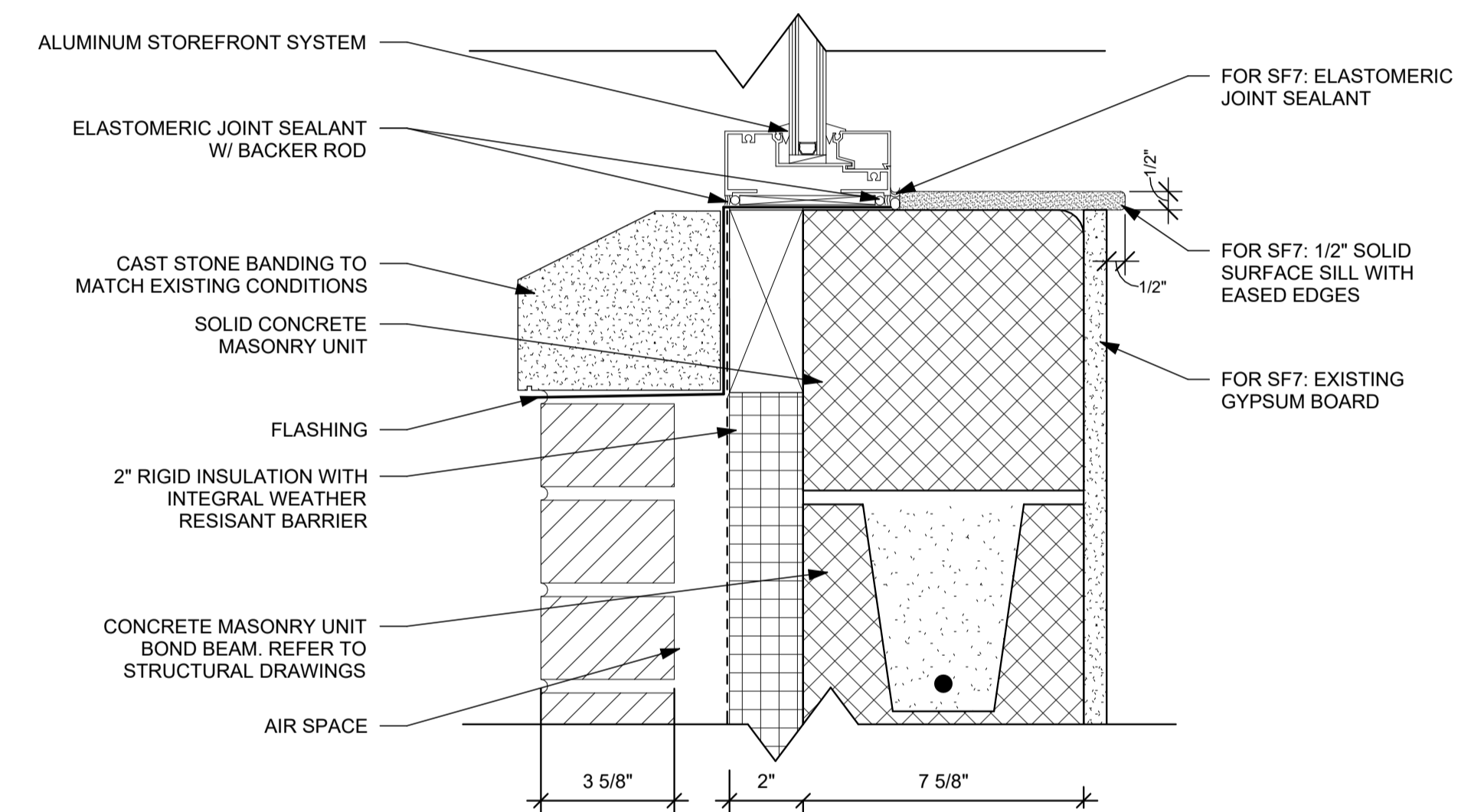
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E1 SLIDING DOOR HEAD DETAIL
3" = 1'-0"



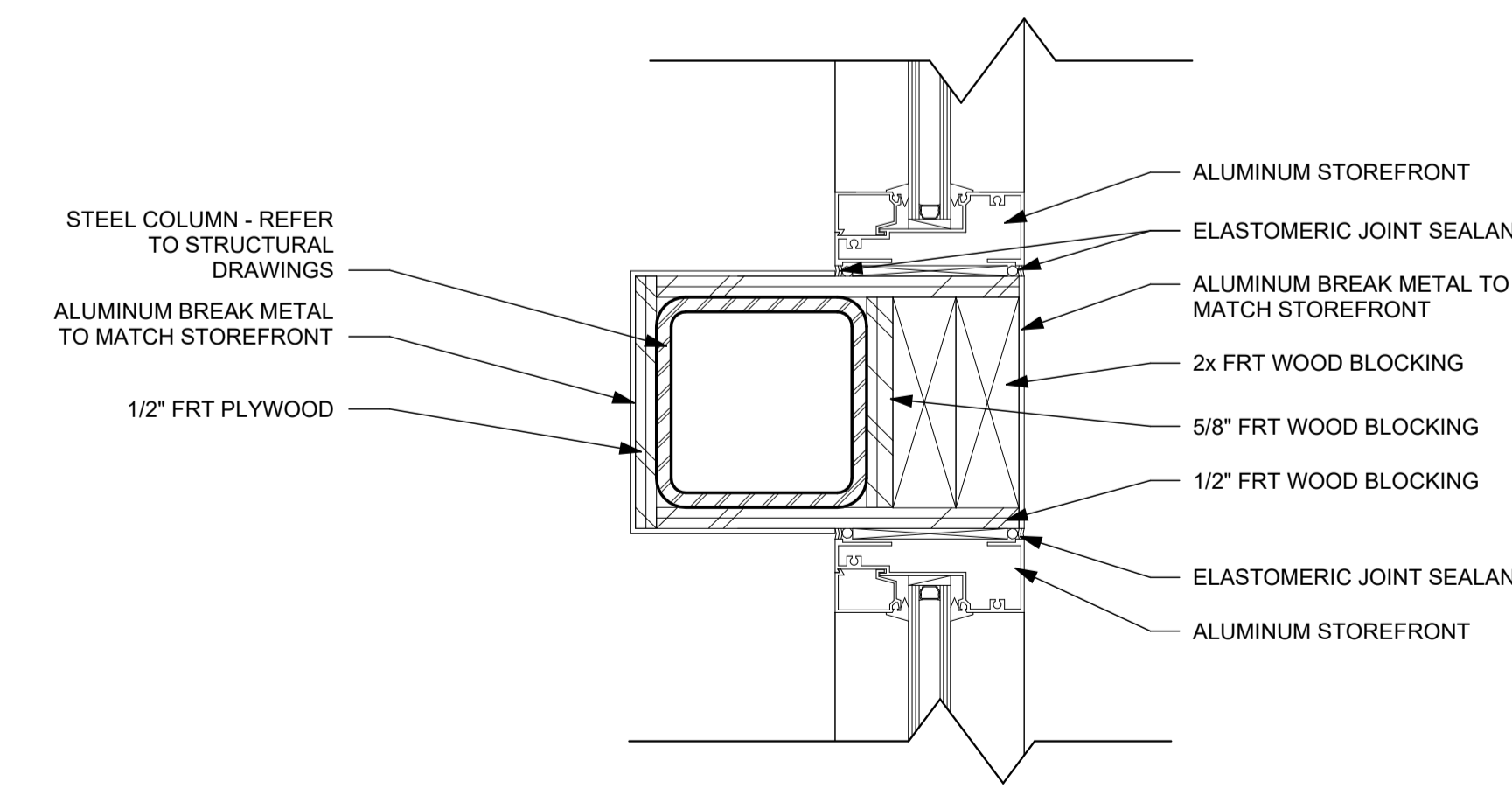
E3 JAMB DETAIL
3" = 1'-0"



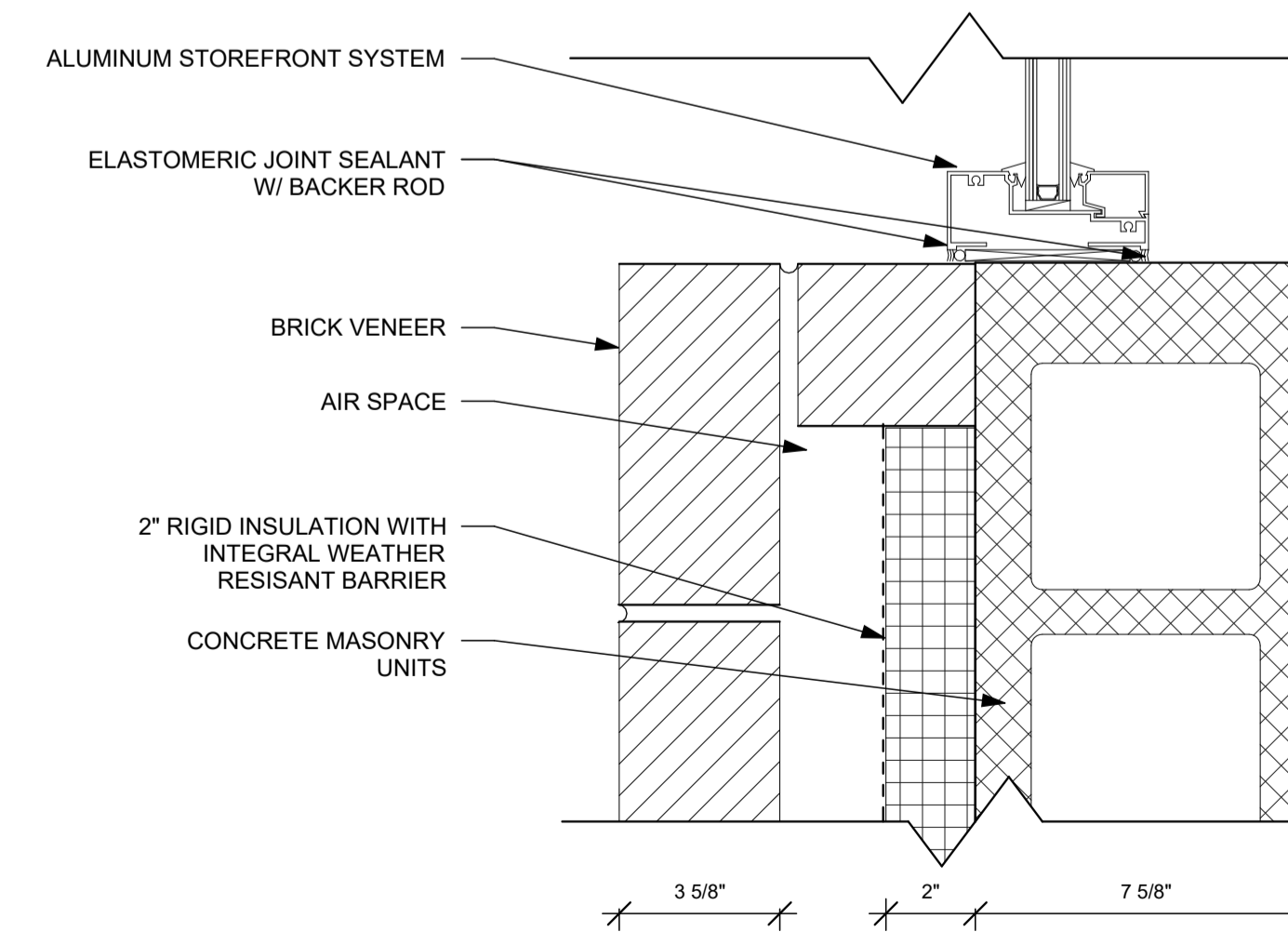
D5 SILL DETAIL - BRICK AND METAL STUD
3" = 1'-0"

D

E

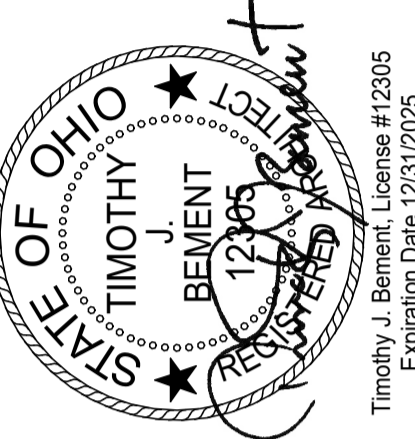


F5 JAMB DETAIL - BRICK AND CMU
3" = 1'-0"



F

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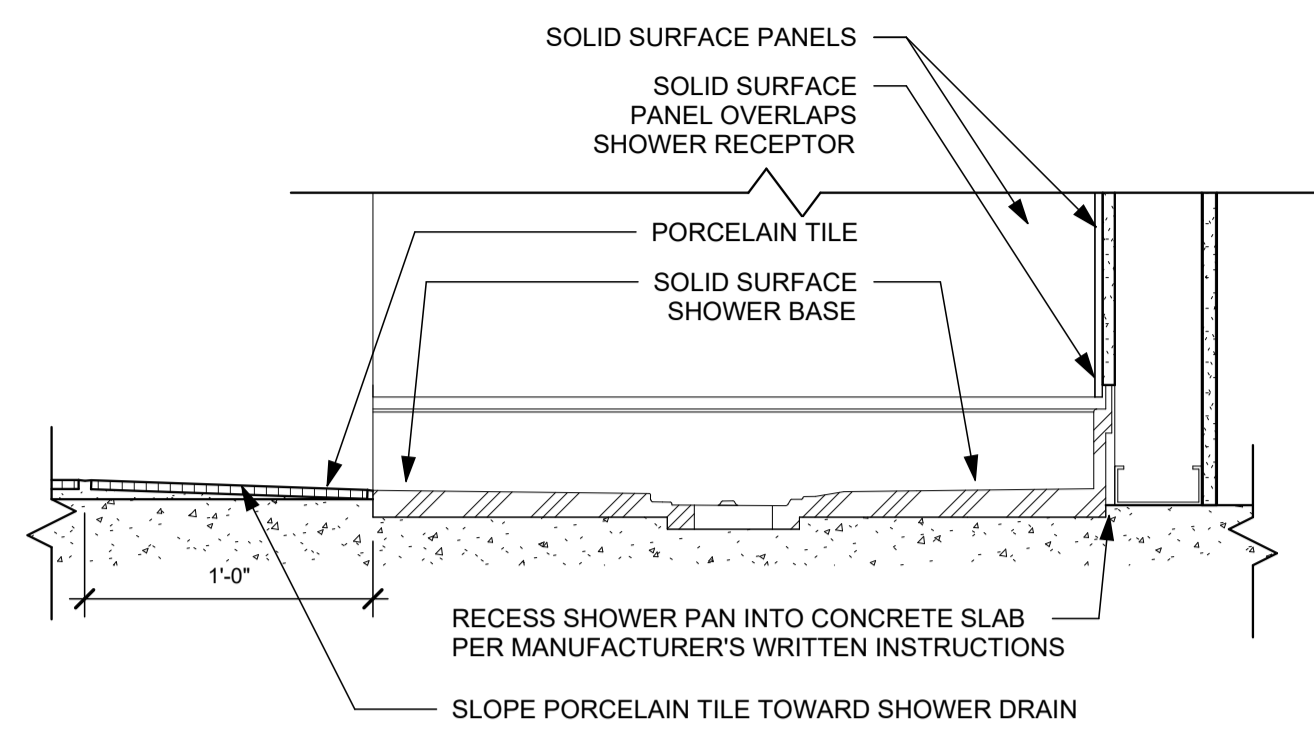
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TITLE
DOOR AND WINDOW DETAILS

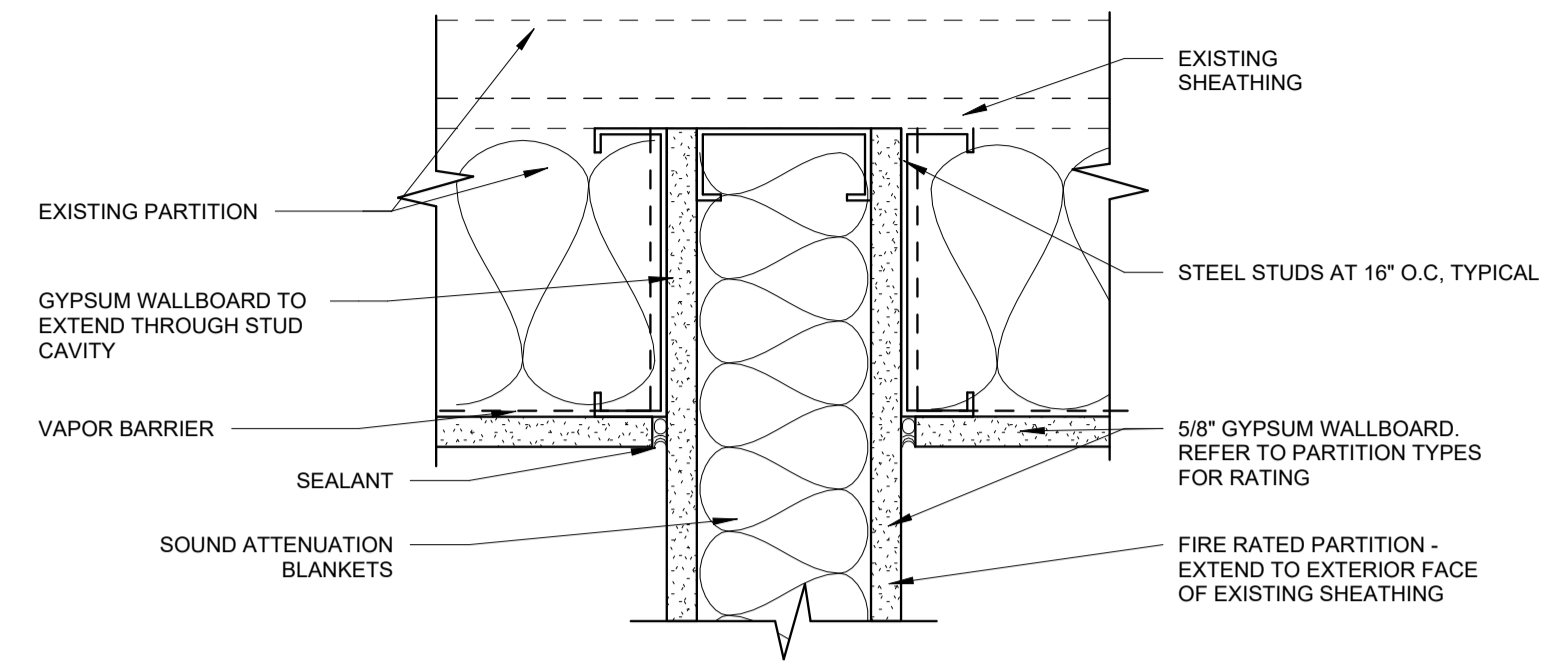
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A0.8

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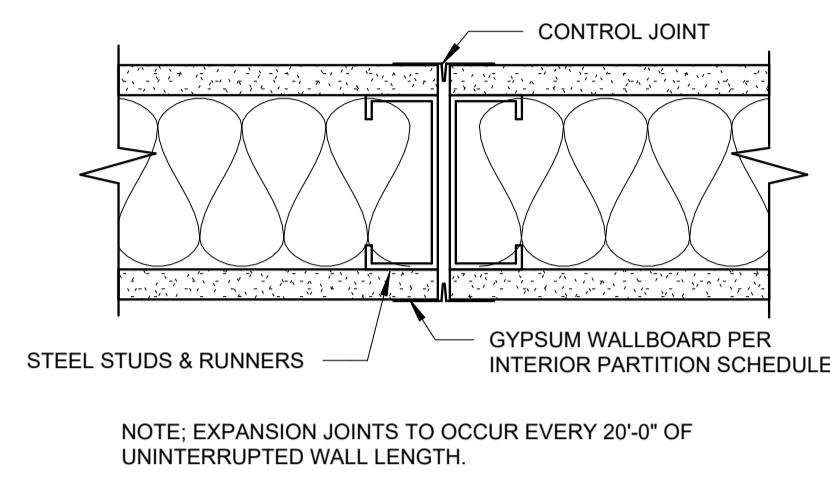
A



B1 ADA SHOWER RECEPTOR SECTION
1 1/2" = 1'-0"

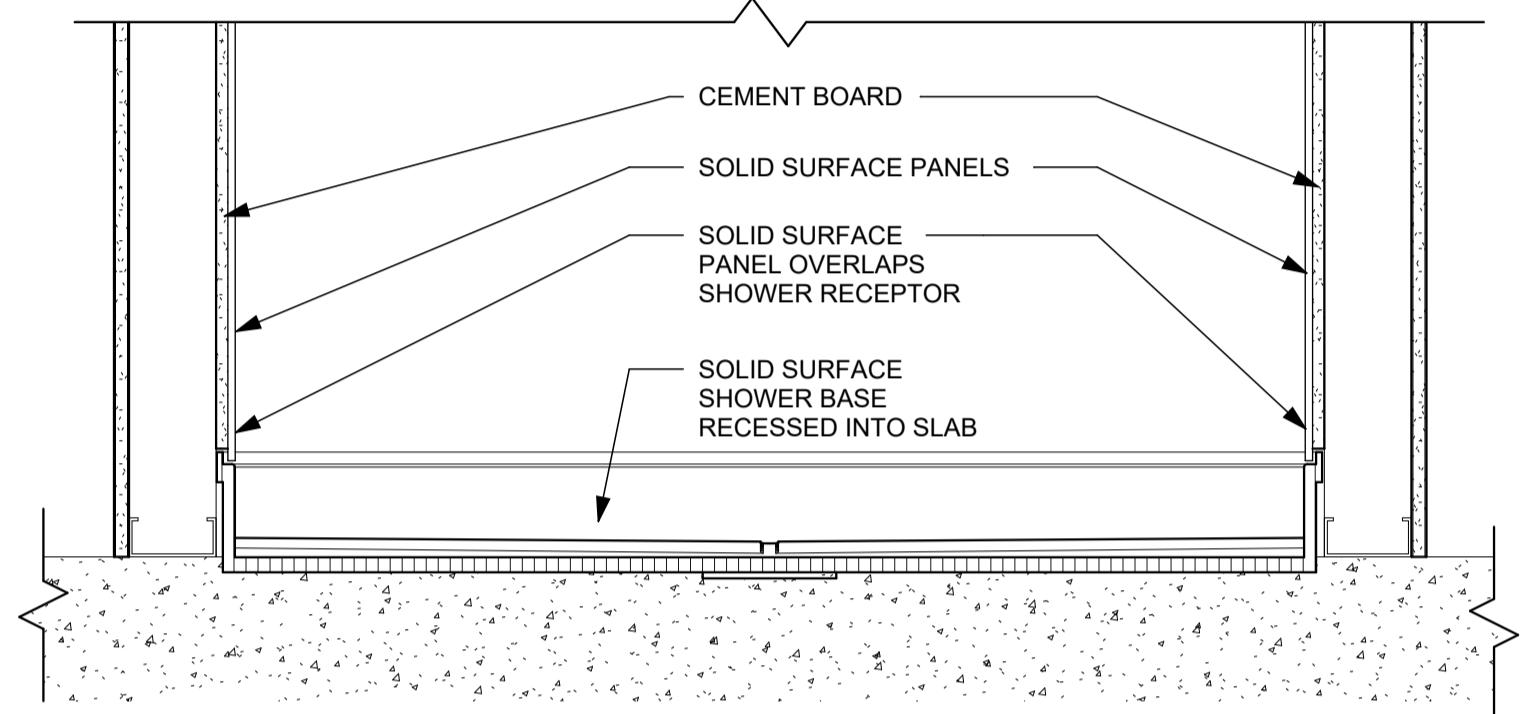


B4 TYP. INT. PARTITION INTERSECTION WITH EXT. WALL - FIRE RTD.
3" = 1'-0"

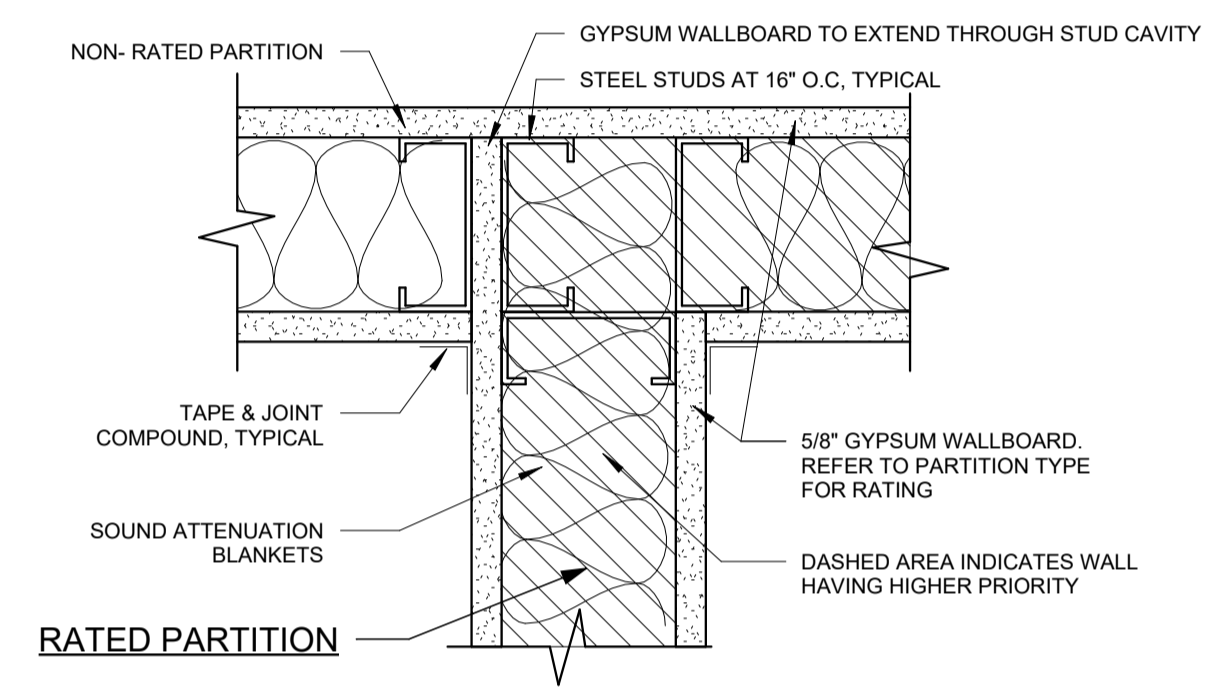


B6 TYP. GWB EXPANSION DETAIL
3" = 1'-0"

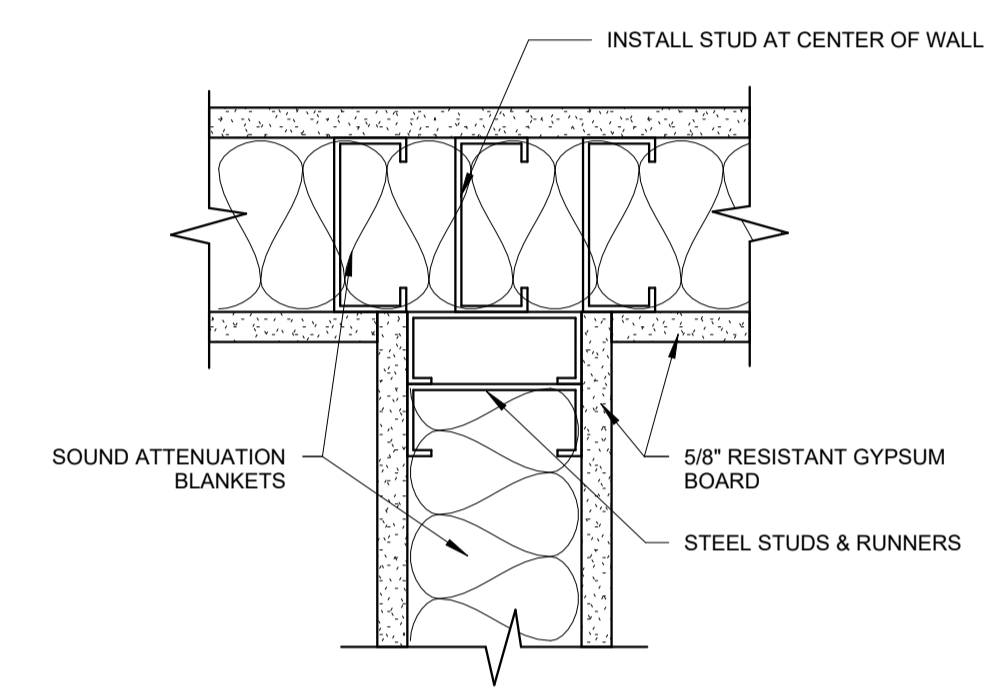
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C1 ADA SHOWER RECEPTOR DETAIL
1 1/2" = 1'-0"

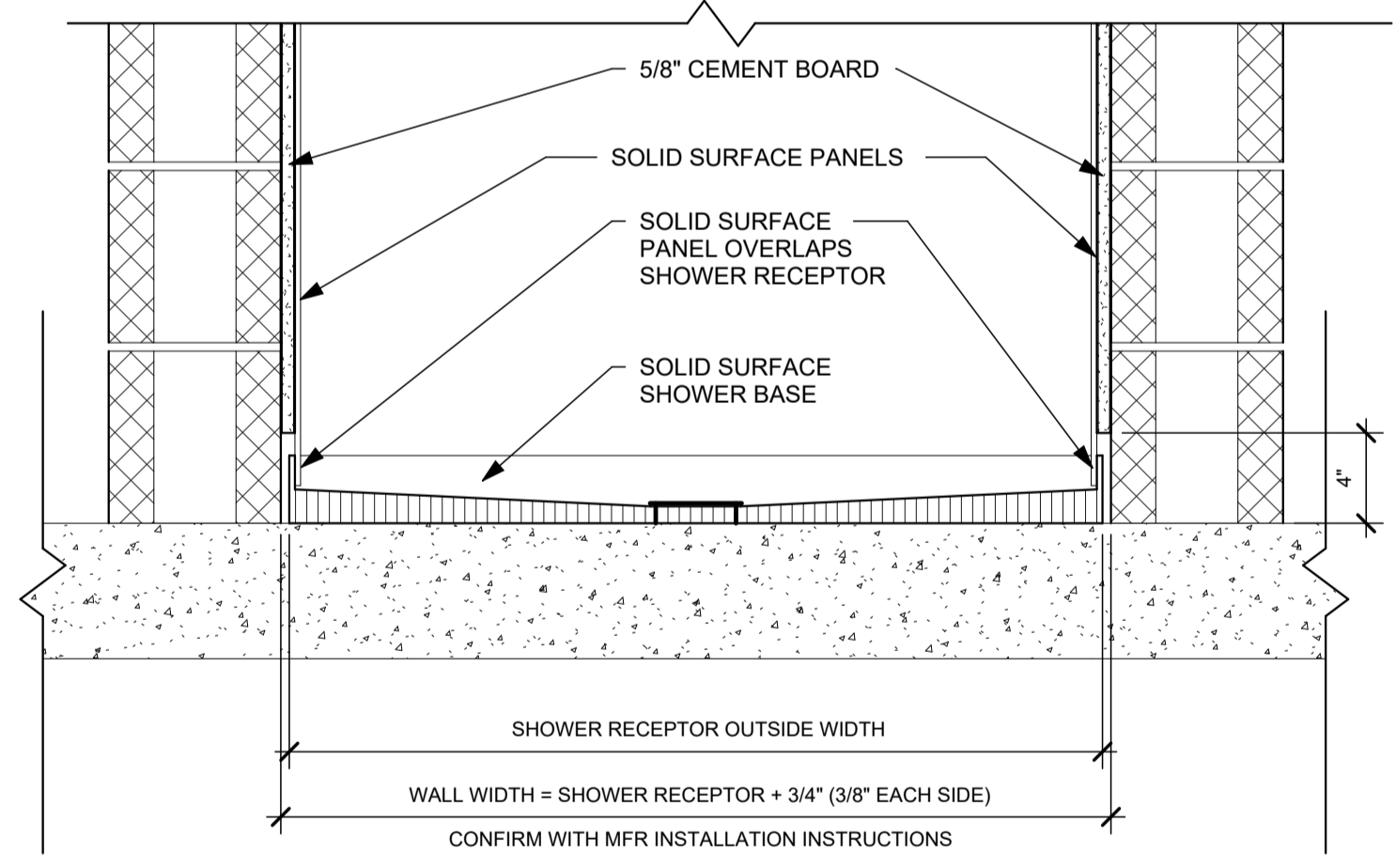


C4 TYP. INTERIOR PARTITION INTERSECTION - RTD.
3" = 1'-0"

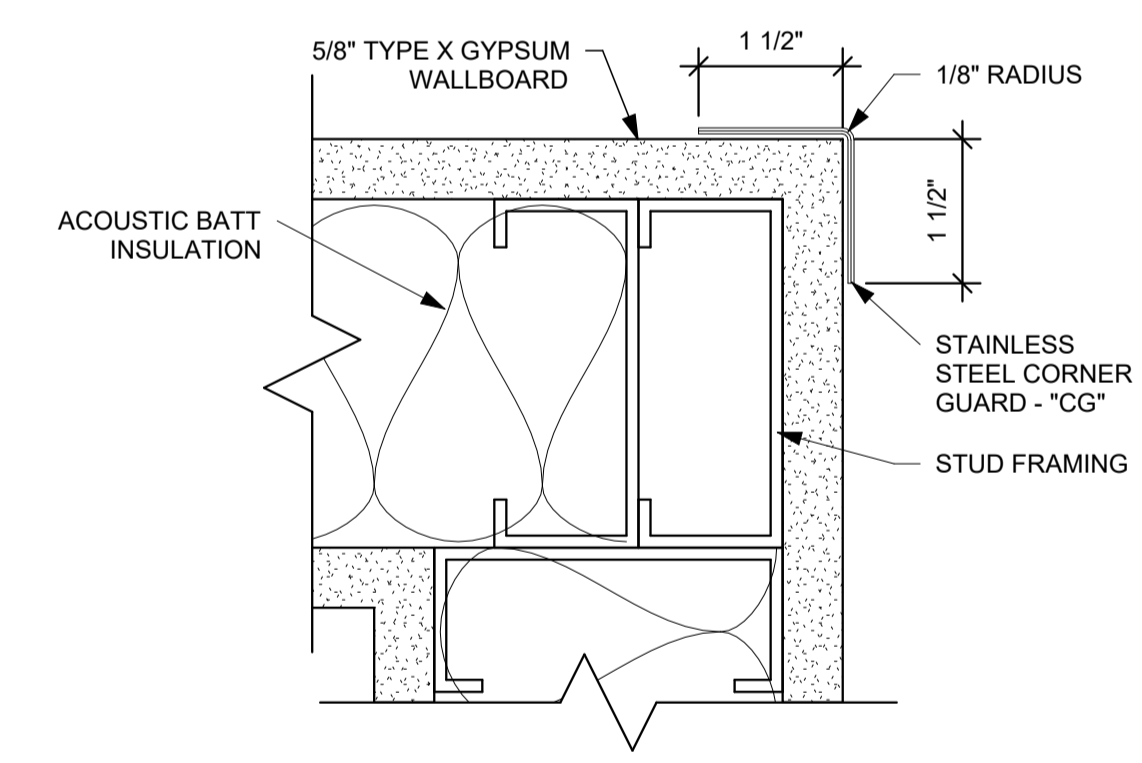


C6 TYP. GWB WALL INTERSECTION
3" = 1'-0"

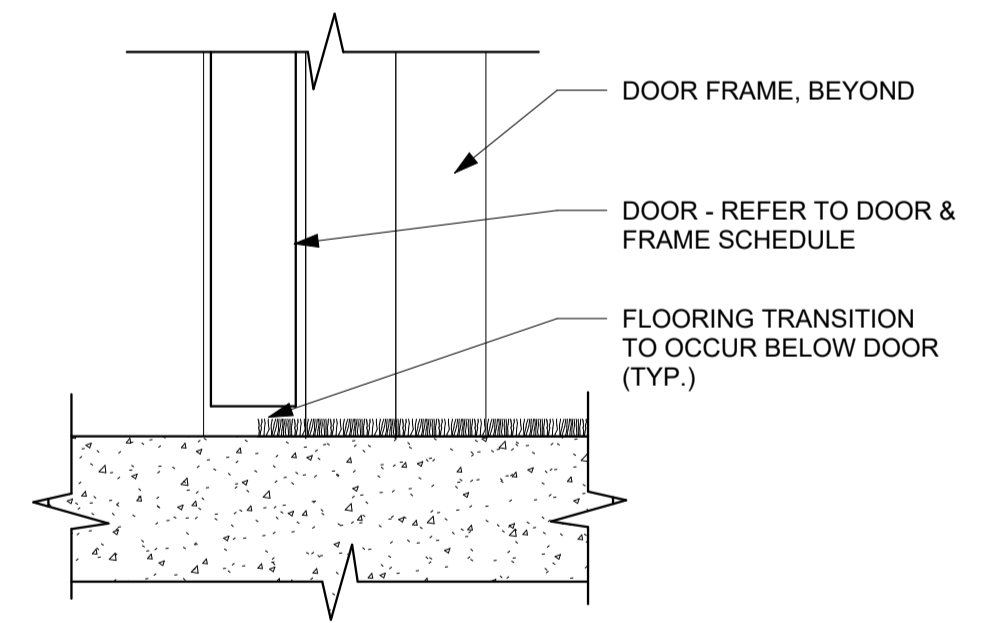
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E1 CURB STYLE SHOWER RECEPTOR DETAIL
1 1/2" = 1'-0"

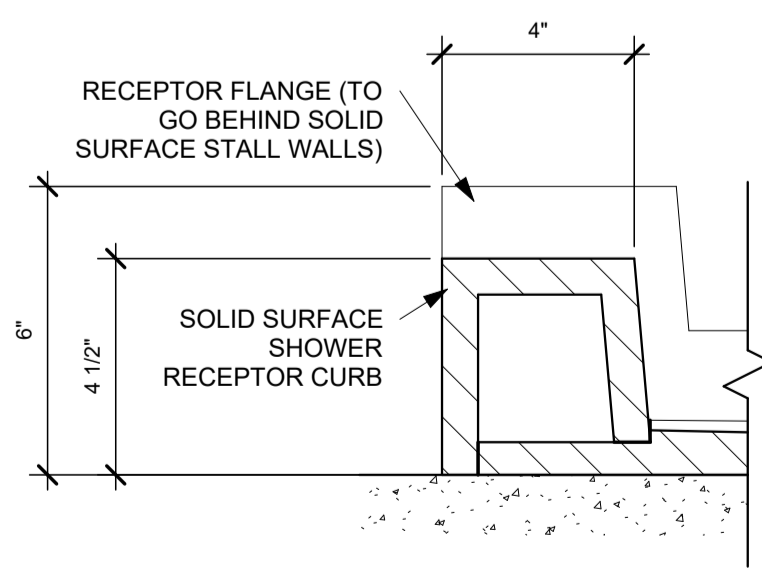


E4 CG-1 CORNER GUARD
6" = 1'-0"

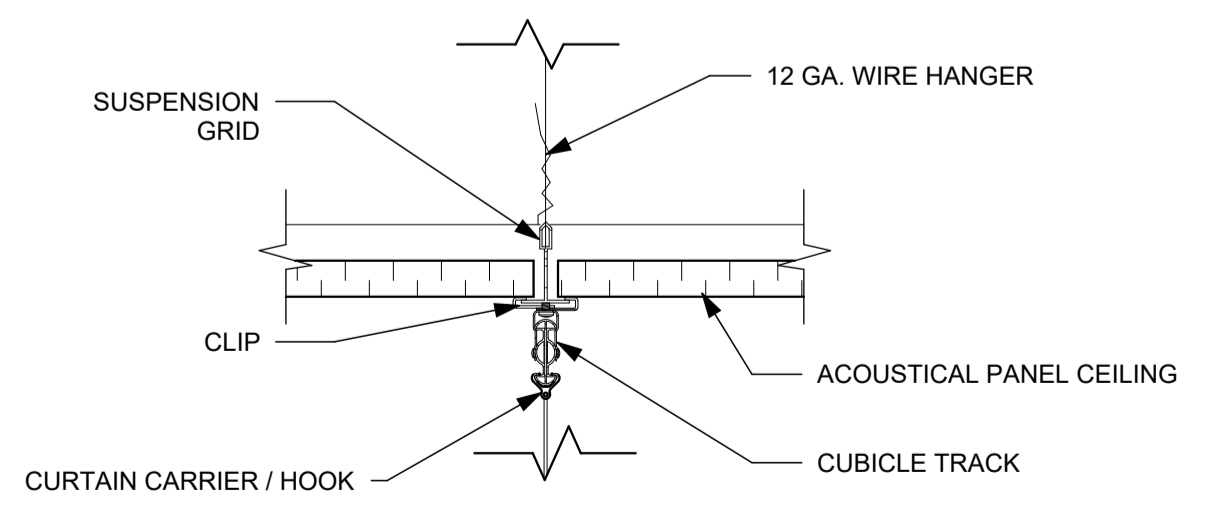


E6 SILL DETAIL
3" = 1'-0"

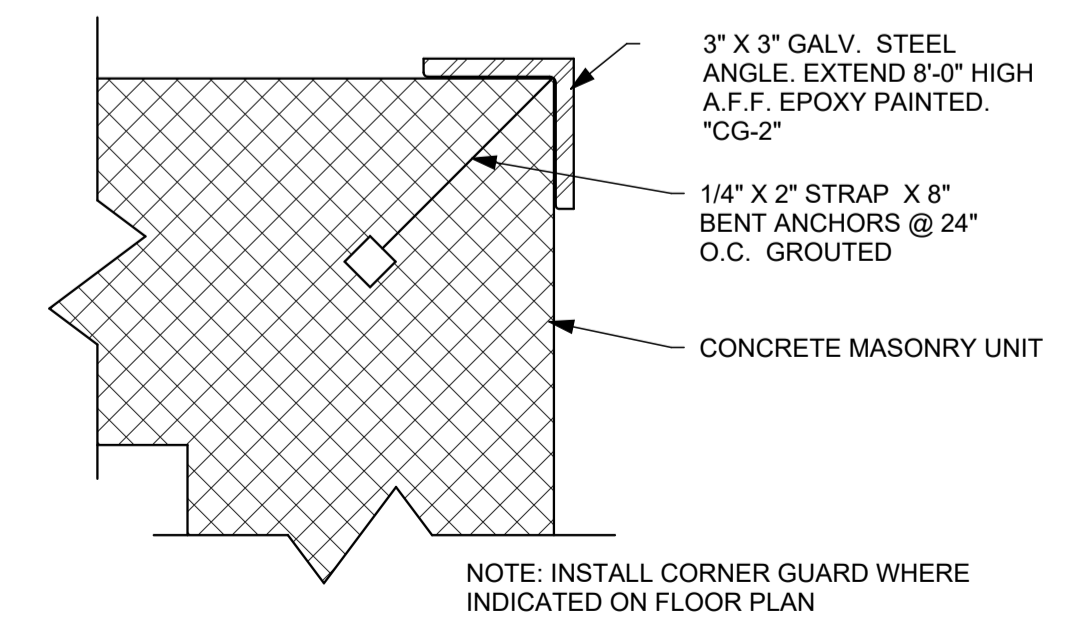
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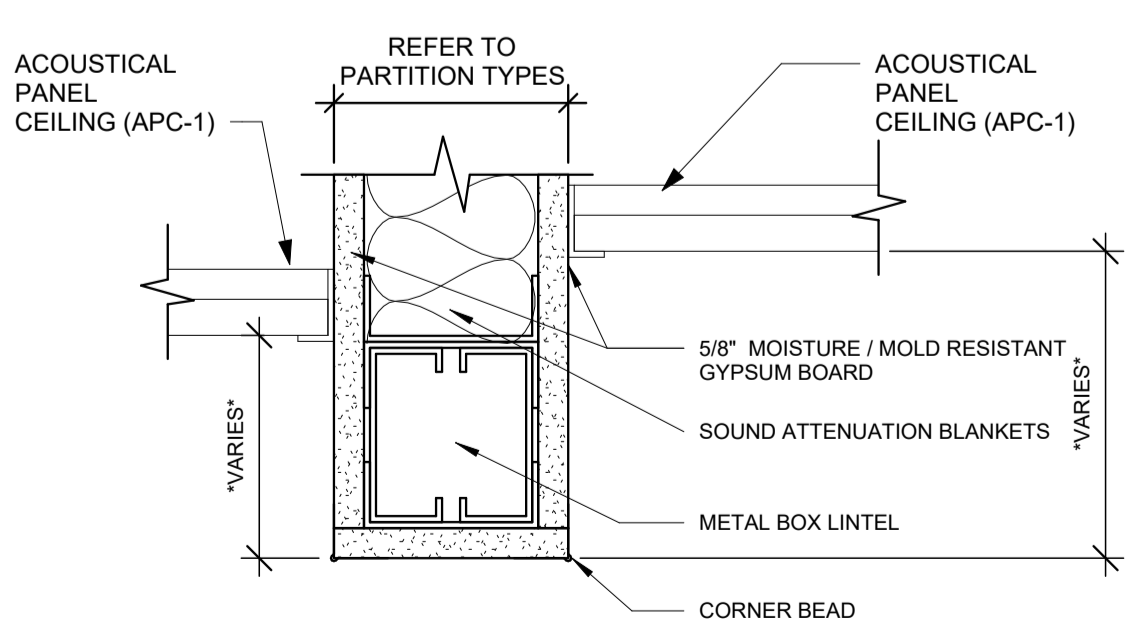
F1 CURB STYLE SHOWER CURB SECTION
3" = 1'-0"



F3 CURTAIN TRACK DETAIL
3" = 1'-0"



F5 CG-2 CORNER GUARD
3" = 1'-0"



F6 TYP. BULKHEAD DETAIL
3" = 1'-0"

F

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INTERIOR DETAILS	
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DEMO GENERAL NOTES

- A. PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- B. PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION.
- C. PRIOR TO DEMOLITION, REMOVE AND STORE ITEMS TO BE SALVAGED FOR REUSE IN CONSTRUCTION OR GIVEN TO OWNER. SALVAGE ALL DOORS AND EXTERIOR BRICK REMOVED.
- D. COORDINATE ALL DIMENSIONS AS SHOWN WITH NEW WORK LAYOUT.
- E. EXISTING WALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES SHALL BE PREPARED IN A MANNER ACCEPTABLE TO THE FINISH MANUFACTURER.
- F. REMOVE ALL EXISTING SIGNAGE IN THE AREA OF WORK.
- G. REMOVE ALL EXISTING RUBBER BASE THROUGHOUT. PREP FOR NEW BASE.

CONSTRUCTION GENERAL NOTES

- A. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL DETAILS AND NOTES.
- B. DOORS ARE 4" FROM FINISHED FACE OF WALL TO HINGE SIDE OF DOOR OPENING U.N.O.
- C. WALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE U.N.O.
- D. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.
- E. ALIGN FINISH SURFACES WHERE NEW WALL CONSTRUCTION MEETS OR IS ADJACENT TO EXISTING WALL CONSTRUCTION.
- F. INSTALL FRT SOLID WOOD BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, HANDRAILS, PLUMBING, AND TOILET FIXTURES.
- G. REFER TO ELEVATIONS FOR CASEWORK DETAILS.
- H. ALL ROOMS TO RECEIVE NEW WALL PAINT, DOOR FRAME PAINT, DOOR HARDWARE, AND COVE BASE U.N.O.

- I. REPAIR, REFRAME, REINFORCE EXISTING WALLS WHERE FINISHES OR EXISTING WALLS WERE REMOVED OR DISTURBED.
 - J. REPAIR ALL EXISTING WALLS WHERE WALL MOUNTED ITEMS HAVE BEEN REMOVED. PREP FOR NEW FINISHES.
 - K. FURNITURE SHOWN FOR REFERENCE ONLY.
 - L. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.
 - M. ALL PARTITIONS TO BE CONSTRUCTED TO STRUCTRE ABOVE U.N.O.
 - N. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.
 - O. ALL NEW EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.
 - P. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.
- : 1/2 HOUR RATED WALL
 ----- : 2 HOUR RATED WALL

DEMOLITION NOTES

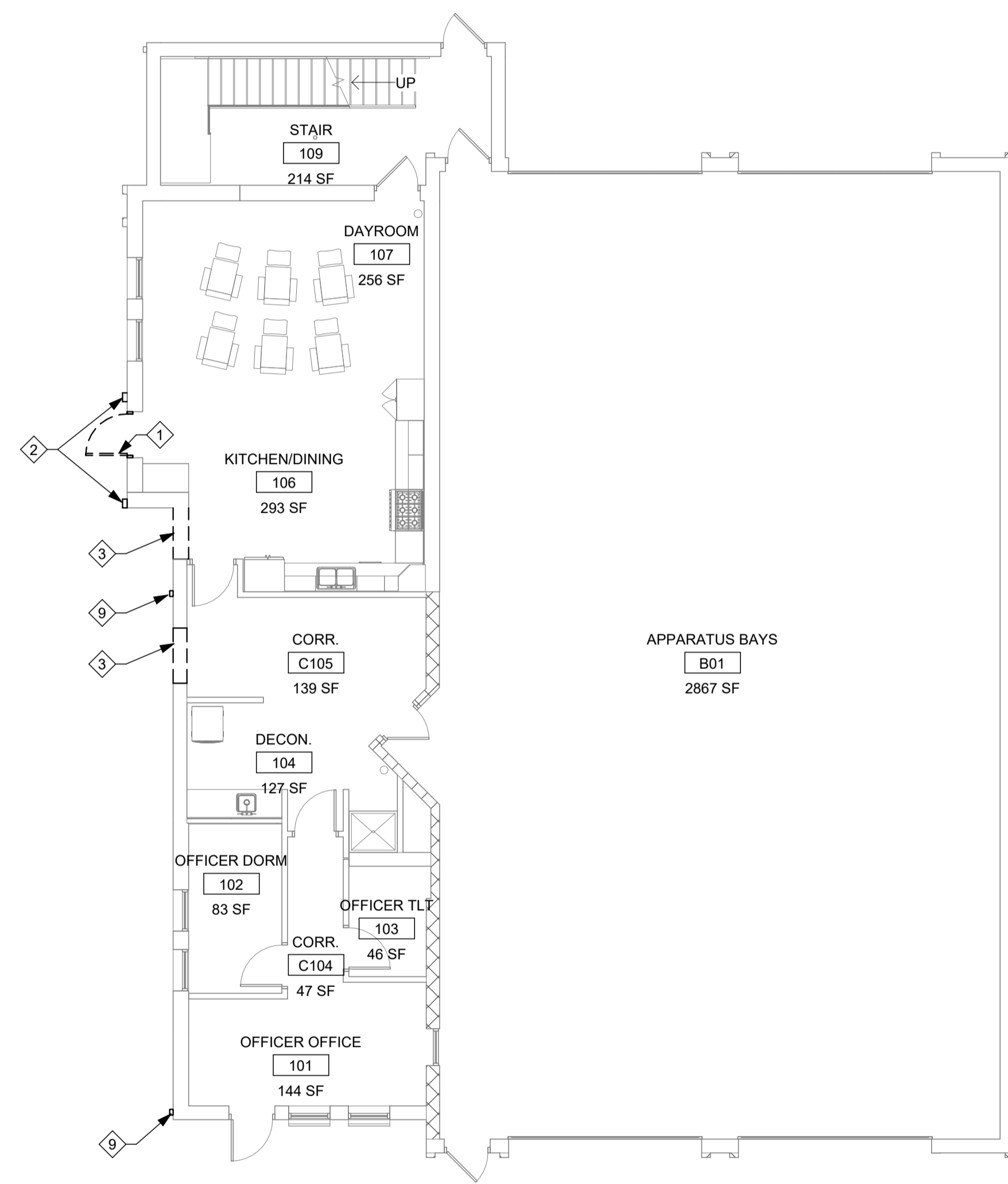
- ⑩ INDICATES DEMOLITION NOTE.
- 1 REMOVE EXISTING DOOR AND FRAME.
- 2 REMOVE FULL HEIGHT OF EXISTING BRICK BUMP-OUTS
- 3 REMOVE PORTION OF EXTERIOR WALL.
- 4 REMOVE INTERIOR WALL.
- 5 REMOVE PORTION OF WALL.
- 6 REMOVE CASEWORK AND PLUMBING FIXTURES.
- 7 REMOVE CASEWORK.
- 8 REMOVE WINDOW.
- 9 REMOVE EXISTING DOWNSPOUT.
- 10 REMOVE EXISTING FLOORING AND BASE IN ROOM. PREP SUBFLOOR TO RECIEVE NEW FLOOR.
- 11 REMOVE EXISTING TOILET, PLUMBING FIXTURES, CASEWORK, AND WALL TILE.

PHASING NOTES

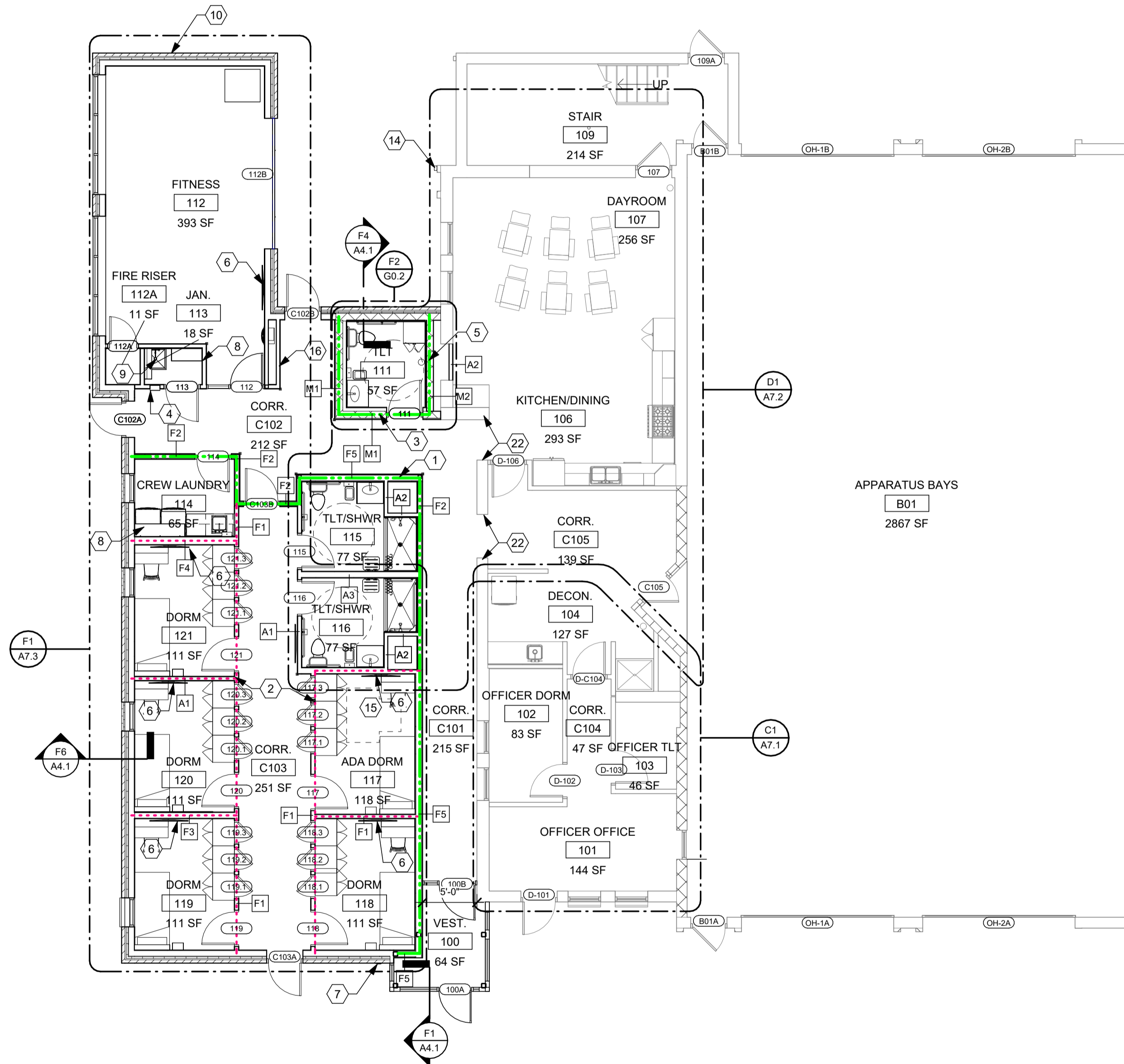
- A. EXISTING STATION MUST REMAIN OPERATIONAL DURING PHASE 1 ADDITION. DURING ALL PHASES, COORDINATE TIMES AND DATES WITH OWNER THAT OPERATION WILL BE INTERRUPTED. REFER TO MEP DRAWINGS FOR FURTHER PHASING DETAILS.

CONSTRUCTION NOTES

- ⑩ INDICATES CONSTRUCTION NOTE.
NOT ALL NOTES APPLY TO THIS SHEET.
- 1 2 HOUR RATED PARTITIONS AROUND RESIDENTIAL USE GROUP AS INDICATED. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 2 1/2 HOUR RATED PARTITIONS AROUND DORM ROOMS AS INDICATED. PROVIDE 1 HR. RATED CEILING ASSEMBLY (C1) PER UL DESIGN NO. 263. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 3 2 HOUR RATED PARTITIONS AROUND TORNADO SHELTER AS INDICATED. PROVIDE 2HR. RATED CEILING ASSEMBLY (C2) PER UL DESIGN NO. D219. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 4 SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH CONTRACTOR FURNISHED FIRE EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS NONSHEET A0.1 FOR DETAILS.
- 5 WALL HUNG FIRE EXTINGUISHER. CONTRACTOR FURNISHED. CONTRACTOR INSTALLED. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS NONSHEET A0.1 FOR DETAILS.
- 6 INSTALL FRT BLOCKING FOR TV WALL MOUNT. REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS.
- 7 KNOX BOX RAPID ENTRY KEY STORAGE SYSTEM. RECESSED MOUNT @ 4' - 0" A.F.F. CFCI.
- 8 ADJUSTABLE SHELVES. REFER TO CASEWORK DETAILS.
- 9 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.
- 10 PARAPET LADDER. REFER TO A1.6 ROOF PLAN FOR DETAILS.
- 11 NEW STEEL CASEWORK. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
- 12 EXISTING WALL HUNG FIRE EXTINGUISHER.
- 13 TRAINING WINDOW. REFER TO A0.10 FOR DETAILS.
- 14 NEW DOWNSPOUT LOCATION. REFER TO SHEET A5.2 FOR DOWNSPOUT ADAPTOR DETAILS.
- 15 T-SHAPED TURNING SPACE PER FIGURE 304.3 OF THE ICC A117.1-2017.
- 16 ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
- 17 PREP AND INSTALL NEW SHOWER SURROUND, PAN, AND FIXTURES. REFER TO PLUMBING DRAWINGS.
- 18 INFILL REMOVED WALL TO MATCH EXISTING. MAINTAIN MINIMUM 1/2 HR FIRE RATING.
- 19 INFILL REMOVED WALL TO MATCH EXISTING. USE SALVAGED BRICK TO INFILL REMAINDER OF OPENING.
- 20 MAINTAIN 1 HR FIRE RATING ALONG THIS WALL WITH ALL MODIFICATIONS AND PENETRATIONS.
- 21 NEW OPERABLE WINDOW FOR TRAINING ON STAIR LANDING. REFER TO EXTERIOR ELEVATIONS FOR INSTALLATION HEIGHT.
- 22 PROVIDE FINISHED OPENING FROM REMOVAL OF WALL.
- 23 NEW DOWNSPOUT LOCATION TO DRAIN ONTO FLAT ROOF.
- 24 INSTALL SALVAGED DOOR AND FRAME. PROVIDE AND INSTALL NEW DOOR HARDWARE.
- 25 NEW INTERIOR WALL.
- 26 PROVIDE AND INSTALL NEW DOOR HARDWARE ON EXISTING DOOR.
- 28 FIELD VERIFY CONDITION. INFILL CAVITY WITH METAL STUD AND MOISTURE RESISTANT GYP. BD.



E1 FIRST FLOOR DEMO PLAN - PHASE 1
1/8" = 1'-0"



E3 FIRST FLOOR REFERENCE PLAN - PHASE 1
1/8" = 1'-0"

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TITLE FIRST FLOOR DEMO AND REFERENCE PLAN - PHASE 1	
SHEET NO. A1.1	

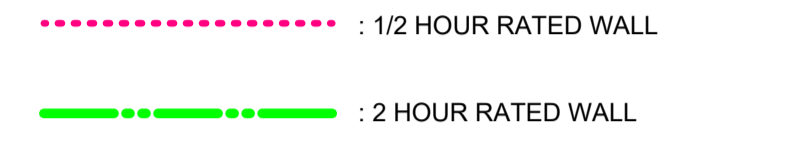
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CONSTRUCTION GENERAL NOTES

- A. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL DETAILS AND NOTES.
- B. DOORS ARE 4" FROM FINISHED FACE OF WALL TO HINGE SIDE OF DOOR OPENING U.N.O.
- C. WALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE U.N.O.
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- P. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.



DEMOLITION NOTES

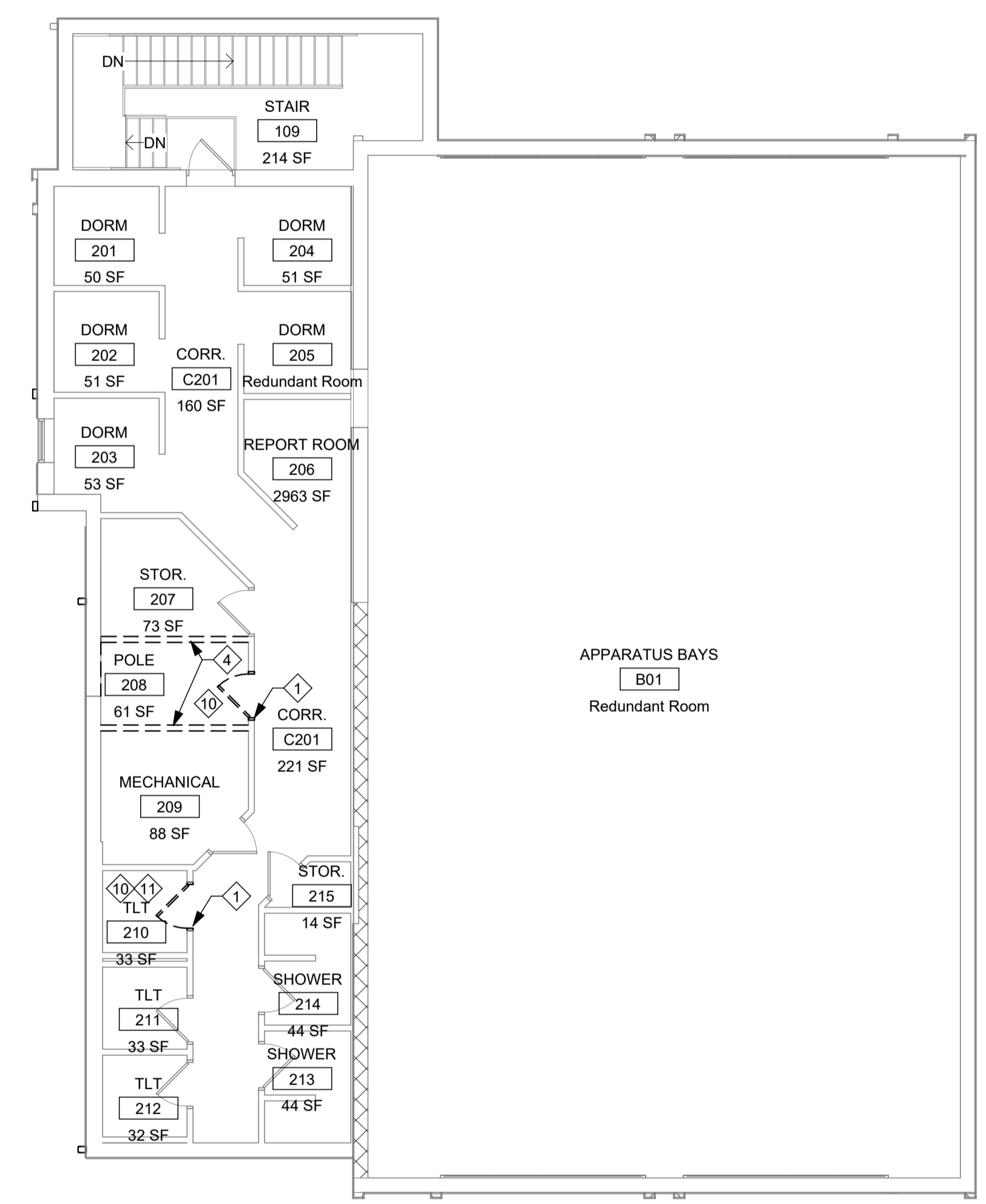
- ⑩ INDICATES DEMOLITION NOTE.
- 1 REMOVE EXISTING DOOR AND FRAME.
- 2 REMOVE FULL HEIGHT OF EXISTING BRICK BUMP-OUTS
- 3 REMOVE PORTION OF EXTERIOR WALL.
- 4 REMOVE INTERIOR WALL.
- 5 REMOVE PORTION OF WALL.
- 6 REMOVE CASEWORK AND PLUMBING FIXTURES.
- 7 REMOVE CASEWORK.
- 8 REMOVE WINDOW.
- 9 REMOVE EXISTING DOWNSPOUT.
- 10 REMOVE EXISTING FLOORING AND BASE IN ROOM. PREP SUBFLOOR TO RECIEVE NEW FLOOR.
- 11 REMOVE EXISTING TOILET, PLUMBING FIXTURES, CASEWORK, AND WALL TILE.

PHASING NOTES

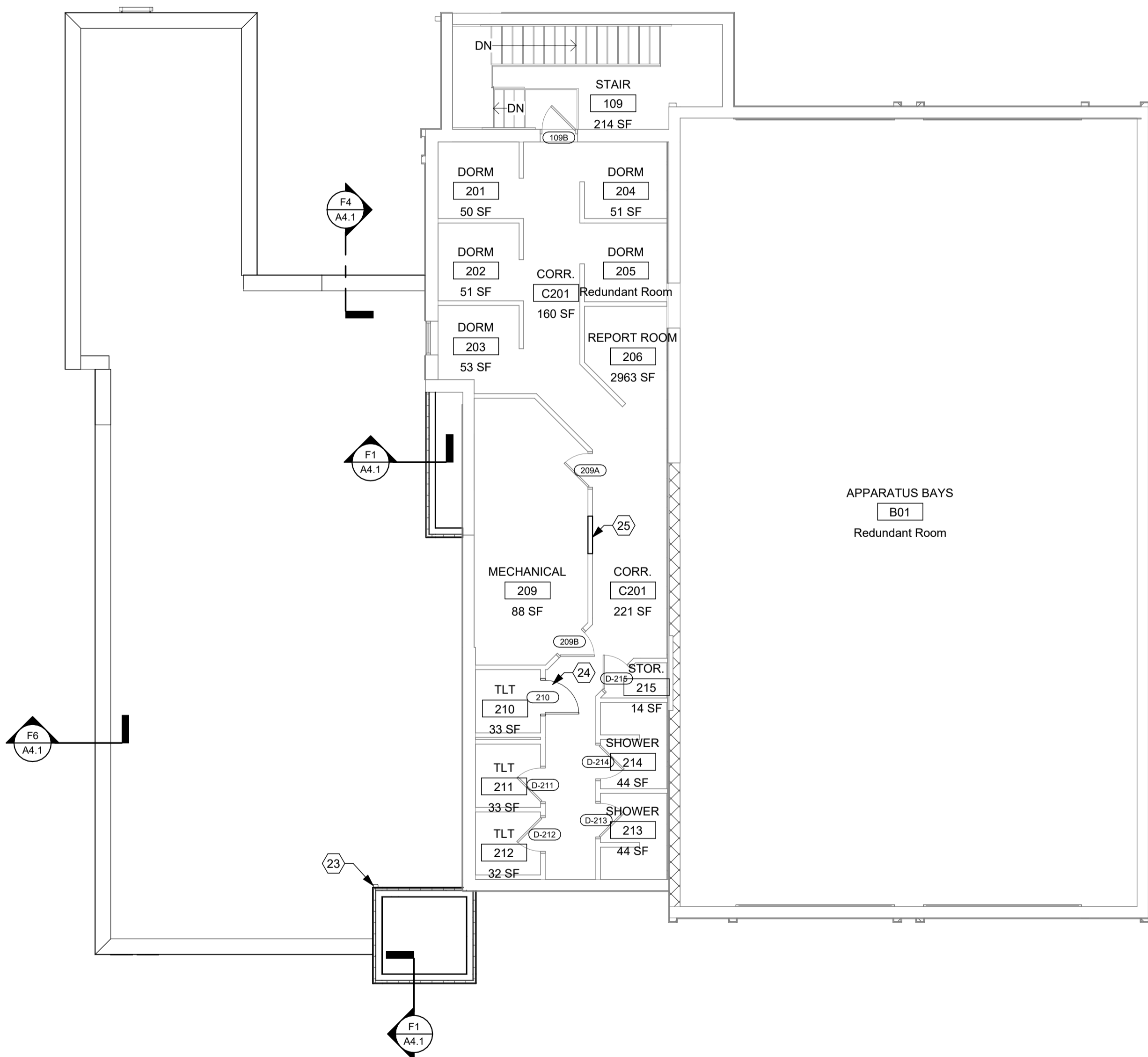
- A. EXISTING STATION MUST REMAIN OPERATIONAL DURING PHASE 1 ADDITION. DURING ALL PHASES, COORDINATE TIMES AND DATES WITH OWNER THAT OPERATION WILL BE INTERRUPTED. REFER TO MEP DRAWINGS FOR FURTHER PHASING DETAILS.

CONSTRUCTION NOTES

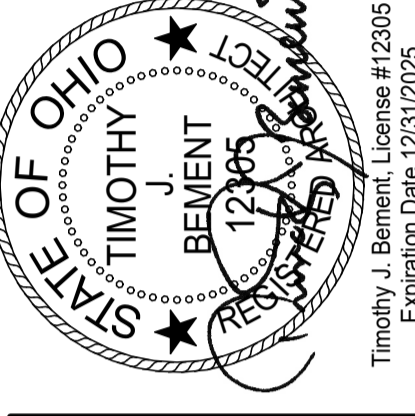
- ⑩⑩ INDICATES CONSTRUCTION NOTE.
NOT ALL NOTES APPLY TO THIS SHEET.
- 1 2 HOUR RATED PARTITIONS AROUND RESIDENTIAL USE GROUP AS INDICATED. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 2 1/2 HOUR RATED PARTITIONS AROUND DORM ROOMS AS INDICATED. PROVIDE 1 HR. RATED CEILING ASSEMBLY (C1) PER UL DESIGN NO. 263. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 3 2 HOUR RATED PARTITIONS AROUND TORNADO SHELTER AS INDICATED. PROVIDE 2HR. RATED CEILING ASSEMBLY (C2) PER UL DESIGN NO. D219. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 4 SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH CONTRACTOR FURNISHED FIRE EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS NONSHEET A0.1 FOR DETAILS.
- 5 WALL HUNG FIRE EXTINGUISHER. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS NONSHEET A0.1 FOR DETAILS.
- 6 INSTALL FRT BLOCKING FOR TV WALL MOUNT. REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS.
- 7 KNOX BOX RAPID ENTRY KEY STORAGE SYSTEM. RECESSED MOUNT @ 4" - 0" A.F.F. CFCI.
- 8 ADJUSTABLE SHELVES. REFER TO CASEWORK DETAILS.
- 9 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.
- 10 PARAPET LADDER. REFER TO A1.6 ROOF PLAN FOR DETAILS.
- 11 NEW STEEL CASEWORK. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
- 12 EXISTING WALL HUNG FIRE EXTINGUISHER.
- 13 TRAINING WINDOW. REFER TO A0.10 FOR DETAILS.
- 14 NEW DOWNSPOUT LOCATION. REFER TO SHEET A5.2 FOR DOWNSPOUT ADAPTOR DETAILS.
- 15 T-SHAPED TURNING SPACE PER FIGURE 304.3 OF THE ICC A117.1-2017.
- 16 ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
- 17 PREP AND INSTALL NEW SHOWER SURROUND, PAN, AND FIXTURES. REFER TO PLUMBING DRAWINGS.
- 18 INFILL REMOVED WALL TO MATCH EXISTING. MAINTAIN MINIMUM 1/2 HR FIRE RATING.
- 19 INFILL REMOVED WALL TO MATCH EXISTING. USE SALVAGED BRICK TO INFILL REMAINDER OF OPENING.
- 20 MAINTAIN 1 HR FIRE RATING ALONG THIS WALL WITH ALL MODIFICATIONS AND PENETRATIONS.
- 21 NEW OPERABLE WINDOW FOR TRAINING ON STAIR LANDING. REFER TO EXTERIOR ELEVATIONS FOR INSTALLATION HEIGHT.
- 22 PROVIDE FINISHED OPENING FROM REMOVAL OF WALL.
- 23 NEW DOWNSPOUT LOCATION TO DRAIN ONTO FLAT ROOF.
- 24 INSTALL SALVAGED DOOR AND FRAME. PROVIDE AND INSTALL NEW DOOR HARDWARE.
- 25 NEW INTERIOR WALL.
- 26 PROVIDE AND INSTALL NEW DOOR HARDWARE ON EXISTING DOOR.
- 28 FIELD VERIFY CONDITION. INFILL CAVITY WITH METAL STUD AND MOISTURE RESISTANT GYP. BD.



E1 SECOND FLOOR DEMO PLAN - PHASE 1
1/8" = 1'-0"



E3 SECOND FLOOR REFERENCE PLAN - PHASE 1
1/8" = 1'-0"



ISSUE	
NO.	DESCRIPTION
12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
DRAWN	MSM
CHECKED	TJB

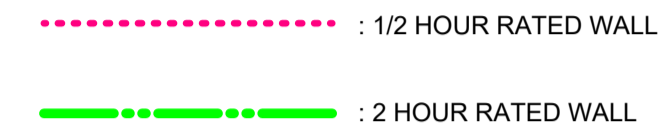
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TITLE
SECOND FLOOR DEMO AND REFERENCE PLANS - PHASE 1
SHEET NO.

DEMO GENERAL NOTES

- A. PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- B. PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION.
- C. PRIOR TO DEMOLITION, REMOVE AND STORE ITEMS TO BE SALVAGED FOR REUSE IN CONSTRUCTION OR GIVEN TO OWNER. SALVAGE ALL DOORS AND EXTERIOR BRICK REMOVED.
- D. COORDINATE ALL DIMENSIONS AS SHOWN WITH NEW WORK LAYOUT.
- E. EXISTING WALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES SHALL BE PREPARED IN A MANNER ACCEPTABLE TO THE FINISH MANUFACTURER.
- F. REMOVE ALL EXISTING SIGNAGE IN THE AREA OF WORK.
- G. REMOVE ALL EXISTING RUBBER BASE THROUGHOUT. PREP FOR NEW BASE.

CONSTRUCTION GENERAL NOTES

- A. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL DETAILS AND NOTES.
- B. DOORS ARE 4" FROM FINISHED FACE OF WALL TO HINGE SIDE OF DOOR OPENING U.N.O.
- C. WALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE U.N.O.
- D. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.
- E. ALIGN FINISH SURFACES WHERE NEW WALL CONSTRUCTION MEETS OR IS ADJACENT TO EXISTING WALL CONSTRUCTION.
- F. INSTALL FRT SOLID WOOD BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, HANDRAILS, PLUMBING, AND TOILET FIXTURES.
- G. REFER TO ELEVATIONS FOR CASEWORK DETAILS.
- H. ALL ROOMS TO RECEIVE NEW WALL PAINT, DOOR FRAME PAINT, DOOR HARDWARE, AND COVE BASE U.N.O.
- I. REPAIR, REFRAME, REINFORCE EXISTING WALLS WHERE FINISHES OR EXISTING WALLS WERE REMOVED OR DISTURBED.
- J. REPAIR ALL EXISTING WALLS WHERE WALL MOUNTED ITEMS HAVE BEEN REMOVED. PREP FOR NEW FINISHES.
- K. FURNITURE SHOWN FOR REFERENCE ONLY.
- L. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.
- M. ALL PARTITIONS TO BE CONSTRUCTED TO STRUCTRE ABOVE U.N.O.
- N. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.
- O. ALL NEW EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.
- P. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.



DEMOLITION NOTES

- ⑩ INDICATES DEMOLITION NOTE.
- 1 REMOVE EXISTING DOOR AND FRAME.
- 2 REMOVE FULL HEIGHT OF EXISTING BRICK BUMP-OUTS
- 3 REMOVE PORTION OF EXTERIOR WALL.
- 4 REMOVE INTERIOR WALL.
- 5 REMOVE PORTION OF WALL.
- 6 REMOVE CASEWORK AND PLUMBING FIXTURES.
- 7 REMOVE CASEWORK.
- 8 REMOVE WINDOW.
- 9 REMOVE EXISTING DOWNSPOUT.
- 10 REMOVE EXISTING FLOORING AND BASE IN ROOM. PREP SUBFLOOR TO RECEIVE NEW FLOOR.
- 11 REMOVE EXISTING TOILET, PLUMBING FIXTURES, CASEWORK, AND WALL TILE.

PHASING NOTES

A. EXISTING STATION MUST REMAIN OPERATIONAL DURING PHASE 1 ADDITION. DURING ALL PHASES, COORDINATE TIMES AND DATES WITH OWNER THAT OPERATION WILL BE INTERRUPTED. REFER TO MEP DRAWINGS FOR FURTHER PHASING DETAILS.

CONSTRUCTION NOTES

- ⑩ INDICATES CONSTRUCTION NOTE.
- NOT ALL NOTES APPLY TO THIS SHEET.
- 1 2 HOUR RATED PARTITIONS AROUND RESIDENTIAL USE GROUP AS INDICATED. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 2 1/2 HOUR RATED PARTITIONS AROUND DORM ROOMS AS INDICATED. PROVIDE 1 HR. RATED CEILING ASSEMBLY (C1) PER UL DESIGN NO. 283. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 3 2 HOUR RATED PARTITIONS AROUND TORNADO SHELTER AS INDICATED. PROVIDE 2HR. RATED CEILING ASSEMBLY (C2) PER UL DESIGN NO. D219. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 4 SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH CONTRACTOR FURNISHED FIRE EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS NONSHEET A0.1 FOR DETAILS.
- 5 WALL HUNG FIRE EXTINGUISHER. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS NONSHEET A0.1 FOR DETAILS.
- 6 INSTALL FRT BLOCKING FOR TV WALL MOUNT. REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS.
- 7 KNOX BOX RAPID ENTRY KEY STORAGE SYSTEM. RECESSED MOUNT @ 4' - 0" A.F.F. CFCI.
- 8 ADJUSTABLE SHELVES. REFER TO CASEWORK DETAILS.
- 9 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.
- 10 PARAPET LADDER. REFER TO A1.6 ROOF PLAN FOR DETAILS.
- 11 NEW STEEL CASEWORK. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
- 12 EXISTING WALL HUNG FIRE EXTINGUISHER.
- 13 TRAINING WINDOW. REFER TO A0.10 FOR DETAILS.
- 14 NEW DOWNSPOUT LOCATION. REFER TO SHEET A5.2 FOR DOWNSPOUT ADAPTOR DETAILS.
- 15 T-SHAPED TURNING SPACE PER FIGURE 304.3 OF THE ICC A117.1-2017.
- 16 ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
- 17 PREP AND INSTALL NEW SHOWER SURROUND, PAN, AND FIXTURES. REFER TO PLUMBING DRAWINGS.
- 18 INFILL REMOVED WALL TO MATCH EXISTING. MAINTAIN MINIMUM 1/2 HR FIRE RATING.
- 19 INFILL REMOVED WALL TO MATCH EXISTING. USE SALVAGED BRICK TO INFILL REMAINDER OF OPENING.
- 20 MAINTAIN 1 HR FIRE RATING ALONG THIS WALL WITH ALL MODIFICATIONS AND PENETRATIONS.
- 21 NEW OPERABLE WINDOW FOR TRAINING ON STAIR LANDINGS. REFER TO EXTERIOR ELEVATIONS FOR INSTALLATION HEIGHT.
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- 25 NEW INTERIOR WALL.
- 26 PROVIDE AND INSTALL NEW DOOR HARDWARE ON EXISTING DOOR.
- 28 FIELD VERIFY CONDITION. INFILL CAVITY WITH METAL STUD AND MOISTURE RESISTANT GYP. BD.

A

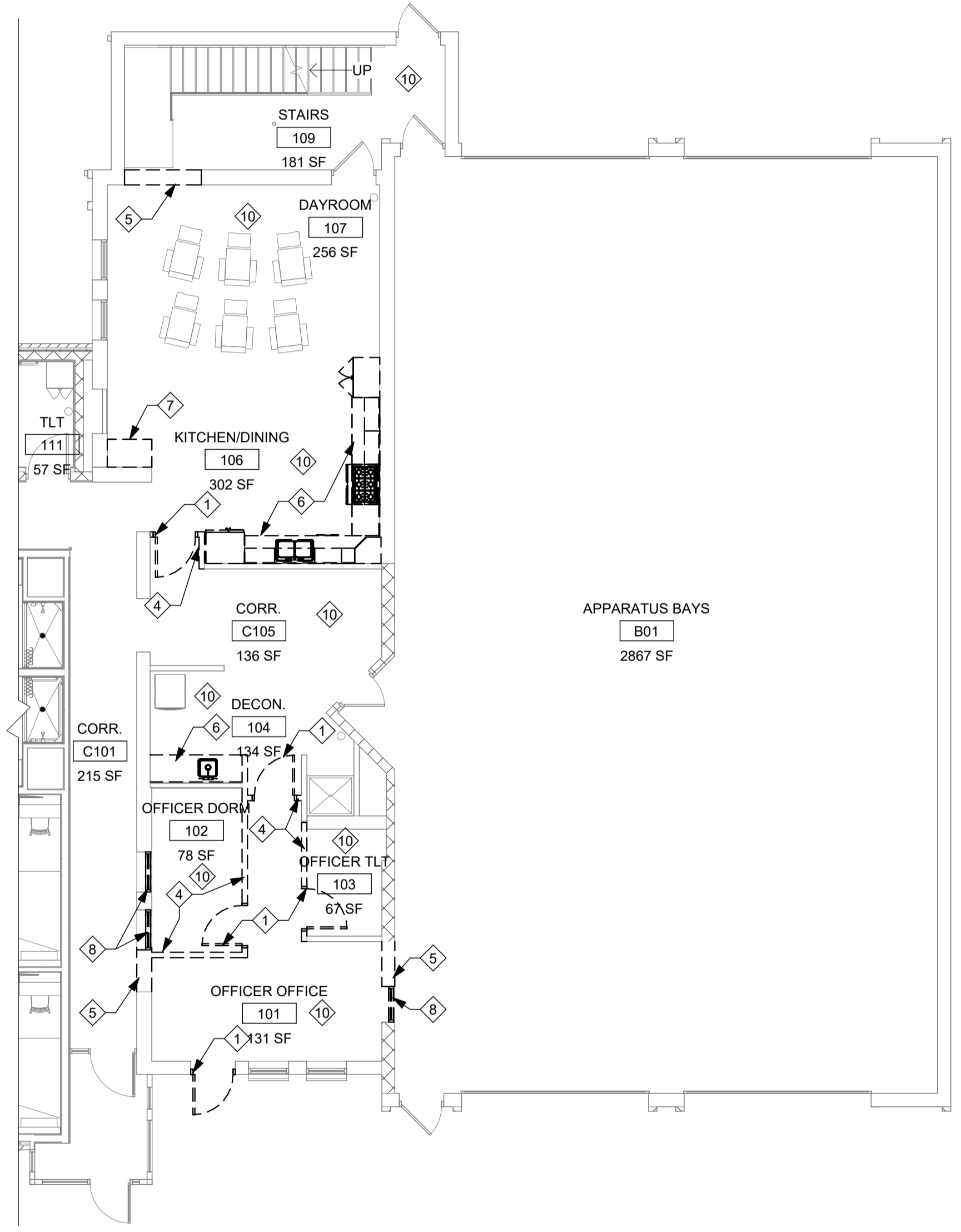
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C

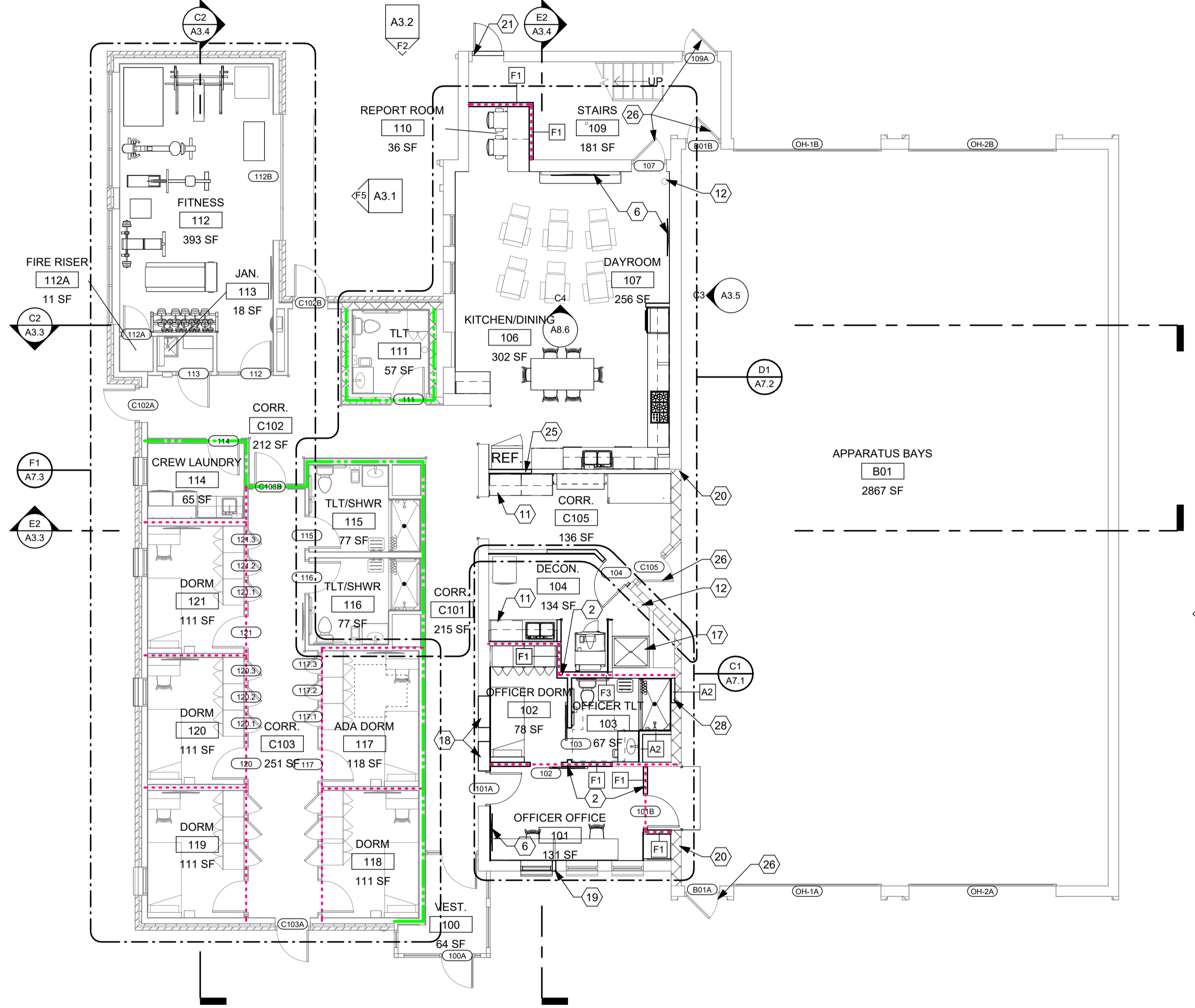
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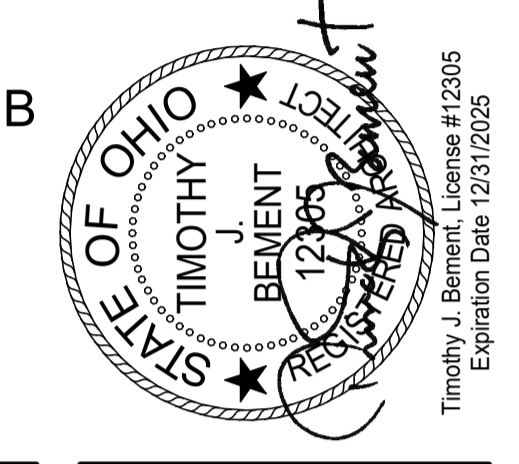
F



E1 FIRST FLOOR DEMO PLAN - PHASE 2
1/8" = 1'-0"



E3 FIRST FLOOR REFERENCE PLAN - PHASE 2
1/8" = 1'-0"



ISSUE		
NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
DRAWN	MSM
CHECKED	TJB
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TITLE FIRST FLOOR DEMO AND REFERENCE PLAN - PHASE 2	
SHEET NO. A1.3	

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DEMO GENERAL NOTES

- A. PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- B. PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION.
- C. PRIOR TO DEMOLITION, REMOVE AND STORE ITEMS TO BE SALVAGED FOR REUSE IN CONSTRUCTION OR GIVEN TO OWNER. SALVAGE ALL DOORS AND EXTERIOR BRICK REMOVED.
- D. COORDINATE ALL DIMENSIONS AS SHOWN WITH NEW WORK LAYOUT.
- E. EXISTING WALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES SHALL BE PREPARED IN A MANNER ACCEPTABLE TO THE FINISH MANUFACTURER.
- F. REMOVE ALL EXISTING SIGNAGE IN THE AREA OF WORK.
- G. REMOVE ALL EXISTING RUBBER BASE THROUGHOUT. PREP FOR NEW BASE.

CONSTRUCTION GENERAL NOTES

- A. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL DETAILS AND NOTES.
- B. DOORS ARE 4" FROM FINISHED FACE OF WALL TO HINGE SIDE OF DOOR OPENING U.N.O.
- C. WALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE U.N.O.
- D. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.
- E. ALIGN FINISH SURFACES WHERE NEW WALL CONSTRUCTION MEETS OR IS ADJACENT TO EXISTING WALL CONSTRUCTION.
- F. INSTALL FRT SOLID WOOD BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, HANDRAILS, PLUMBING, AND TOILET FIXTURES.
- G. REFER TO ELEVATIONS FOR CASEWORK DETAILS.
- H. ALL ROOMS TO RECEIVE NEW WALL PAINT, DOOR FRAME PAINT, DOOR HARDWARE, AND COVE BASE U.N.O.

- I. REPAIR, REFRAME, REINFORCE EXISTING WALLS WHERE FINISHES OR EXISTING WALLS WERE REMOVED OR DISTURBED.
- J. REPAIR ALL EXISTING WALLS WHERE WALL MOUNTED ITEMS HAVE BEEN REMOVED. PREP FOR NEW FINISHES.
- K. FURNITURE SHOWN FOR REFERENCE ONLY.
- L. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.
- M. ALL PARTITIONS TO BE CONSTRUCTED TO STRUCTRE ABOVE U.N.O.
- N. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.
- O. ALL NEW EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.
- P. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

..... : 1/2 HOUR RATED WALL
 : 2 HOUR RATED WALL

DEMOLITION NOTES

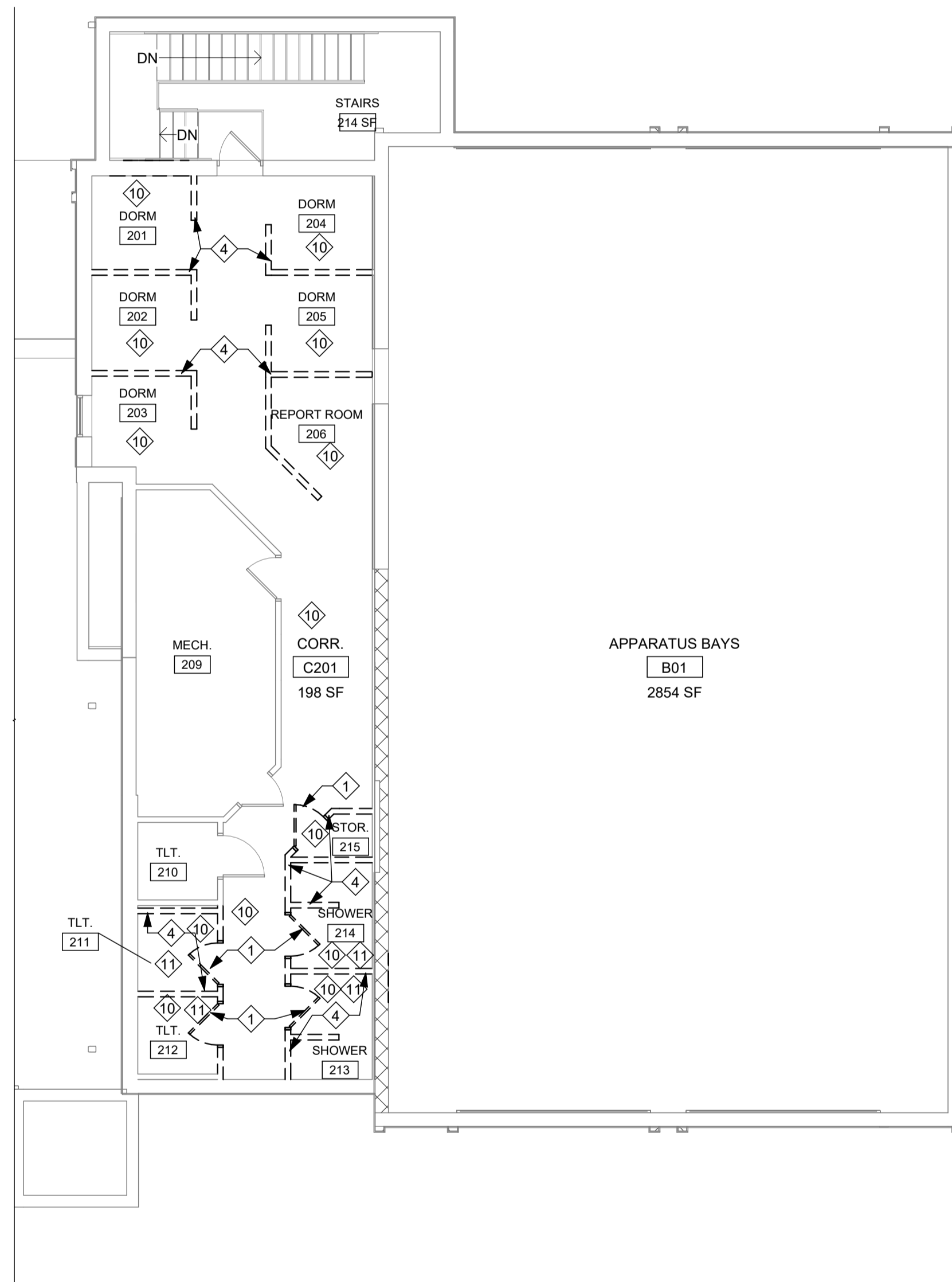
- ⑩ INDICATES DEMOLITION NOTE.
- 1 REMOVE EXISTING DOOR AND FRAME.
- 2 REMOVE FULL HEIGHT OF EXISTING BRICK BUMP-OUTS
- 3 REMOVE PORTION OF EXTERIOR WALL.
- 4 REMOVE INTERIOR WALL.
- 5 REMOVE PORTION OF WALL.
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- 7 REMOVE CASEWORK.
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- 11 REMOVE EXISTING TOILET, PLUMBING FIXTURES, CASEWORK, AND WALL TILE.

PHASING NOTES

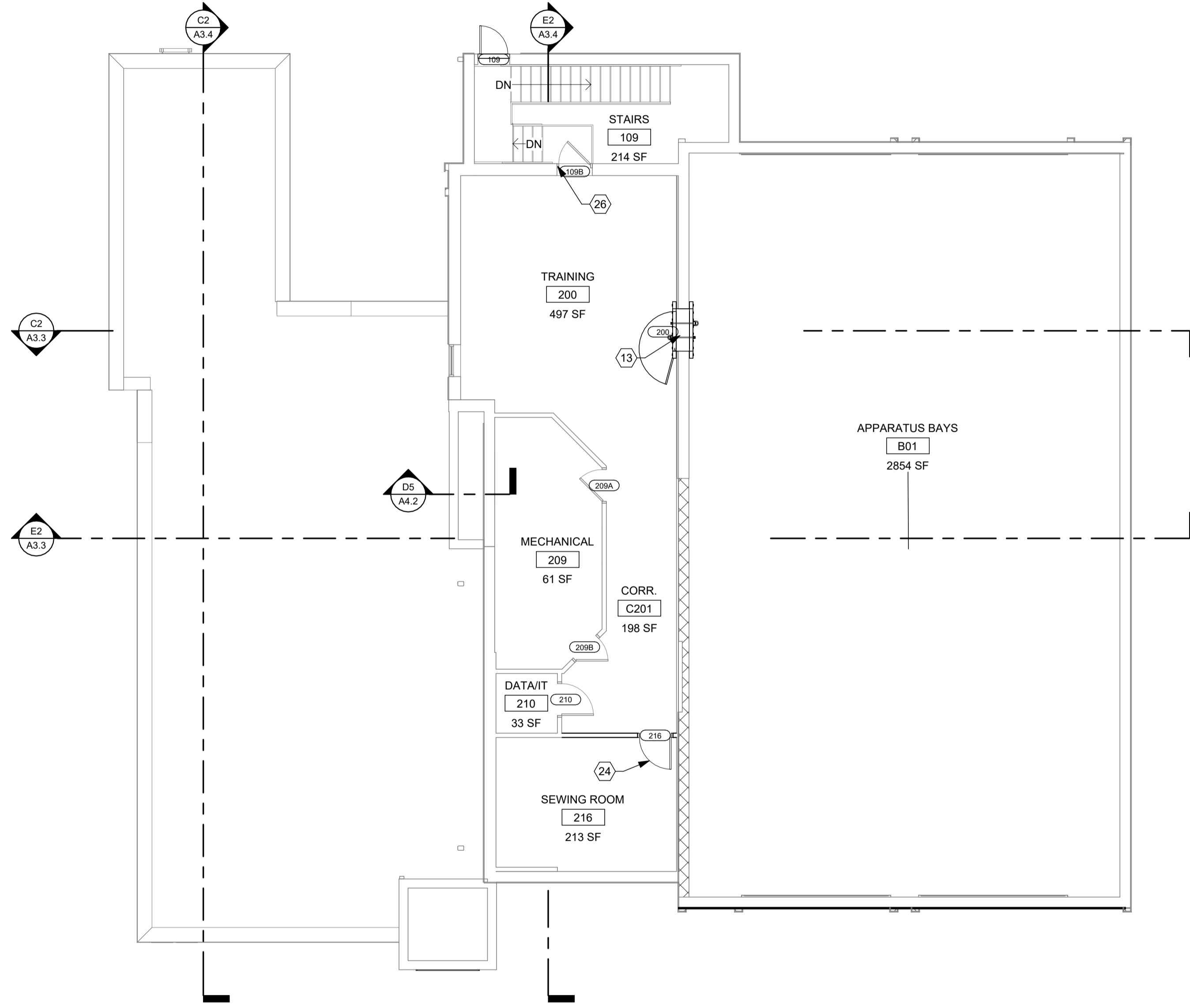
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CONSTRUCTION NOTES

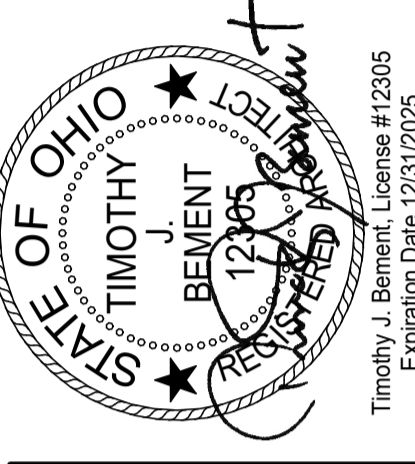
- ⑩ INDICATES CONSTRUCTION NOTE.
NOT ALL NOTES APPLY TO THIS SHEET.
- 1 2 HOUR RATED PARTITIONS AROUND RESIDENTIAL USE GROUP AS INDICATED. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 2 1/2 HOUR RATED PARTITIONS AROUND DORM ROOMS AS INDICATED. PROVIDE 1 HR. RATED CEILING ASSEMBLY (C1) PER UL DESIGN NO. 283. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 3 2 HOUR RATED PARTITIONS AROUND TORNADO SHELTER AS INDICATED. PROVIDE 2HR. RATED CEILING ASSEMBLY (C2) PER UL DESIGN NO. D219. REFER TO SHEET A0.4 FOR RATED ASSEMBLY DETAILS.
- 4 SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH CONTRACTOR FURNISHED FIRE EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS NONSHEET A0.1 FOR DETAILS.
- 5 WALL HUNG FIRE EXTINGUISHER. CONTRACTOR FURNISHED. CONTRACTOR INSTALLED. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS NONSHEET A0.1 FOR DETAILS.
- 6 INSTALL FRT BLOCKING FOR TV WALL MOUNT. REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS.
- 7 KNOX BOX RAPID ENTRY KEY STORAGE SYSTEM. RECESSED MOUNT @ 4' - 0" A.F.F. CFCI.
- 8 ADJUSTABLE SHELVES. REFER TO CASEWORK DETAILS.
- 9 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.
- 10 PARAPET LADDER. REFER TO A1.6 ROOF PLAN FOR DETAILS.
- 11 NEW STEEL CASEWORK. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
- 12 EXISTING WALL HUNG FIRE EXTINGUISHER.
- 13 TRAINING WINDOW. REFER TO A0.10 FOR DETAILS.
- 14 NEW DOWNSPOUT LOCATION. REFER TO SHEET A5.2 FOR DOWNSPOUT ADAPTOR DETAILS.
- 15 T-SHAPED TURNING SPACE PER FIGURE 304.3 OF THE ICC A117.1-2017.
- 16 ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
- 17 PREP AND INSTALL NEW SHOWER SURROUND, PAN, AND FIXTURES. REFER TO PLUMBING DRAWINGS.
- 18 INFILL REMOVED WALL TO MATCH EXISTING. MAINTAIN MINIMUM 1/2 HR FIRE RATING.
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- 20 MAINTAIN 1 HR FIRE RATING ALONG THIS WALL WITH ALL MODIFICATIONS AND PENETRATIONS.
- 21 NEW OPERABLE WINDOW FOR TRAINING ON STAIR LANDING. REFER TO EXTERIOR ELEVATIONS FOR INSTALLATION HEIGHT.
- 22 PROVIDE FINISHED OPENING FROM REMOVAL OF WALL.
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- 24 INSTALL SALVAGED DOOR AND FRAME. PROVIDE AND INSTALL NEW DOOR HARDWARE.
- 25 NEW INTERIOR WALL.
- 26 PROVIDE AND INSTALL NEW DOOR HARDWARE ON EXISTING DOOR.
- 28 FIELD VERIFY CONDITION. INFILL CAVITY WITH METAL STUD AND MOISTURE RESISTANT GYP. BD.



E1 SECOND FLOOR DEMO PLAN - PHASE 2
1/8" = 1'-0"



E3 SECOND FLOOR REFERENCE PLAN - PHASE 2
1/8" = 1'-0"



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TITLE SECOND FLOOR DEMO AND REFERENCE PLANS - PHASE 2	
SHEET NO. A1.4	

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B

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CONSTRUCTION NOTES

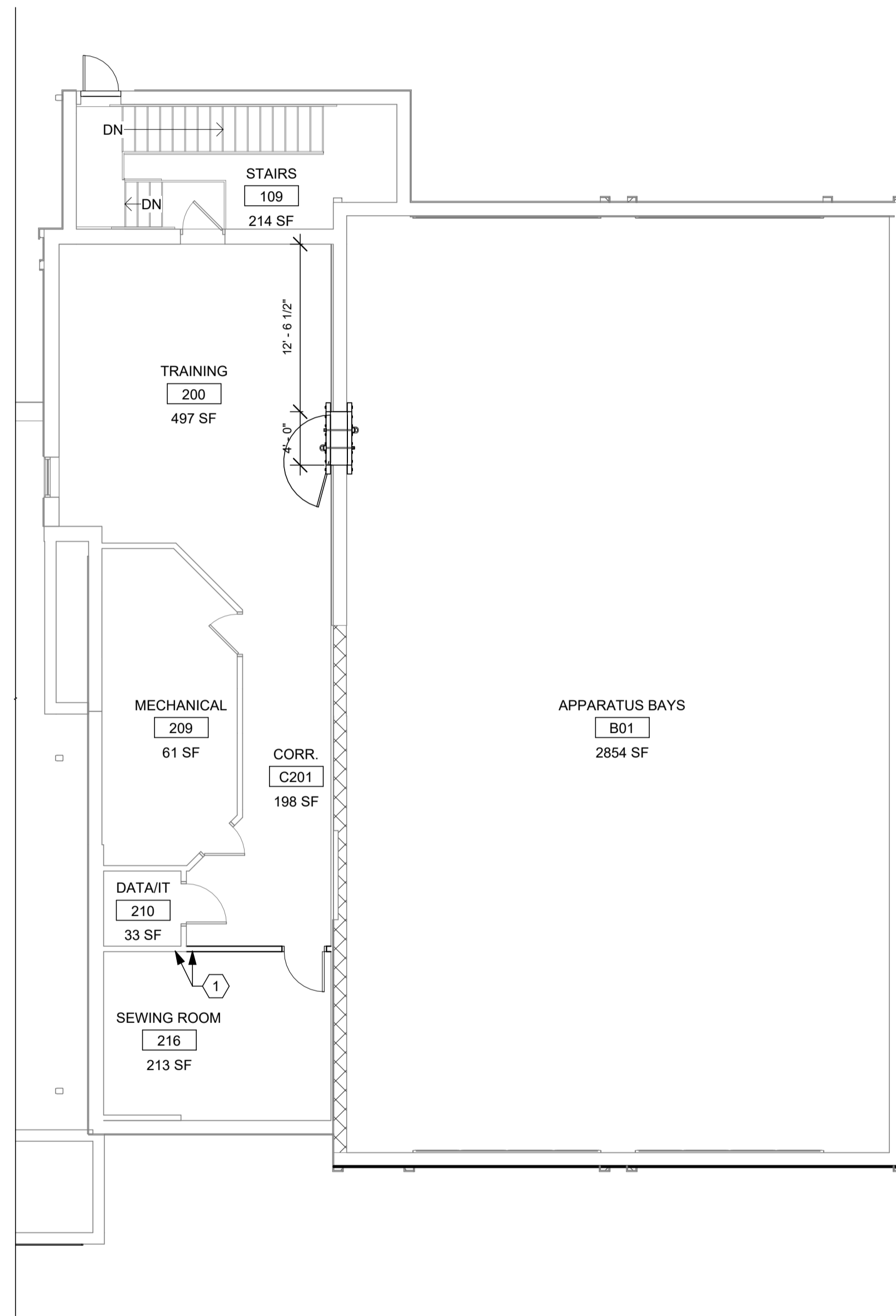
⓪ INDICATES CONSTRUCTION NOTE.

- 1 ALIGN.
- 2 REFER TO SHEET G0.2 FOR ADDITIONAL SHELTER DIMENSIONS.

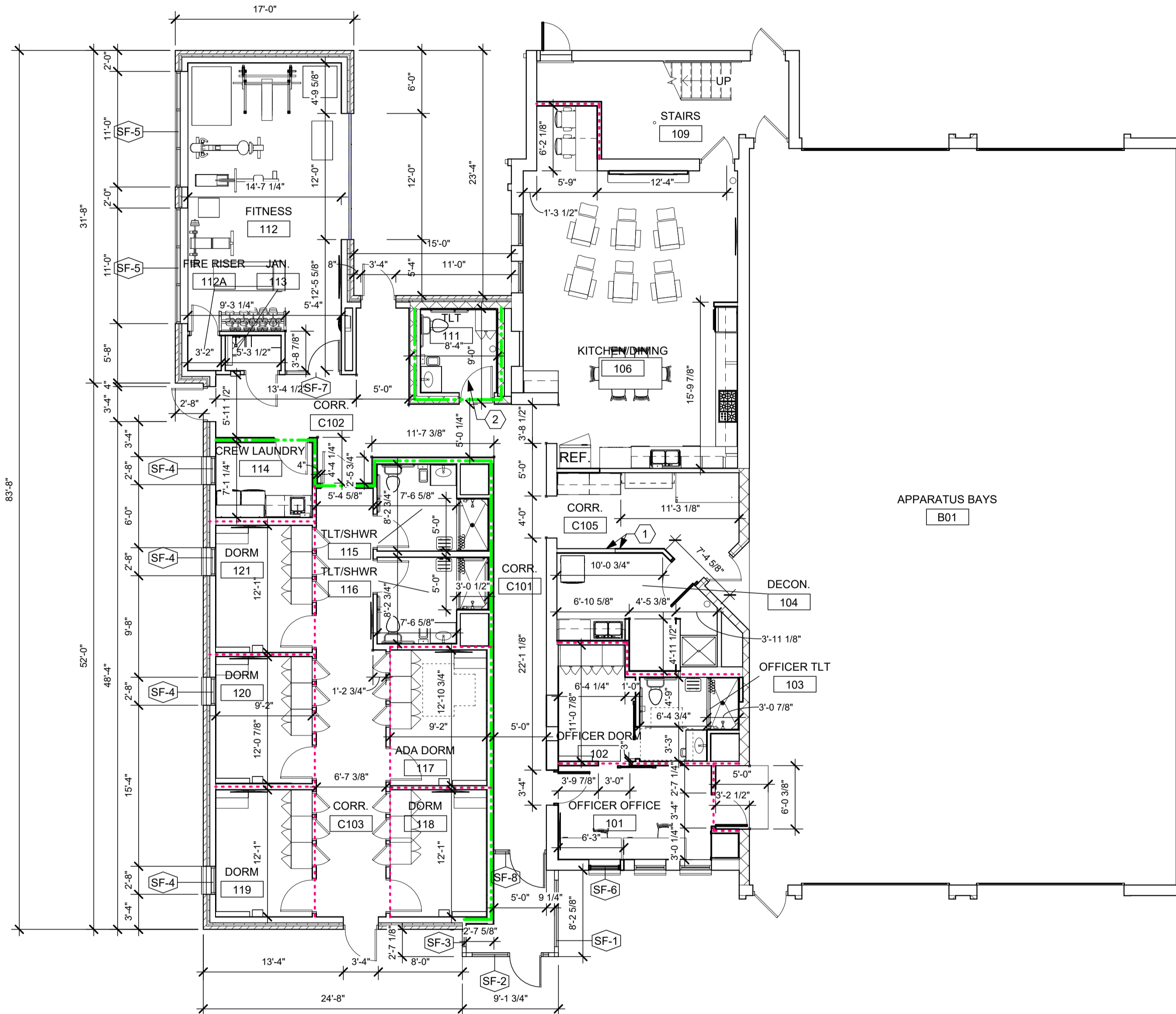
GENERAL NOTES

- A. ALL WALLS ARE A-1 U.N.O.
- B. ALL PARTITIONS TO BE CONSTRUCTED TO DECK ABOVE U.N.O.
- C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.
- D. REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.
- E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.
- F. REFER TO FINISH FLOOR PLAN FOR CORNER GUARD AND END WALL GUARD LOCATIONS.
- G. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.
- H. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.
- I. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.
- J. FURNITURE SHOWN FOR REFERENCE ONLY.
- K. REFER TO ENLARGED PLANS FOR ADDITIONAL DETAILS.
- L. DIMENSION PLANS SHOW FINISHED WORK. REFER TO SHEETS A1.1, A1.2, A1.3, AND A1.4 FOR PHASES OF WORK TO BE COMPLETED.

- ⋯ : 1/2 HOUR RATED WALL
- : 2 HOUR RATED WALL



E1 SECOND FLOOR DIMENSION PLAN
1/8" = 1'-0"



E3 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"



Renovation and Addition
Huber Heights Fire Station 23
 7435 Old Troy Pike, Dayton, Ohio 45424

NO.	DATE	DESCRIPTION
1	12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
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 TITLE
DIMENSION PLAN

SHEET NO.
A1.5

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A

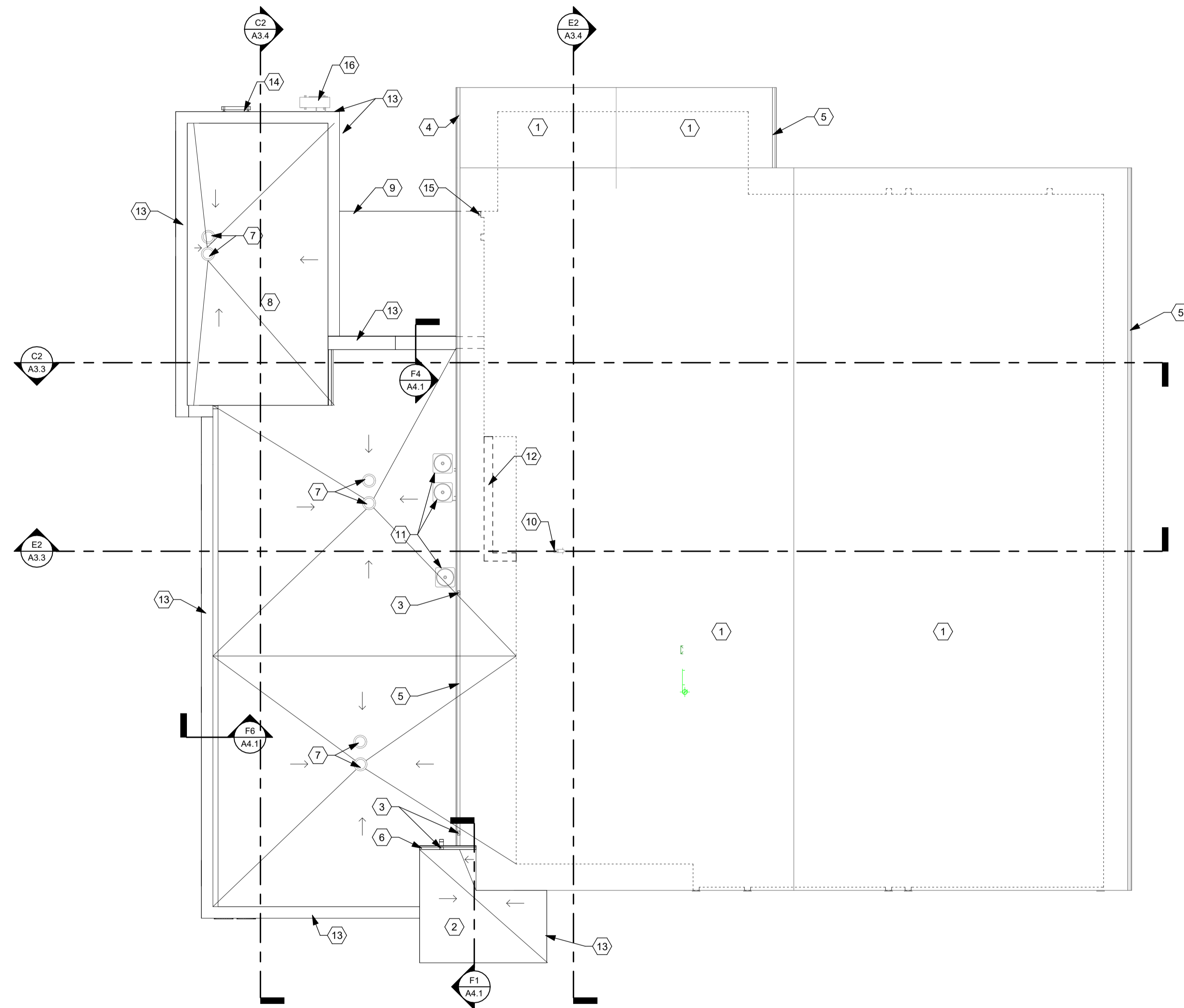
B

C

D

E

F



E3 ROOF PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

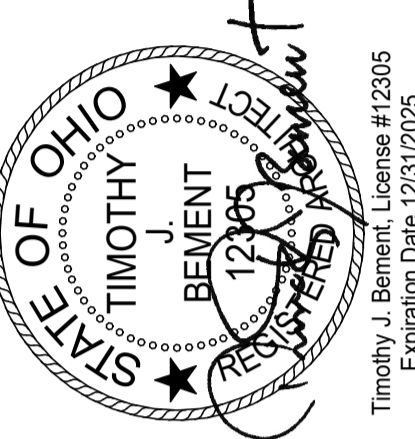
- ① INDICATES CONSTRUCTION NOTE.
- 1 EXISTING ROOF.
- 2 TAPERED INSULATION OVER BASE LAYER INSULATION. 1/8:12 MIN. SLOPE.
- 3 NEW 4" X 6" RECTANGULAR DOWNSPOUT LOCATION. DOWNSPOUT TO SPILL ONTO NEW ROOF AND COLOR TO MATCH EXISTING.
- 4 EXISTING 4" X 6" RECTANGULAR DOWNSPOUT LOCATION. REFER TO SHEET A5.2 FOR DOWNSPOUT ADAPTOR DETILS. REFER TO CIVIL DRAWINGS.
- 5 EXISTING GALVALUME GUTTER TO REMAIN.
- 6 NEW 6" PREFINISHED GALVALUM GUTTER TO MATCH EXISTING COLOR.
- 7 ROOF DRAINS. REFER TO PLUMBING DRAWINGS.
- 8 MEMBRANE ROOF OVER TAPERED INSULATION OVER R20 MIN RIGID INSULATION. REFER TO SPECIFICATIONS.
- 9 PREMANUFACTURED METAL AWNING. REFER TO SHEET A5.1 FOR DETILS.
- 10 ROOF VENTS. REFER TO MECHANICAL DRAWINGS.
- 11 ROOF TOP MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
- 12 NEW ROOF ENCLOSURE. REFER TO SHEET A3.1 EXTERIOR ELEVATIONS AND SHEET A4.1 WALL SECTIONS.
- 13 COPING. REFER TO WALL SECTIONS.
- 14 OFFSET PARAPET GUARD RAIL. 36" LONG x 12" TALL. BASIS OF DESIGN: ALSOLU, VECTACO OFFSET PARAPET GUARD RAIL, VAD-D1 OR APPROVED EQUAL. SECURE THROUGH BRICK VENEER AND INTO BLOCKING WITHIN STUD WALL.
- 15 NEW 4" X 6" RECTANGULAR DOWNSPOUT LOCATION FOR CANOPY. REFER TO SHEET A5.1 FOR DETILS.
- 16 MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.

GENERAL NOTES

- A. ROOF PLAN SHOWS FINISHED WORK. REFER TO SHEETS A1.1, A1.2, A1.3, AND A1.4 FOR PHASES OF WORK TO BE COMPLETED.
- B. COORDINATE ROOF PENETRATIONS WITH PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS.
- C. ALL PENETRATIONS THROUGH ROOF SHALL BE PAINTED TO MATCH ROOF.
- D. ALL ROOFS SLOPED TO DRAINS AT 1/8:12 WITH TAPERED INSULATION U.N.O.
- E. ALL NEW ROOFS EPDM OVER R20 RIGID INSULATION.

← INDICATES DIRECTION OF ROOF OR TAPERED INSULATION SLOPE.

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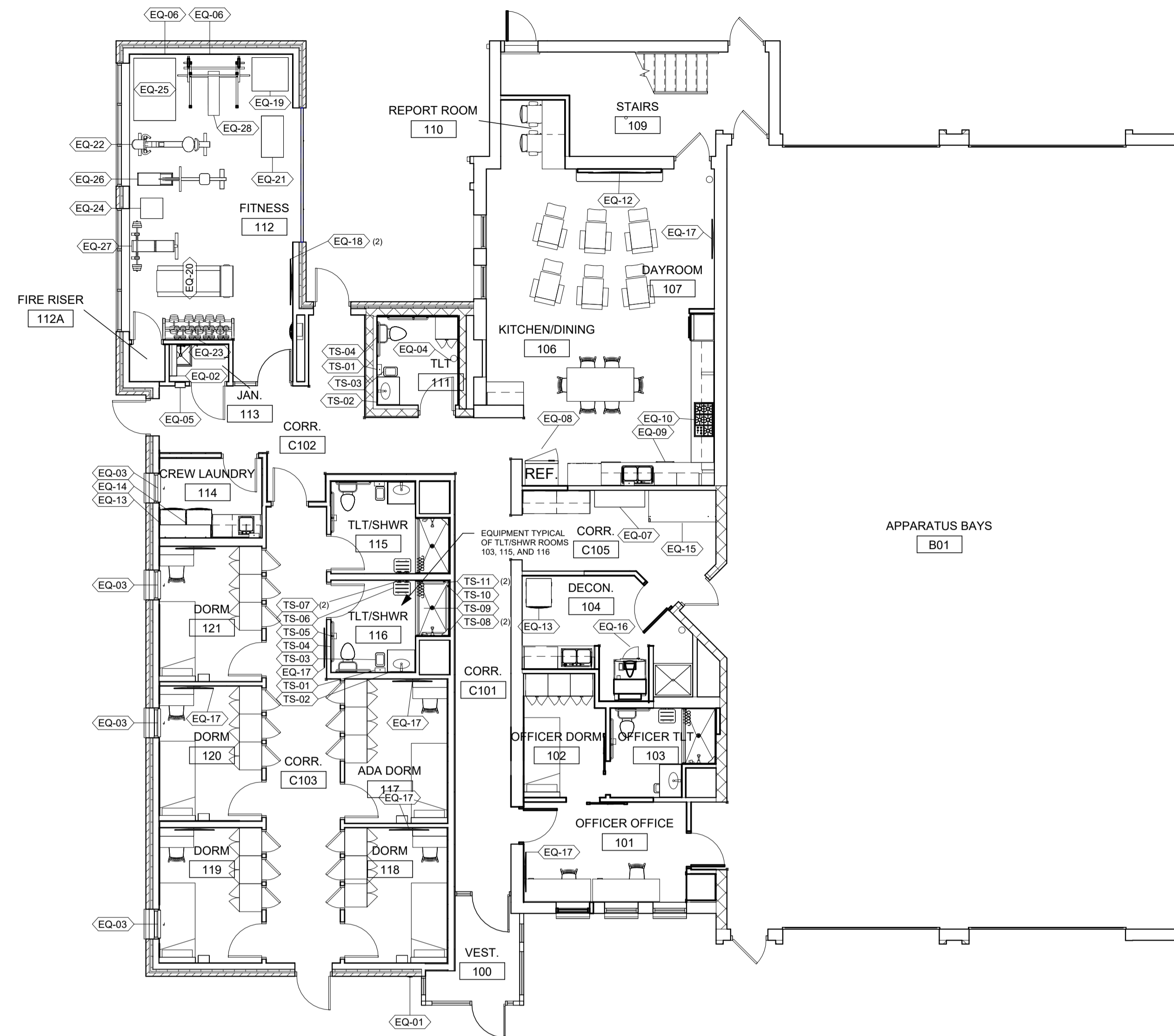
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TITLE
ROOF PLAN

SHEET NO.
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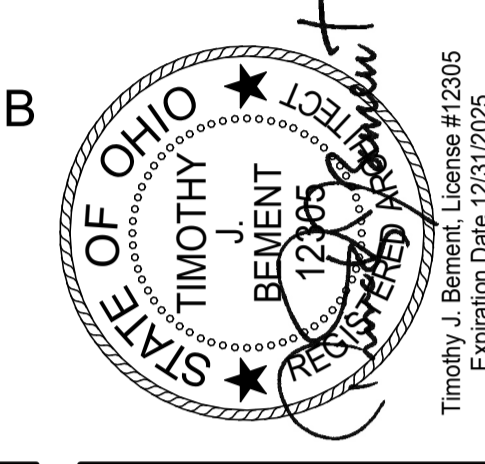


D3 EQUIPMENT PLAN
1/8" = 1'-0"

EQUIPMENT SCHEDULE CFCI		
TYPE	DESCRIPTION	COMMENTS
EQ-01	EMERGENCY KEY CABINET (KNOX BOX)	BASIS OF DESIGN: KNOXBOX, MODEL #3272
EQ-02	MOP HANGER WITH OVERSHELF	REFER TO SPECIFICATIONS
EQ-03	BLACK OUT ROLL SHADE 2'-6"	REFER TO SPECIFICATIONS
EQ-04	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A0.1 FOR MOUNTING STANDARDS
EQ-05	SEMI RECESSED FIRE EXTINGUISHER CABINET	REFER TO SHEET A0.1 FOR MOUNTING STANDARDS
EQ-06	4'-0" x 7'-0" MIRROR	REFER TO SPECIFICATIONS
TS-02	MIRROR 18" x 36"	REFER TO SPECIFICATIONS
TS-03	TRASH CAN	REFER TO SPECIFICATIONS
TS-04	GRAB BAR, STAINLESS STEEL, (3) PIECE ASSEMBLY, 18" x 1.5" DIA. 36" x 1.5" DIA. 42" x 1.5" DIA.	REFER TO SHEET A0.1 FOR MOUNTING STANDARDS
TS-05	TOILET TISSUE DISPENSER	REFER TO SPECIFICATIONS
TS-06	SEAT, FOLDING	REFER TO SPECIFICATIONS
TS-07	ROBE HOOK	REFER TO SPECIFICATIONS
TS-08	SOAP DISH, CORNER	REFER TO SPECIFICATIONS
TS-09	SHOWER ROD	REFER TO SPECIFICATIONS
TS-10	GRAB BAR, STAINLESS STEEL 48" x 1.5" DIA.	REFER TO SPECIFICATIONS
TS-11	GRAB BAR, STAINLESS STEEL 24" x 1.5" DIA.	REFER TO SPECIFICATIONS

EQUIPMENT SCHEDULE OFCI		
TYPE	DESCRIPTION	COMMENTS
EQ-08	REFRIGERATOR	
EQ-09	DISHWASHER	
EQ-10	GAS COOKTOP	
EQ-12	75" SMART TV	
EQ-13	RESIDENTIAL CLOTHES WASHER	
EQ-14	RESIDENTIAL CLOTHES DRYER	
EQ-15	EMS VENDING MACHINE	
EQ-16	DECON GEAR WASHER	
EQ-17	42" SMART TV	
EQ-18	55" SMART TV	
TS-01	PAPER TOWEL DISPENSER	

EQUIPMENT SCHEDULE OFOI		
TYPE	DESCRIPTION	COMMENTS
EQ-07	OXYGEN CASCADE	
EQ-19	SAUNA RAY SAUNA	
EQ-20	TREADMILL	
EQ-21	ROGUE ECHO BIKE	
EQ-22	ELLIPTICAL MACHINE	
EQ-23	DUMBBELL RACK	
EQ-24	WEIGHT PLATE TREE	
EQ-25	DIP STATION	
EQ-26	CONCEPT 2 ROWER	
EQ-27	WEIGHT BENCH	
EQ-28	FUNCTIONAL TRAINER AND WEIGHT BENCH	



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TITLE EQUIPMENT PLAN	

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DEMOLITION NOTES

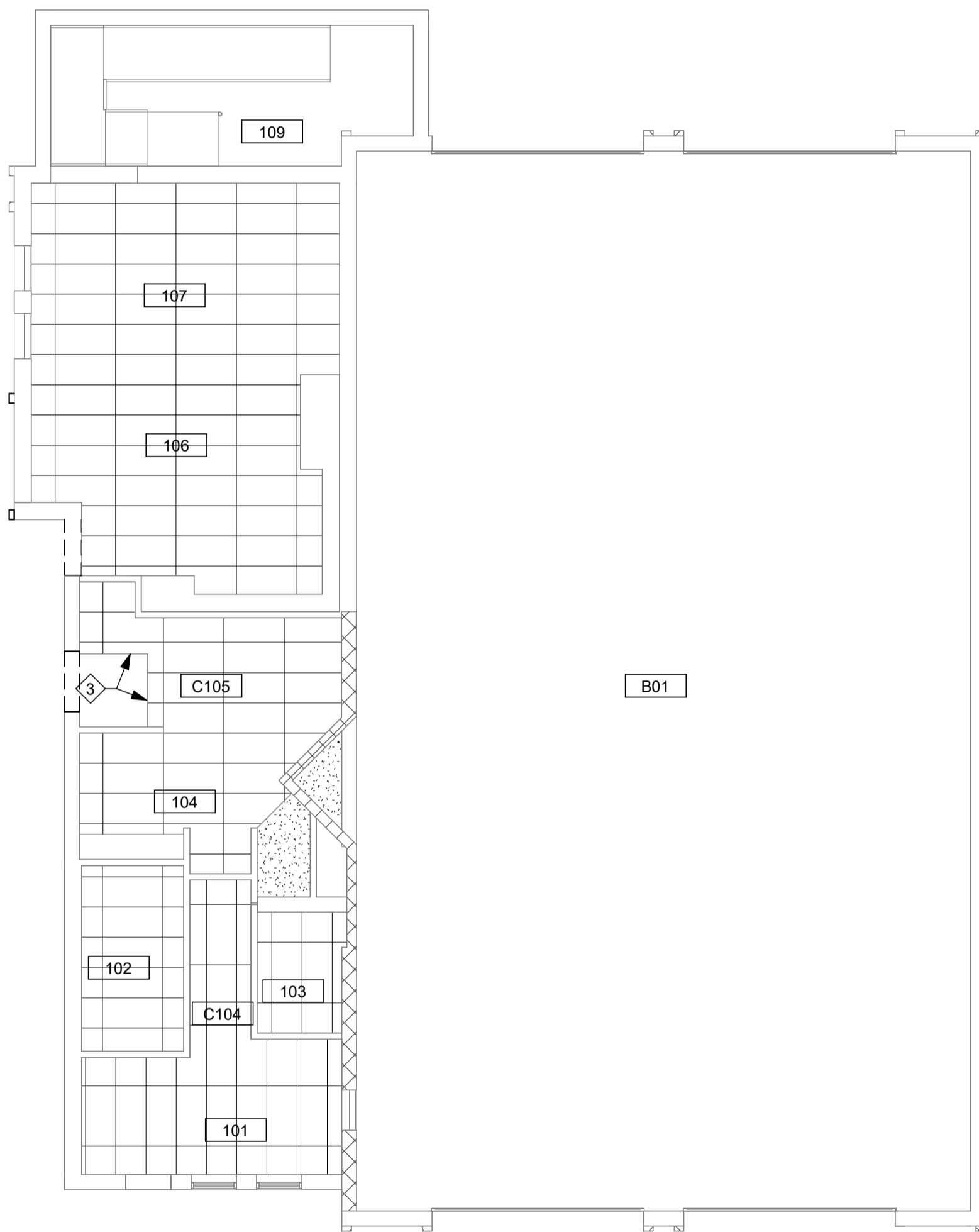
- ◇ INDICATES DEMOLITION NOTE.
- 1 DEMO WALL.
- 2 REMOVE EXISTING APC AND GRID.
- 3 REMOVE NECESSARY ELEMENTS OF FIRE POLE ENCLOSURE FOR INSTALL OF NEW CEILING.

CONSTRUCTION NOTES

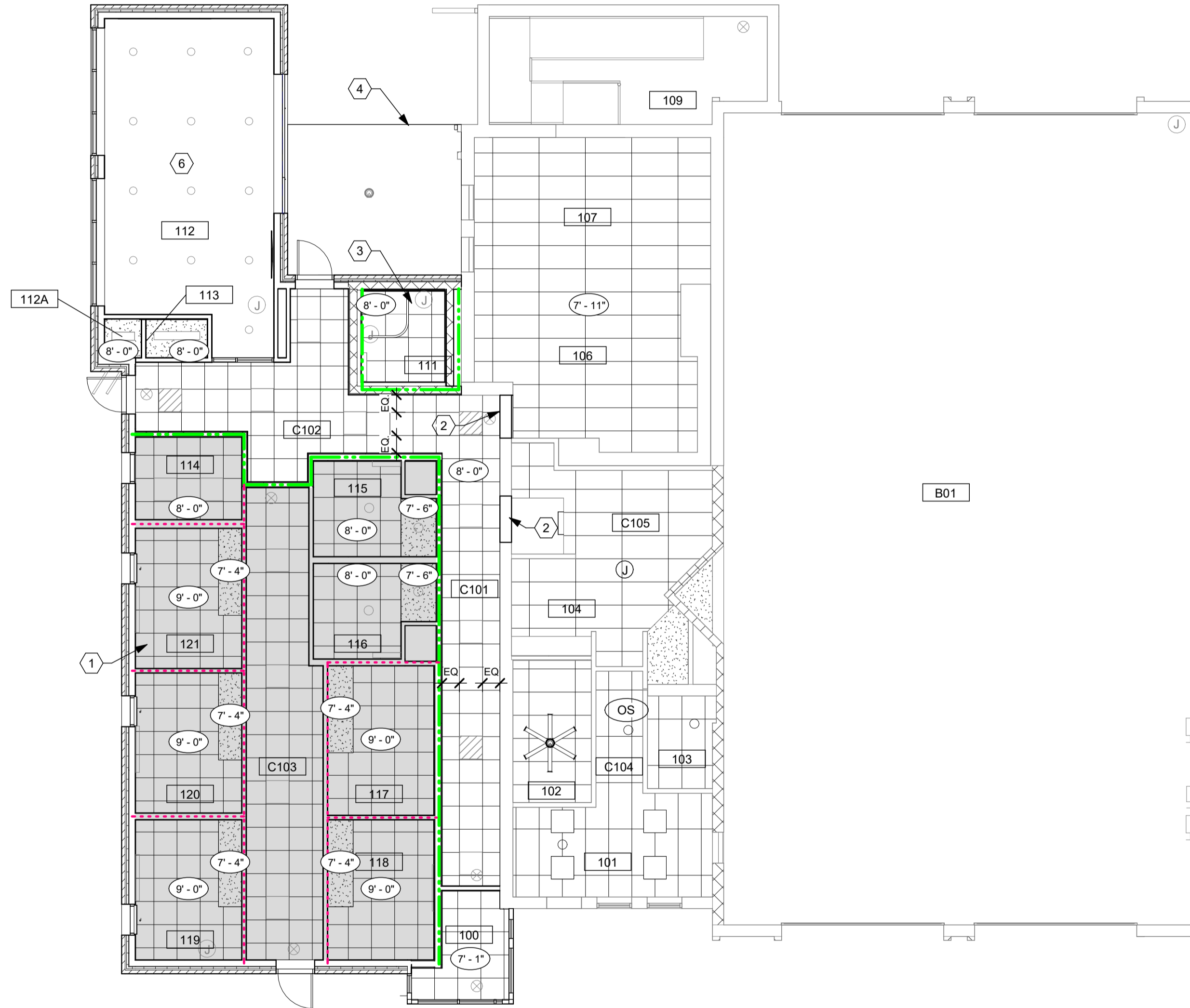
- Ⓞ INDICATES CONSTRUCTION NOTE.
- NOT ALL NOTES APPLY TO THIS SHEET.
- 1 SHADED AREA: CEILING TYPE C1. U.L. NO. 263 RATED CEILING MOUNTED TO UNDERSIDE OF TRUSSES REQUIRED IN R-2 SLEEPING AREA.
- 2 FRAMED GYPSUM BOARD BULKHEAD @7'-2" A.F.F.
- 3 CUBICLE CURTAIN. REFER TO SHEET A0.10 FOR DETAILS. BASIS OF DESIGN: INPRO CORPORATION. FORMATRAC. PVC CURTAIN TRACK: NOT LESS THAN 1-1/4" WIDE x 15/16" HIGH. CURTAIN GROMMETS: TWO-PIECE, ROLLED EDGE, RUSTPROOF, NICKLE PLATED BRASS. SPACED NOT MORE THAN 6" O.C. MACHINED INTO TOP HEM. MESH TOP: NOT LESS THAN 22" HIGH MESH TOP OF NO 50 NYLON MESH. CURTAIN TIEBACK: NICKEL-PLATED BRASS CHAIN. ONE AT WET WALL.
- 4 PREMANUFACTURED METAL AWNING. REFER TO SHEET A5.01 FOR DETAILS.
- 5 PATCH GYP. BD. CEILING FROM DEMOLISHED WALLS.
- 6 OPEN TO STRUCTURE ABOVE. REFER TO FINISH SCHEDULE.
- 7 REFER TO STRUCTURAL DRAWINGS FOR DEMO OF PORTION OF WALL. PAINT TO MATCH EXISTING.
- 8 EXISTING SOFFIT TO REMAIN. PAINT P-5.
- 9 NEW SOFFIT TO ALIGN WITH EXISTING SOFFIT. PAINT P-1.
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- 11 PAINT GYP. BD. CEILING EP-1.
- 12 EXISTING CEILING TO REMAIN. PATCH AND REPAIR AS NEEDED. PAINT P-1.
- 13 PROVIDE AND INSTALL NEW APC CEILING AND GRID.
- 14 NEW GYP. BD. SOFFIT. REFER TO INTERIOR ELEVATIONS FOR HEIGHT. COORDINATE WITH SELECTED STEEL CASEWORK SUPPLIER STANDARD SIZES TO MAINTAIN 18" MIN. BETWEEN UPPER AND BASE CABINETS.
- 15 PATCH AND PAINT EXISTING GYP. BD. CEILING P-1.

GENERAL NOTES

- A. REFER TO ROOM FINISH SCHEDULE, MATERIALS LEGEND, AND SPECIFICATIONS FOR CEILING TYPES AND FINISHES.
- B. LAYOUT GRIDS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES. BORDER TILES TO BE 3" MINIMUM U.N.O. INSTALL EDGE MOLDING AT PERIMETER U.N.O.
- C. REFER TO MEP DRAWINGS FOR DEVICE DESCRIPTIONS.
- D. ALL EXPOSED GYPSUM BOARD SURFACES SHALL BE PAINTED.
- E. EXPOSED STRUCTURE SHALL BE PAINTED PER SPECIFICATIONS.
- F. GENERAL CONTRACTOR TO COORDINATE THE LOCATION OF ALL ALERTING SYSTEM DEVICES WITH THE DEVICES SHOWN ON THIS PLAN.
- G. GYPSUM BOARD CEILINGS TO BE PAINTED P-1 U.N.O.

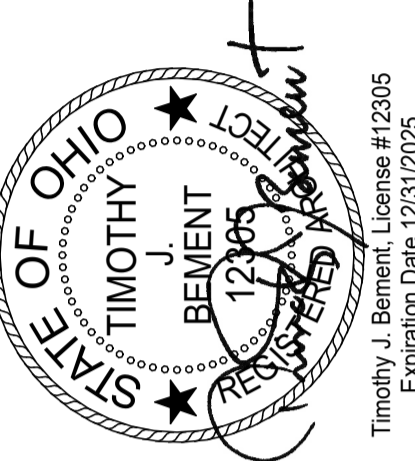


E1 FIRST FLOOR DEMO REFLECTED CEILING PLAN - PHASE 1
1/8" = 1'-0"



E3 FIRST FLOOR REFLECTED CEILING PLAN - PHASE 1
1/8" = 1'-0"

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TITLE FIRST FLOOR REFLECTED CEILING PLAN - PHASE 1	
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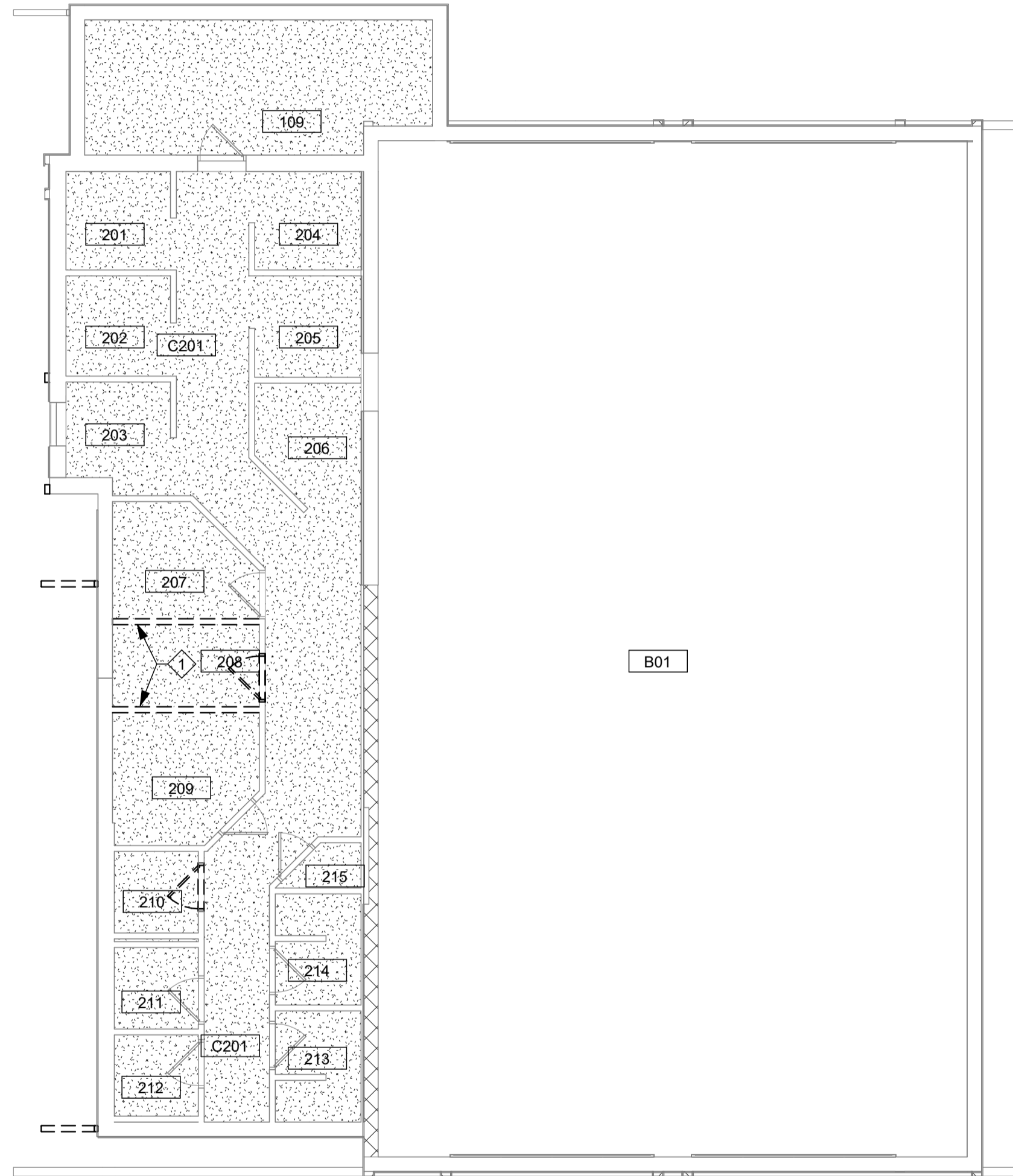
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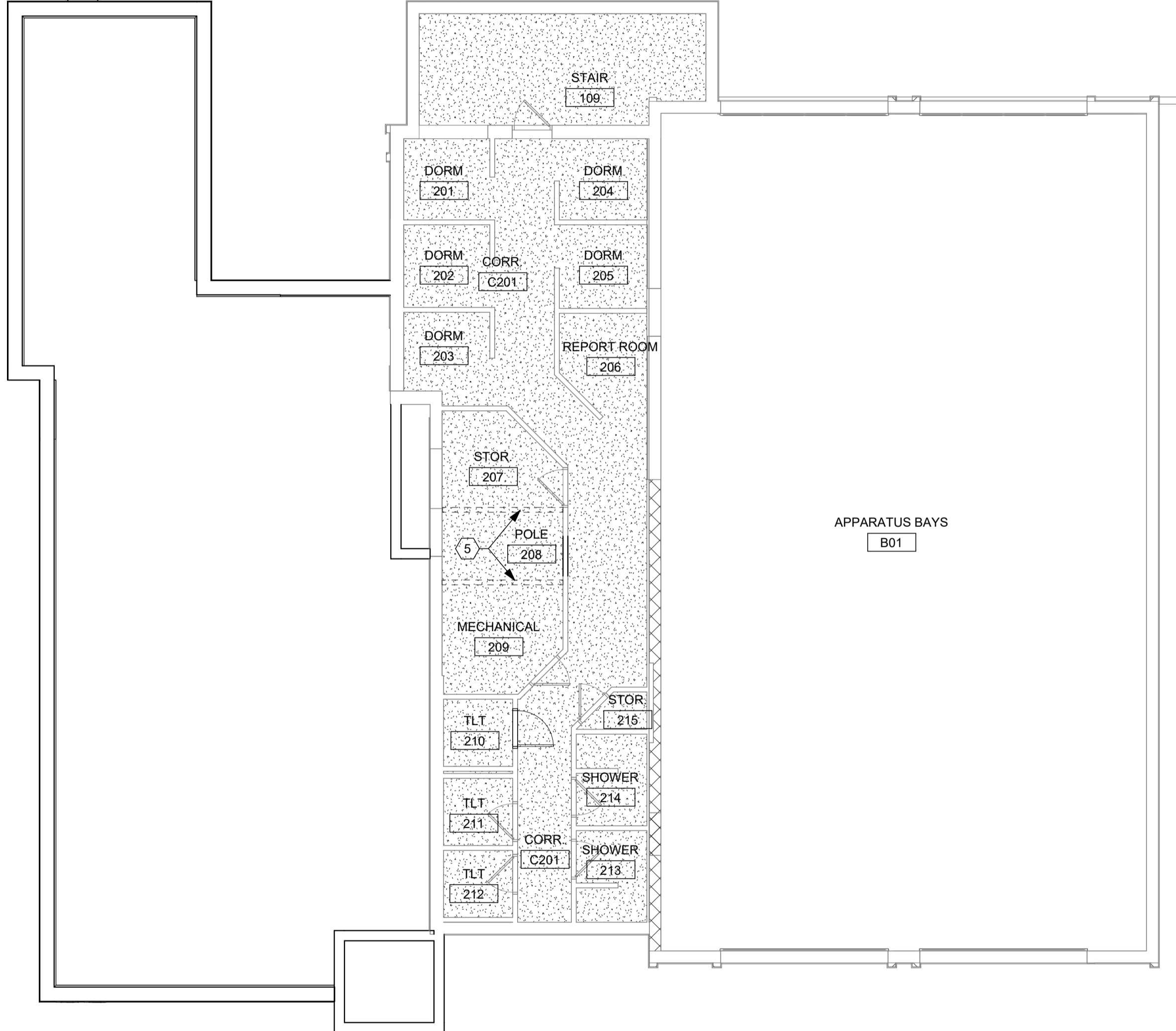
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E1 SECOND FLOOR DEMO REFLECTED CEILING PLAN - PHASE 1
1/8" = 1'-0"



E3 SECOND FLOOR REFLECTED CEILING PLAN - PHASE 1
1/8" = 1'-0"

DEMOLITION NOTES

- ⓓ INDICATES DEMOLITION NOTE.
- 1 DEMO WALL.
- 2 REMOVE EXISTING APC AND GRID.
- 3 REMOVE NECESSARY ELEMENTS OF FIRE POLE ENCLOSURE FOR INSTALL OF NEW CEILING.

CONSTRUCTION NOTES

- ⓓ INDICATES CONSTRUCTION NOTE.
- NOT ALL NOTES APPLY TO THIS SHEET.
- 1 SHADED AREA: CEILING TYPE C1, U.L. NO. 263 RATED CEILING MOUNTED TO UNDERSIDE OF TRUSSES REQUIRED IN R-2 SLEEPING AREA.
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- 4 PREMANUFACTURED METAL AWNING. REFER TO SHEET A5.01 FOR DETAILS.
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- 6 OPEN TO STRUCTURE ABOVE. REFER TO FINISH SCHEDULE.
- 7 REFER TO STRUCTURAL DRAWINGS FOR DEMO OF PORTION OF WALL. PAINT TO MATCH EXISTING.
- 8 EXISTING SOFFIT TO REMAIN. PAINT P-5.
- 9 NEW SOFFIT TO ALIGN WITH EXISTING SOFFIT. PAINT P-1.
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- 12 EXISTING CEILING TO REMAIN. PATCH AND REPAIR AS NEEDED. PAINT P-1.
- 13 PROVIDE AND INSTALL NEW APC CEILING AND GRID.
- 14 NEW GYP. BD. SOFFIT. REFER TO INTERIOR ELEVATIONS FOR HEIGHT. COORDINATE WITH SELECTED STEEL CASEWORK SUPPLIER STANDARD SIZES TO MAINTAIN 18" MIN. BETWEEN UPPER AND BASE CABINETS.
- 15 PATCH AND PAINT EXISTING GYP. BD. CEILING P-1.

GENERAL NOTES

- A. REFER TO ROOM FINISH SCHEDULE, MATERIALS LEGEND, AND SPECIFICATIONS FOR CEILING TYPES AND FINISHES.
- B. LAYOUT GRIDS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES; BORDER TILES TO BE 3" MINIMUM U.N.O. INSTALL EDGE MOLDING AT PERIMETER U.N.O.
- C. REFER TO MEP DRAWINGS FOR DEVICE DESCRIPTIONS.
- D. ALL EXPOSED GYPSUM BOARD SURFACES SHALL BE PAINTED.
- E. EXPOSED STRUCTURE SHALL BE PAINTED PER SPECIFICATIONS.
- F. GENERAL CONTRACTOR TO COORDINATE THE LOCATION OF ALL ALERTING SYSTEM DEVICES WITH THE DEVICES SHOWN ON THIS PLAN.
- G. GYPSUM BOARD CEILINGS TO BE PAINTED P-1 U.N.O.

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SHEET NO.	

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DEMOLITION NOTES

⊠ INDICATES DEMOLITION NOTE.

- 1 DEMO WALL.
- 2 REMOVE EXISTING APC AND GRID.
- 3 REMOVE NECESSARY ELEMENTS OF FIRE POLE ENCLOSURE FOR INSTALL OF NEW CEILING.

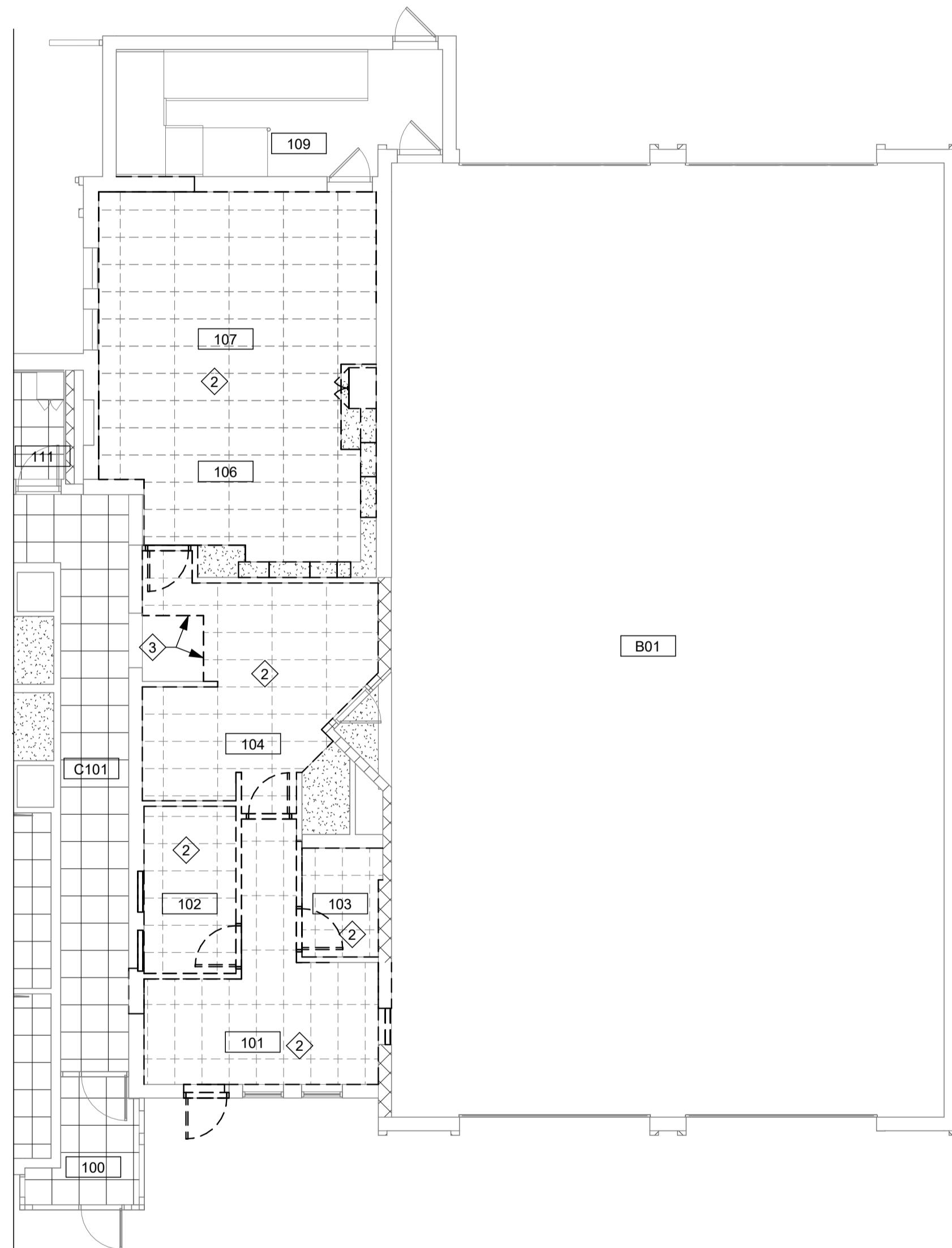
CONSTRUCTION NOTES

Ⓞ INDICATES CONSTRUCTION NOTE.
NOT ALL NOTES APPLY TO THIS SHEET.

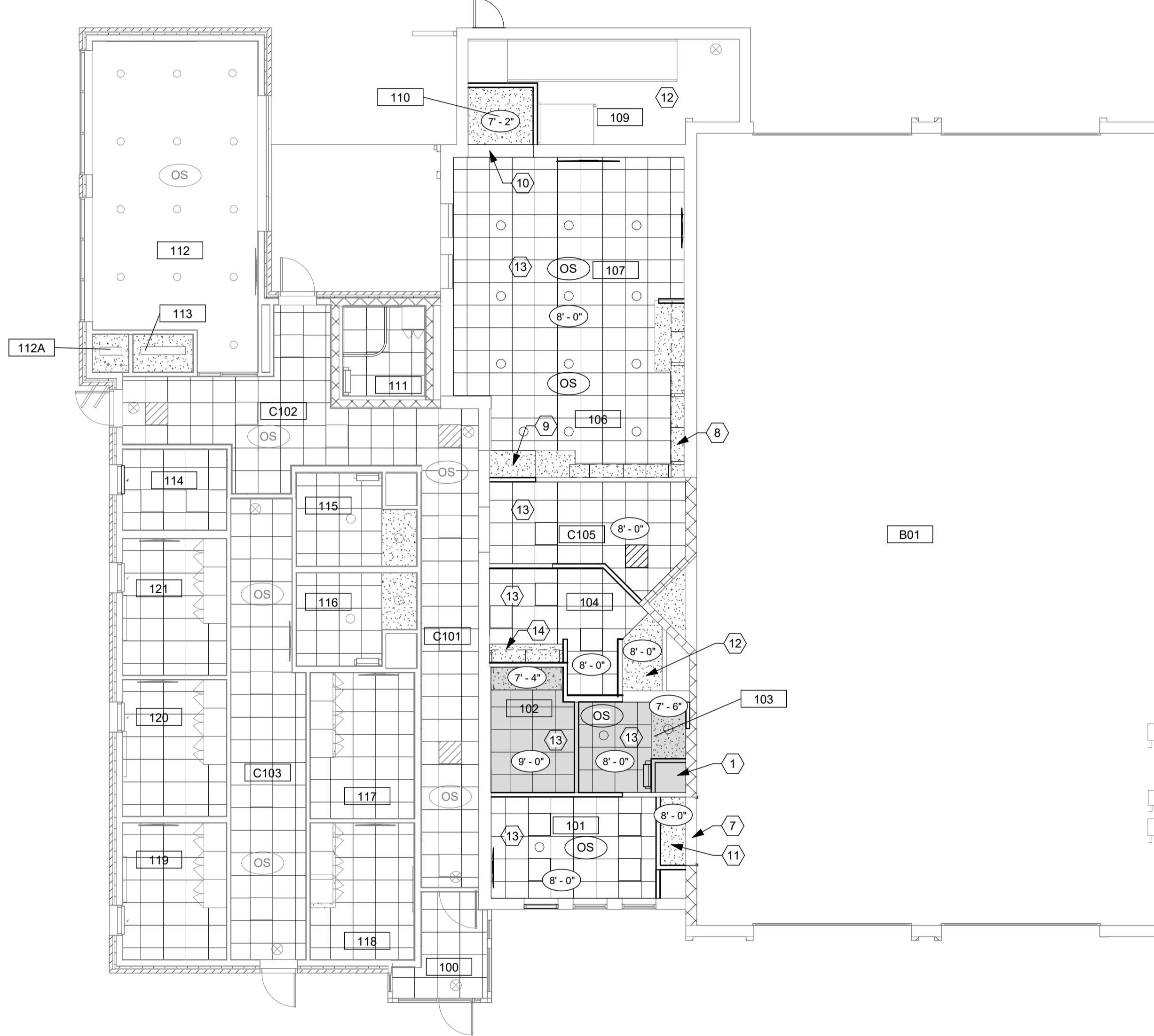
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- 7 REFER TO STRUCTURAL DRAWINGS FOR DEMO OF PORTION OF WALL. PAINT TO MATCH EXISTING.
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GENERAL NOTES

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- C. REFER TO MEP DRAWINGS FOR DEVICE DESCRIPTIONS.
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- E. EXPOSED STRUCTURE SHALL BE PAINTED PER SPECIFICATIONS.
- F. GENERAL CONTRACTOR TO COORDINATE THE LOCATION OF ALL ALERTING SYSTEM DEVICES WITH THE DEVICES SHOWN ON THIS PLAN.
- G. GYPSUM BOARD CEILINGS TO BE PAINTED P-1 U.N.O.



E1 FIRST FLOOR DEMO REFLECTED CEILING PLAN - PHASE 2
1/8" = 1'-0"



E3 FIRST FLOOR REFLECTED CEILING PLAN - PHASE 2
1/8" = 1'-0"



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DEMOLITION NOTES

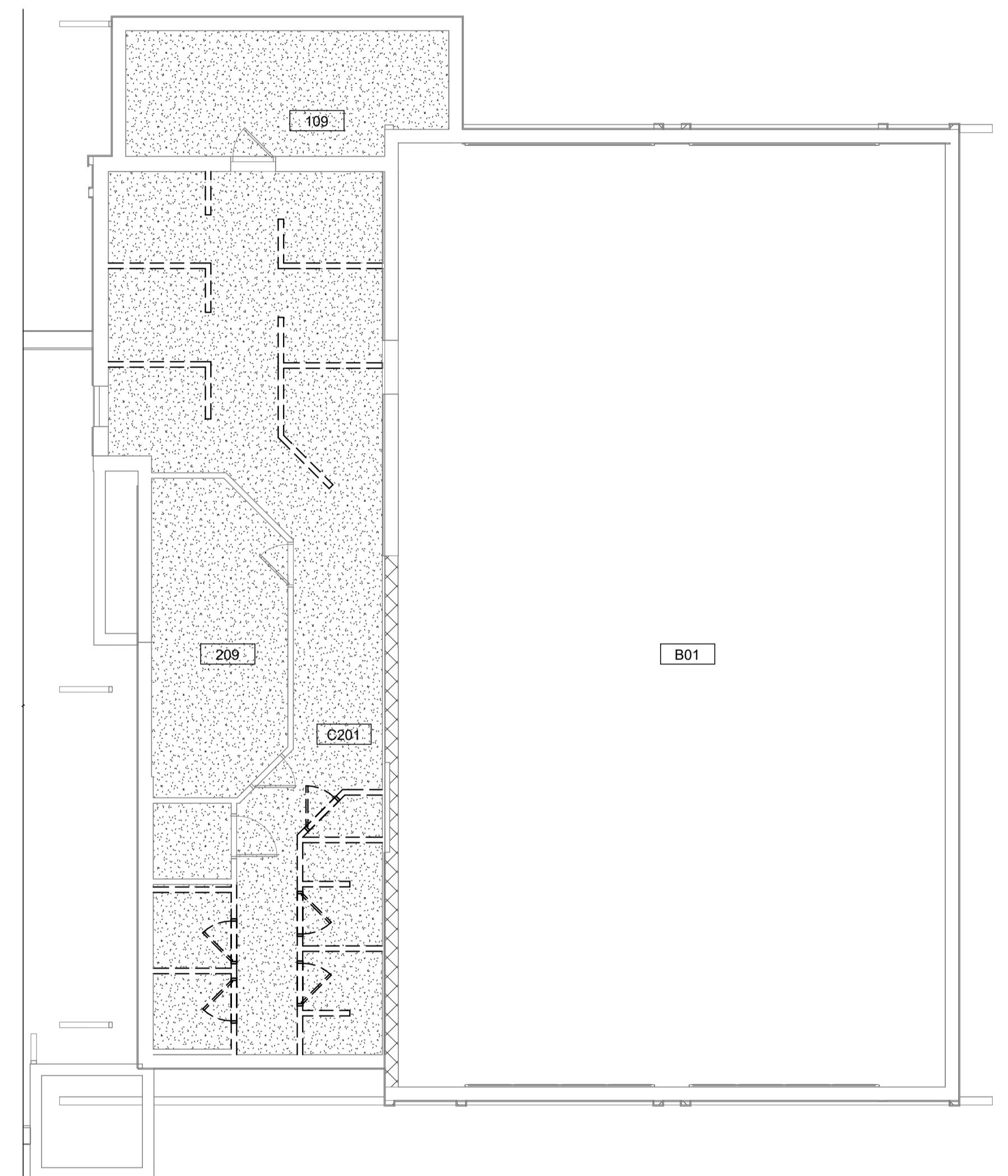
- Ⓧ INDICATES DEMOLITION NOTE.
- 1 DEMO WALL.
- 2 REMOVE EXISTING APC AND GRID.
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CONSTRUCTION NOTES

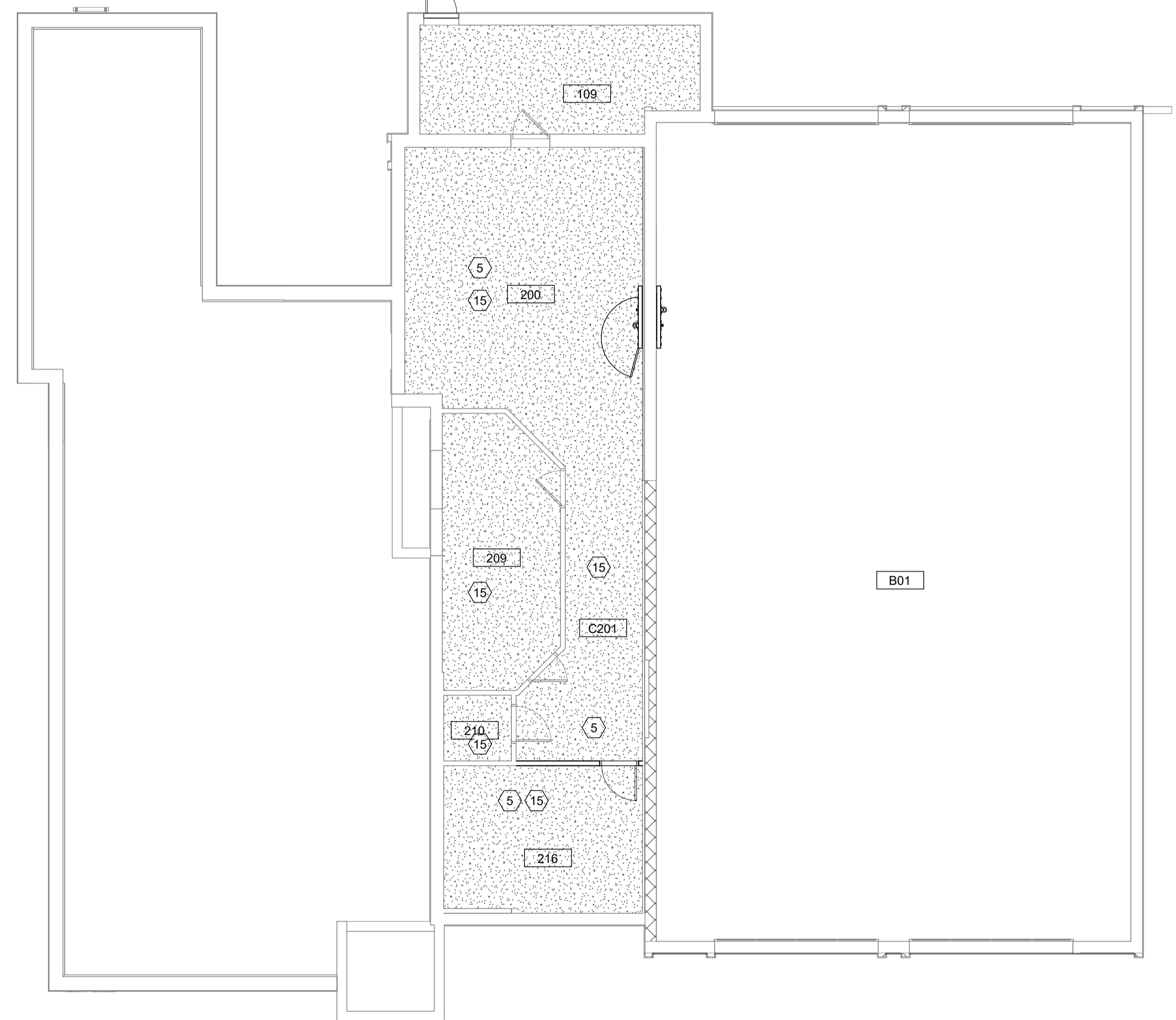
- Ⓞ INDICATES CONSTRUCTION NOTE.
NOT ALL NOTES APPLY TO THIS SHEET.
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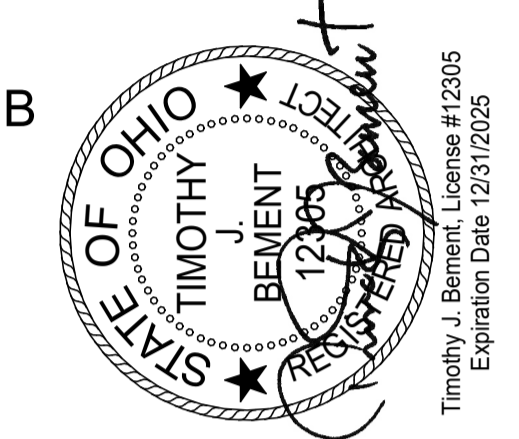


E1 SECOND FLOOR DEMO REFLECTED CEILING PLAN - PHASE 2
1/8" = 1'-0"



E3 SECOND FLOOR REFELCTED CEILING PLAN - PHASE 2
1/8" = 1'-0"

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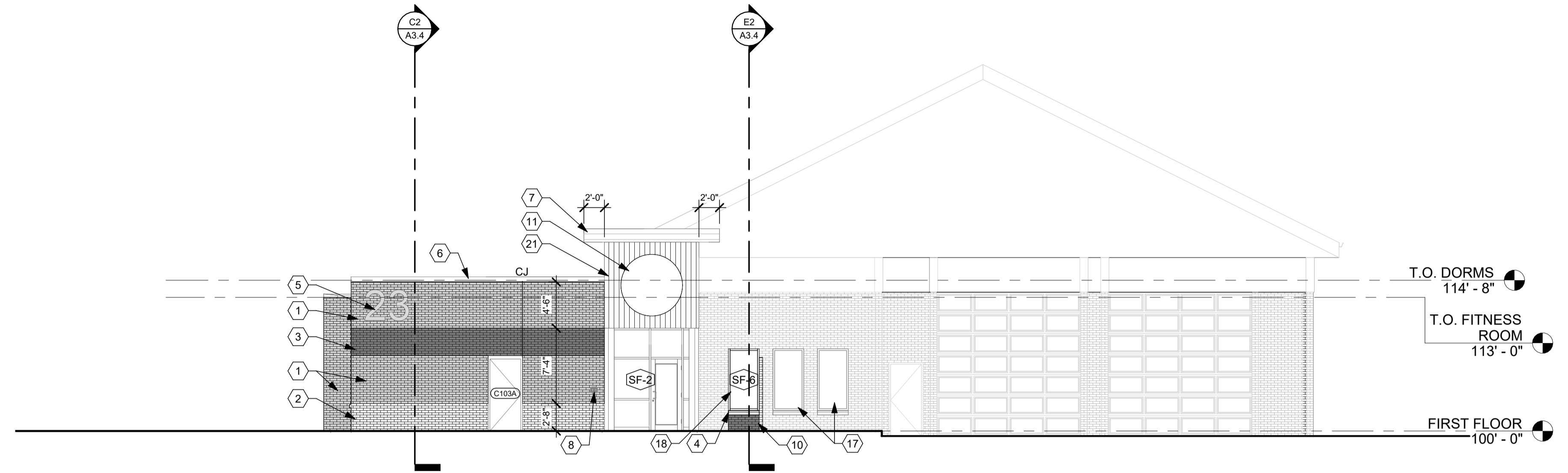
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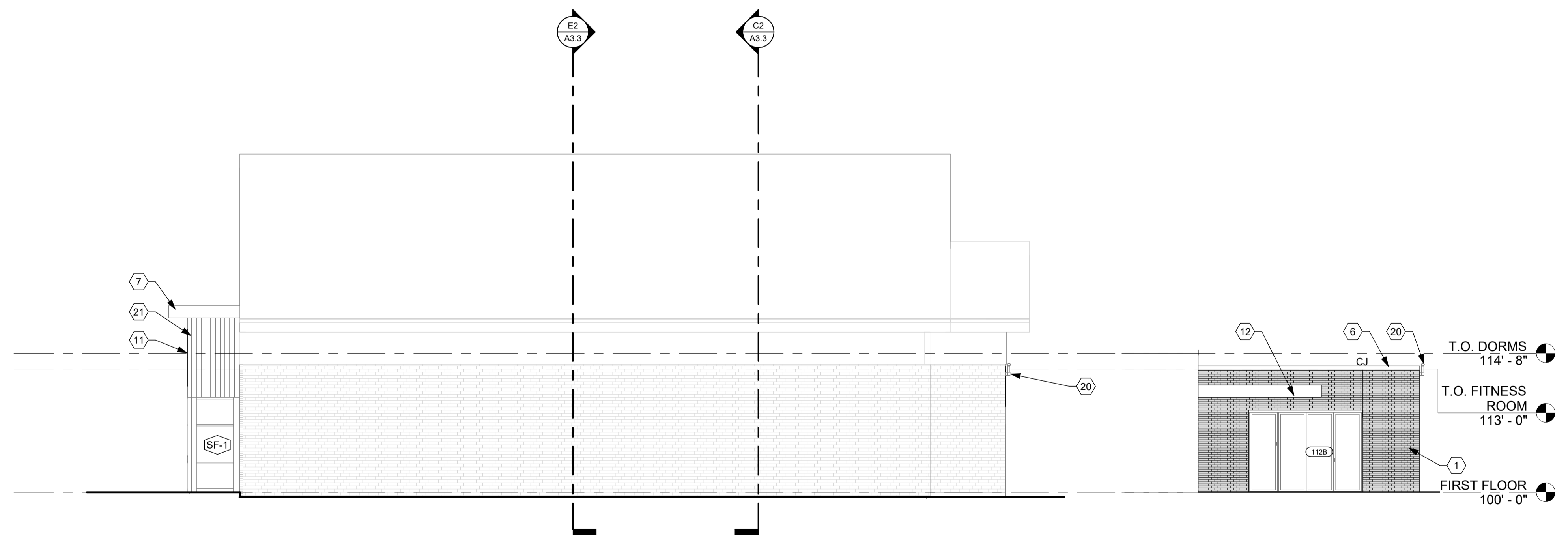
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SHEET NO. A2.4	

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C2 EAST ELEVATION
1/8" = 1'-0"



F2 NORTH ELEVATION
1/8" = 1'-0"

F5 FITNESS WING PARTIAL NORTH ELEVATION
1/8" = 1'-0"

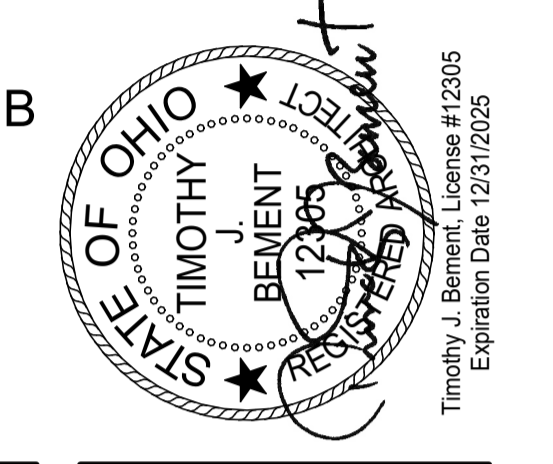
CONSTRUCTION NOTES

- ⓪ INDICATES CONSTRUCTION NOTE.
- NEW MODULAR BRICK VENEER COLOR 1.
 - NEW MODULAR BRICK VENEER COLOR 2.
 - NEW MODULAR BRICK VENEER COLOR 3.
 - CAST STONE WINDOW SILL. MATCH EXISTING.
 - METAL DIMENSIONAL LETTERING. REFER TO A5.4 FOR DETAILS.
 - PREFINISHED GALVALUME COPING.
 - PREFINISHED GALVALUME FASCIA. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
 - KNOX BOX MOUNTED AT 48" A.F.F.
 - NEW 5" PREFINISHED GALVALUME GUTTER.
 - INFILL PORTION OF WALL WITH MODULAR BRICK VENEER. MATCH EXISTING BRICK VENEER.
 - METAL WALL SIGN. REFER TO A5.01 FOR DETAILS.
 - PREMANUFACTURED METAL AWNING. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS. REFER TO SHEET A5.1 FOR DETAILS
 - NEW 4"x6" PREFINISHED GALVALUME DOWNSPOUT. REFER TO A5.2 FOR DOWNSPOUT ADAPTOR DETAILS.
 - EXISTING DOWNSPOUT TO REMAIN.
 - NEW 4"x6" PREFINISHED GALVALUME DOWNSPOUT TO DRAIN ONTO NEW FLAT ROOF. INSTALL INTO EXISTING OR NEW GUTTER.
 - EXISTING WINDOW TO REMAIN.
 - EXISTING WINDOWS TO REMAIN.
 - NEW STOREFRONT WINDOW TO MATCH ADJACENT FRAMES AND FINISH.
 - TRAINING OPENING @ 0'-6" ABOVE LANDING ON INTERIOR. 1/16" DIAMOND PLATE FROM LANDING TO BOTTOM OF FRAME AND 24" ABOVE FRAME ON INTERIOR. 1/16" DIAMOND PLATE 24" BELOW FRAME ON EXTERIOR. REFER TO DOOR SCHEDULE FOR DETAILS.
 - PARAPET GUARDRAIL. REFER TO ROOF PLAN FOR DETAILS.
 - VERTICAL METAL PLANK SYSTEM.

GENERAL NOTES

- "CJ" = MASONRY CONTROL JOINT.
- FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.
- ALL BRICK VENEER TO BE 1/2 RUNNING BOND.

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GENERAL NOTES	
A.	"CJ" = MASONRY CONTROL JOINT.
B.	FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.
C.	ALL BRICK VENEER TO BE 1/2 RUNNING BOND.

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TITLE EXTERIOR ELEVATIONS	

SHEET NO.
A3.1

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A

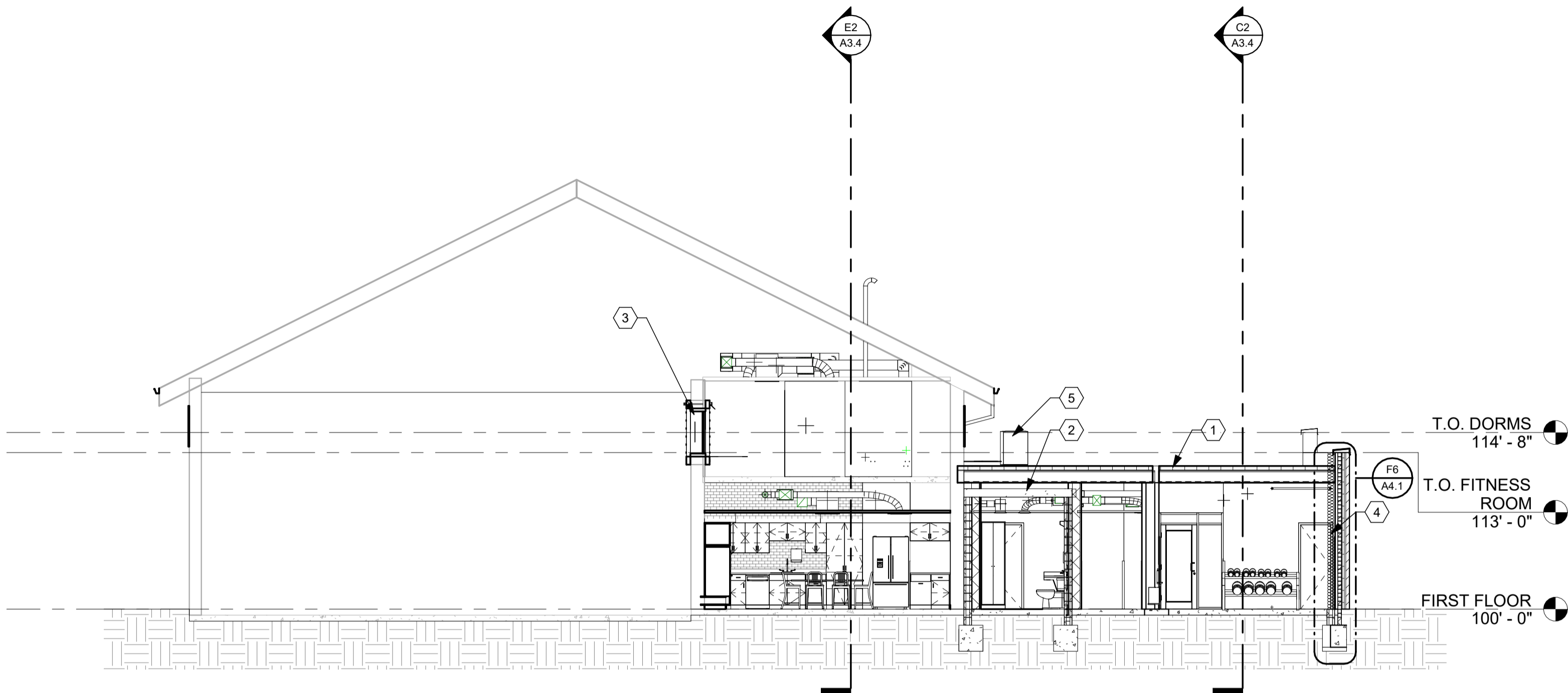
B

C

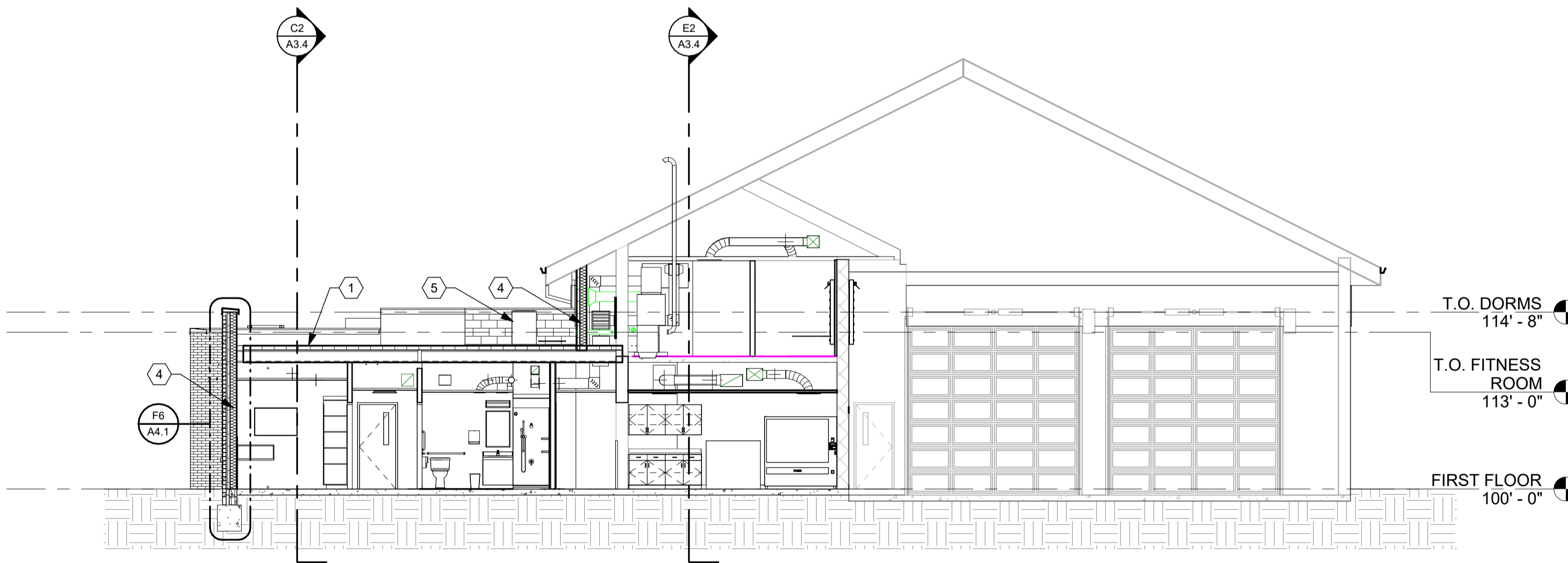
D

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F



C2 BUILDING SECTION A
1/8" = 1'-0"



E2 BUILDING SECTION B
1/8" = 1'-0"

CONSTRUCTION NOTES

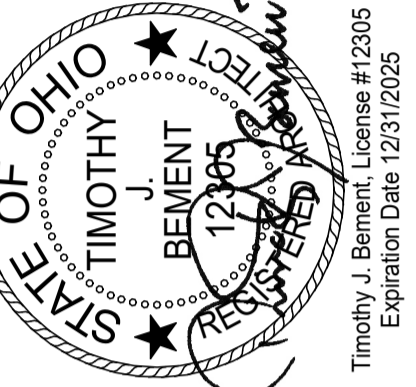
- (00) INDICATES CONSTRUCTION NOTE.
- 1 MEMBRANE ROOF OVER R20 MIN RIGID INSULATION.
- 2 RATED ASSEMBLY OVER STORM SHELTER.
- 3 TRAINING WINDOW. REFER TO SHEET A0.10 FOR DETAILS
- 4 UNFACED GLASS FIBER BATT INSULATION IN METAL STUD WALL (R19).
- 5 ROOF TOP MECHANICAL EQUIPMENT. REFER TO HVAC DRAWINGS AND SPECIFICATIONS.

GENERAL NOTES

- A. MEP AND STRUCTURAL ITEMS SHOWN FOR REFERENCE. REFER TO MEP AND STRUCTURAL SHEETS FOR FURTHER DETAILS.
- B. SECTIONS SHOW FINISHED WORK. REFER TO SHEETS A1.1, A1.2, A1.3, A1.4, A2.1, A2.2, A2.3, AND A2.4 FOR PHASES OF WORK TO BE COMPLETED.

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TITLE
BUILDING SECTIONS

SHEET NO.
A3.3

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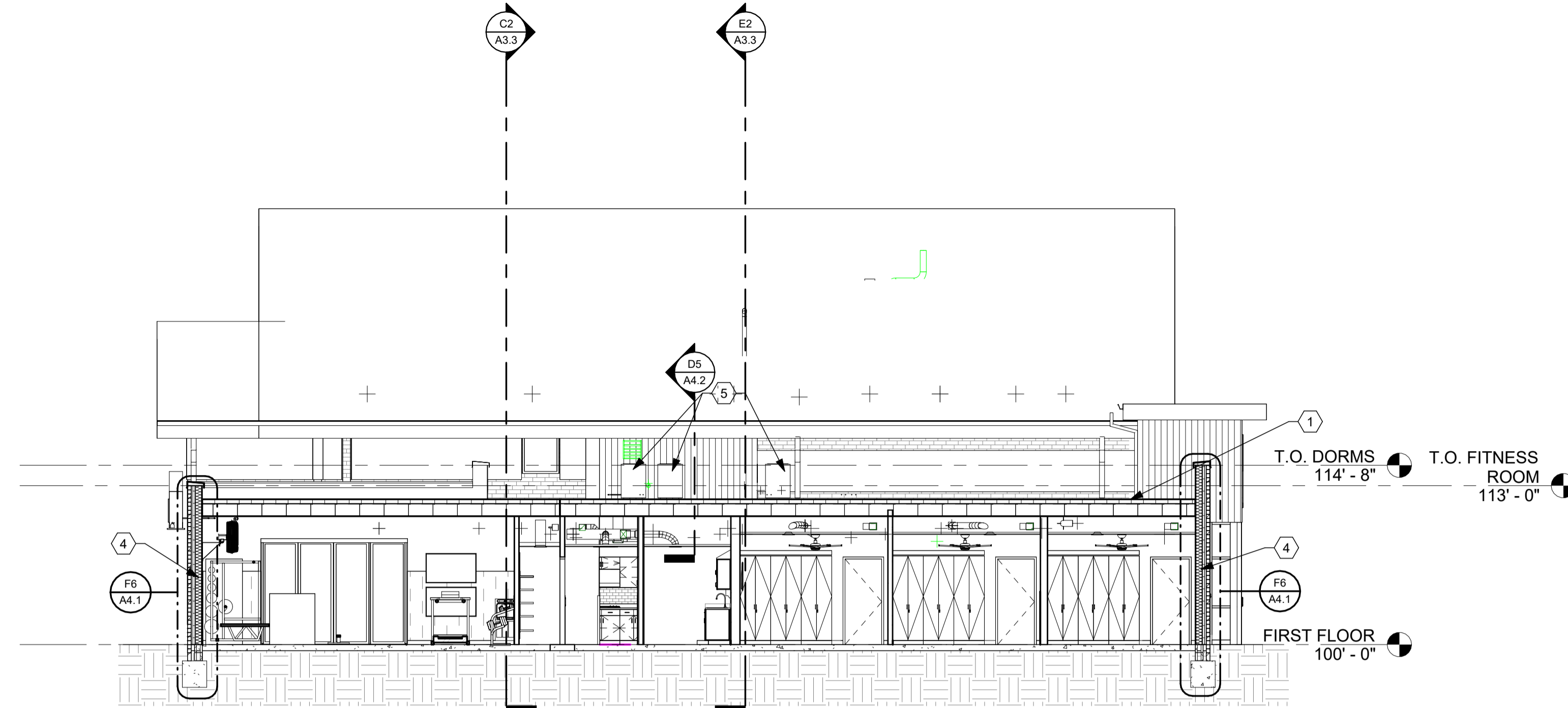
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C

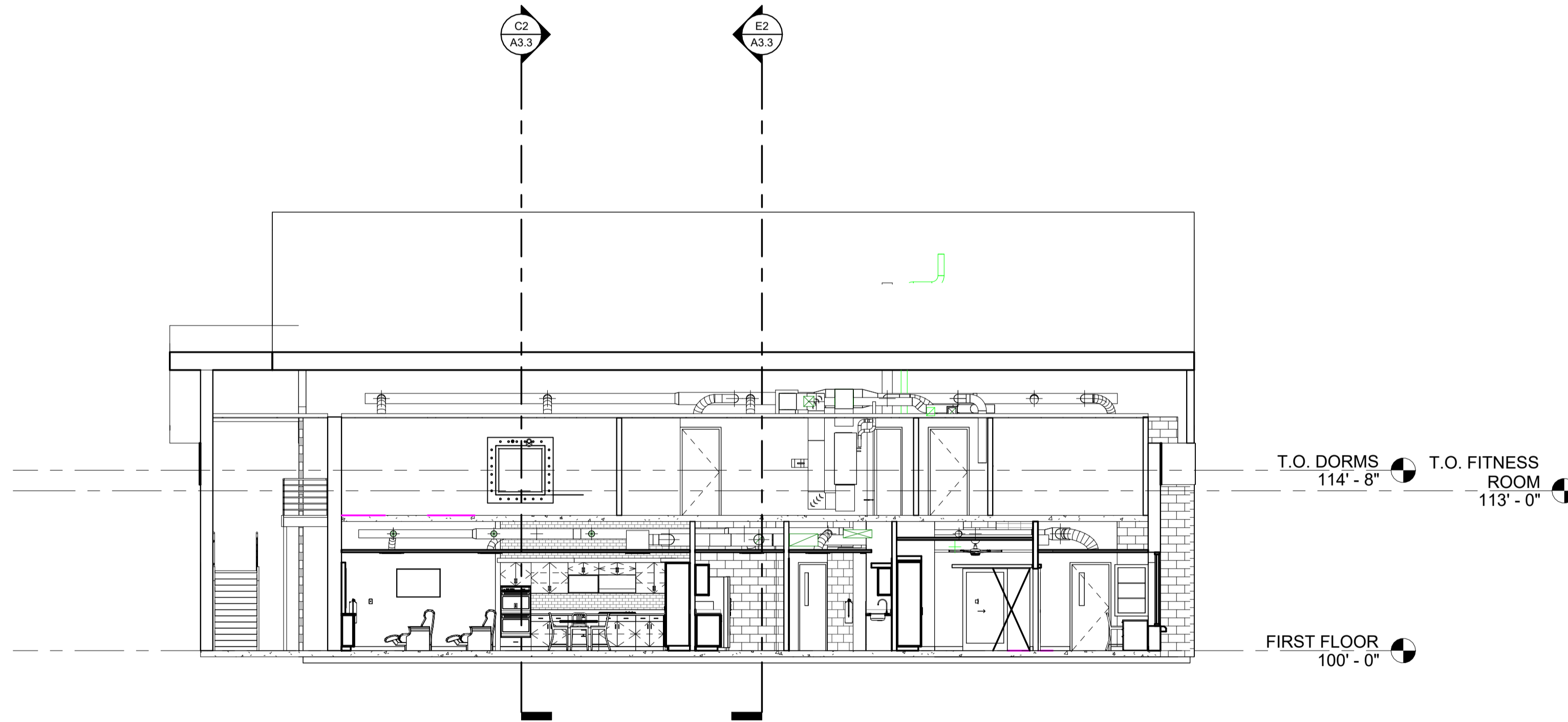
D

E

F



C2 BUILDING SECTION C
1/8" = 1'-0"



E2 BUILDING SECTION D
1/8" = 1'-0"

CONSTRUCTION NOTES

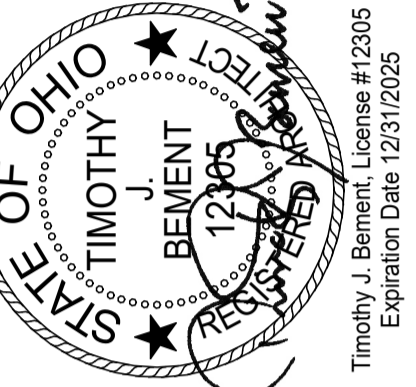
- 00 INDICATES CONSTRUCTION NOTE.
- 1 MEMBRANE ROOF OVER R20 MIN RIGID INSULATION.
- 2 RATED ASSEMBLY OVER STORM SHELTER.
- 3 TRAINING WINDOW. REFER TO SHEET A0.10 FOR DETAILS
- 4 UNFACED GLASS FIBER BATT INSULATION IN METAL STUD WALL (R19).
- 5 ROOF TOP MECHANICAL EQUIPMENT. REFER TO HVAC DRAWINGS AND SPECIFICATIONS.

GENERAL NOTES

- A. MEP AND STRUCTURAL ITEMS SHOWN FOR REFERENCE. REFER TO MEP AND STRUCTURAL SHEETS FOR FURTHER DETAILS.
- B. SECTIONS SHOW FINISHED WORK. REFER TO SHEETS A1.1, A1.2, A1.3, A1.4, A2.1, A2.2, A2.3, AND A2.4 FOR PHASES OF WORK TO BE COMPLETED.

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TITLE
BUILDING SECTIONS

SHEET NO.

A3.4

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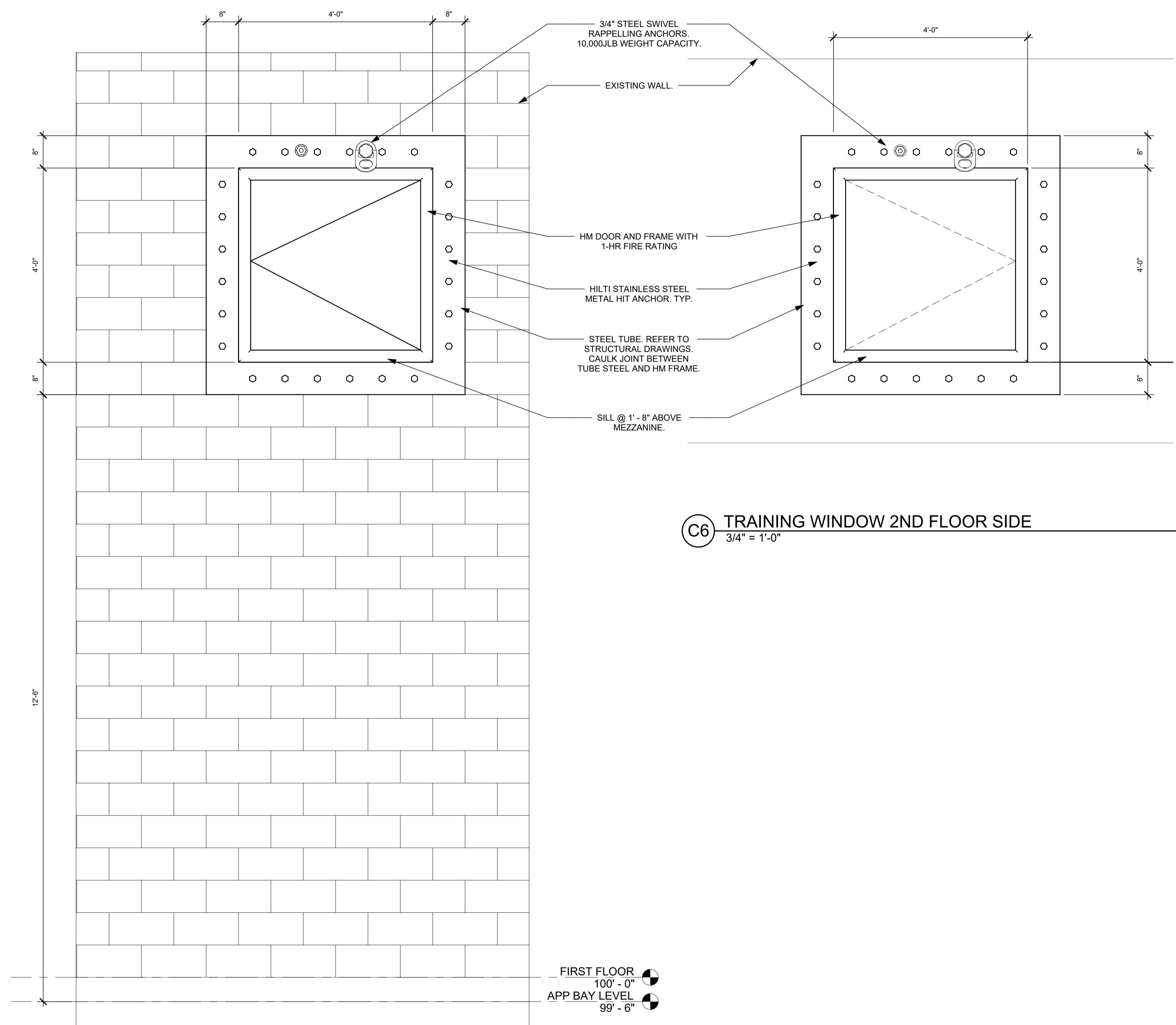
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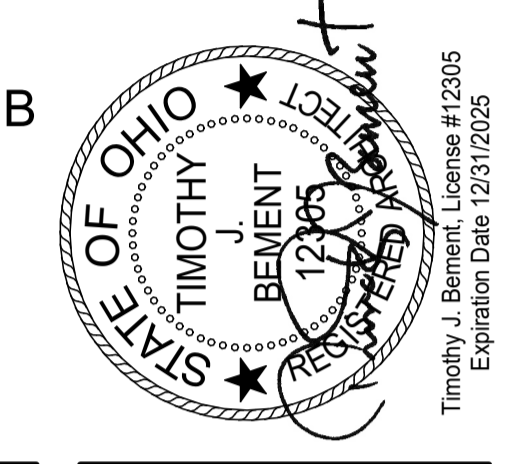
F



C6 TRAINING WINDOW 2ND FLOOR SIDE
3/4" = 1'-0"

C3 TRAINING WINDOW BAY SIDE
3/4" = 1'-0"

FIRST FLOOR
100' - 0"
APP BAY LEVEL
99' - 6"

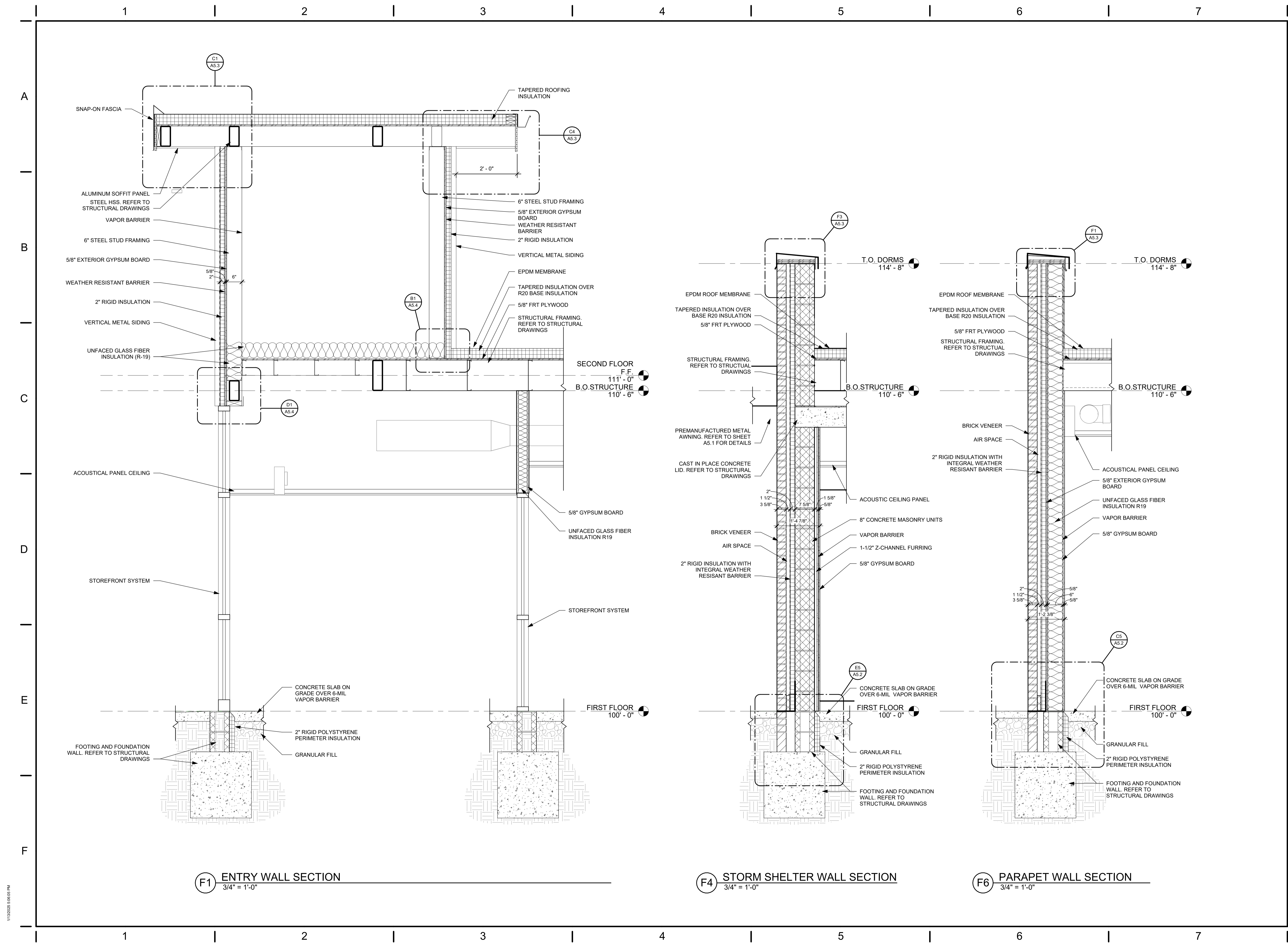


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**BUILDING SECTION
DETAILS**

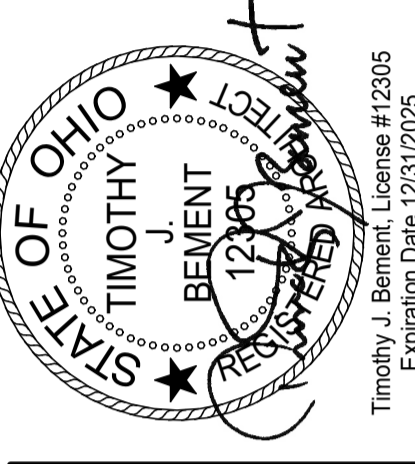
SHEET NO.
A3.5



(F1) ENTRY WALL SECTION
3/4" = 1'-0"

(F4) STORM SHELTER WALL SECTION
3/4" = 1'-0"

(F6) PARAPET WALL SECTION
3/4" = 1'-0"



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TITLE
WALL SECTIONS

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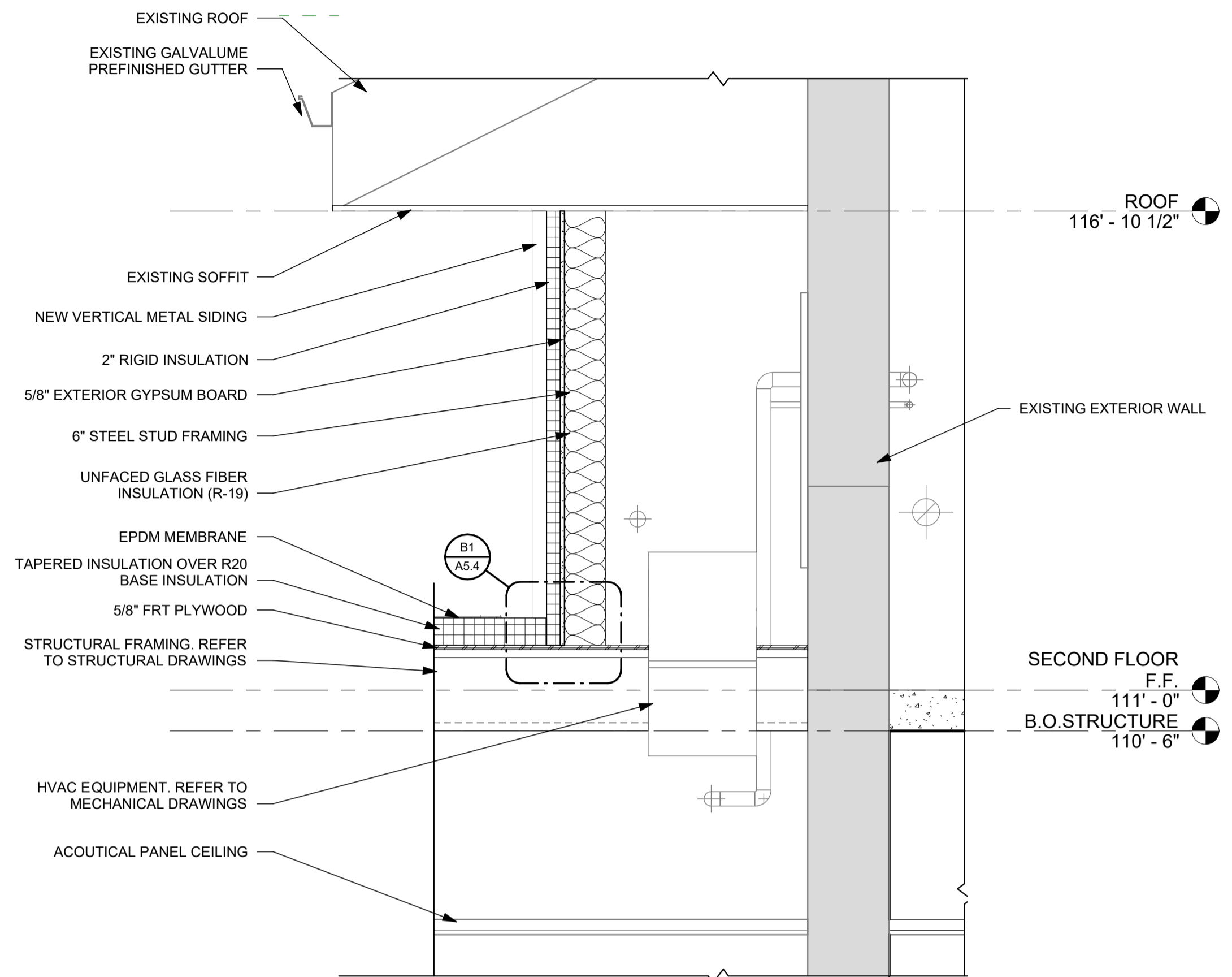
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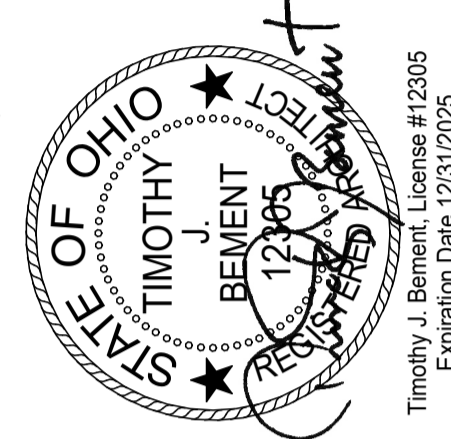
E

F



(D5) MECHANICAL ROOFTOP COVERING WALL SECTION
 3/4" = 1'-0"

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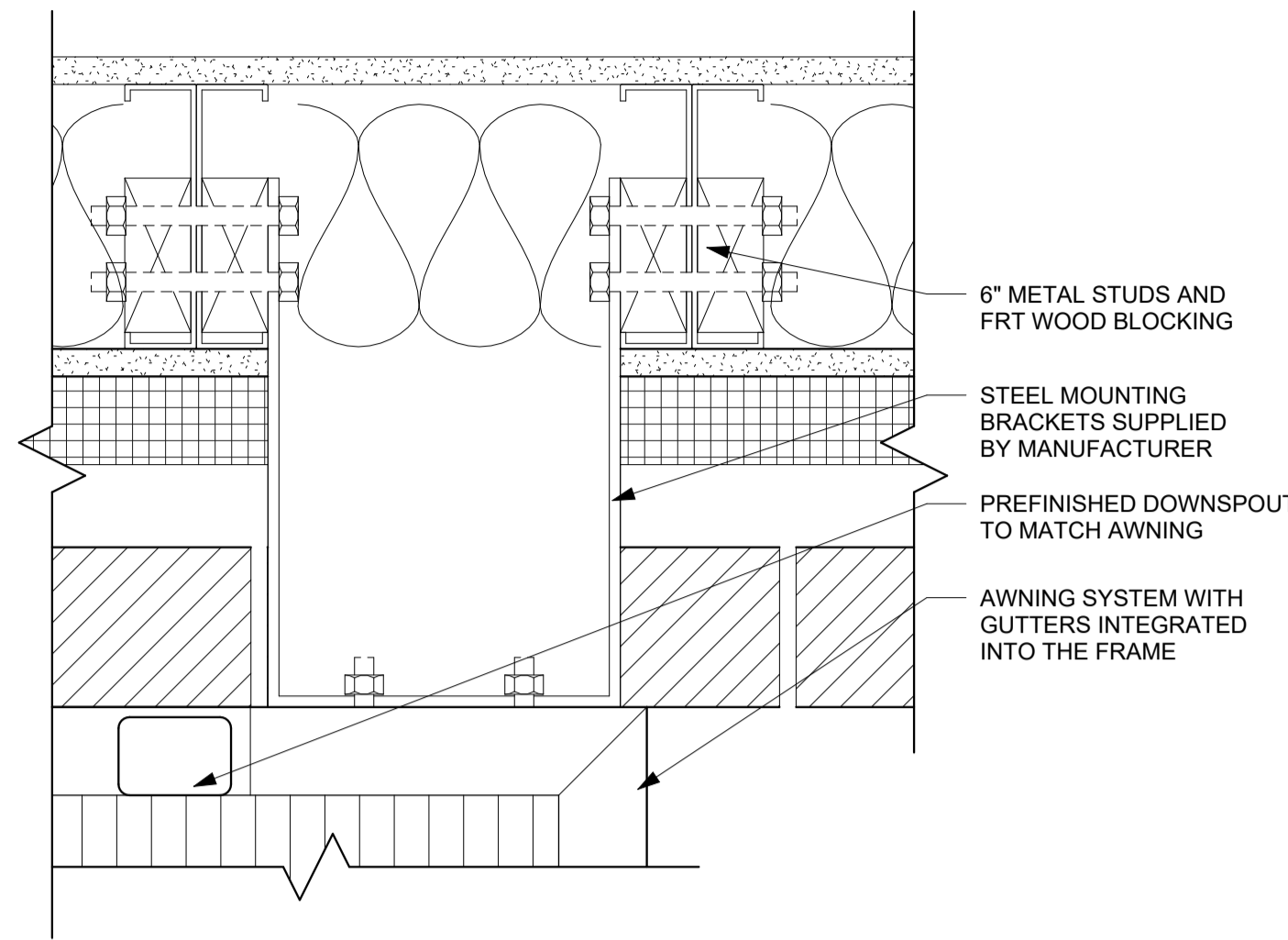
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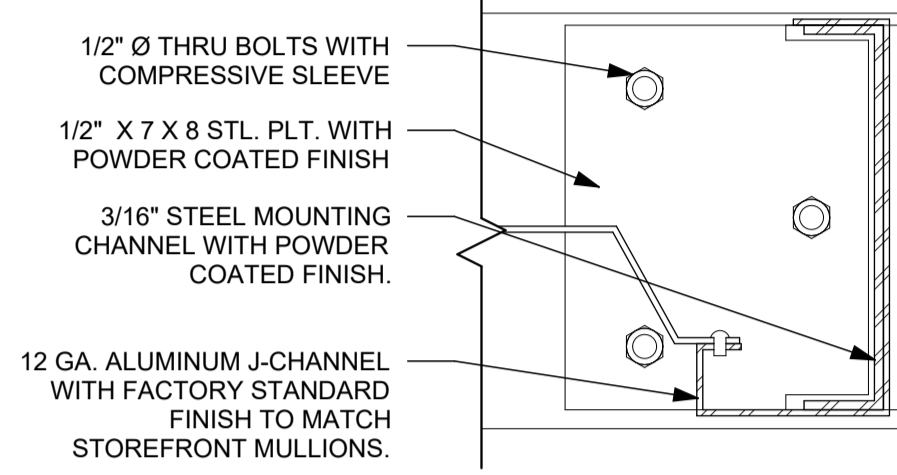
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 TITLE
WALL SECTIONS

SHEET NO.
A4.2

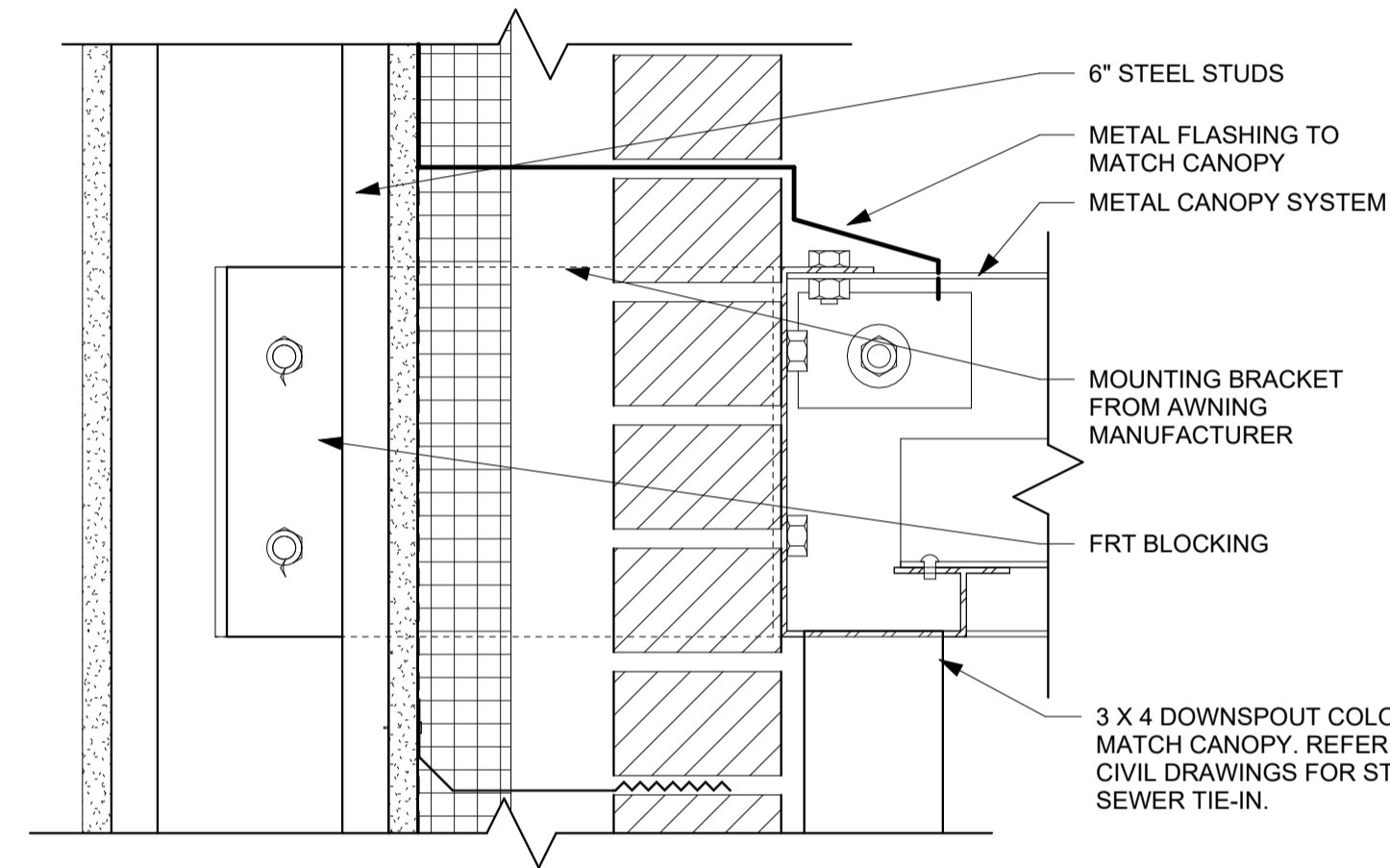
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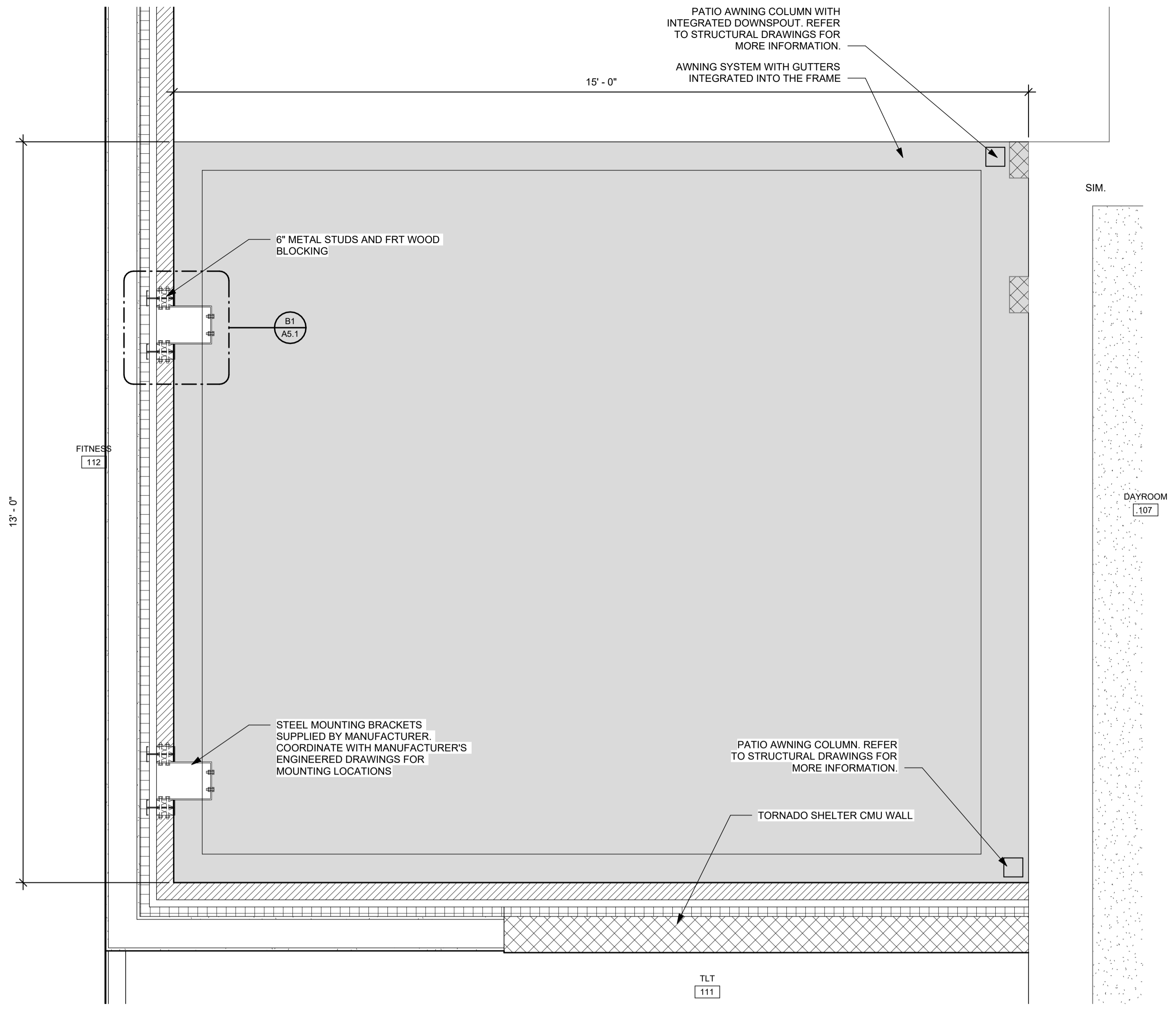
B1 CONNECTION DETAIL STUD WALL
3" = 1'-0"



B3 CONNECTION PLATE DETAIL
3" = 1'-0"



D1 AWNING SECTION - STUD WALL
3" = 1'-0"



D4 PATIO AWNING PLAN
3/4" = 1'-0"

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SHEET NO.
A5.1

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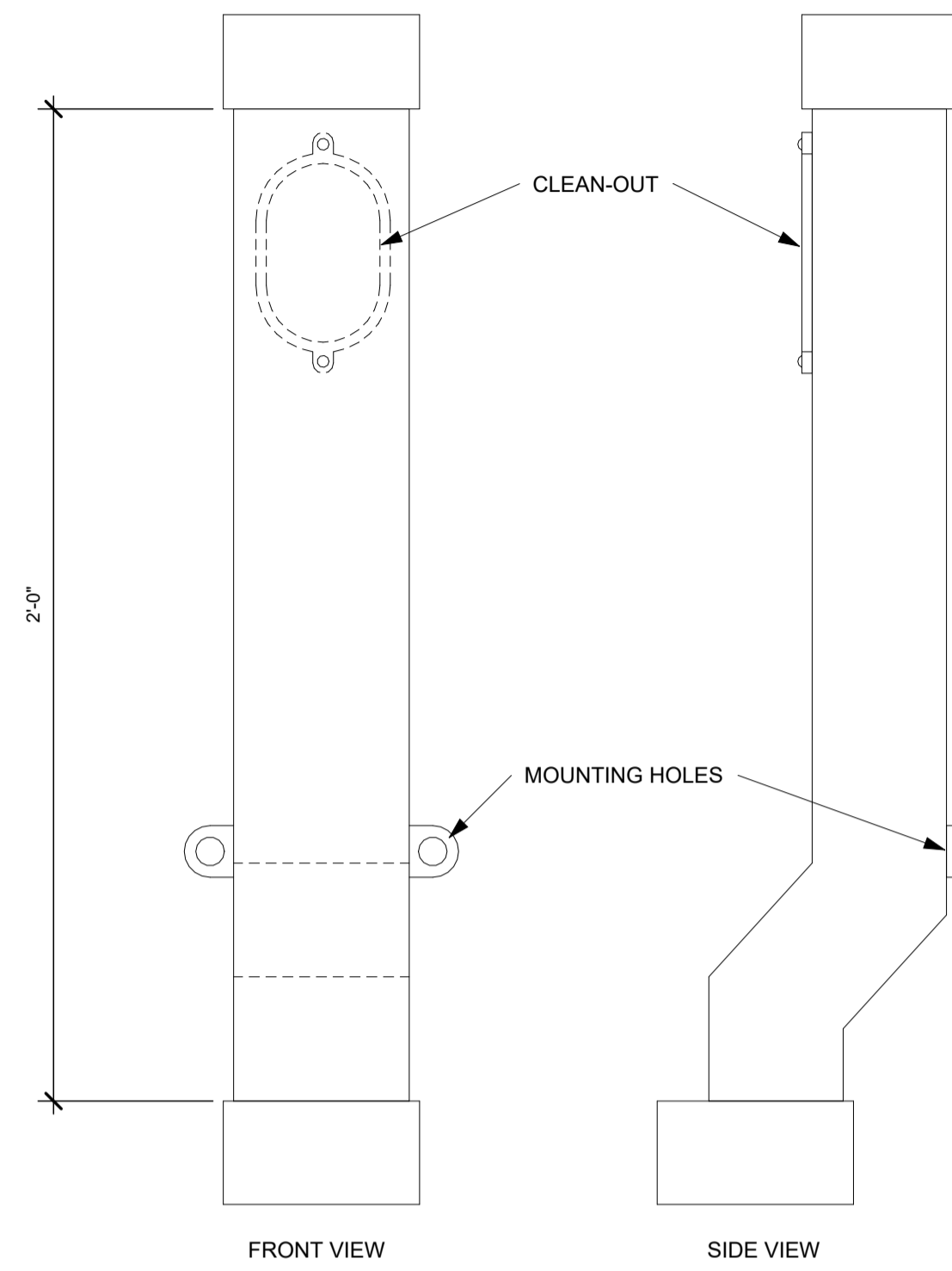
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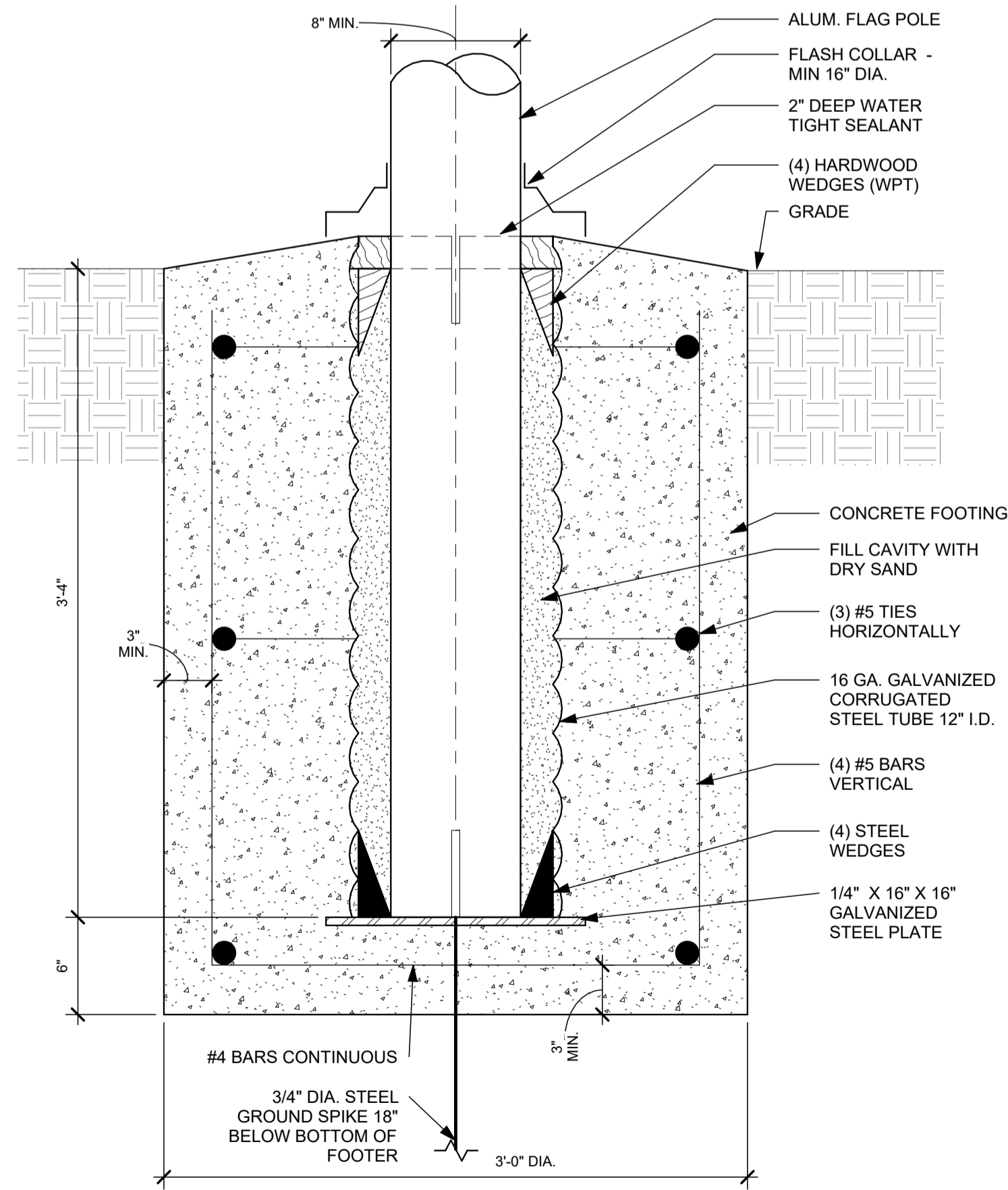
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7

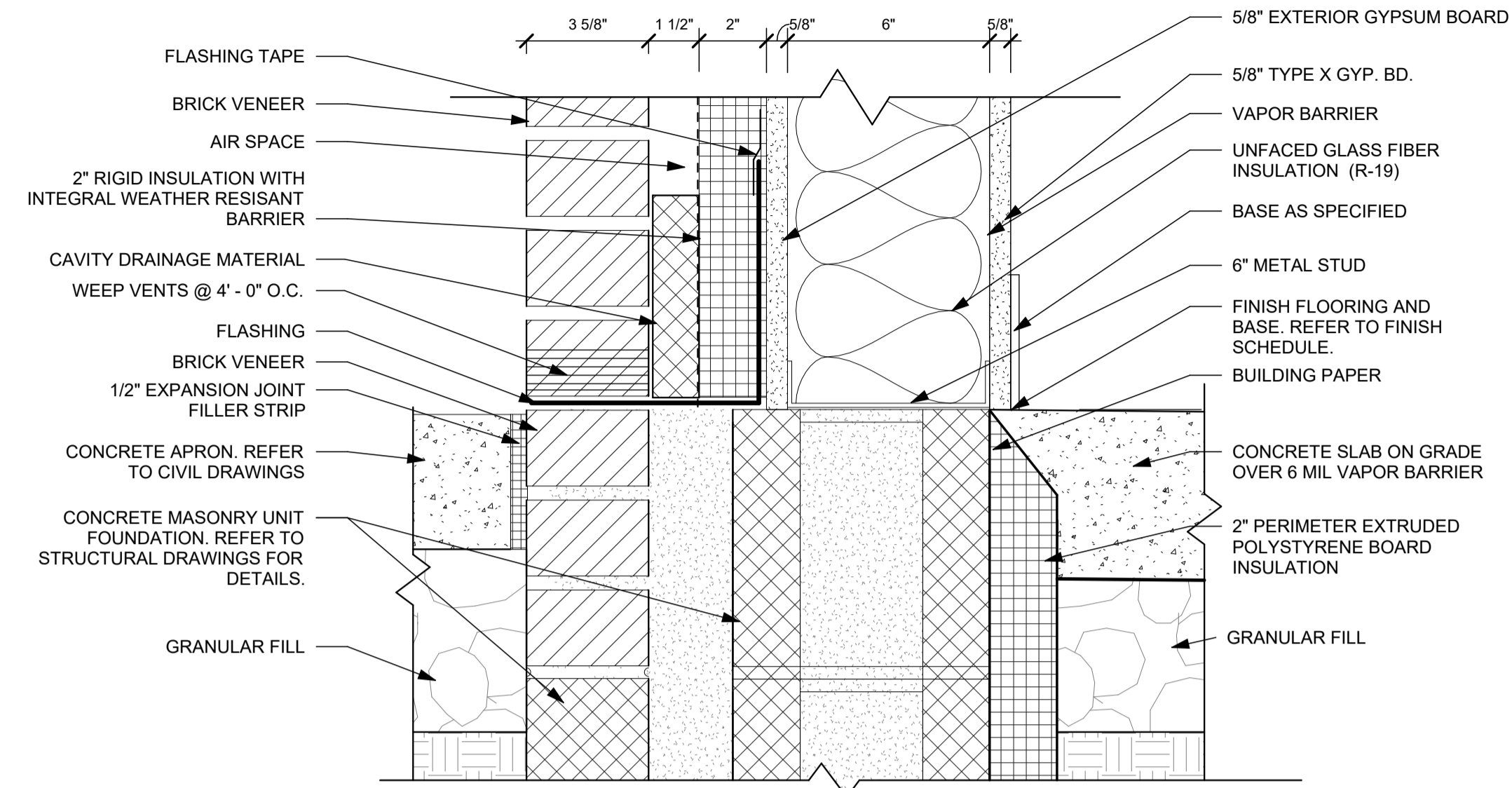
BASIS OF DESIGN: PIEDMONT MANUFACTURING, PIEDMONT PIPE DOWNSPUT - MODEL SO. OFFSETS AND SIZING TO BE COORDINATED WITH DOWNSPOUTS AND STORM PIPING.



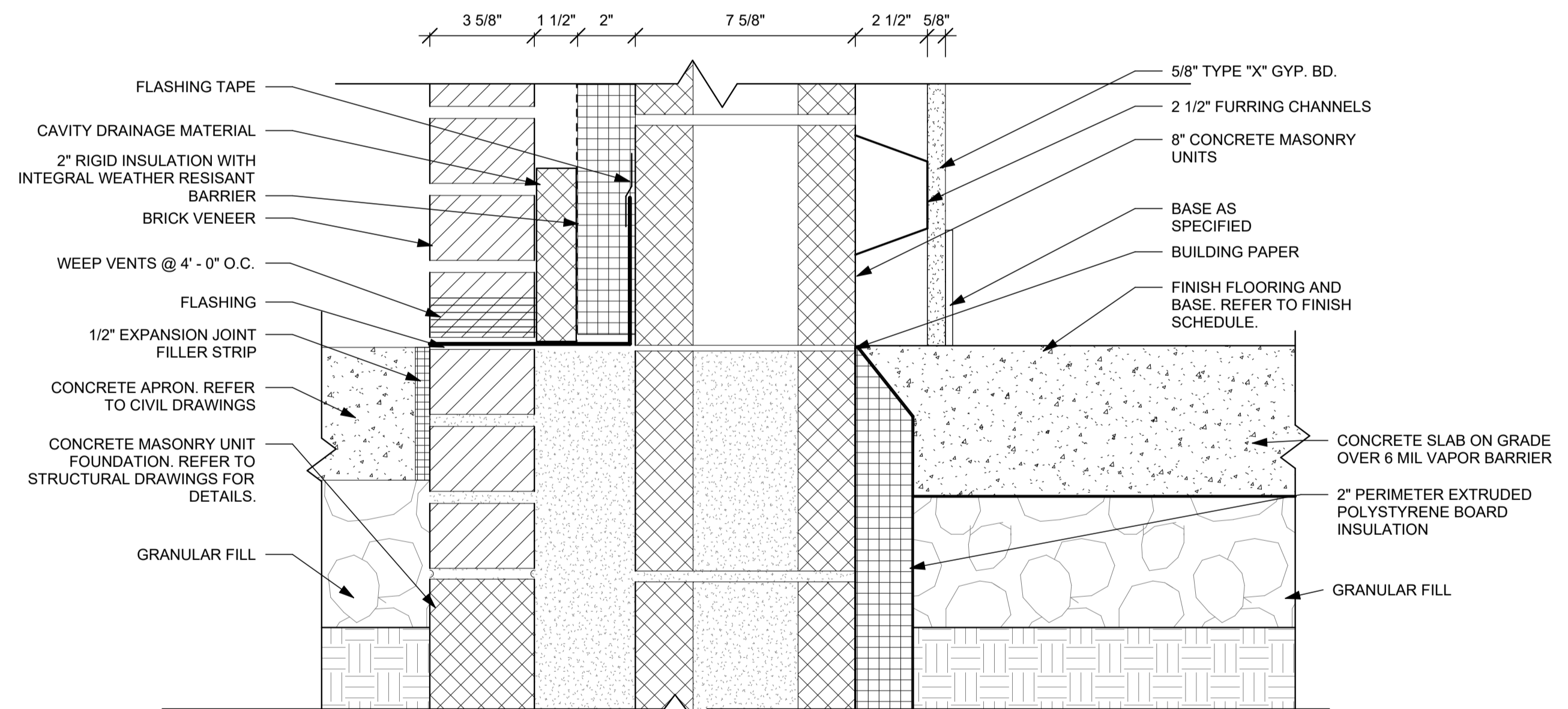
C2 DOWNSPOUT ADAPTOR DETAIL
3" = 1'-0"



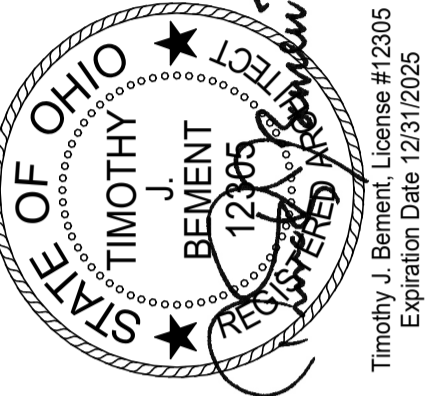
F2 FLAG POLE FOUNDATION DETAIL
1 1/2" = 1'-0"



C5 FOUNDATION DETAIL (METAL STUD & BRICK)
3" = 1'-0"



E5 FOUNDATION DETAIL (STORM SHELTER)
3" = 1'-0"



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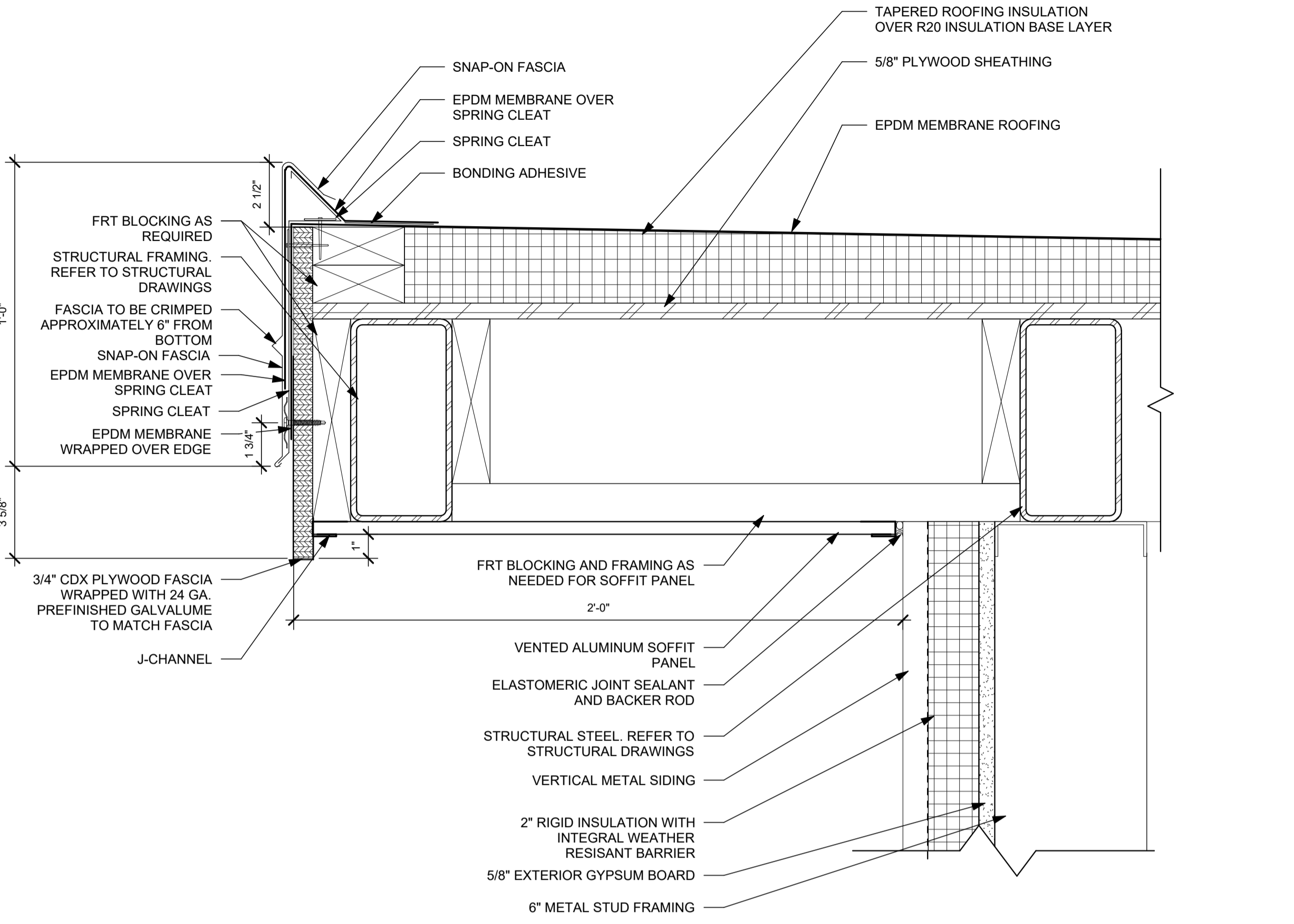
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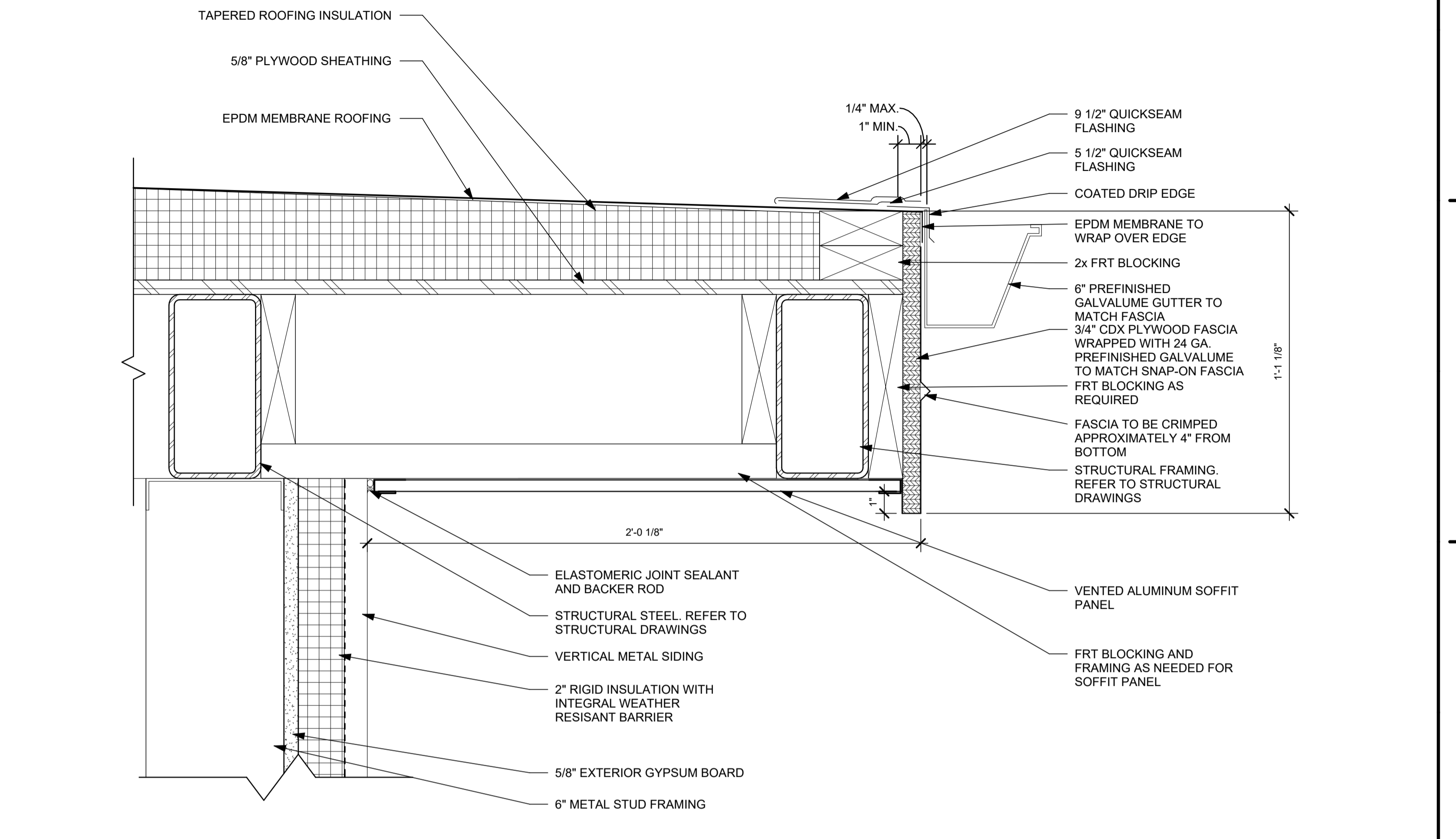
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A5.2

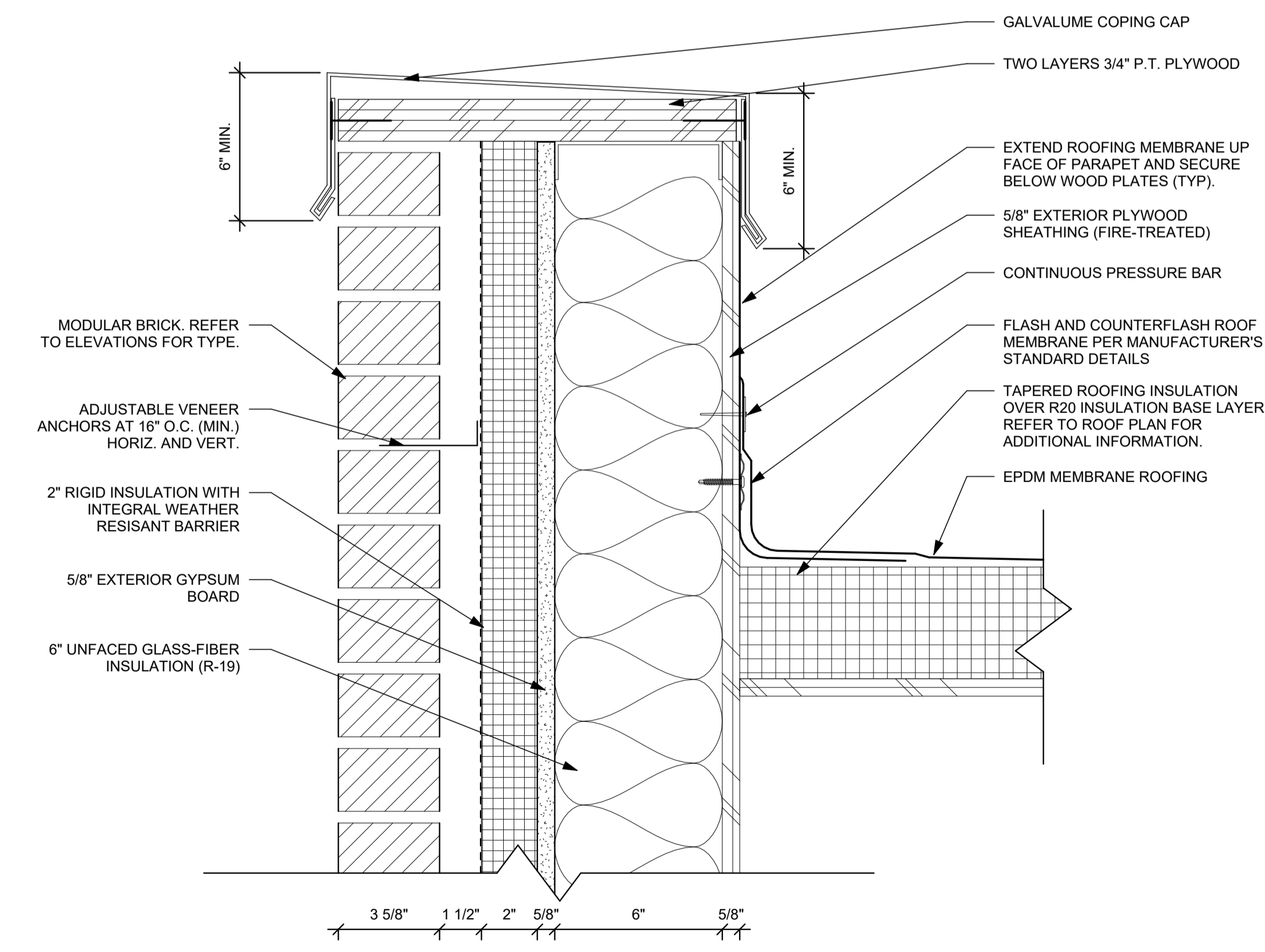
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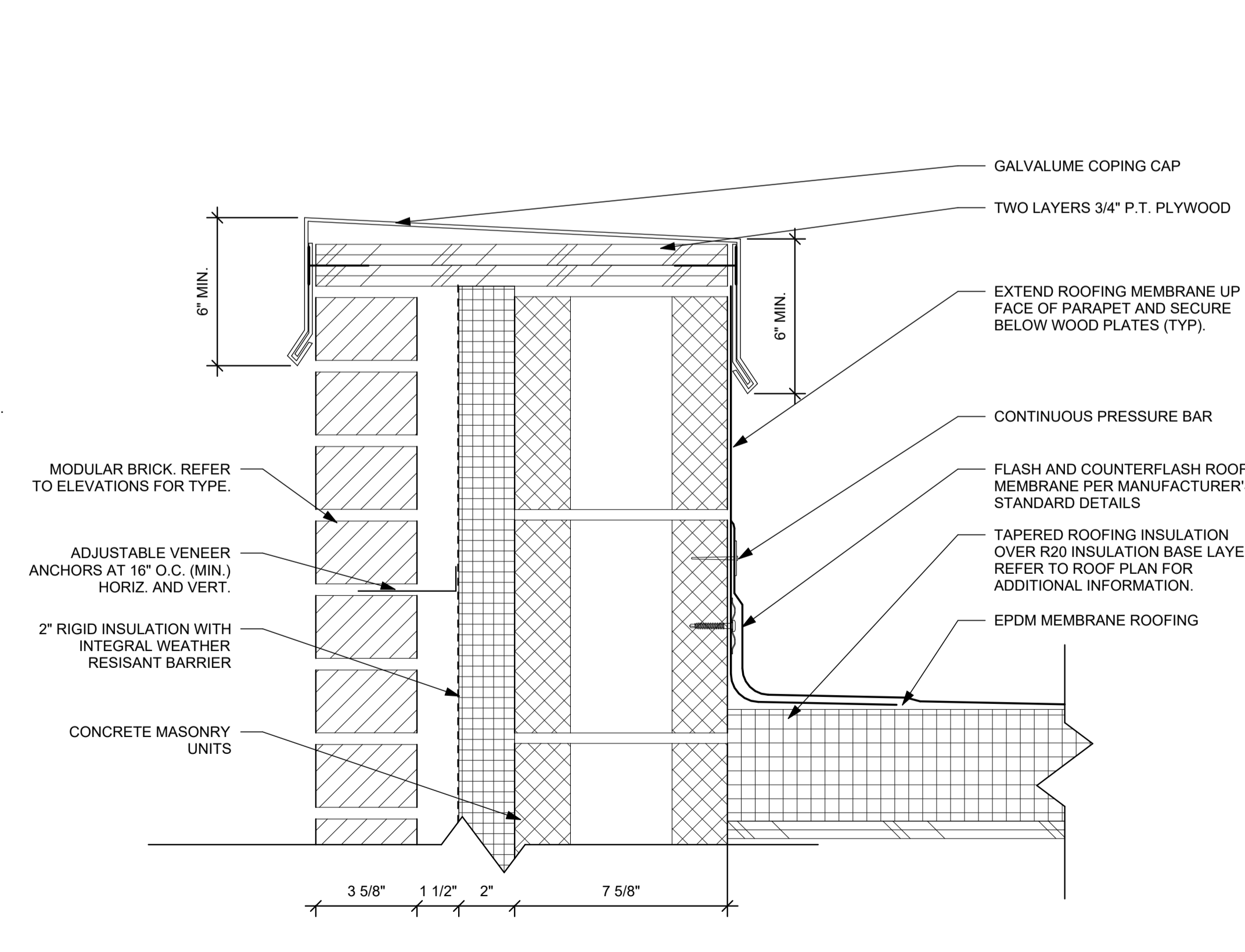
C1 ENTRY TOWER SOFFIT
3" = 1'-0"



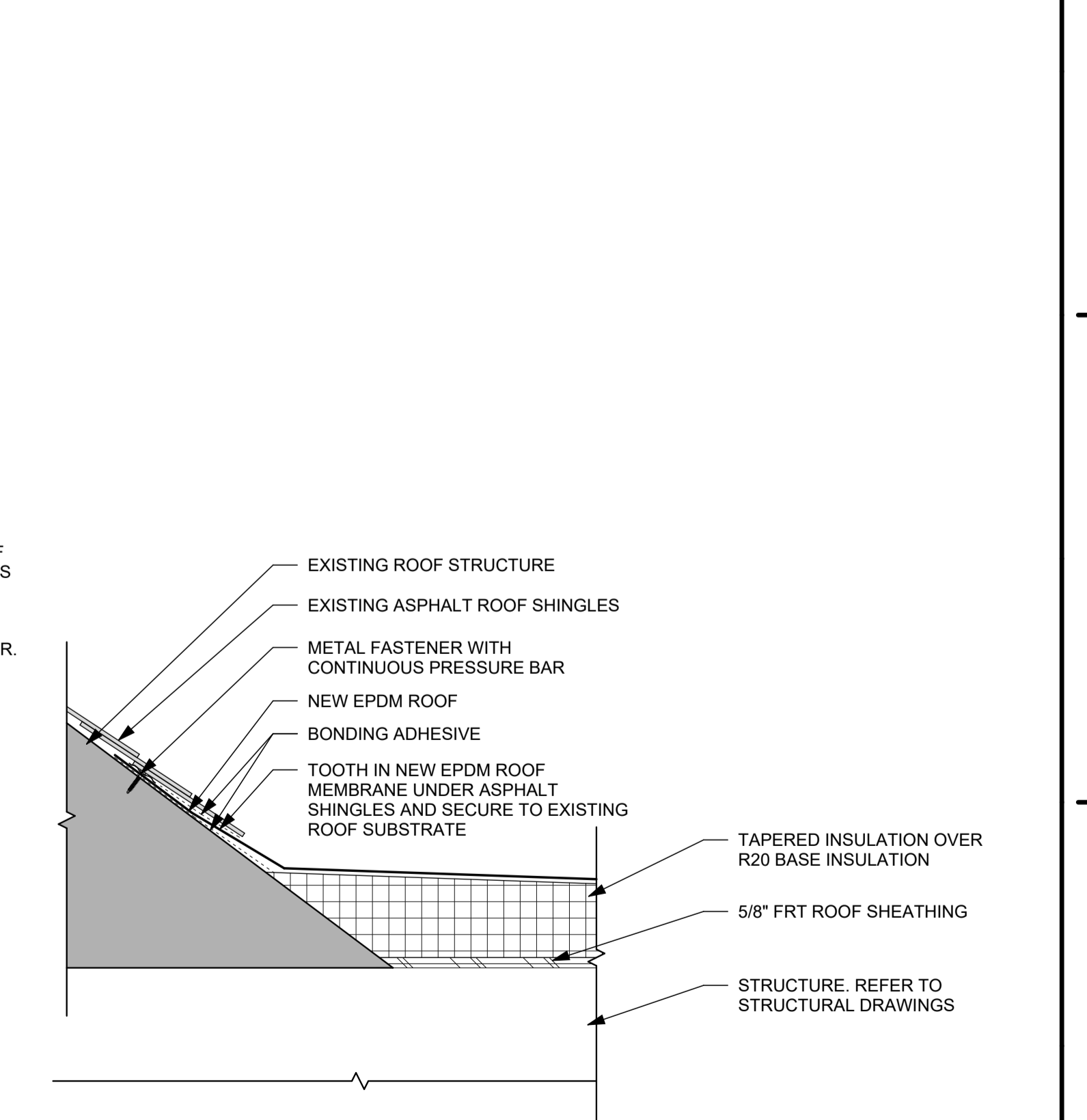
C4 ENTRY TOWER GUTTER
3" = 1'-0"



F1 PARAPET DETAIL - METAL STUD
3" = 1'-0"



F3 PARAPET DETAIL - CMU
3" = 1'-0"



B6 ENTRY TOWER AT EXISTING ROOF
1 1/2" = 1'-0"

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LICENSED ARCHITECT
12305
Timothy J. Bement, License #12305
Expiration Date 12/31/2025

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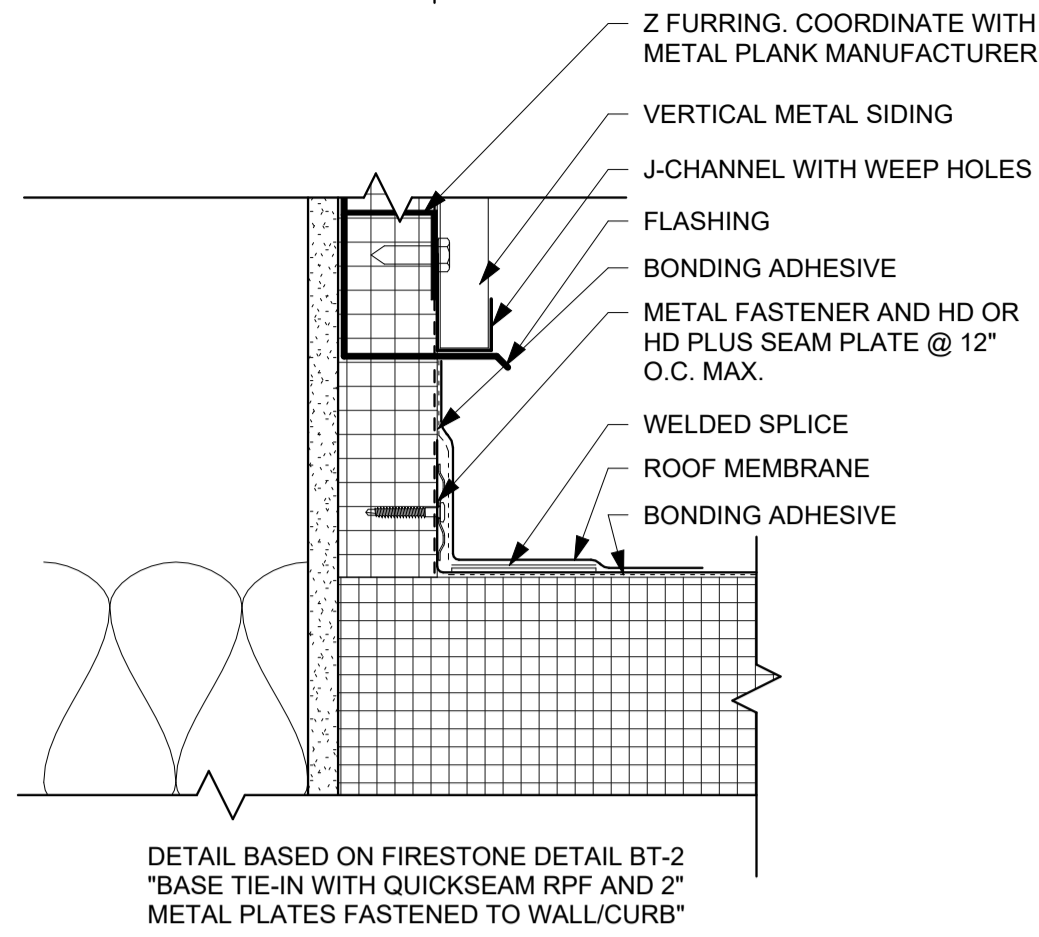
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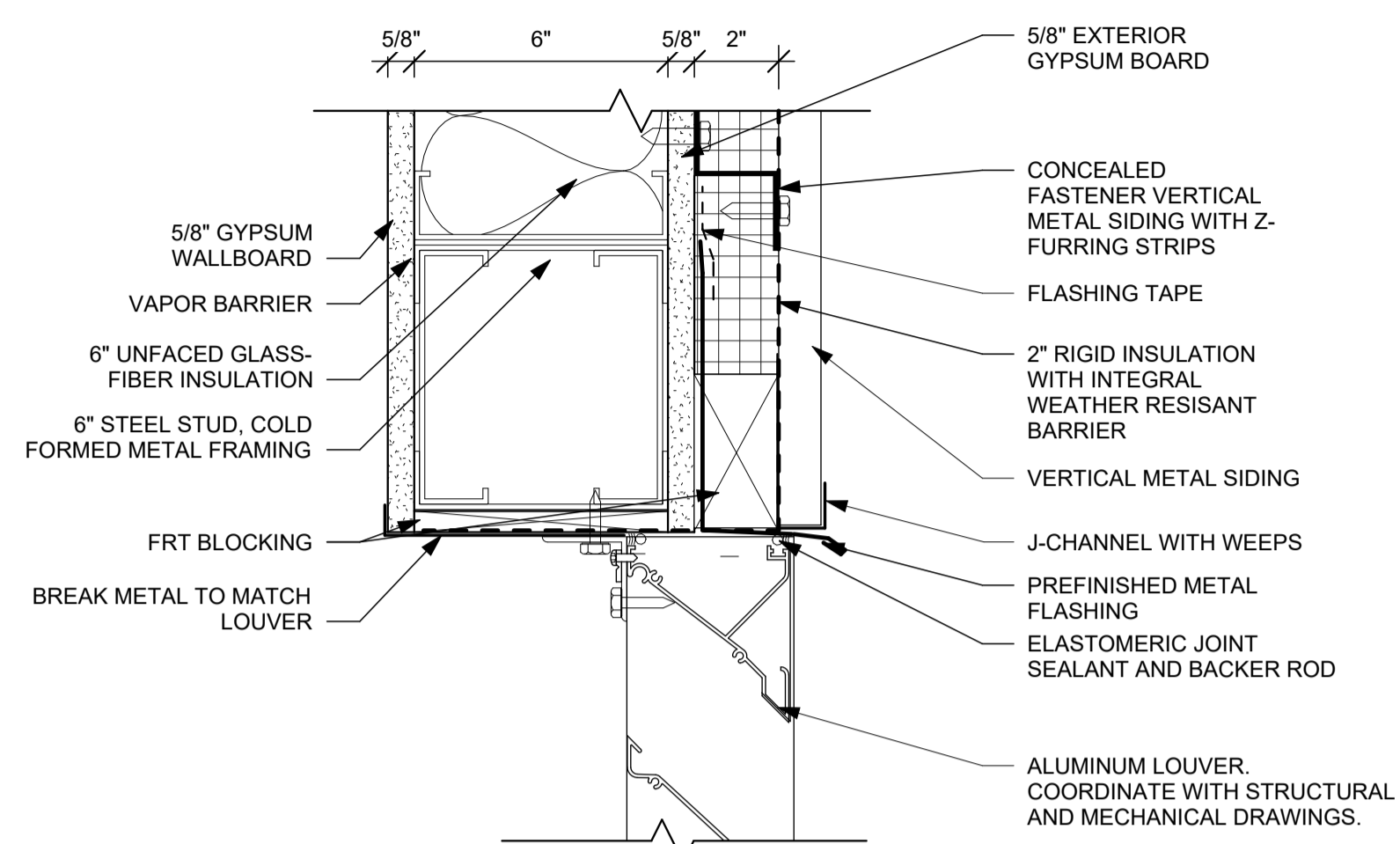
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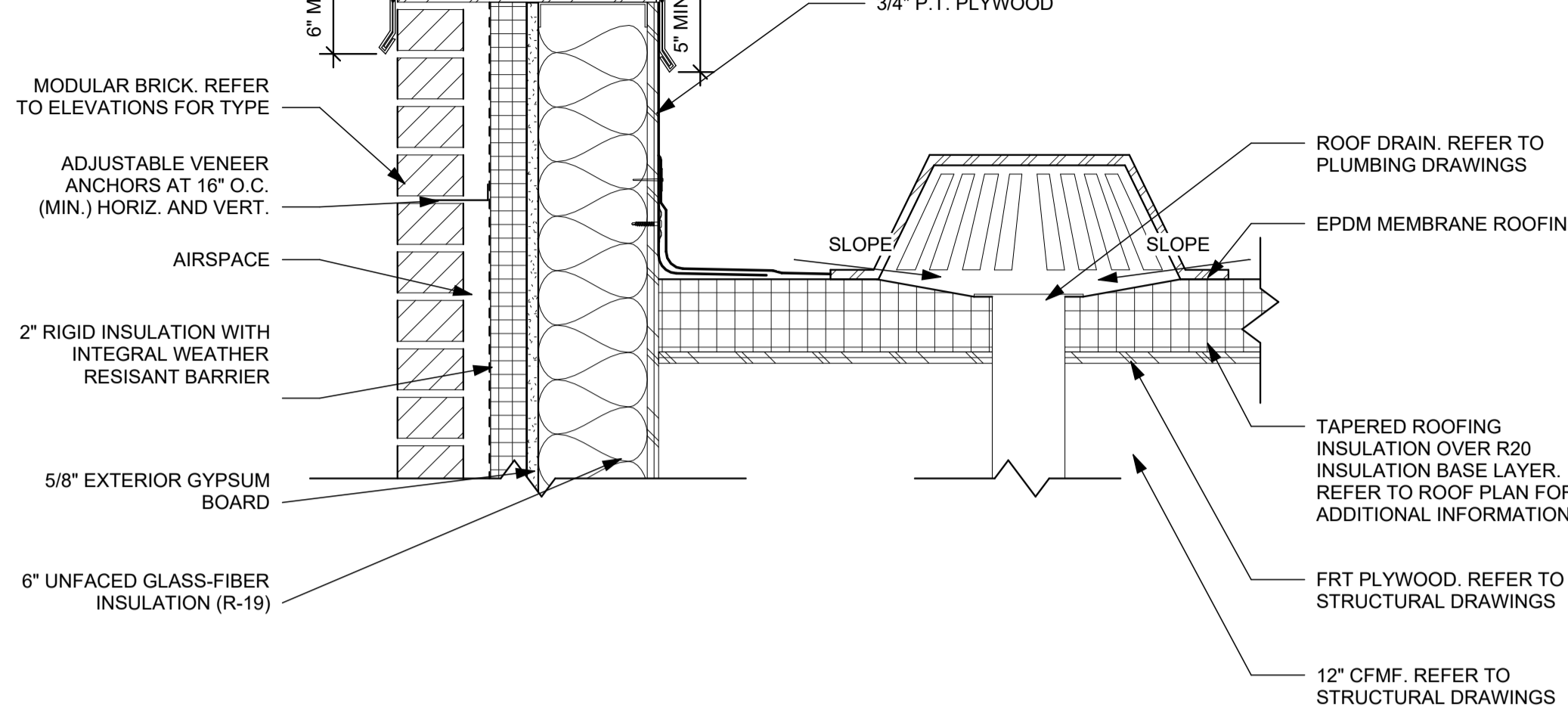
A



B1 FLAT ROOF @ VERTICAL METAL SIDING
3" = 1'-0"

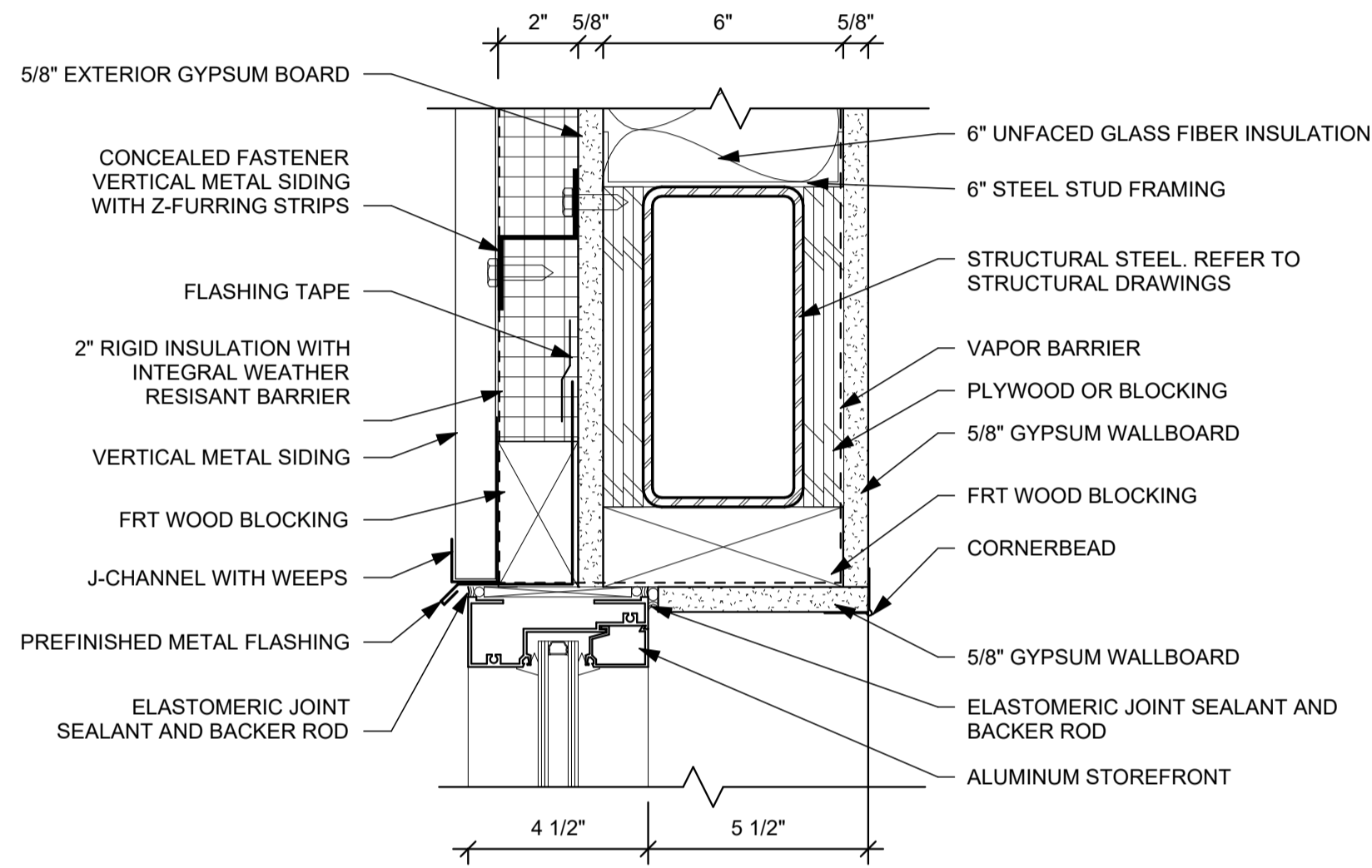


B3 LOUVER HEAD DETAIL
3" = 1'-0"

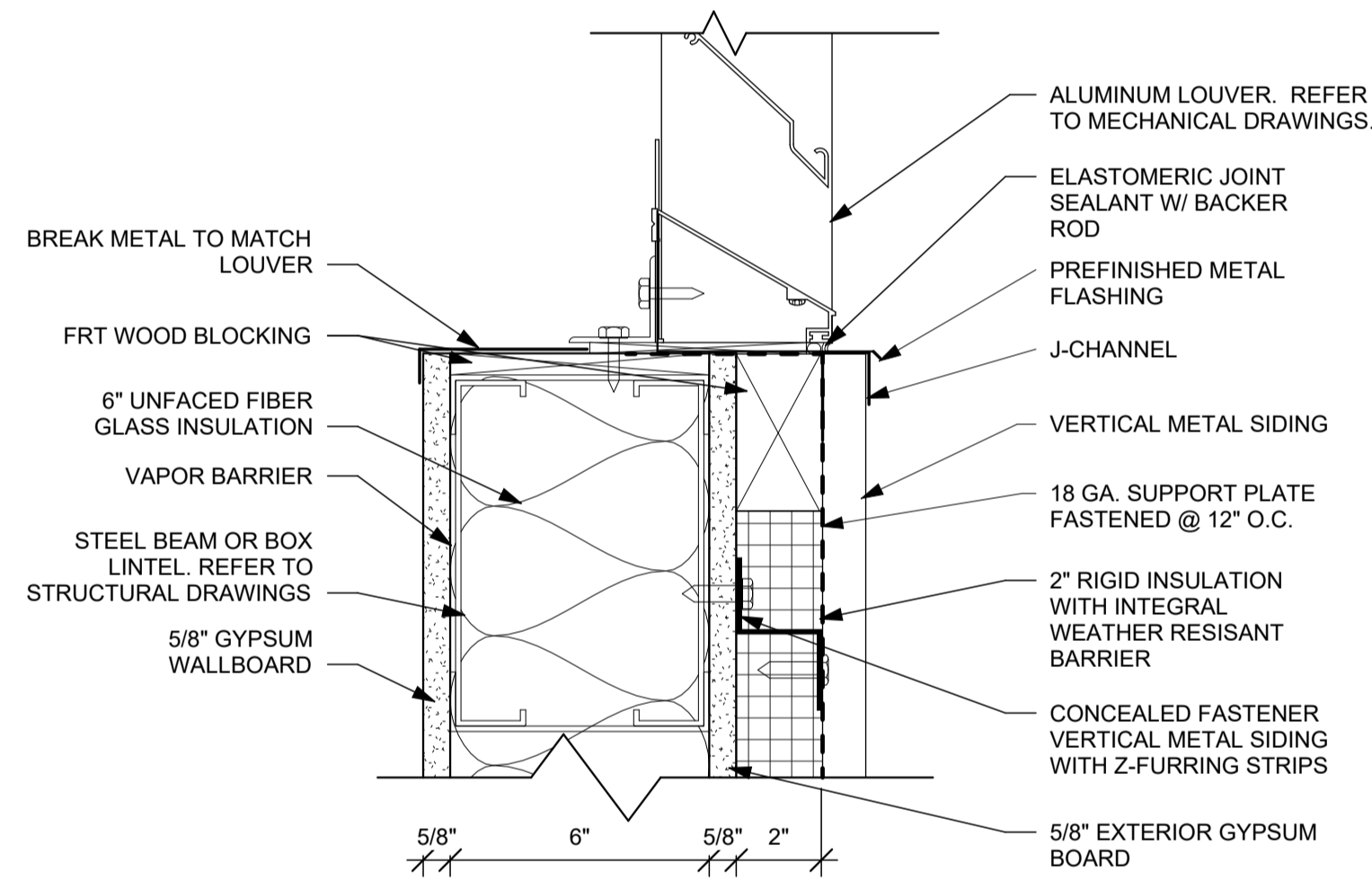


B5 INTERNAL GUTTER DETAIL
1 1/2" = 1'-0"

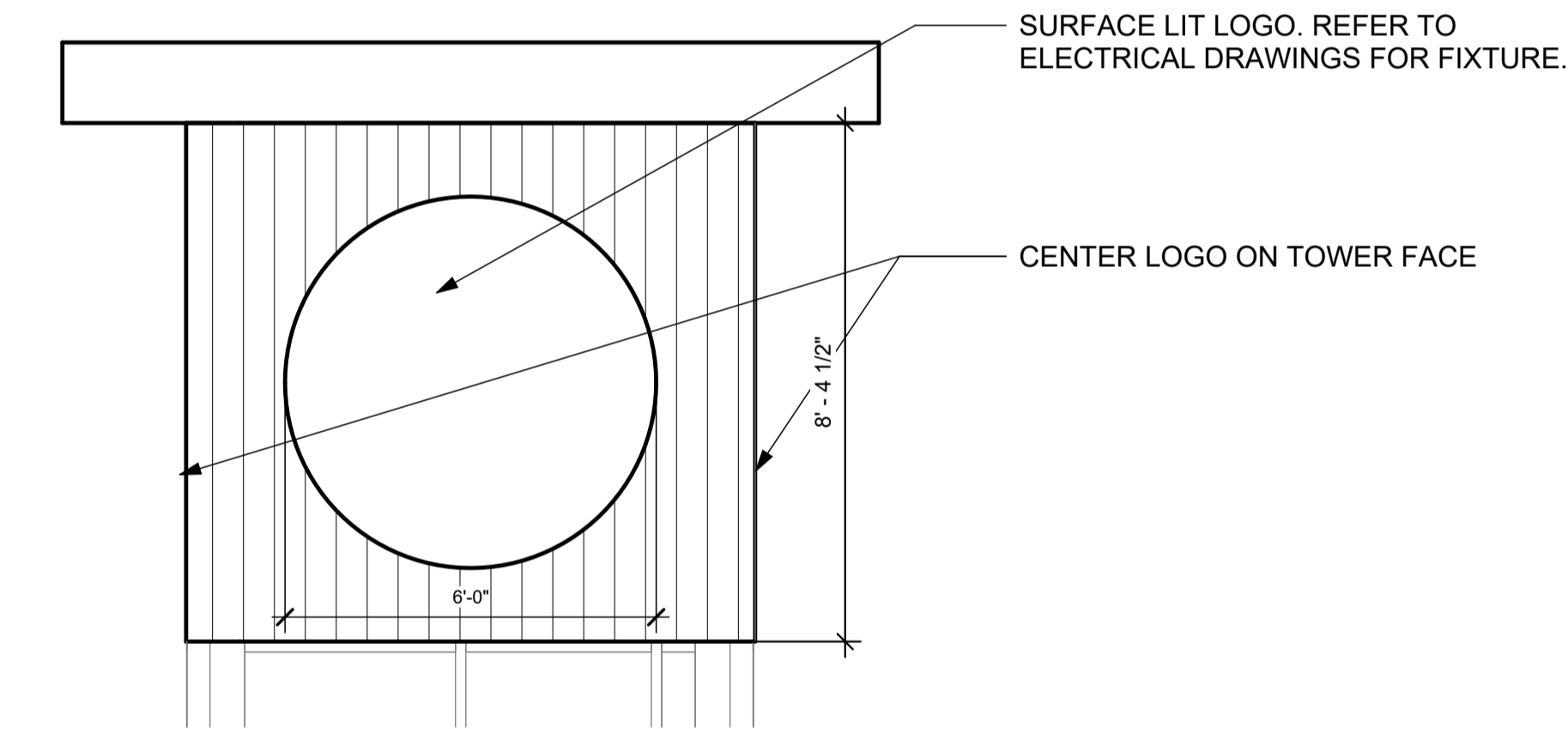
B



D1 ENTRY HEAD DETAIL
3" = 1'-0"

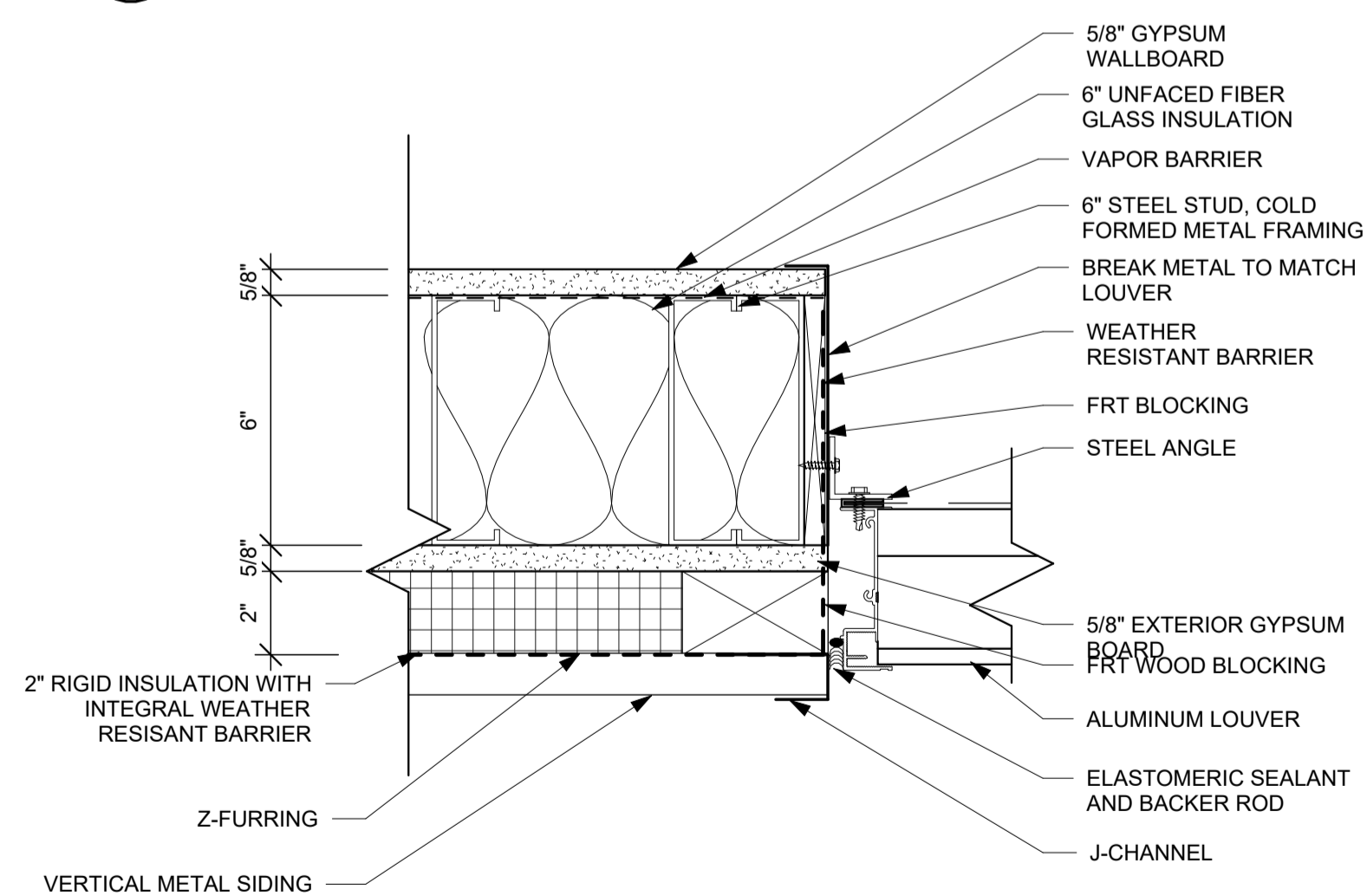


D3 LOUVER SILL DETAIL
3" = 1'-0"

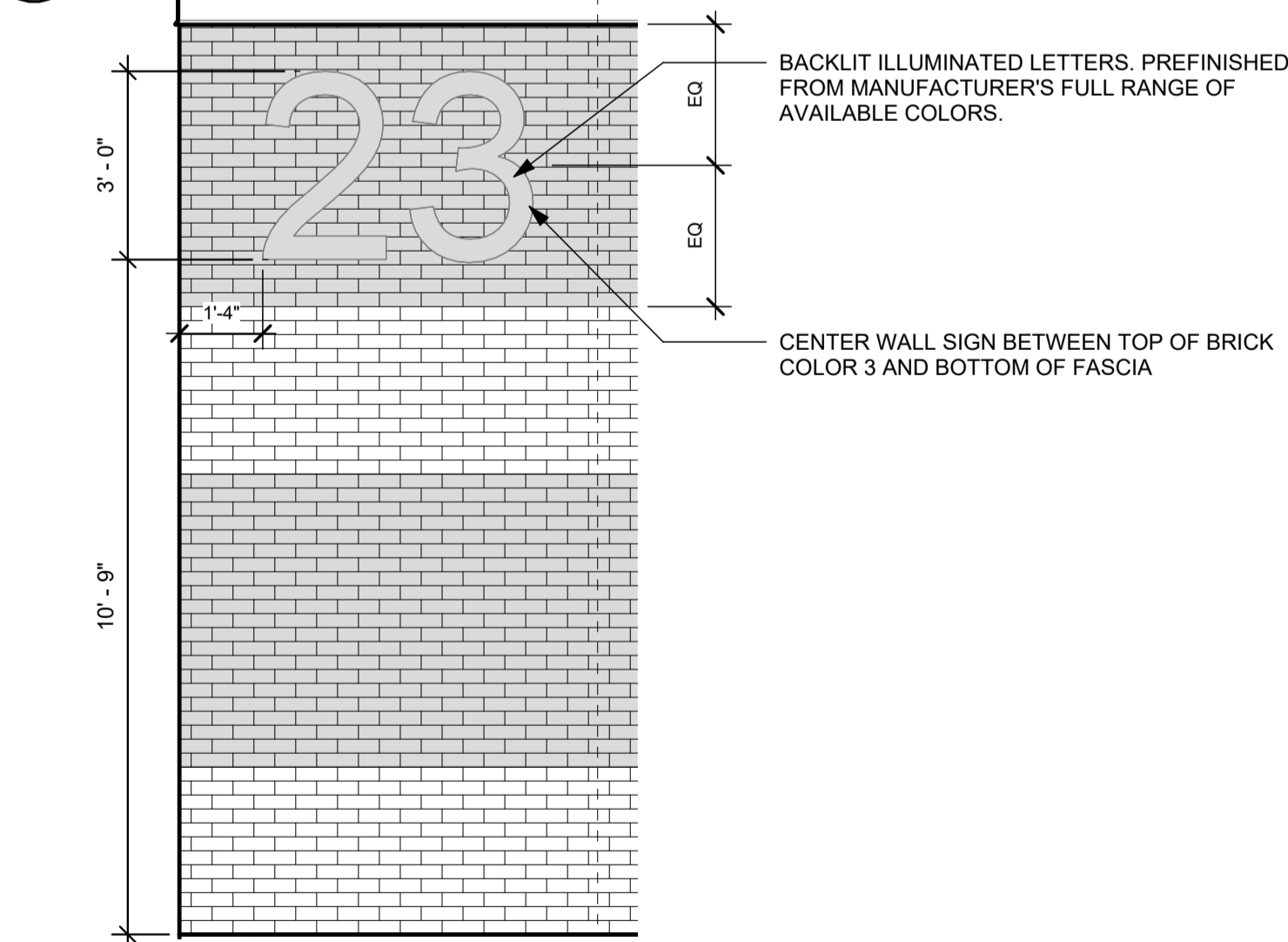


D5 STATION NUMBER
3/8" = 1'-0"

C



F3 LOUVER JAMB DETAIL
3" = 1'-0"



F5 ENTRANCE SIGN
3/8" = 1'-0"

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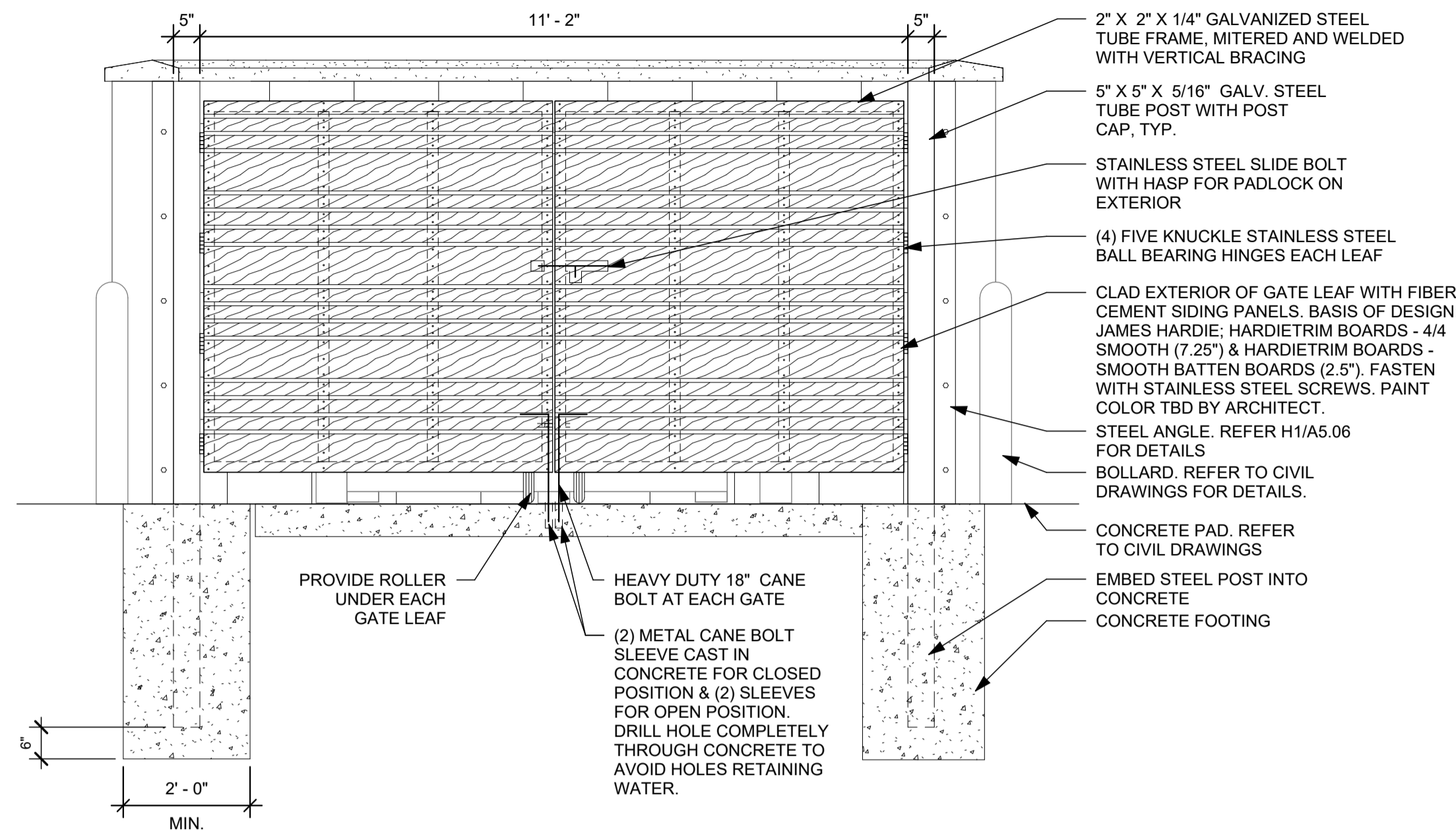
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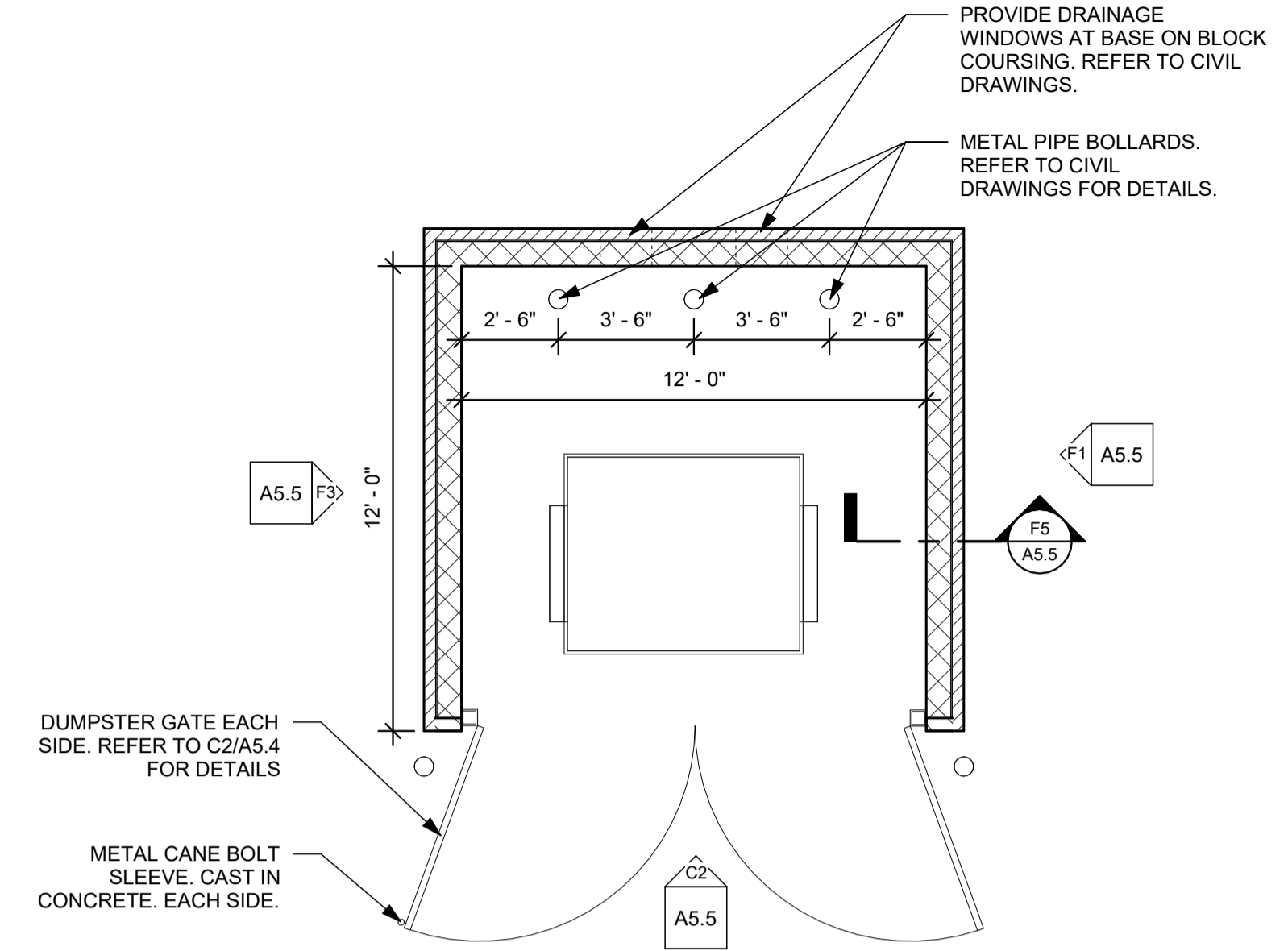
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TITLE EXTERIOR DETAILS	
SHEET NO. A5.4	

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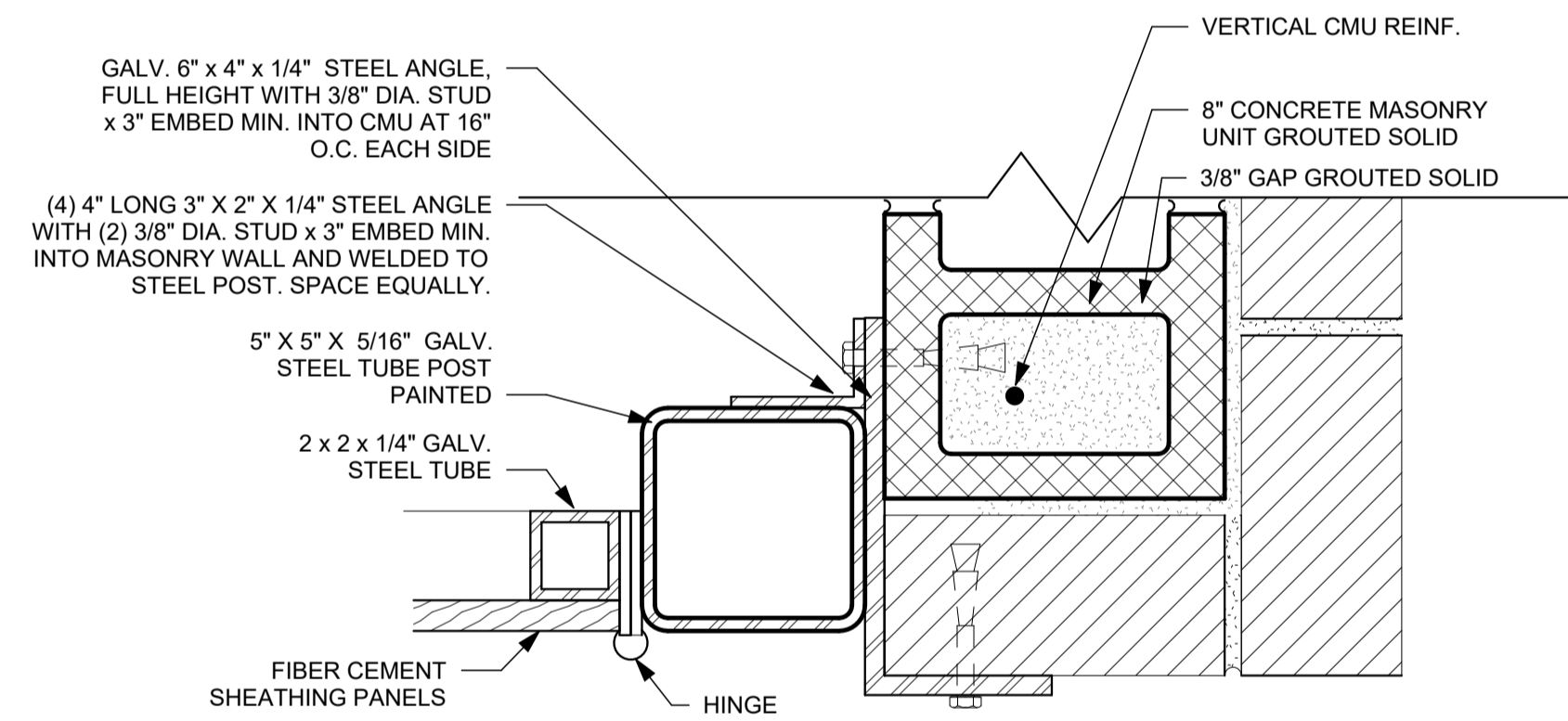
1 | 2 | 3 | 4 | 5 | 6 | 7



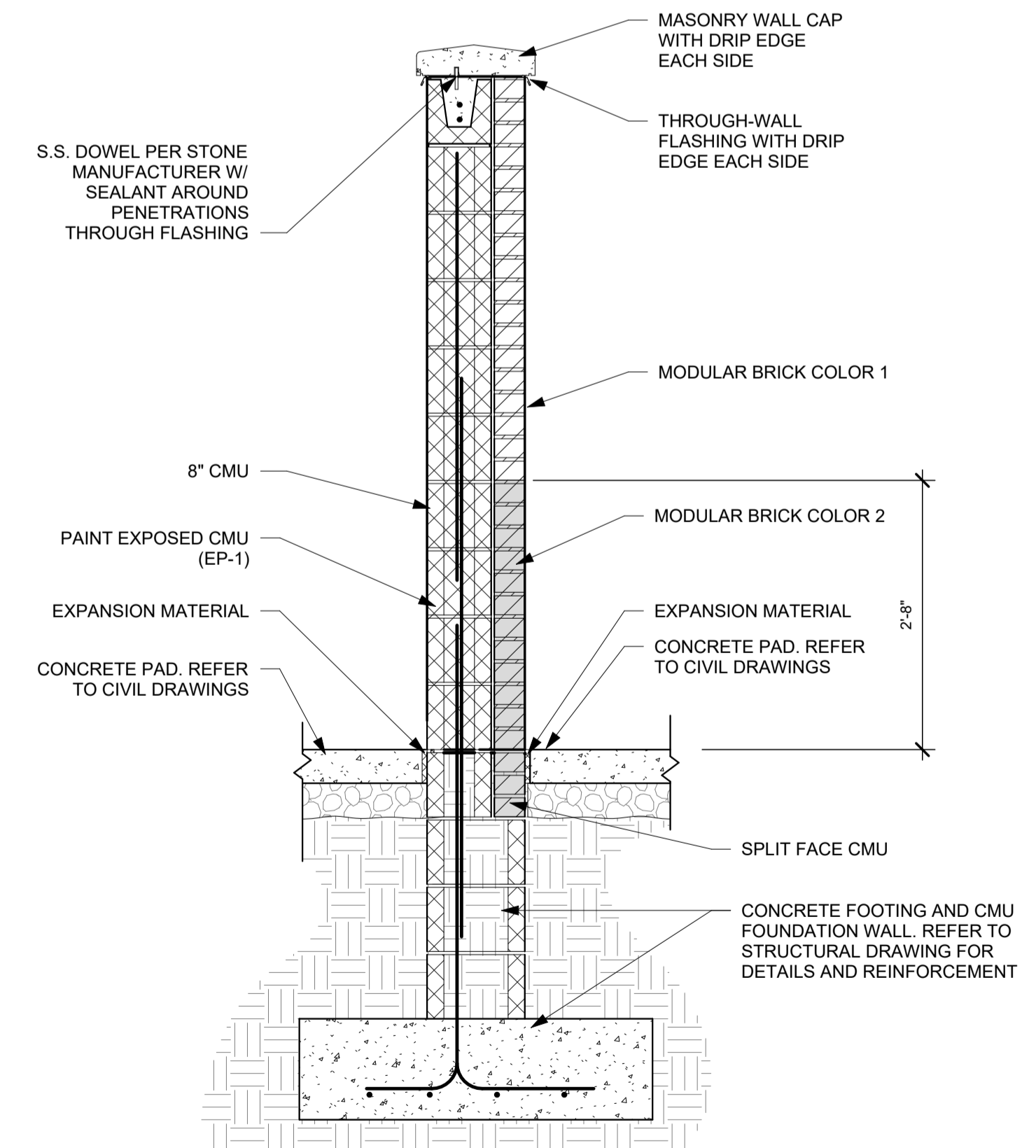
C2 DUMPSTER GATE ELEVATION
1/2" = 1'-0"



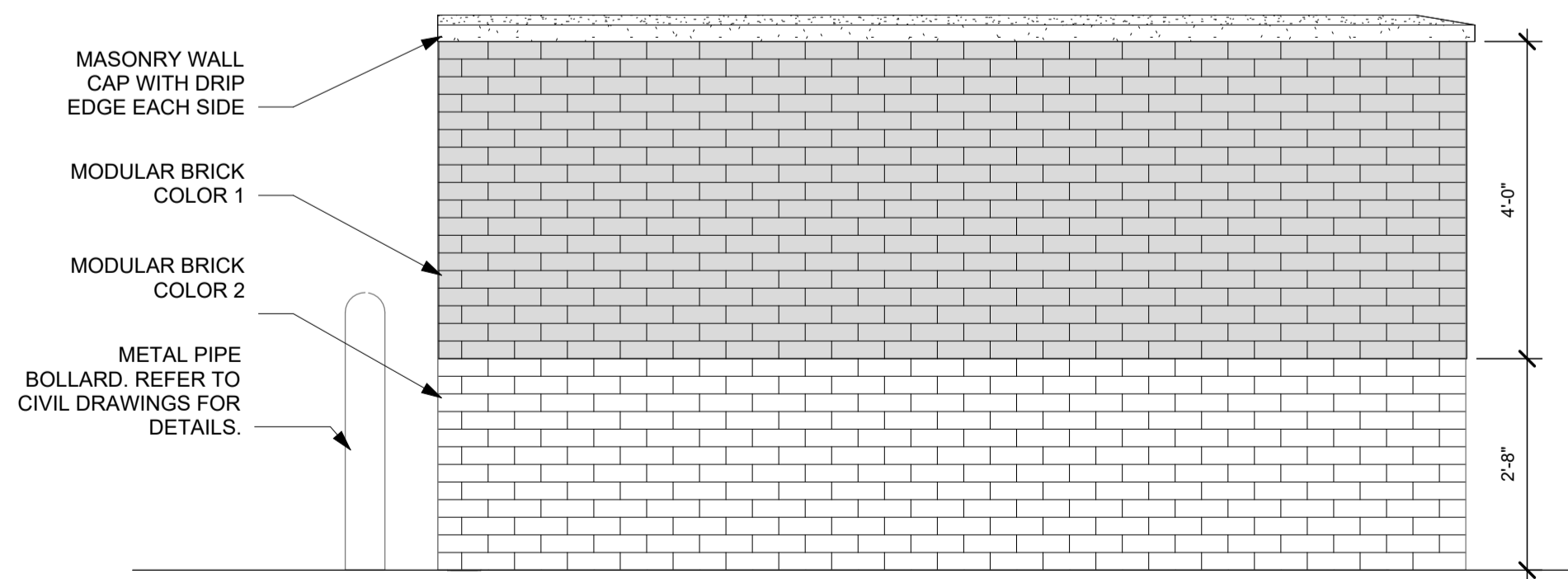
B6 FIRST FLOOR DUMPSTER ENCLOSURE PLAN
1/4" = 1'-0"



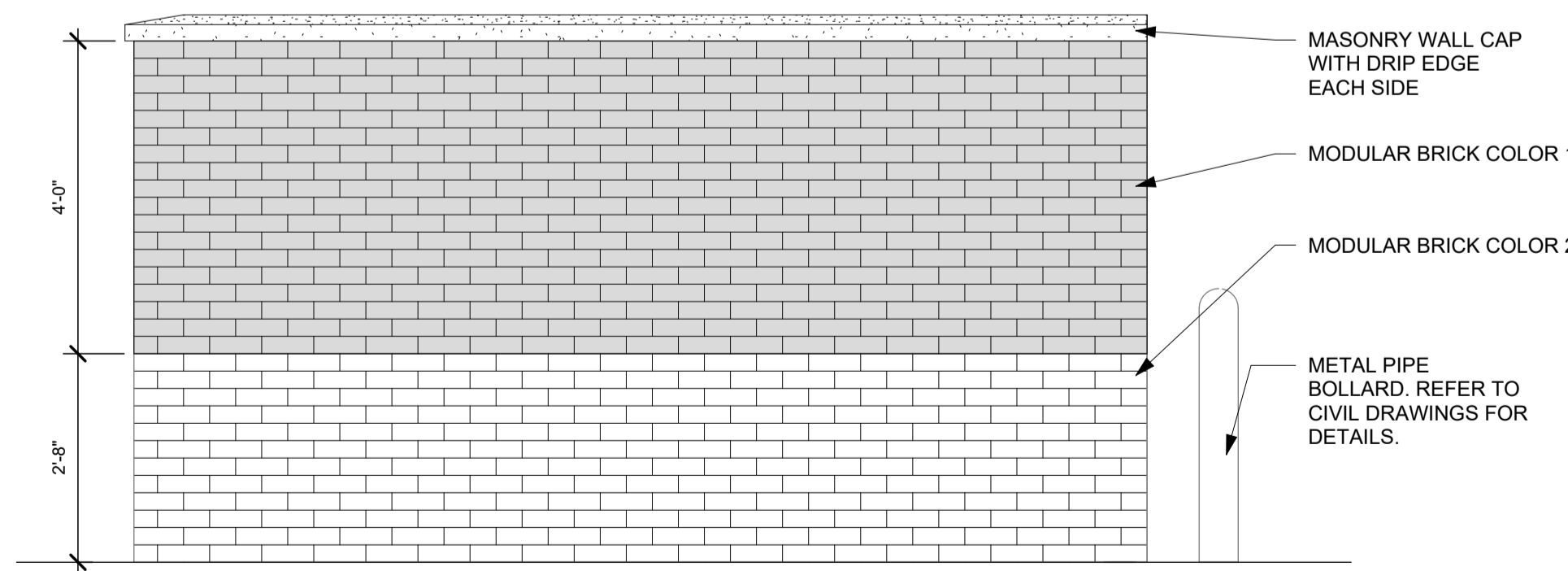
D2 GATE JAMB DETAIL
3" = 1'-0"



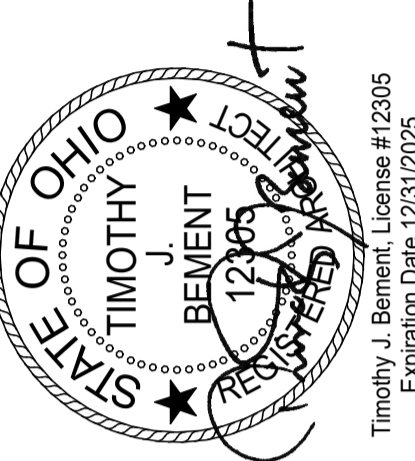
F5 DUMPSTER WALL SECTION
3/4" = 1'-0"



F1 DUMPSTER ENCLOSURE NORTH ELEVATION
1/2" = 1'-0"



F3 DUMPSTER ENCLOSURE SOUTH ELEVATION
1/2" = 1'-0"



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CONSTRUCTION NOTES

- (00) INDICATES CONSTRUCTION NOTE.
- 1 STEEL CASEWORK, BASIS OF DESIGN: ULINE H-8531. ARCHITECT TO CHOOSE FROM MANUFACTURER'S STANDARD COLORS.
- 2 STEEL CASEWORK, BASIS OF DESIGN: ULINE H-4472. ARCHITECT TO CHOOSE FROM MANUFACTURER'S STANDARD COLORS.
- 3 STAINLESS STEEL BACKSPLASH (SSB).
- 4 STEEL FILLER STRIP, COLOR TO MATCH STEEL CASEWORK.
- 5 SOLID SURFACE COUNTERTOP.
- 6 BASE, REFER TO ROOM FINISH SCHEDULE.
- 7 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE FOR TYPE.
- 8 PLASTIC LAMINATE (PL-1) SLOPE TOP.
- 9 WALL MOUNTED LIGHT. REFER TO ELECTRICAL DRAWINGS.
- 10 PORCELAIN TILE WALL BASE (PTWB-1)
- 11 TOILET FIXTURE. REFER TO PLUMBING DRAWINGS.
- 12 STAINLESS STEEL COUNTERTOP WITH BACK AND SIDE SPLASHES AND INTEGRAL SINK.
- 13 SOLID SURFACE COUNTERTOP WITH BACK AND SIDE SPLASHES.
- 14 PLASTIC LAMINATE (PL-2) COUNTERTOP.
- 15 STAINLESS STEEL COUNTERTOP WITH BACK AND SIDE SPLASHES.
- 16 GYPSUM BOARD SOFFIT.
- 17 METAL SUPPORT BRACKETS @ 4' - 0" O.C. MAX.
- 18 PORCELAIN WALL TILE, (PT-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
- 19 PORCELAIN WALL TILE, (PT-2) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
- 20 PORCELAIN WALL TILE, (PT-3) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
- 21 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.
- 22 HDBRD SIM. REFER TO MOUNTING HEIGHT ON ELEVATION.
- 23 GYPSUM BOARD SOFFIT, PAINT P-2.
- 24 DORM LOCKERS (PL-1).
- 25 WALL-HUNG TV CASEWORK. REFER TO SHEET A8.6 FOR DETAILS.

GENERAL NOTES

- A. NOT ALL NOTES APPLICABLE TO SHEET.
- B. REFER TO ROOM FINISH SCHEDULE, MATERIAL LEGEND, AND FINISHES PLANS FOR FINISH AND MATERIAL DETAILS.
- C. MEP INFORMATION SHOWN FOR REFERENCE ONLY. REFER TO MEP PLANS FOR DETAILS.
- D. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.
- E. REFER TO ELEVATIONS ON SHEET A0.1 FOR TOILET ROOM ACCESSORY MOUNTING HEIGHTS AND CLEARANCES.
- F. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.
- G. MATCHING SCRIBE STRIPS TO BE PROVIDED TO FILL GAPS AND IRREGULARITIES WHERE THE EDGE OF CABINETS AND LOCKERS MEET WALLS. FILLER STRIPS ALSO TO BE PROVIDED AT CABINETS AND LOCKER CORNERS TO FILL ANY GAPS LEFT TO ALLOW DOORS AND DRAWERS TO FUNCTION PROPERLY.
- H. PROVIDE FINISHED END ON ALL EXPOSED SURFACES OF CASEWORK.
- I. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF WALL TYPES.
- J. REFER TO THE REFERENCE PLANS ON SHEET A1.5 FOR WALL TYPES.
- K. ELEVATIONS SHOW FINISHED WORK. REFER TO SHEETS A1.1, A1.2, A1.3, A1.4, A2.1, A2.2, A2.3, AND A2.4 FOR PHASES OF WORK TO BE COMPLETED.
- L. EXAMPLE OF CASEWORK DIMENSIONS (2426) INDICATES: 24" WIDE x 36" HEIGHTS. FOR DEPTH OF CASEWORK, REFER TO CASEWORK SECTION DETAILS.

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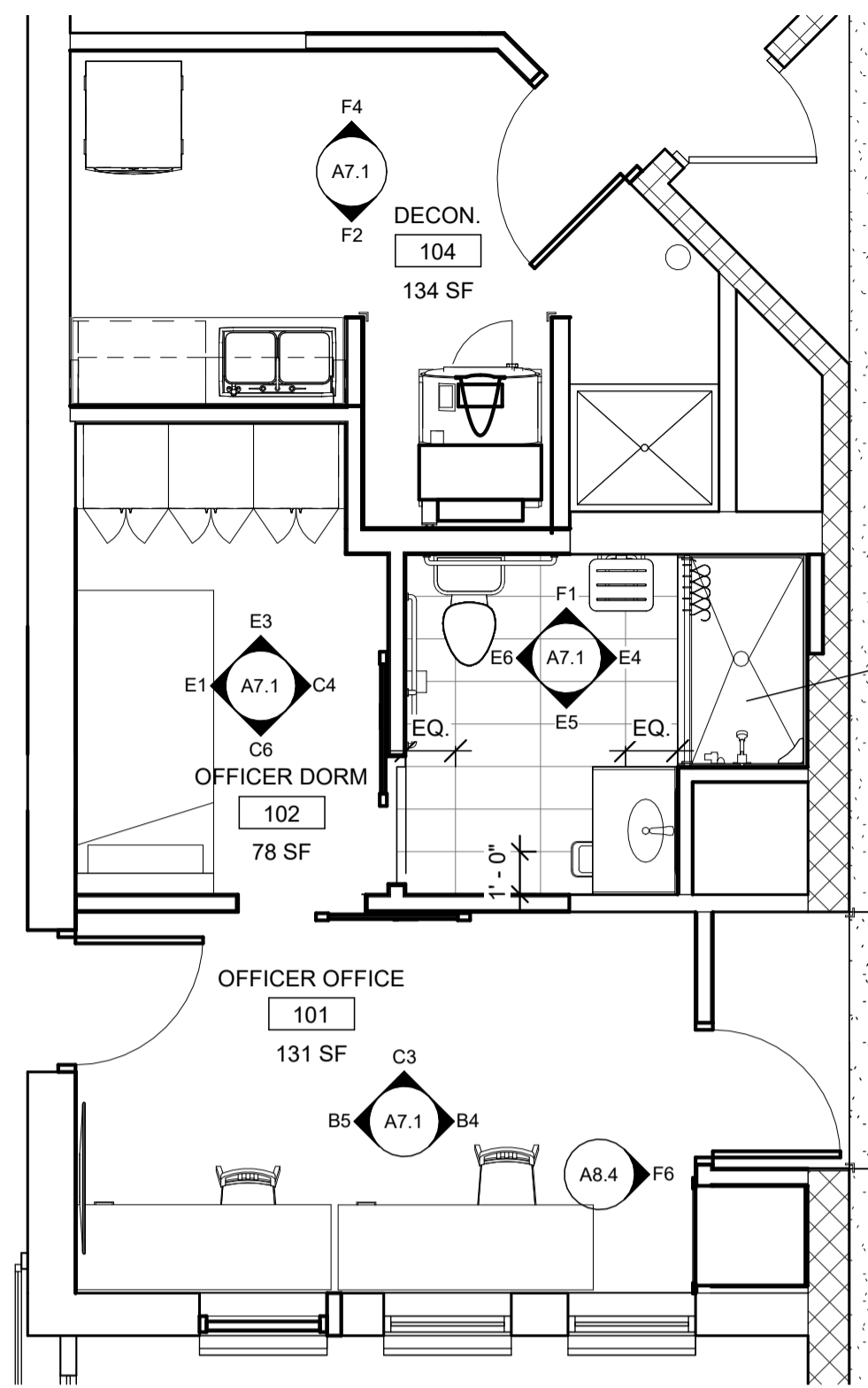
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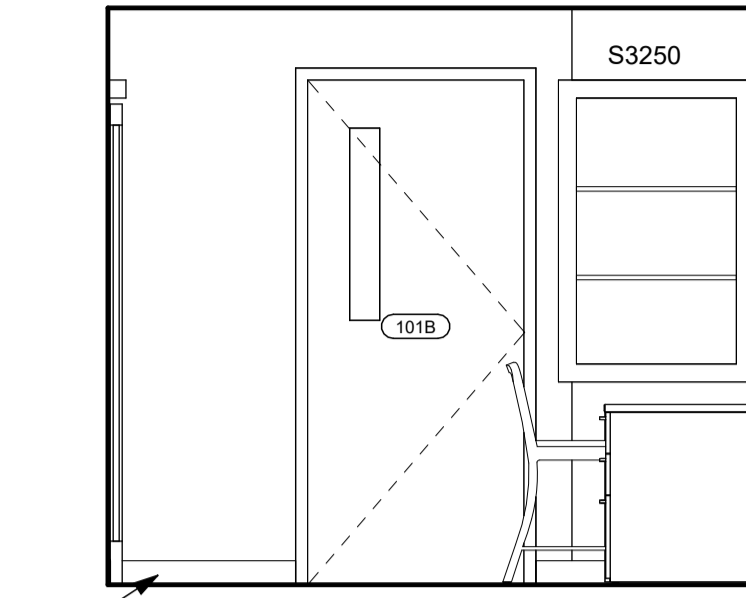
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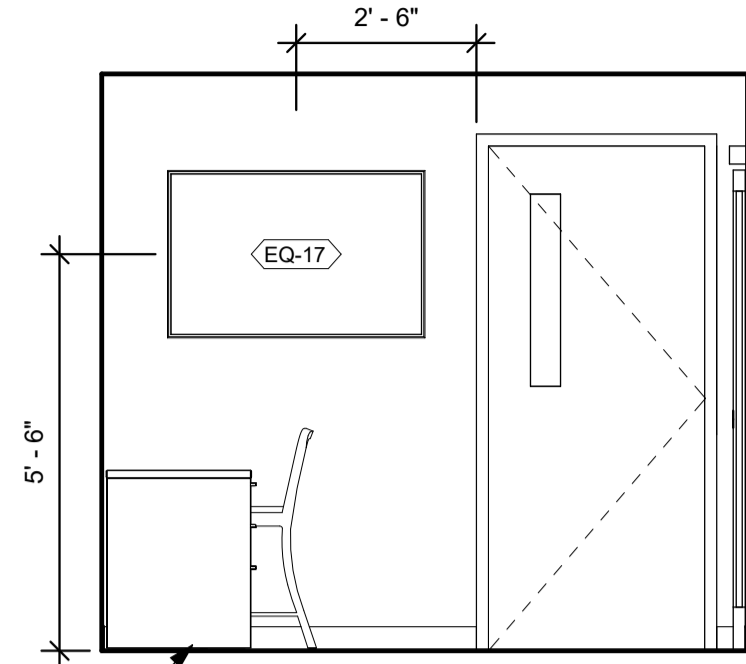
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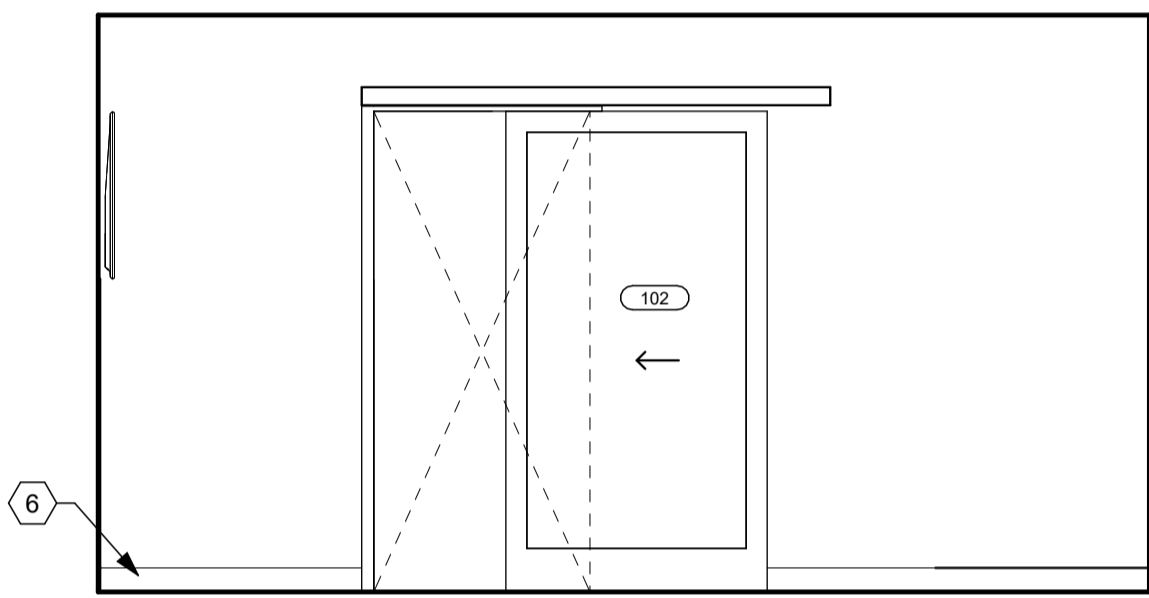
C1 PARTIAL ENLARGED FLOOR PLAN A
1/4" = 1'-0"



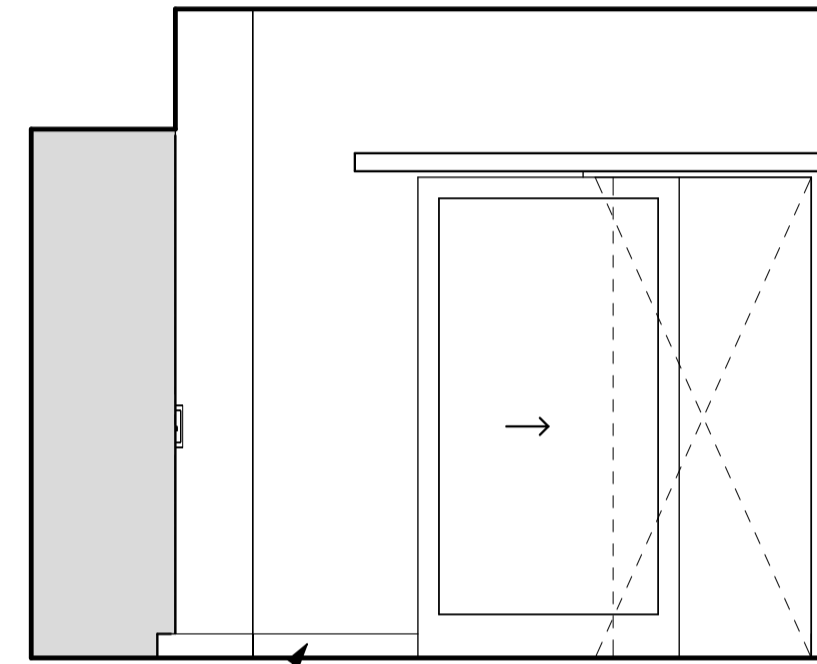
B4 101 OFFICER OFFICE - NORTH
3/8" = 1'-0"



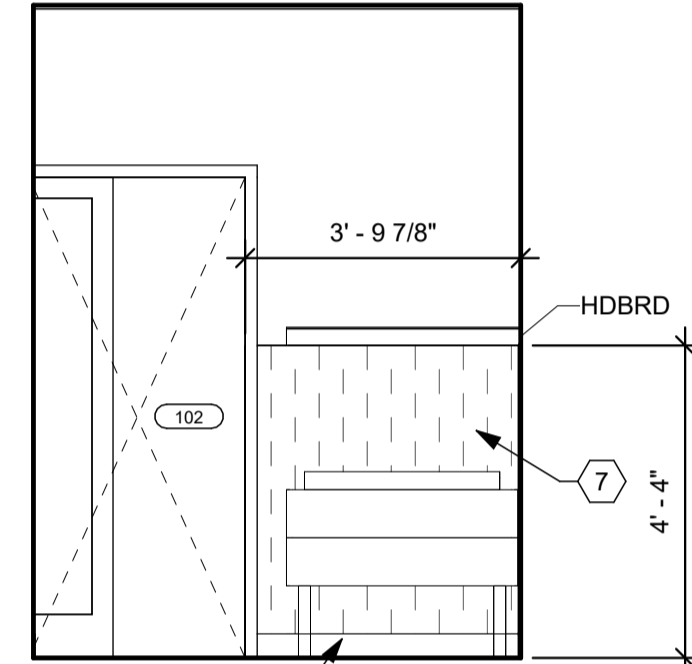
B5 101 OFFICER OFFICE - SOUTH
3/8" = 1'-0"



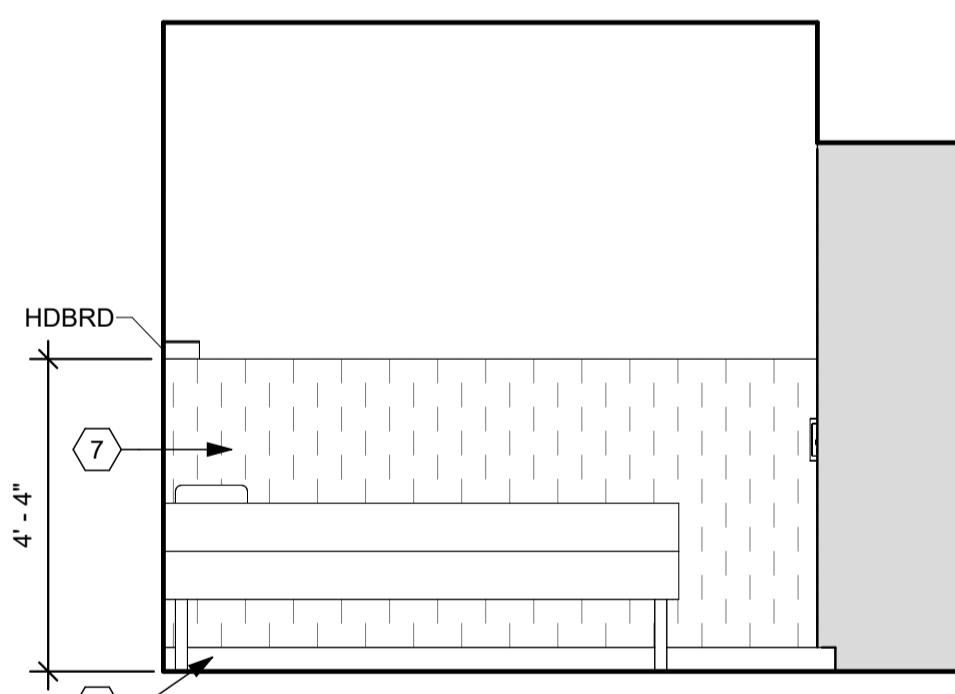
C3 101 OFFICER OFFICE - WEST
3/8" = 1'-0"



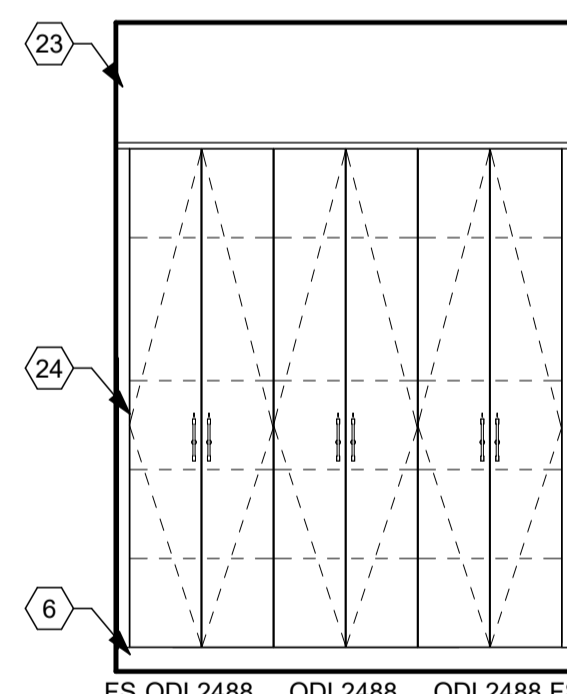
C4 102 OFFICER DORM - NORTH
3/8" = 1'-0"



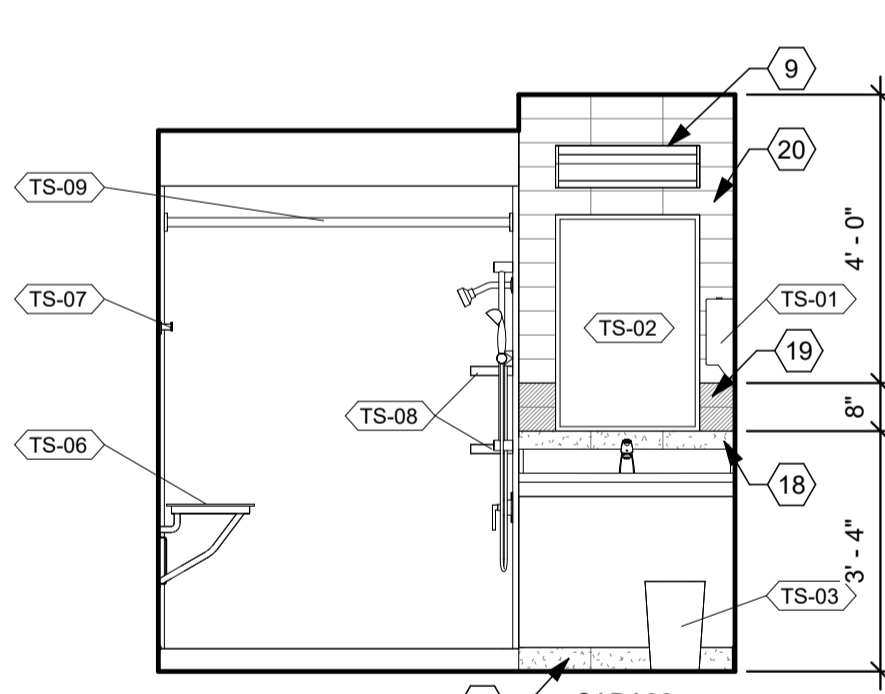
C6 102 OFFICER DORM - EAST
3/8" = 1'-0"



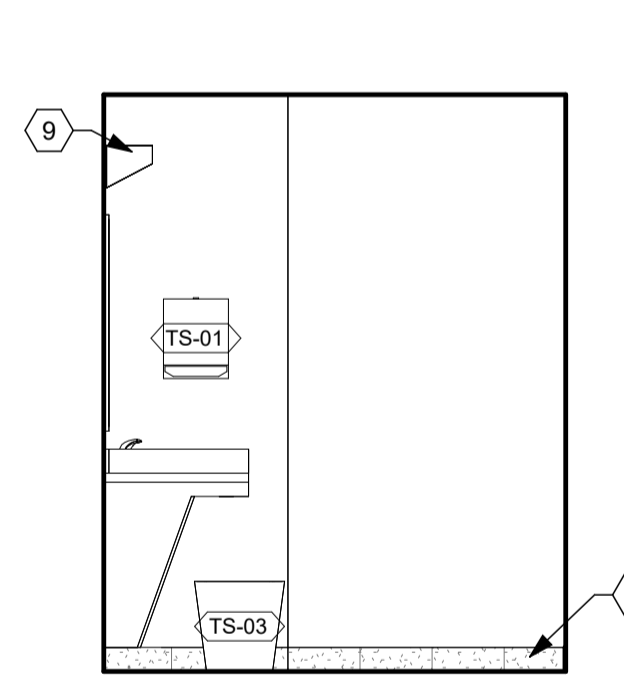
E1 102 OFFICER DORM - SOUTH
3/8" = 1'-0"



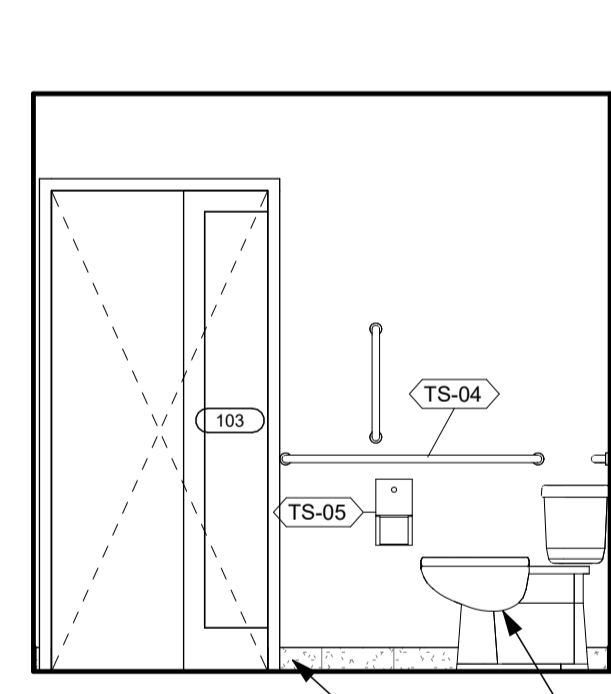
E3 102 OFFICER DORM - WEST
3/8" = 1'-0"



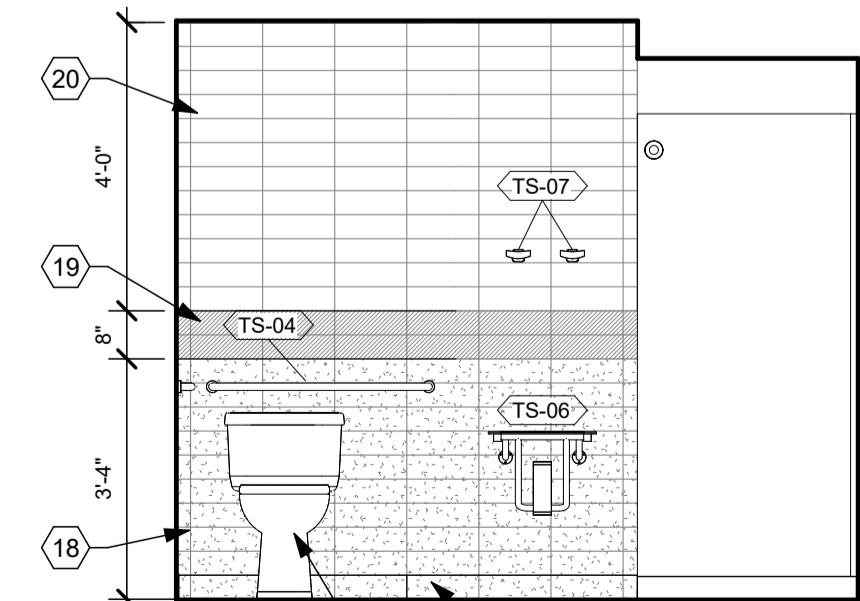
E4 103 OFFICER TOILET - NORTH
3/8" = 1'-0"



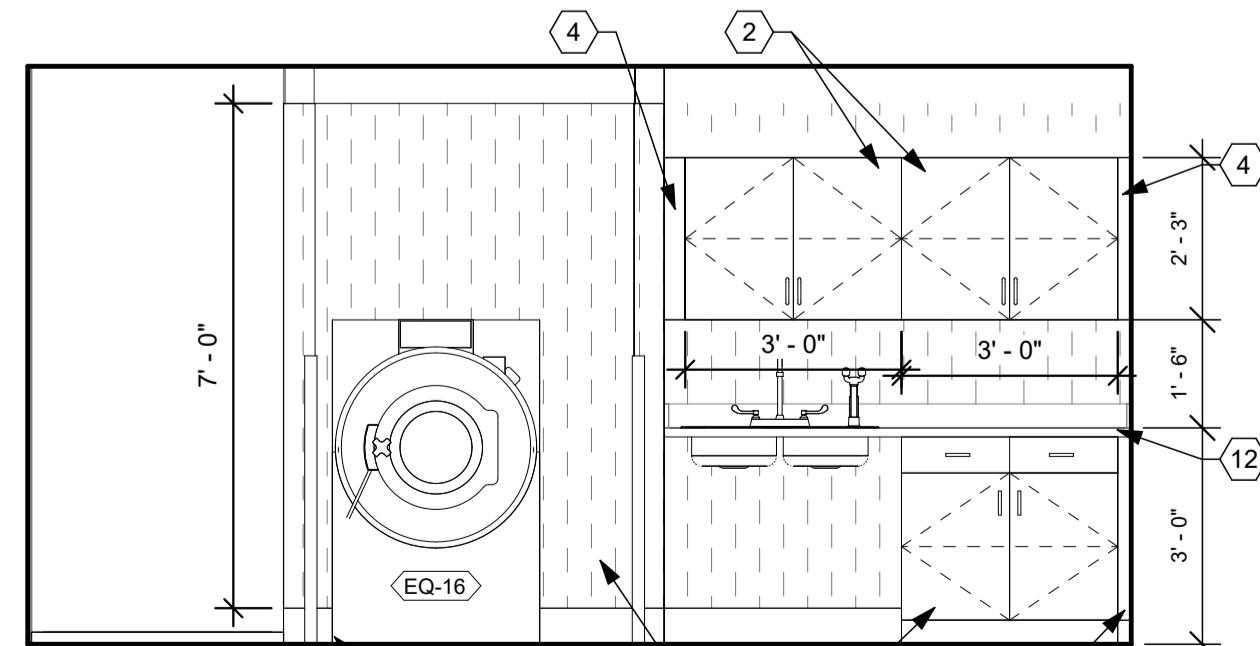
E5 103 OFFICER TOILET - EAST
3/8" = 1'-0"



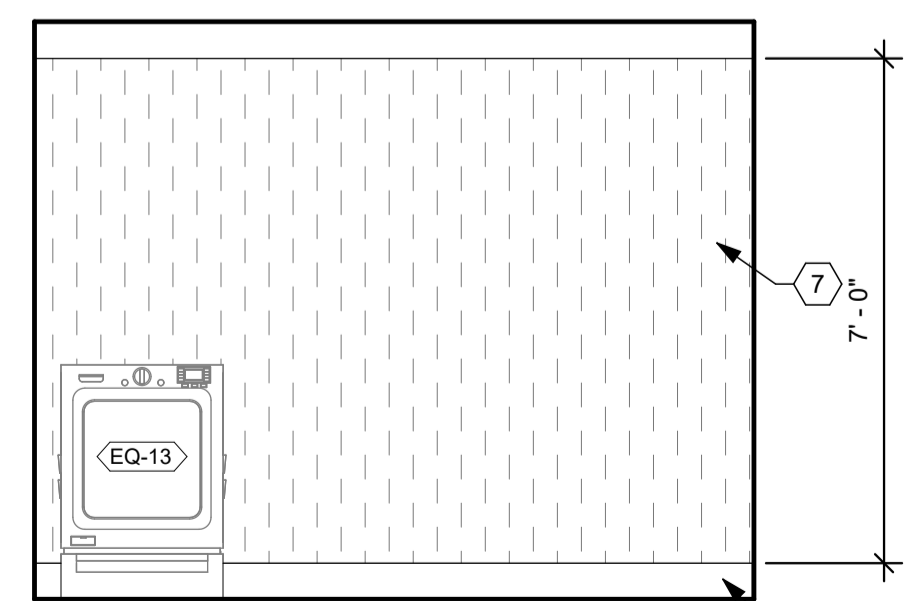
E6 103 OFFICER TOILET - SOUTH
3/8" = 1'-0"



F1 103 OFFICER TOILET - WEST
3/8" = 1'-0"

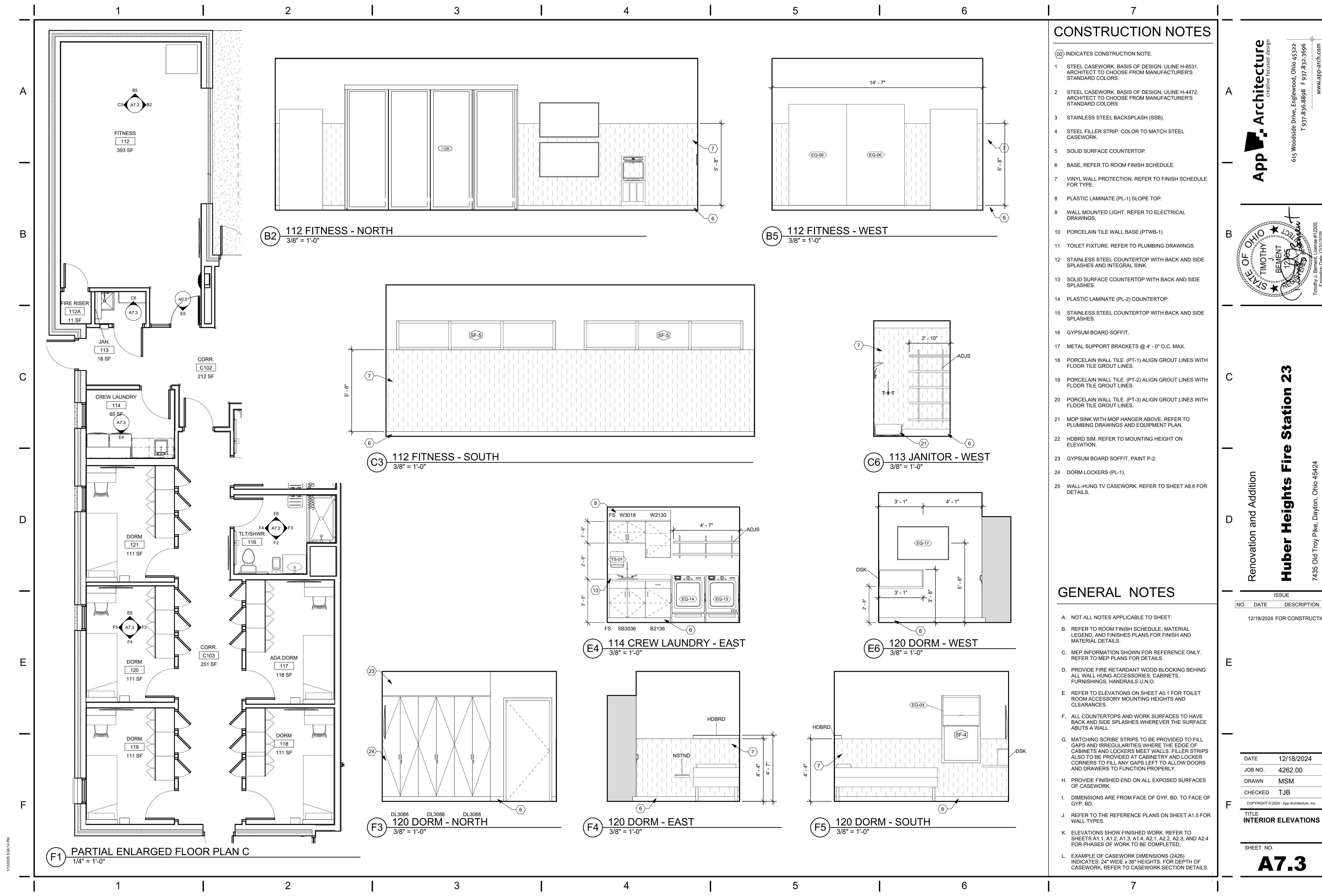


F2 104 DECON - EAST
3/8" = 1'-0"



F4 104 DECON - WEST
3/8" = 1'-0"

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CONSTRUCTION NOTES

- (00) INDICATES CONSTRUCTION NOTE.
- 1 STEEL CASEWORK. BASIS OF DESIGN: ULINE H-8531. ARCHITECT TO CHOOSE FROM MANUFACTURER'S STANDARD COLORS.
- 2 STEEL CASEWORK. BASIS OF DESIGN: ULINE H-4472. ARCHITECT TO CHOOSE FROM MANUFACTURER'S STANDARD COLORS.
- 3 STAINLESS STEEL BACKSPLASH (SSB).
- 4 STEEL FILLER STRIP. COLOR TO MATCH STEEL CASEWORK.
- 5 SOLID SURFACE COUNTERTOP.
- 6 BASE, REFER TO ROOM FINISH SCHEDULE.
- 7 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE FOR TYPE.
- 8 PLASTIC LAMINATE (PL-1) SLOPE TOP.
- 9 WALL MOUNTED LIGHT. REFER TO ELECTRICAL DRAWINGS.
- 10 PORCELAIN TILE WALL BASE (PTWB-1)
- 11 TOILET FIXTURE. REFER TO PLUMBING DRAWINGS.
- 12 STAINLESS STEEL COUNTERTOP WITH BACK AND SIDE SPLASHES AND INTEGRAL SINK.
- 13 SOLID SURFACE COUNTERTOP WITH BACK AND SIDE SPLASHES.
- 14 PLASTIC LAMINATE (PL-2) COUNTERTOP.
- 15 STAINLESS STEEL COUNTERTOP WITH BACK AND SIDE SPLASHES.
- 16 GYPSUM BOARD SOFFIT.
- 17 METAL SUPPORT BRACKETS @ 4'-0" O.C. MAX.
- 18 PORCELAIN WALL TILE. (PT-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
- 19 PORCELAIN WALL TILE. (PT-2) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
- 20 PORCELAIN WALL TILE. (PT-3) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
- 21 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.
- 22 HDBRD SIM. REFER TO MOUNTING HEIGHT ON ELEVATION.
- 23 GYPSUM BOARD SOFFIT. PAINT P-2.
- 24 DORM LOCKERS (PL-1).
- 25 WALL-HUNG TV CASEWORK. REFER TO SHEET A8.6 FOR DETAILS.

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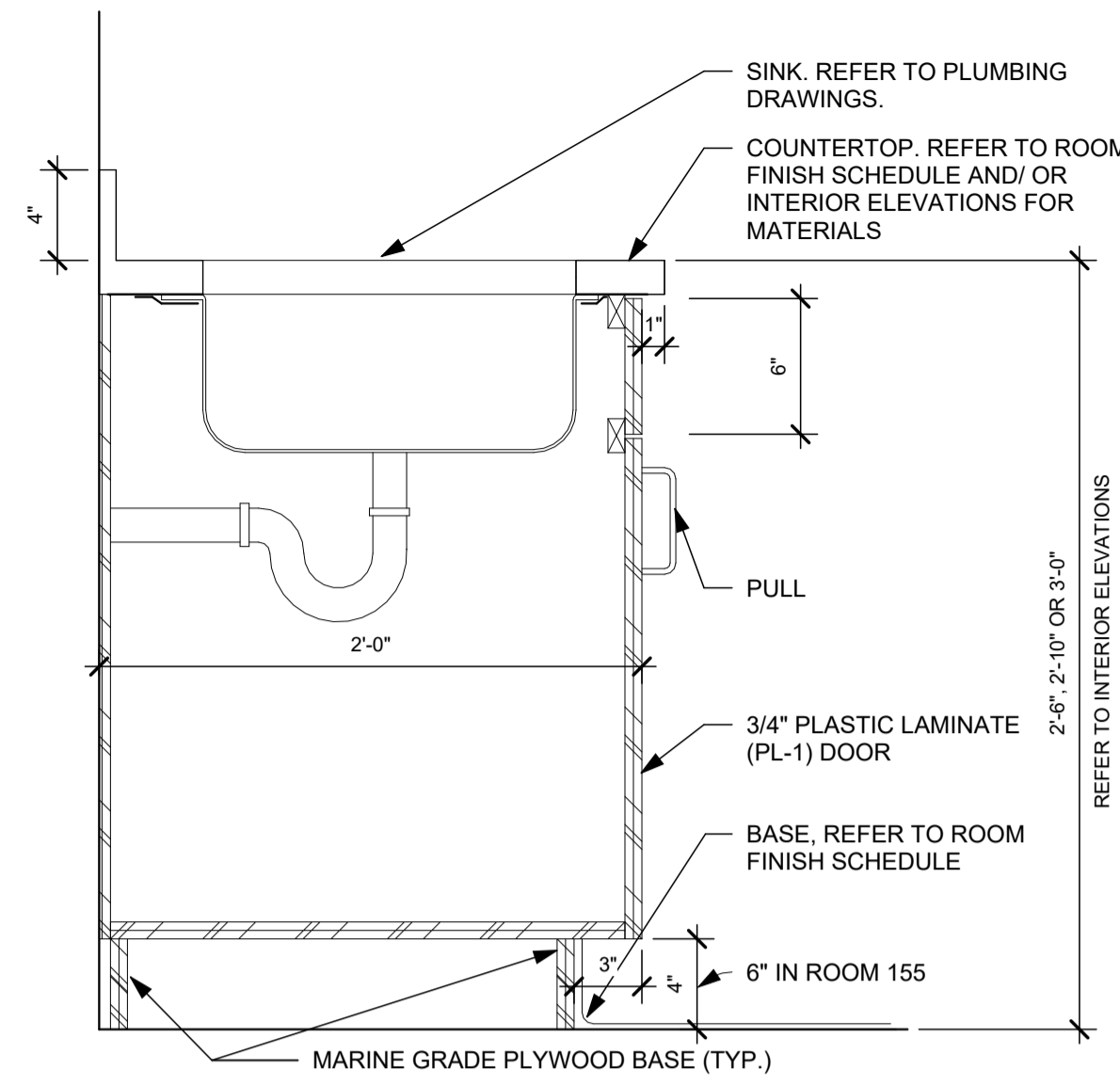
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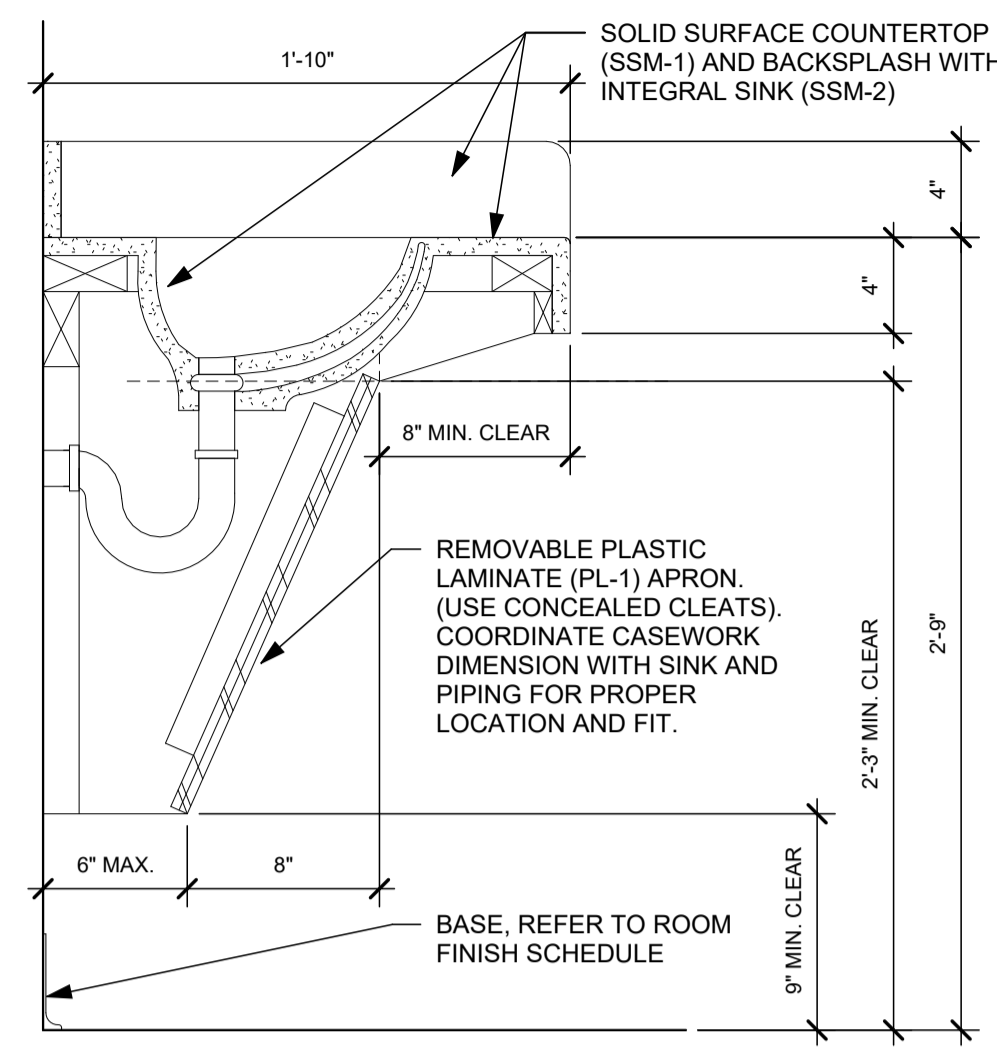
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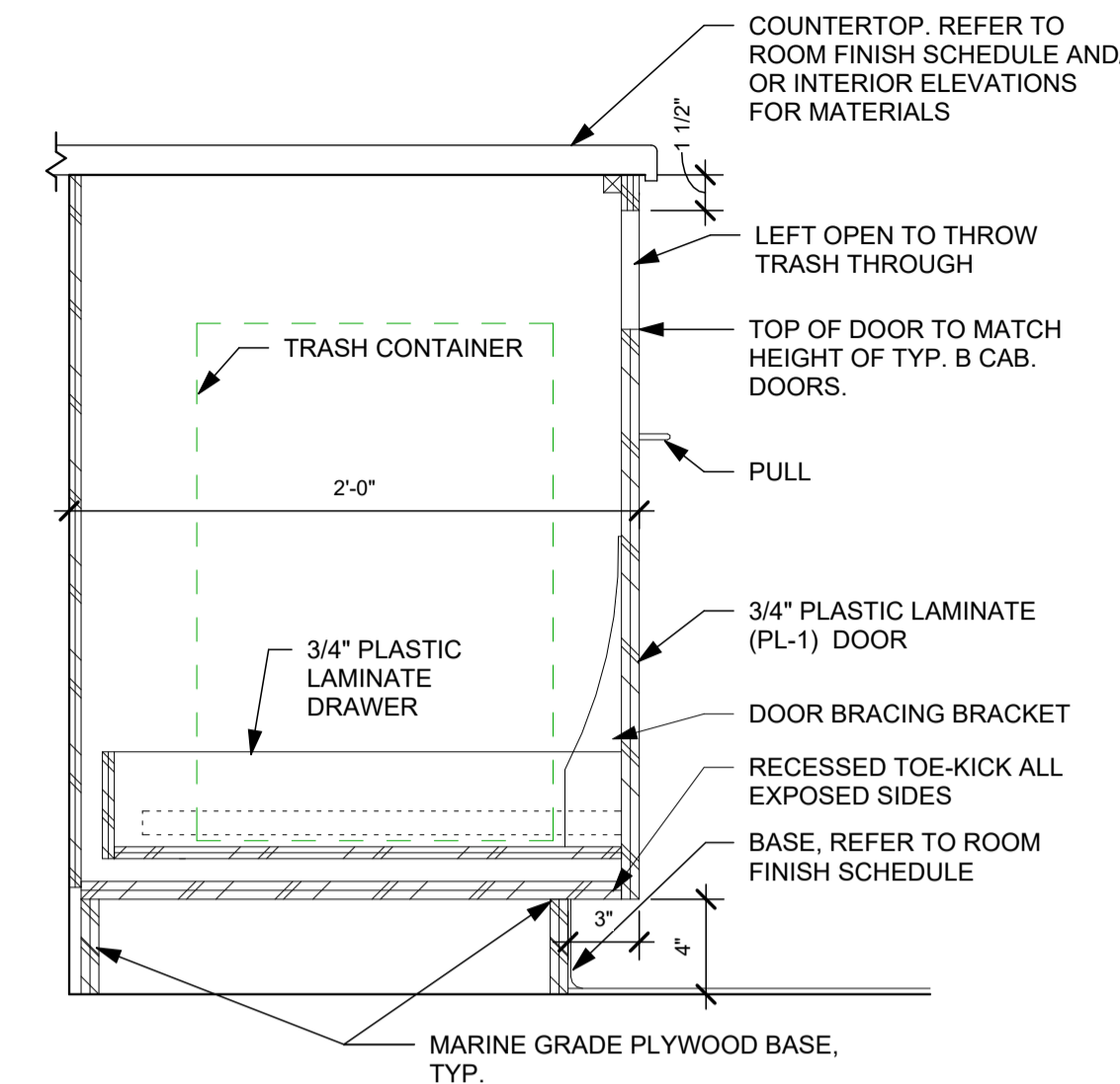
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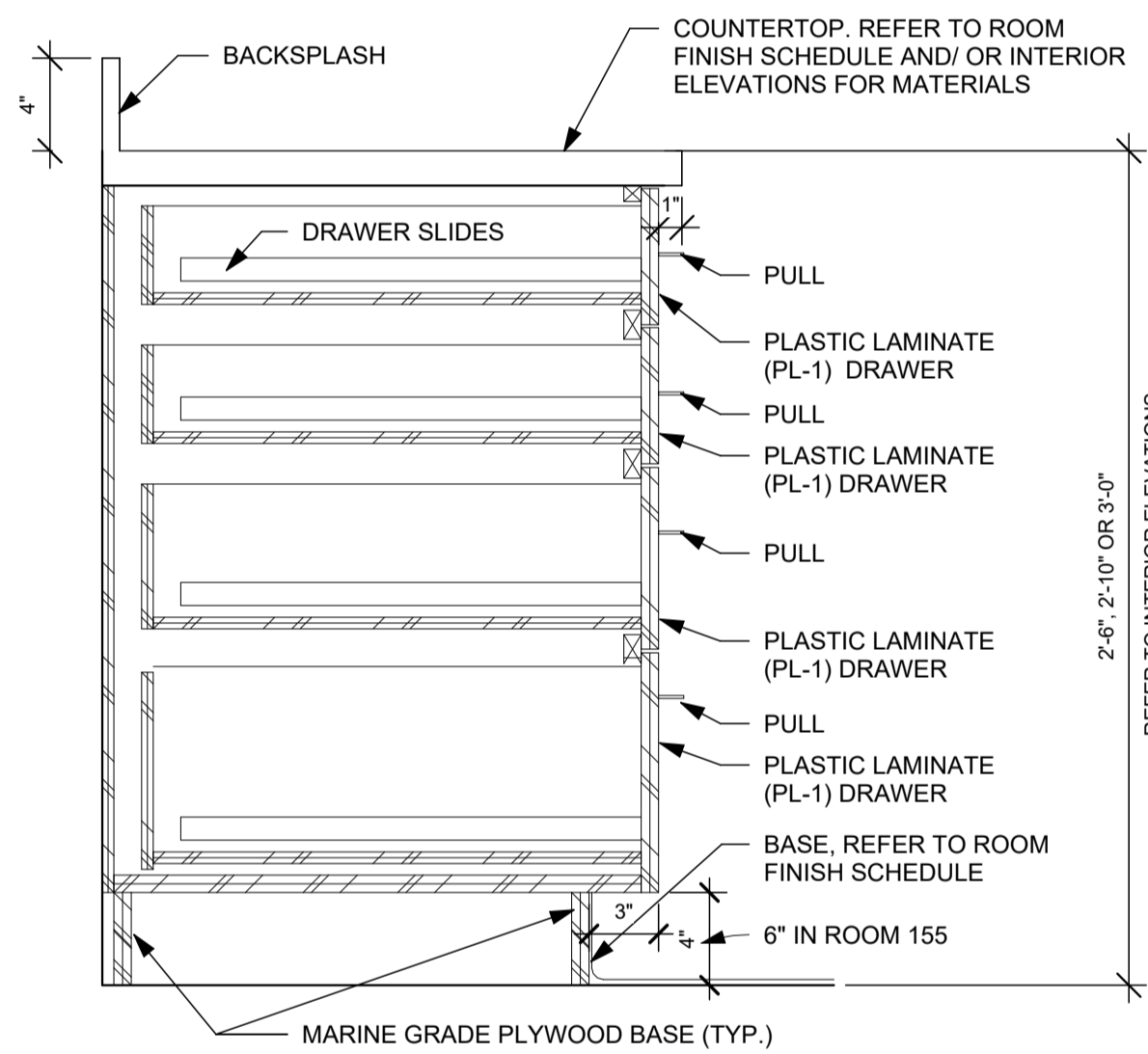
B1 TYP. SINK BASE CABINET (SB) DETAIL
1 1/2" = 1'-0"



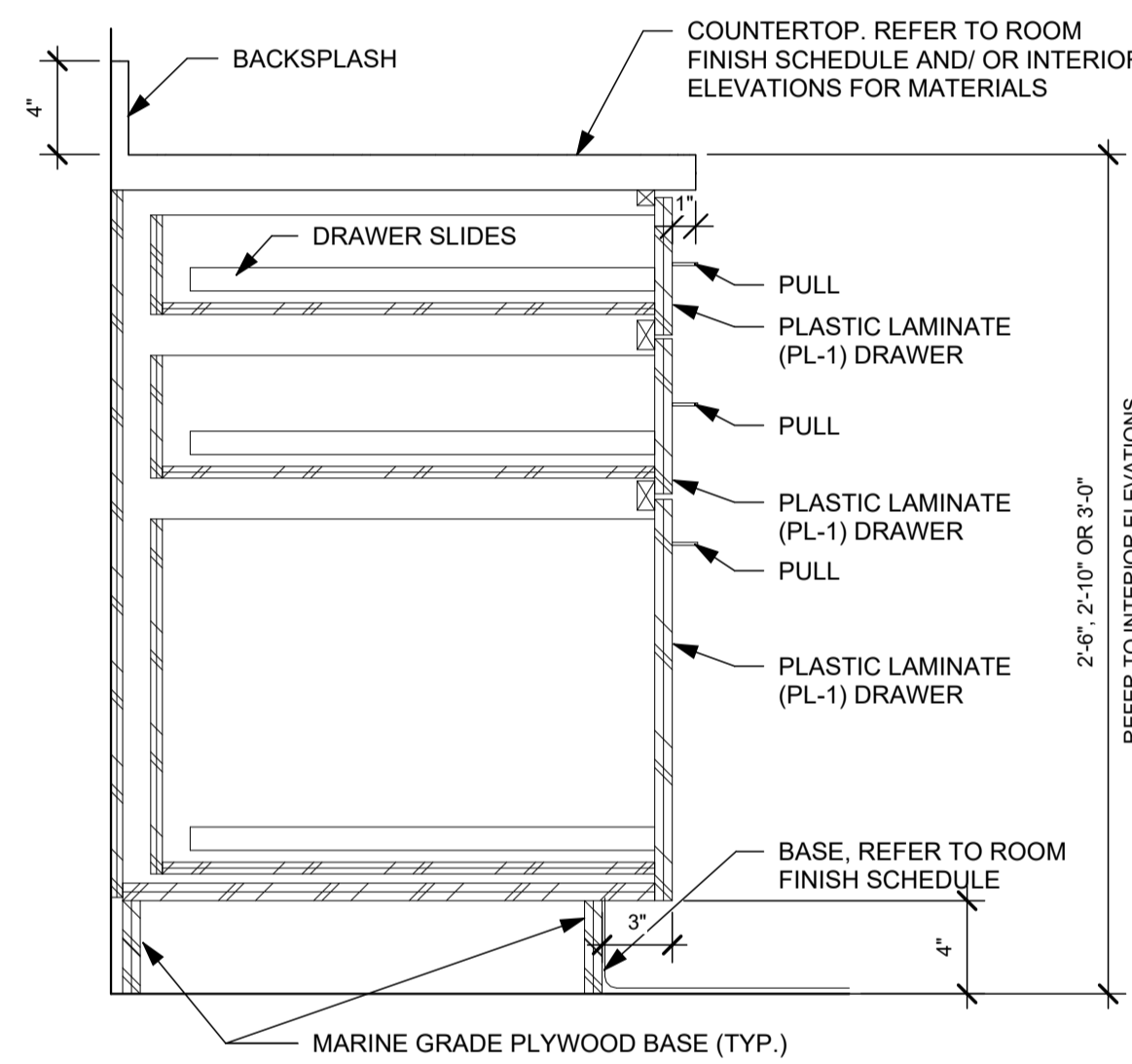
B3 ADA SINK (SADA) DETAIL
1 1/2" = 1'-0"



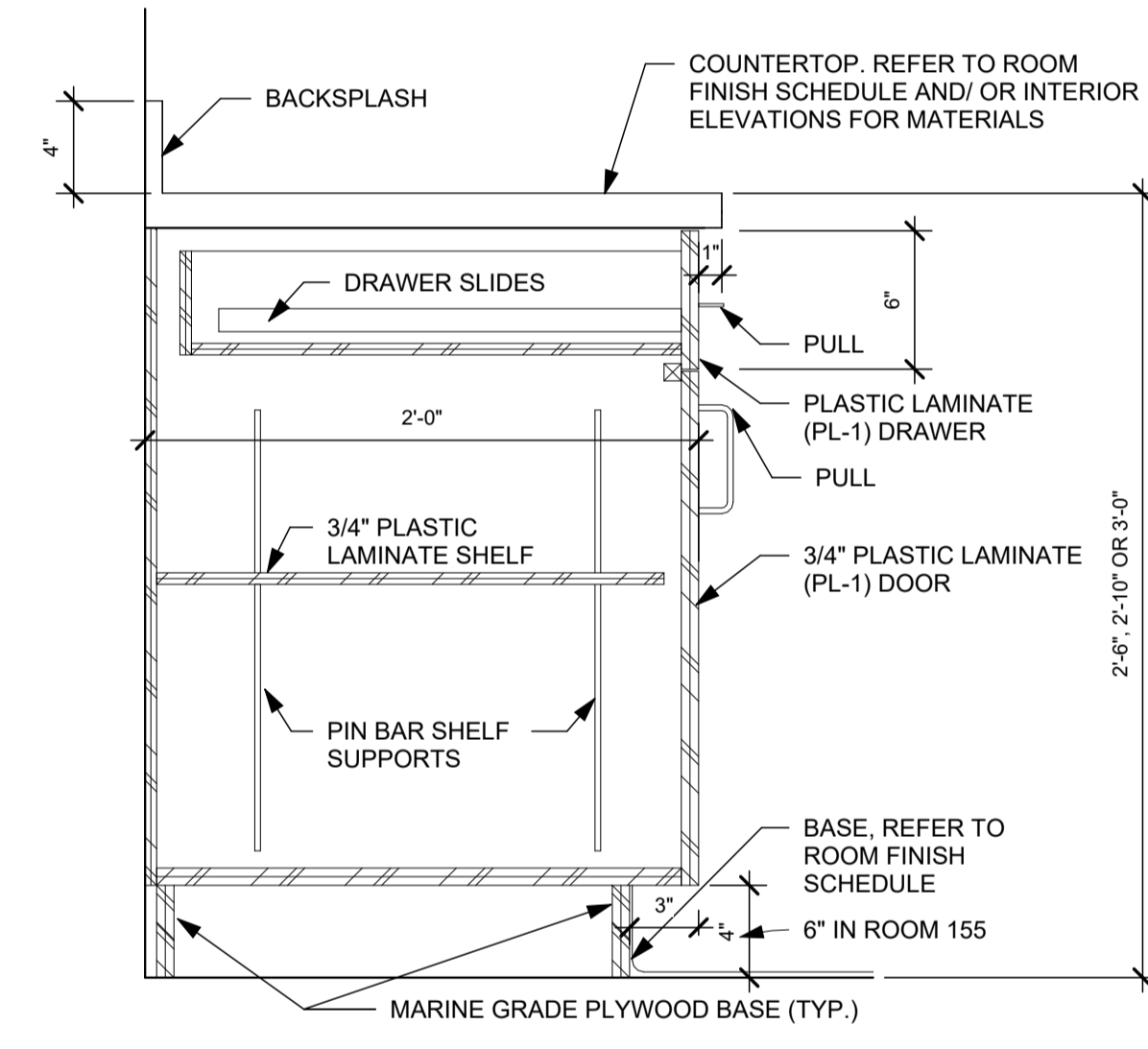
B4 TYP. TRASH BASE CABINET (BT) DETAIL
1 1/2" = 1'-0"



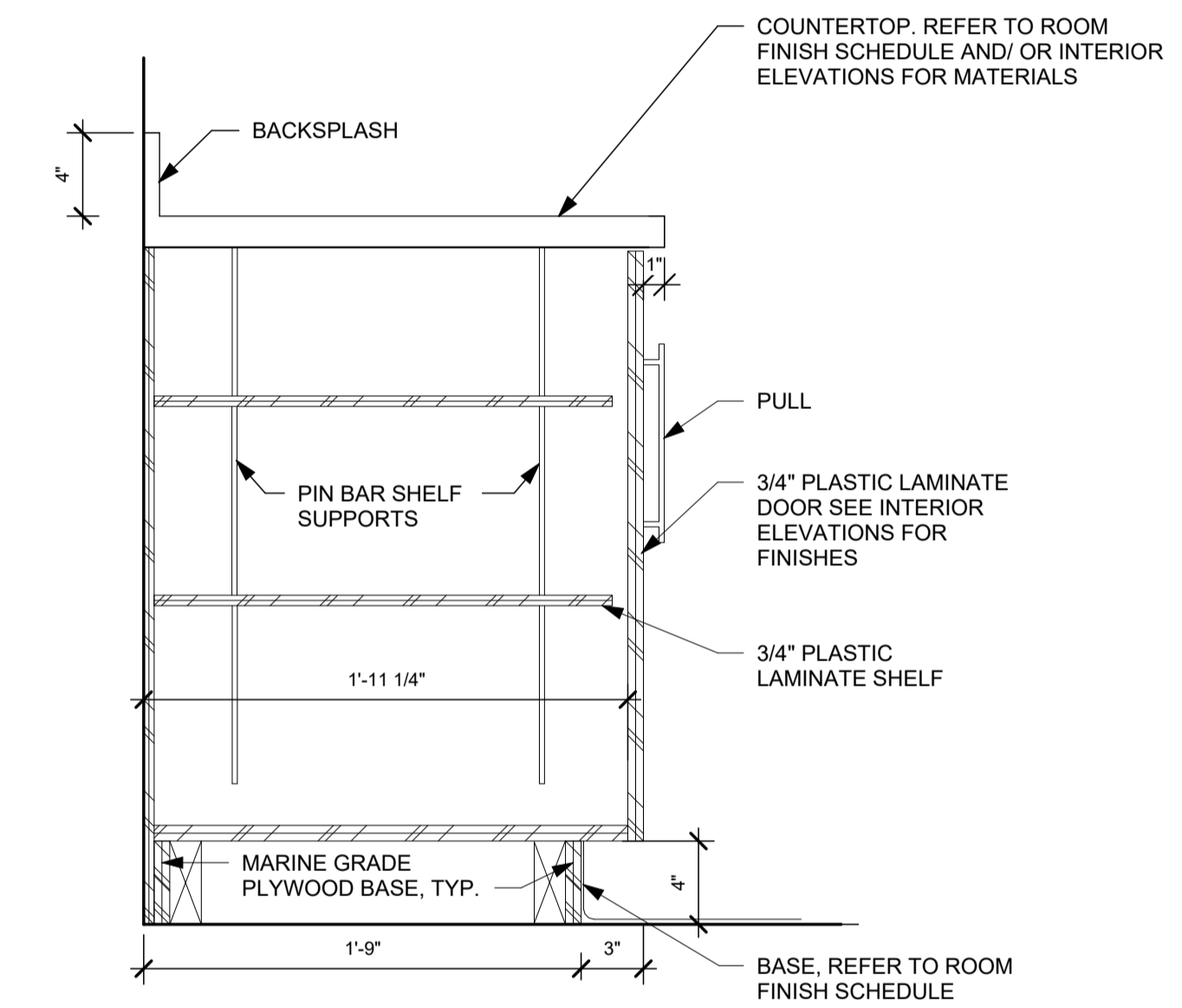
D1 4-DRAWER BASE CABINET (4BD) DETAIL
1 1/2" = 1'-0"



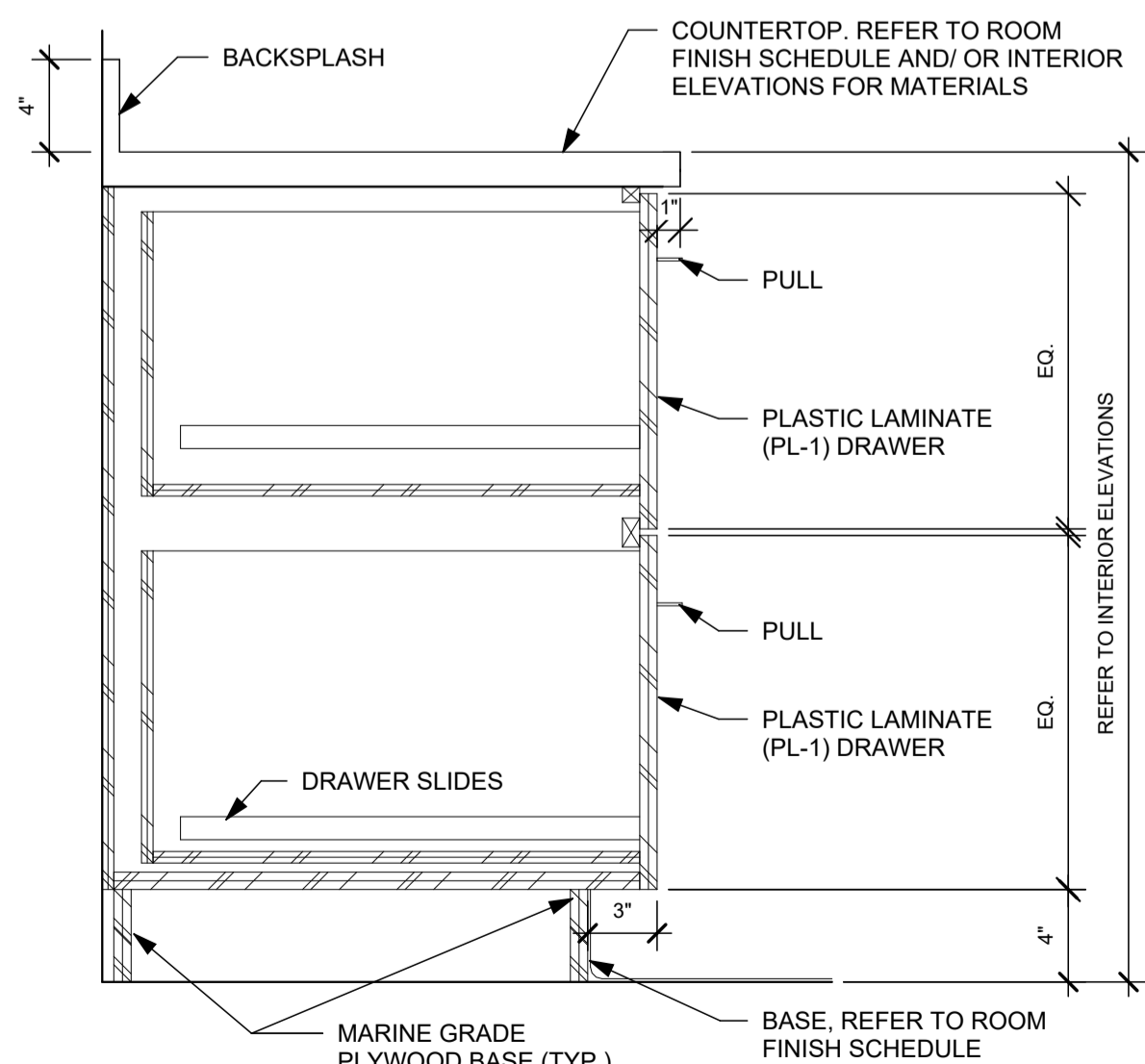
D3 3-DRAWER BASE CABINET (3BD) DETAIL
1 1/2" = 1'-0"



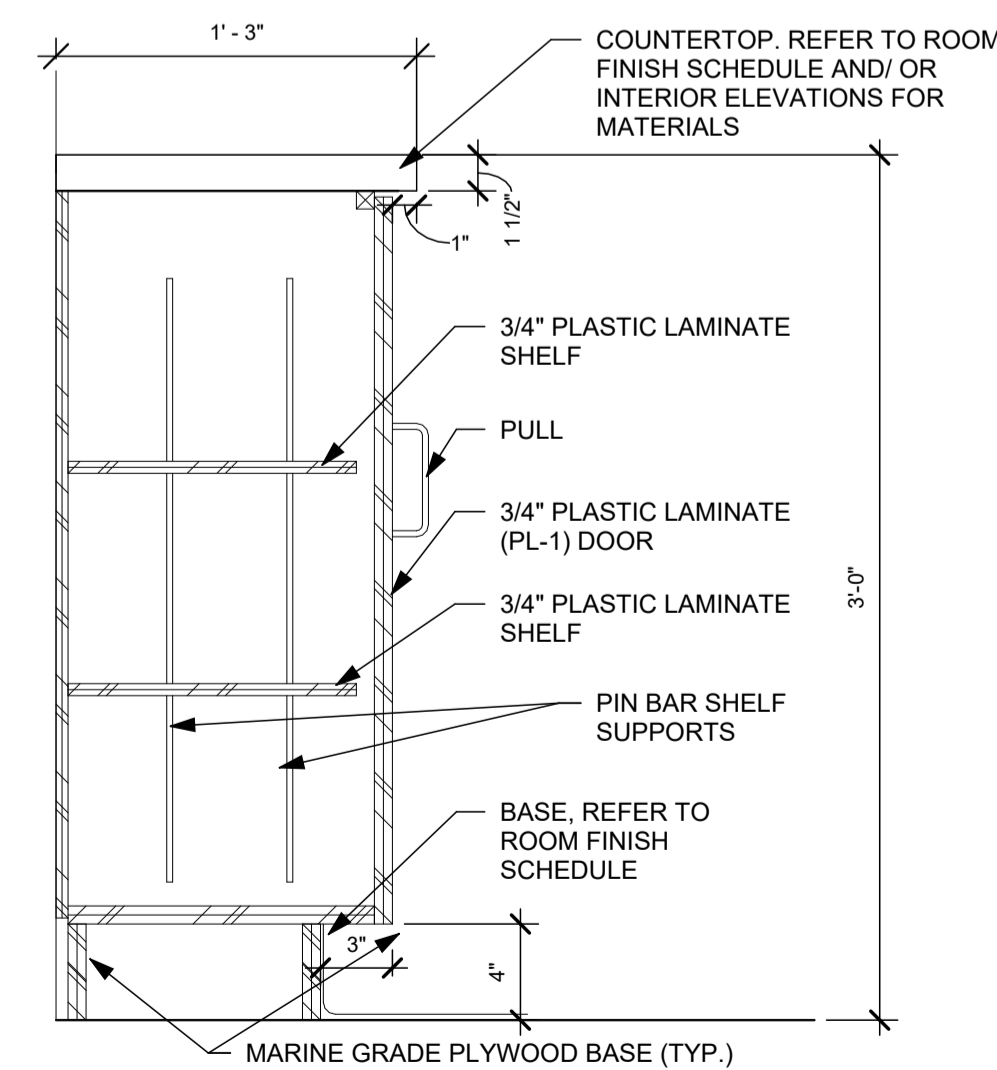
D4 TYP. BASE CABINET (B) DETAIL
1 1/2" = 1'-0"



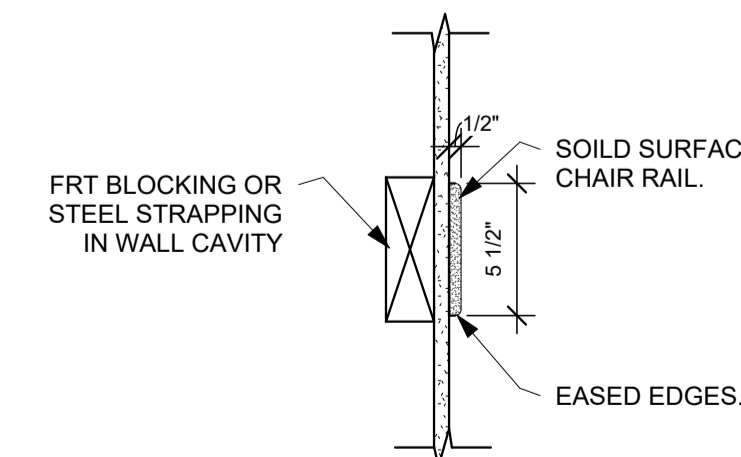
D6 BASE CABINET DETAIL (BC)
1 1/2" = 1'-0"



F1 BASE FILE CABINET (BFC) DETAIL
1 1/2" = 1'-0"



F3 ENTERTAINMENT CABINET (ET)
1 1/2" = 1'-0"

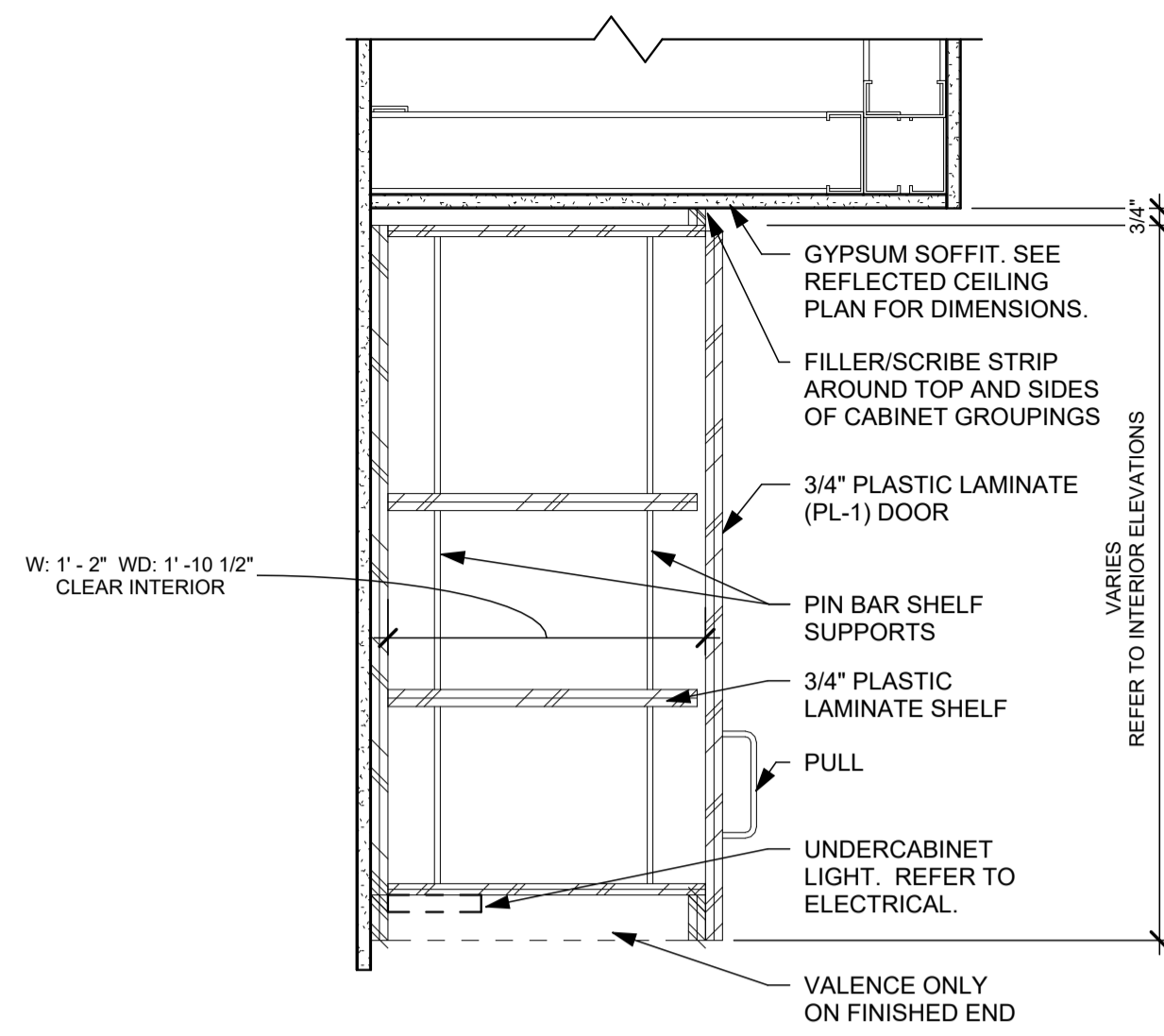


F4 SOLID SURFACE CHAIR RAIL
1 1/2" = 1'-0"

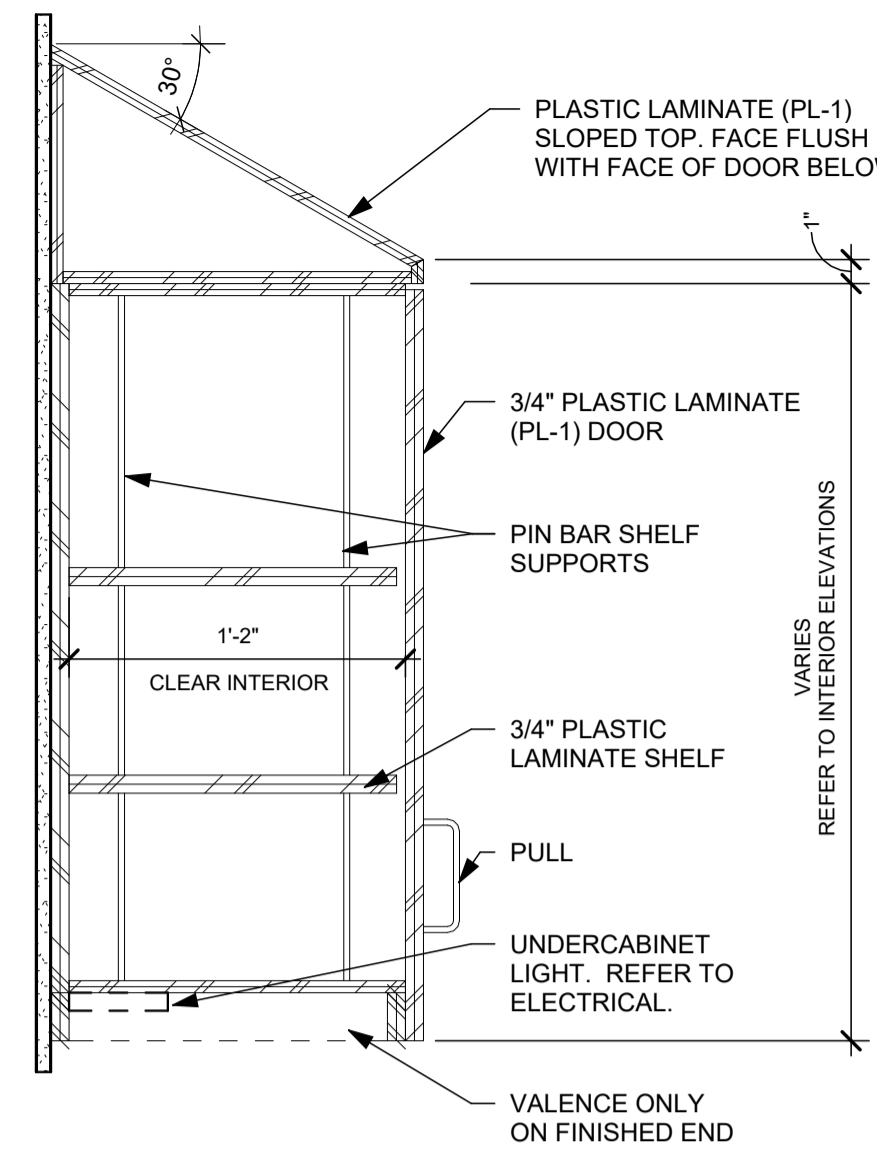
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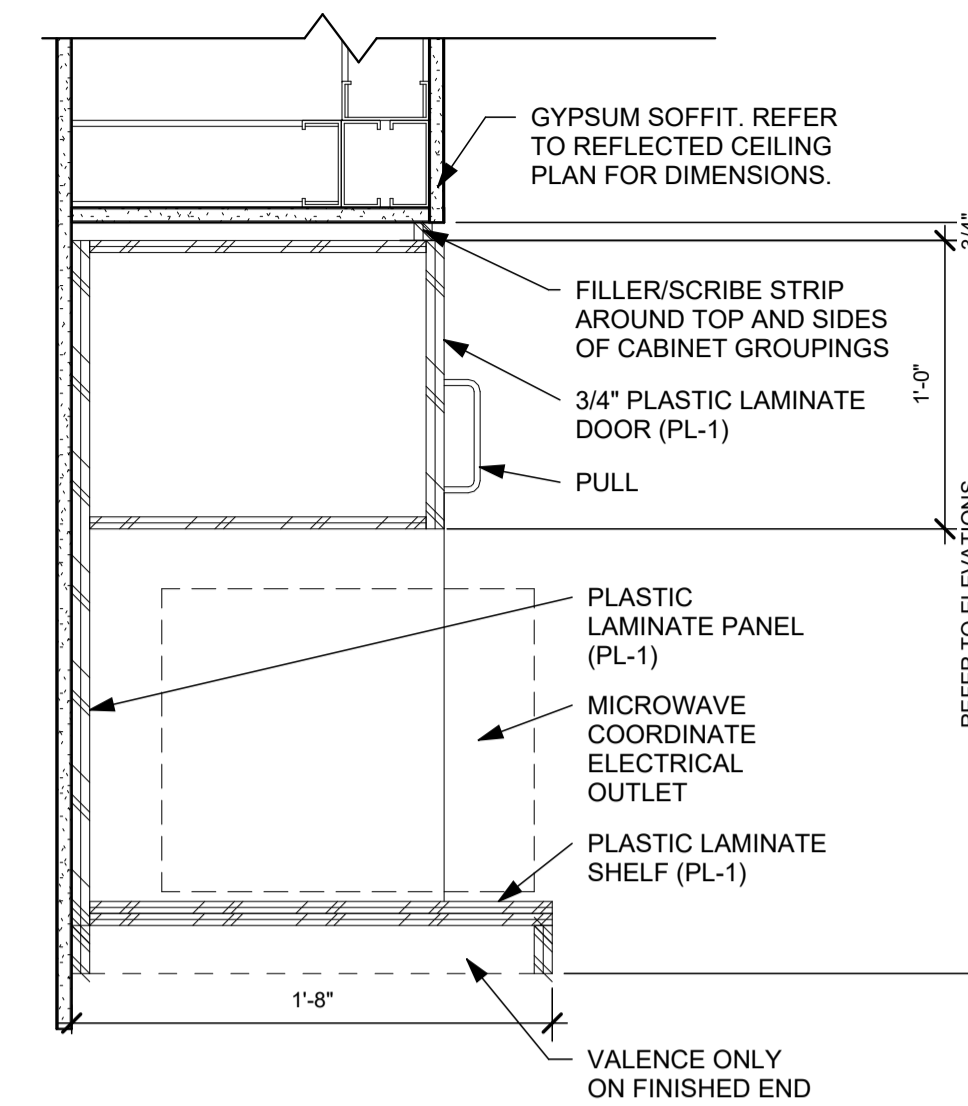
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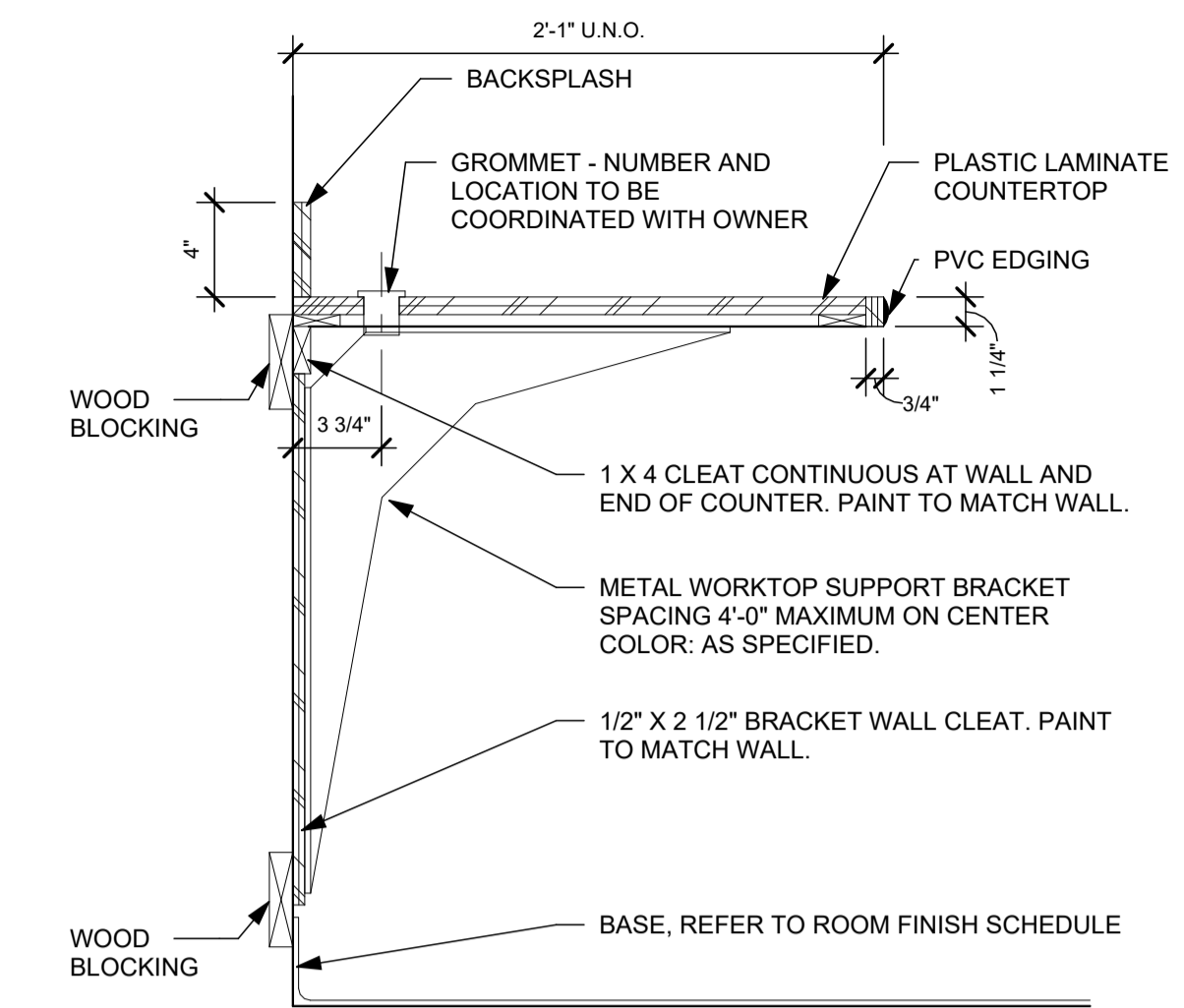
B1 WALL CABINET (W) AT SOFFIT
1 1/2" = 1'-0"



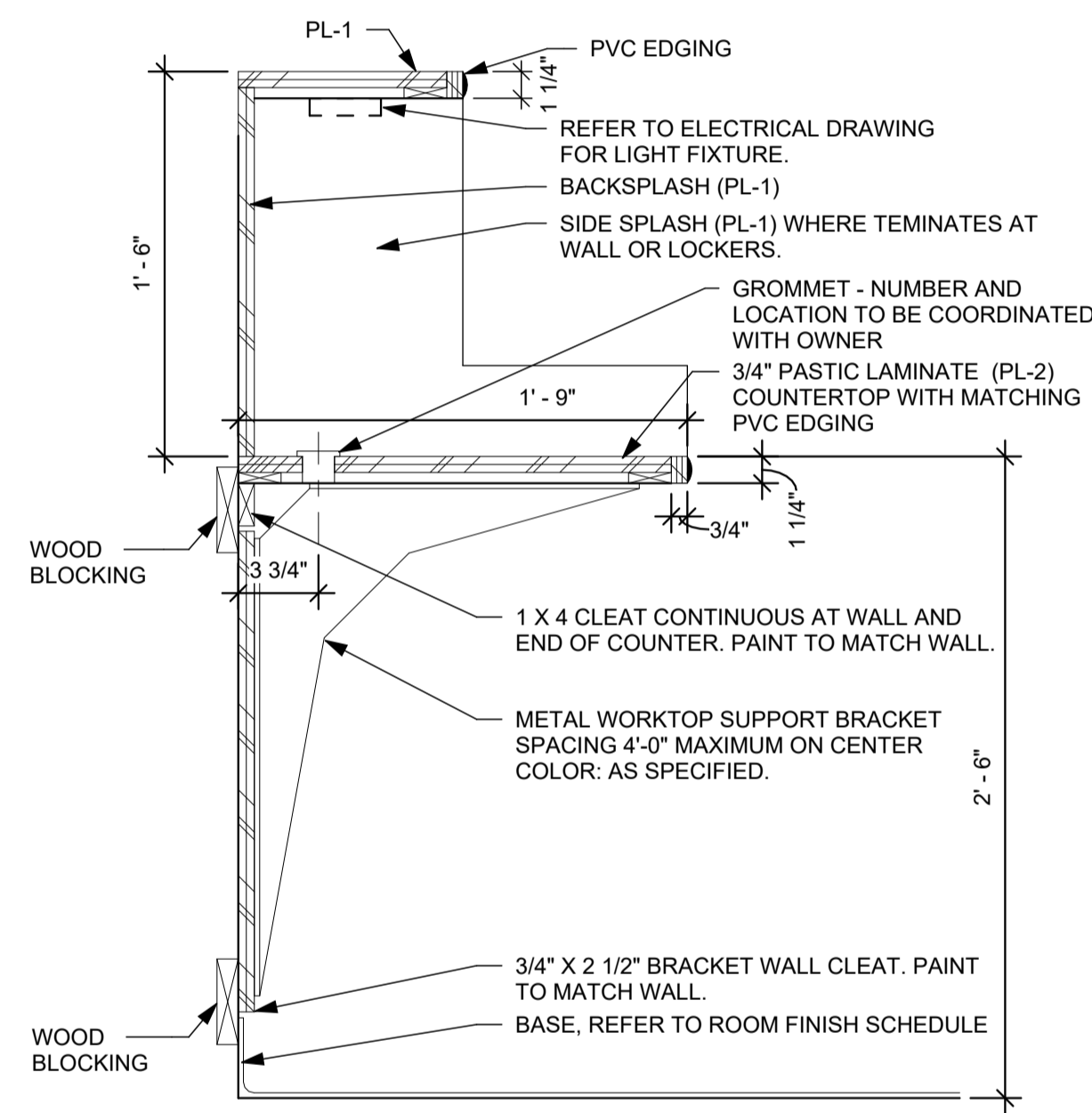
B3 WALL CABINET (W) DETAIL
1 1/2" = 1'-0"



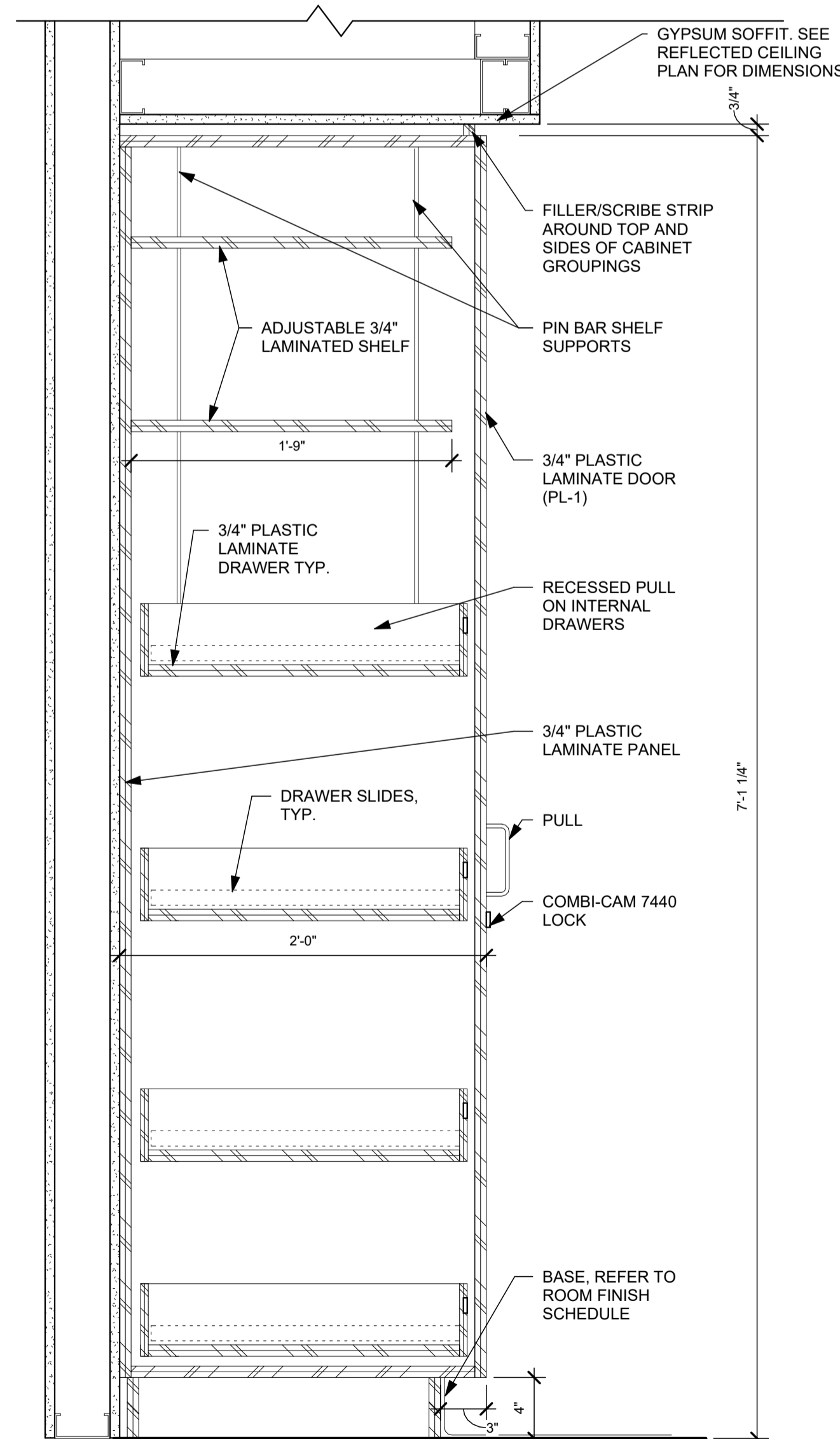
B4 MICROWAVE CABINET (MW) DETAIL
1 1/2" = 1'-0"



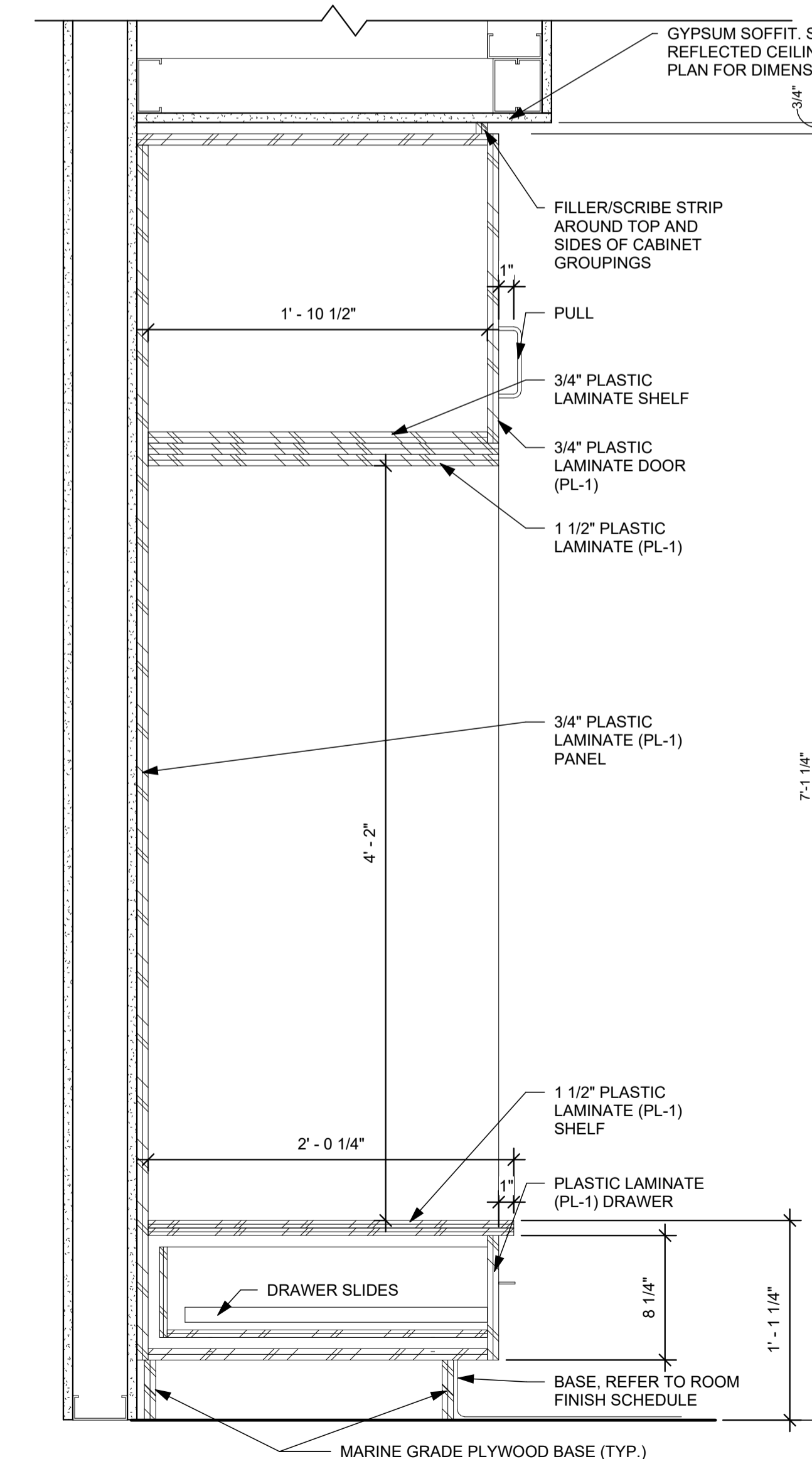
B6 TYP. WORK SURFACE DETAIL
1 1/2" = 1'-0"



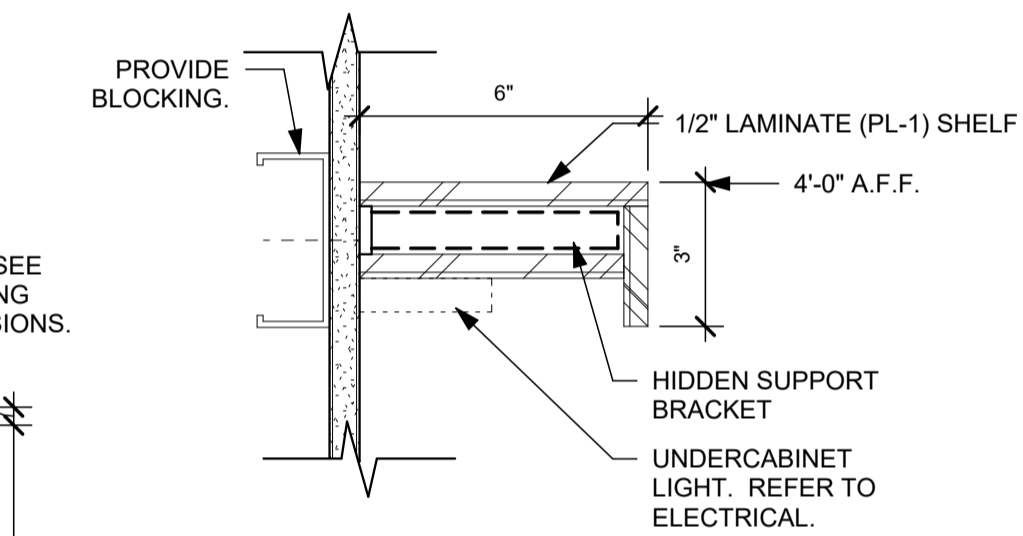
D1 TYP. DORM WORK SURFACE (DSK) DETAIL
1 1/2" = 1'-0"



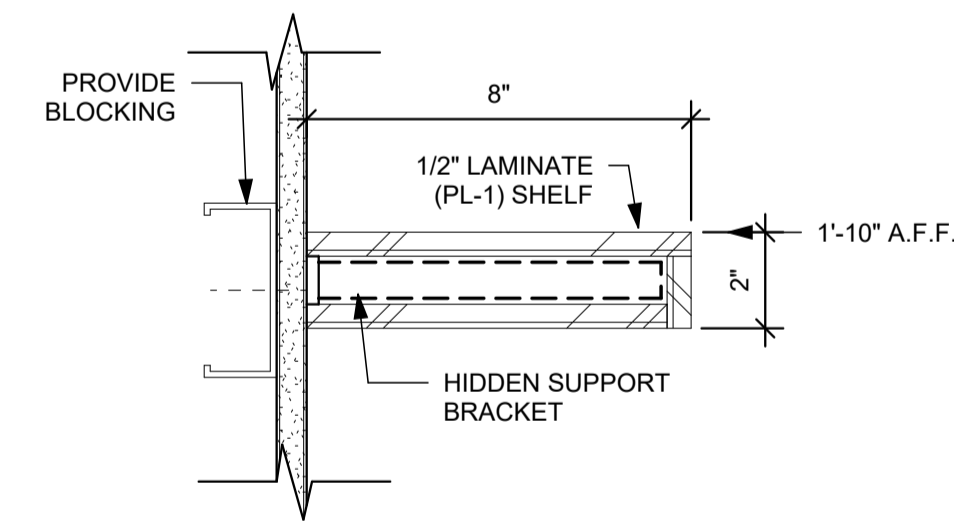
F3 PANTRY CABINET (PC) DETAIL
1 1/2" = 1'-0"



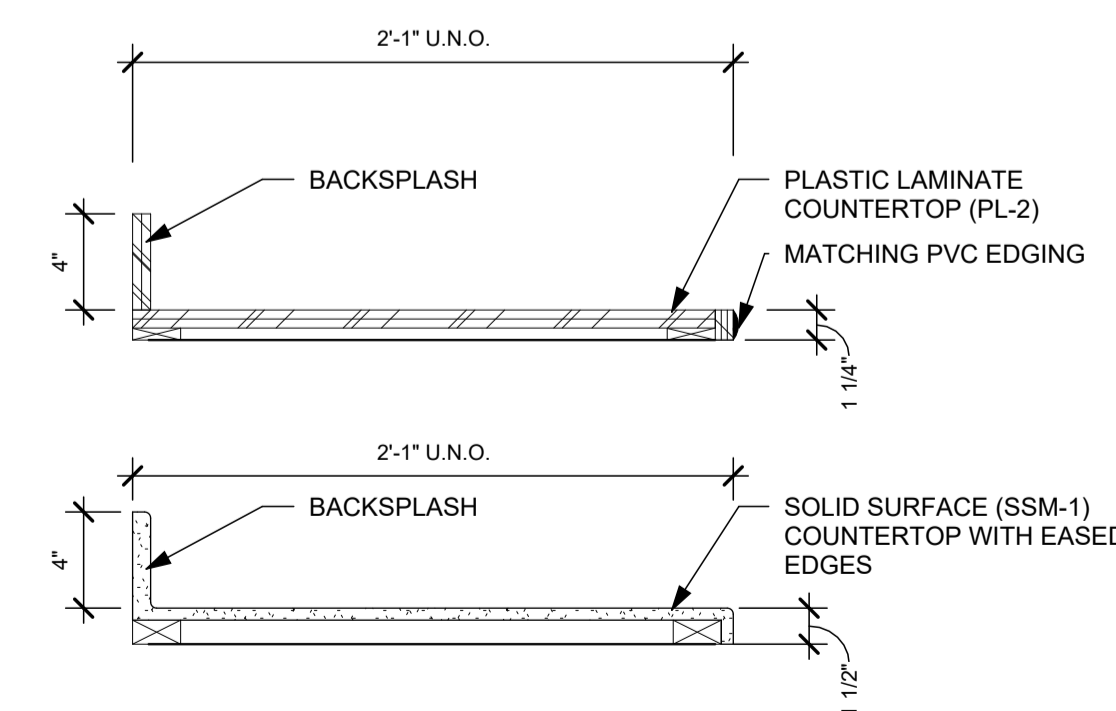
F4 WALL OVEN CABINET (WO) DETAIL
1 1/2" = 1'-0"



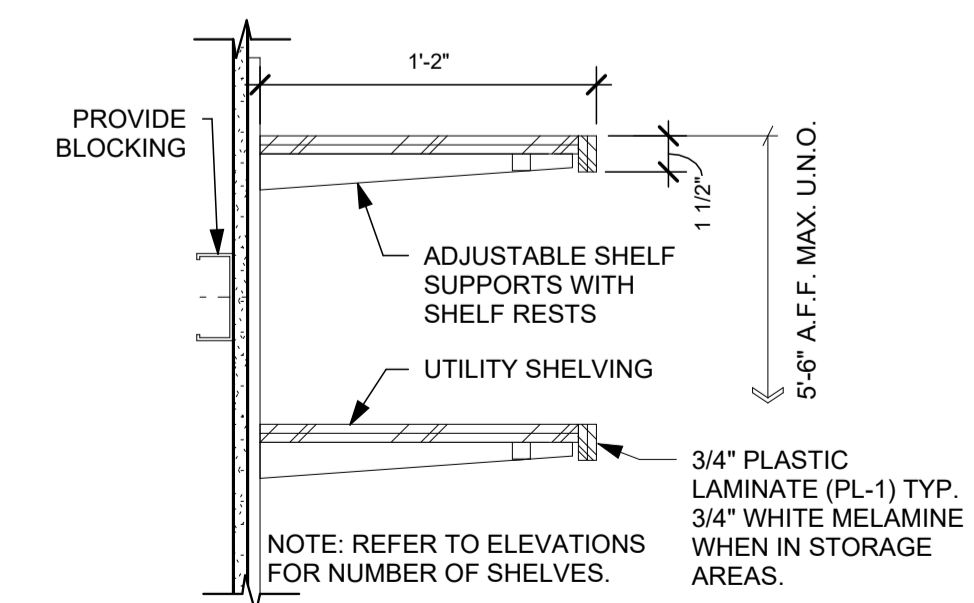
D6 DORM HEADBOARD SHELF (HDBRD) DETAIL
3" = 1'-0"



E6 DORM NIGHT STAND SHELF (NSTND) DETAIL
3" = 1'-0"



F1 TYP. COUNTER DETAILS
1 1/2" = 1'-0"



F6 ADJUSTABLE SHELVING (ADJS) DETAIL
1 1/2" = 1'-0"

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SHEET NO.
A8.2

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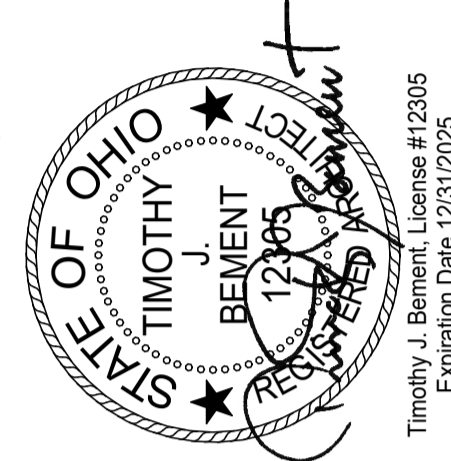
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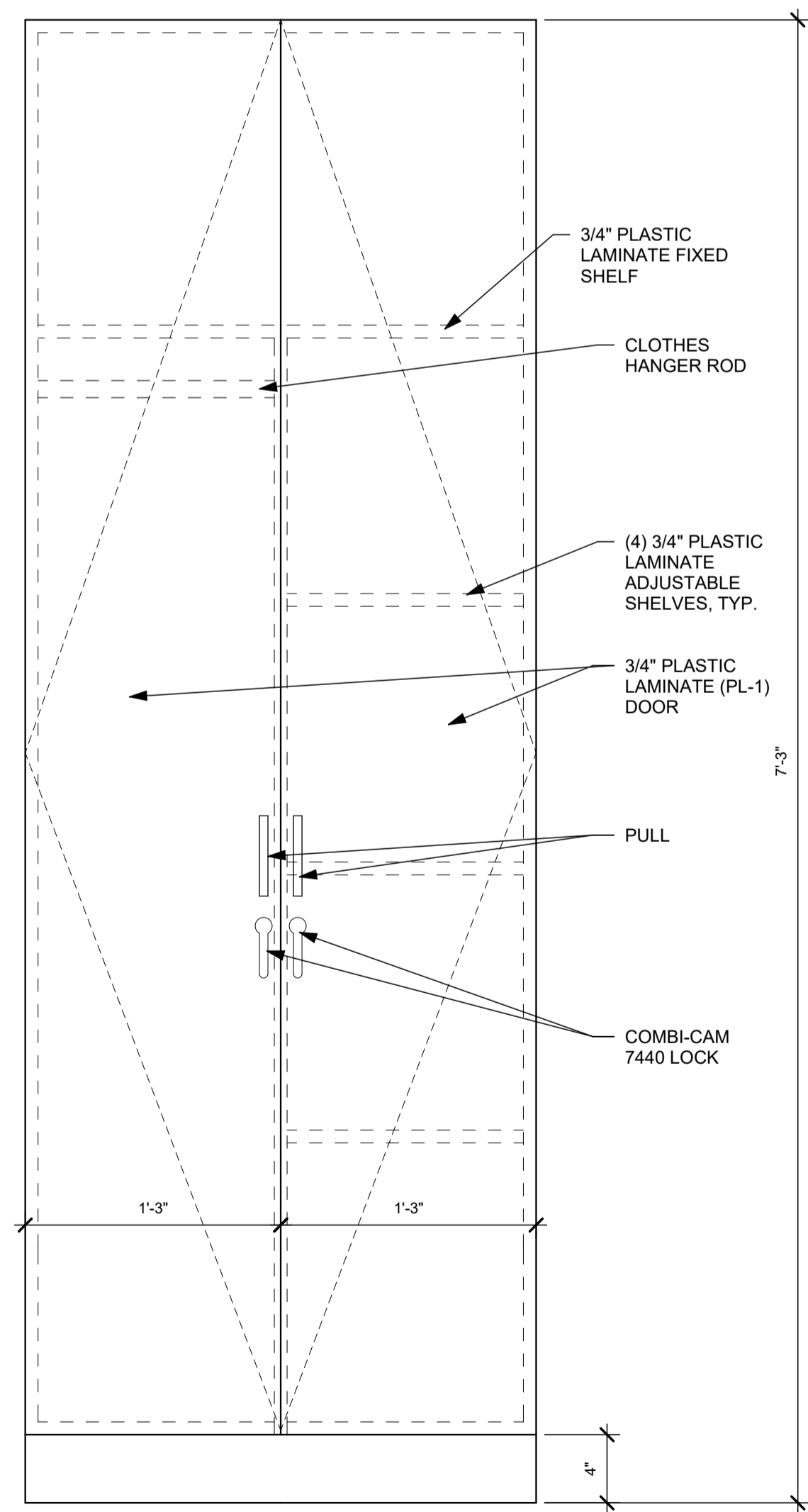


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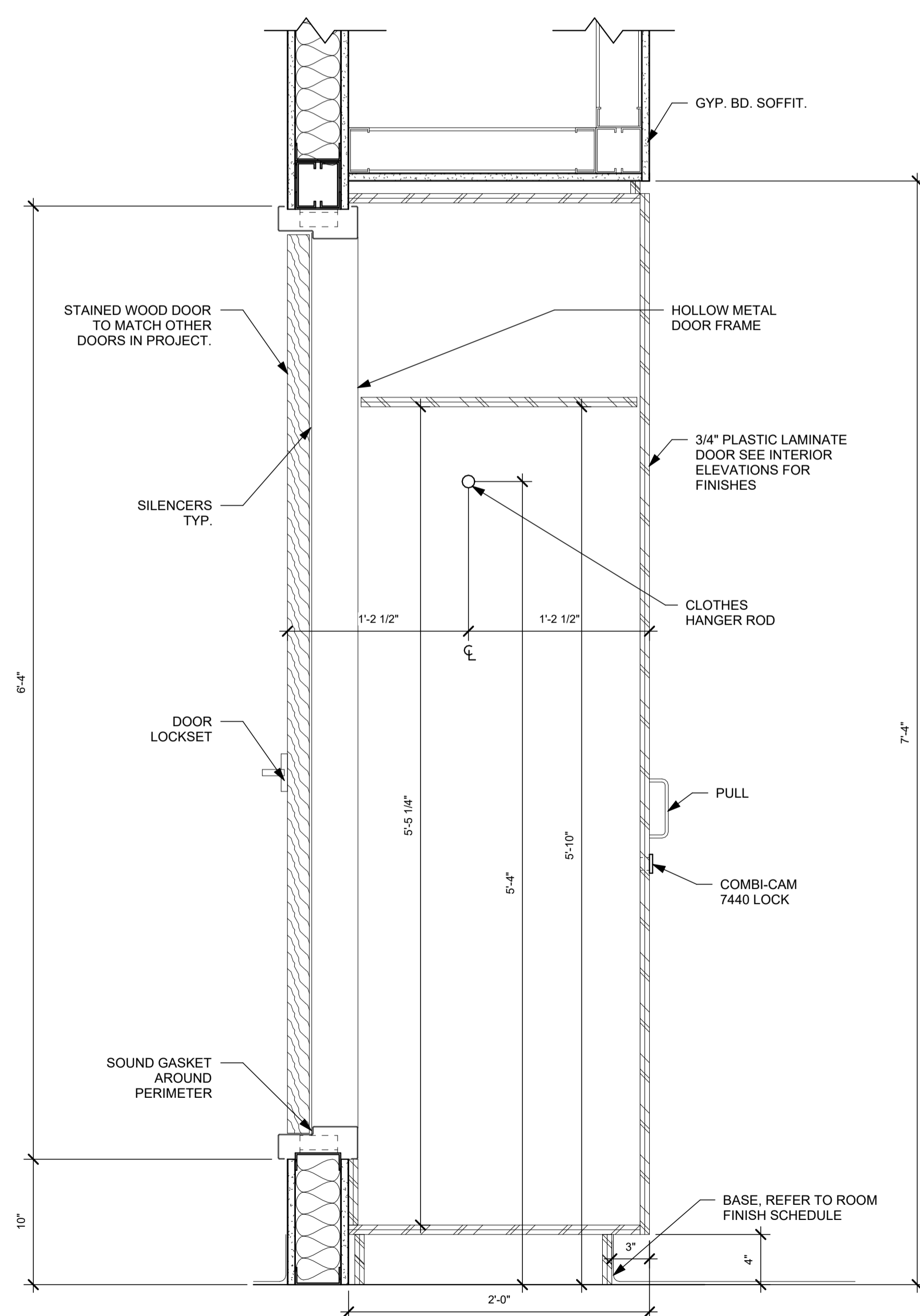
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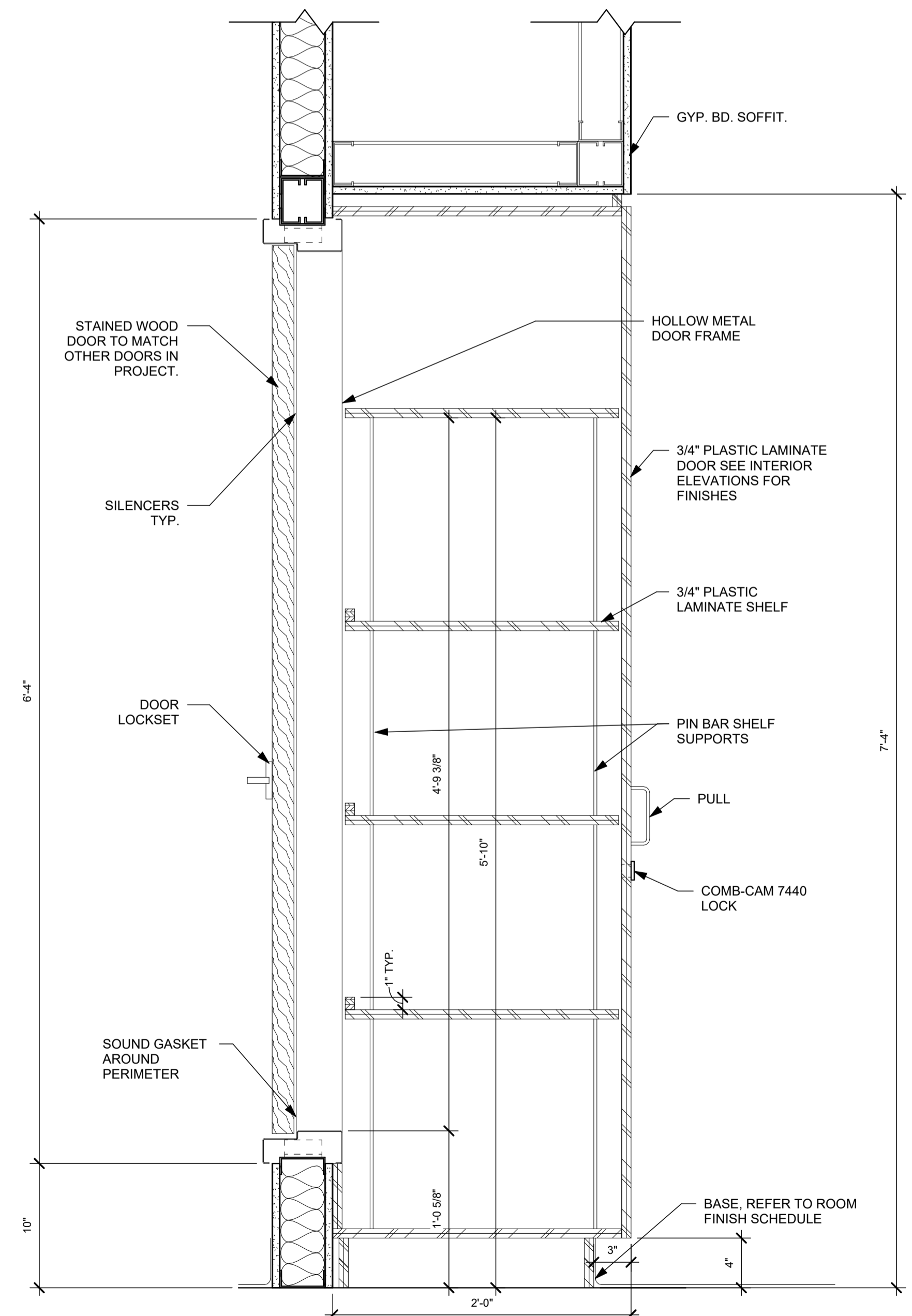
SHEET NO.
A8.3



F1 DORM LOCKER (DL) ELEVATION (DORM SIDE)
1 1/2" = 1'-0"



F3 DORM LOCKER (DL) - HANGER
1 1/2" = 1'-0"



F5 DORM LOCKER (DL) ELEVATION - SHELVES
1 1/2" = 1'-0"

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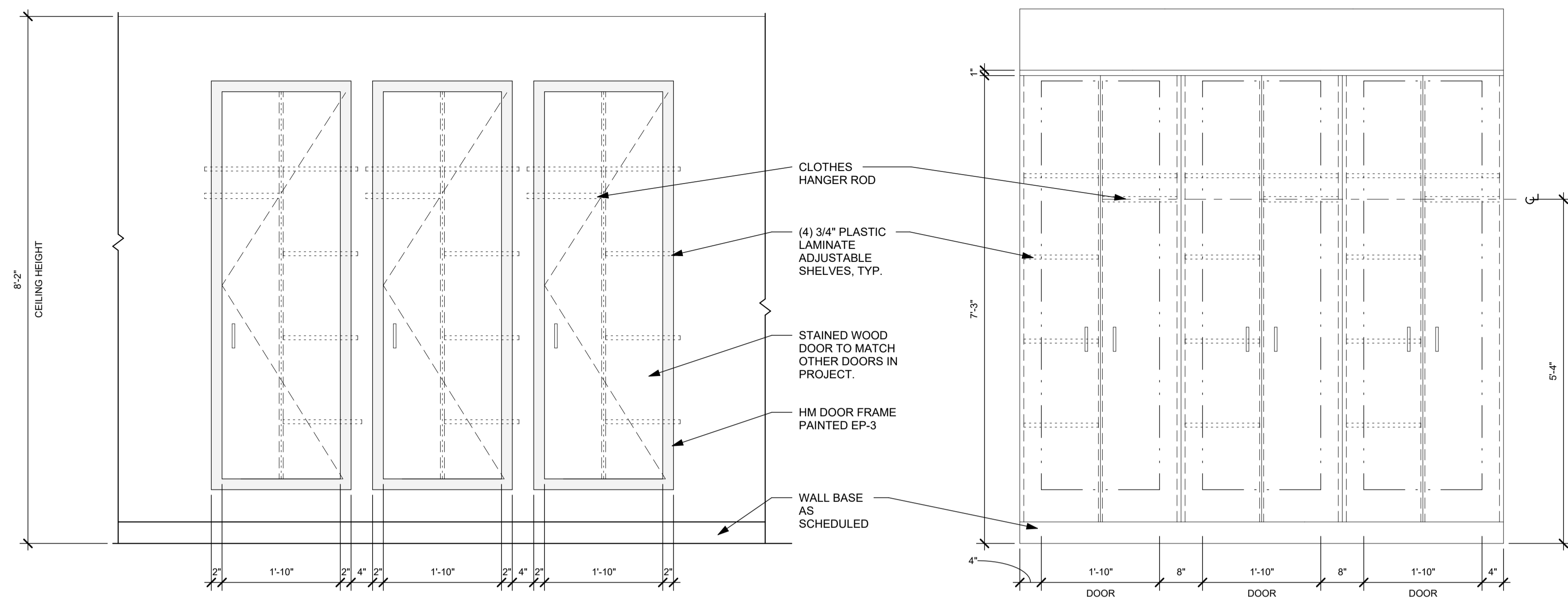
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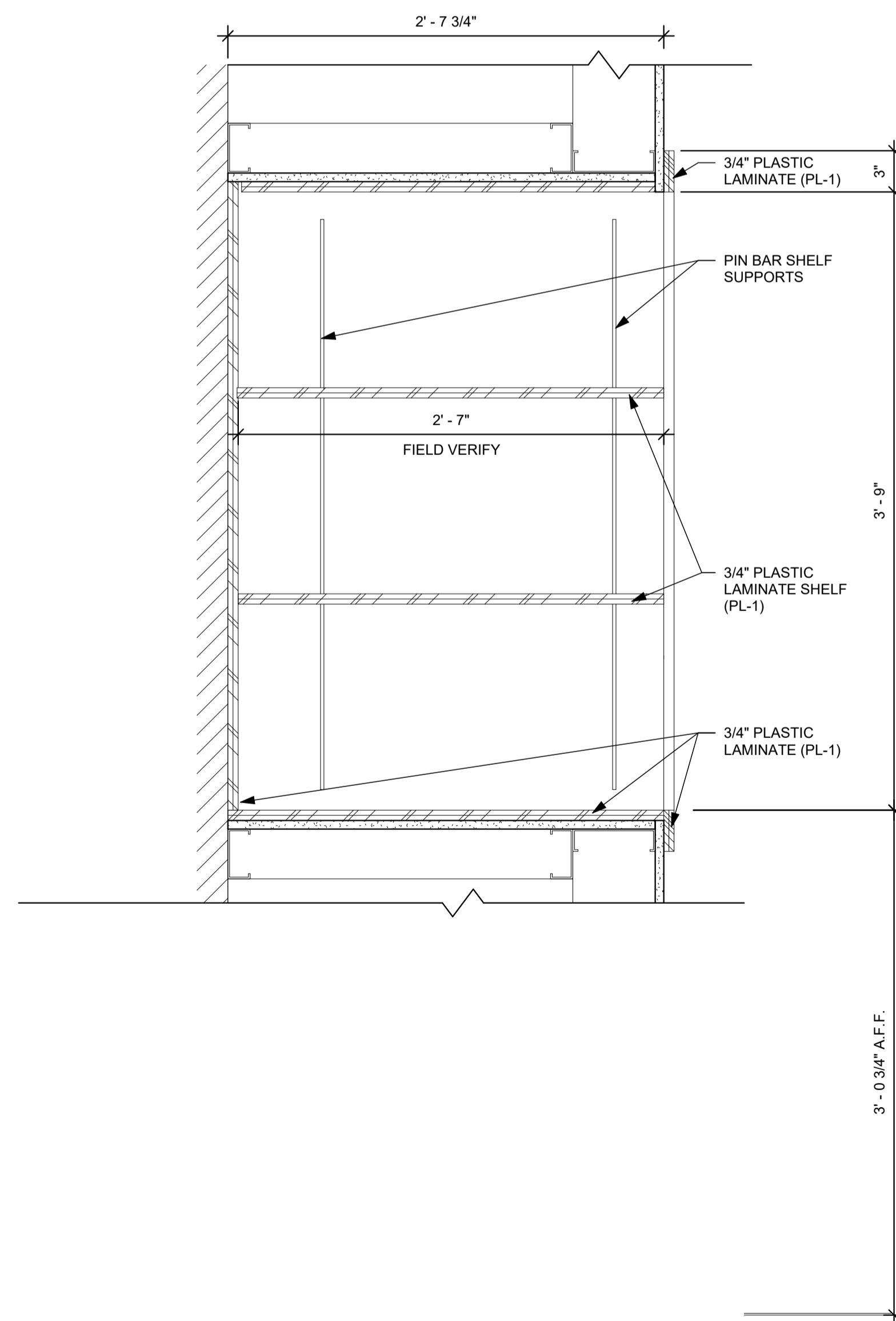
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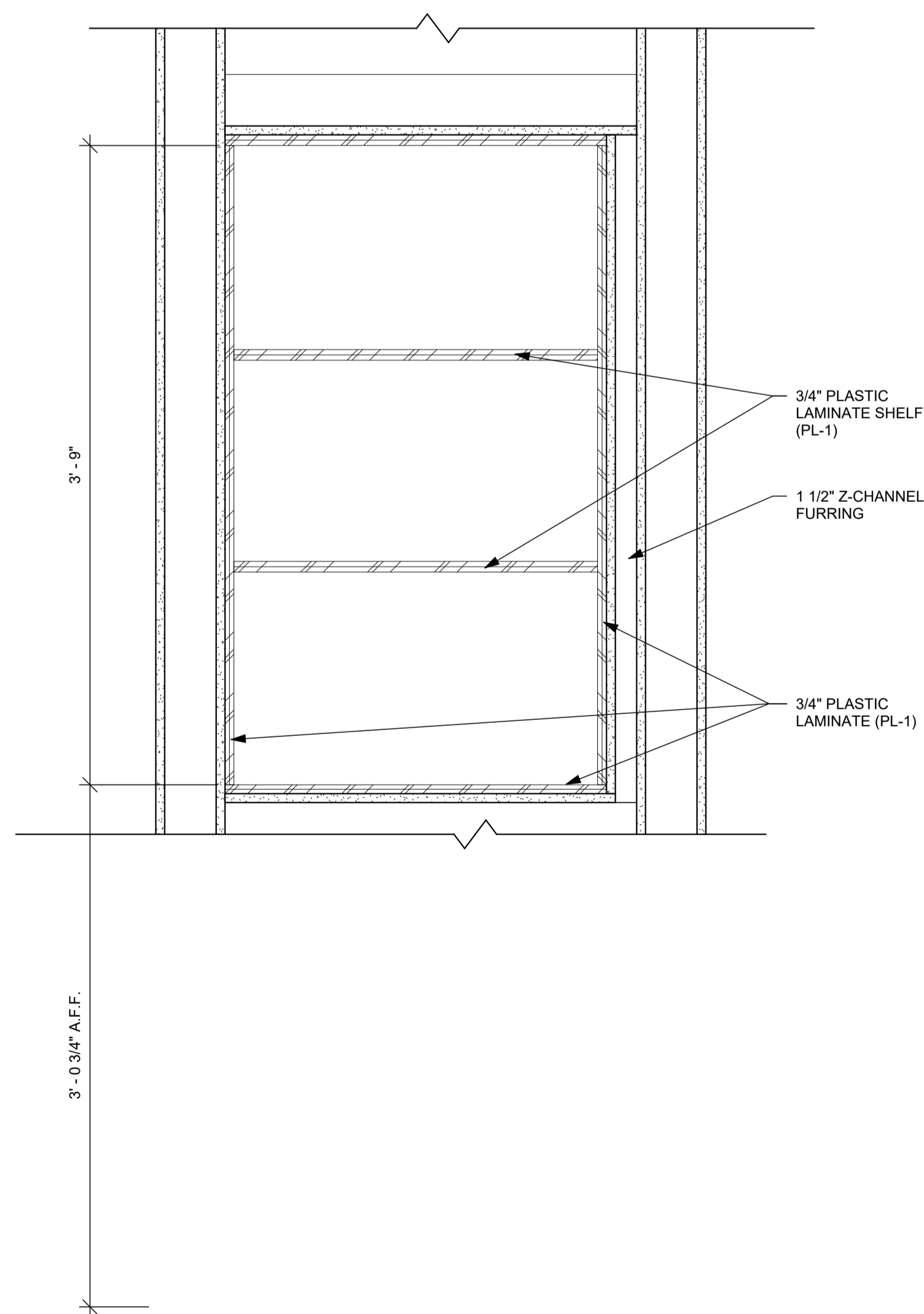
C3 DORM LOCKER (DL) ELEVATION
3/4" = 1'-0"

HALL SIDE

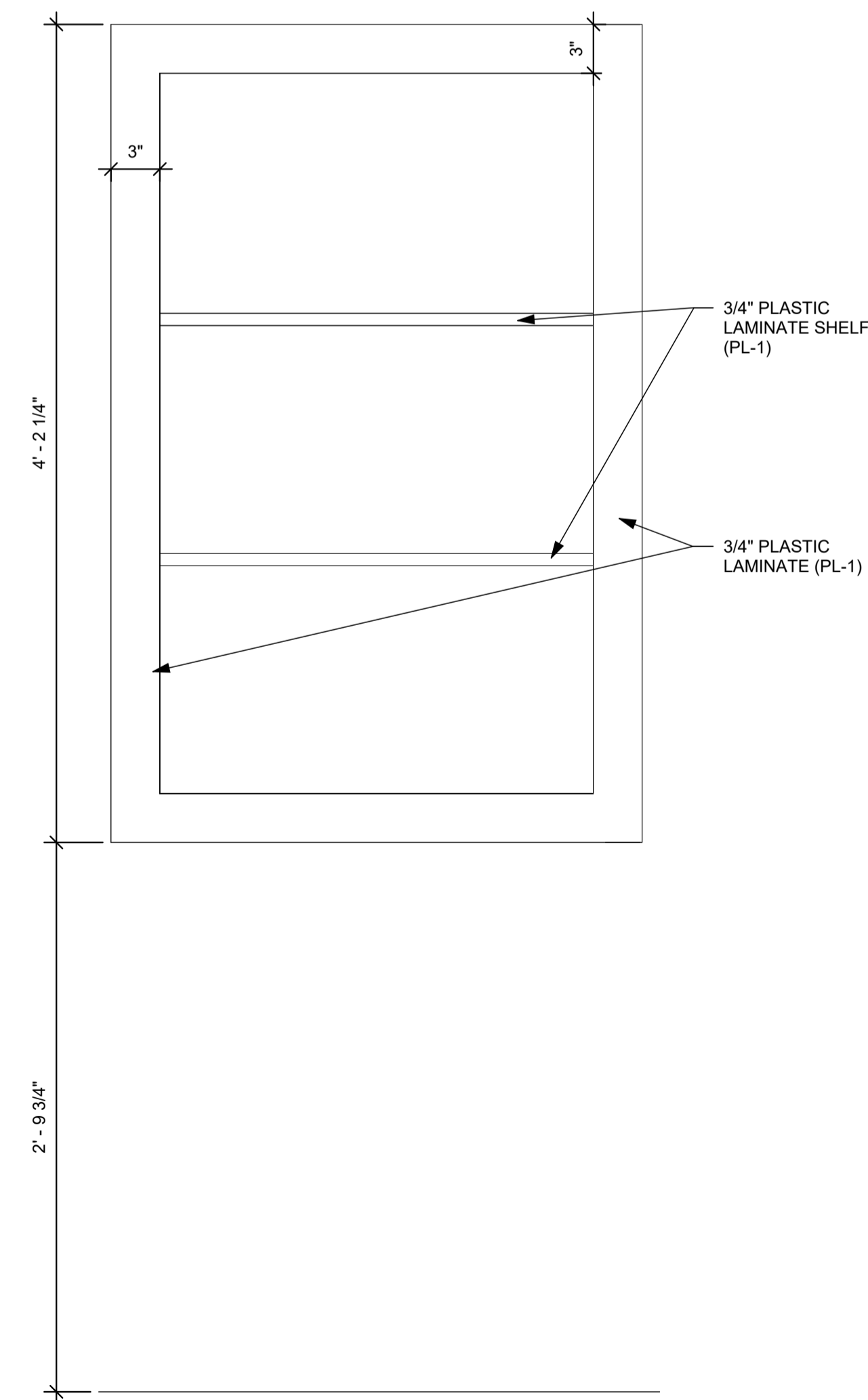
DORM SIDE



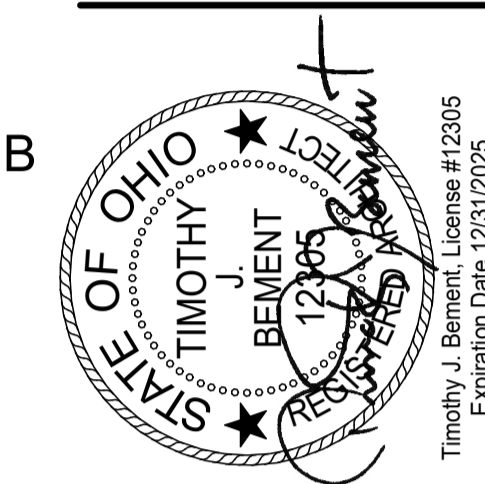
F2 OFFICER'S OFFICE SHELF DETAIL (S)
1 1/2" = 1'-0"



F4 OFFICER'S OFFICE SHELF DETAIL (S)
1 1/2" = 1'-0"



F6 OFFICER'S OFFICE SHELF DETAIL (S)
1 1/2" = 1'-0"



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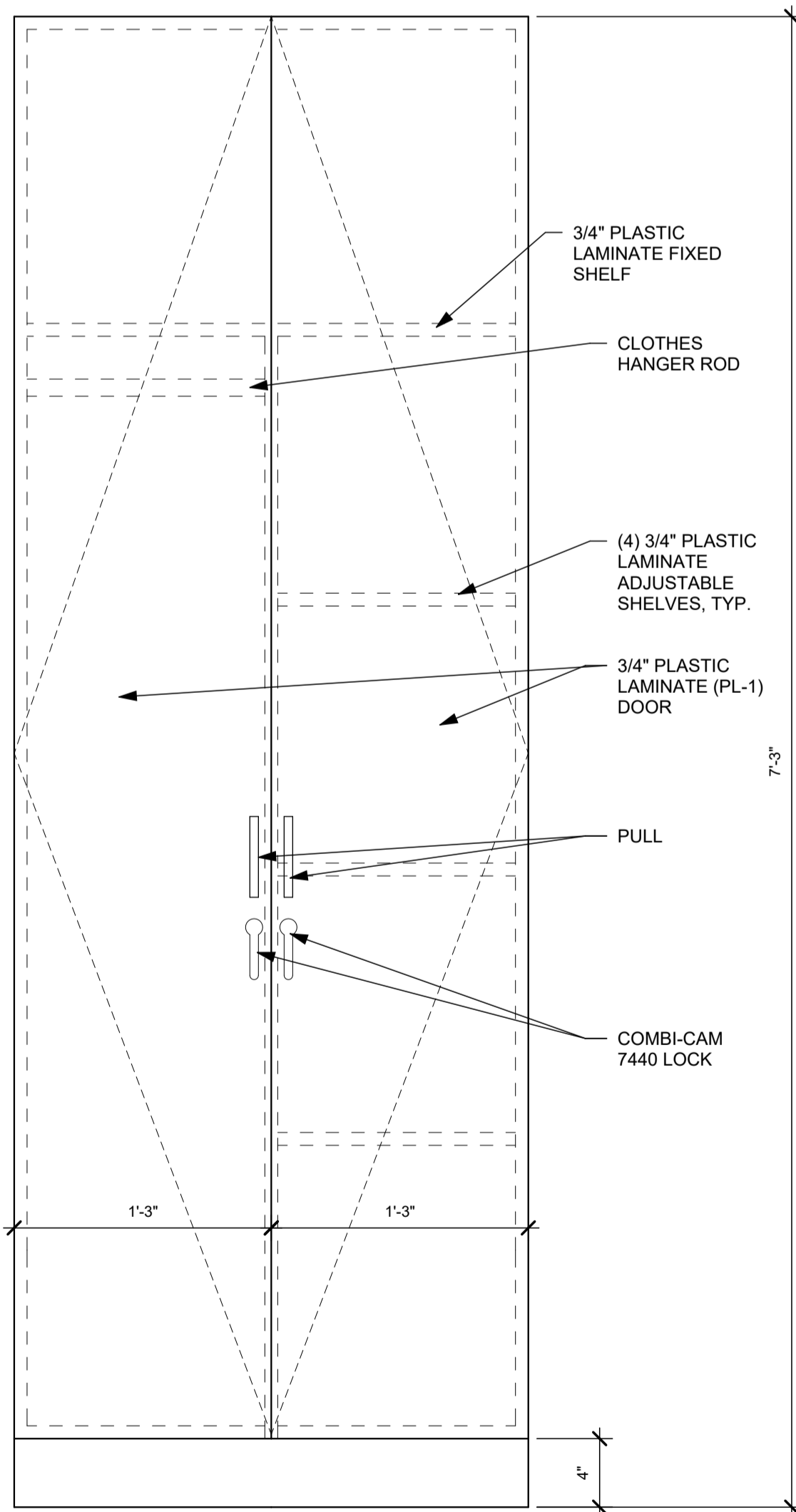
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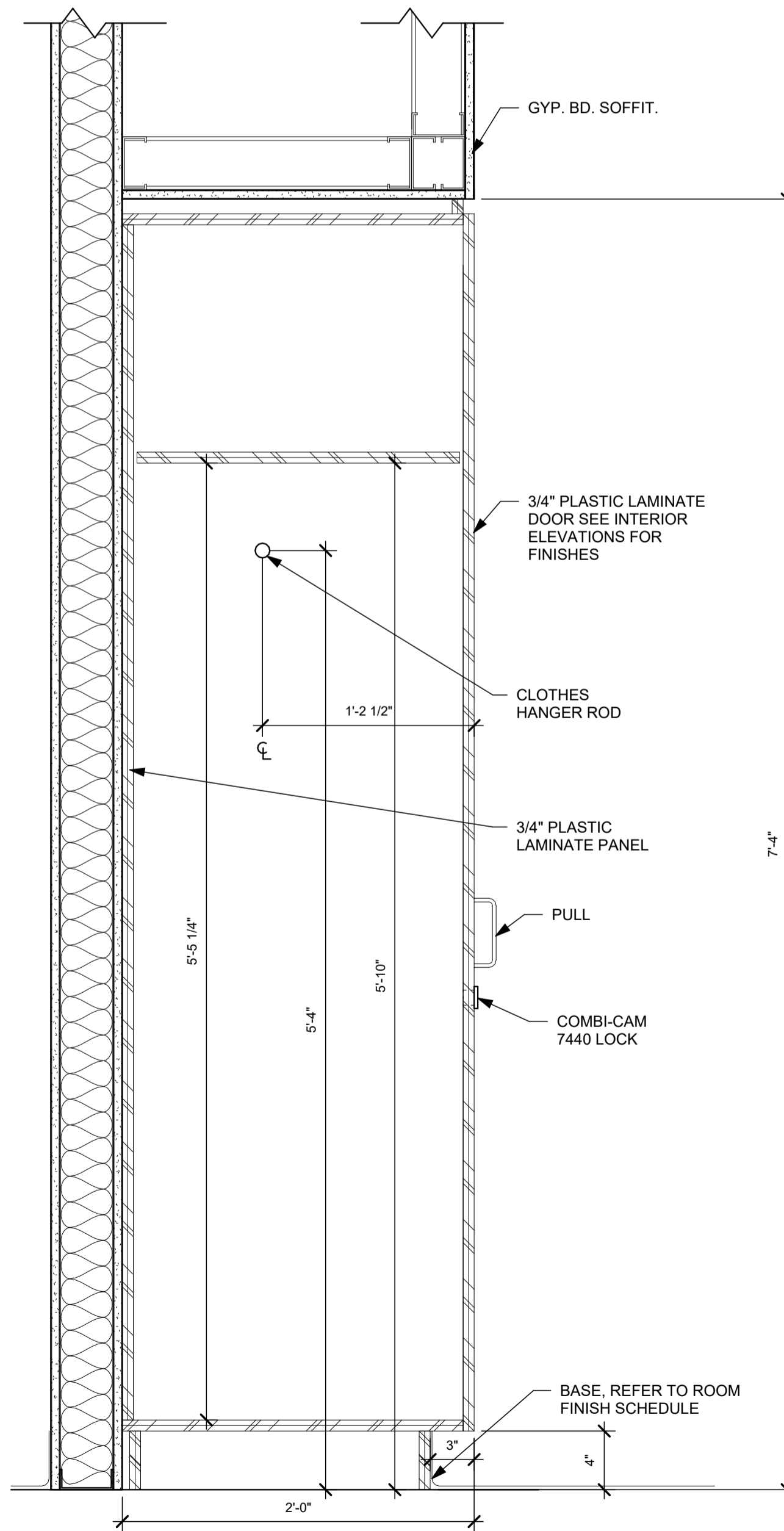
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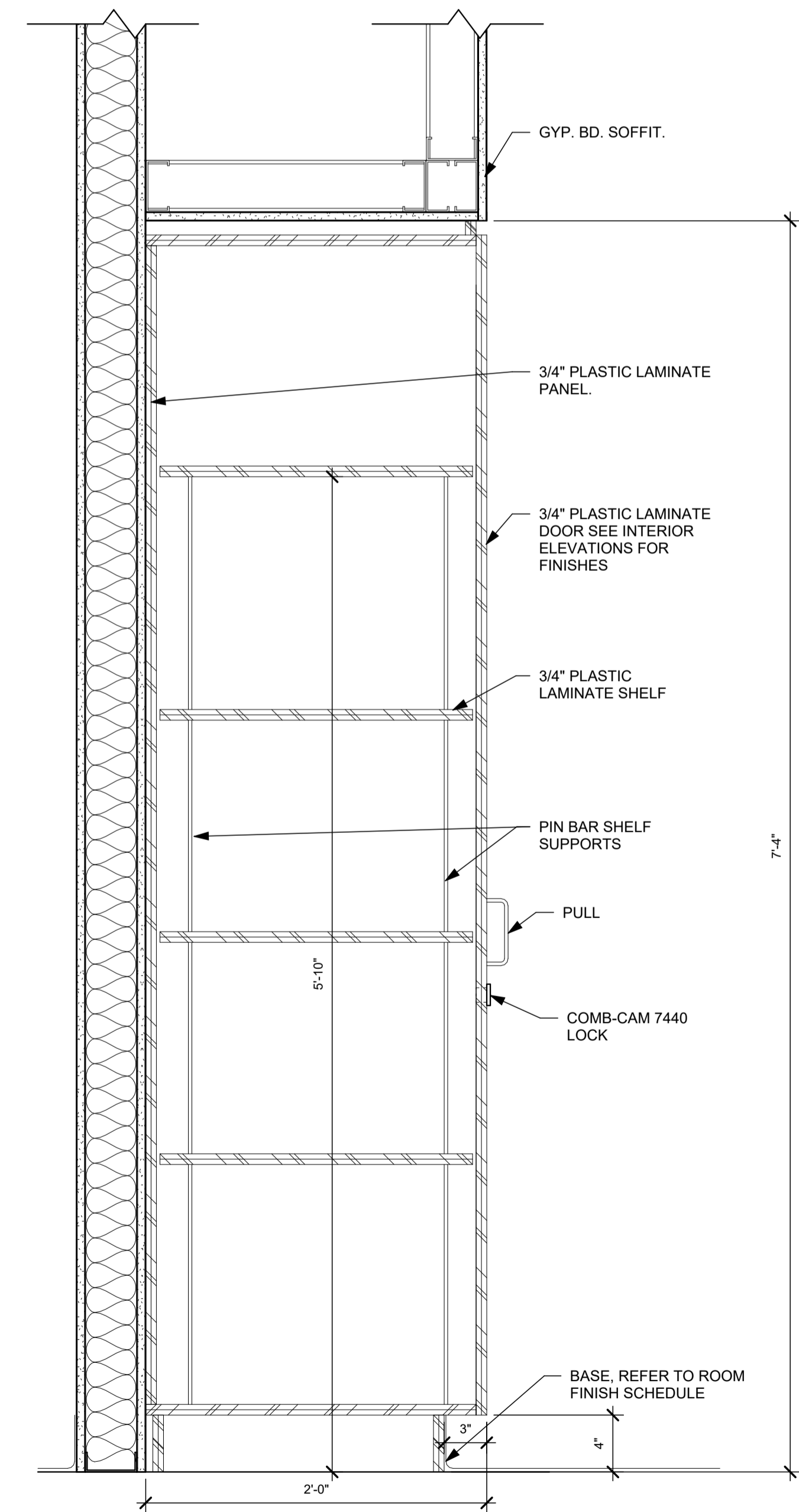
F



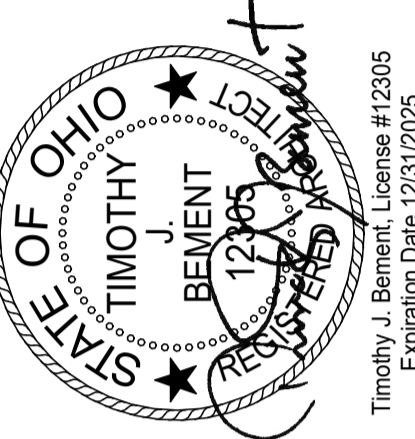
(F1) DORM LOCKER (ODL) ELEVATION (DORM SIDE)
1 1/2" = 1'-0"



(F3) DORM LOCKER (ODL) - HANGER
1 1/2" = 1'-0"



(F5) DORM LOCKER (ODL) ELEVATION - SHELVES
1 1/2" = 1'-0"



Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

ISSUE		
NO.	DATE	DESCRIPTION
1	12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
DRAWN	MSM
CHECKED	TJB
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TITLE CASEWORK DETAILS	

11/13/2025 5:00:17 PM

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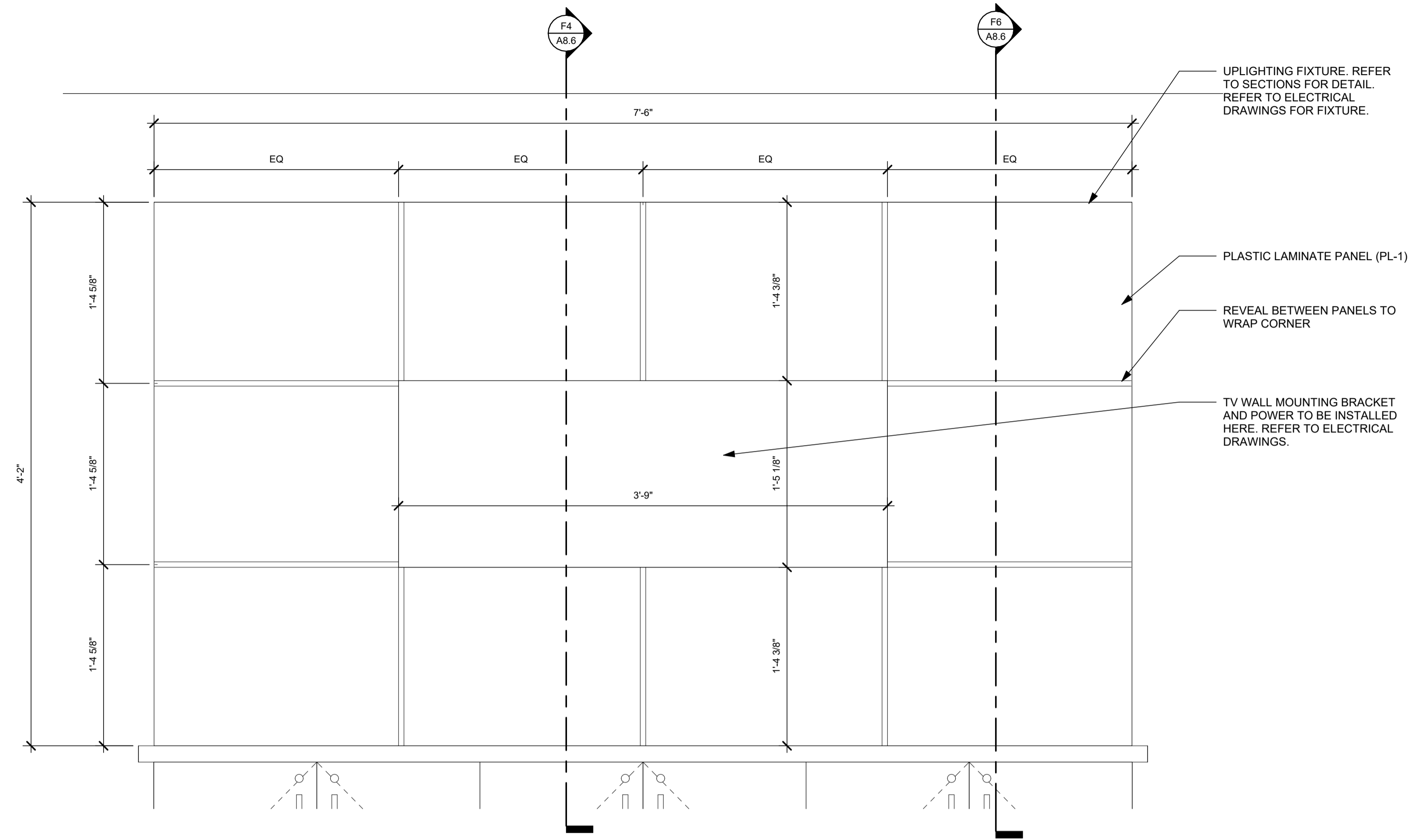
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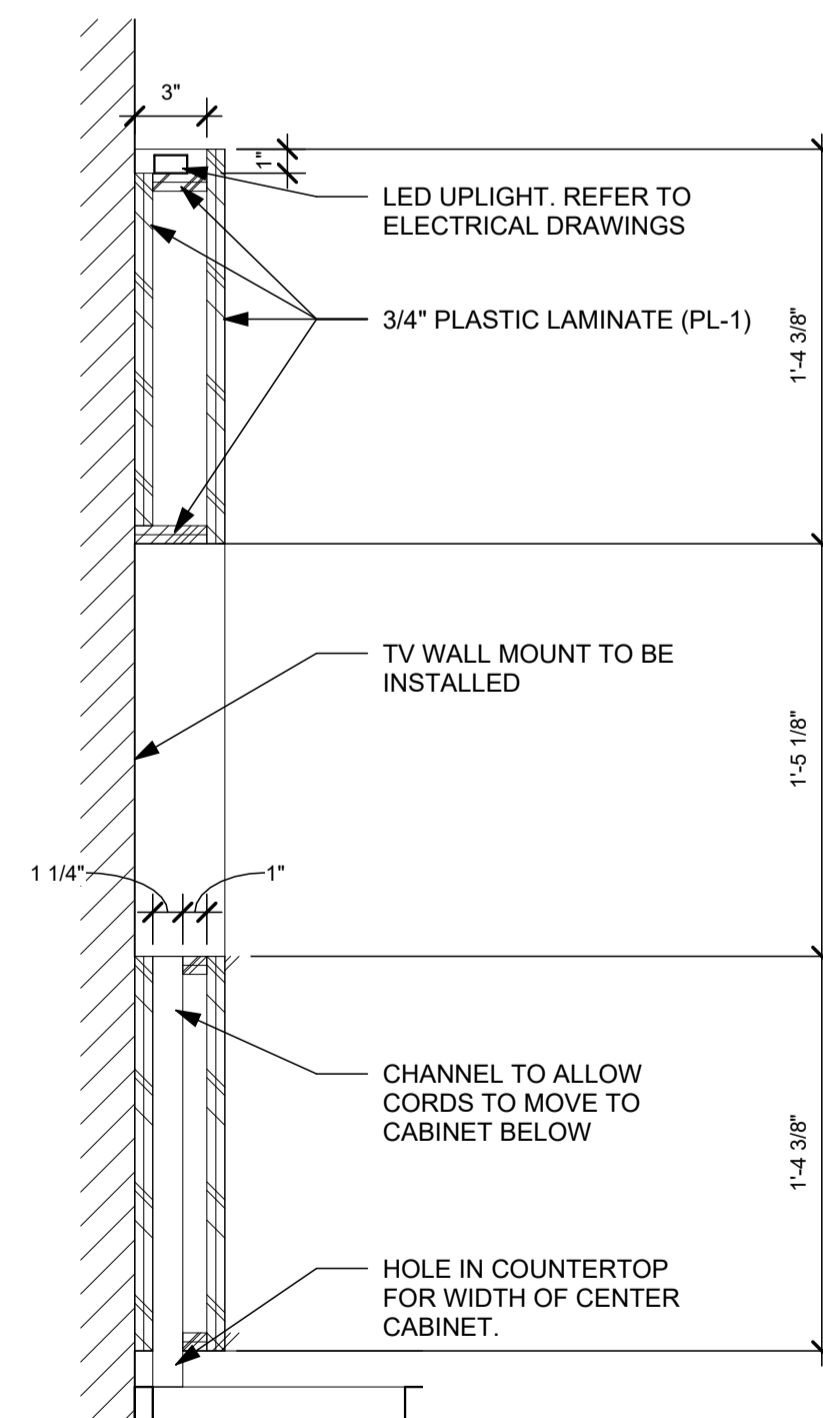
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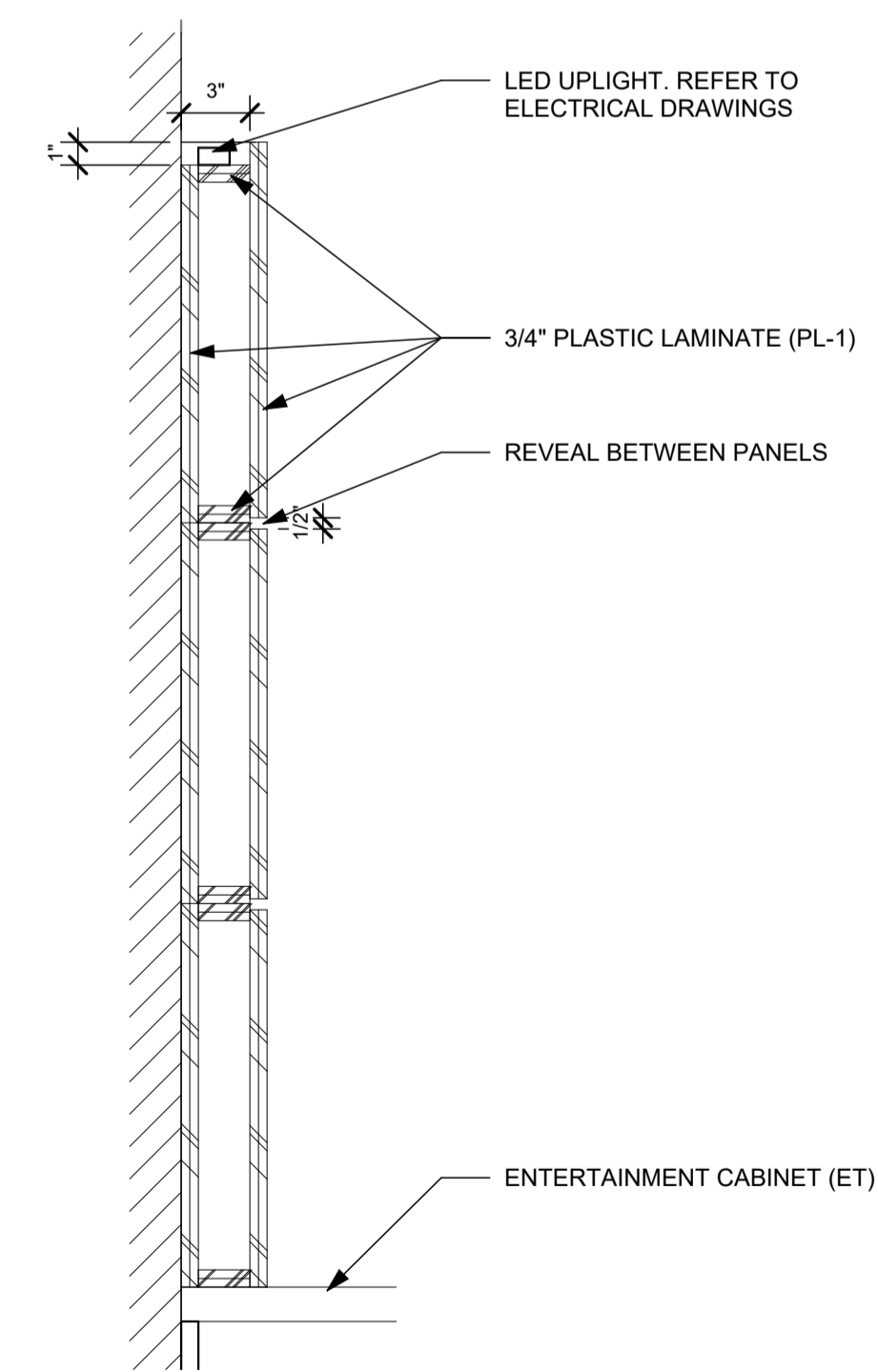
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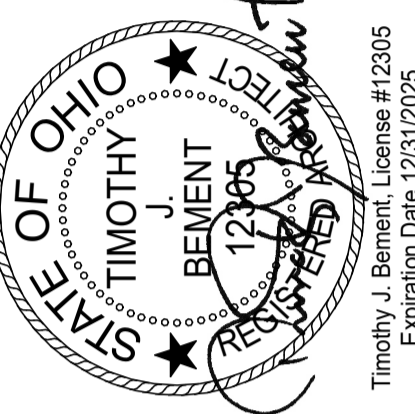
C4 TV DETAIL
1 1/2" = 1'-0"



F4 TV SECTION 1
1 1/2" = 1'-0"



F6 TV SECTION 2
1 1/2" = 1'-0"



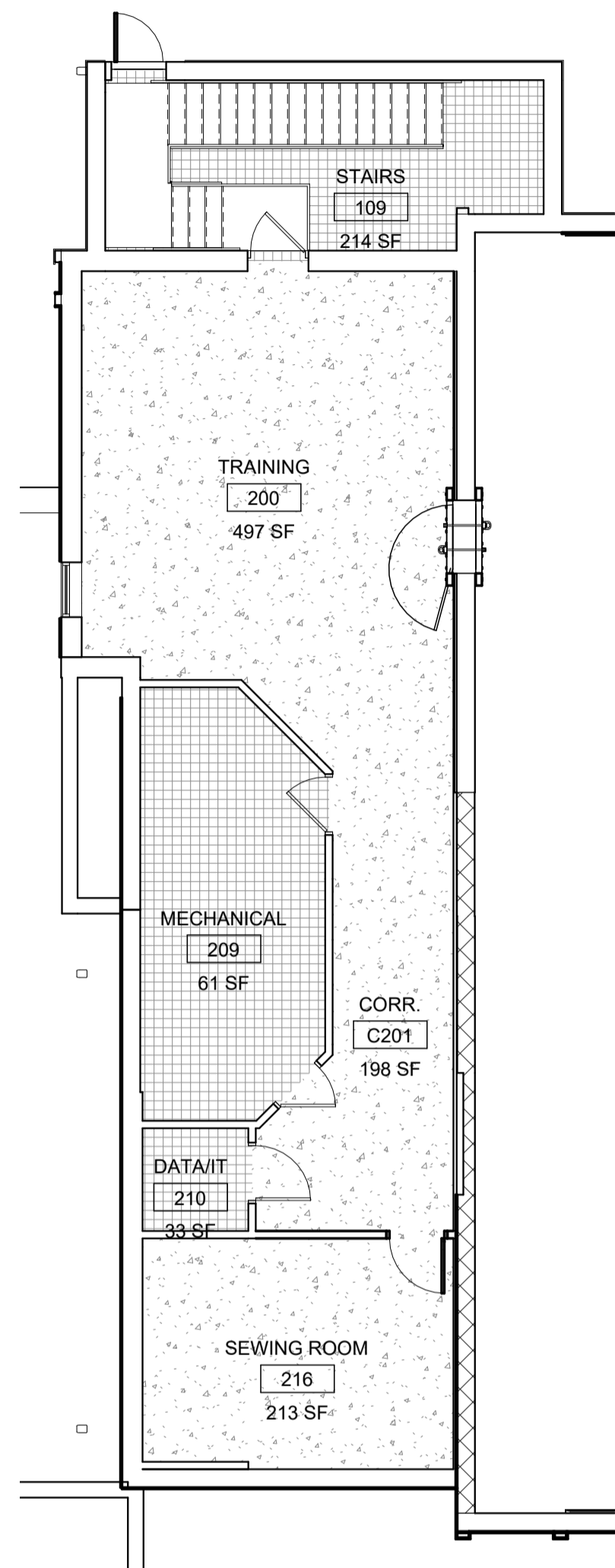
Renovation and Addition
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ISSUE		
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	12/18/2024	FOR CONSTRUCTION

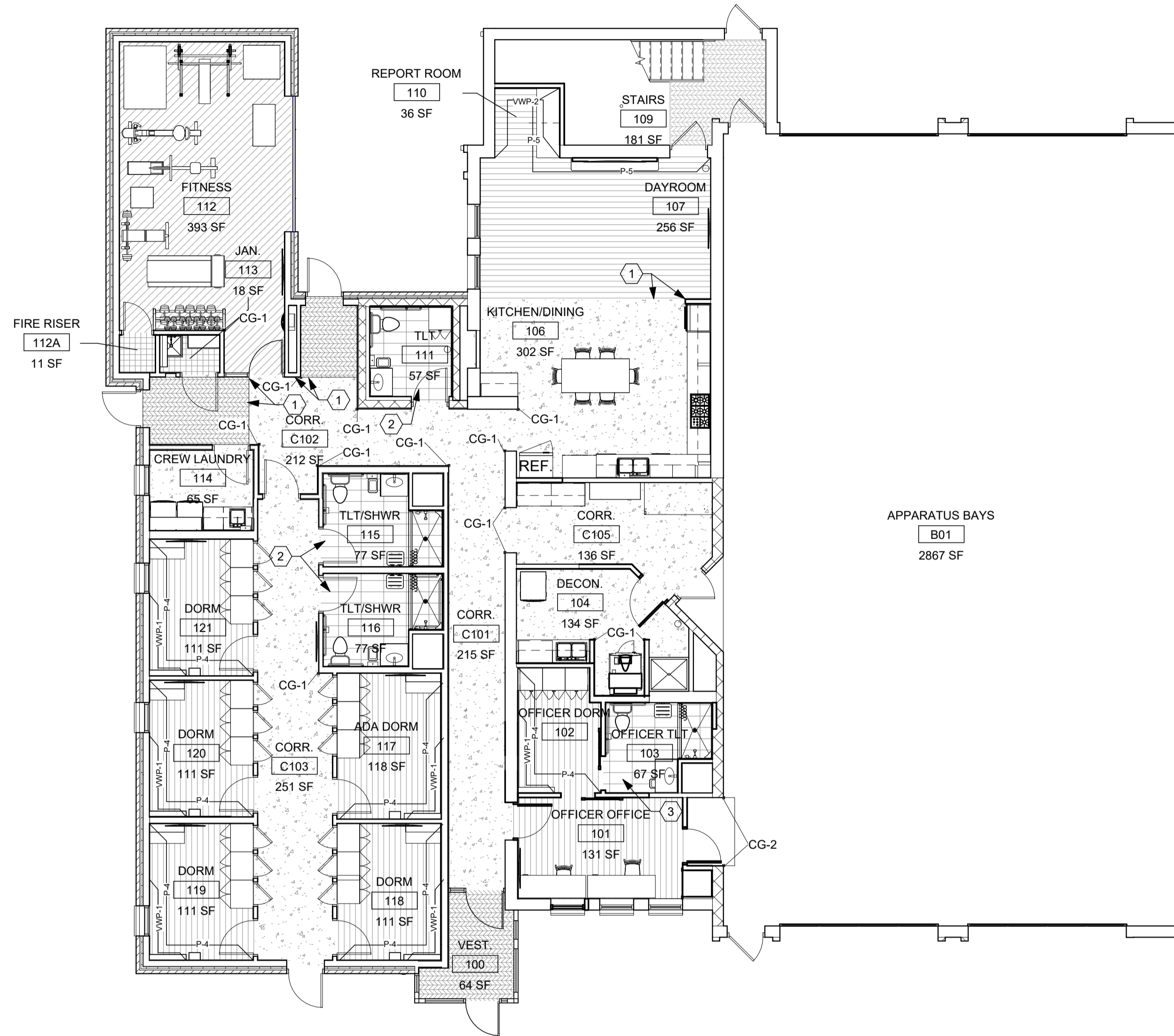
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SHEET NO.
A8.6



E1 SECOND FLOOR FINISHES PLAN
1/8" = 1'-0"



E3 FIRST FLOOR FINISHES PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

- 00 INDICATES CONSTRUCTION NOTE.
- 1 ALIGN.
- 2 REFER TO D1/A7.02, PARTIAL ENLARGED FLOOR PLAN B, FOR FLOOR TILE (PT-1) LAYOUT.
- 3 REFER TO C1/A7.01, PARTIAL ENLARGED FLOOR PLAN A, FOR FLOOR TILE (PT-1) LAYOUT.

GENERAL NOTES

- A. REFER TO FINISH SCHEDULE ON A0.2 FOR ADDITIONAL MATERIAL DETAILS AND LOCATIONS.
- B. TRANSITION STRIPS ARE REQUIRED WHERE DIFFERING FLOORING TYPES MEET.

LEGEND

	EXISTING
	CPT-2 CARPET TILE
	CPT-1 CARPET TILE
	CPT-1 CARPET TILE
	EPOXY
	PT-1 PORCELAIN TILE
	RT-1 RUBBER TILE
	VINYL WALL PROTECTION TYPE
	ACCENT PAINT COLOR LOCATION
	CORNER GUARD LOCATION

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STATE OF OHIO
TIMOTHY J. BEMENT
12305
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Timothy J. Bement, License #12305
Expiration Date 12/31/2025

Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

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TITLE	FINISH PLANS
SHEET NO.	A9.1

GENERAL STRUCTURAL NOTES

- GENERAL
1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, TEMPORARY BRACING, CUTS, OR TIEDowns WHICH MAY BE NECESSARY. SUCH MATERIAL IS TO REMAIN THE CONTRACTOR'S PROPERTY AT ALL TIMES THROUGHOUT THE PROJECT.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. MECHANICAL/EQUIPMENT LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BRIDGING PURPOSES ONLY. CONTRACTOR IS TO OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR.
4. DO NOT SCALE THE DRAWINGS WHERE DIMENSIONS ARE NOT SPECIFICALLY GIVEN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS. DO NOT SCALE DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO ADJUST OR NOR SUPERSEDE THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY WHERE CONFLICTS EXIST WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND FIELD CONDITIONS.
6. THROUGHOUT THESE PLANS, THE TERM 'PROVIDE' IS DEFINED AS 'SUPPLY AND INSTALL'.
7. SHOP DRAWINGS ARE TO BE SUBMITTED BY COMPLETE ERECTION PHASE OR SEQUENCE. LIMITS OF EACH INDIVIDUAL ERECTION PHASE OR SEQUENCE ARE TO BE CLEARLY INDICATED ON THE PLANS. INCOMPLETE OR PRECISE SHOP DRAWINGS WILL BE RETURNED PRIOR TO REVIEW. SUBMITTALS ARE TO HAVE REVISIONS CLEARLY MARKED OR IDENTIFIED. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER.
8. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION WILL GOVERN.
9. CODE INFORMATION
- GOVERNING CODE: 2024 OHIO BUILDING CODE
- BUILDING RISK CATEGORY: 204 OHIO BUILDING CODE CATEGORY IV

LOADING TYPE: UNIFORM (PSF) CONCENTRATED (LB)
ROOF LEVEL LOADS: -NEZEAINE 80 PSF 1000 LB
-ORDINARY ROOFS 20 PSF

ROOF RAIN LOADS: PRIMARY SECONDARY
-RAIN INTENSITY (I) 2.8 IN/HR 1.5 IN/HR
SNOW LOADS: -GROUND SNOW LOAD (Ps) 20 PSF
-FLAT ROOF SNOW LOAD (Ps) 24 PSF

WIND LOADS: -BASIC WIND SPEED (V) 115 MPH
-BASIC ALLOWABLE WIND SPEED (V) 92 MPH
-SITE EXPOSURE FACTOR (Kz) 1.0
-SNOW LOAD IMPORTANCE FACTOR (Is) 1.2
-THERMAL FACTOR (Ct) 1.0
-SNOW DRIFTING (Pd) AND EXTENTS INDICATED ON PLAN

SEISMIC LOADS: -SEISMIC IMPORTANCE FACTOR (Ih) 1.5
-MAPPED SPECTRAL RESPONSE ACCELERATION (Sa) 0.155
-SITE SPECTRAL RESPONSE ACCELERATION (Ss) 0.075
-SEISMIC SITE CLASS D
-DESIGN SPECTRAL RESPONSE ACCELERATION (Sd) 0.165
-DESIGN SPECTRAL RESPONSE ACCELERATION (Sds) 0.112

SPECIAL LOADS: -INTERIOR WALLS & PARTITIONS 5 PSF HORIZONTAL (ALLOWABLE)

GEOTECHNICAL: -GEOTECHNICAL ENGINEER KOONTZ BRYANT JOHNSON WILLIAMS
-REFERENCE REPORT ID NUMBER: 31873001-01-1024
-REFERENCE REPORT DATE: OCTOBER 1, 2024
-ALLOWABLE DESIGN BEARING PRESSURE: 1,500 PSF
-FOUNDATION TYPE: SHALLOW SPREAD FOOTINGS

DELEGATED DESIGN ITEMS: 1. PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY. THESE SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. DESIGNERS SHALL REVIEW THE DESIGN METHODOLOGY, LOADS, AND INSTALLATION DETAILS AS PART OF THE SHOP DRAWING REVIEW PROCESS AND MAY REQUEST A SEALED CALCULATION PACKAGE FOR REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE DESIGNED ITEMS. DELEGATED DESIGN ITEMS FOR THIS PROJECT INCLUDE THE FOLLOWING:
A. DIVISION 5
1. COLD-FORMED METAL FRAMING AND THEIR CONNECTIONS
2. CURTAIN WALLS AND STOREFRONT SYSTEMS
3. PREFABRICATED CANOPIES, AWNINGS, AND THEIR CONNECTIONS

REINFORCED CONCRETE: 1. SPECIFICATIONS IN GENERAL, COMPLY WITH AC-308-20, 'SPECIFICATIONS FOR STRUCTURAL CONCRETE'.
2. MATERIALS
A. STRUCTURAL CONCRETE
TABLE: MIX USAGE, (Ft) PSI, MAX w/cm, EXPOSURE, AIR CONTENT

REINFORCING BARS: B. ALL DEFORMED REINFORCING BARS: Fy = 60,000 PSI
C. CEMENT: PORTLAND CEMENT: ASTM C150; TYPE OR TYPE II ASTM C1157; TYPE LH OR GL OR ASTM C985; TYPE II, ALL CEMENT FOR CONCRETE EXPOSED TO VIEW IS TO BE FROM THE SAME MILL.
D. AGGREGATES: ASTM C136; USE NO. 10 FOR ALL MIXES UNLESS NOTED OTHERWISE.
E. ADMIXTURES: 1. WATER REDUCING, LOW AND MID RANGE: ASTM C494; TYPE A OR D.
2. HIGH-RANGE WATER REDUCING, SUPERPLASTICIZER: ASTM C494; TYPE I OR G.
F. AIR-ENTRAINING: ASTM C260
G. FLY ASH: ASTM C150; TYPE I OR F.
H. NON-CHLORIDE, NON-CORROSIVE ACCELERATOR: ASTM C494; TYPE C OR E.
I. VAPOR RETARDER SHALL CONFORM TO ASTM F1940 STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOLID OR GRANULAR FILL UNDER CONCRETE SLABS, CLASS A.
J. VAPOR RETARDER SHALL BE INSTALLED IN ACCORDANCE WITH ASTM E1884 STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH SOLID OR GRANULAR FILL UNDER CONCRETE SLABS. THE VAPOR RETARDER/BARRIER SHALL BE A MINIMUM OF 15 MILS THICK AND PLACED DIRECTLY ON THE GRANULAR FILL, BELOW THE CONCRETE FLOOR SLAB. LAP JOINTS A MINIMUM OF 6 INCHES AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE OR ADHESIVE.

FIELD MANUAL: 3. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, MIN. 15(20) IN THE FIELD OFFICE AT ALL TIMES.
4. SUBMITTALS
A. SUBMIT A MIX DESIGN FOR EACH MIXTURE USAGE REFERRED TO FOR THE PROJECT. CONCRETE PROPORTIONS ARE TO BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.
B. SUBMIT PLACING DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING.
C. SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.
D. SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTIONS.
5. CONTINGENCIES
A. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND UTILITY TRENCHES.
6. FOOTINGS, PIERS, WALLS,
A. DIMENSIONS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING.
B. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING.
C. LAP BARS AS INDICATED IN THE CONCRETE REINFORCING LAP SCHEDULE.
7. BRACES
A. LAP SPICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 36 DIAMETERS.
8. CONSTRUCTION JOINTS
A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
9. FINISHES
A. PER ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F10-30 AND LEVELNESS F10-20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
B. TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR TO REMAIN EXPOSED - TROWLED FINISH.
C. INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH.
D. EXTERIOR SLABS - BROOM FINISH.
10. CURING
A. CURING IS TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW CURING TO BE DELAYED OVERNIGHT.
B. INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE ARE TO BE MOST CURED AT LEAST THE USE OF A CURING COMPOUND.
C. ALL OTHER SLABS MAY BE EITHER MOST CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND.
11. FIELD QUALITY CONTROL
A. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. IF CONCRETE IS PLACED, OBTAIN CONCRETE AT DISCHARGE END.
B. FOR EACH CLASS OF CONCRETE, OTHER THAN LEAN CONCRETE, PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR FRACTION THEREOF, FOR ONE DAY PLACEMENT.
C. DETERMINE SLUMP FOR EACH STRENGTH TEST.
D. DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE.
E. MAINTAIN RECORDS OF ALL TESTS INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.

- MASONRY
1. MATERIALS
A. CONCRETE BLOCK: ASTM C90 HOLLOW AND SOLID, MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 2,600 PSI.
B. CONCRETE BLOCK: ASTM C90 HOLLOW AND SOLID, MINIMUM NET AREA COMPRESSIVE STRENGTH + 1,800 PSI
C. GROUT FOR BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE WITH Fc + 2,500 PSI MIN.
D. DESIGN COMPRESSIVE STRENGTH OF MASONRY SYSTEM Fm = 2,200 PSI
E. ALL DEFORMED REINFORCING BARS: Fy = 60,000 PSI. LAP BARS AS INDICATED IN THE CONCRETE MASONRY REINFORCING LAP SCHEDULE.
F. HORIZONTAL JOINT REINFORCING: STANDARD LADDER TYPE, 9 GA. HOT-DIPPED GALVANIZED FINISH. PROVIDE AT 8" O.C. BELOW GRADE, AND 10" O.C. ABOVE GRADE, UNLESS NOTED OTHERWISE.
2. CONTROL JOINTS
A. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT OR 8 FEET ON CENTER, WHICHEVER IS SMALLER. IN ADDITION, PROVIDE CONTROL JOINTS AT THE ENDS OF UNITS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLABS.
3. MISCELLANEOUS
A. PROVIDE SOLID OR GROUT-FILLED CMU FOR ALL BELOW-GRADE FOUNDATION WALLS.
B. FILL CORE SOLID AROUND CAST-IN ANCHOR RODS.
C. PROVIDE SOLID CMU OR GROUT-FILLED CMU AT ALL EPOXY ANCHOR AND WEDGE ANCHOR LOCATIONS. EXTEND SOLID AREA AT LEAST 8" IN ALL DIRECTIONS FROM CENTER OF ANCHOR.
D. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
E. HOLLOW MASONRY UNITS TO BE LAD WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SIZES. WEBS ARE TO ALSO BE BEDDED IN FULL COURSES OF PERKS, PLASTERS, THE STARTING COURSE AND FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
F. PROVIDE APPROPRIATE MASONRY ANCHORS AT 10" O.C. MAX. TO THE MASONRY TO ABUTTING STEEL COLUMN, STEEL BEAM WEBS, AND ALL ABUTTING CONCRETE SURFACES.
G. WHERE HOLLOW MASONRY UNITS ARE USED ABOVE HOLLOW MASONRY UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF SOLID MASONRY AT LEAST 8" HIGH BELOW THE TRANSITION.
H. LAP SPICE REINFORCING BARS AS SCHEDULED.
I. ALL GROUTING OF MASONRY WALLS IS TO BE BY THE LOW-LIFT GROUTING METHOD (MAXIMUM LIFT HEIGHT 5'-0"), UNLESS CLEAR OUTS AND INSPECTIONS ARE PROVIDED.

- ANCHORAGE TO CONCRETE
1. DEWALT POWER STUD - 420 OR -502 WEDGE EXPANSION ANCHOR
2. HILTI KWIK-BOLT 3 EXPANSION ANCHOR
3. HILTI KWIK-BOLT 12Z EXPANSION ANCHOR
4. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR
5. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
6. DEWALT LOK-BOLT AS SLEEVE ANCHOR
7. HILTI HLT-HY 200A ADHESIVE FOR THREADED ROD AND REINFORCING BAR
8. HILTI HT-RE 150 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
9. SIMPSON SET 30 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
10. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS
11. DEWALT SCREW-BOLT 1
12. HILTI KWIK-HEX-Z SCREW ANCHOR
13. SIMPSON TITEN HD SCREW ANCHOR
14. DEWALT ACQ-ADHESIVE FOR REINFORCING BAR
15. DEWALT PURE-10 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
16. HILTI HT-HY 200A ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HLT SPECIFIC ROD AND INSERT SYSTEMS.
17. HILTI HT-RE 150 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
18. SIMPSON SET 30 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
19. DEWALT LOK-BOLT AS SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
20. HILTI HLT-SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
21. SIMPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
22. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS
23. HILTI KWIK-HEX-Z SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY AND BRICK MASONRY
24. DEWALT SCREW-BOLT 1 SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY AND BRICK MASONRY
25. SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY AND BRICK MASONRY
26. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS
27. DEWALT ACQ-ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY CONSTRUCTION.
28. HILTI HT-HY 200A ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HLT SPECIFIC ROD AND INSERT SYSTEMS IN GROUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY.
29. SIMPSON SET 30 ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED, SOLID, AND HOLLOW CONCRETE MASONRY.

- STRUCTURAL STEEL
1. MATERIALS
A. STRUCTURAL STEEL, WIDE FLANGE SHAPES: ASTM A992, Fy = 50 KSI
B. STRUCTURAL STEEL CHANNELS, ANGLES, PLATES, ETC.: ASTM A36, Fy = 36 KSI
C. HIGH STRENGTH BOLTS: ASTM A325 OR A490
D. ANCHOR RODS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE
E. ELECTRODES: SERIES 70, E7018, Fy = 70 KSI
F. RECTANGULAR HSS: ASTM A500, GRADE C, Fy = 50 KSI
G. STRUCTURAL PIPES: ASTM A53, GRADE B, Fy = 35 KSI
H. SHEAR STUDS: ASTM A108, Fy = 60 KSI
I. DEFORMED BAR ANCHORS: ASTM A1064, Fy = 70 KSI
2. SPECIFICATIONS
A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D11.1 UNLESS SPECIFICALLY SHOWN OTHERWISE. DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:
1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. AISC CODE OF STANDARD PRACTICE.
3. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
4. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
3. SUBMITTALS
A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL, WHICH INCLUDE ERECTION PLANS, CONNECTION DETAILS, AND SHOP DETAILS INCLUDING CONNECTIONS, COVERS, CAMBERS, CONNECTIONS, HOLES, THREADED FASTENER TYPES AND SIZES, AND SIZES AND LENGTHS OF WELDS.
B. INDICATE MATERIAL SPECIFICATIONS, STRENGTHS, AND FINISHES.
4. CONNECTIONS
A. WELD CONNECTIONS ARE TO BE BOLTED, EXCEPT AS INDICATED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED.
B. CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR TO DEVELOP EITHER 10% OF THE FULL LONGITUDINAL LOAD CAPACITY OF THE MEMBER (5% EACH END), OR THE FORCES SHOWN ON THE PLANS. MINIMUM CONNECTION CAPACITY TO BE 15 KIPS. SHOP INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS.
5. COATINGS
A. DON'T PAINT STEEL OR ANCHOR RODS WHICH WILL BE ENCASED IN CONCRETE OR MASONRY.
B. PAINT ALL EXTERIOR EXPOSED STEEL, INCLUDING INTERIOR LINTELS) WITH TWO COATS OF RED-OXIDE PRIMER.
C. PAINT ALL INTERIOR EXPOSED STEEL, INCLUDING INTERIOR LINTELS) WITH TWO COATS OF RED-OXIDE PRIMER.
D. PROVIDE A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT FOR ALL BELOW-GRADE STEEL (INCLUDING ANCHOR RODS, NUTS, WASHERS, BASE PLATES, AND THE BELOW-GRADE PORTION OF COLUMNS) WHICH IS NOT FULLY ENCASED IN CONCRETE.
E. INTERIOR UNEXPOSED STEEL NEED NOT BE PRIME PAINTED.
6. MISCELLANEOUS
A. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
B. STEEL SUPPORTING AND CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON ARCHITECTURAL, MECHANICAL AND/OR STRUCTURAL DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO RECONCILE EXIST SIZE AND LOCATION WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THIS WORK.
C. GROUT UNDER BEARING PLATES TO BE NON-MATERIAL, NON-SHRINKING TYPE.
D. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE, 4" OF SOLID MASONRY, OR A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT.
E. PROVIDE 1/4" THICK SETTING PLATES FOR ALL BEAMS AND BEAM LINTELS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A THICKER SETTING PLATE.
F. PROVIDE HEAVY PLATE WASHERS AT ALL ANCHOR RODS.
G. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.
H. PROVIDE BOLT HOLES FOR WOOD NAILS BOLTED TO STEEL.
I. STEEL IN CONTACT WITH PRESSURE-TREATED LUMBER IS TO BE PROTECTED FROM CORROSION FROM PRESERVATIVE CHEMICALS WITH A 2 MIL (MIN.) VAPOR BARRIER. BOLTS AND SCREWS THROUGH PRESERVE-TREATED LUMBER ARE TO BE HOT-DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM GIBS COATING OR STAINLESS STEEL WITH CHEMICAL PROTECTION CONFORMING TO AISI 302B OR AISI 316.
J. SEE ARCHITECTURAL SECTIONS AND DETAILS FOR ALL MISCELLANEOUS STRUCTURAL STEEL NOT OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.
7. FIELD QUALITY CONTROL
A. INSPECTION AGENCY IS TO PERFORM INSPECTION OF BOLTED CONNECTIONS PER THE REQUIREMENTS OF AISC SPECIFICATION FOR STRUCTURAL JOINTS.

- COLD-FORMED METAL FRAMING
1. MATERIALS
A. COLD-FORMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNATED BY 'DEPTH', 'SHAPE', 'WIDTH', AND 'THICKNESS' AS FOLLOWS:
1. DEPTH: 302 (3'-0"), 600 (6'-0"), 800 (8'-0")
2. SHAPE: S (SHAPES) / TRACK (U CHANNELS)
3. WIDTH: 12 (1'-0"), 18 (1'-6"), 24 (2'-0"), ETC.
4. THICKNESS: 42 (18 GA.), 54 (16 GA.), 60 (14 GA.), 67 (12 GA.)
EXAMPLE: 600S12-42 = 6'-0" SHAPES, 12" FLANGE, 42 GA.
B. ALL 1/2 GA. AND LIGHTER STUDS TO BE 33 KSI MATERIAL, ALL 1/4 GA. AND HEAVIER STUDS TO BE 50 KSI MATERIAL.
C. ALL TRACKS AND ACCESSORIES: Fy = 33 KSI MINIMUM.
2. SPECIFICATIONS
A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY LATEST REVISIONS OF:
1. AISC SPECIFICATION OF THE DESIGN OF COLD-FORMED METAL STRUCTURAL MEMBERS
2. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.
3. SUBMITTALS
A. SUBMIT MANUFACTURER'S STANDARD PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED METAL FRAMING AND ACCESSORY REQUIRED.
B. SUBMIT FULLY DETAILED ERECTION PLANS AND CONNECTION DETAILS INDICATING ALL COMPONENT AND MEMBER LOCATIONS, ORIENTATION, AND LAYOUT. PLANS TO INCLUDE MEMBER SIZES, TYPES, GAGE DESIGNATIONS, QUANTITY, AND SPACING. ALSO INCLUDE DETAILS OF CONNECTIONS NOTED SCREW TYPES, QUANTITIES, LOCATIONS, WELD SIZES, LENGTHS, AND LOCATIONS, AND ADDITIONAL BRACING, OR ACCESSORIES REQUIRED FOR A PROPER AND COMPLETE INSTALLATION.
4. CONNECTIONS
A. FIELD CONNECTIONS MAY BE EITHER WELDED OR SCREWED, EXCEPT AS SPECIFICALLY DETAILED OTHERWISE.
B. WELD SIZE TO BE 1/8" WITH AWS TYP. E6011 OR 7014 ROD.
C. EXCEPT AS NOTED OTHERWISE, MECHANICAL FASTENERS TO BE SELF-TAPPING #10-16 SCREWS.
5. FINISH
A. ALL MATERIAL TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A425 G-80.
B. TOUCH-UP FIELD WELDS WITH ZINC RICH PAINT.
6. MISCELLANEOUS
A. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW.
B. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREW AT EACH SIDE OF TRACK.
C. PROVIDE HORIZONTAL BRIDGING AT 7'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED OTHERWISE. BRIDGING IS NOT REQUIRED FOR PORTIONS OF EXTERIOR WALLS WHERE BOTH SIDES ARE FACHED WITH BRACING.
D. JOISTS TO BE LOCATED DIRECTLY OVER BEARING WALL STUDS UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE TOP TRACK.
E. BEARING WALL STUDS ARE TO BE LOCATED DIRECTLY BELOW JOIST OR ROOF TRUSS BEARINGS UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE TOP TRACK.
F. END BRACING OR CONTINUOUS JOISTS IS TO BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
G. WEB BRACKS OUT FOR BEAMS, JOISTS, AND RAFTERS ARE TO BE LOCATED A MINIMUM OF 1' AWAY FROM BEARING AND CONCENTRATED LOAD LOCATIONS. IF A PUNCH OUT FALLS WITHIN 1' OF THESE LOCATIONS, PROVIDE REINFORCEMENT FOR THE MEMBER AS REQUIRED. ALTERNATELY, LAP WELDED SECTIONS MAY BE PROVIDED FOR BEAMS, JOISTS AND RAFTERS.
H. EACH MEMBER OF MULTIPLE MEMBER COLUMNS ARE TO BE SCREWED TOGETHER USING FULL-HEIGHT TRACKS AND #10 SCREWS AT 12" O.C. ALTERNATELY, MULTIPLE MEMBER COLUMNS MAY BE WELDED TOGETHER WITH A 1" WELD AT 18" ON CENTER, EACH SIDE, EACH FACE, FOR THE FULL LENGTH OF THE COLUMN.
7. POST-INSTALLED ANCHOR SYSTEMS
1. GENERAL
A. LISTED ANCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABLE PRODUCTS. EACH ANCHOR HAS DEFINED CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FACTORS AND WILL VARY ACROSS MANUFACTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENTS ARE DETAILED FOR THEIR SPECIFIC PURPOSE AND CAPACITY. SUBSTITUTION OF ANCHORS FROM THOSE LISTED IS ONLY ALLOWED AFTER ENGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR.
B. EXTERIOR ANCHORAGES MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE DOCUMENTS.
C. ALL TEST-INSTALLED ANCHORS TO BE MINIMUM FOLLOWS ALL HOLD CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO SILICA DUST.
D. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS THROUGH MANUFACTURER TRAINING PROGRAMS.
E. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND WHERE SUPPORTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ANCHORS INSTALLATION PROGRAMS.
F. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL NOT BE LESS THAN 28 DAYS.
G. ALL ANCHORS CONTACT WITH REINFORCING TREATED LUMBER ARE TO BE HOT-DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM GIBS COATING OR STAINLESS STEEL WITH CHEMICAL PROTECTION CONFORMING TO AISI 302B OR AISI 316.
H. FASTENERS AND CONNECTIONS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL, OR HOT-DIPPED GALVANIZED, DO NOT MIX MATERIALS.
I. MINIMUM EMBEDMENT FOR MECHANICAL EXPANSION ANCHORAGE SYSTEMS IS TO BE 8 BOLT DIAMETERS, MINIMUM EMBEDMENT FOR SCREW ANCHOR AND ADHESIVE ANCHORAGE SYSTEMS IS TO BE 8 BOLT DIAMETERS.

- ANCHORAGE TO CONCRETE
1. DEWALT POWER STUD - 420 OR -502 WEDGE EXPANSION ANCHOR
2. HILTI KWIK-BOLT 3 EXPANSION ANCHOR
3. HILTI KWIK-BOLT 12Z EXPANSION ANCHOR
4. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR
5. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
6. DEWALT LOK-BOLT AS SLEEVE ANCHOR
7. HILTI HLT-HY 200A ADHESIVE FOR THREADED ROD AND REINFORCING BAR
8. HILTI HT-RE 150 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
9. SIMPSON SET 30 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
10. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS
11. DEWALT SCREW-BOLT 1
12. HILTI KWIK-HEX-Z SCREW ANCHOR
13. SIMPSON TITEN HD SCREW ANCHOR
14. DEWALT ACQ-ADHESIVE FOR REINFORCING BAR
15. DEWALT PURE-10 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
16. HILTI HT-HY 200A ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HLT SPECIFIC ROD AND INSERT SYSTEMS.
17. HILTI HT-RE 150 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
18. SIMPSON SET 30 ADHESIVE FOR THREADED ROD AND REINFORCING BAR
19. DEWALT LOK-BOLT AS SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
20. HILTI HLT-SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
21. SIMPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
22. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS
23. HILTI KWIK-HEX-Z SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY AND BRICK MASONRY
24. DEWALT SCREW-BOLT 1 SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY AND BRICK MASONRY
25. SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY AND BRICK MASONRY
26. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS
27. DEWALT ACQ-ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY CONSTRUCTION.
28. HILTI HT-HY 200A ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HLT SPECIFIC ROD AND INSERT SYSTEMS IN GROUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY.
29. SIMPSON SET 30 ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED, SOLID, AND HOLLOW CONCRETE MASONRY.

- STRUCTURAL STEEL
1. MATERIALS
A. STRUCTURAL STEEL, WIDE FLANGE SHAPES: ASTM A992, Fy = 50 KSI
B. STRUCTURAL STEEL CHANNELS, ANGLES, PLATES, ETC.: ASTM A36, Fy = 36 KSI
C. HIGH STRENGTH BOLTS: ASTM A325 OR A490
D. ANCHOR RODS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE
E. ELECTRODES: SERIES 70, E7018, Fy = 70 KSI
F. RECTANGULAR HSS: ASTM A500, GRADE C, Fy = 50 KSI
G. STRUCTURAL PIPES: ASTM A53, GRADE B, Fy = 35 KSI
H. SHEAR STUDS: ASTM A108, Fy = 60 KSI
I. DEFORMED BAR ANCHORS: ASTM A1064, Fy = 70 KSI
2. SPECIFICATIONS
A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D11.1 UNLESS SPECIFICALLY SHOWN OTHERWISE. DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:
1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. AISC CODE OF STANDARD PRACTICE.
3. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
4. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
3. SUBMITTALS
A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL, WHICH INCLUDE ERECTION PLANS, CONNECTION DETAILS, AND SHOP DETAILS INCLUDING CONNECTIONS, COVERS, CAMBERS, CONNECTIONS, HOLES, THREADED FASTENER TYPES AND SIZES, AND SIZES AND LENGTHS OF WELDS.
B. INDICATE MATERIAL SPECIFICATIONS, STRENGTHS, AND FINISHES.
4. CONNECTIONS
A. WELD CONNECTIONS ARE TO BE BOLTED, EXCEPT AS INDICATED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED.
B. CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR TO DEVELOP EITHER 10% OF THE FULL LONGITUDINAL LOAD CAPACITY OF THE MEMBER (5% EACH END), OR THE FORCES SHOWN ON THE PLANS. MINIMUM CONNECTION CAPACITY TO BE 15 KIPS. SHOP INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS.
5. COATINGS
A. DON'T PAINT STEEL OR ANCHOR RODS WHICH WILL BE ENCASED IN CONCRETE OR MASONRY.
B. PAINT ALL EXTERIOR EXPOSED STEEL, INCLUDING INTERIOR LINTELS) WITH TWO COATS OF RED-OXIDE PRIMER.
C. PAINT ALL INTERIOR EXPOSED STEEL, INCLUDING INTERIOR LINTELS) WITH TWO COATS OF RED-OXIDE PRIMER.
D. PROVIDE A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT FOR ALL BELOW-GRADE STEEL (INCLUDING ANCHOR RODS, NUTS, WASHERS, BASE PLATES, AND THE BELOW-GRADE PORTION OF COLUMNS) WHICH IS NOT FULLY ENCASED IN CONCRETE.
E. INTERIOR UNEXPOSED STEEL NEED NOT BE PRIME PAINTED.
6. MISCELLANEOUS
A. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
B. STEEL SUPPORTING AND CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON ARCHITECTURAL, MECHANICAL AND/OR STRUCTURAL DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO RECONCILE EXIST SIZE AND LOCATION WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THIS WORK.
C. GROUT UNDER BEARING PLATES TO BE NON-MATERIAL, NON-SHRINKING TYPE.
D. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE, 4" OF SOLID MASONRY, OR A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT.
E. PROVIDE 1/4" THICK SETTING PLATES FOR ALL BEAMS AND BEAM LINTELS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A THICKER SETTING PLATE.
F. PROVIDE HEAVY PLATE WASHERS AT ALL ANCHOR RODS.
G. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.
H. PROVIDE BOLT HOLES FOR WOOD NAILS BOLTED TO STEEL.
I. STEEL IN CONTACT WITH PRESSURE-TREATED LUMBER IS TO BE PROTECTED FROM CORROSION FROM PRESERVATIVE CHEMICALS WITH A 2 MIL (MIN.) VAPOR BARRIER. BOLTS AND SCREWS THROUGH PRESERVE-TREATED LUMBER ARE TO BE HOT-DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM GIBS COATING OR STAINLESS STEEL WITH CHEMICAL PROTECTION CONFORMING TO AISI 302B OR AISI 316.
J. SEE ARCHITECTURAL SECTIONS AND DETAILS FOR ALL MISCELLANEOUS STRUCTURAL STEEL NOT OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.
7. FIELD QUALITY CONTROL
A. INSPECTION AGENCY IS TO PERFORM INSPECTION OF BOLTED CONNECTIONS PER THE REQUIREMENTS OF AISC SPECIFICATION FOR STRUCTURAL JOINTS.

- COLD-FORMED METAL FRAMING
1. MATERIALS
A. COLD-FORMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNATED BY 'DEPTH', 'SHAPE', 'WIDTH', AND 'THICKNESS' AS FOLLOWS:
1. DEPTH: 302 (3'-0"), 600 (6'-0"), 800 (8'-0")
2. SHAPE: S (SHAPES) / TRACK (U CHANNELS)
3. WIDTH: 12 (1'-0"), 18 (1'-6"), 24 (2'-0"), ETC.
4. THICKNESS: 42 (18 GA.), 54 (16 GA.), 60 (14 GA.), 67 (12 GA.)
EXAMPLE: 600S12-42 = 6'-0" SHAPES, 12" FLANGE, 42 GA.
B. ALL 1/2 GA. AND LIGHTER STUDS TO BE 33 KSI MATERIAL, ALL 1/4 GA. AND HEAVIER STUDS TO BE 50 KSI MATERIAL.
C. ALL TRACKS AND ACCESSORIES: Fy = 33 KSI MINIMUM.
2. SPECIFICATIONS
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1. AISC SPECIFICATION OF THE DESIGN OF COLD-FORMED METAL STRUCTURAL MEMBERS
2. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.
3. SUBMITTALS
A. SUBMIT MANUFACTURER'S STANDARD PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED METAL FRAMING AND ACCESSORY REQUIRED.
B. SUBMIT FULLY DETAILED ERECTION PLANS AND CONNECTION DETAILS INDICATING ALL COMPONENT AND MEMBER LOCATIONS, ORIENTATION, AND LAYOUT. PLANS TO INCLUDE MEMBER SIZES, TYPES, GAGE DESIGNATIONS, QUANTITY, AND SPACING. ALSO INCLUDE DETAILS OF CONNECTIONS NOTED SCREW TYPES, QUANTITIES, LOCATIONS, WELD SIZES, LENGTHS, AND LOCATIONS, AND ADDITIONAL BRACING, OR ACCESSORIES REQUIRED FOR A PROPER AND COMPLETE INSTALLATION.
4. CONNECTIONS
A. FIELD CONNECTIONS MAY BE EITHER WELDED OR SCREWED, EXCEPT AS SPECIFICALLY DETAILED OTHERWISE.
B. WELD SIZE TO BE 1/8" WITH AWS TYP. E6011 OR 7014 ROD.
C. EXCEPT AS NOTED OTHERWISE, MECHANICAL FASTENERS TO BE SELF-TAPPING #10-16 SCREWS.
5. FINISH
A. ALL MATERIAL TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A425 G-80.
B. TOUCH-UP FIELD WELDS WITH ZINC RICH PAINT.
6. MISCELLANEOUS
A. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW.
B. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREW AT EACH SIDE OF TRACK.
C. PROVIDE HORIZONTAL BRIDGING AT 7'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED OTHERWISE. BRIDGING IS NOT REQUIRED FOR PORTIONS OF EXTERIOR WALLS WHERE BOTH SIDES ARE FACHED WITH BRACING.
D. JOISTS TO BE LOCATED DIRECTLY OVER BEARING WALL STUDS UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE TOP TRACK.
E. BEARING WALL STUDS ARE TO BE LOCATED DIRECTLY BELOW JOIST OR ROOF TRUSS BEARINGS UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE TOP TRACK.
F. END BRACING OR CONTINUOUS JOISTS IS TO BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
G. WEB BRACKS OUT FOR BEAMS, JOISTS, AND RAFTERS ARE TO BE LOCATED A MINIMUM OF 1' AWAY FROM BEARING AND CONCENTRATED LOAD LOCATIONS. IF A PUNCH OUT FALLS WITHIN 1' OF THESE LOCATIONS, PROVIDE REINFORCEMENT FOR THE MEMBER AS REQUIRED. ALTERNATELY, LAP WELDED SECTIONS MAY BE PROVIDED FOR BEAMS, JOISTS AND RAFTERS.
H. EACH MEMBER OF MULTIPLE MEMBER COLUMNS ARE TO BE SCREWED TOGETHER USING FULL-HEIGHT TRACKS AND #10 SCREWS AT 12" O.C. ALTERNATELY, MULTIPLE MEMBER COLUMNS MAY BE WELDED TOGETHER WITH A 1" WELD AT 18" ON CENTER, EACH SIDE, EACH FACE, FOR THE FULL LENGTH OF THE COLUMN.
7. POST-INSTALLED ANCHOR SYSTEMS
1. GENERAL
A. LISTED ANCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABLE PRODUCTS. EACH ANCHOR HAS DEFINED CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FACTORS AND WILL VARY ACROSS MANUFACTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENTS ARE DETAILED FOR THEIR SPECIFIC PURPOSE AND CAPACITY. SUBSTITUTION OF ANCHORS FROM THOSE LISTED IS ONLY ALLOWED AFTER ENGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR.
B. EXTERIOR ANCHORAGES MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE DOCUMENTS.
C. ALL TEST-INSTALLED ANCHORS TO BE MINIMUM FOLLOWS ALL HOLD CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO SILICA DUST.
D. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS THROUGH MANUFACTURER TRAINING PROGRAMS.
E. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND WHERE SUPPORTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ANCHORS INSTALLATION PROGRAMS.
F. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL NOT BE LESS THAN 28 DAYS.
G. ALL ANCHORS CONTACT WITH REINFORCING TREATED LUMBER ARE TO BE HOT-DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM GIBS COATING OR STAINLESS STEEL WITH CHEMICAL PROTECTION CONFORMING TO AISI 302B OR AISI 316.
H. FASTENERS AND CONNECTIONS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL, OR HOT-DIPPED GALVANIZED, DO NOT MIX MATERIALS.
I. MINIMUM EMBEDMENT FOR MECHANICAL EXPANSION ANCHORAGE SYSTEMS IS TO BE 8 BOLT DIAMETERS, MINIMUM EMBEDMENT FOR SCREW ANCHOR AND ADHESIVE ANCHORAGE SYSTEMS IS TO BE 8 BOLT DIAMETERS.

- ABBREVIATIONS
AB ANCHOR BOLT
ADL ADDITIONAL
ALUM ALUMINUM
ARCH ARCHITECTURAL
B/B OR BOTTOM OF
BFB BOTTOM FLANGE BRACE
BLDG BUILDING
BM BEAM
BT BOTTOM
CFMF COLD-FORMED METAL FRAMING
CFMT COLD-FORMED METAL TRUSS
CONTR OR CONSTRUCTION JOINT
CLR CLEAR
CMJ CONSTRUCTION MANAGER
CMU CONCRETE MASONRY UNIT
COL COLUMN
CONC CONCRETE
CONT CONTINUOUS
COORD COORDINATE
COBY CUBIC YARD
DEA DEMOLISH OR DEMOLITION
DET DETAIL
DIA DIAMETER
DIAG DIAGONAL
DIM DIMENSION
DMW DRAWING
EA EACH
EJ EXPANSION JOINT
ENR ENGINEER
ENG EACH WAY
EXP EXPANSION
CLR CLEAR
FTG FOOTING
FIN FINISH OR FINISHED
FLR FLOOR
FTG FOOTING
FRV FIRE-RETARDANT TREATED WOOD
FVY FIELD VERIFY
G/G GAGE
GA GALVANIZE
GC GENERAL CONTRACTOR
HC HOLLOW CORE
HORZ HORIZONTAL
ID INSIDE DIMENSION
IF INSIDE FACE
INT INTERIOR
JT JOINT
JST JOIST
KB KICKER BRACE
L ANGLE
LGF LIGHT GAGE METAL FRAMING
LLB LONG LEG BACK-TO-BACK
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
MAS MASONRY
MAX MAXIMUM
MIN MINIMUM
MTL METAL
NA NORTH
NOT NOT APPLICABLE
NIC NOT IN CONTRACT
NOM NOMINAL
NTS NOT TO SCALE
OC ON CENTER
OD OUTSIDE DIAMETER
OH OVERHEAD
OPPOSITE
OPN OPENING
OSB ORIENTED STRAND BOARD
PFB POWDER ACTUATED FASTENERS
PCB PRECAST
PEMB PRE-ENGINEERED METAL BUILDING
PERF PERPENDICULAR
PLB POUNDS PER SQUARE INCH
PSF POUNDS PER SQUARE FOOT
REIN REINFORCING
REQD REQUIRED
SCHED SCHEDULE
SECT SECTION
SER STRUCTURAL ENGINEER OF RECORD
SF SQUARE FOOT
SL SLOPED
SLB SHORT LEG BACK-TO-BACK
SPECIFICATION
SQ SQUARE
ST STAINLESS STEEL
STD STANDARD
SY SQUARE YARD
SYM SYMMETRICAL
T/T TO TOP
T/B TOP AND BOTTOM
TEMP TEMPORARY OR TEMPORARY
T&G TONGUE AND GROOVE
TYP TYPICAL
UN UNLESS NOTED
UNO UNLESS NOTED OTHERWISE
VB VAPOR BARRIER
VER VERTICAL
W WIDE FLANGE
W/ WITH
WO WITHOUT
WT WEIGHT
WYF W

IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCE BUILDING CODE, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED ITEMS WHEN APPLICABLE. ALL INSPECTION AGENCIES, INCLUDING FABRICATION FACILITIES, WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL SYSTEMS.

TABLE 1 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X	
4. VERIFY USE OF PROPER MATERIAL DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X	

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X	
2. INSPECT ANCHORS CAST IN CONCRETE.	---	X	
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	---	X	
4. VERIFY USE OF REQUIRED DESIGN MIX.	---	X	
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	
6. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	---	X	
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	

LEVEL C QUALITY ASSURANCE REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	---	X	
2. VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:	---	X	
A. PROPORTIONS OF SITE-MIXED MORTAR AND GROUT.	---	X	
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS.	---	X	
C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS.	---	X	
D. PLACEMENT OF REINFORCEMENT AND CONNECTIONS.	---	X	
E. GROUT SPACE PRIOR TO GROUTING.	X	---	
F. PLACEMENT OF GROUT.	X	---	
G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	---	X	
H. TYPE, SIZE, AND LOCATIONS OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	X	---	
I. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F).	---	X	
3. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PROBS.	X	---	

REQUIRED SPECIAL INSPECTIONS AND TESTS OF COLD-FORMED STEEL — LIGHT FRAME CONSTRUCTION			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	
1. WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM.	---	X	
2. SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (BRAC STRUTS) AND HOLD-DOWNS.	---	X	

TABLE 2 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION			
TYPE	PERFORM	OBSERVE	
1. INSPECTION TASKS PRIOR TO WELDING:			
A. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS.	---	X	
B. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	X	---	
C. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	---	X	
D. MATERIAL IDENTIFICATION (TYPE/GRADE).	---	X	
E. WELDER IDENTIFICATION SYSTEM.	---	X	
F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):			
• JOINT PREPARATIONS.	---	X	
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL).	---	X	
• CLEANLINESS (CONDITION OF STEEL SURFACES).	---	X	
• TACKING (TACK WELD QUALITY AND LOCATION).	---	X	
• BACKING TYPE AND FIT (IF APPLICABLE).	---	X	
G. FIT-UP OF C/P GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY):			
• JOINT PREPARATIONS.	---	X	
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL).	---	X	
• CLEANLINESS (CONDITION OF STEEL SURFACES).	---	X	
• TACKING (TACK WELD QUALITY AND LOCATION).	---	X	
H. CONFIGURATION AND FINISH OF ACCESS HOLES.	---	X	
I. FIT-UP OF FILLET WELDS:			
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL).	---	X	
• CLEANLINESS (CONDITION OF STEEL SURFACES).	---	X	
• TACKING (TACK WELD QUALITY AND LOCATION).	---	X	
2. INSPECTION TASKS DURING WELDING:			
A. CONTROL AND HANDLING OF WELDING CONSUMABLES:			
• PACKAGING.	---	X	
• EXPOSURE CONTROL.	---	X	
B. NO WELDING OVER CRACKED TACK WELDS.	---	X	
C. ENVIRONMENTAL CONDITIONS:			
• WIND SPEED WITHIN LIMITS.	---	X	
• PRECIPITATION AND TEMPERATURE.	---	X	
D. WPS FOLLOWED:			
• SETTINGS ON WELDING EQUIPMENT.	---	X	
• TRAVEL SPEED.	---	X	
• SELECTED WELDING MATERIALS.	---	X	
• WELDING GAS TYPE/FLOW RATE.	---	X	
• PREHEAT APPLIED.	---	X	
• INTERPASS TEMPERATURE MAINTAINED (MIN/MAX).	---	X	
• PROPER POSITION (F, V, H, OH).	---	X	
• TRAVEL SPEED.	---	X	
E. WELDING TECHNIQUES:			
• INTERPASS AND FINAL CLEANING.	---	X	
• EACH PASS WITHIN PROFILE LIMITATIONS.	---	X	
• EACH PASS MEETS QUALITY REQUIREMENTS.	---	X	
F. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	X	---	
3. INSPECTION TASKS AFTER WELDING:			
A. WELDS CLEANED.	---	X	
B. SIZE, LENGTH, AND LOCATION OF WELDS.	---	X	
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA:			
• CRACK PROHIBITION.	---	X	
• WELD-BASE/METAL FUSION.	---	X	
• CRATER CROSS SECTION.	---	X	
• WELD PROFILES.	---	X	
• WELD SIZE.	---	X	
• UNDERCUT.	---	X	
• POROSITY.	---	X	
D. ARC STRIKES.	---	X	
E. K-AREA.	---	X	
F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES.	---	X	
G. BACKING REMOVED AND WELD TACKS REMOVED (IF REQUIRED).	---	X	
H. REPAIR ACTIVITIES.	---	X	
I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	---	X	
J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.	---	X	
K. NON-DESTRUCTIVE TESTING FOR COMPLETE JOINT PENETRATION (CJP) WELDS:			
• UT SHALL BE PERFORMED ON ALL CJP JOINTS IN MATERIAL 5/16" AND GREATER.	X	---	
4. INSPECTION TASKS AFTER BOLTING:			
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X	---	
5. ANCHOR ROD PLACEMENT:			
A. INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS (ANCHOR DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDMENT ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE) PRIOR TO PLACEMENT OF CONCRETE.	---	X	
6. INSPECTION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME IN COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.	---	X	

STRUCTURAL STEEL INSPECTION NOTES:
 1. "PERFORM" — THESE TASKS SHALL BE PERFORMED FOR EACH WELDED/BOLTED JOINT OR MEMBER.
 2. "OBSERVE" — THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE.

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING				
3,000 psi & 3,500 psi CONCRETE UNCOATED REINFORCING BARS				
BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER		
#4	3'-1"	2'-4"	3'-1"	2'-4"
#5	3'-10"	3'-0"	3'-10"	3'-0"
#6	4'-8"	3'-7"	4'-8"	3'-7"
#7	7'-6"	5'-9"	6'-9"	5'-2"
#8	9'-3"	7'-1"	7'-9"	5'-11"
#9	11'-2"	8'-7"	8'-8"	6'-8"
#10	13'-6"	10'-4"	9'-10"	7'-6"
#11	15'-10"	12'-2"	10'-11"	8'-4"

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING				
4,000 psi & 4,500 psi CONCRETE UNCOATED REINFORCING BARS				
BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER		
#4	2'-8"	2'-1"	2'-8"	2'-1"
#5	3'-4"	2'-7"	3'-4"	2'-7"
#6	4'-0"	3'-1"	4'-0"	3'-1"
#7	6'-6"	5'-0"	5'-10"	4'-6"
#8	8'-0"	6'-2"	6'-8"	5'-2"
#9	9'-8"	7'-6"	7'-6"	5'-10"
#10	11'-8"	9'-0"	8'-6"	6'-6"
#11	13'-8"	10'-6"	9'-5"	7'-3"

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING				
5,000 psi & 5,500 psi CONCRETE UNCOATED REINFORCING BARS				
BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER		
#4	2'-5"	1'-10"	2'-5"	1'-10"
#5	3'-0"	2'-4"	3'-0"	2'-4"
#6	3'-7"	2'-9"	3'-7"	2'-9"
#7	5'-9"	4'-5"	5'-3"	4'-0"
#8	7'-2"	5'-6"	6'-0"	4'-7"
#9	8'-8"	6'-8"	6'-9"	5'-2"
#10	10'-5"	8'-0"	7'-7"	5'-10"
#11	12'-3"	9'-5"	8'-5"	6'-6"

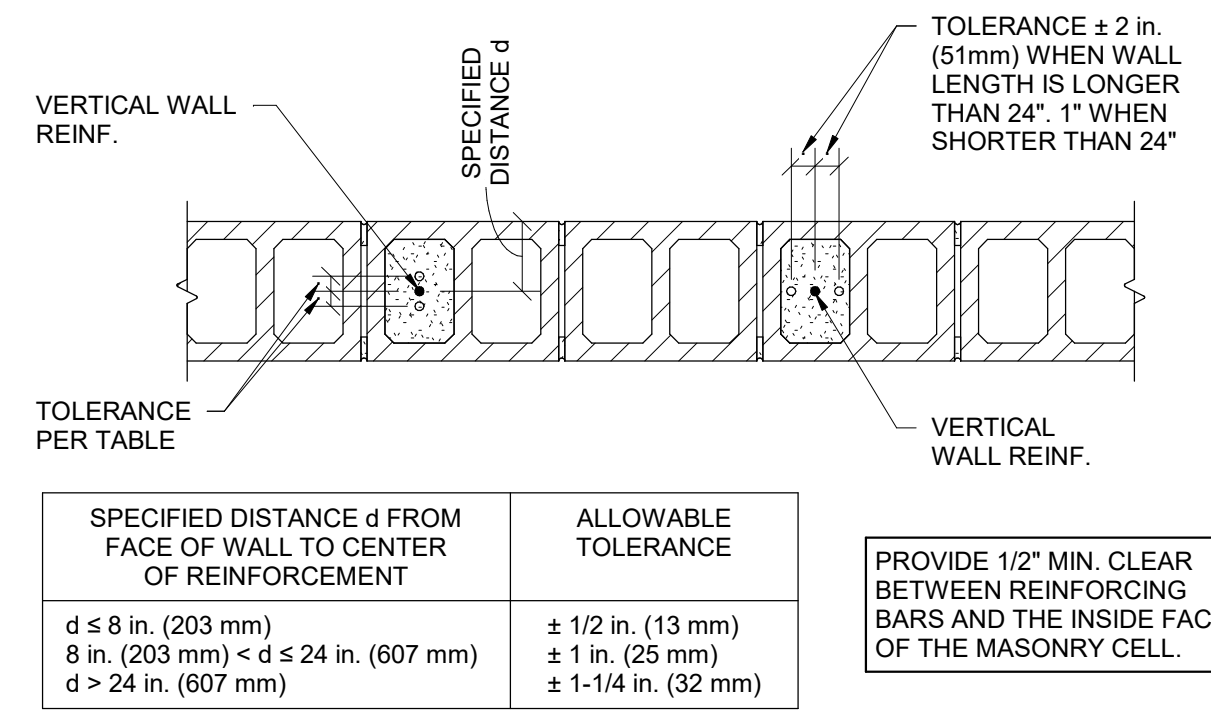
REINFORCING COVER/TOLERANCE (#3 - #11 BARS)		
EXPOSURE CONDITION	MIN. COVER (U.N.O.)	PLACEMENT TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	0", +3"
EXPOSED TO EARTH OR WEATHER - #6 AND SMALLER BARS:	1-1/2"	-1/4", +1/2"
- #6 AND LARGER BARS:	2"	-1/4", +1/2"
NEITHER EXPOSED TO WEATHER, NOR IN CONTACT WITH GROUND - SLABS AND WALLS:	3/4"	-1/4", +3/8"
- BEAMS, COLUMNS, & PIERS: (TO TIES OR STIRRUPS)	1-1/2"	-1/4", +1/2"

..* INDICATES TOLERANCE TOWARDS MEMBER FACE.
 ..** INDICATES TOLERANCE AWAY FROM MEMBER FACE.

- TOP BARS OTHER BARS TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
- BAR SPACING TO BE A MINIMUM OF THREE DIAMETERS UNLESS NOTED OR SCHEDULED OTHERWISE.
- APPLICABLE ONLY FOR 60 KSI STEEL AND NORMAL WEIGHT CONCRETE.
- IN LIEU OF LAP SPLICING, BARS MAY BE SPLICED BY MECHANICAL MEANS WHICH DEVELOP AT LEAST 125% OF THE BAR'S SPECIFIED YIELD STRENGTH.

LAP SPLICE SCHEDULE FOR MASONRY REINFORCING				
f'm = 2,250 psi	BAR CENTERED IN WALL d = t/2			
BAR #	8" CMU	10" CMU	12" CMU	14" CMU
#3	1'-0"	1'-0"	1'-0"	1'-0"
#4	1'-0"	1'-0"	1'-0"	1'-0"
#5	1'-7"	1'-3"	1'-0"	1'-0"
#6	2'-11"	2'-4"	1'-11"	1'-7"
#7	4'-1"	3'-2"	2'-7"	2'-2"
#8	(6'-3")	4'-10"	3'-11"	3'-4"
#9	-	(6'-2")	5'-0"	4'-3"

- () INDICATES LAP LENGTH GREATER THAN MAXIMUM ALLOWABLE HEIGHT OF 5'-0" FOR LOW-LIFT GROUTING.
- APPLICABLE ONLY FOR BARS CENTERED IN MASONRY CELL.
- APPLICABLE ONLY FOR 60 KSI STEEL AND ASTM C90 BLOCK.



CMU REINFORCING TOLERANCE LIMITATION

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Renovation and Addition
Huber Heights Fire Station 23
 7435 Old Troy Pike, Dayton, Ohio 45424

NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
DRAWN	JPK (R24)
CHECKED	SNF

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TITLE
 GENERAL STRUCTURAL INFORMATION

SHEET NO.
S0.2

SPREAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F3.0a	3'-0" x 3'-0" x 1'-10" DP.	(3) #5 EA. WAY TOP & BOT.

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F24a	2'-0" x 1'-10" DP.	(2) #5 CONT. TOP & BOT.
TS24	2'-0" x 1'-0" DP.	(2) #5 CONT. BOT.

MASONRY WALL REINFORCING SCHEDULE		
MARK	VERTICAL REINFORCING	REMARKS
W508	#5 @ 8" O.C.	STORM SHELTER

- MASONRY WALL REINFORCING SCHEDULE NOTES:**
- ALL BARS TO BE CENTERED IN CELL UNLESS NOTED IN SCHEDULE. COORDINATE POSITION WITH STRUCTURAL DETAILS.
 - PROVIDE ADDITIONAL BARS AT JAMBS OF OPENINGS AS INDICATED IN THE TYPICAL REINFORCED MASONRY WALL ELEVATION. PROVIDE ADDITIONAL BARS AT SPECIFIC LOCATIONS AS INDICATED ON PLAN.
 - LAP ALL BARS PER STANDARD MASONRY REINFORCING LAP SCHEDULE ON GENERAL STRUCTURAL SHEETS.

- FOUNDATION NOTES**
- INDICATES FOOTING STEP PER SECTION 152.1. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
 - INDICATES APPROXIMATE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES. COORDINATE THE LOCATION AND DEPTH OF ALL UNDERGROUND MECHANICAL, ELECTRICAL, PLUMBING, AND/OR CIVIL WORK WITH THE APPROPRIATE TRADE CONTRACTORS PRIOR TO CONSTRUCTION. NOT ALL UNDERGROUND UTILITIES ARE SHOWN ON THE STRUCTURAL DRAWINGS. FOUNDATIONS BUILT PRIOR TO THE INSTALLATION OF UNDERGROUND UTILITIES ARE TO BE STEPPED OR DROPPED COMPLETELY BELOW THE UTILITY DEPTH PER SECTION 152.1 AND SLEAVED PER SECTION 252.1. WHERE UNDERGROUND UTILITIES ARE IN PLACE PRIOR TO FOUNDATION CONSTRUCTION, THEY ARE TO BE ENCASED PER SECTION 352.1. SEE SECTION 852.1 FOR TRENCH EXCAVATION AND UTILITY PLACEMENT REQUIREMENTS FOR WORK THAT IS LADJACENT TO FOOTINGS.
 - INDICATES CONCRETE PIER TYPE PER DETAILS ON SHEET S2.1.
 - INDICATES EXISTING BUILDING CONSTRUCTION BASED ON ORIGINAL BUILDING DRAWINGS AND LIMITED FIELD INVESTIGATION. EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. ARE TO BE VERIFIED PRIOR TO CONSTRUCTION OR FABRICATION OF ANY MATERIAL BY CONTRACTOR PERFORMING WORK IN EXISTING AREAS. REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY. DO NOT REMOVE EXISTING LOAD-BEARING WALLS, COLUMNS, OR ANY SUCH STRUCTURE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. WHERE NEW STRUCTURE IS TO BE INSTALLED, PROVIDE SHORING AND BRACING AS REQUIRED TO PROPERLY SUPPORT THE REMAINING STRUCTURE UNTIL THE NEW STRUCTURE IS IN PLACE AND PROPERLY BRACED.
 - DESIGN SOIL BEARING PRESSURE = 1,500 PSF BASED ON GEOTECHNICAL EXPLORATION REPORT BY KOONTZ BRYANT JOHNSON WILLIAMS, INC., DATED OCTOBER 7, 2024. REFERENCE THIS REPORT FOR ANY REQUIRED SOIL REMEDIATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. REMOVE AND REPLACE EXISTING FILL REGIONS AS DIRECTED. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
 - BOTTOM OF FOOTINGS ARE TO BE AT LEAST 32-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR PROTECTION.
 - KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
 - ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
 - PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 454.2.
 - PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF VERTICAL MASONRY WALL REINFORCING AS SHOWN ON THE WALL AND/OR FRAMING PLANS. WHERE VERTICAL REINFORCING IS INTERRUPTED BY OPENING IN WALL (DOOR, WINDOW, LOUVER, ETC.), PROVIDE ONE ADDITIONAL DOWEL AT EACH JAMB FOR EACH 6'-0" OF OPENING WIDTH. SEE SECTION 652.1 FOR DOWEL PLACEMENT AND SCHEDULE ON SHEET S0.2 FOR LENGTH OF LAP SPLICES.
 - SEE FRAMING PLANS FOR LOCATIONS OF WOOD PANEL AND GYPSUM SHEATHED SHEARWALLS. SEE SHEARWALL SCHEDULE FOR END ANCHORAGE REQUIREMENTS AND SECTION 752.1 FOR ANCHOR BOLTS AND ADDITIONAL REINFORCING TO BE PLACED DURING FOUNDATION CONSTRUCTION.
 - SEE ELEVATION A54.1 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION.
 - SEE SECTION 652.1 FOR TYPICAL OUTDOOR MECHANICAL EQUIPMENT PADS.
 - SEE SHEET S4.1 FOR COLUMN SCHEDULE AND DETAILS.
 - SEE SHEETS S0.1 AND S0.2 FOR GENERAL STRUCTURAL INFORMATION.

- SLAB NOTES**
- SLAB CONSTRUCTION:
4" CONCRETE SLAB ON GRADE W/ 6# W2 9W2.9 WWF, OVER 15-MIL VAPOR BARRIER, OVER 4" COMPACTED STONE SUBBASE.
INDICATES SLAB CONTROL CONSTRUCTION JOINT PER SECTION 152.2. CONTROL JOINTS ARE TO BE LOCATED IN AREAS SHOWN AT A SPACING NOT TO EXCEED 12'-0" O.C. UNLESS DIMENSIONED OTHERWISE. PROVIDE CONTROL JOINTS AT COLUMNS PER DETAIL 252.2. COORDINATE CONTROL JOINT LAYOUT WITH ARCHITECTURAL FLOOR FINISH PATTERNS.
 - REFER TO DIVISION 31 SPECIFICATIONS FOR DEPTH AND PLACEMENT OF DRAINAGE FILL AND DIVISION 3 FOR VAPOR BARRIER OR RETARDER BELOW SLABS ON GRADE.
 - REFERENCE THE PROJECT'S GEOTECHNICAL REPORT FOR SOIL MITIGATION BELOW SLABS ON GRADE. REMOVE AND REPLACE EXISTING FILL REGIONS AS DIRECTED.
 - WIRE MESH AND/OR STEEL REINFORCING IS TO BE SUPPORTED DURING CONCRETE PLACEMENT ON CHAIRS OR BOLSTERS AT MID-DEPTH OF SLAB. MESH AND/OR STEEL REINFORCING IS NOT TO BE PULLED INTO PLACE DURING CONCRETE PLACEMENT.
 - SEE ARCHITECTURAL AND/OR STRUCTURAL PLANS FOR FINISHED FLOOR ELEVATIONS. COORDINATE TOP OF SLAB ELEVATION WITH THICKNESS OF ARCHITECTURAL FINISHED FLOOR PRODUCTS.
 - REFERENCE SPECIFICATIONS FOR CONCRETE MIX TO BE USED AT POLISHED CONCRETE FLOOR SLABS. SLAB CONTROL CONSTRUCTION JOINTS SHALL BE LOCATED IN COORDINATION WITH THE POLISHED CONCRETE FLOOR FINISHES INDICATED ON THE ARCHITECTURAL FLOOR FINISH DRAWINGS. CONTRACTOR TO SUBMIT CONTROL JOINT LAYOUT DRAWINGS FOR REVIEW AND APPROVAL WITH SAWI CUT LOCATIONS INDICATED.
 - SEE SECTION 352.1 FOR TYPICAL NEW-TO-EXISTING SLAB TRANSITION. SEE SECTION 452.1 FOR TYPICAL FLOOR SLAB TRENCH INFILL.
 - SEE SHEETS S0.1 AND S0.2 FOR GENERAL STRUCTURAL INFORMATION.

WALL SCHEDULE		
MARK	STUD SIZE AND SPACING	COMMENTS
W1	600S162-54 @ 16" O.C.	TYP. BEARING WALL U.N.O.
W2	362S162-54 @ 16" O.C.	-

- WALL SCHEDULE NOTES:**
- BEARING WALL STUDS ARE TO ALIGN DIRECTLY BELOW THE JOIST OR TRUSS THAT THE WALL IS SUPPORTING UNLESS A TOP DISTRIBUTION TRACK IS PROVIDED.
 - REVIEW ALL FRAMING DETAILS FOR TYPICAL ARRANGEMENT OF STUDS, BEARING CONDITIONS, BRIDGING, AND BLOCKING REQUIREMENTS.
 - ALL MULTIPLE MEMBERS SHALL BE INTERCONNECTED TOGETHER WITH #10 SCREWS AT 12" ON CENTER OR 1" WELDS AT 18" ON CENTER.
 - ALL ENDS OF AXIAL LOAD BEARING WALL STUDS SHALL HAVE SQUARE END CUTS AND SHALL BE SEATED TIGHT AGAINST TRACK WITH A MAXIMUM GAP TOLERANCE OF 1/8" BETWEEN THE END OF THE STUD AND THE WEB OF THE TRACK.
 - ALL STUDS SHALL OF ONE CONTINUOUS MEMBER AND SHALL NOT BE SPLICED WITHOUT AN APPROVED DESIGN.

SHEARWALL SCHEDULE									
MARK	SHEATHING PANEL	PANEL APPLICATION	SHEATHING PANEL FASTENING			BOTTOM TRACK ANCHORAGE	END STUDS	END ANCHORAGE	COMMENTS
			FASTENERS	PANEL EDGES	PANEL FIELD				
SW1	5/8" GYP. BOARD	BOTH SIDES	#6	4"	12"	(2) 0.154"Ø PAF'S @ 16" O.C.	2	S/HDU4 W/ 5/8"Ø ANCHOR	BLOCK ALL PANEL EDGES
SW2	22 GA. "SURE-BOARD"	ONE SIDE	#8	4"	12"	(2) 0.154"Ø PAF'S @ 12" O.C.	2	S/HDU6 W/ 5/8"Ø ANCHOR	BLOCK ALL PANEL EDGES

- SHEARWALL SCHEDULE NOTES:**
- ALL HORIZONTAL PANEL EDGES SHALL BE FASTENED TO SOLID STRAP BRIDGING/BLOCKING, STUDS LAID HORIZONTAL, OR HORIZONTAL TRACKS.
 - FASTENER SUBSTITUTIONS ARE NOT PERMITTED UNLESS APPROVED ENGINEER REVIEW IS COMPLETED AT CONTRACTOR'S EXPENSE.
 - COORDINATE SOLE PLATE ANCHORAGES WITH TYPICAL CONSTRUCTION DETAILS INDICATED THROUGHOUT STRUCTURAL DRAWINGS.
 - SEE STRUCTURAL DETAILS FOR TRACK SPLICING DETAIL.

- MASONRY WALL NOTES**
- MU(4) INDICATES MASONRY BOND BEAM LINTEL PER SECTION 154.2. USE STANDARD SCHEDULED BOND BEAM LINTELS FOR ALL EXPOSED ARCHITECTURAL OPENINGS IN NON-LOADBEARING MASONRY WALLS UNLESS NOTED OTHERWISE.
 - VU(4) INDICATES VENEER LINTEL PER SECTION 254.2. USE STANDARD SCHEDULED VENEER LINTELS FOR ALL OPENINGS IN BRICK OR MASONRY VENEERS UNLESS NOTED OTHERWISE.
 - AL(9) INDICATES STEEL ANGLE LINTEL IN EXISTING WALL PER SECTION 354.2. USE STANDARD SCHEDULED ANGLE LINTELS FOR ALL NEW OPENINGS IN EXISTING NON-LOADBEARING MASONRY WALLS UNLESS NOTED OTHERWISE.
 - WV INDICATES MASONRY WALL REINFORCING TYPE PER SCHEDULE. ALL REINFORCING IS TO RUN FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. WHERE SPACING OF VERTICAL REINFORCING IS INTERRUPTED BY OPENING IN WALL (DOOR, WINDOW, LOUVER, ETC.) PROVIDE ONE FULL-HEIGHT REINFORCING BAR AT EACH JAMB FOR EACH 6'-0" OF OPENING WIDTH. SEE SCHEDULE ON SHEET S0.2 FOR LENGTH OF LAP SPLICES.
 - NOT ALL LINTELS ARE SHOWN ON THESE PLANS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, WIDTH, HEIGHT, AND ELEVATION OF ALL EXPOSED OPENINGS. COORDINATE LOCATION, WIDTH, HEIGHT, AND ELEVATION OF ALL CONCEALED OPENINGS WITH APPROPRIATE TRADE CONTRACTOR. LINTELS SHOWN OFFSET FROM CENTERLINE OF WALL TYPICALLY INDICATE OPENINGS FOR MECHANICAL, ELECTRICAL, PLUMBING, AND/OR TECHNOLOGY WORK.
 - LINTELS ARE NOT REQUIRED FOR OPENINGS IN CMU WALLS LESS THAN 16" WIDE AND IN BRICK VENEERS LESS THAN 8" WIDE. MASONRY CONTRACTOR IS TO COORDINATE ALL OPENING REQUIREMENTS WITH APPROPRIATE TRADE CONTRACTOR.
 - SEE ELEVATION A54.1 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION. PROVIDE CORNER BARS AT ALL MASONRY BOND BEAM INTERSECTIONS PER DETAIL 454.2.
 - SEE SHEETS S0.1 AND S0.2 FOR GENERAL STRUCTURAL INFORMATION.

- COLD-FORMED METAL STUD WALL NOTES**
- TYPICAL WALL SHEATHING:
5/8" GYPSUM WALLBOARD. PROVIDE No. 6 x 1-1/4" TYPE S OR W SCREWS AT 7" O.C. AROUND ALL PANEL EDGES AND AT 7" O.C. FOR ALL INTERMEDIATE SUPPORTS UNLESS NOTED OR SCHEDULED OTHERWISE. ALL PANEL EDGES ARE TO BE FULLY BLOCKED AT SHEARWALL LOCATIONS.
 - H(4) INDICATES OPENING HEIGHT AND ELEVATION PER SECTION 454.3. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, EXTENT, AND SUPPORT REQUIREMENTS. SEE SECTION 654.2 FOR SILL CONSTRUCTION WHERE APPLICABLE.
 - INDICATES GYPSUM BOARD, WOOD PANEL, OR LAMINATED STEEL SHEET SHEARWALL. SEE SHEARWALL SCHEDULE FOR SHEAR PANEL TYPE, FASTENING, BLOCKING, AND ANCHORAGE REQUIREMENTS. PROVIDE SOLID STRAP BRIDGING/BLOCKING PER SECTION 754.2 AT ALL HORIZONTAL SHEARWALL PANEL EDGES.
 - WALL STUDS ARE TO EXTEND CONTINUOUS FOR FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. WHERE STUDS ARE INTERRUPTED BY OPENING IN WALL (WINDOW, LOUVER, ETC.) PROVIDE ONE FULL-HEIGHT STUD AT EACH JAMB FOR EACH 2'-0" OF OPENING WIDTH.
 - PROVIDE CONTINUOUS HORIZONTAL BRIDGING AT 4'-0" O.C. WHERE SHEATHING PANELS NEED NOT BE BLOCKED. PROPRIETARY BRIDGING SYSTEMS MAY BE USED IF APPROVED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
 - ALL WALL DIMENSIONS SHOWN ARE TO FACE OF STUD.
 - SEE SHEETS S0.1 AND S0.2 FOR GENERAL STRUCTURAL INFORMATION.

- STORM SHELTER FRAMING NOTES**
- DESIGN LIVE LOADS:
ROOF LIVE 100 PSF
COLLAPSE / LAYDOWN +20 PSF
 - ROOF CONSTRUCTION:
8" THICK CAST-IN-PLACE CONCRETE SLAB. SEE PLANS AND/OR SECTIONS FOR REINFORCING SIZE, SPACING, LAYOUT, AND POSITION.
 - SSL(4) INDICATES MASONRY BOND BEAM LINTEL IN STORM SHELTER CONSTRUCTION PER SECTION 154.3. PROVIDE ADDITIONAL JAMB REINFORCING EACH END PER DETAIL 254.3. COORDINATE EMBED PLATE REQUIREMENTS WITH OPENING PROTECTION DEVICE MANUFACTURER.
 - INDICATES OPENING IN STORM SHELTER CAP. COORDINATE EXACT SIZE AND LOCATION WITH THE APPROPRIATE TRADE CONTRACTOR(S). NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE PLATE SHROUDS PER SECTION 654.3 AT ALL OPENINGS IN STORM SHELTER CAP (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER.
 - TOP OF SLAB ELEVATION NOTED ON PLAN. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
 - CONSTRUCT CORNERS OF STORM SHELTER MASONRY WALLS PER DETAIL 354.3. SEE DETAIL 454.3 FOR OFF-COURSING PLAN CONSTRUCTION. SEE SECTION 954.3 FOR OFF-COURSING SILL AND HEAD CONSTRUCTION.
 - PROVIDE PLATE SHROUDS PER SECTION 754.3 OR DETAIL 854.3 FOR ALL WALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER.
 - SEE SHEETS S0.1 AND S0.2 FOR GENERAL STRUCTURAL INFORMATION.

HEADER SCHEDULE						
MARK	MAIN MEMBERS	TRACK TOP & BOT.	SILL TRACK	JAMB STUDS EA. END	CONNECTION SCREWS EA. END	COMMENTS
H1	(2) 600S162-54	362T125-43	362T125-43	2	(8) #10	-
H2	(2) 600S162-54	600T125-43	600T125-43	2	(8) #10	-
H3	(2) 1200S162-97	600T200-54	600T200-54	3	(12) #10	-

- HEADER SCHEDULE NOTES:**
- ALL HEADER MEMBERS AND JAMB STUDS SHALL BE OF ONE CONTINUOUS PIECE. SPLICING OF MEMBERS IS NOT PERMITTED.
 - PUNCHED WEB OPENINGS ARE NOT PERMITTED IN HEADER MEMBER FRAMING.
 - SEE FRAMING SECTIONS FOR TYPICAL HEADER, SILL, AND JAMB FRAMING CONSTRUCTION.
 - PROVIDE 'H1' HEADERS FOR ALL OPENINGS NOT DESIGNATED ON THE FRAMING PLANS.

- ROOF FRAMING NOTES**
- DESIGN LIVE/SNOW LOADS:
ROOF LIVE 20 PSF
ROOF SNOW 24 PSF + DRIFT
 - ROOF CONSTRUCTION:
5/8" NOMINAL FIRE-RETARDANT TREATED APA RATED SHEATHING, EXPOSURE 1, WITH A 4002 MINIMUM SPAN RATING. PROVIDE No. 8 SCREWS FOR FRAMING THICKNESSES UP TO 5/4 MILS AND No. 10 SCREWS FOR FRAMING MEMBERS OVER 5/4 MILS. SPACE SCREWS AT 6" O.C. AT ALL PANEL EDGES AND AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
 - INDICATES ROOF OPENING. COORDINATE EXACT SIZE AND LOCATION WITH THE APPROPRIATE TRADE CONTRACTOR(S). NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. SEE SECTION 854.2 FOR FRAMING OF ALL OPENINGS EQUAL TO OR GREATER THAN 12" SQUARE OR DIAMETER. SIZE OF OPENING IS NOT TO EXCEED THE TYPICAL CLEAR DISTANCE BETWEEN FRAMING MEMBERS OR TRUSSES. NOTIFY THE ARCHITECT BEFORE PROCEEDING IF OPENINGS CANNOT BE FIT BETWEEN FRAMING MEMBERS.
 - INDICATES MECHANICAL LOAD SUPPORTED ON ROOF. COORDINATE FINAL SIZE, WEIGHT, LOCATION, AND OPENING REQUIREMENTS WITH MECHANICAL CONTRACTOR. TOLERANCE FOR LOCATION OF ACTUAL UNIT IS 2 FEET IN ANY DIRECTION FROM WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
 - INDICATES SNOW DRIFT LOAD ON ROOF. STRUCTURE HAS BEEN SIZED FOR THE LOAD SHOWN UNLESS NOTED OR SCHEDULED OTHERWISE.
 - INDICATES EXISTING BUILDING CONSTRUCTION BASED ON ORIGINAL BUILDING DRAWINGS AND LIMITED FIELD INVESTIGATION. EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR FABRICATION OF ANY MATERIAL BY CONTRACTOR PERFORMING WORK IN EXISTING AREAS. REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY. DO NOT REMOVE EXISTING LOAD-BEARING WALLS, COLUMNS, OR ANY SUCH STRUCTURE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. WHERE NEW STRUCTURE IS TO BE INSTALLED, PROVIDE SHORING AND BRACING AS REQUIRED TO PROPERLY SUPPORT THE REMAINING STRUCTURE UNTIL THE NEW STRUCTURE IS IN PLACE AND PROPERLY BRACED.
 - INDICATES SIZE OF EXISTING FRAMING.
 - TOP OF STRUCTURAL STEEL JOIST BEARING, OR TRUSS BEARING ELEVATION NOTED ON PLAN. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
 - SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
 - COORDINATE THE LOCATION OF ALL JOISTS WITH ARCHITECTURAL PARTITION WALLS BELOW. DO NOT INSTALL JOISTS DIRECTLY OVER A PARALLEL WALL BELOW, UNLESS NOTED OTHERWISE.
 - PROVIDE CONTINUOUS COLD-FORMED JOIST BLOCKING AT 8'-0" O.C. PER SECTION 954.2.
 - SEE SHEET S4.1 FOR COLUMN SCHEDULE AND DETAILS.
 - SEE SHEETS S0.1 AND S0.2 FOR GENERAL STRUCTURAL INFORMATION.

- STORM SHELTER FRAMING NOTES**
- DESIGN LIVE LOADS:
ROOF LIVE 100 PSF
COLLAPSE / LAYDOWN +20 PSF
 - ROOF CONSTRUCTION:
8" THICK CAST-IN-PLACE CONCRETE SLAB. SEE PLANS AND/OR SECTIONS FOR REINFORCING SIZE, SPACING, LAYOUT, AND POSITION.
 - SSL(4) INDICATES MASONRY BOND BEAM LINTEL IN STORM SHELTER CONSTRUCTION PER SECTION 154.3. PROVIDE ADDITIONAL JAMB REINFORCING EACH END PER DETAIL 254.3. COORDINATE EMBED PLATE REQUIREMENTS WITH OPENING PROTECTION DEVICE MANUFACTURER.
 - INDICATES OPENING IN STORM SHELTER CAP. COORDINATE EXACT SIZE AND LOCATION WITH THE APPROPRIATE TRADE CONTRACTOR(S). NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE PLATE SHROUDS PER SECTION 654.3 AT ALL OPENINGS IN STORM SHELTER CAP (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER.
 - TOP OF SLAB ELEVATION NOTED ON PLAN. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
 - CONSTRUCT CORNERS OF STORM SHELTER MASONRY WALLS PER DETAIL 354.3. SEE DETAIL 454.3 FOR OFF-COURSING PLAN CONSTRUCTION. SEE SECTION 954.3 FOR OFF-COURSING SILL AND HEAD CONSTRUCTION.
 - PROVIDE PLATE SHROUDS PER SECTION 754.3 OR DETAIL 854.3 FOR ALL WALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER.
 - SEE SHEETS S0.1 AND S0.2 FOR GENERAL STRUCTURAL INFORMATION.

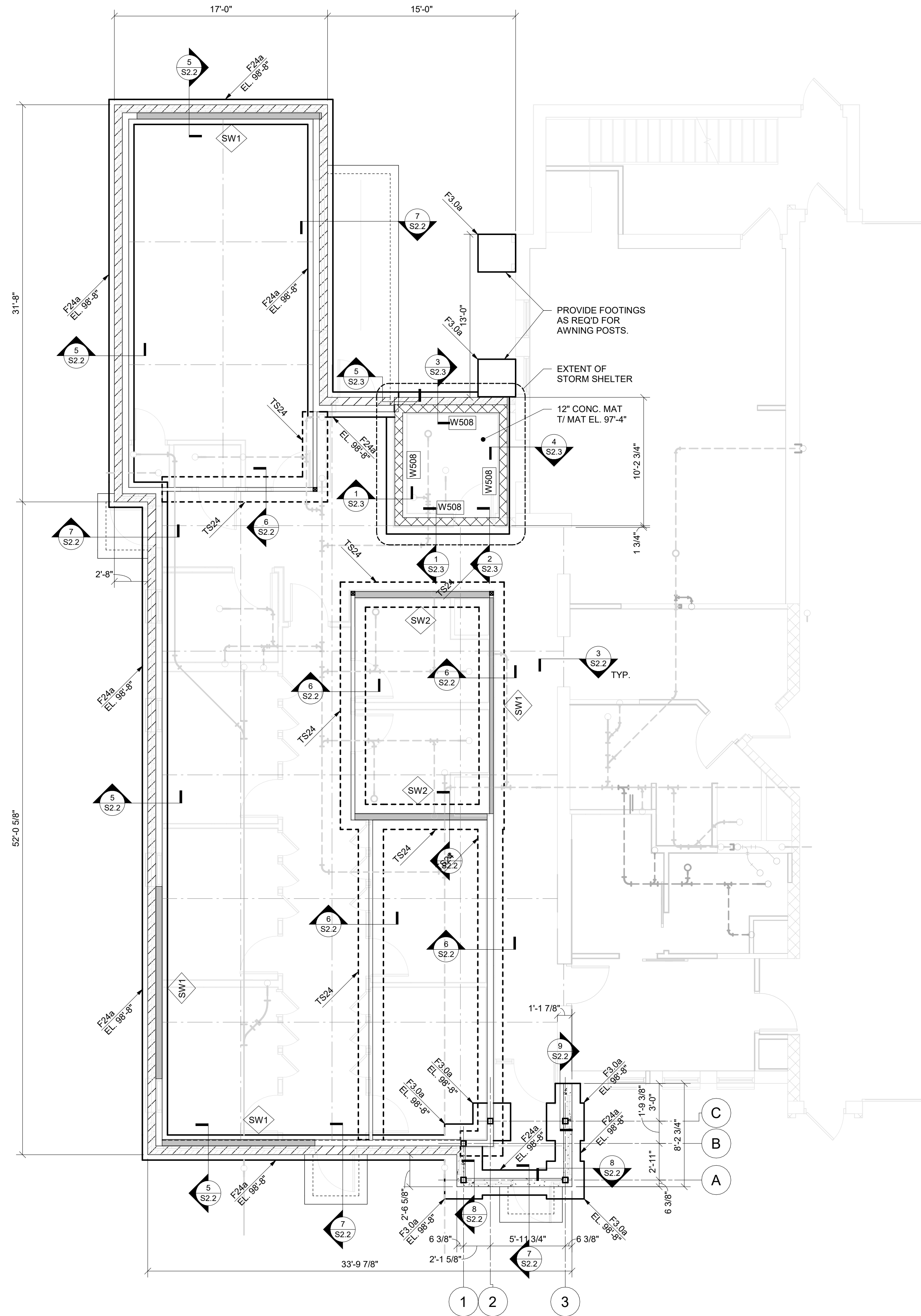


NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
DRAWN	JPK (R24)
CHECKED	SNF

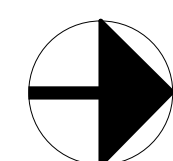
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TITLE
GENERAL STRUCTURAL INFORMATION

SHEET NO.
S0.3



FOUNDATION PLAN

3/16" = 1'-0"



Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

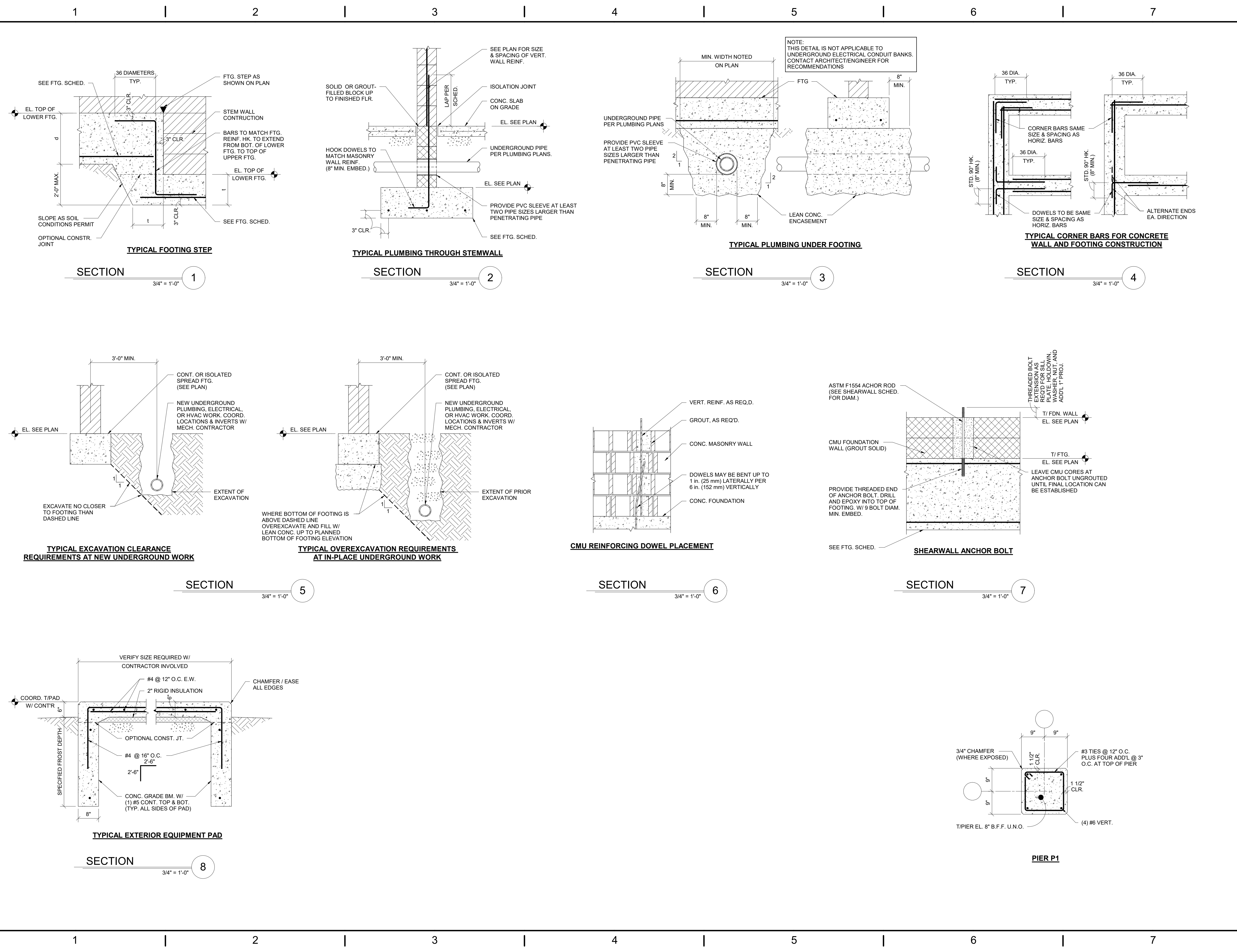
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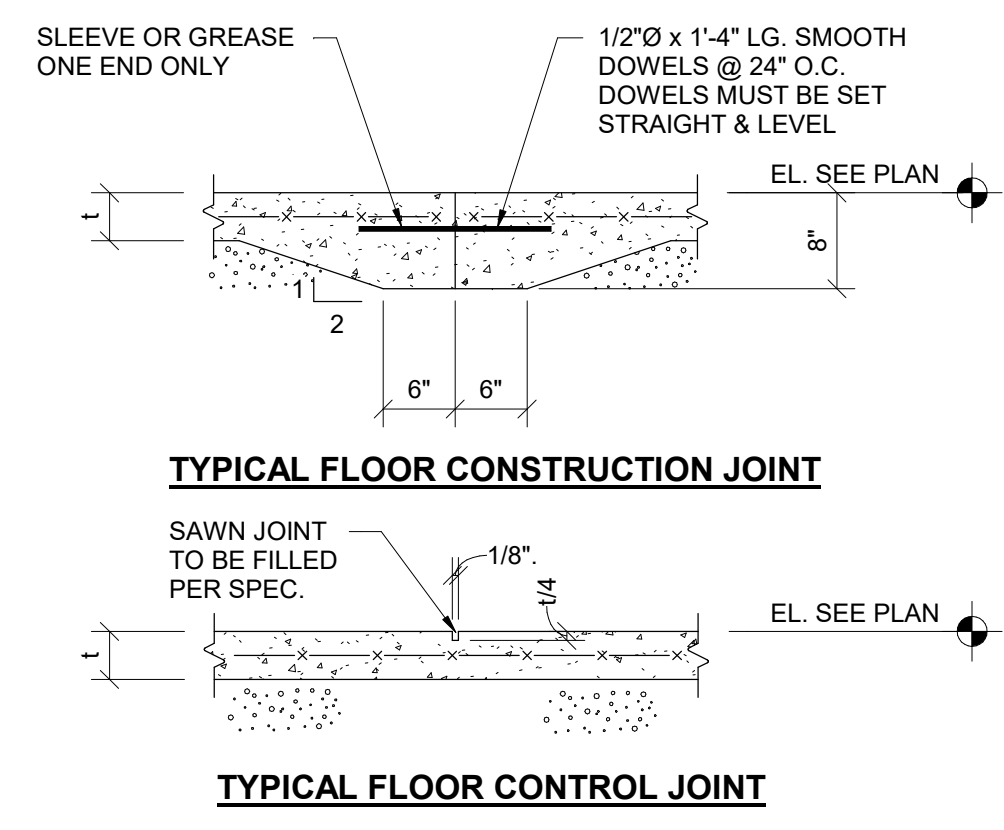
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TITLE
FOUNDATION PLAN

SHEET NO.
S1.1

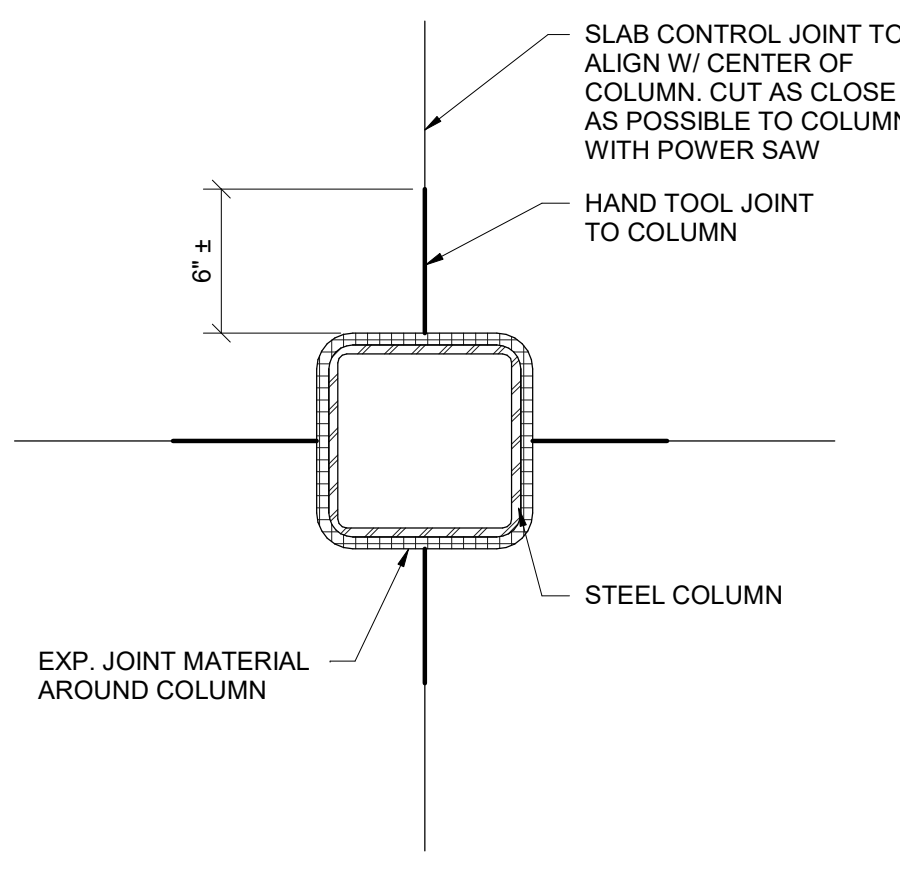


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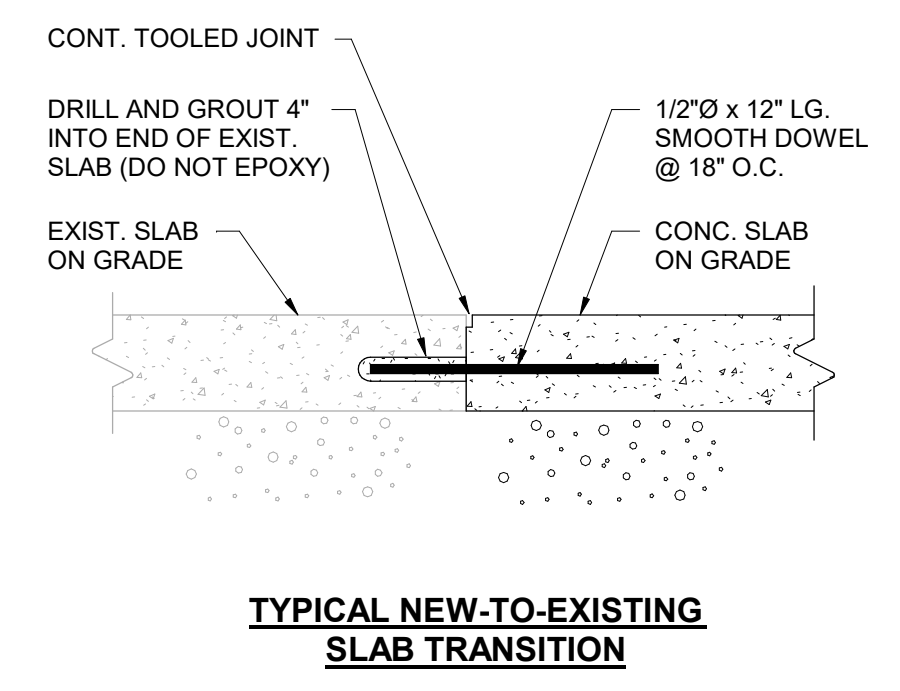
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TITLE FOUNDATION DETAILS	



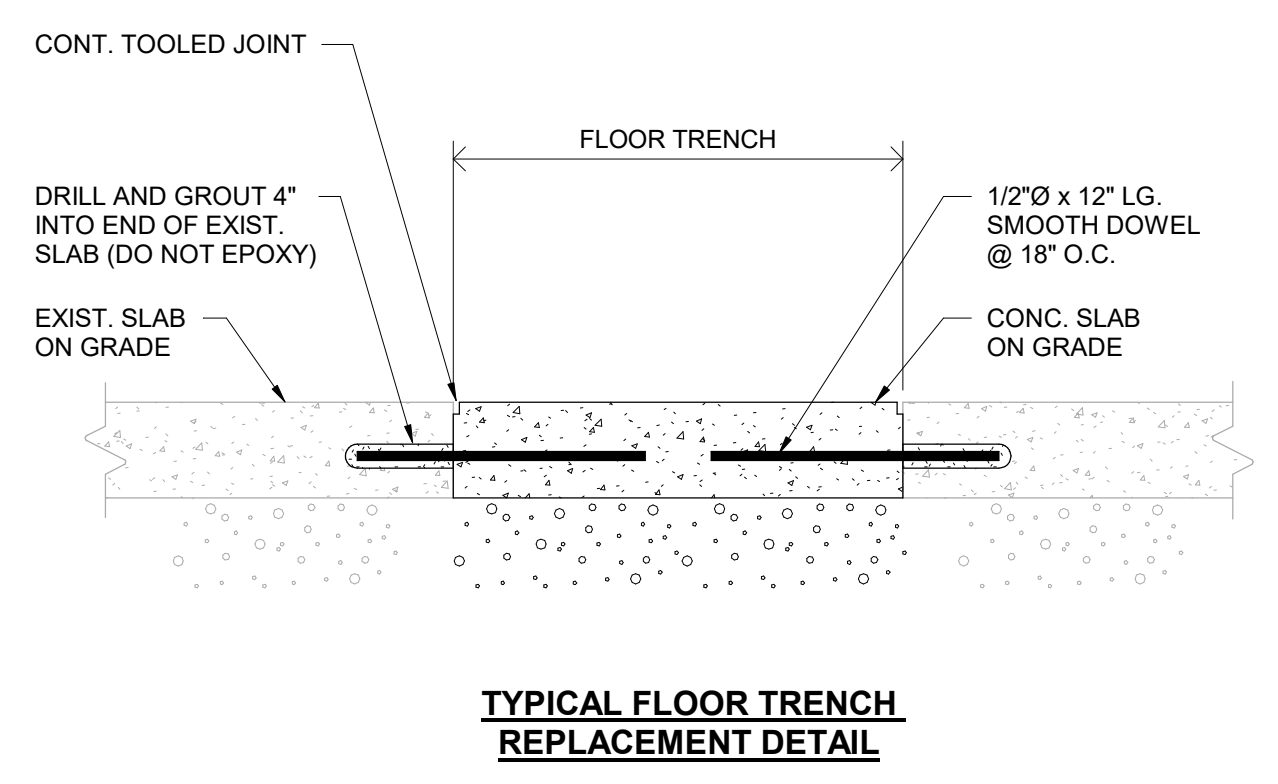
SECTION 1
 3/4" = 1'-0"



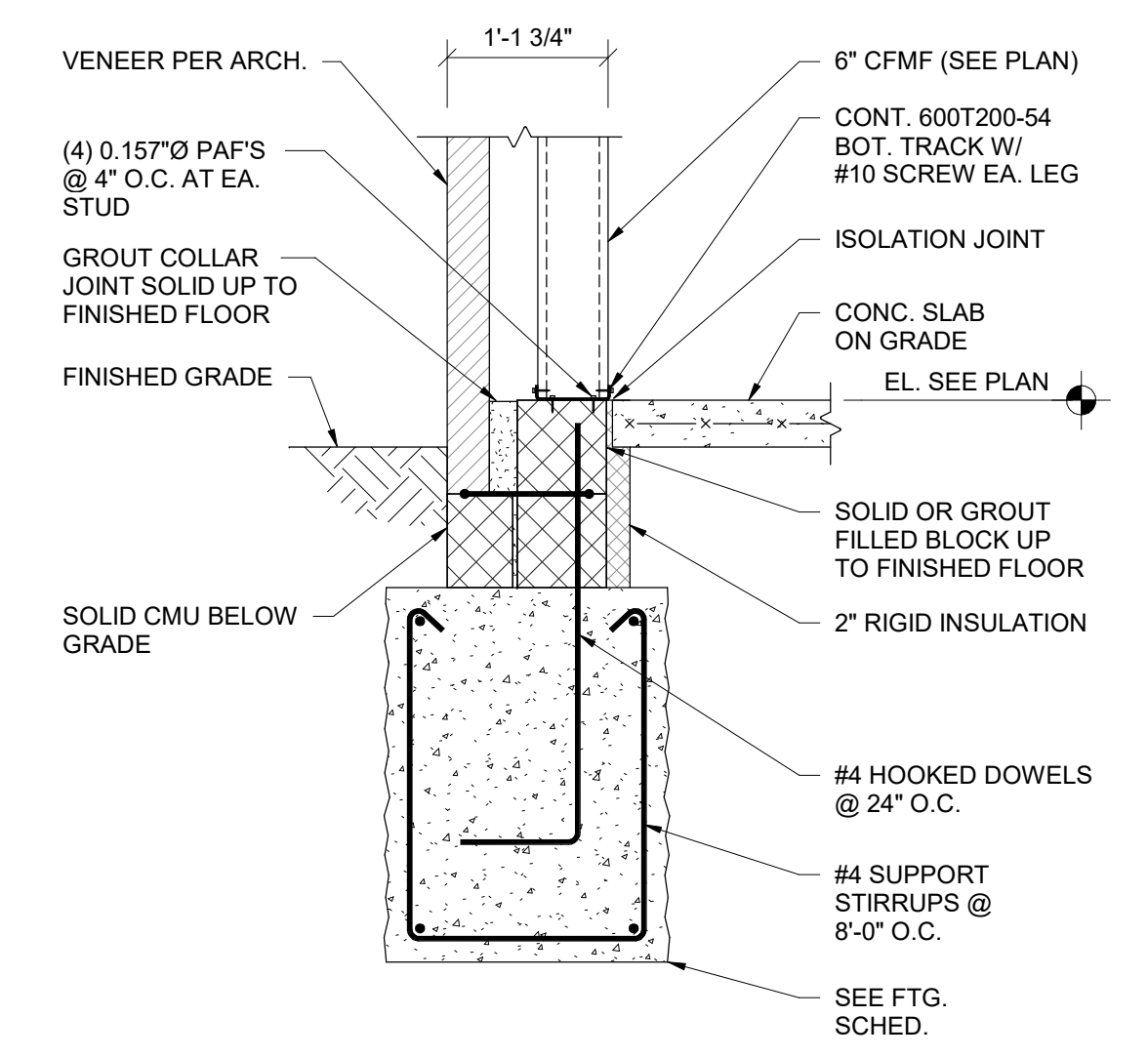
SECTION 2
 1 1/2" = 1'-0"



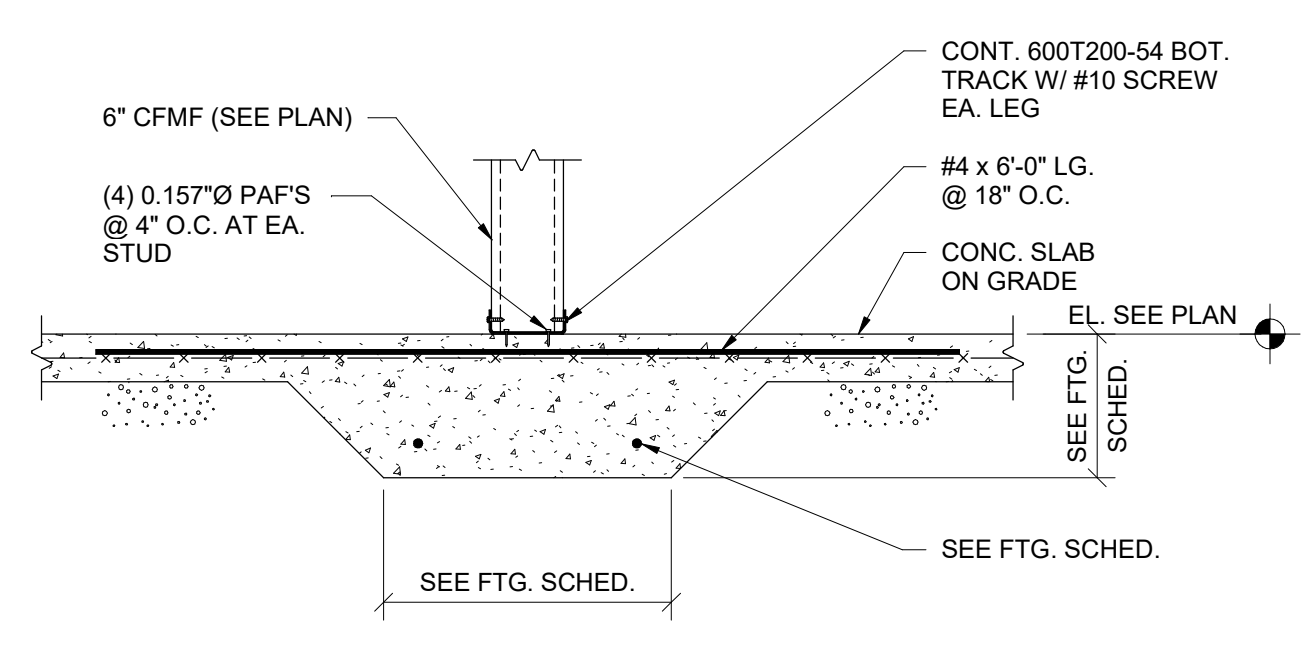
SECTION 3
 1 1/2" = 1'-0"



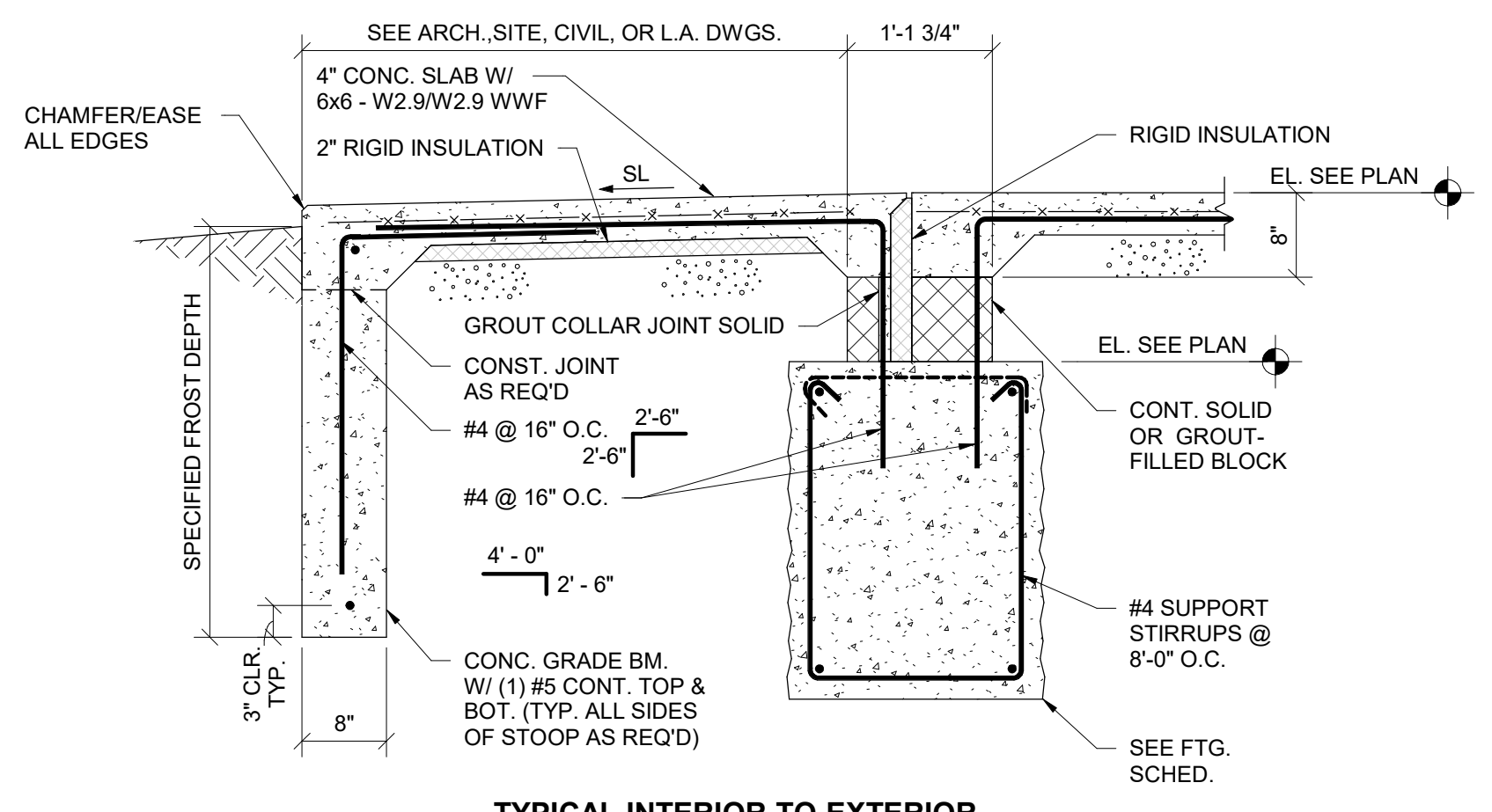
SECTION 4
 1 1/2" = 1'-0"



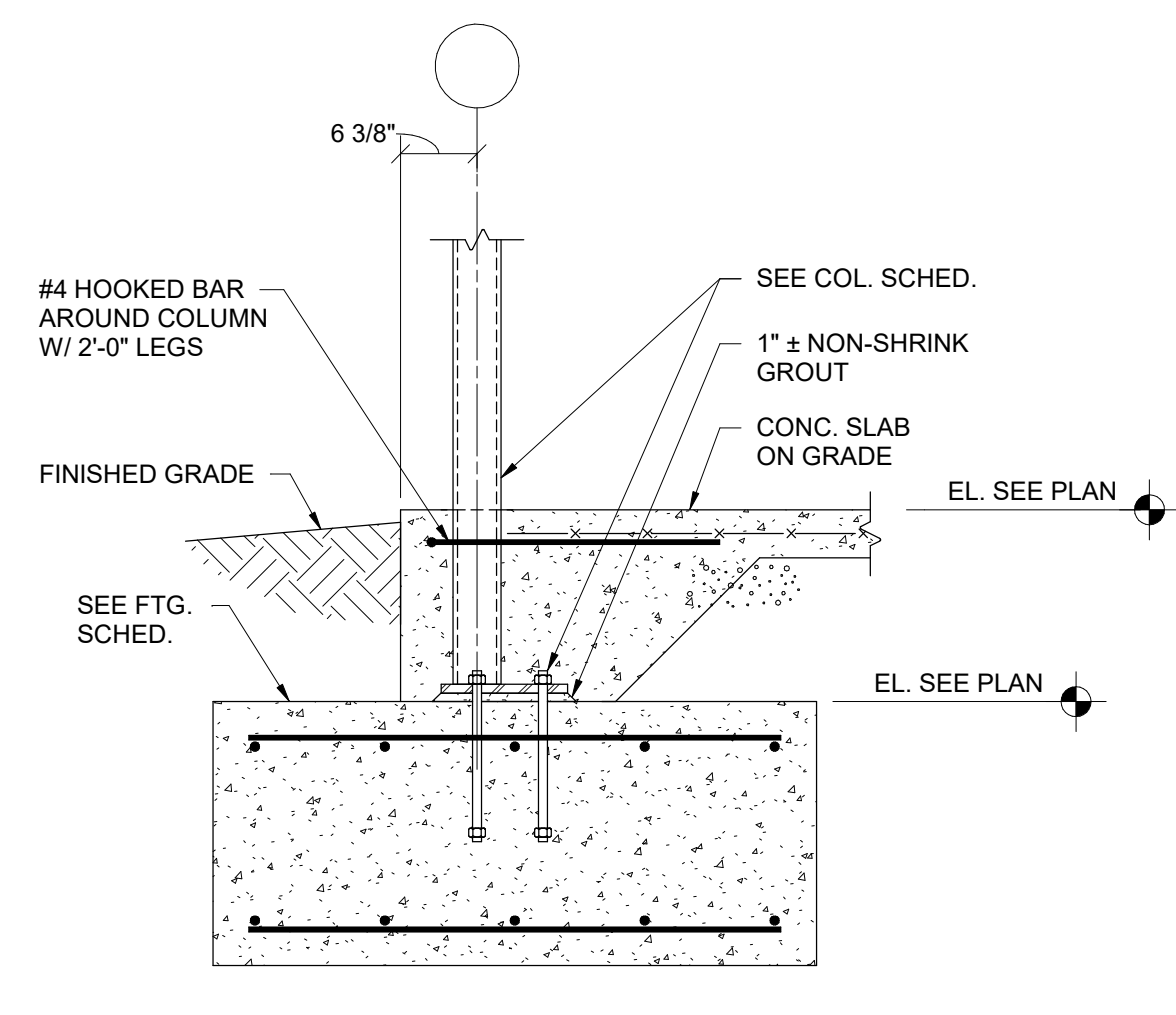
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 3/4" = 1'-0"



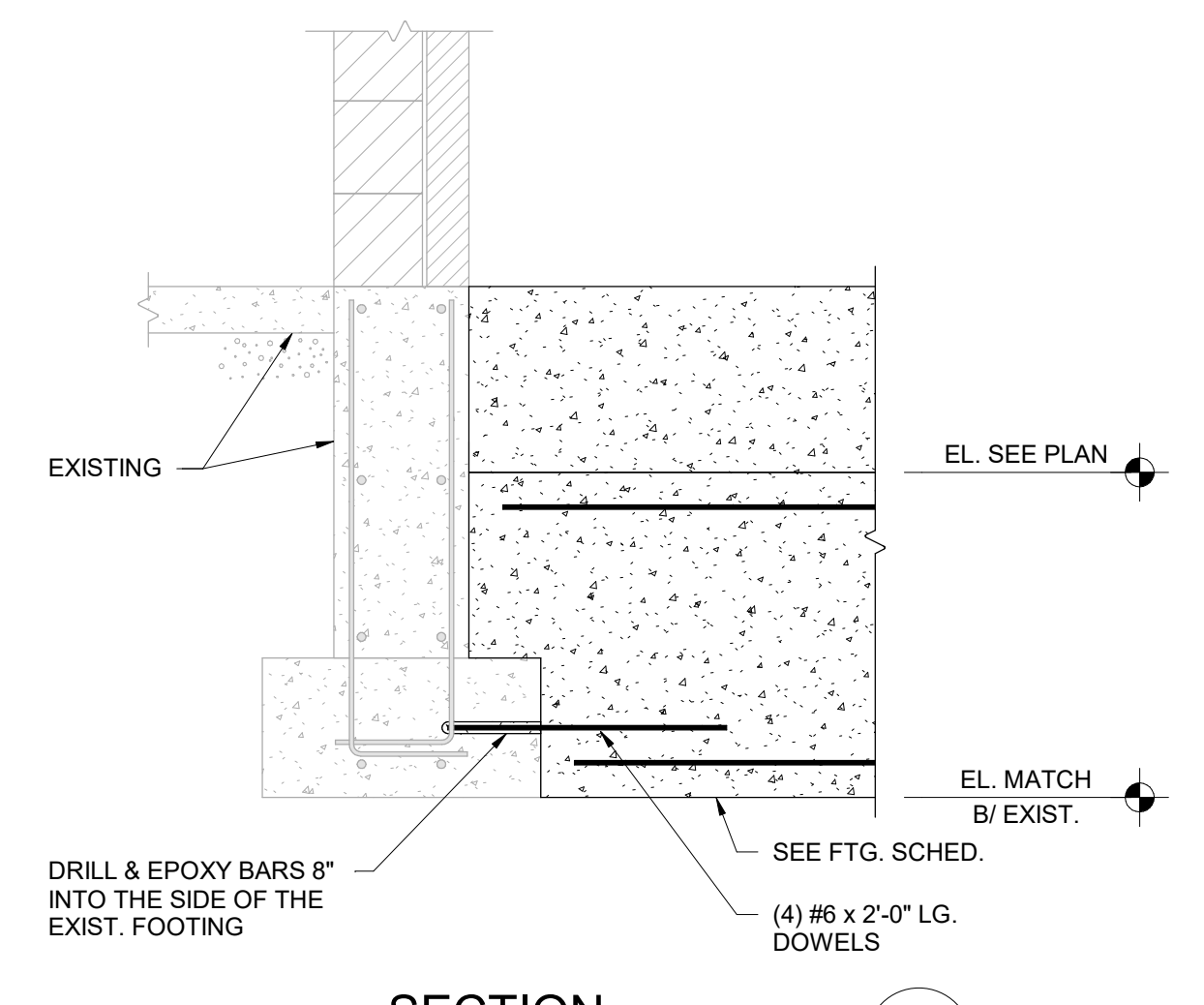
SECTION 6
 3/4" = 1'-0"



SECTION 7
 3/4" = 1'-0"



SECTION 8
 3/4" = 1'-0"



SECTION 9
 3/4" = 1'-0"



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1

2

3

4

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6

7

A

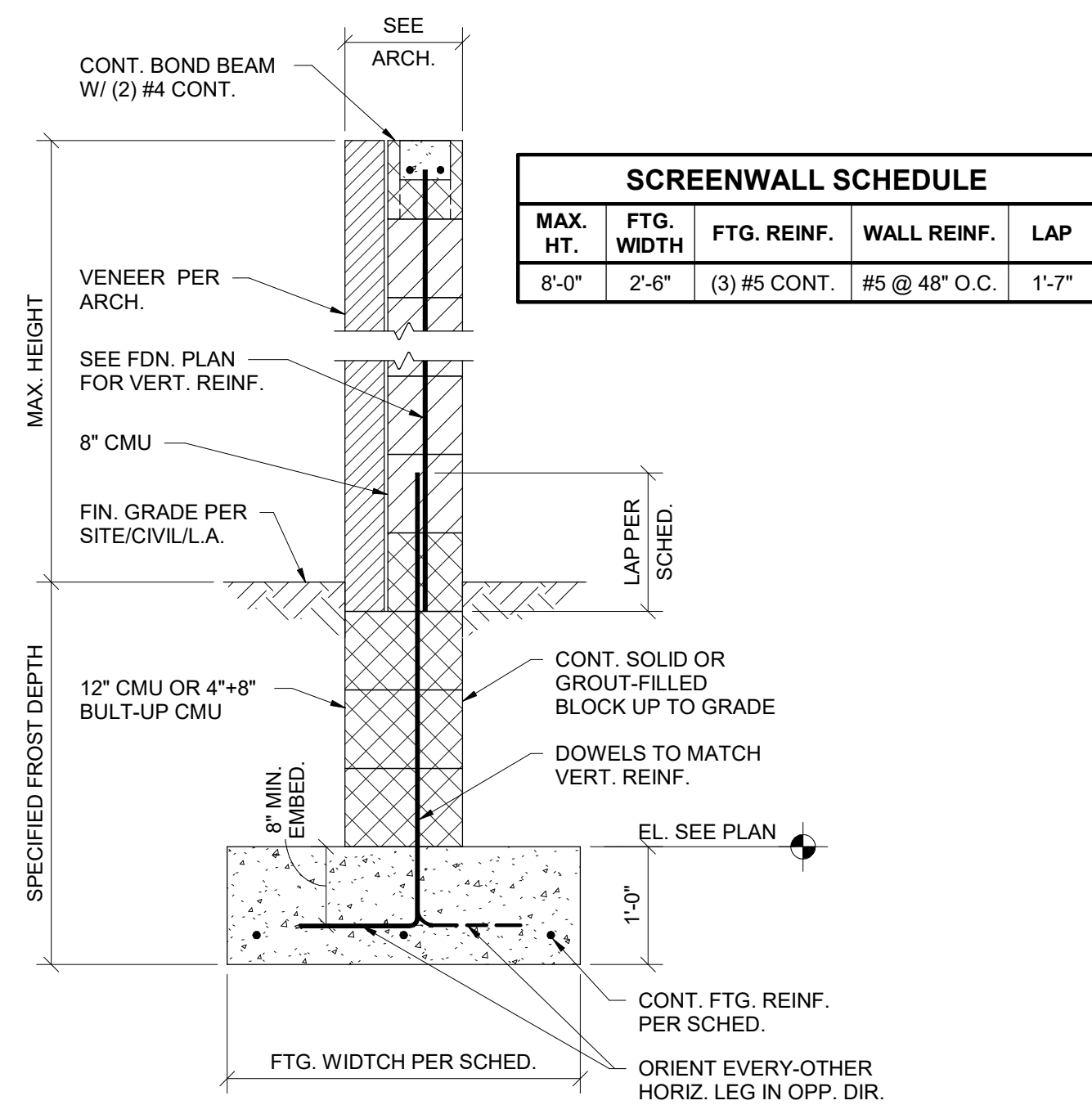
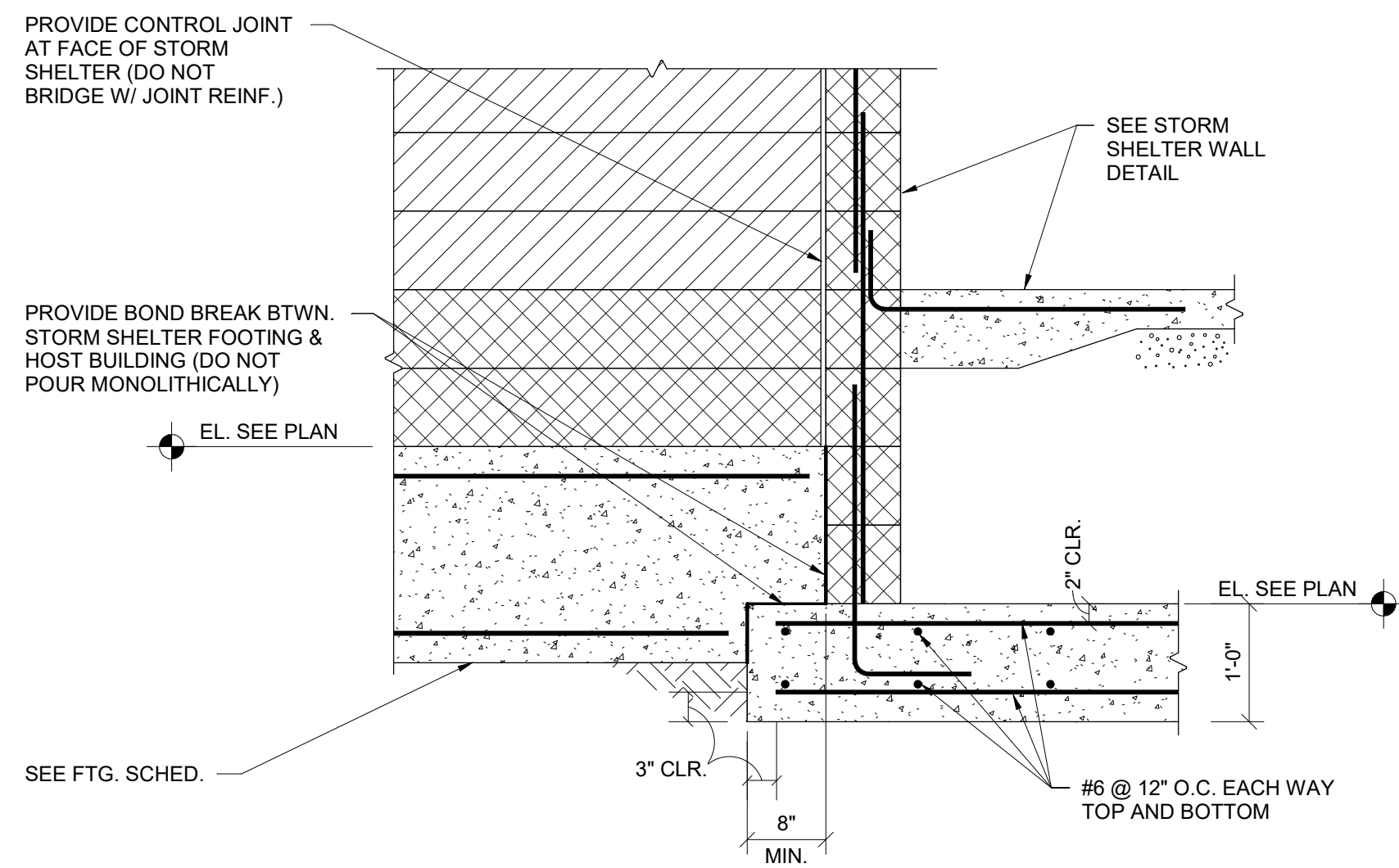
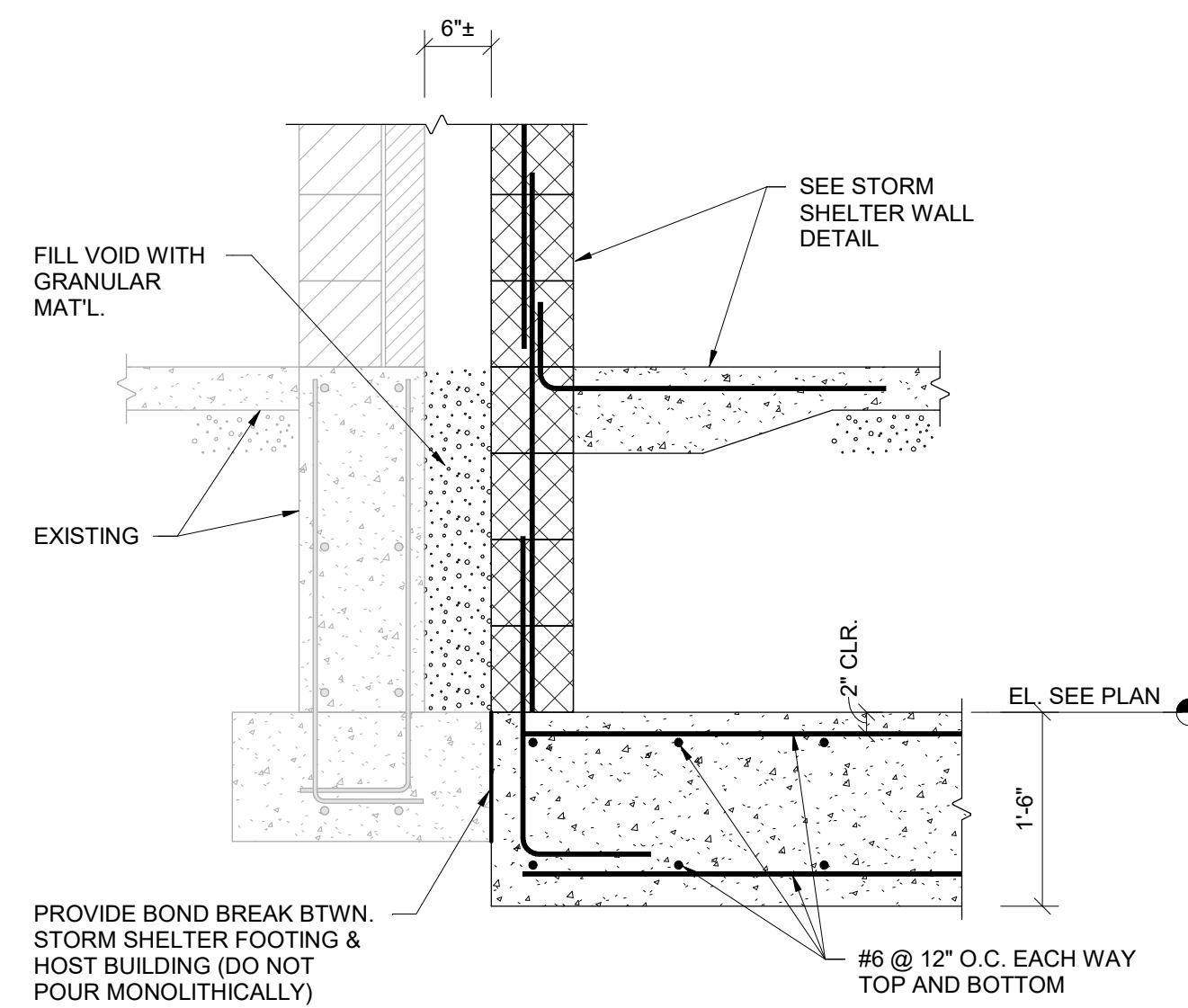
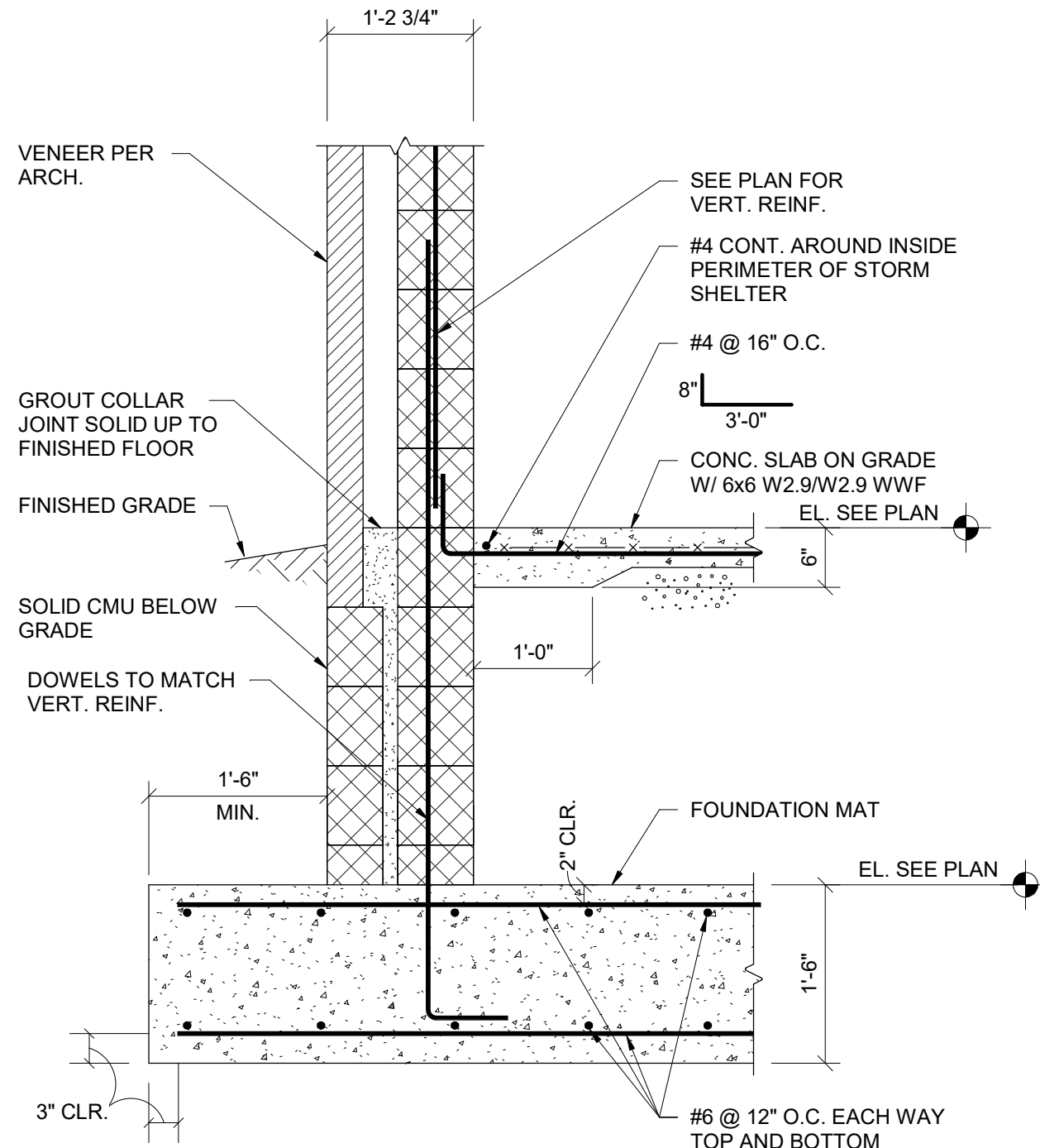
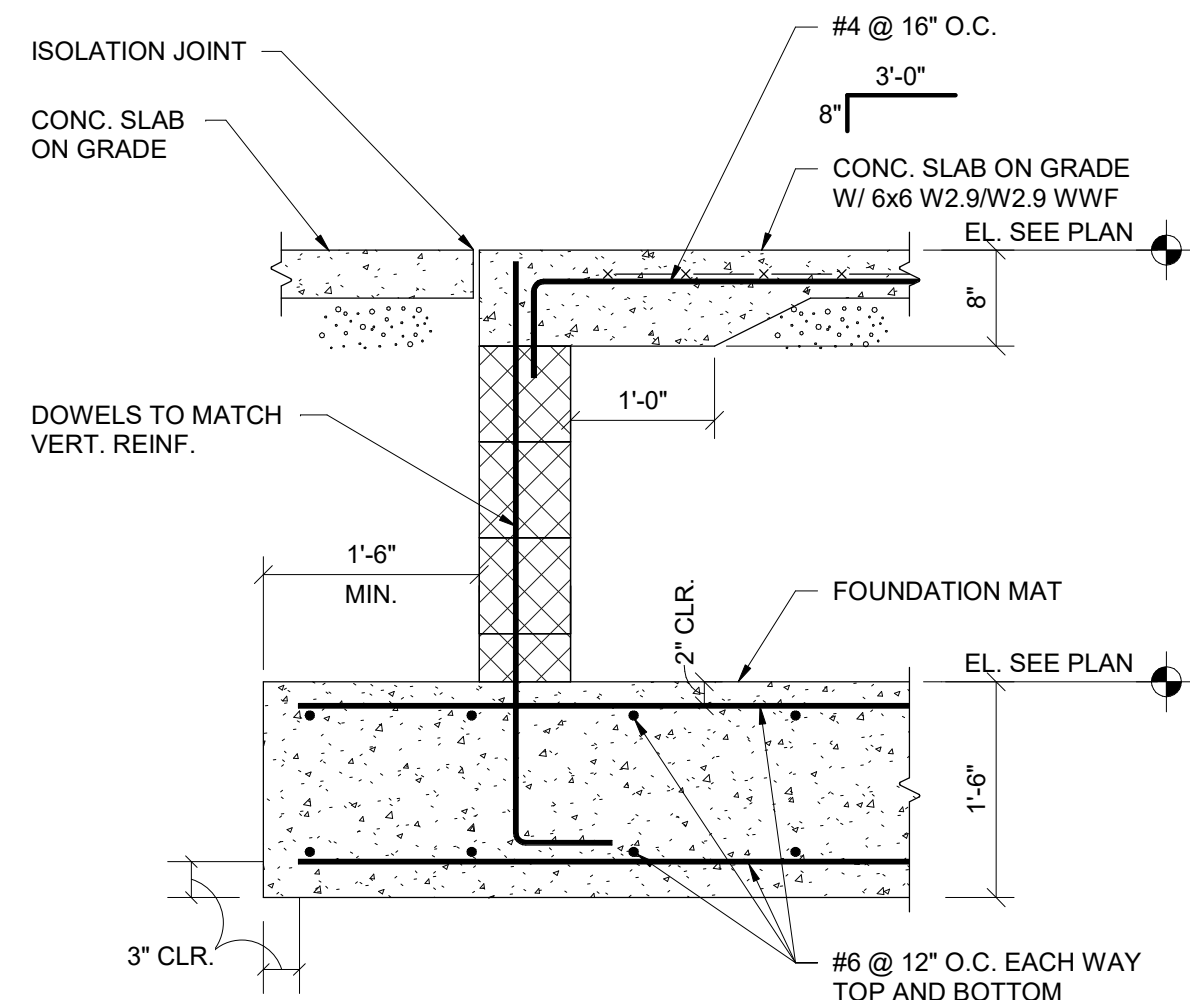
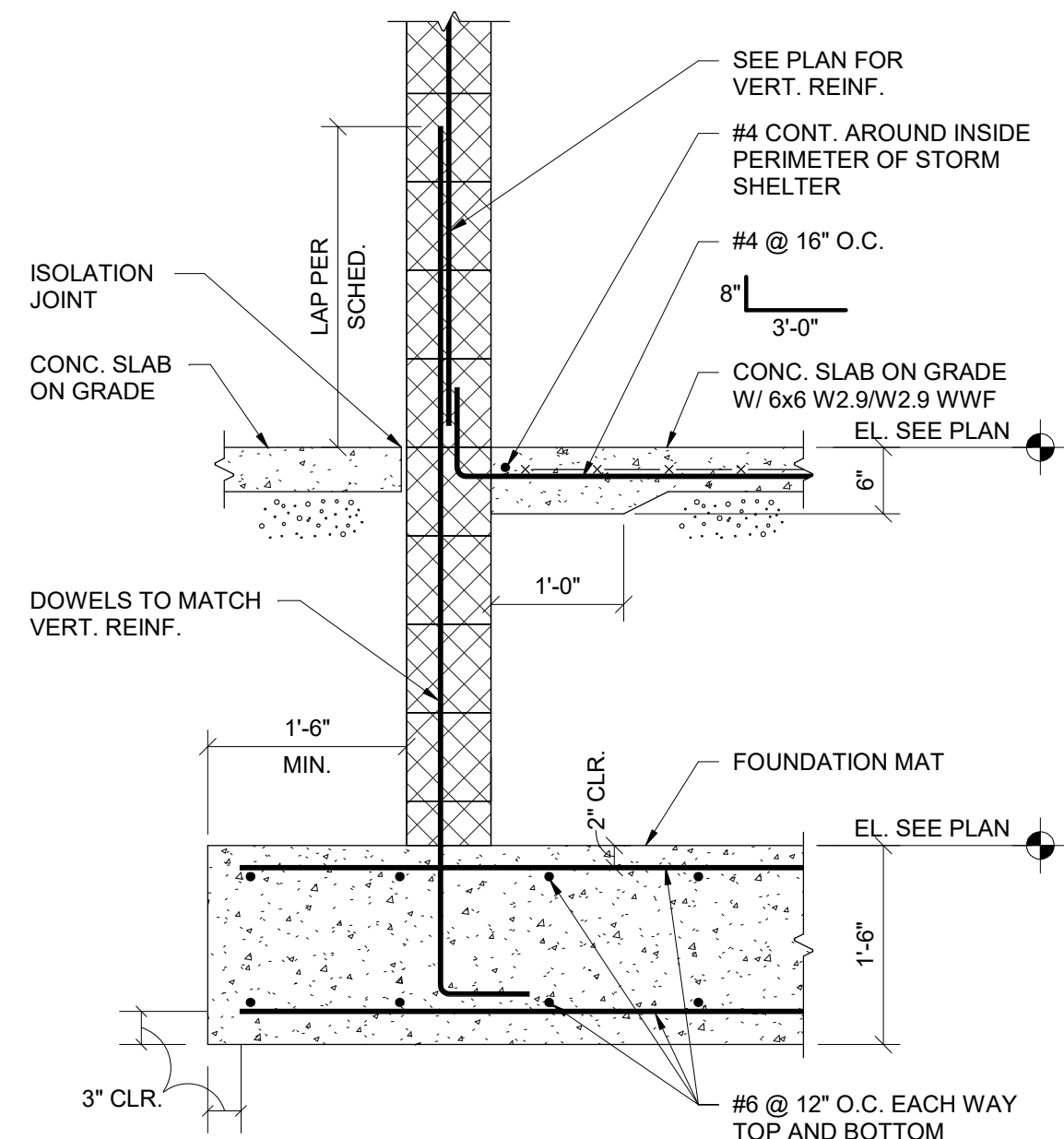
B

C

D

E

F



SCREENWALL SCHEDULE				
MAX. HT.	FTG. WIDTH	FTG. REINF.	WALL REINF.	LAP
8'-0"	2'-6"	(3) #5 CONT.	#5 @ 48" O.C.	1'-7"



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TITLE FOUNDATION DETAILS	

1 | 2 | 3 | 4 | 5 | 6 | 7

A

B

C

D

E

F

A

B

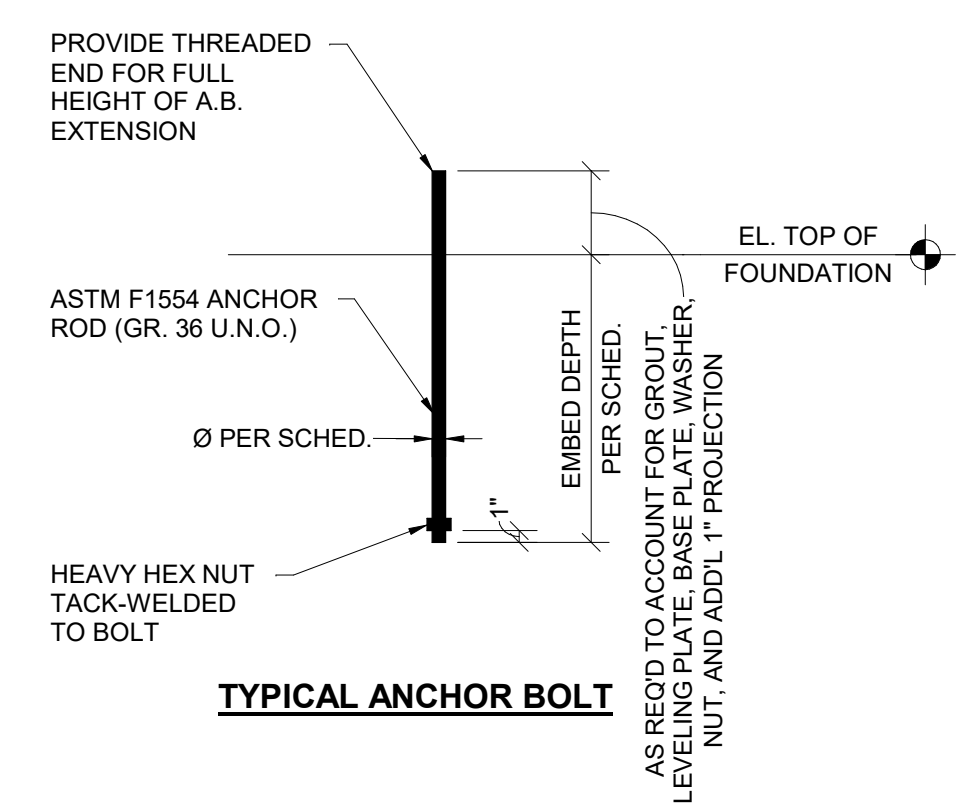
C

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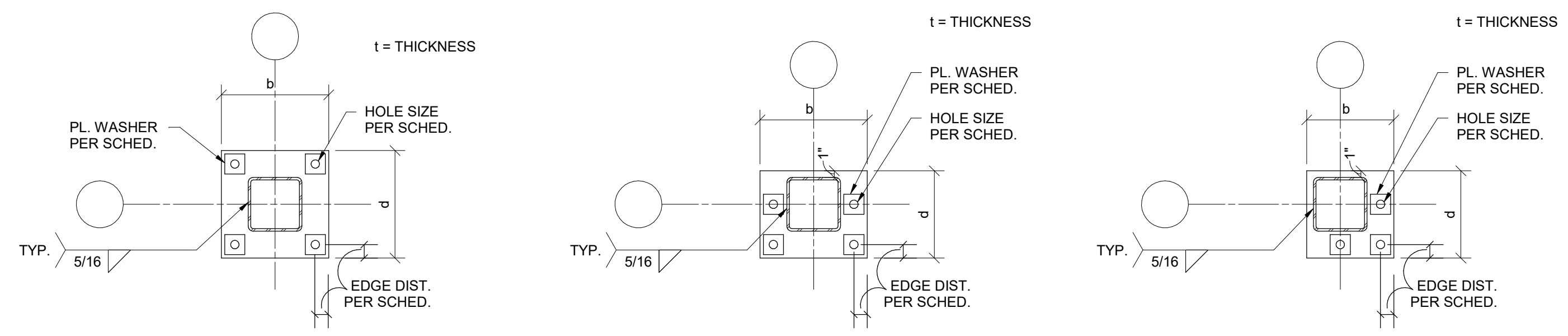
F

ENTRY ROOF						ENTRY ROOF
119'-2"						119'-2"
LOW ROOF						LOW ROOF
111'-6"						111'-6"
FOUNDATION						FOUNDATION
100'-0"						100'-0"
Column Locations	A-1	A-3	B-1	C-2	C-3	
BASE PLATE TYPE	C	C	B	A	B	BASE PLATE TYPE
BASE PLATE SIZE	3/4" x 9" x 9"	3/4" x 9" x 9"	3/4" x 11" x 9"	3/4" x 11" x 11"	3/4" x 11" x 9"	BASE PLATE SIZE
ANCHOR BOLTS SIZE	(3) 3/4"Ø W/ 18" EMBED.	(3) 3/4"Ø W/ 18" EMBED.	(4) 3/4"Ø W/ 18" EMBED.	(4) 3/4"Ø W/ 18" EMBED.	(4) 3/4"Ø W/ 18" EMBED.	ANCHOR BOLTS SIZE

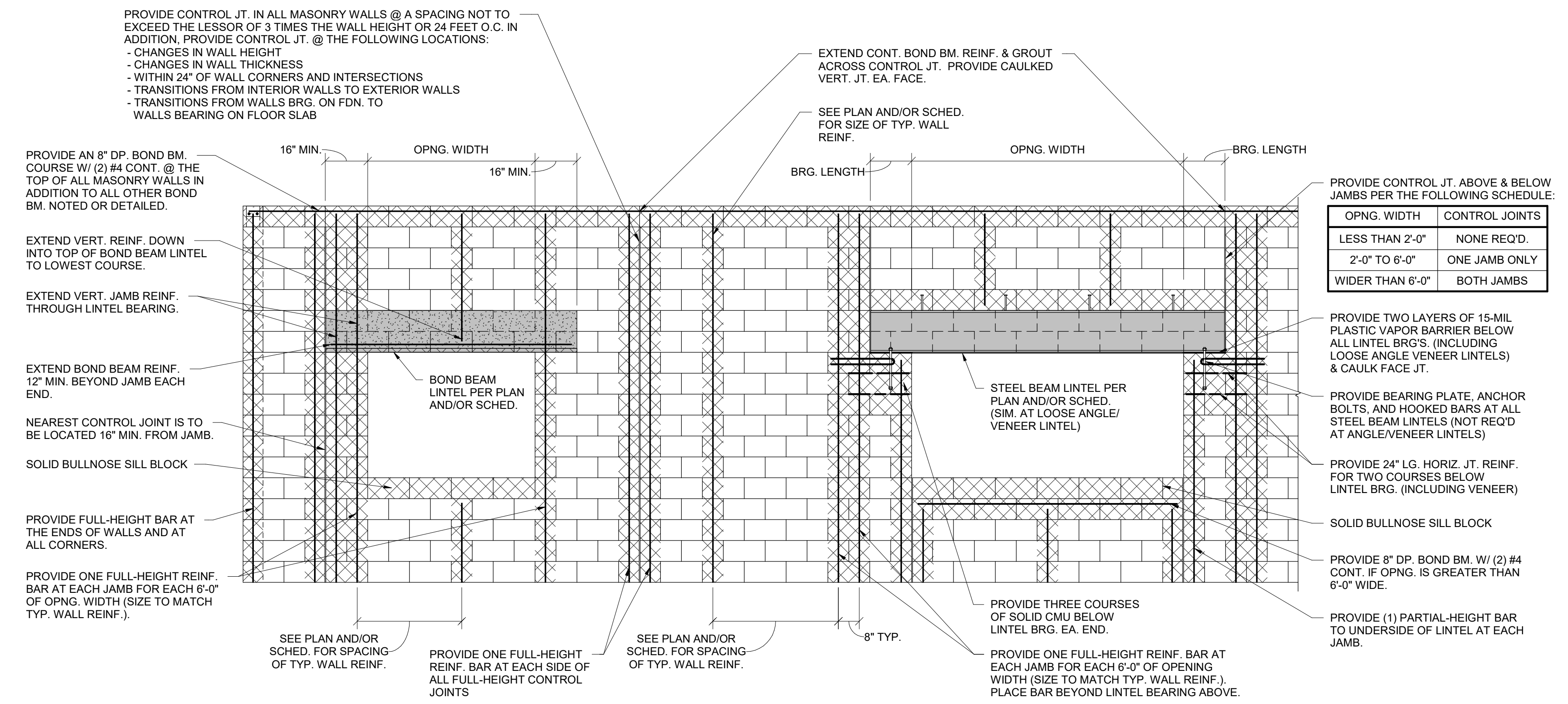


TYPICAL ANCHOR BOLT

BASE PLATE DETAILING SCHEDULE			
BOLT SIZE	BASE PLATE HOLE SIZE	EDGE DISTANCE	PLATE WASHER
3/4"Ø	1-5/16"Ø	1-1/2"	1/4" x 2-1/2" SQ.



BASE PLATE DETAILS



TYPICAL REINFORCED MASONRY WALL CONSTRUCTION

ELEVATION A
3/8" = 1'-0"



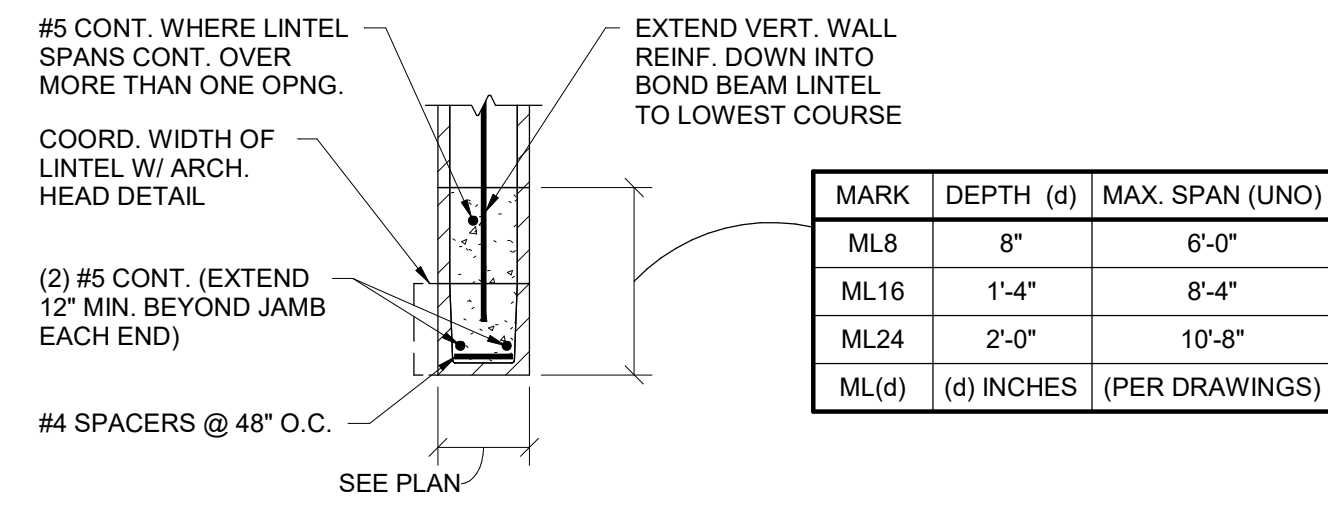
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MASONRY LINTELS

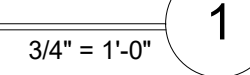


MARK	DEPTH (d)	MAX. SPAN (UNO)
ML8	8"	6'-0"
ML16	1'-4"	8'-4"
ML24	2'-0"	10'-8"
ML(d)	(d) INCHES	(PER DRAWINGS)

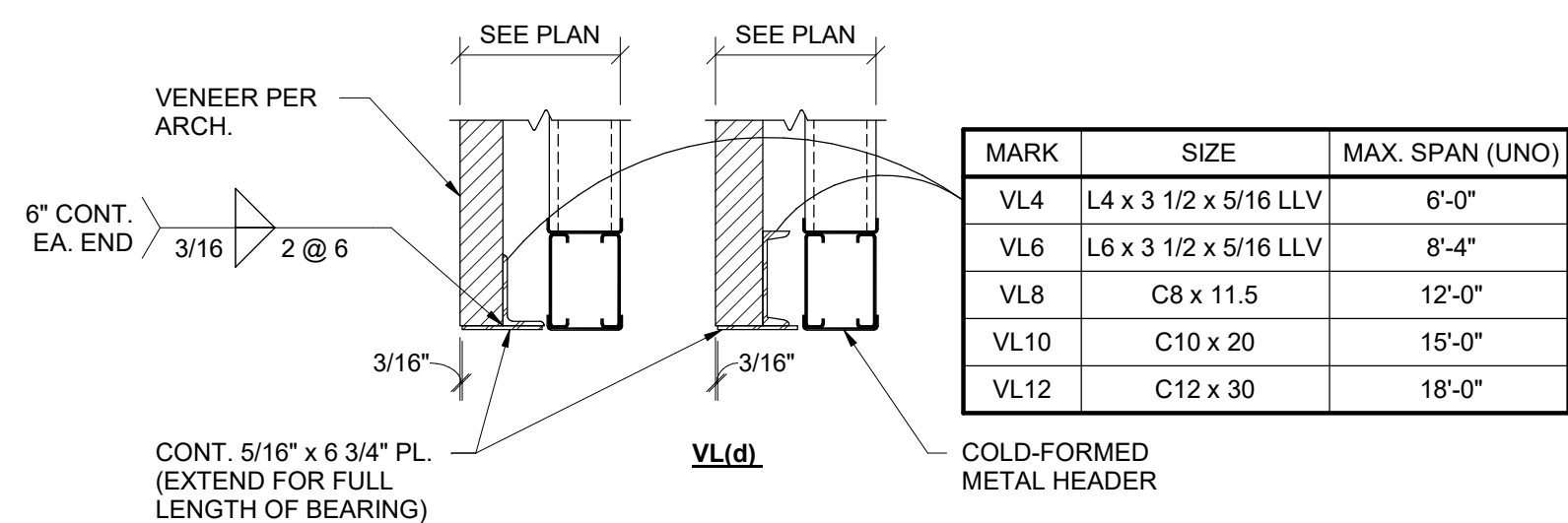
MASONRY LINTEL NOTES

1. FILL IS 2500 PSI (MINIMUM) GROUT. USE FINE GROUT FOR WALLS 6 INCHES AND LESS.
2. FOR TYPE OF CMU AND TYPE OF BOND, SEE SPECIFICATION SECTION 042000.
3. PROVIDE 16" MINIMUM BEARING EACH END. LINTELS SHALL BEAR ON SOLID CMU OR ON 2 FILLED COURSES.
4. MAXIMUM SPANS DO NOT APPLY TO LOAD BEARING WALLS.
5. BOND PATTERN OF LINTEL TO MATCH THAT OF SURROUNDING WALL. PROVIDE SCORED BLOCK AS REQUIRED TO MATCH ADJACENT WALL FINISH. REFER TO INTERIOR FINISH SCHEDULE FOR LOCATIONS.
6. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
7. 14" LINTELS MAY BE MADE-UP OF TWO PIECES IF 14" BOND BEAM UNITS ARE NOT AVAILABLE.

SECTION 1



VENEER LINTELS

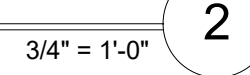


MARK	SIZE	MAX. SPAN (UNO)
VL4	L4 x 3 1/2 x 5/16 LLV	6'-0"
VL6	L6 x 3 1/2 x 5/16 LLV	8'-4"
VL8	C8 x 11.5	12'-0"
VL10	C10 x 20	15'-0"
VL12	C12 x 30	18'-0"

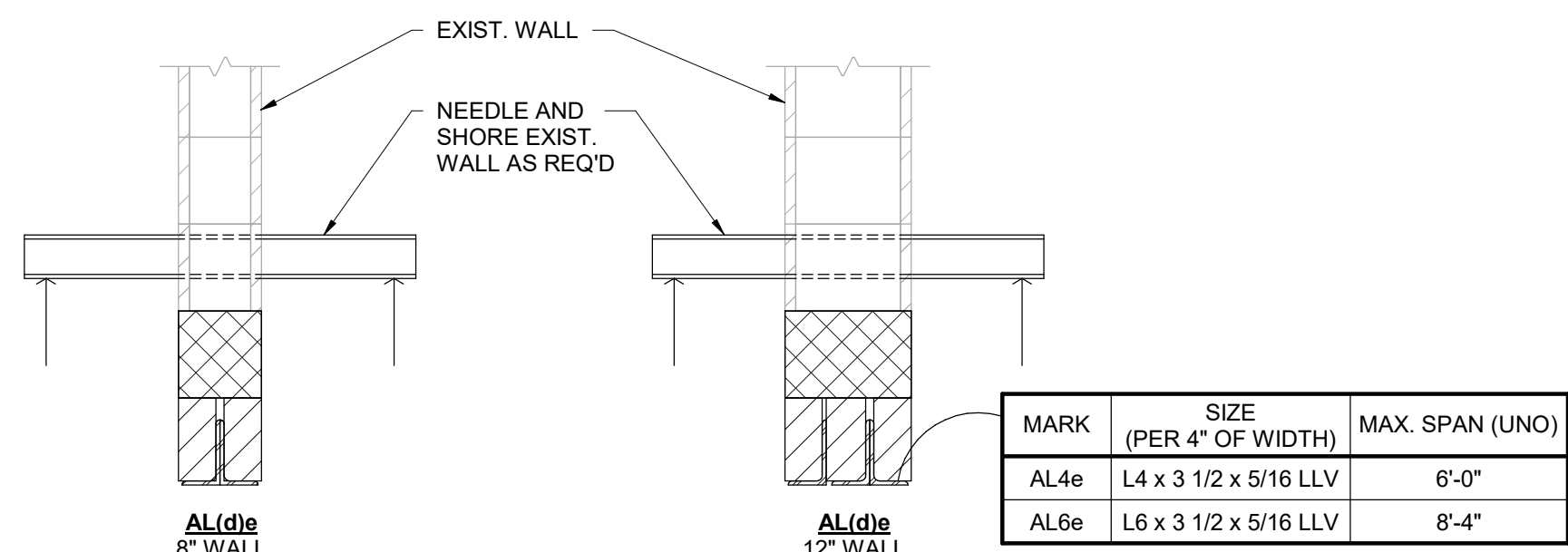
VENEER LINTEL NOTES

1. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
2. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.
3. PROVIDE 6" MINIMUM BEARING EACH END.
4. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

SECTION 2



ANGLE LINTELS IN EXISTING WALLS

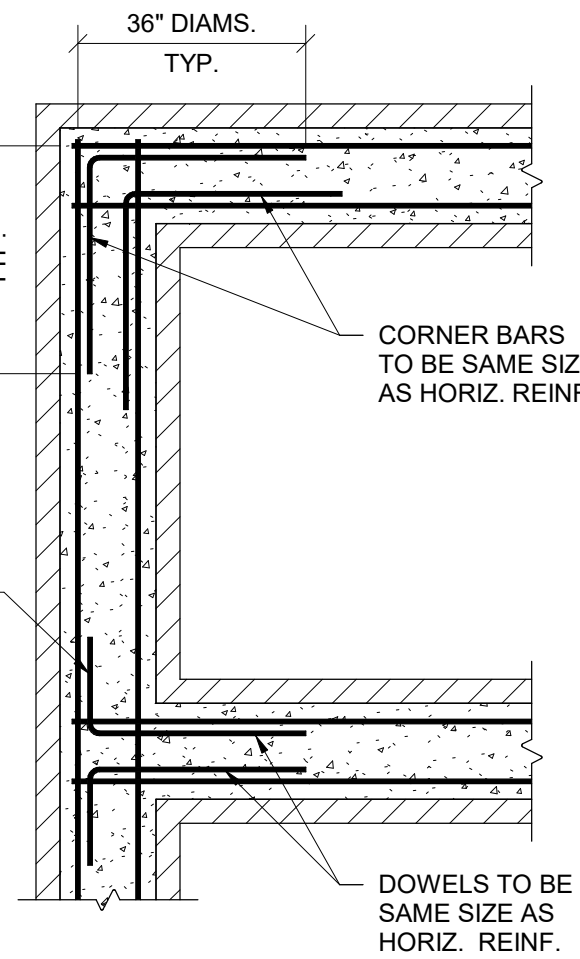
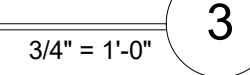


MARK	SIZE (PER 4\"/>	
AL4e	L4 x 3 1/2 x 5/16 LLV	6'-0"
AL6e	L6 x 3 1/2 x 5/16 LLV	8'-4"

DOUBLE-ANGLE LINTEL NOTES

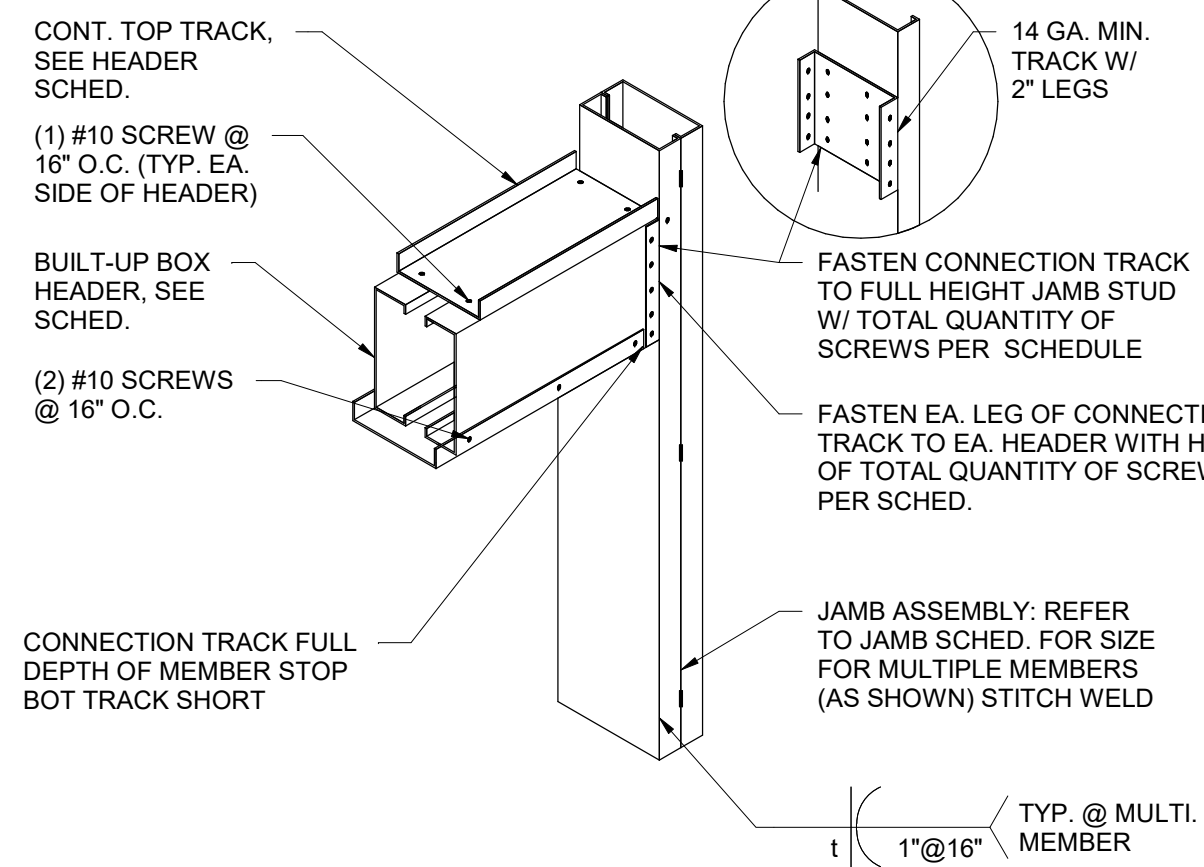
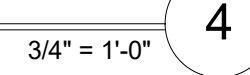
1. LINTELS SHALL BEAR ON SOLID MASONRY OR ON TWO CMU COURSES FULLY GROUTED
2. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
3. PROVIDE 6" MINIMUM BEARING EACH END.
4. MAXIMUM SPANS DO NOT APPLY TO LOADBEARING WALLS.
5. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

SECTION 3



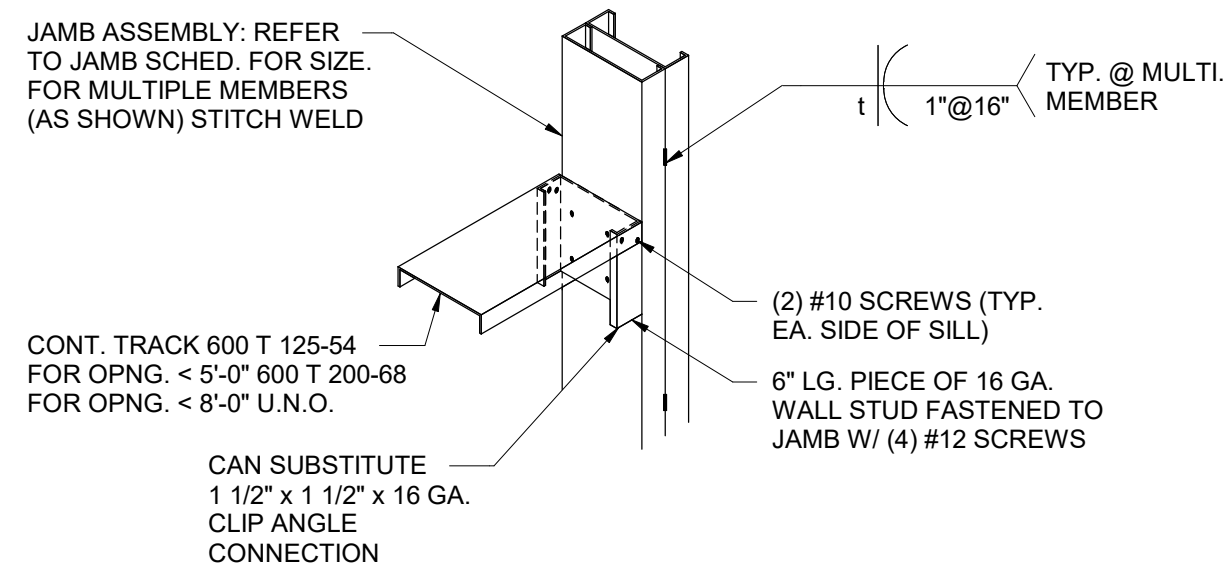
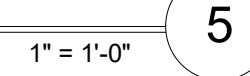
TYPICAL CORNER BARS FOR MASONRY BOND BEAMS

SECTION 4



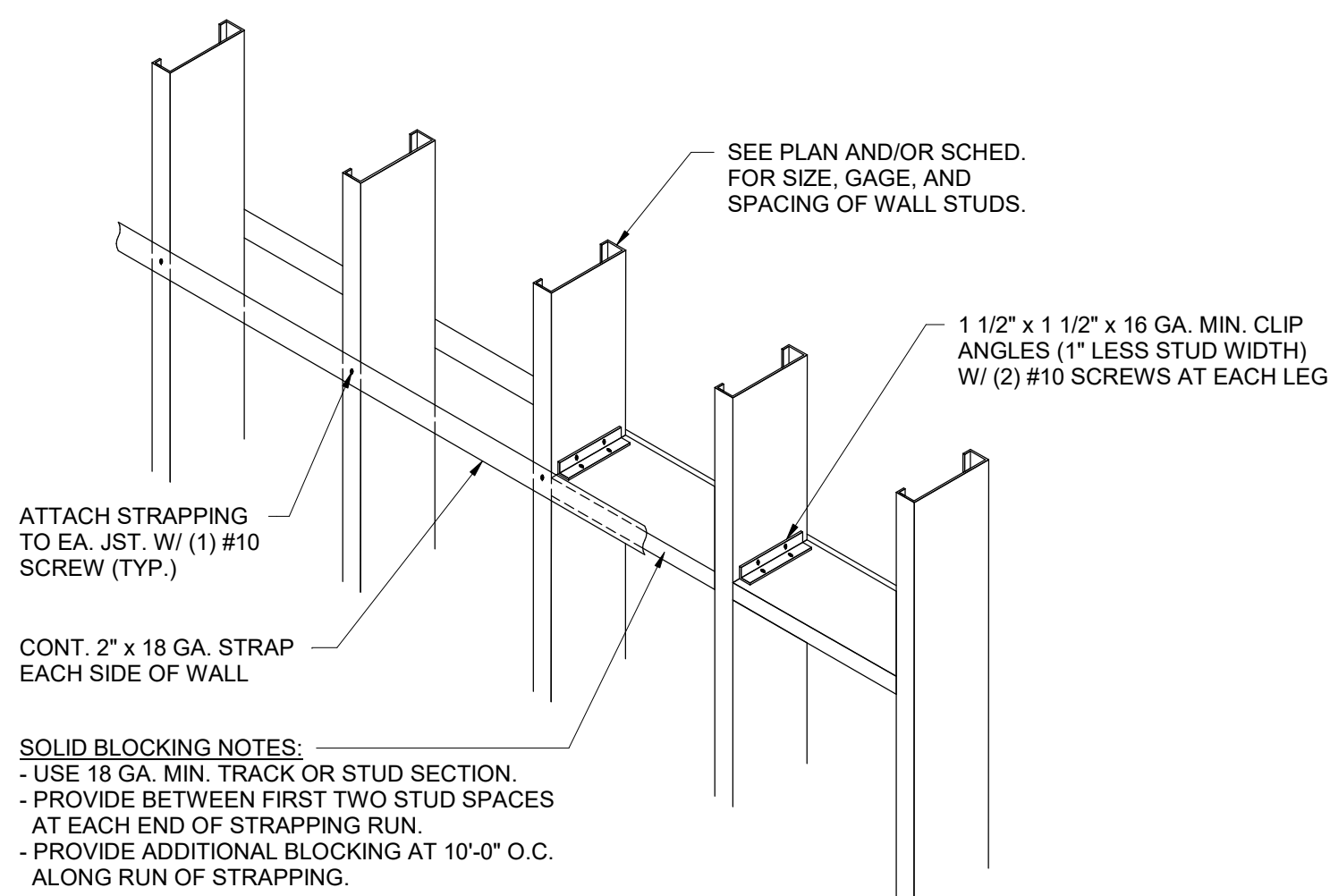
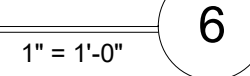
TYPICAL BOX HEADER CONNECTION

SECTION 5



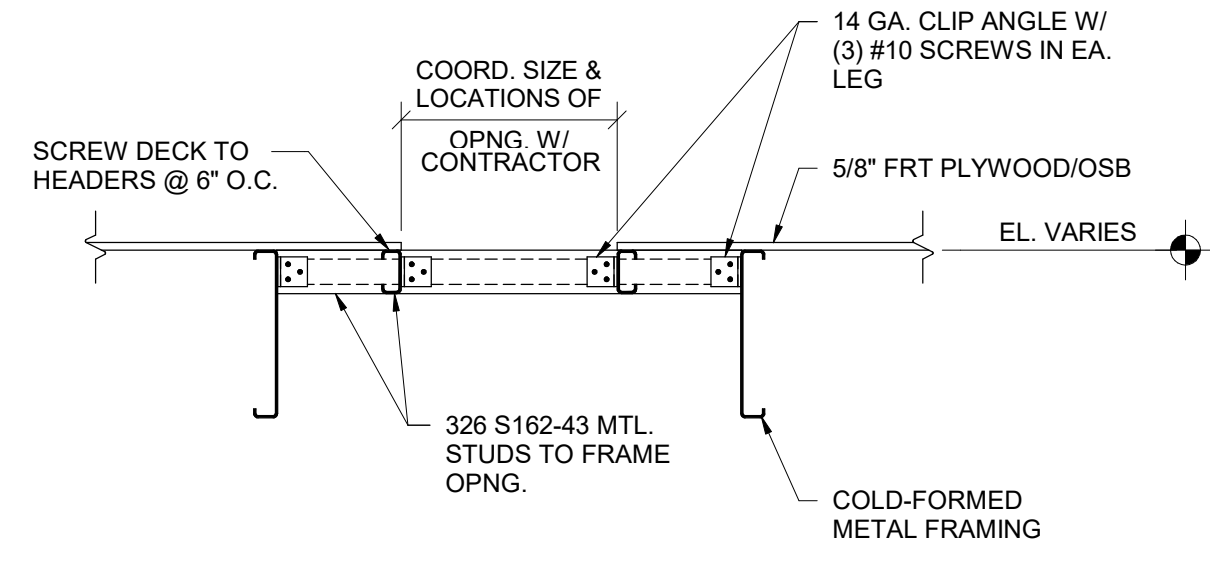
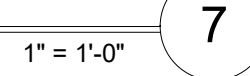
TYPICAL SILL CONNECTION

SECTION 6



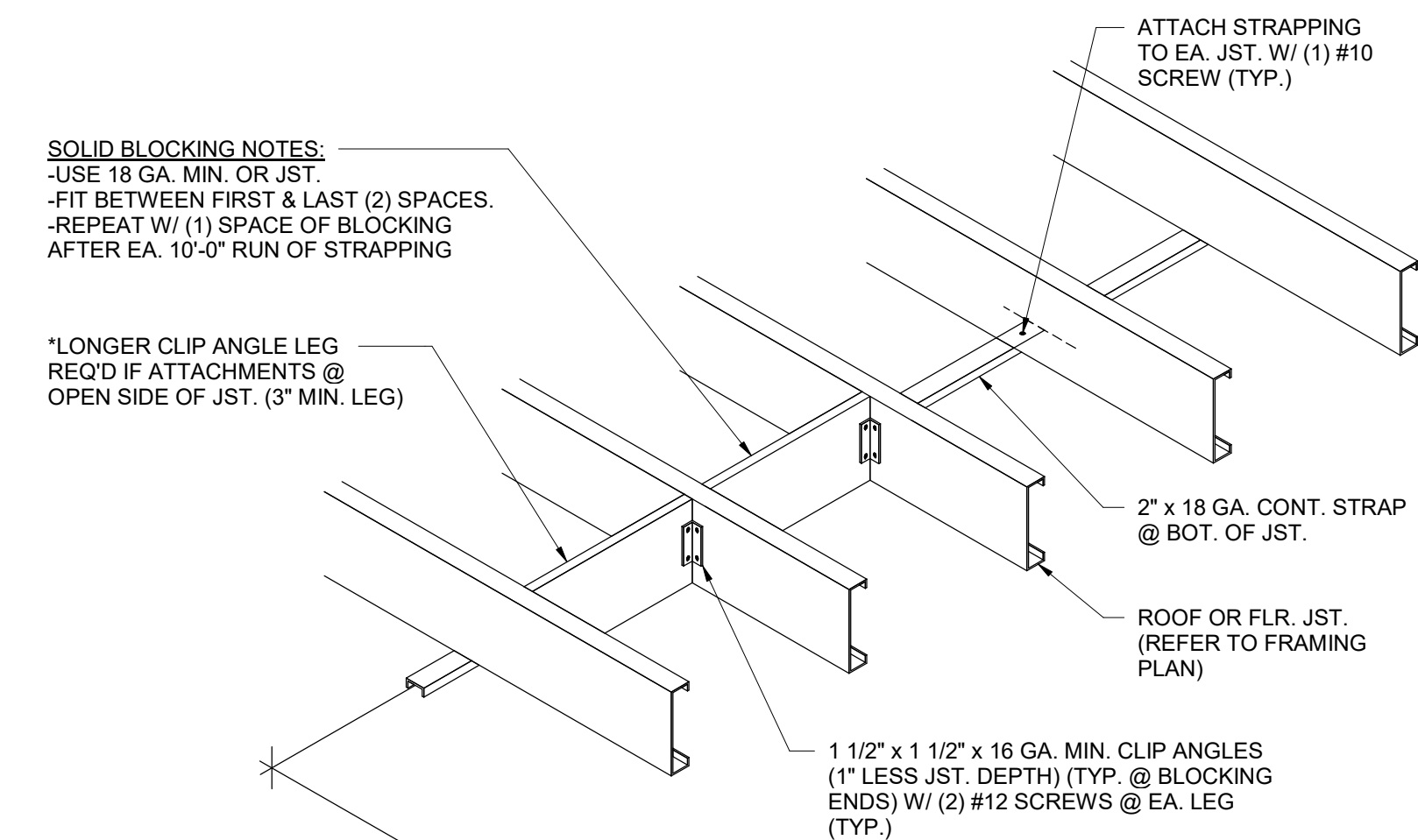
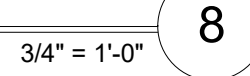
TYPICAL STUD BRIDGING/BLOCKING (REQUIRED AT ALL HORIZ. SHEARWALL PANEL EDGES)

SECTION 7



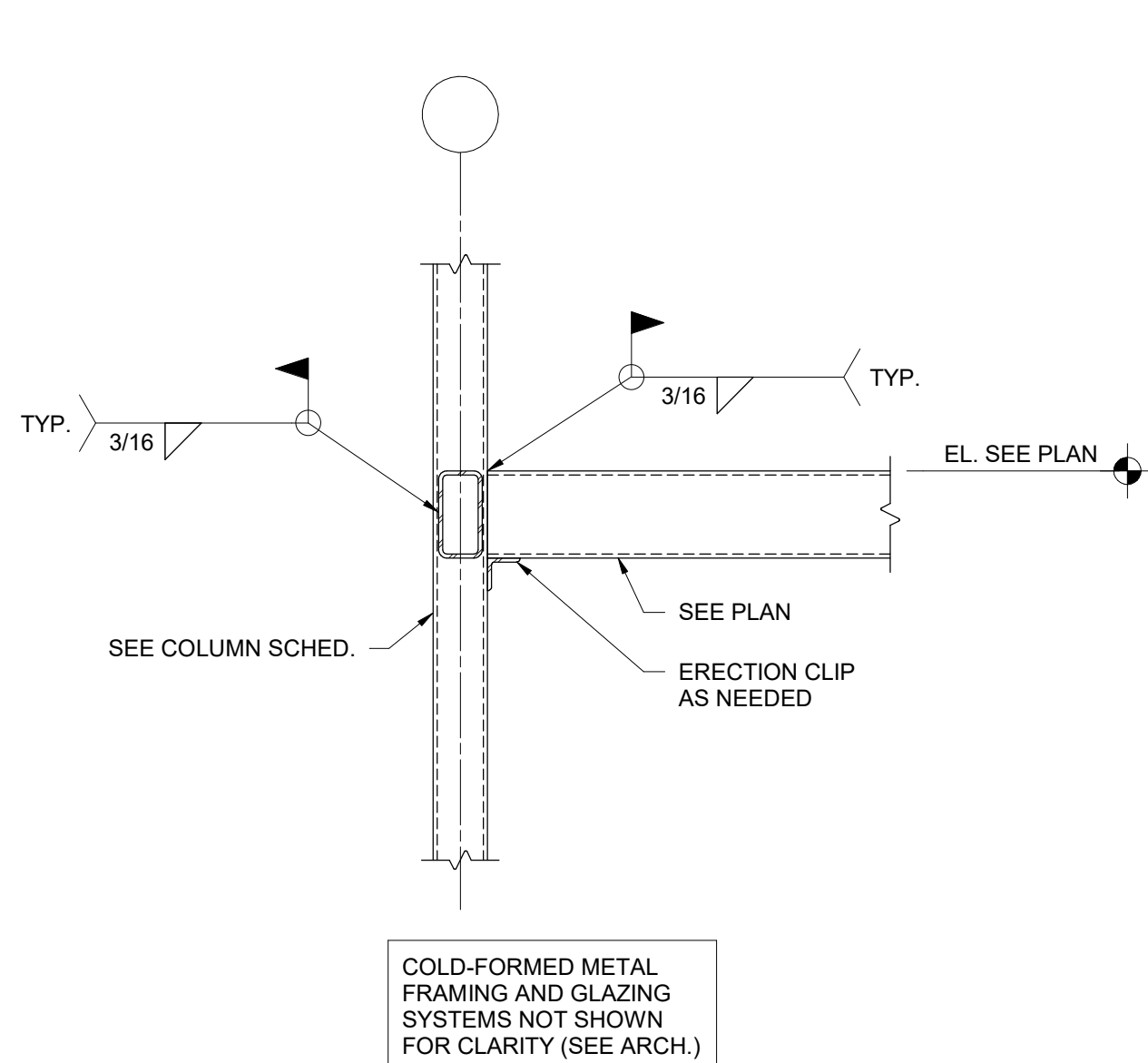
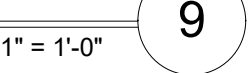
TYPICAL ROOF OPENING BETWEEN COLD-FORMED METAL FRAMING

SECTION 8



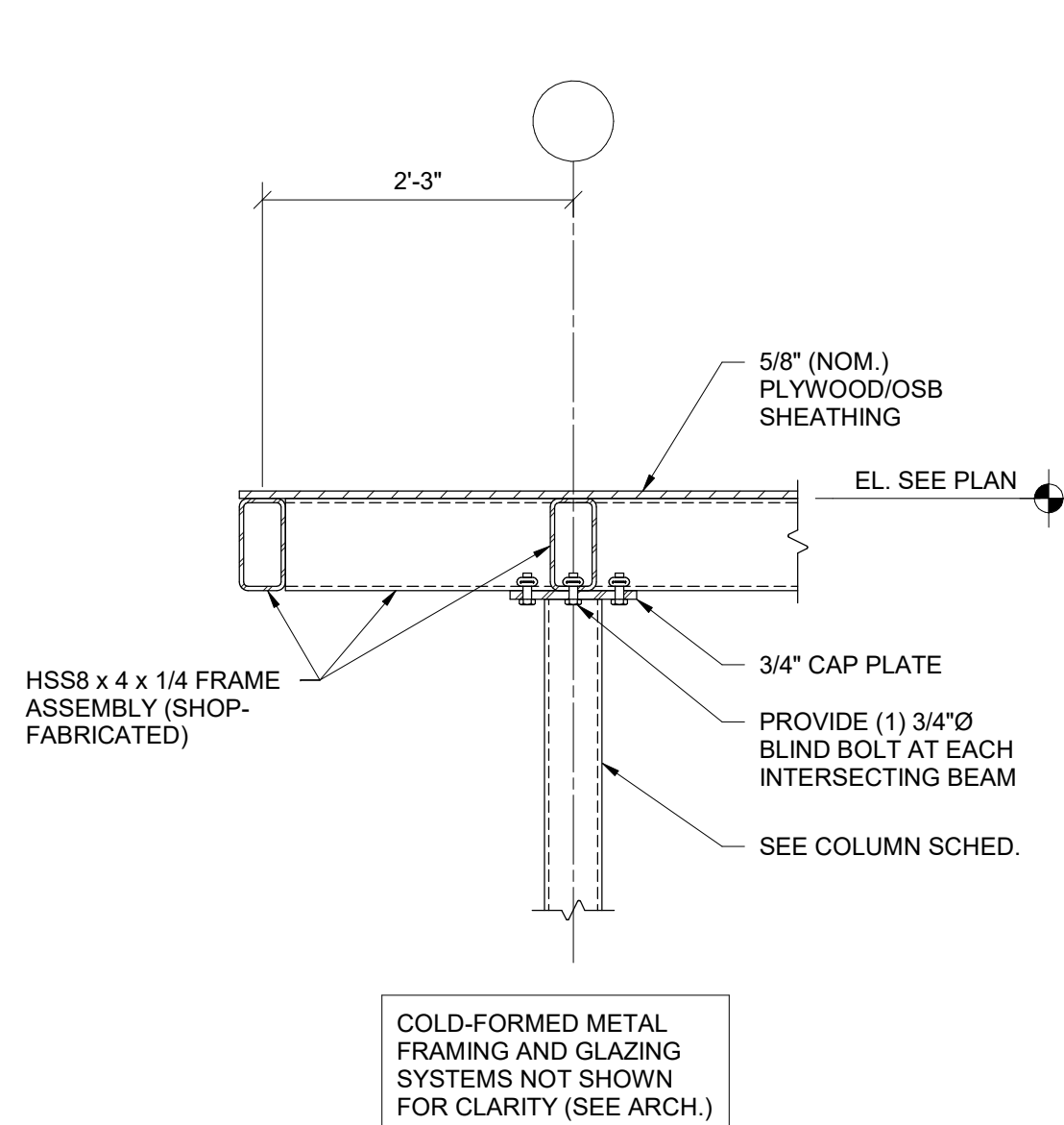
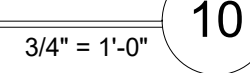
TYPICAL JOIST BLOCKING DETAIL 3D (REQUIRED @ ALL FLOOR & ROOF JOIST THROUGHOUT)

SECTION 9



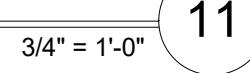
COLD-FORMED METAL FRAMING AND GLAZING SYSTEMS NOT SHOWN FOR CLARITY (SEE ARCH.)

SECTION 10



COLD-FORMED METAL FRAMING AND GLAZING SYSTEMS NOT SHOWN FOR CLARITY (SEE ARCH.)

SECTION 11



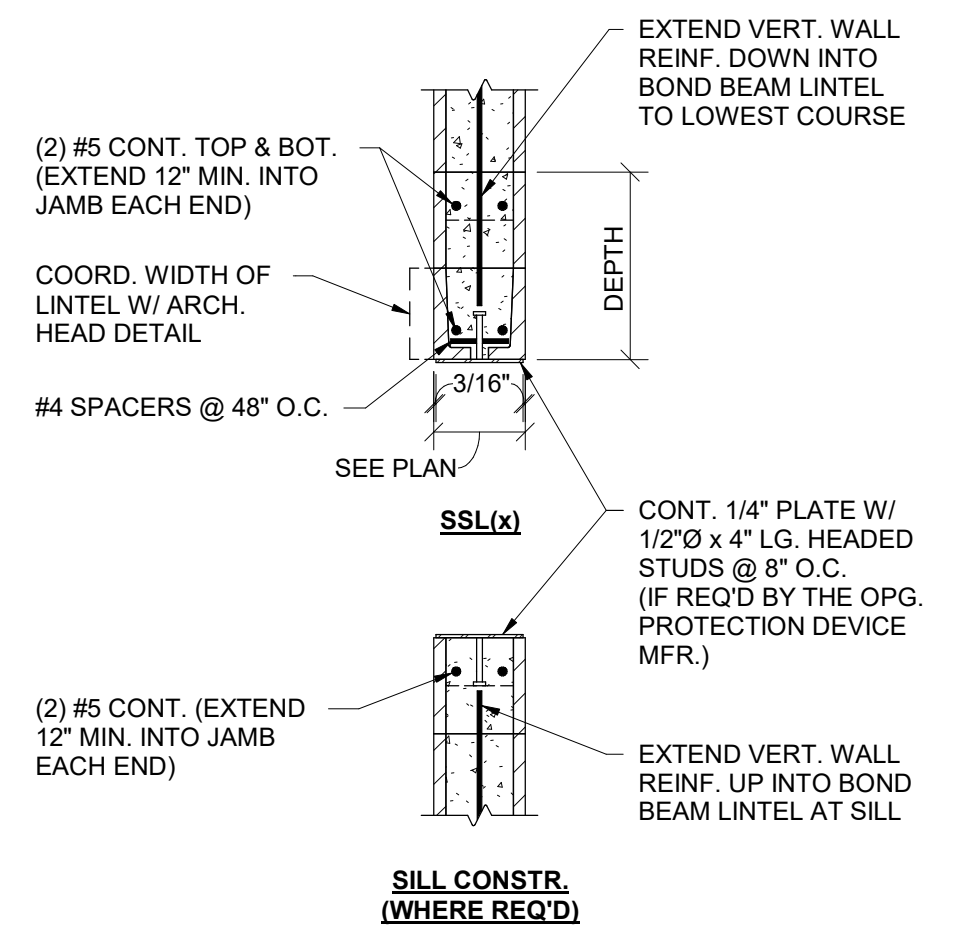
NO.	DATE	DESCRIPTION
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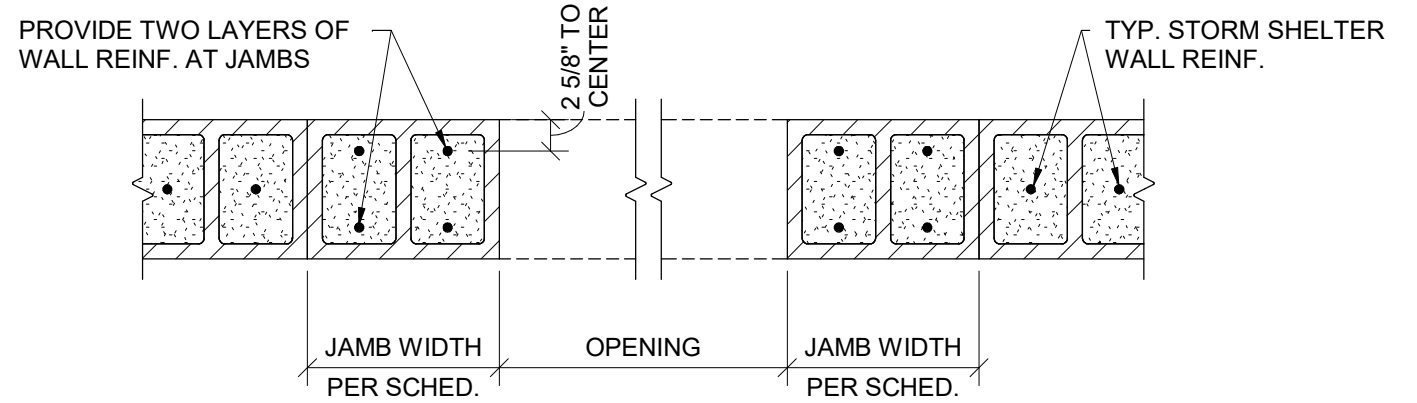
STORM SHELTER LINTELS



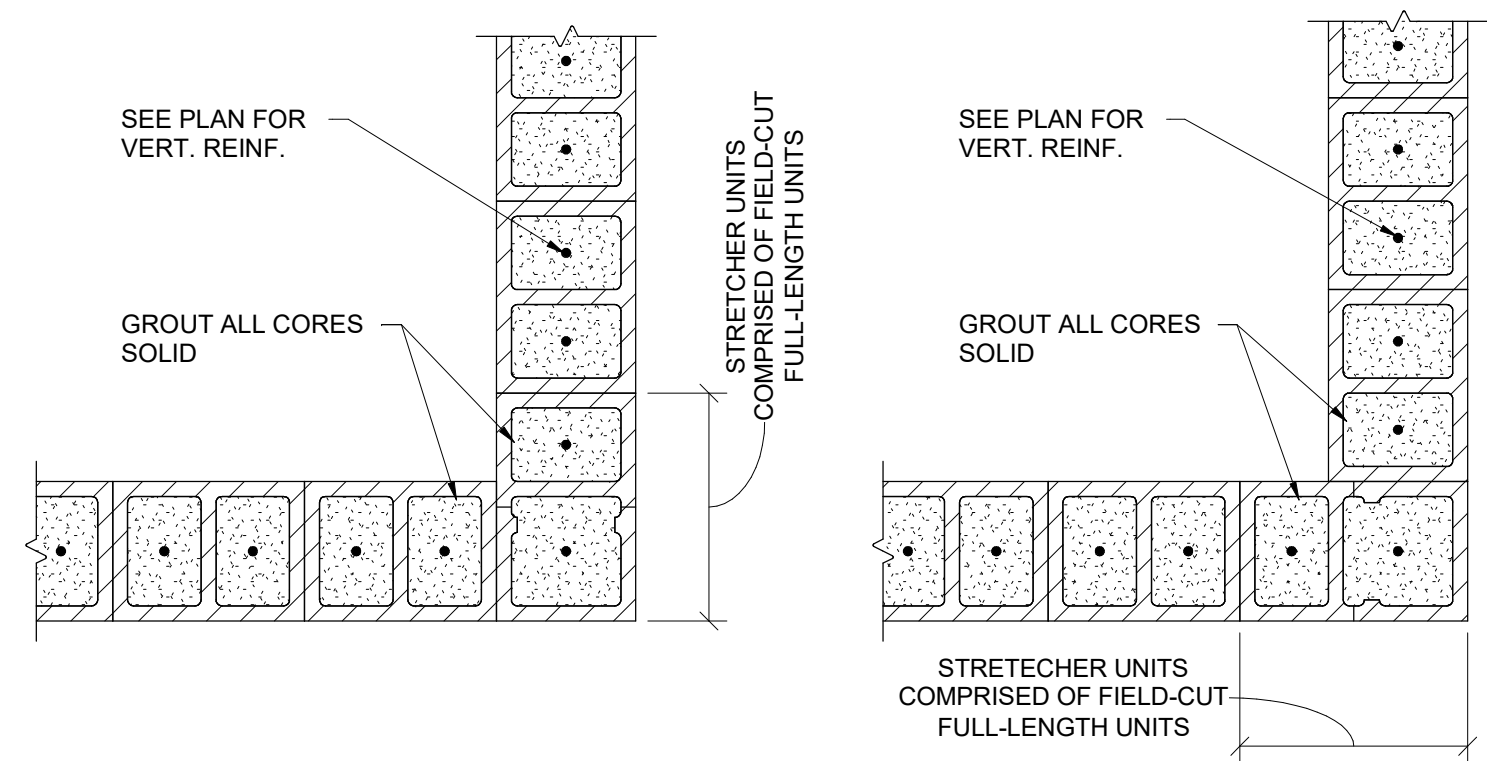
MARK	DEPTH (d)	JAMB WIDTH
SSL1	8"	8"
SSL2	1'-4"	1'-4"
SSL3	2'-0"	2'-0"

STORM SHELTER LINTEL NOTES

1. FILL IS 2500 PSI (MINIMUM) GROUT. USE FINE GROUT FOR WALLS 6 INCHES AND LESS.
2. FOR TYPE OF CMU AND TYPE OF BOND, SEE SPECIFICATION SECTION 042000.
3. PROVIDE 16" MINIMUM BEARING EACH END. LINTELS SHALL BEAR ON SOLID CMU OR ON 2 FILLED COURSES.
4. MAXIMUM SPANS DO NOT APPLY TO LOAD BEARING WALLS.
5. BOND PATTERN OF LINTEL TO MATCH THAT OF SURROUNDING WALL. PROVIDE SCORED BLOCK AS REQUIRED TO MATCH ADJACENT WALL FINISH. REFER TO INTERIOR FINISH SCHEDULE FOR LOCATIONS.
6. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
7. 14" LINTELS MAY BE MADE-UP OF TWO PIECES IF 14" BOND BEAM UNITS ARE NOT AVAILABLE.



TYPICAL STORM SHELTER OPENING JAMB CONSTRUCTION

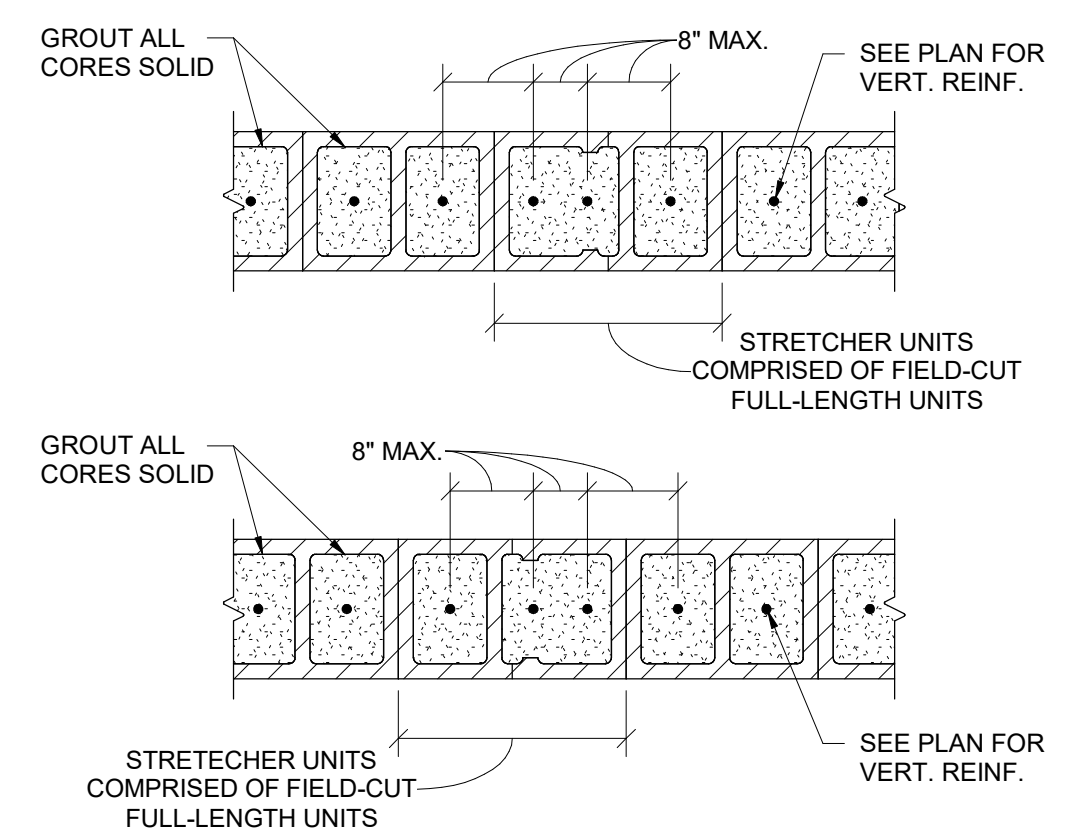


TYPICAL STORM SHELTER CORNER CONSTRUCTION

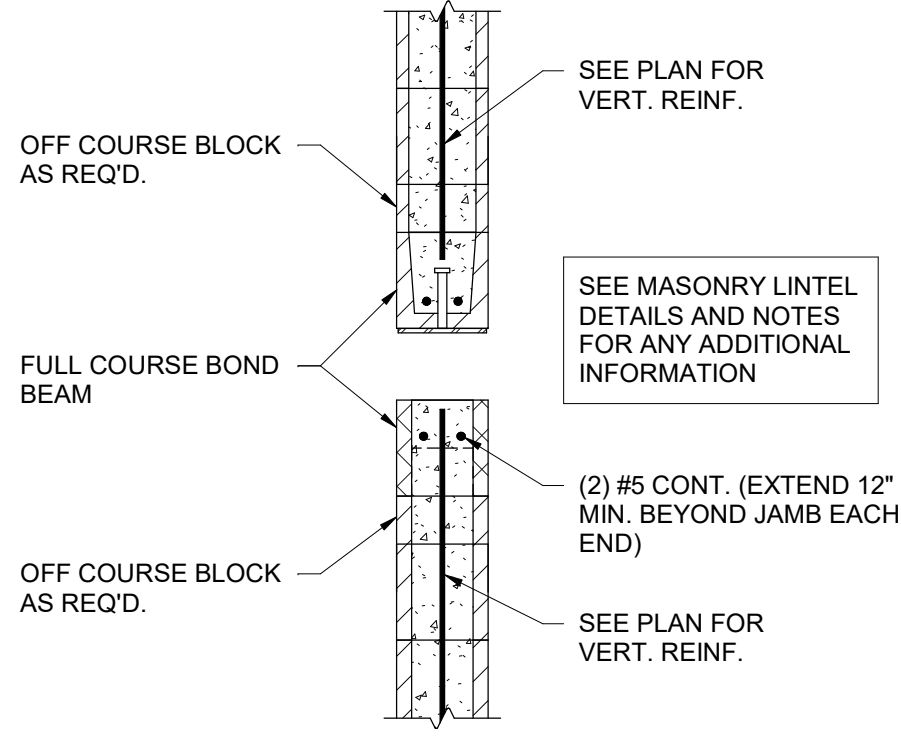
SECTION 1
3/4" = 1'-0"

SECTION 2
3/4" = 1'-0"

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



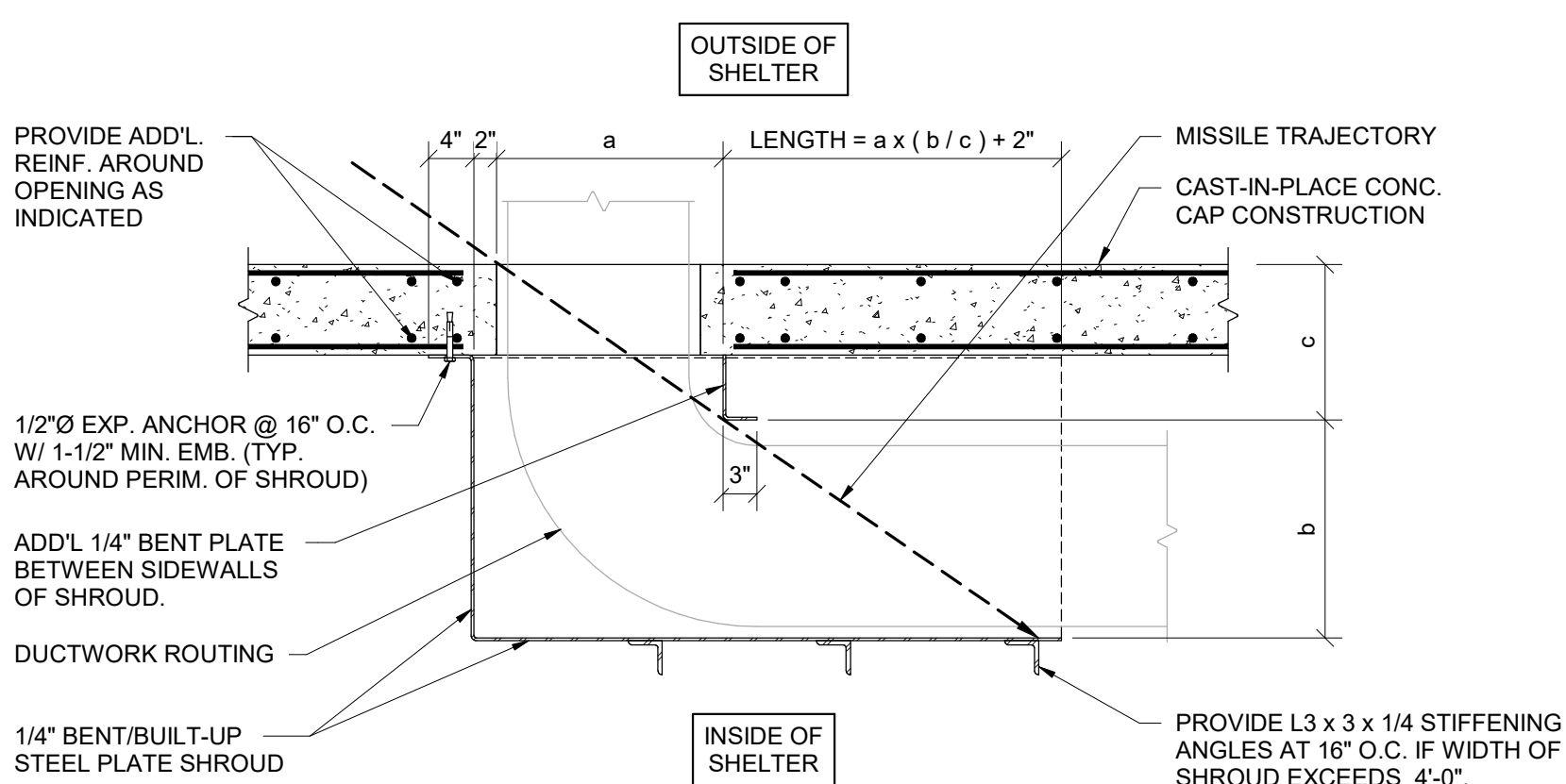
TYPICAL STORM SHELTER STRETCHER CONSTRUCTION



TYPICAL STORM SHELTER OFF COURSING LINTEL AND SILL CONSTRUCTION

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

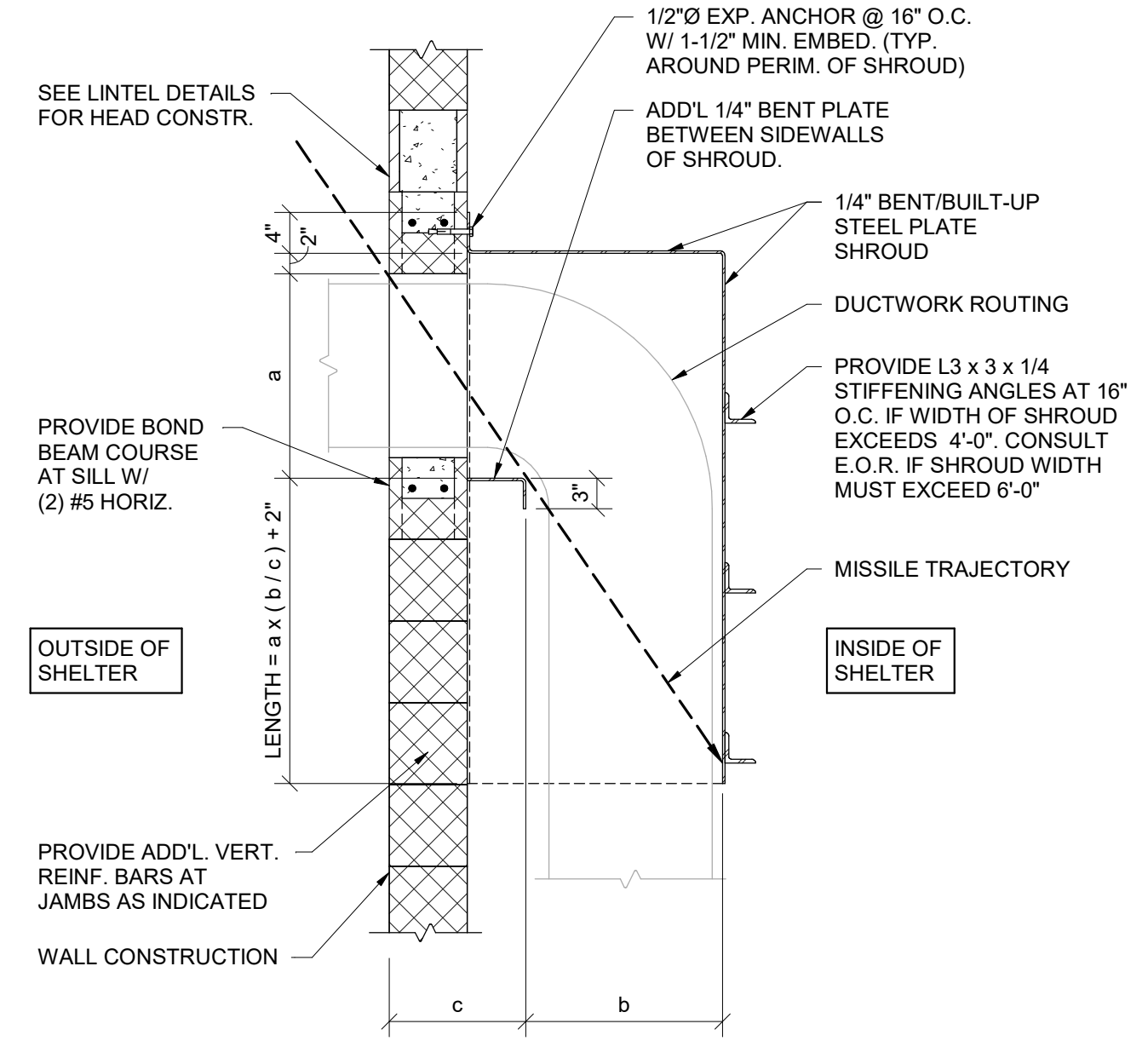
SECTION 5
3/4" = 1'-0"



STORM SHELTER ROOF OPENING PLATE SHROUD

- NOTES:
1. PLATE SHROUDS ARE REQUIRED FOR ALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER
 2. SHROUD MAY BE ORIENTED IN ANY DIRECTION
 3. CONSULT ENGINEER OF RECORD IF SHROUD DIMENSIONS MUST DEVIATE FROM THOSE INDICATED

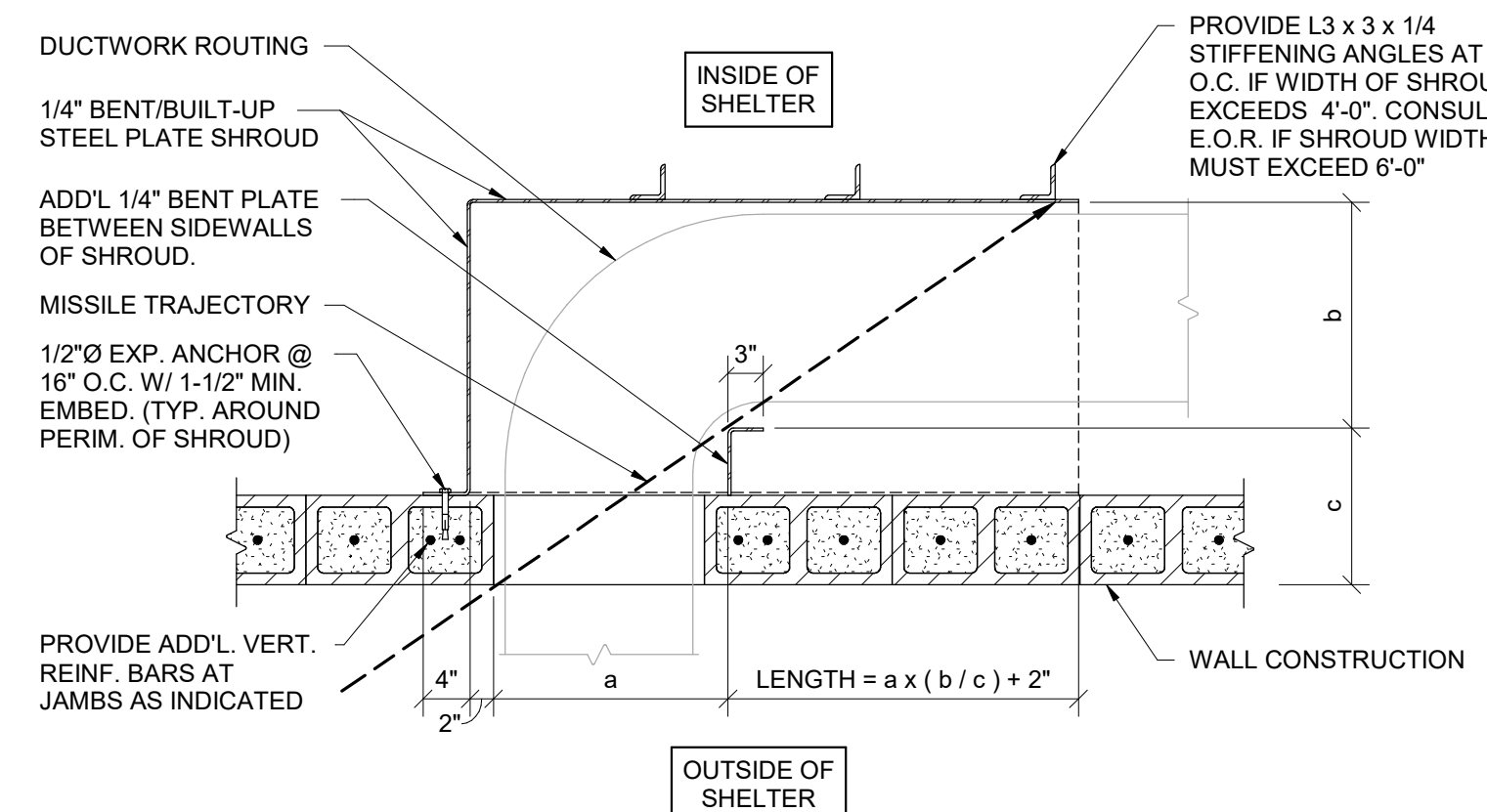
SECTION 6
3/4" = 1'-0"



STORM SHELTER WALL OPENING PLATE SHROUD (VERTICAL WALL SECTION)

- NOTES:
1. PLATE SHROUDS ARE REQUIRED FOR ALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER
 2. SHROUD MAY BE ORIENTED EITHER UP OR DOWN
 3. CONSULT ENGINEER OF RECORD IF SHROUD DIMENSIONS MUST DEVIATE FROM THOSE INDICATED

SECTION 7
3/4" = 1'-0"



STORM SHELTER WALL OPENING PLATE SHROUD (HORIZONTAL PLAN DETAIL)

- NOTES:
1. PLATE SHROUDS ARE REQUIRED FOR ALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER
 2. SHROUD MAY BE ORIENTED IN ANY DIRECTION
 3. CONSULT ENGINEER OF RECORD IF SHROUD DIMENSIONS MUST DEVIATE FROM THOSE INDICATED

SECTION 8
3/4" = 1'-0"



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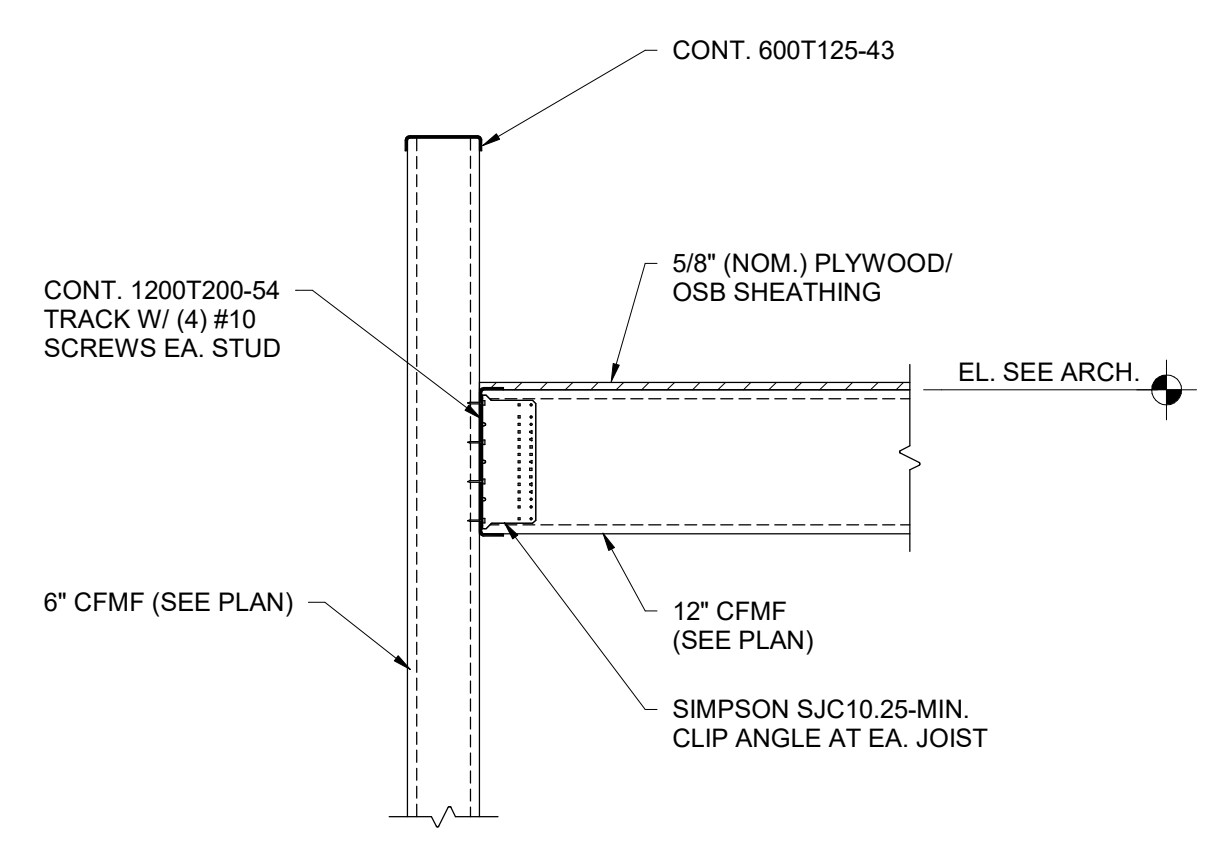
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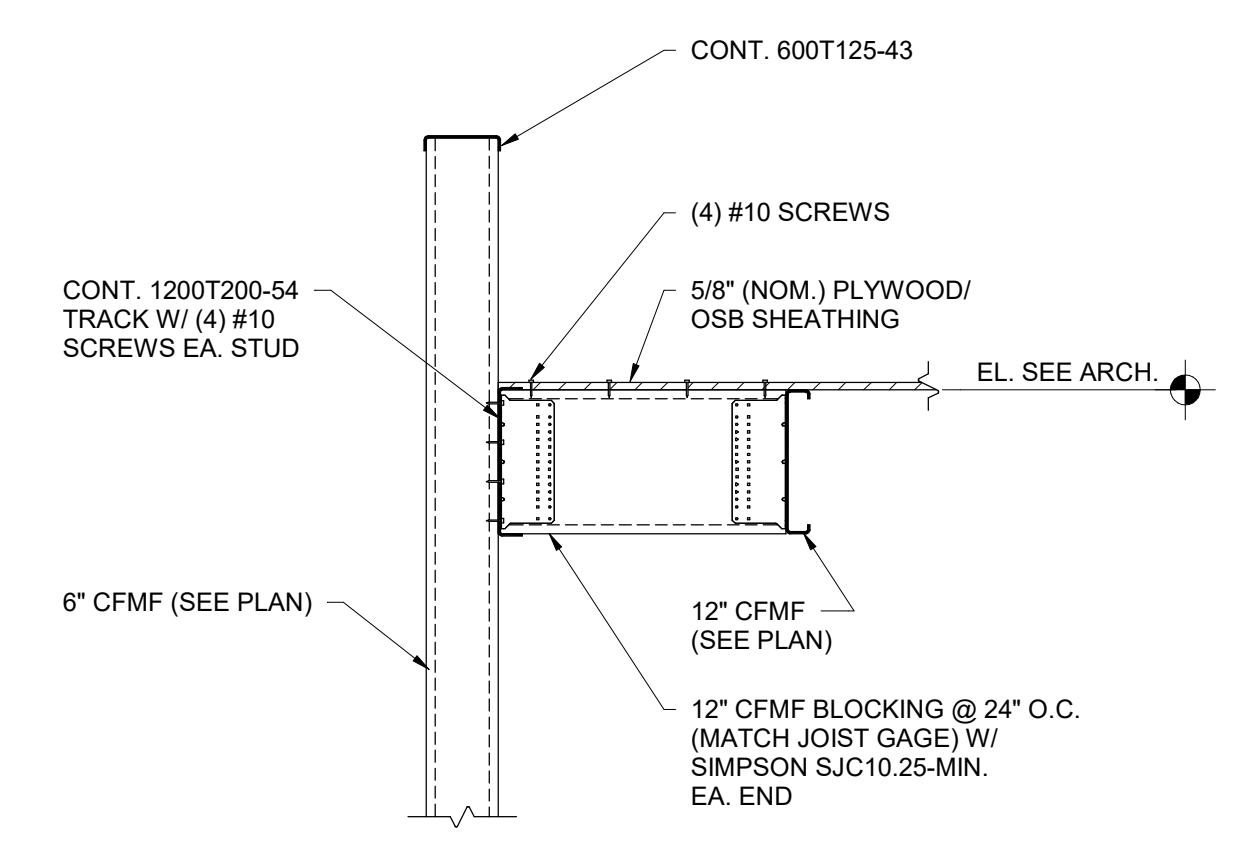
SHEET NO.
S4.3

1 | 2 | 3 | 4 | 5 | 6 | 7

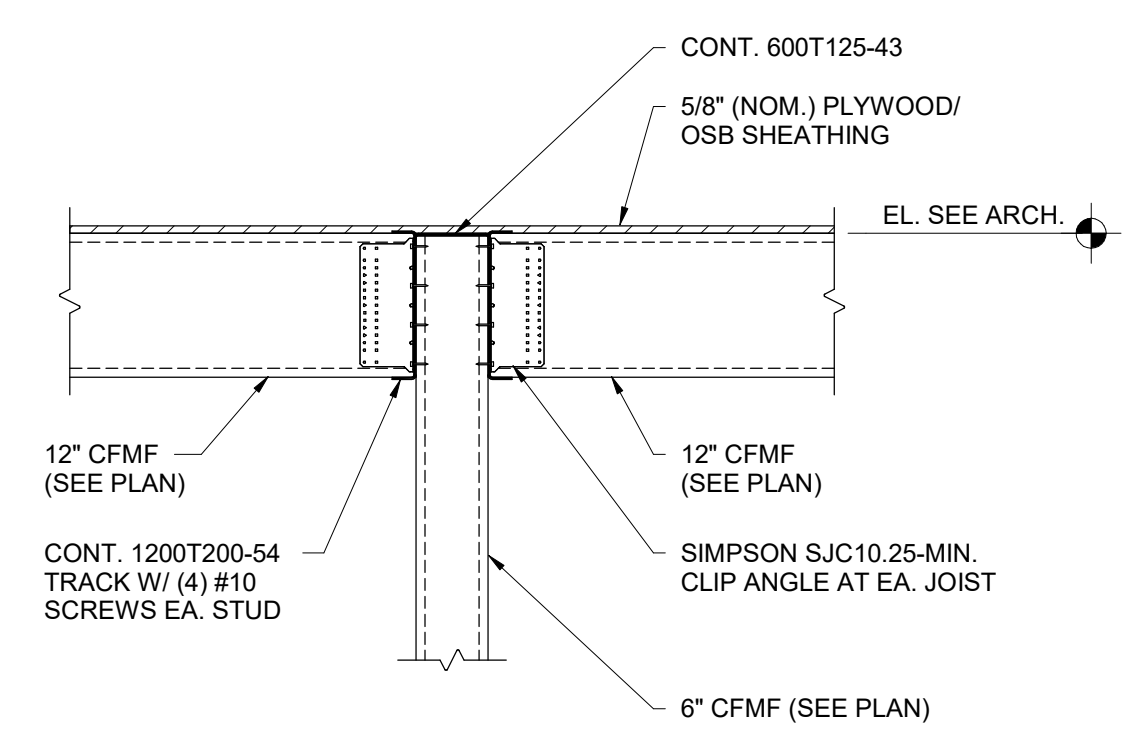
A
B
C
D
E
F



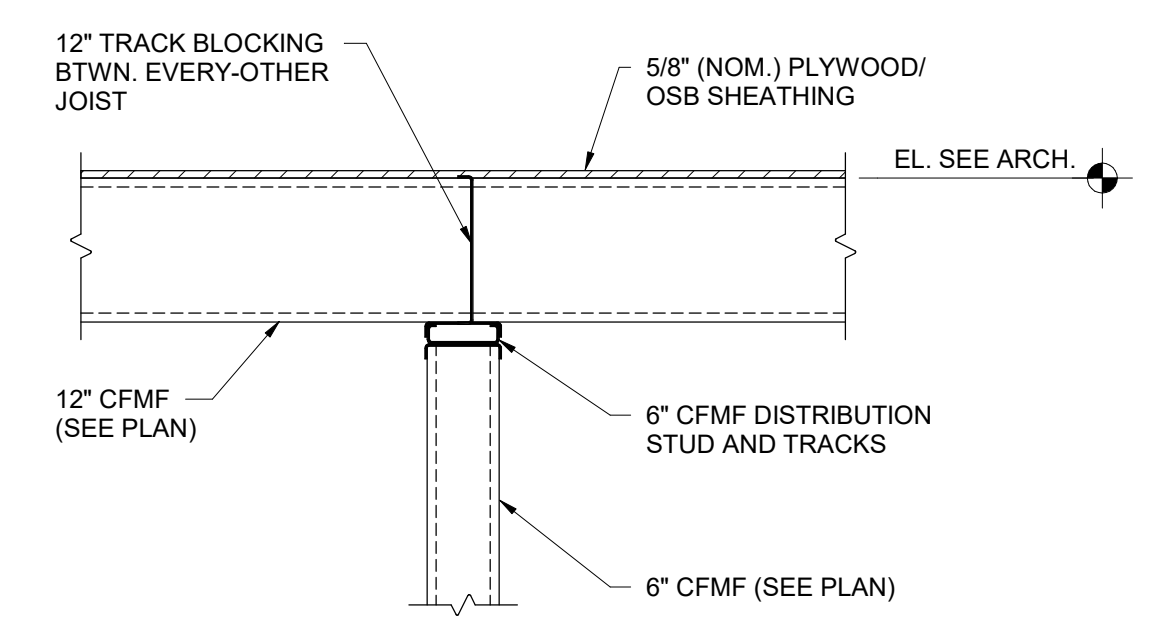
SECTION 1
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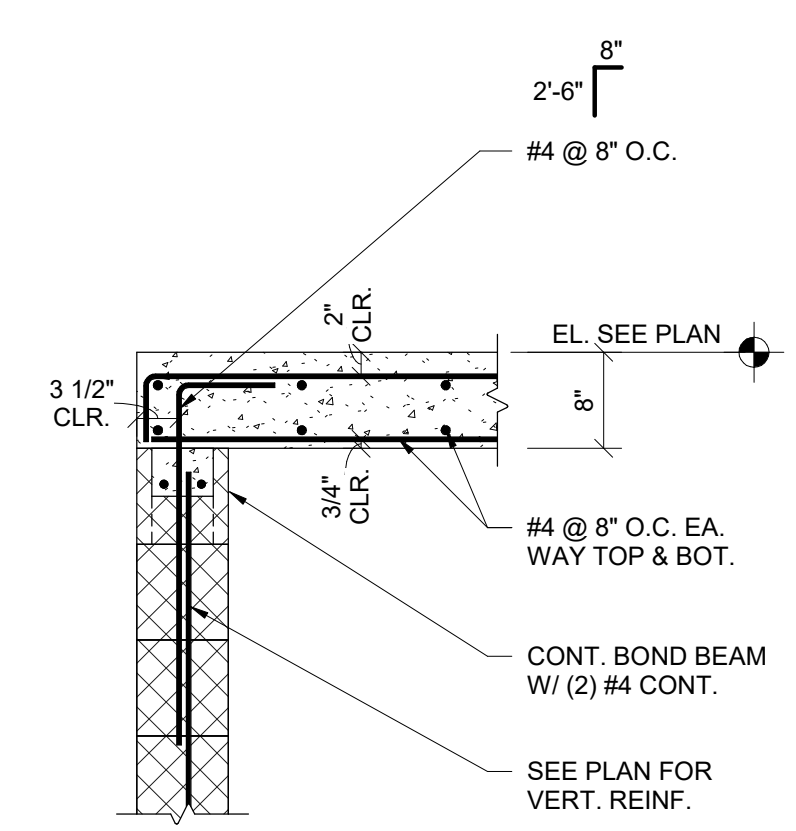
SECTION 2
3/4" = 1'-0"



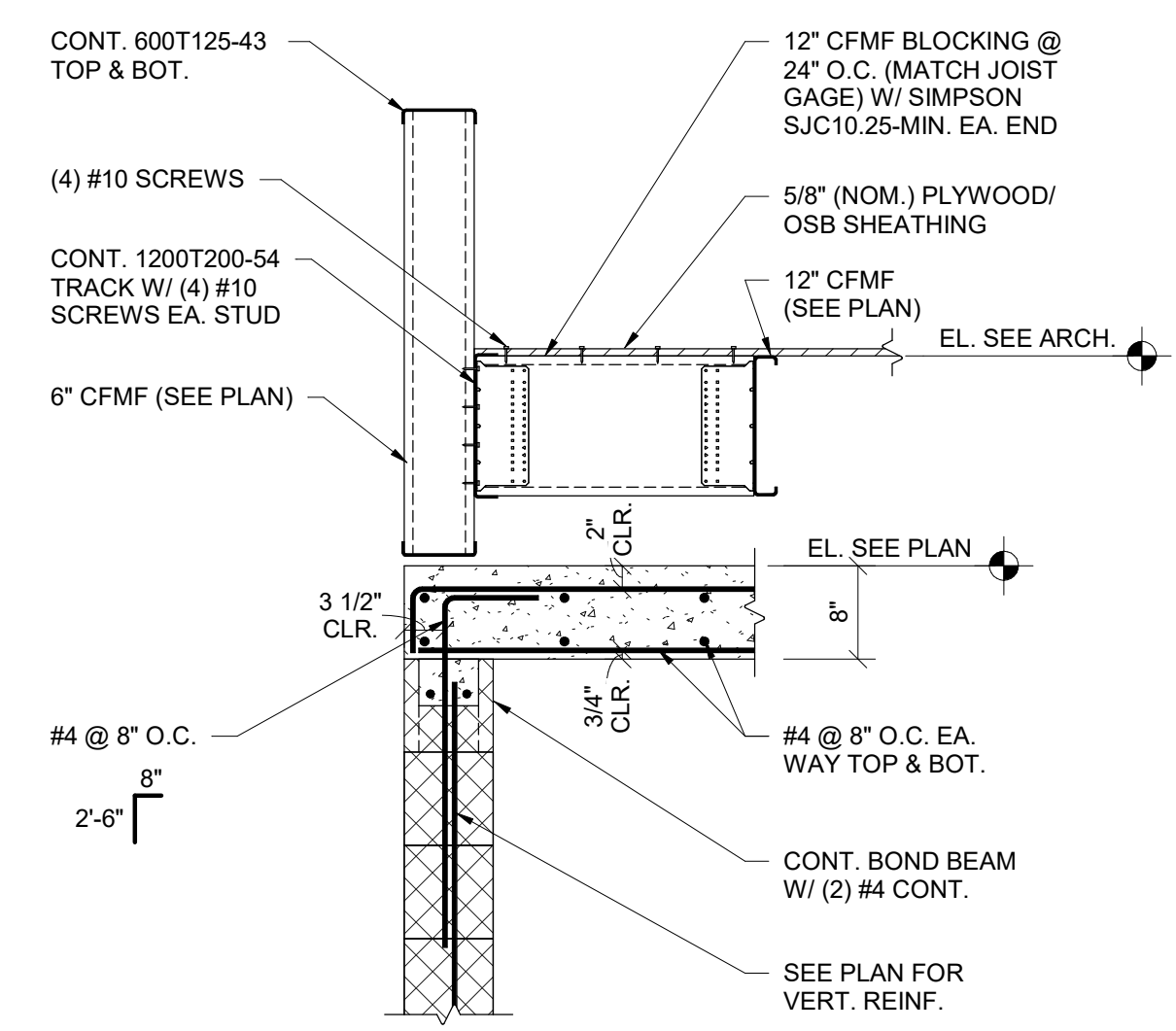
SECTION 3
3/4" = 1'-0"



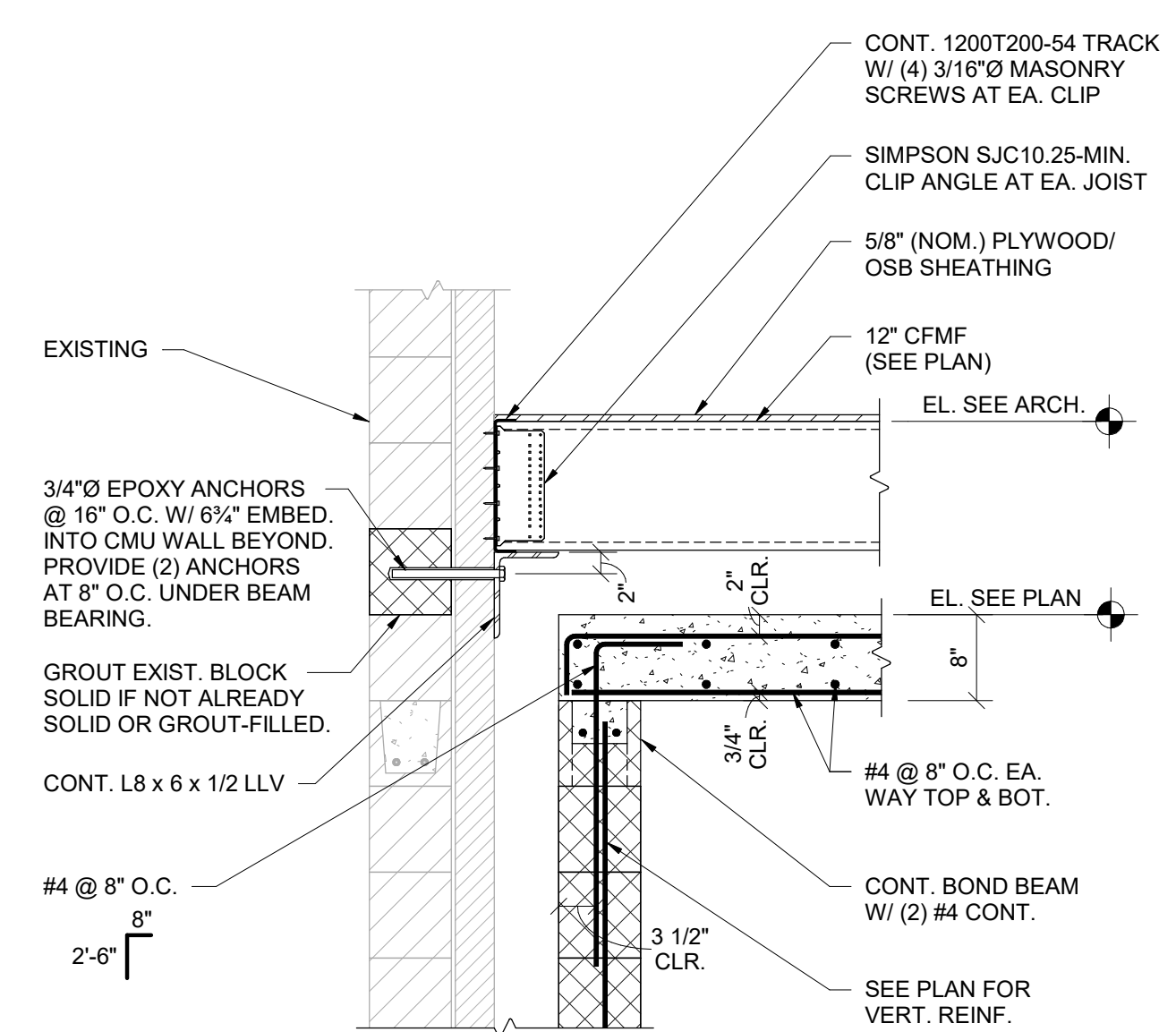
SECTION 4
3/4" = 1'-0"



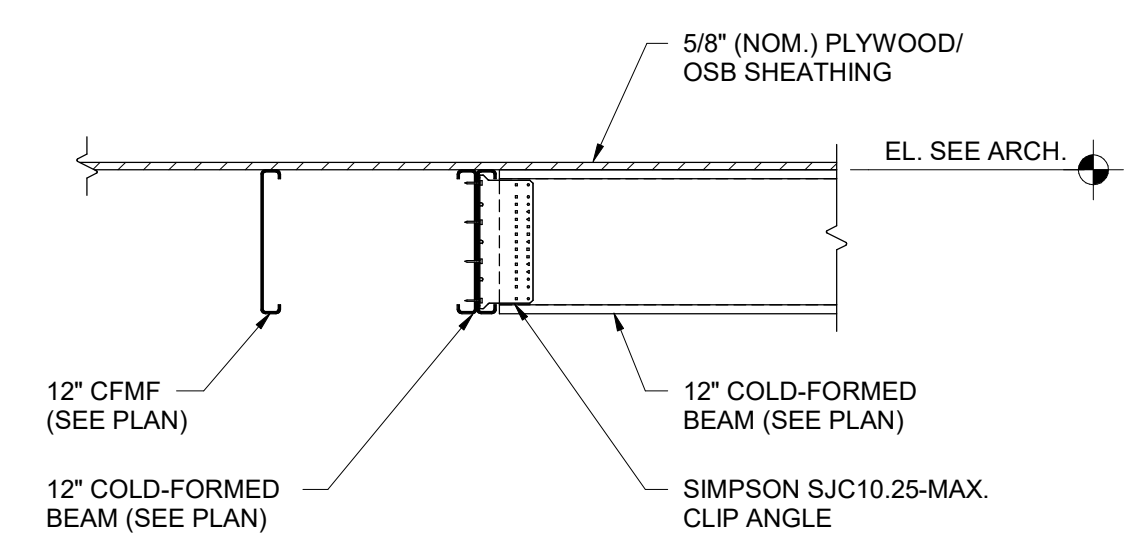
SECTION 5
3/4" = 1'-0"



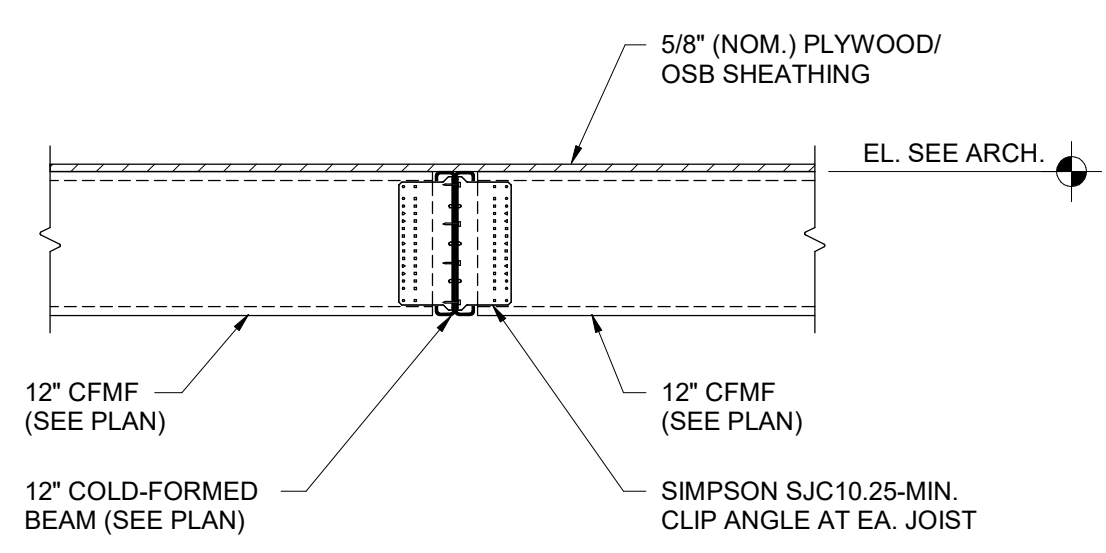
SECTION 6
3/4" = 1'-0"



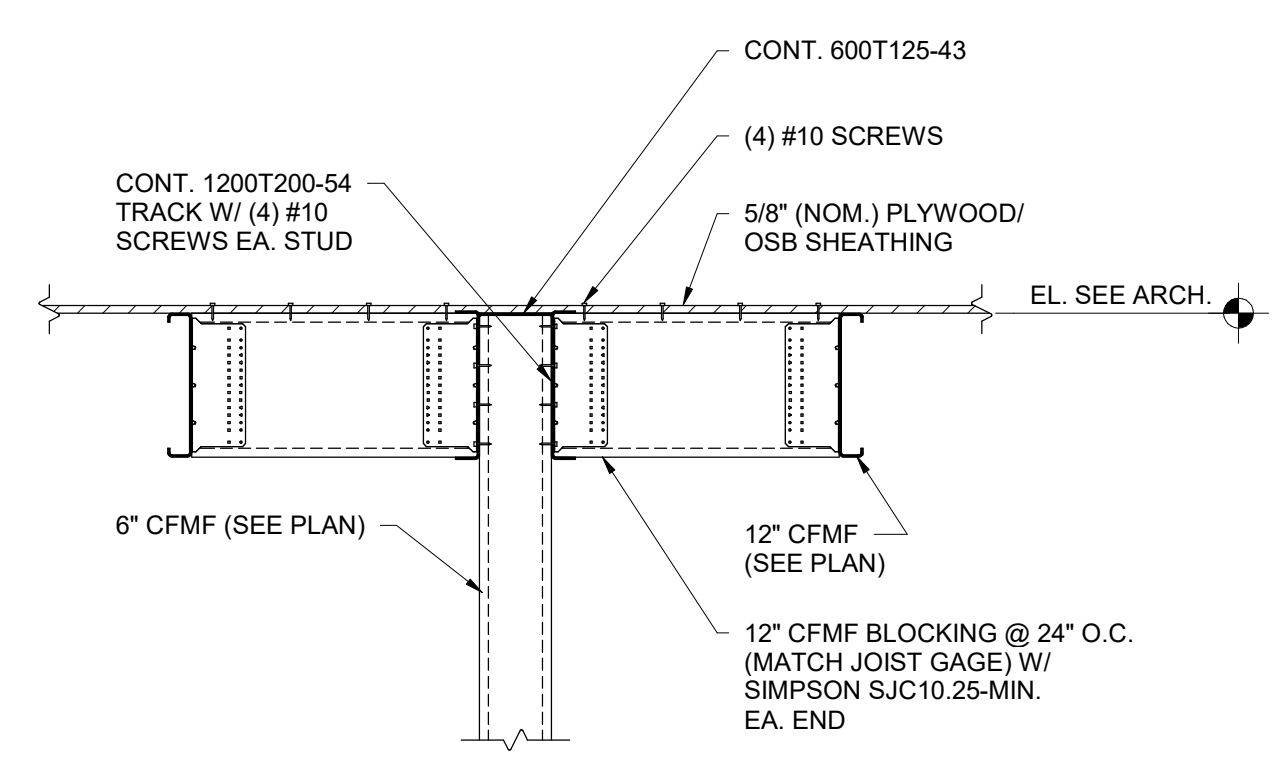
SECTION 7
3/4" = 1'-0"



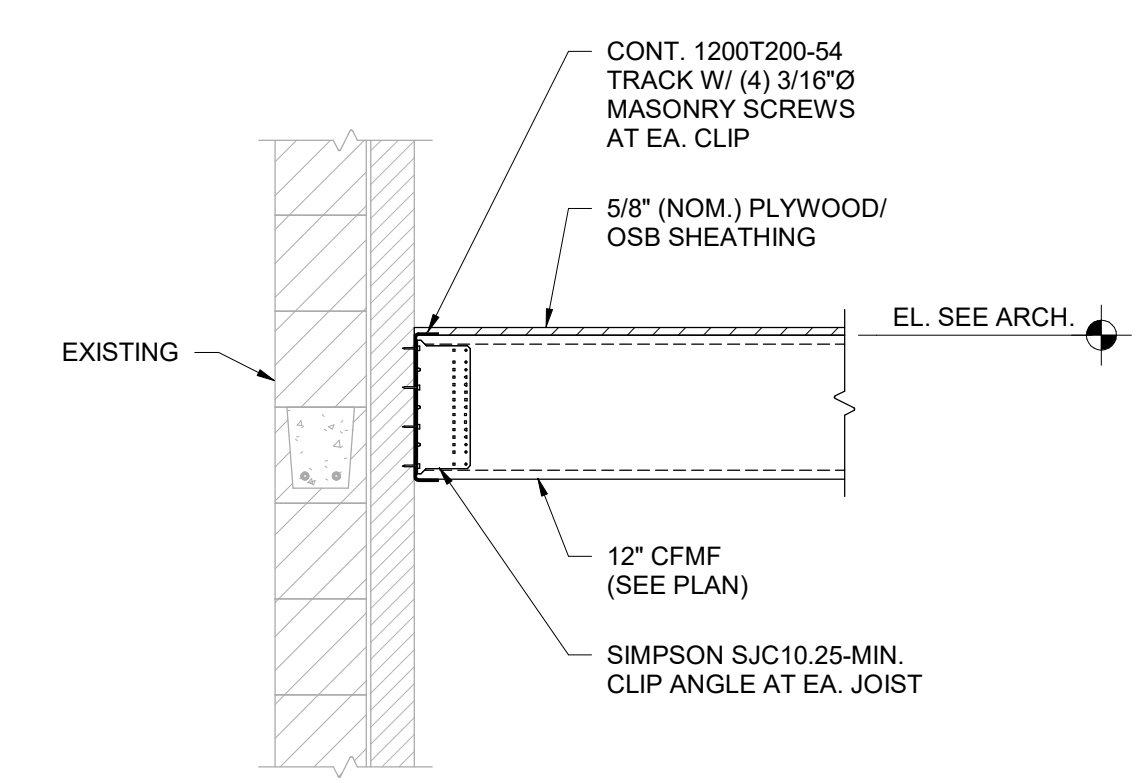
SECTION 8
3/4" = 1'-0"



SECTION 9
3/4" = 1'-0"



SECTION 10
3/4" = 1'-0"



SECTION 11
3/4" = 1'-0"

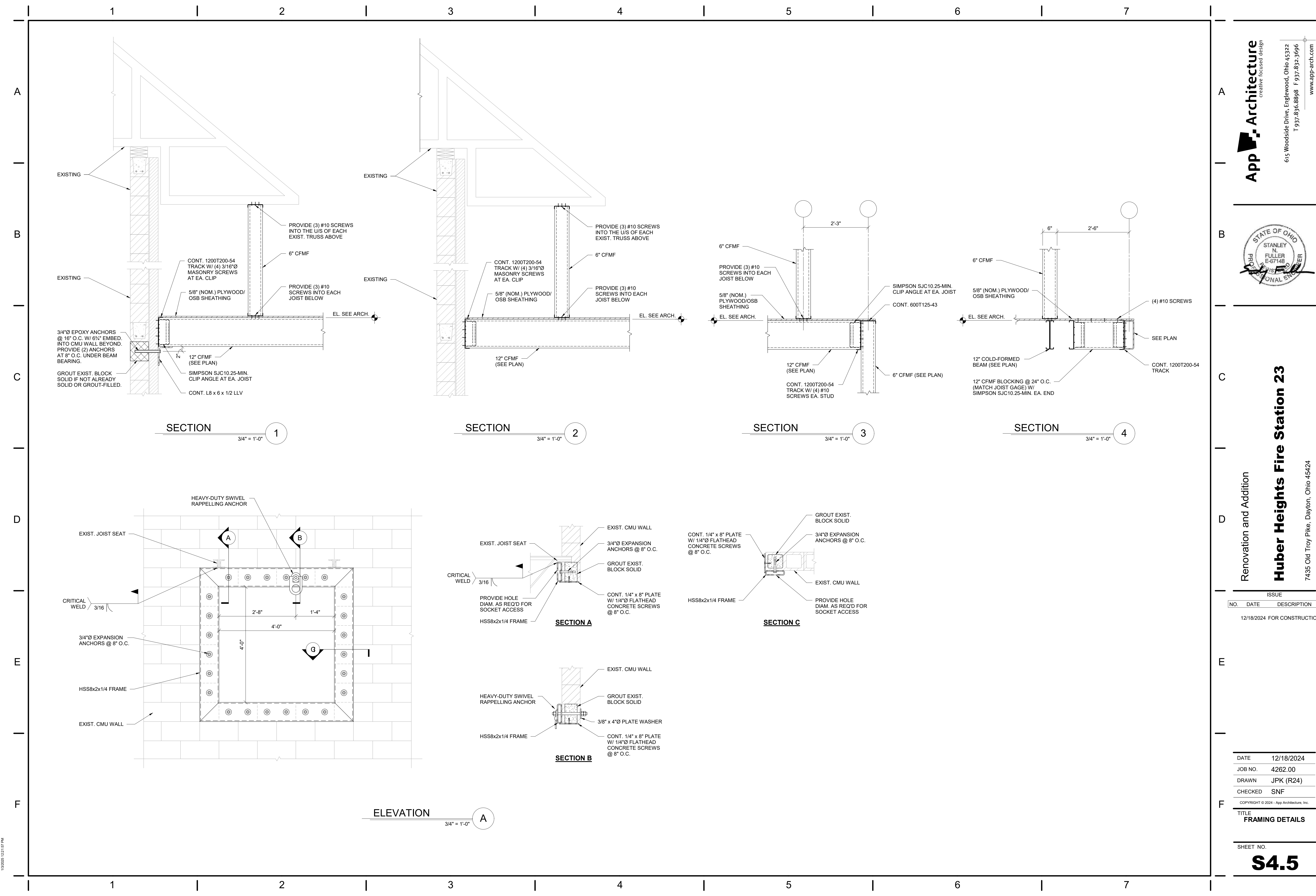


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FIRE SUPPRESSION PIPING

GENERAL NOTES:
 PIPING SHALL CONFORM TO OBC REQUIREMENTS.
 PIPING INSTALLATION AND TESTING SHALL COMPLY WITH NFPA 13 (2016 EDITION).
 PROVIDE PIPING SLEEVES AT WALLS IN NEW CONSTRUCTION.
 PIPING SHALL BE PITCHED FOR DRAINAGE.
 PROVIDE DIELECTRIC FITTINGS FOR TRANSITIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS.
 CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.
 PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.
 PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.
 FLEXIBLE HOSES SHALL BE CONSTRUCTED WITH ANNULAR CORRIGATIONS. HELICAL CORRUGATIONS ARE NOT ACCEPTED.

PIPING SYSTEM	TYPE
FIRE SUPPRESSION PIPING	S2, S3
WET PIPE SPRINKLER 2" AND SMALLER	S2
FINAL CONNECTION TO SPRINKLER HEAD	F1, S2

TYPE	DESCRIPTION	TYPE	DESCRIPTION
S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 OR ASTM A795, 150 LB. MALLEABLE OR C.I. SCREWED FITTINGS	F1	FLEXIBLE SPRINKLER HOSE FITTING 36" LENGTH MAXIMUM FULLY STAINLESS STEEL FLEXIBLE HOSE WITH CEILING BRACKET UL 2443 AND FM 1637 175 PSI RATING FOLLOW UL STANDARDS FOR BEND RADIUS AND NUMBER OF BENDS
S3	ROLL/CUT GROOVED BLACK STEEL SCHEDULE 40, ASTM A53 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536		

GENERAL REQUIREMENTS

- PROVIDE COMPLETE AND FUNCTIONAL FIRE SUPPRESSION SYSTEMS PER FIRE PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- BIDDERS ON FIRE SUPPRESSION WORK SHALL BE REGULARLY ENGAGED IN SPRINKLER SYSTEM WORK AND BE CERTIFIED BY THE STATE.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PERFORM A FLOW TEST TO SERVE AS THE BASIS FOR HYDRAULIC CALCULATIONS. DEVELOP HYDRAULIC CALCULATIONS AND INSTALLATION DRAWINGS NEEDED TO OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION. CALCULATIONS SHALL INCLUDE A 10% SAFETY FACTOR.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

BUILDING SYSTEM OUTAGE NOTES

- DURING PHASE 1 AND PHASE 2 CONSTRUCTION WORK, THE BUILDING WILL REMAIN OCCUPIED BY THE OWNER FOR CONTINUED FIRE DEPARTMENT OPERATION.
- SHUTDOWN, TEMPORARY OUTAGES, CHANGEOVERS, ETC. OF BUILDING SYSTEMS SHALL BE COORDINATED WITH THE OWNER A MINIMUM OF 48 HOURS IN ADVANCE. BUILDING SYSTEMS SHALL BE RESTORED TO OPERATION IN A TIMELY MANNER. EXTEND DURATION OUTAGES OF BUILDING SYSTEMS CRITICAL FOR FIRE DEPARTMENT OPERATION ARE NOT ACCEPTABLE.

SEISMIC REQUIREMENTS

THIS PROJECT HAS SEISMIC REQUIREMENTS. REFER TO HVAC DRAWINGS.

GENERAL NOTES

- THE BUILDING SHALL BE EQUIPPED WITH A LIMITED AREA FIRE SUPPRESSION SYSTEM, AS DEFINED ON THE FIRE SUPPRESSION DRAWINGS.
- ALL FIRE SUPPRESSION EQUIPMENT SHALL BE UL LISTED FOR FIRE SUPPRESSION SERVICE.
- PROVIDE A FIRE WATCH IN ACCORDANCE WITH "AHJ" REQUIREMENTS.
- ALL FIRE SUPPRESSION SYSTEMS (SERVICE MAIN, FIRE DEPT. CONNECTION, SPRINKLER SYSTEM, INSPECTOR TEST, DRAIN, ETC.) SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST TO ALLOW AHJ TO WITNESS ALL TESTS.
- ALL VALVES CONTROLLING WATER SUPPLIES SHALL BE PROVIDED WITH TAMPER SWITCHES (SEE NOTE F).
- THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL STATION FIRE ALARM SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.
- THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE WIRING OF ELECTRICAL FIRE SUPPRESSION DEVICES AND EQUIPMENT WITH THE ELECTRICAL AND/OR FIRE ALARM CONTRACTOR. ALL FIRE ALARM WIRING BY ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR.
- THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES PRIOR TO INSTALLATION.
- THE FIRE SUPPRESSION CONTRACTOR SHALL CENTER (WITHIN 1") ALL CONCEALED SPRINKLER HEADS INSTALLED IN ACOUSTICAL LAY-IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.
- VERIFY THE LOCATION AND TYPE OF FIRE DEPARTMENT CONNECTION WITH THE FIRE DEPARTMENT.
- LOCAL SPRINKLER ALARM AND REMOTE ALARM AND SUPERVISION SHALL BE THRU THE FIRE ALARM SYSTEM PROVIDED BY THE E.C.
- CONCEALED, NONCOMBUSTIBLE ATTIC SPACES DO NOT REQUIRE SPRINKLERS.
- FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AHJ.

DESIGN CRITERIA

- DESIGN AND INSTALLATION OF SERVICE MAIN AND WET PIPE SPRINKLER SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2024 OHIO BUILDING CODE, N.F.P.A. 13 (2022 EDITION), AND ALL AUTHORITIES HAVING JURISDICTION (AHJ).
- WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED, SUBMITTED, AND APPROVED PRIOR TO INSTALLATION, BY THE FIRE SUPPRESSION CONTRACTOR. PLANS SHALL INCLUDE ALL ITEMS LISTED IN N.F.P.A. 13.
- WATER SUPPLY DATA: THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A FLOW TEST TO OBTAIN CURRENT WATER SUPPLY DATA FROM THE NEW WATER DISTRIBUTION SYSTEM FOR USE IN THE HYDRAULIC CALCULATIONS.
- HYDRAULIC DESIGN CRITERIA FOR LIGHT HAZARD AREAS: (ALL AREAS EXCEPT WHERE NOTED OTHERWISE)

DENSITY:	0.10 GPM/SQ.FT.
DESIGN AREA:	MOST DEMANDING 1500 SQ. FT. (REDUCTION WITH QUICK RESPONSE HEADS PERMITTED)
MAX SPRINKLER COVERAGE:	225 SQ. FT./HEAD
HOSE DEMAND:	100 GPM
DURATION:	30 MINUTES
- HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 1) AREAS: (STORAGE ROOMS, MECHANICAL ROOMS, JANITOR'S ROOMS, KITCHEN, COMMUNICATION ROOMS)

DENSITY:	0.15 GPM/SQ.FT.
DESIGN AREA:	MOST DEMANDING 1500 SQ. FT.
MAX SPRINKLER COVERAGE:	130 SQ. FT./HEAD
HOSE DEMAND:	250 GPM
DURATION:	60 MINUTES
- ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
- SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE CONCEALED PENDENT TYPE WITH FLAT PLATE AND CUSTOM COLOR TO MATCH THE ADJACENT CEILING COLOR OR FINISH.
- SPRINKLER HEADS IN AREAS WITH NO CEILINGS SHALL BE BRASS/ CUSTOM COLOR UPRIGHTS. SIDEWALL SPRINKLER HEADS MAY ALSO BE USED IN STAIRWELLS WHERE PROPER COVERAGE CAN BE PROVIDED.

FIRE SUPPRESSION INDEX OF DRAWINGS

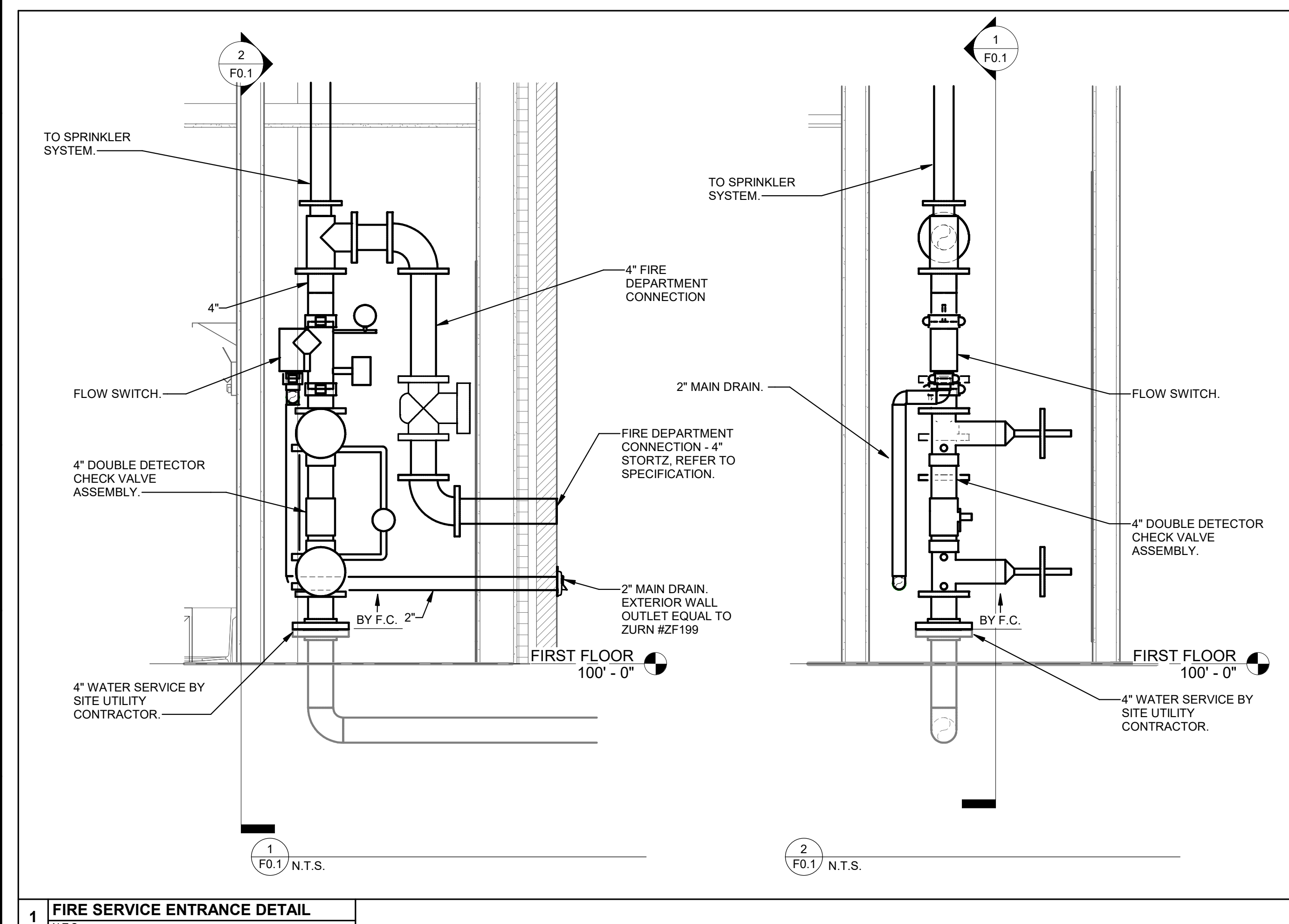
SHEET	DRAWING TITLE
F0.1	LEGENDS, SCHEDULES & DETAILS
F0.2	DETAILS
F1.1	PHASE 1 - FIRE SUPPRESSION PLAN
F1.2	PHASE 2 - FIRE SUPPRESSION PLAN

GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- W WEATHER PROOF.
- 3 NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- 2 DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- H-1 EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- H-1 EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
- 123 ROOM NUMBER.
- H2 DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
- A H1 SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
- CONNECTION, NEW TO EXISTING.
- FD1 UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
- 1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- 2 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- 3 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

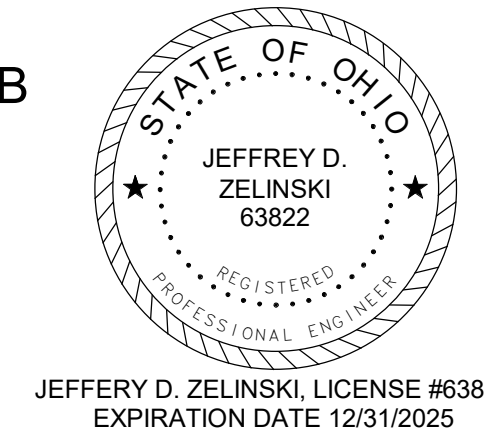
FIRE SUPPRESSION

- F FIRE SUPPRESSION SYSTEM
- S SPRINKLER SYSTEM
- GATE VALVE
- VALVE
- VALVE ON RISER
- CHECK VALVE
- SUPERVISED VALVE
- FS FLOW SWITCH
- CAP
- CONNECTION, BOTTOM
- CONNECTION, TOP
- ELBOW, 90°, LONG RADIUS
- ELBOW, 45°
- ELBOW, TURNED UP
- ELBOW TURNED DOWN
- REDUCER
- UNION
- P PRESSURE GAUGE
- SPRINKLER BEING REMOVED
- PENDANT SPRINKLER
- UPRIGHT SPRINKLER
- SEMI-RECESSED SPRINKLER
- CONCEALED SPRINKLER
- INSTITUTIONAL PENDANT SPRINKLER
- SIDEWALL SPRINKLER



1 FIRE SERVICE ENTRANCE DETAIL N.T.S.

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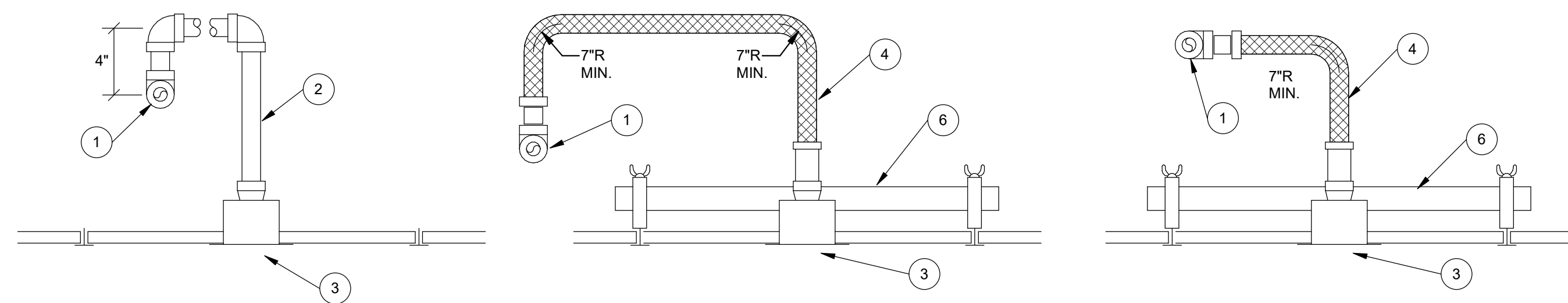
Renovation and Addition
Huber Heights Fire Station 23
 7435 Old Troy Pike, Dayton, Ohio 45424

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	12/18/2024	FOR CONSTRUCTION

DATE	12/13/2024
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CHECKED	JDZ
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SHEET NO.	

F0.1

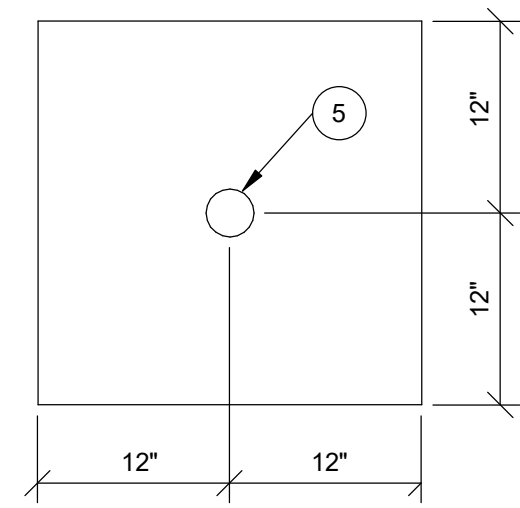
NAUMAN & ZELINSKI LLC.
 204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
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 PROJECT # 24045



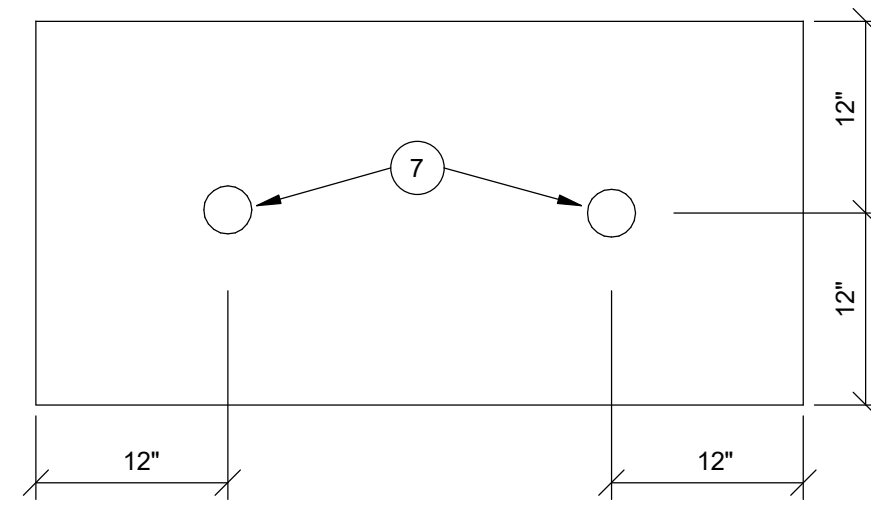
CENTER TILE USING THREADED STEEL PIPE

CENTER TILE WITH TWO BENDS USING FLEXIBLE DROP

CENTER TILE WITH ONE BEND USING FLEXIBLE DROPS



TYPICAL 2'x2' CEILING TILE INSTALLATION



TYPICAL 2'x4' CEILING TILE INSTALLATION

- ① SPRINKLER BRANCHLINE.
- ② THREADED STEEL PIPING.
- ③ SPRINKLER HEAD. SEE DESIGN CRITERIA FOR HEAD TYPE.
- ④ FLEXIBLE SPRINKLER HOSE.
- ⑤ SPRINKLER HEAD MOUNTED IN CENTER OF 2'x2' CEILING TILE.
- ⑥ MOUNTING BRACKET PROVIDED WITH FLEXIBLE HOSE.
- ⑦ SPRINKLER HEAD MOUNTED AT EITHER QUARTER POINT OF CEILING TILE.

GENERAL NOTES:

FLEXIBLE SPRINKLER PIPING SHALL MEET UL STANDARDS FOR MINIMUM BEND RADIUS AND MAXIMUM NUMBER OF BENDS.

ONE BEND IS EQUAL TO ONE 90° DEGREE CHANGE IN PIPING DIRECTION.

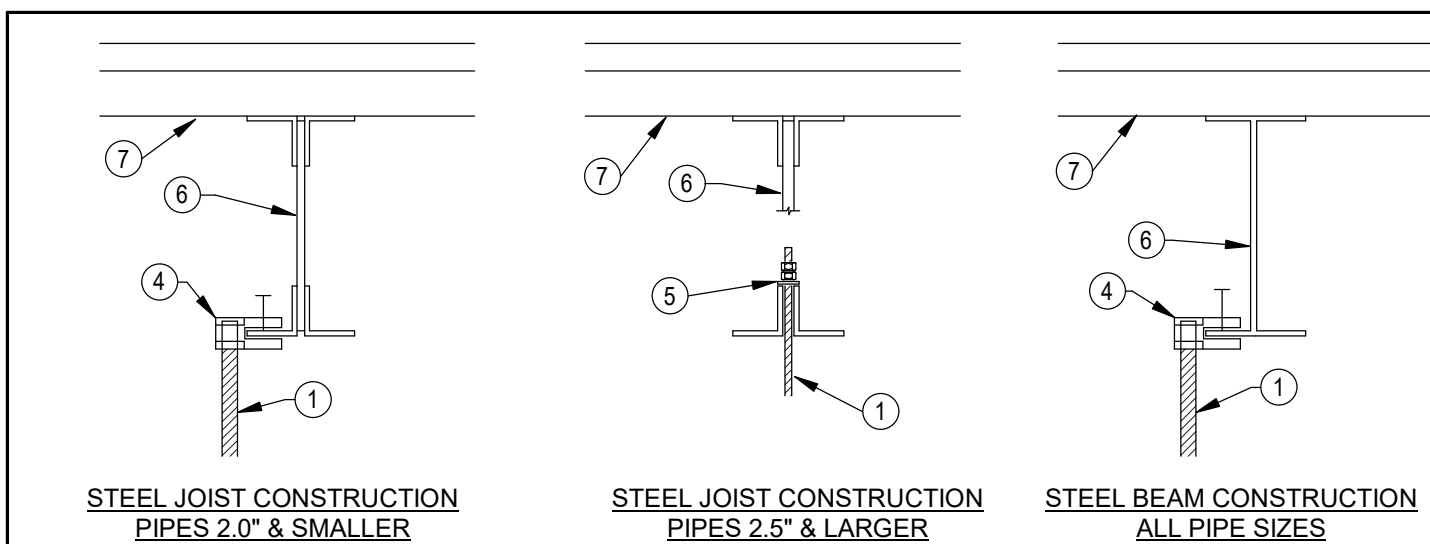
TWO BENDS IS EQUAL TO TWO 90° DEGREE, TOTAL OF 180°, CHANGE IN PIPE DIRECTION.

REFER TO FLEXIBLE HOSE MANUFACTURERS SPECIFICATION FOR THE ALLOWABLE NUMBER OF BENDS IN PROVIDED LENGTHS OF FLEXIBLE HOSES.

THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR COORDINATING SPRINKLER PIPING BRANCH RUNS TO ALLOW FOR FM APPROVED INSTALLATION OF FLEXIBLE HOSES.

FLEXIBLE HOSES SHALL BE CONSTRUCTED WITH ANNUAL CORRUGATIONS. HELICAL CORRUGATIONS ARE NOT ACCEPTED.

1 SPRINKLER HEAD FINAL CONNECTIONS
N.T.S.



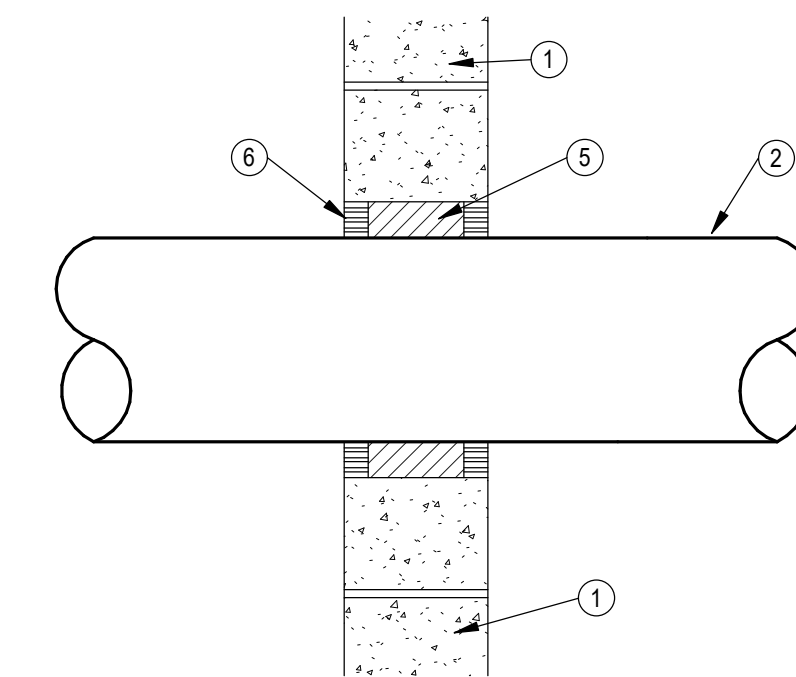
STEEL JOIST CONSTRUCTION
PIPES 2.0" & SMALLER

STEEL JOIST CONSTRUCTION
PIPES 2.5" & LARGER

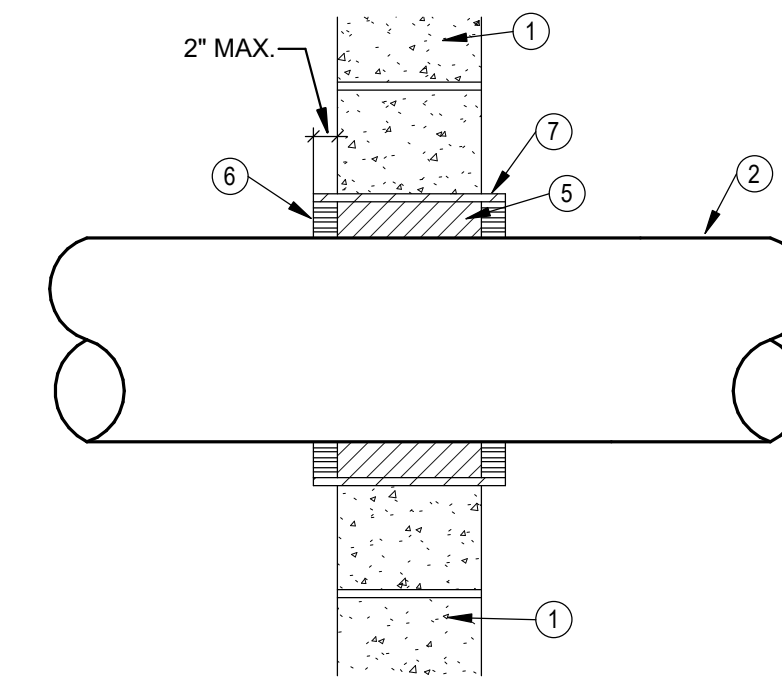
STEEL BEAM CONSTRUCTION
ALL PIPE SIZES

- ① GALVANIZED THREADED ROD, ADJUST NUTS & RODS FOR PROPER ELEVATION.
- ② STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG. 260.
- ③ PIPE.
- ④ THREADED ROD BEAM CLAMP.
- ⑤ RETAINING NUTS & WASHERS.
- ⑥ STEEL JOIST OR BEAM.
- ⑦ METAL DECKING. DIRECT ATTACHMENT TO DECKING IS PROHIBITED. PROVIDE SUPPLEMENTAL STEEL ANGLES OR UNISTRUT WHERE REQUIRED FOR PROPER HANGER SPACING OR IN LIEU OF ATTACHMENTS SHOWN.
- ⑧ CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.

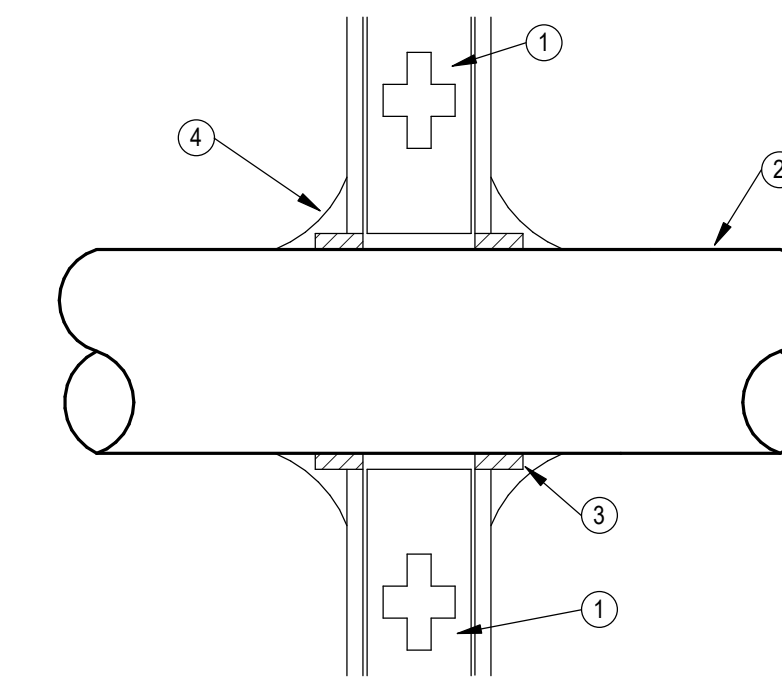
4 TYPICAL PIPE HANGER
N.T.S.



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES



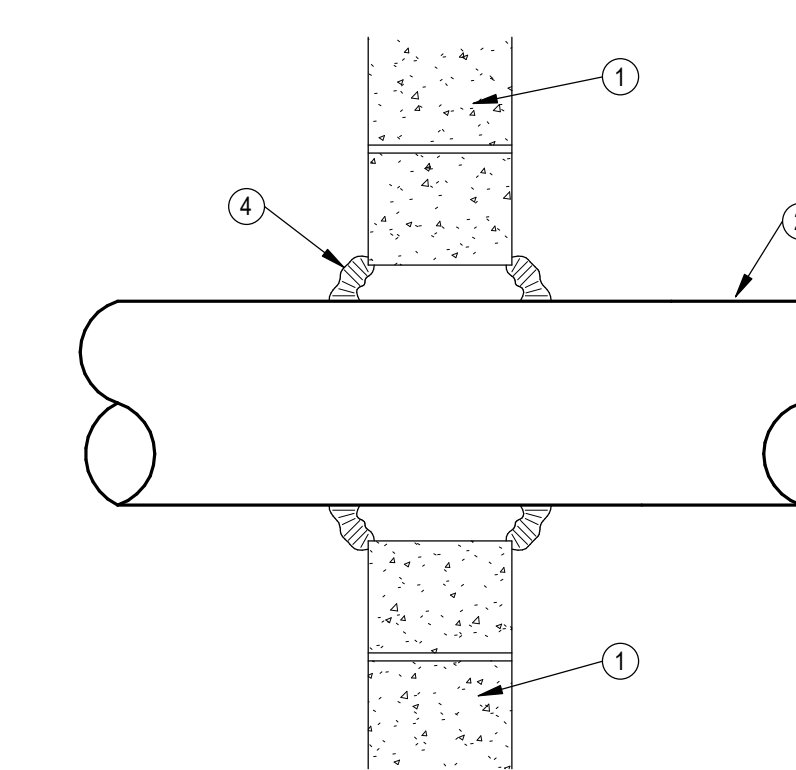
GYPSUM CONSTRUCTION
ALL PIPE SIZES

FIRESTOPPING MATERIALS/INSTALLATION

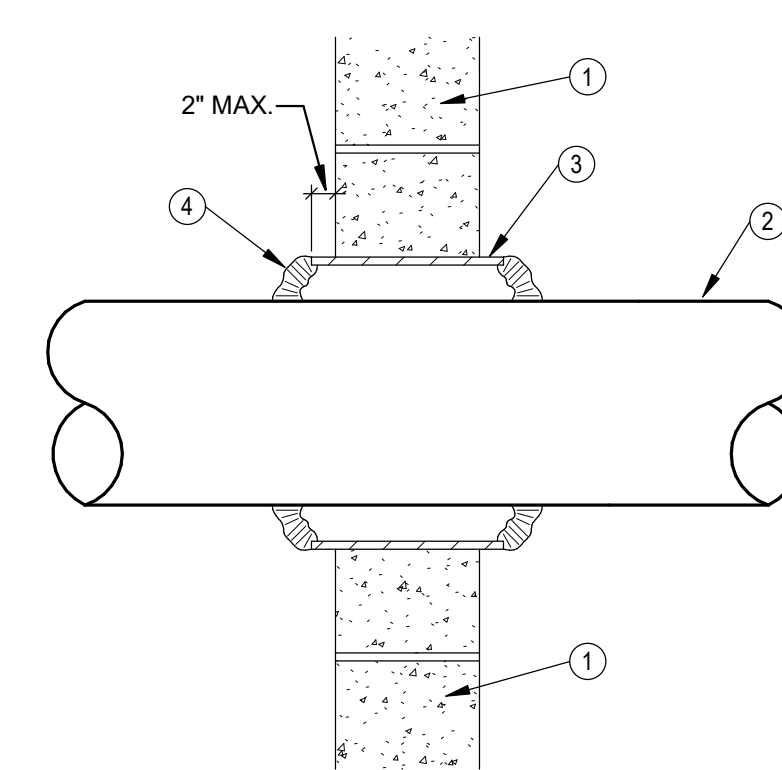
- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

- ① RATED WALL ASSEMBLY.
- ② PIPE.
- ③ APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
- ④ APPROVED FIRESTOPPING CAULK OR SEALANT.
- ⑤ PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
- ⑥ APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
- ⑦ SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

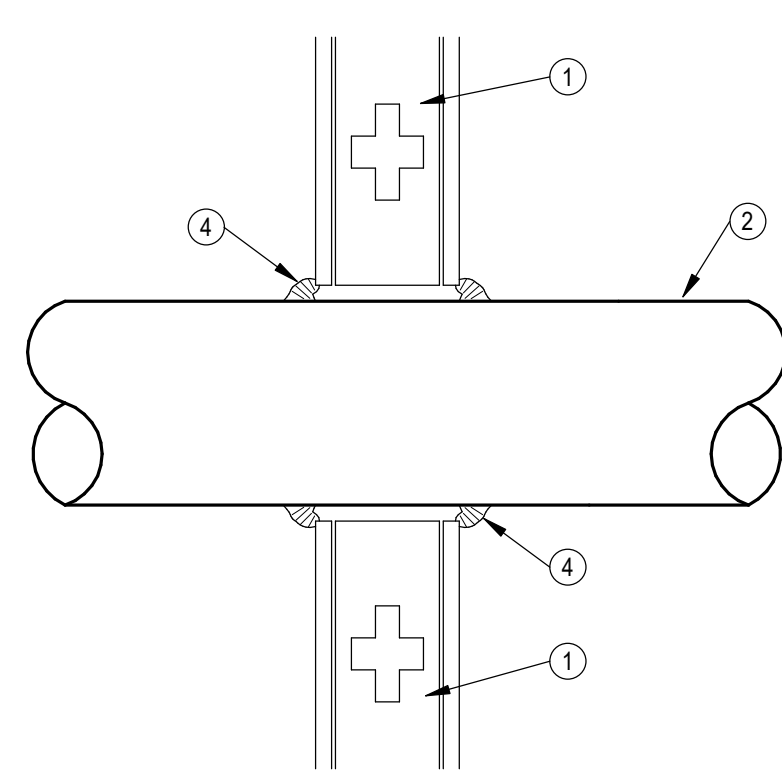
2 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



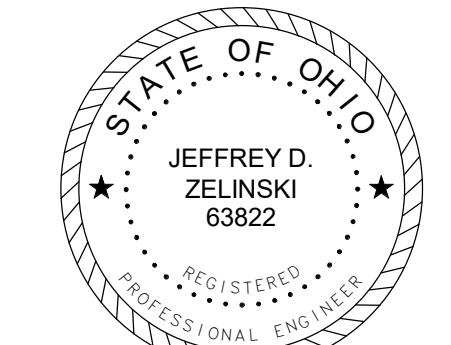
CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES



GYPSUM CONSTRUCTION
ALL PIPE SIZES

- ① FULL HEIGHT INTERIOR WALL.
- ② PIPE OR TUBING.
- ③ SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
- ④ CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

3 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

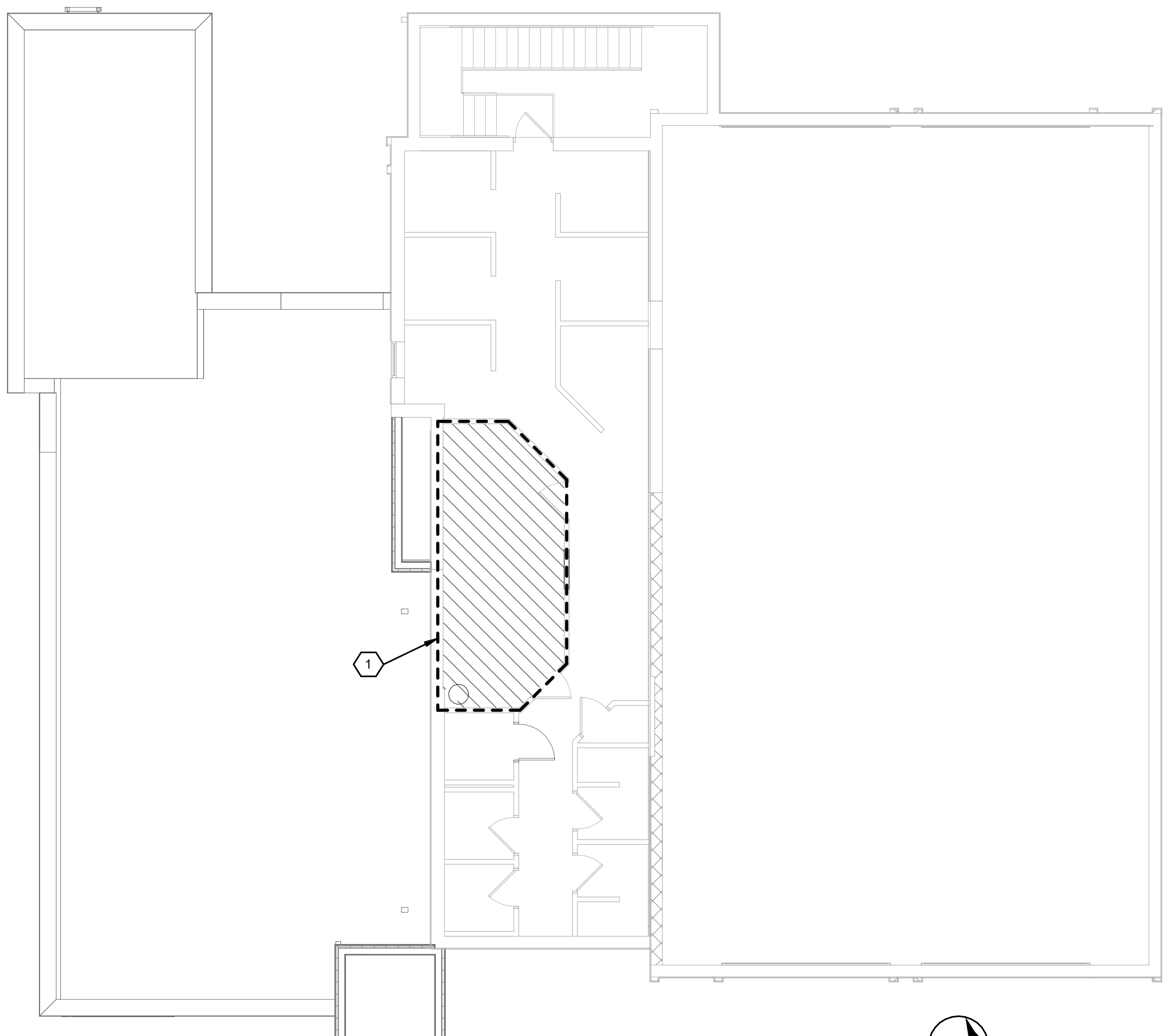
ISSUE		
NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/13/2024
JOB NO.	4262.00
DRAWN	DJZ
CHECKED	JDZ

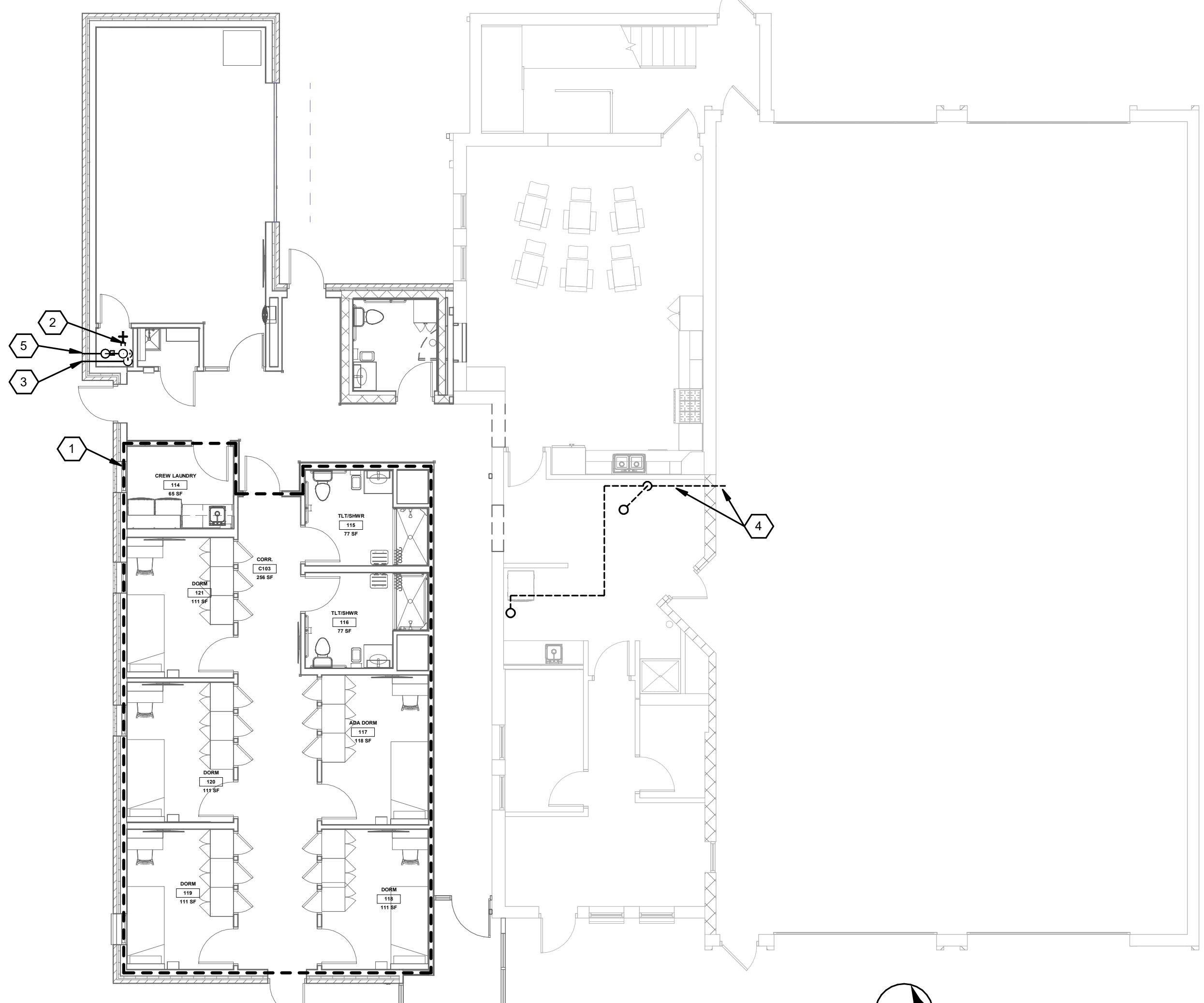
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TITLE

A
B
C
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E
F

1 2 3 4 5 6 7



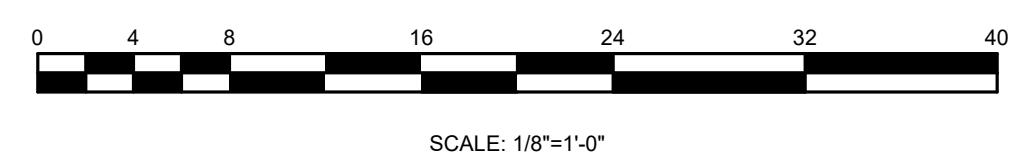
SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

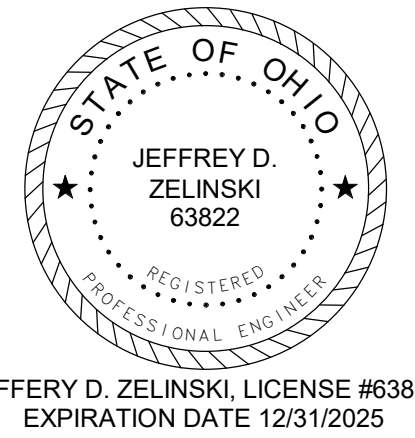
HAZARD CLASSIFICATIONS	
NO HATCH	LIGHT HAZARD DENSITY - 0.10GPM/SP MAX AREA PER HEAD - 225 SF HOSE ALLOWANCE - 100 GPM
[Diagonal Hatching]	ORDINARY HAZARD GROUP 1 DENSITY - 0.15GPM/SP MAX AREA PER HEAD - 130 SF HOSE ALLOWANCE - 250 GPM
[Cross-hatching]	ORDINARY HAZARD GROUP 2 DENSITY - 0.20GPM/SP MAX AREA PER HEAD - 130 SF HOSE ALLOWANCE - 250 GPM

- | CONSTRUCTION NOTES | |
|--------------------|--|
| 1. | AREA OF LIMITED FIRE SUPPRESSION. |
| 2. | FIRE SUPPRESSION RISER AND MAIN DRAIN. REFER TO DETAIL 1, F0.1. |
| 3. | MAIN DRAIN CONNECTS TO EXTERIOR OUTLET, OUTLET EQUAL TO ZURN #ZF199. COLOR SELECTED BY ARCHITECT. |
| 4. | REMOVE EXISTING LIMITED AREA FIRE SUPPRESSION SYSTEM. REMOVE ALL PIPING, MONITORING VALVES, AND OTHER ACCESSORIES. CAP PIPING BRANCH AT TEE CONNECTION TO DOMESTIC WATER SYSTEM TO AVOID A DEAD LEG. |
| 5. | FIRE DEPARTMENT CONNECTION. REFER TO DETAIL AND SPECIFICATION. |



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JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

ISSUE		
NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/13/2024
JOB NO.	4262.00
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CHECKED	JDZ

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TITLE
PHASE 1 - FIRE SUPPRESSION PLAN

SHEET NO.
F1.1

12/17/2024 12:34:28 PM

1

2

3

4

5

6

7

A

B

C

D

E

F



CONSTRUCTION NOTES

1. AREA OF LIMITED FIRE SUPPRESSION.
2. FIRE SERVICE ENTRANCE INSTALLED UNDER PHASE 1 WORK.

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JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

ISSUE		
NO.	DATE	DESCRIPTION
1	12/18/2024	FOR CONSTRUCTION

DATE	12/13/2024
JOB NO.	4262.00
DRAWN	DJZ
CHECKED	JDZ

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TITLE
PHASE 2 - FIRE SUPPRESSION PLAN

SHEET NO.

F1.2



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

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Phone: (937) 223-3821 Fax: (937) 223-3849
PROJECT # 24045

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE DESCRIPTION	FIXTURE	SERVICES				MTG. HGT.	TRIM REQUIREMENTS						NOTES
			H.W.	C.W.	SAN.	VENT		SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES	
W1	WATER CLOSET / VIT. CHINA / FLOOR SET / TANK TYPE / 1.6 GPF / PRESSURE-ASSISTED / ELONGATED BOWL / 16 1/2" RIM HEIGHT / CLOSED FRONT SEAT / ACCESSIBLE	A.M. STANDARD #2467.016	-	1/2"	4"	REFER TO P4.1	-	UNIT	MCGUIRE #LFBV2166	UNIT	INTEGRAL	-	SEAT A.M. STANDARD #5503A008	
L1	LAVATORY / SOLID SURFACE / INTEGRAL BOWL WITH COUNTERTOP / SINGLE LEVER CAST BRASS FAUCET / 0.5 GPM / ACCESSIBLE	BY ARCHITECT	1/2"	1/2"	1-1/4"	REFER TO P4.1	-	CHICAGO #410-T41E2805AB CP	MCGUIRE #LFBV2165	WITH TRAP	MCGUIRE #PW2150WC	-	POWERS #LFE480	
S1	SINK / ST. ST. / UNDERMOUNT / SINGLE BOWL / 18" x 18-1/2" x 7-7/8" DEEP BOWL / SINGLE LEVER FAUCET W/ PULL DOWN SPRAY / PERFECT DRAIN	ELKAY #ELUH1316PD	1/2"	1/2"	1-1/2"	REFER TO P4.1	-	AM. STANDARD STUDIO S #4803410	MCGUIRE #LFBV2165	MCGUIRE #151A	MCGUIRE #8912	-	-	
S2	SINK / ST. ST. / UNDERMOUNT / DOUBLE BOWL / 13-1/2" x 16" x 10" DEEP BOWL / SINGLE LEVER FAUCET W/ PULL DOWN SPRAY AND COIL / DISPOSAL	ELKAY #EFRU311810T	1/2"	1/2"	(2) 1-1/2"	REFER TO P4.1	-	AM. STANDARD STUDIO S #4803350	MCGUIRE #LFBV2165	MCGUIRE #151A	MCGUIRE #8912	-	INSINKERATOR #ADVANCED PRO-1250	1
S3	SINK / ST. ST. / INTEGRAL W/ C/TOP / DOUBLE BOWL / FOOT PEDAL ACTUATORS / SWING SPOUT WITH FLEXIBLE SPRAYER HOSE / BASKET STRAINER / EMERG. DRENCH HOSE WITH MIXING VALVE	BY ARCHITECT	1/2"	1/2"	(2) 1-1/2"	REFER TO P4.1	-	CHICAGO #625-ABRCF & #2305-613AABCP	MCGUIRE #LFBV2165	MCGUIRE #151A (2 REQ.)	MCGUIRE #8912 & #111	-	GUARDIAN #G5022-HG & G3600LF	2
SH1	SHOWER / STALL BY OTHERS / CENTER DRAIN WITH NO THRESHOLD STYLE / PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR / DIVERTER VALVE IN WALL	BY ARCHITECT	1/2"	1/2"	3"	REFER TO P4.1	VALVE 42" HEAD 86"	CHICAGO #SH-TP4-21-024	UNIT	UNIT	SAME AS SANITARY PIPING	-	-	
SH2	SHOWER / STALL BY OTHERS / CENTER DRAIN WITH NO THRESHOLD STYLE / PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR / DIVERTER VALVE IN WALL	BY ARCHITECT	1/2"	1/2"	3"	REFER TO P4.1	VALVE 42" HEAD 86"	CHICAGO #SH-TP4-21-024	UNIT	UNIT	SAME AS SANITARY PIPING	-	-	
M1	MOP SINK / FLOOR SET / 24" SQ. 10" DEEP / MOLDED STONE / ST. ST. CAPS / ST. ST. WALL PANELS / WALL MOUNTED ROUGH CHROME FAUCET WITH INTEGRAL CHECK STOPS	FIAT #MSB2424	1/2"	1/2"	3"	REFER TO P4.1	36" FAUCET	ZURN Z843M1-CS-RC	UNIT	UNIT	SAME AS SANITARY PIPING	-	FIAT #E-88-AA (2 REQ'D.) #MSG2424 (2 REQ'D.)	
WF1	BOTTLE FILLER / RECESSED / FILTERED / REFRIGERATED / ACCESSIBLE	ELKAY #LZWSM8K	-	1/2"	1-1/2"	REFER TO P4.1	38 7/8" TO OUTLET	UNIT	BALL VALVE ABOVE CEILING	UNIT	CAST BRASS	-	-	
WB1	WASHER UTILITY CONNECTION / 1/4 TURN BALL VALVES WITH HAMMER ARRESTORS / WASTE CONNECTION	OATEY #38540	1/2"	1/2"	2"	REFER TO P4.1	30"	UNIT	BALL VALVE ABOVE CEILING	UNIT	SAME AS SANITARY PIPING	-	-	
WB2	ICE MAKER CONNECTION / 1/4 TURN BALL VALVES / 6" ST. ST. HOSE	OATEY #38574	-	1/2"	-	REFER TO P4.1	48"	UNIT	BALL VALVE ABOVE CEILING	-	-	-	-	
WH1	WALL HYDRANT / ENCASED / NON-FREEZE / ANTI-SIPHON / AUTOMATIC DRAINING / 1/2 TURN CERAMIC DISC / WALL CLAMP	ZURN #Z1320XL-EZ-WC	-	1/2"	-	REFER TO P4.1	APPROX. 22"	-	BALL VALVE ABOVE CEILING	-	-	-	-	

EQUALS
 AMERICAN STANDARD CHINA - KOHLER, ZURN, SLOAN
 AMERICAN STANDARD FAUCETS - KOHLER, ZURN, CHICAGO
 SLOAN FLUSH VALVES - ZURN, DELANEY
 ELKAY SINKS - JUST, ADVANCED TABCO
 MCGUIRE - WATTS, BRASS CRAFT
 MCGUIRE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBEREX "PROEXTREME"
 OATEY SUPPLY BOXES - IPS, GUY GRAY, SIOUX CHIEF
 ZURN - JR SMITH, WATTS

NOTES:
 1. GARBAGE DISPOSAL SHALL BE 1.25 HP, 4 STAGE CONTROL MODEL, 12 YEAR WARRANTY.
 2. SUPPLY DOES NOT REQUIRE SEPERATE MIXING VALVE.

PLUMBING LEGEND

—ST—	SANITARY DRAIN ABOVE FLOOR OR GRADE
—SST—	STORM DRAIN ABOVE FLOOR OR GRADE
—CD—	CONDENSATE DRAIN ABOVE FLOOR OR GRADE
----	VENT
----	COLD WATER
----	HOT WATER
----	HOT WATER RETURN
—G—	NATURAL GAS
—A—	COMPRESSED AIR
⊕	FLOOR DRAIN
Y	FUNNEL DRAIN, OPEN
C.O.	CLEAN OUT
⌵	SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
⌵	CHECK VALVE
⌵	BALANCING VALVE
⌵	VALVE ON RISER
⊕	UNION, SCREWED
⊕	REGULATOR
⊕	PRESSURE GAUGE
⊕	TEMPERATURE GAUGE
⊕	CONNECTION, BOTTOM
⊕	CONNECTION, TOP
→	DIRECTION OF FLOW
⌵	CAP
V.R.	VENT RISER
V.T.R.	VENT THRU ROOF
S.S.	SOIL STACK
V.S.	VENT STACK
D.S.	DOWNSPOUT (STORM)
S.D.S.	SECONDARY DOWNSPOUT (STORM)
S.S.O.	SECONDARY STORM OUTLET

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B	DETAIL SYMBOL
H2	DETAIL "B" SHOWN ON SHEET H2.
A	SECTION SYMBOL
H1	SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
⊕	CONNECTION, NEW TO EXISTING.
⊕	UP TO SYMBOL
FD1	UP TO "FD1", SHOWN ON FLOOR ABOVE.
----	1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
----	2 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
----	3 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
----	ITEM TO BE REMOVED.
----	EXISTING TO REMAIN.
----	NEW ITEM.

SEISMIC REQUIREMENTS

THIS PROJECT HAS SEISMIC REQUIREMENTS. REFER TO HVAC DRAWINGS.

PLUMBING INDEX OF DRAWINGS

SHEET	DRAWING TITLE
P0.1	LEGENDS & SCHEDULES
P0.2	MATERIAL SCHEDULES
P0.3	SITE PLAN
P1.0	PHASE 1 - UNDERSLAB DEMOLITION PLAN
P1.1	PHASE 1 - FIRST FLOOR DEMOLITION PLAN
P1.2	PHASE 1 - SECOND FLOOR DEMOLITION PLAN
P1.3	PHASE 1 - UNDERSLAB NEW WORK PLAN
P1.4	PHASE 1 - FIRST FLOOR NEW WORK PLAN
P1.5	PHASE 1 - SECOND FLOOR NEW WORK PLAN
P2.0	PHASE 2 - UNDERSLAB DEMOLITION PLAN
P2.1	PHASE 2 - FIRST FLOOR DEMOLITION PLAN
P2.2	PHASE 2 - SECOND FLOOR DEMOLITION PLAN
P2.4	PHASE 2 - FIRST FLOOR NEW WORK PLAN
P2.5	PHASE 2 - SECOND FLOOR NEW WORK PLAN
P3.1	DETAILS
P4.1	SOIL, WASTE, & VENT DIAGRAM

GENERAL NOTES - PLUMBING

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 VERSION OF THE OHIO BUILDINGS AND PLUMBING CODES, INCLUDING REFERENCED CODES AND STANDARDS.
- OBTAIN A PLUMBING PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- REMOVE ALL ABANDONED PIPING & SUPPORTS.
- SHUT DOWN OF DOMESTIC WATER SYSTEM SHALL BE SCHEDULED WITH THE OWNER.
- COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES. ACTUAL EQUIPMENT OR CABINERY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF FIRE WALLS AND SMOKE PARTITIONS. IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE. IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVED FIRE STOPPING PRODUCT, REFER TO SPECIFICATIONS.
- REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.
- ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHING, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRIC/GAS COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.

BUILDING SYSTEM OUTAGE NOTES

- DURING PHASE 1 AND PHASE 2 CONSTRUCTION WORK, THE BUILDING WILL REMAIN OCCUPIED BY THE OWNER FOR CONTINUED FIRE DEPARTMENT OPERATION.
- SHUTDOWN, TEMPORARY OUTAGES, CHANGEOVERS, ETC. OF BUILDING SYSTEMS SHALL BE COORDINATED WITH THE OWNER A MINIMUM OF 48 HOURS IN ADVANCE. BUILDING SYSTEMS SHALL BE RESTORED TO OPERATION IN A TIMELY MANNER. EXTEND DURATION OUTAGES OF BUILDING SYSTEMS CRITICAL FOR FIRE DEPARTMENT OPERATION ARE NOT ACCEPTABLE.

DRAIN SCHEDULE

TAG	MODEL NUMBER	BODY		OUTLET		TOP/STRAINER				FEATURES				NOTES							
		MATERIAL	SIZE	BOTTOM	SIZE	ADJUSTABLE	DOVE	FLAT	FUNNEL	MATERIAL	NO STRAINER	ANCHOR FLATE	FLASHING CLAMP		DBL. DRAINAGE	SED. BUCKET	BEARING PAN	U-DECK CLAMP	BOTTOM STRAINER	TRAP PRIMER CON.	TRAP SEAL - ASSE 1072
FD1	SIOUX CHIEF #863-435NQ	P	3"	•	7" SQ.	•	•	•	•	NB	•	•	•	•	•	•	•	•	•	•	
FS1	SIOUX CHIEF #861-3PD2	P	3"	•	11" SQ.	•	•	•	•	P	•	•	•	•	•	•	•	•	•	•	
RD	ZURN #ZC100F-4NH-EA-DP	CI	4"	•	12 5/16" DIA.	•	•	•	•	CI	•	•	•	•	•	•	•	•	•	•	
SRD	ZURN #ZC100F-4NH-EA-DP	CI	4"	•	12 5/16" DIA.	•	•	•	•	CI	•	•	•	•	•	•	•	•	•	•	1
CQ	ZURN #ZN1400-K		NOTE 2			•	•	•	•		•	•	•	•	•	•	•	•	•	•	2
WCO	ZURN #Z1446-NH-VP	CI	NOTE 2			•	•	•	•		•	•	•	•	•	•	•	•	•	•	2
SSQ	ZURN #Z199		NOTE 2																		2, 3

NOTES:
 1. SECONDARY STORM DRAIN. PROVIDE 2" DAM ON FIXTURE.
 2. SIZE TO MATCH CONNECTED SYSTEM PIPE DIAMETER.
 3. COLOR SELECTED BY ARCHITECT.

PIPE INSULATION SCHEDULE - PLUMBING

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
DOMESTIC COLD WATER 1.5" & SMALLER	0.5"	F1	INTERIOR
DOMESTIC COLD WATER 2" & LARGER	1"	F1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.25" AND SMALLER	1"	F1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.5" AND LARGER	1.5"	F1	INTERIOR
INTERIOR HORIZONTAL STORM DRAINAGE	1"	F1	INTERIOR
CONDENSATE DRAINAGE	1"	F1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS-CORNING SSL 11 WITH ASJ MAX JACKET	- KNAUF - JOHNS MANVILLE - CERTAIN TEED	* INORGANIC GLASS FIBER WITH RESIN BONDING. * K=0.24 @ 100 DEG. F. * 3.5 - 5.5 PPF. * PREFORMED TUBULAR. * WHITE FSRK JACKET. * LONGITUDINAL LAP WITH SELF-SEALING ADHESIVE. * ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.

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 EXPIRATION DATE 12/31/2025

Renovation and Addition
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 7435 Old Troy Pike, Dayton, Ohio 45424

NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

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LEGENDS & SCHEDULES

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 PROJECT # 24045

VALVE SCHEDULE

GENERAL NOTES FOR VALVES:

QUALITY ASSURANCE
VALVES SHALL COMPLY WITH ANSI, ASTM AND ASME.

VALVES ON DOMESTIC WATER SYSTEMS SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (53874) DEFINITION AND CONFORM TO NSF 61.

GROOVED END VALVES SHALL CONFORM TO ANSI/AWWA C-606.

PRODUCTS
WORKING PRESSURES SHALL EXCEED THOSE IMPOSED BY THE SERVICE APPLIED.

VALVES WHICH ARE INSULATED SHALL HAVE EXTENDED SHAFTS.

PROVIDE FLOW MEASURING GAUGES WITH COCKS, HOSES & CONNECTORS FOR BALANCING VALVES. PROVIDE METERING TOOL.

PROVIDE HOSE ADAPTORS ON DRAIN VALVES.

SWEAT END VALVES OF EQUAL CONSTRUCTION ARE ACCEPTABLE IN LIEU OF PRESS ENDS.

IN MECHANICALLY JOINED SYSTEMS, VALVES OF EQUAL CONSTRUCTION WITH COMPATIBLE ENDS ARE ACCEPTABLE AND MAY BE MANUFACTURED BY THE COUPLING MANUFACTURER.

VALVE MANUFACTURERS:
REFER TO SPECIFICATION.

EXECUTION
VALVES SHALL BE INSTALLED WITH STEM ABOVE CENTERLINE OF PIPE.

PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	LUB. PLUG
DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER		B11	C11		E11	
INTERIOR NATURAL GAS 3" AND SMALLER		B17				
INTERIOR NATURAL GAS 4" AND LARGER						P11
EXTERIOR NATURAL GAS 2" AND SMALLER		B18				P12
EXTERIOR NATURAL GAS 3" AND LARGER						P11, P12

TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
B11	NIBCO T-585-80-LF, 150 W.S.P. TWO-PIECE BRONZE BODY, PRESS ENDS, BRONZE BALL AND BRONZE STEM, TFE SEAT AND SEAL, HANDLE, NSF/ASME 61	C11	NIBCO T-413-Y-LF, 125 W.S.P. BRONZE BODY, PRESS ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT RING, NSF 61	E11	BELL & GOSSETT CB-1LF 400 PSI, BRONZE BODY WITH BRASS BALL, PRESS CONNECTION, READOUT & DRAIN PORTS, TFE SEATS, CALIBRATED NAMEPLATE, HANDLE WITH MEMORY STOP, NSF/ASME 61
B17	NIBCO T-FP-600A, 600 PSI NON-SHOCK COLD, 2 PIECE, BRASS BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.44	P11	NORDSTROM NO. 143, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH	P12	NORDSTROM NO. 115, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH ASME B16.33
B18	NIBCO T-585(OR 580)-70-UL, 600 PSI NON-SHOCK COLD, 2 PIECE, BRONZE BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.33				

PIPE HANGER SCHEDULE - PLUMBING

GENERAL NOTES FOR PIPE HANGERS:

DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND TEST WATER.

DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.

WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.

ATTACHMENT OF PIPE HANGER RODS TO THE STRUCTURE SHALL BE WITH:
1. PRE-SET CONCRETE INSERTS.
2. AFTER-SET STEEL EXPANSION TYPE CONCRETE INSERTS.
3. BEAM CLAMPS FOR STEEL CONSTRUCTION EQUAL TO ANVIL FIG. 92, 93, OR 94. UTILIZE SWIVEL TYPE IN SLOPED STEEL CONSTRUCTION TO PROVIDE VERTICAL SUPPORT OF PIPE WITHOUT BENDING HANGER RODS.
4. SIDE BEAM BRACKET FOR WOOD CONSTRUCTION EQUAL TO ANVIL FIG. 206.
5. CHANNEL SUPPORT SYSTEM EQUAL TO UNISTRUT OR HILTI.

ATTACHMENT TO MANUFACTURED TRUSSES AND OTHER ENGINEERED STRUCTURAL MEMBERS AND SUPPORTS SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR TYPE OF ENGINEERED STRUCTURAL SYSTEMS BEING USED. CONNECTIONS TO THESE STRUCTURAL MEMBERS SHALL BE MADE WITH CONNECTION DEVICES AND METHODS APPROVED BY THE STRUCTURAL MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS WITH SUPPLEMENTAL STEEL SHAPES WHEN SPACING BETWEEN STRUCTURAL MEMBERS EXCEEDS SPECIFIED DISTANCES.

ADJUST PIPE HANGERS TO PROPER ELEVATION AND SET HANGER RODS IN A VERTICAL POSITION BEFORE PIPE INSULATION IS INSTALLED.

THE FIRST TWO HANGERS ON PIPING CONNECTING TO MOTOR DRIVEN EQUIPMENT SHALL BE FITTED WITH A STEEL SPRING AND NEOPRENE VIBRATION ISOLATION SECTION SIMILAR TO MASON INDUSTRIES, NO. 30N.

TRAPEZE HANGERS FOR NUMEROUS PIPES RUN IN PARALLEL MAY BE UTILIZED. HORIZONTAL SUPPORT MEMBERS SHALL BE UNISTRUT TYPE SECTION WITH PIPE ROLLERS (TO ALLOW FOR EXPANSION TRAVEL) AND SPRING AND NUT CONNECTORS, SUSPENDED WITH HANGER RODS AND ATTACHMENTS SIMILAR TO INDIVIDUAL PIPE HANGER SUSPENSION.

SHORTENED EXTENDED LEGS OF PIPE RISER CLAMPS AS NEEDED TO MAINTAIN CONCEALMENT OF THE CLAMP WITHIN THE PIPE CHASE. INSURE THAT ADEQUATE SUPPORT IS STILL MAINTAINED.

HANGER ASSEMBLIES EXPOSED ON COMPLETION OF THE PROJECT SHALL BE PAINTED BEFORE INSTALLATION.

PIPE SUPPORTS FOR PIPE RUNNING ACROSS THE ROOF SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND AS DETAILED. INSTALL PROTECTIVE SLIP SHEETS OF ROOFING MEMBRANE UNDER THE BASES TO SATISFY REQUIREMENTS OF BOTH THE ROOFING MANUFACTURER AND THE SUPPORT SYSTEM MANUFACTURER.

IN PIPING SYSTEMS WITH MECHANICAL JOINT COUPLINGS, PIPE HANGERS SHALL BE PROVIDED ON HORIZONTAL PIPING AT NORMAL SPECIFIED INTERVALS AND, IN ADDITION, SO THAT NO PIPE SHALL BE LEFT UNSUPPORTED BETWEEN ANY TWO COUPLINGS NOR LEFT UNSUPPORTED WHENEVER A CHANGE IN DIRECTION TAKES PLACE. VERTICAL PIPING SHALL BE SUPPORTED AT NORMAL SPECIFIED INTERVALS OR EVERY OTHER PIPE LENGTH, WHICH EVER IS MORE FREQUENT. THE BASE OF THE RISER OR BASE FITTING SHALL BE SUPPORTED.

SYSTEM & SIZE	ORIENTATION & SIZE	SPACING
STEEL PIPING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 2" & SMALLER	8 FT.
	HORIZONTAL 2.5" - 6"	10 FT.
	HORIZONTAL 8" & LARGER	12 FT.
CAST IRON	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL	AT 10 FT. INTERVALS. SUPPORT EACH LENGTH OF PIPE NOT MORE THAN 18' FROM THE JOINT. SUPPORT TERMINAL ENDS OF HORIZONTAL RUNS AND BRANCHES AND EACH CHANGE IN DIRECTION. 5" AND LARGER PROVIDE BRACING TO PREVENT HORIZONTAL MOVEMENT IN ACCORDANCE WITH CISPI "SOIL PIPE AND FITTINGS HANDBOOK"
COPPER TUBING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 1.25" & SMALLER	6 FT.
	HORIZONTAL 1.5" - 2"	8 FT.
PLASTIC PIPING	VERTICAL	PER MANUFACTURER'S RECOMMENDATION
	HORIZONTAL	PER MANUFACTURER'S RECOMMENDATION

BUILDING SUPPLY SYSTEMS SCHEDULE WATER, COMPRESSED AIR, & GAS

GENERAL NOTES:

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

ALL COMPONENTS OF DOMESTIC WATER SYSTEMS (CW, HW, & HWR) SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (53874) DEFINITION AND CONFORM TO NSF 61.

PRODUCTS
DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.

GAS PRESSURE REGULATORS SHALL BE CAST IRON SELF-OPERATING SPRING LOADED TYPE. VALVE 125 PSI. SPRING AND DIAPHRAGM CASINGS SHALL BE ALUMINUM. REGULATOR SHALL HAVE AN INTERNAL RELIEF VALVE ASSEMBLY, TAPPED VENT CONNECTION WITH REMOVABLE SCREEN ON THE SPRING CASING AND AN EXTERNAL PILOT OPERATOR TO AFFORD A 5% MAXIMUM DROOP. OVER-PRESSURE PROTECTION SHALL BE TEN TIMES THE INLET PRESSURE (OR HIGHER AS MAY BE REQUIRED BY THE GAS COMPANY). FISHER TYPE S102 OR S202 OR EQUAL BY SPRAGUE OR EQUIVALENT.

UNIONS
COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS
THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS.

MECHANICALLY FORMED TEES AND COUPLINGS (T-DRILL) ARE NOT PERMITTED.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNUAL SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION, EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GAS PRESSURE REGULATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE VALVED GAUGE TAPS UPSTREAM AND DOWNSTREAM OF THE REGULATOR. VENT PIPING SHALL BE EXTENDED INDIVIDUALLY FROM EACH REGULATOR AND GAS VENTING DEVICE TO OUTSIDE THE BUILDING IN AN APPROVED LOCATION.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

CLEAN INTERIOR WATER PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.

ALL NEW AND EXISTING DOMESTIC WATER PIPING SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651-86. DOMESTIC WATER PIPING SHALL BE SANITIZED PRIOR TO PUTTING SYSTEM IN OPERATION BY A COMPANY OR PERSONNEL REGULARLY ENGAGED IN THE PERFORMANCE OF THIS SERVICE.

EXTERIOR NATURAL GAS PIPING SHALL BE PAINTED WITH 2 COATS OF EXTERIOR GRADE PAINT FOR PROTECTION.

TESTING
DOMESTIC WATER PIPING - 125 PSI FOR MIN. 6 HOURS AT THE LOW POINT IN THE SYSTEM.
COMPRESSED AIR PIPING - 200 PSI FOR 6 HOURS.
NATURAL GAS PIPING - 100 PSI COMPRESSED AIR FOR 6 HOURS.

PIPING SYSTEM	TYPE
DOMESTIC COLD, HOT AND RECIRCULATING WATER	C1, C5
NATURAL GAS ABOVE GROUND AT PRESSURES 2 PSI & LESS	S1, S2
MISCELLANEOUS UNDERGROUND NATURAL GAS (OUTSIDE OF BUILDING)	PE1

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	S1	WELDED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M 150 LB. C.I. FITTINGS
C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS	S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS
		PE1	POLYETHYLENE PE 2306, 2406 TYPE II GRADE 3, PE 3406, 3408 TYPE III, ASTM D2513 HEAT FUSION JOINTS

BUILDING DRAIN SYSTEMS SCHEDULE STORM, SANITARY, & VENT

GENERAL NOTES:

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

ON PIPING 5" AND LARGER PROVIDE BRACING AT EVERY BRANCH OPENING OR CHANGE IN DIRECTION AS REQUIRED BY CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

INSTALL PVC SOIL AND WASTE DRAINAGE AND VENT PIPING ACCORDING TO ASTM D 2665.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNUAL SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION, EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

LAY BURIED BUILDING DRAINAGE PIPING BEGINNING AT LOW POINT OF EACH SYSTEM. INSTALL TRUE TO GRADES AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

SLOPE DRAINAGE PIPING AT 1/4" PER FOOT (2%) FOR PIPING SMALLER THAN 3" AND 1/8" PER FOOT (1%) FOR PIPING 3" AND LARGER.

VENT PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

COUPLINGS AND GASKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG-SWEEP STENKS. SANITARY TEES AND SHORT-SWEEP 1/4 BENDS MAY BE USED ON VERTICAL STACKS IF CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL.

DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.

TESTING
PIPING SHALL BE TESTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

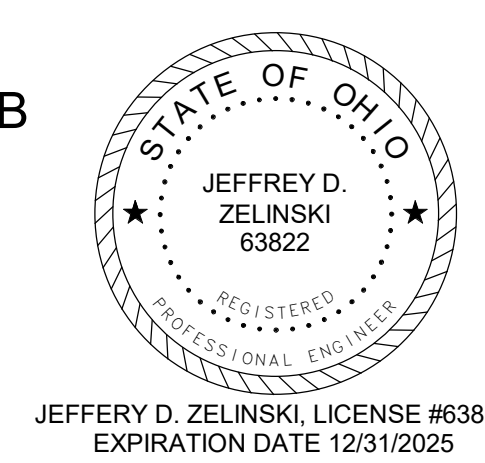
PIPING SYSTEM	TYPE
SANITARY PIPING BELOW FLOOR SLAB IN GRADE	P1
SANITARY & VENT PIPING ABOVE THE FLOOR	C11
STORM DRAINAGE BELOW THE FLOOR IN SLAB	P1
INDIRECT DRAINS/CONDENSATE DRAIN LINES 1" & SMALLER	C1, C5
STORM DRAINAGE ABOVE FLOOR	C11

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C11	NO-HUB CAST IRON (STD) SERVICE WEIGHT ASTM A888 OR CISPI 301 SHELDED COUPLINGS ASTM C1277 OR CISPI 310 RUBBER SLEEVE ASTM C564	P1	PVC SCHEDULE 40 PVC ASTM D2665 AND D2321 DWV FITTINGS, ASTM D3311 GLUED JOINTS
C1	SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE DWV FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS

NOTE:
PVC PIPING SHALL NOT BE USED IN PLENUMS.

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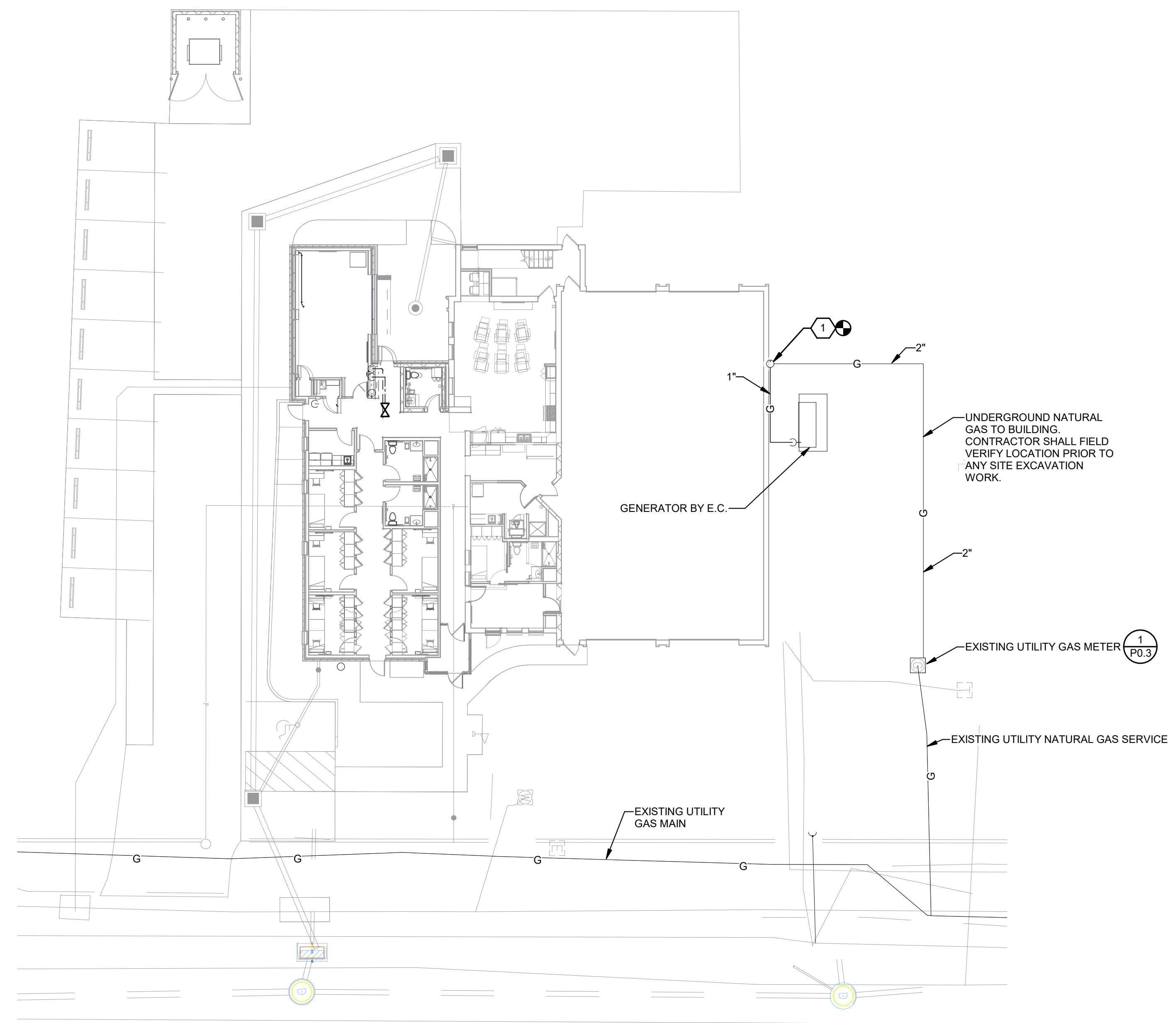
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- CONSTRUCTION NOTES**
1. REMOVE EXISTING GENERATOR GAS SERVICE TO RISER. REPLACE BRANCH TEE WITH NEW 2"x2"x1" TEE AND RUN NEW 1" GAS PIPE TO NEW GENERATOR.
 2. VERIFY WITH MANUFACTURER EXISTING REGULATOR CAPACITY. PROVIDE NEW REGULATOR FOR NEW GAS LOAD IF REQUIRED.
 3. NEW GAS REGULATOR.
 4. SECURE PIPE TO EXTERIOR WALL.
 5. METER REPLACED BY UTILITY PURVEYOR.

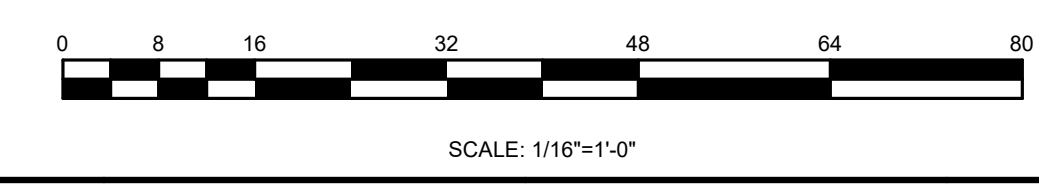
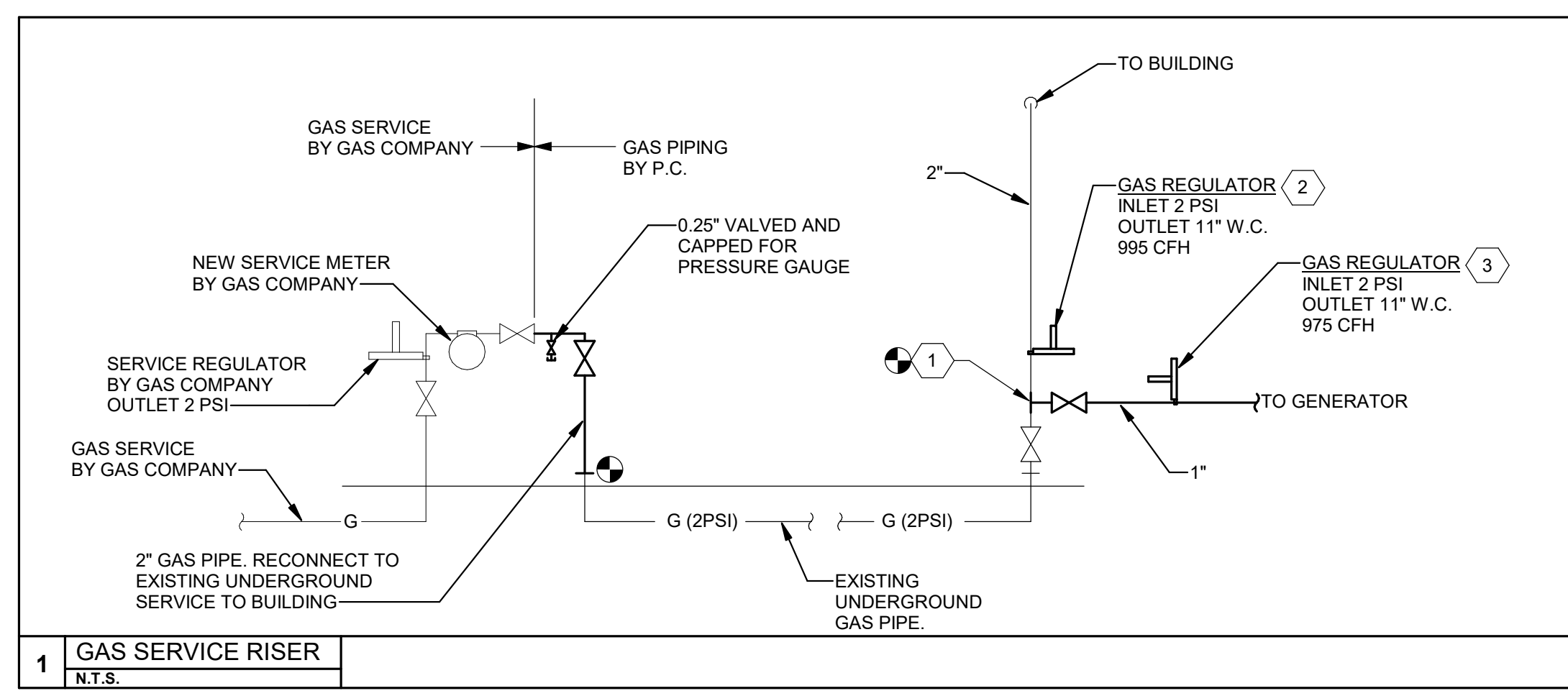


SITE PLAN
SCALE: 1/16" = 1'-0"

GAS LOAD SCHEDULE

GENERAL NOTES
 • PIPING SIZED USING THE LONGEST LENGTH METHOD.
 • LOW PRESSURE (7" W.C.) GAS PIPING SIZED USING TABLE 402.4(3) OF THE 2021 IFC.

ITEM	LOAD	
GENERATOR (NEW)	975	CFH
FC-1 (NEW)	80	CFH
FURNACE (EXISTING)	120	CFH
FURNACE (EXISTING)	120	CFH
GAS COOKTOP (NEW)	220	CFH
GAS GRILLE (EXISTING)	75	CFH
RADIANT HEATERS (EXISTING)	300	CFH
WATER HEATER (EXISTING)	80	CFH



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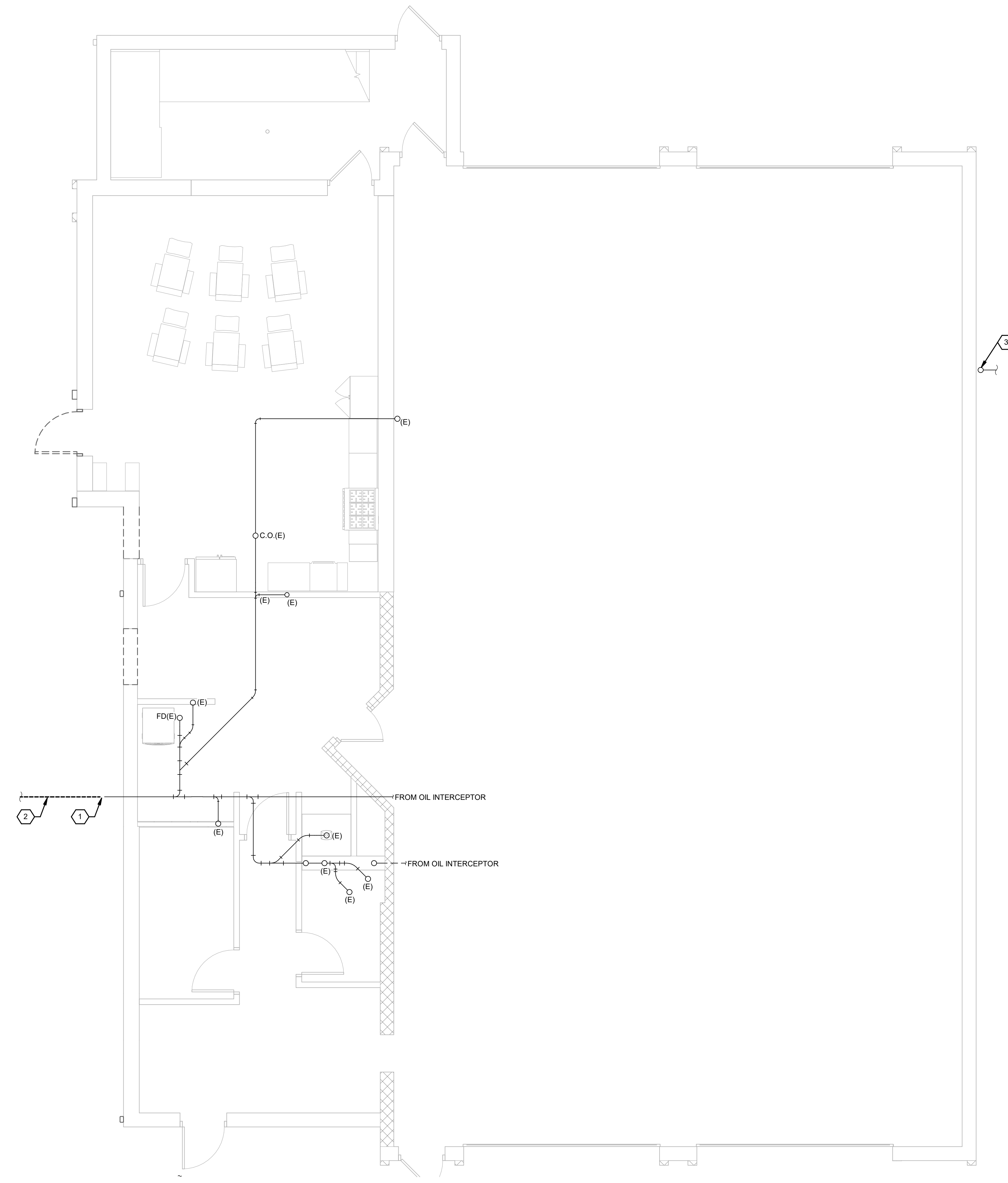
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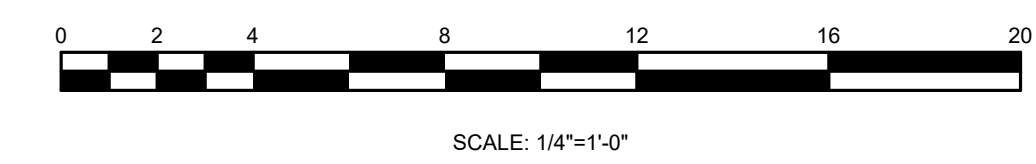
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CONSTRUCTION NOTES

1. NEW SANITARY MAIN LATERAL INSTALLED UNDER PHASE 1. DISCONNECT PIPE UNDER NEW BUILDING SLAB TO FACILITATE CHANGEOVER. REFER TO P1.3.
2. REMOVAL OF EXISTING SITE SANITARY PIPE BY SITE CIVIL CONTRACTOR.
3. NATURAL GAS. REFER TO SITE PLAN.



UNDERSLAB DEMOLITION PLAN - PHASE 1
 SCALE: 1/4" = 1'-0"



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PHASE 1 - UNDERSLAB DEMOLITION PLAN

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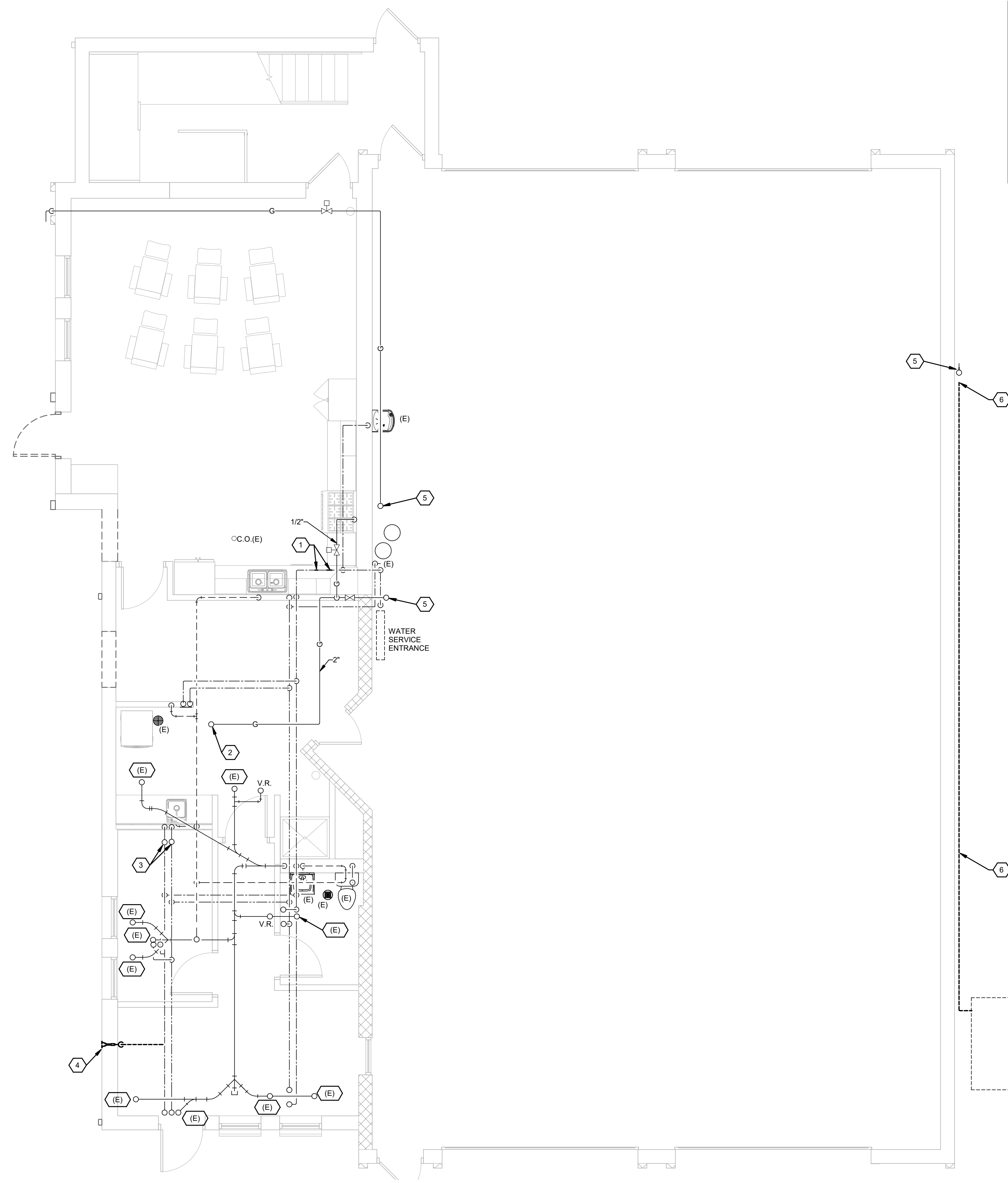
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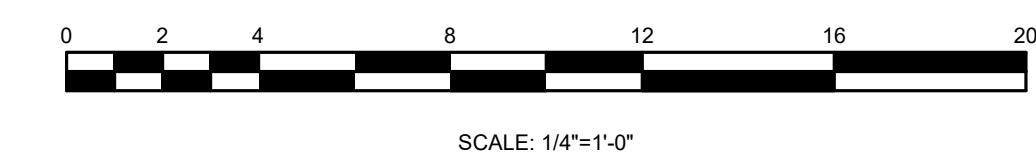
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- CONSTRUCTION NOTES**
- SECTION OF DOMESTIC COLD WATER MAIN REMOVED FOR PHASE 1 WORK. REFER TO P1.4.
 - UP TO MECHANICAL ROOM.
 - COLD AND HOT WATER HEATER IN MECHANICAL ROOM.
 - REMOVE WALL HYDRANT. PATCH WALL TO MATCH EXISTING CONSTRUCTION.
 - REFER TO P1.2 FOR CONTINUATION.
 - REMOVE EXISTING NATURAL GAS SERVICE TO GENERATOR BACK TO RISER. REFER TO P0.3 AND P1.4.
 - DISCONNECT NATURAL GAS FROM GENERATOR. GENERATOR TO BE REMOVED BY OWNER.



FIRST FLOOR DEMOLITION PLAN - PHASE 1
 SCALE: 1/4" = 1'-0"



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 7435 Old Troy Pike, Dayton, Ohio 45424

ISSUE

NO.	DATE	DESCRIPTION
12/18/2024	FOR CONSTRUCTION	

DATE	12/13/2024
JOB NO.	4262.00
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CHECKED	JDZ

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 TITLE
PHASE 1 - FIRST FLOOR DEMOLITION PLAN

SHEET NO.
P1.1

1 | 2 | 3 | 4 | 5 | 6 | 7

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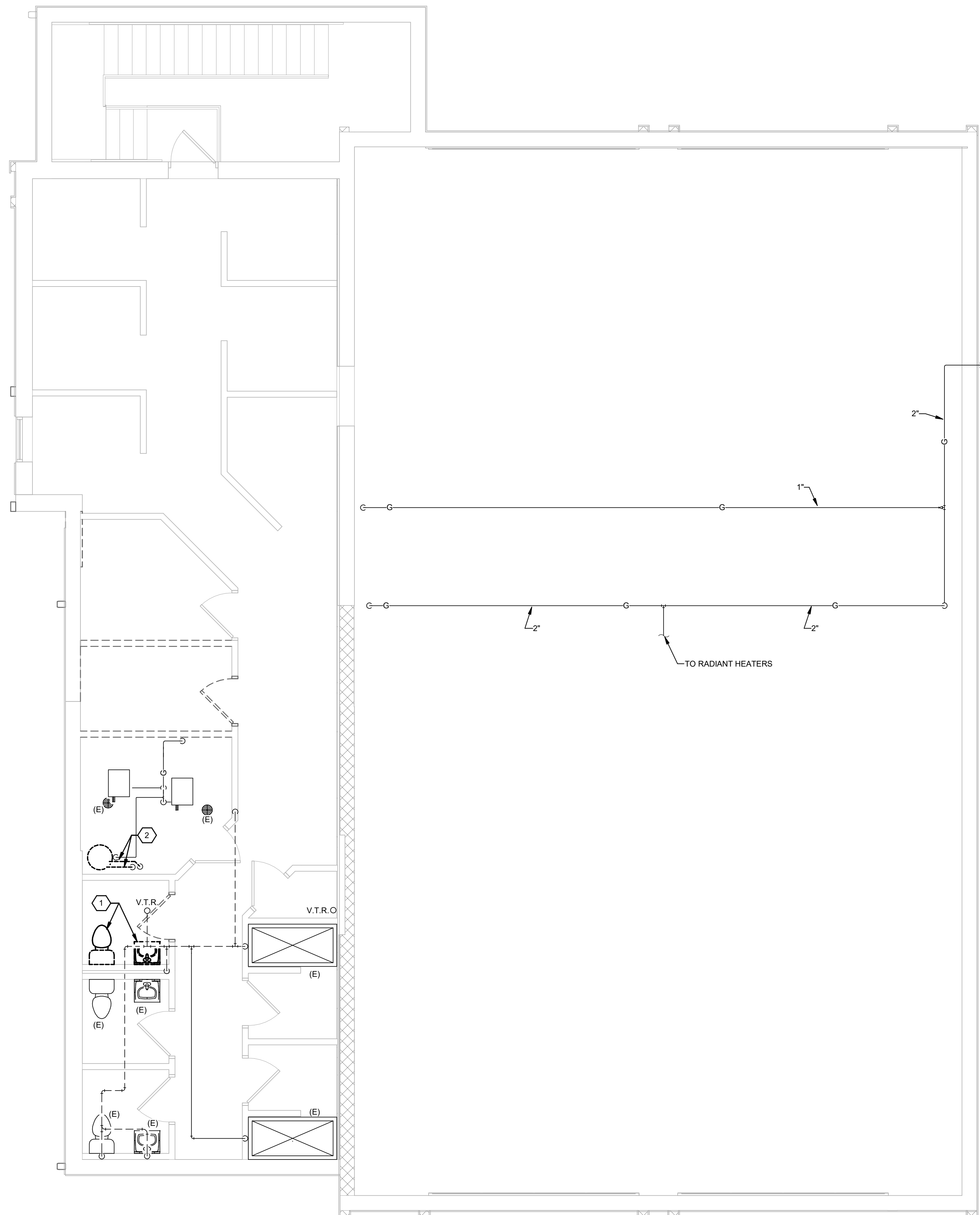
B

C

D

E

F



- CONSTRUCTION NOTES**
1. REMOVE PLUMBING FIXTURES AND ROUGH-IN APART OF PHASE 1 TO CREATE NEW IT ROOM.
 2. EXISTING HOT WATER HEATER SERVICE PIPING REMOVED UNDER PHASE 1. REFER TO P1.5 FOR ADDITIONAL INFORMATION. CAP PIPE IN MECHANICAL ROOM. PIPING REMOVED UNDER PHASE 2 WORK.
 3. REMOVE AND REPLACE WATER HEATER. WORK SHALL OCCUR WHEN CHANGE OVER TO NEW DOMESTIC WATER SERVICE OCCURS. REFER TO P1.5.

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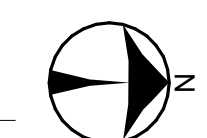
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PHASE 1 - SECOND FLOOR DEMOLITION PLAN

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P1.2

SECOND FLOOR DEMOLITION PLAN - PHASE 1
SCALE: 1/4" = 1'-0"



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CONSTRUCTION NOTES

1. WYE CLEANOUT AND TEST PLUG.
2. INVERT SUBJECT TO CHANGE BASED ON DEPTH OF EXISTING SANITARY MAIN LEAVING SOUTH SIDE OF BUILDING.
3. INSTALL NEW SANITARY MAIN DURING START OF PHASE 1 CONSTRUCTION. TIE INTO EXISTING SANITARY LEAVING BUILDING. COORDINATE SHUTDOWN WITH OWNER.
4. PROVIDE 4" TEE TO TIE IN ADDITION PLUMBING FIXTURES.
5. UNDERGROUND FIRE SERVICE BY SITE CIVIL CONTRACTOR.
6. NATURAL GAS. REFER TO P0.3.

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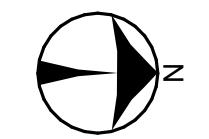
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**PHASE 1 - UNDERSLAB
NEW WORK PLAN**

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P1.3

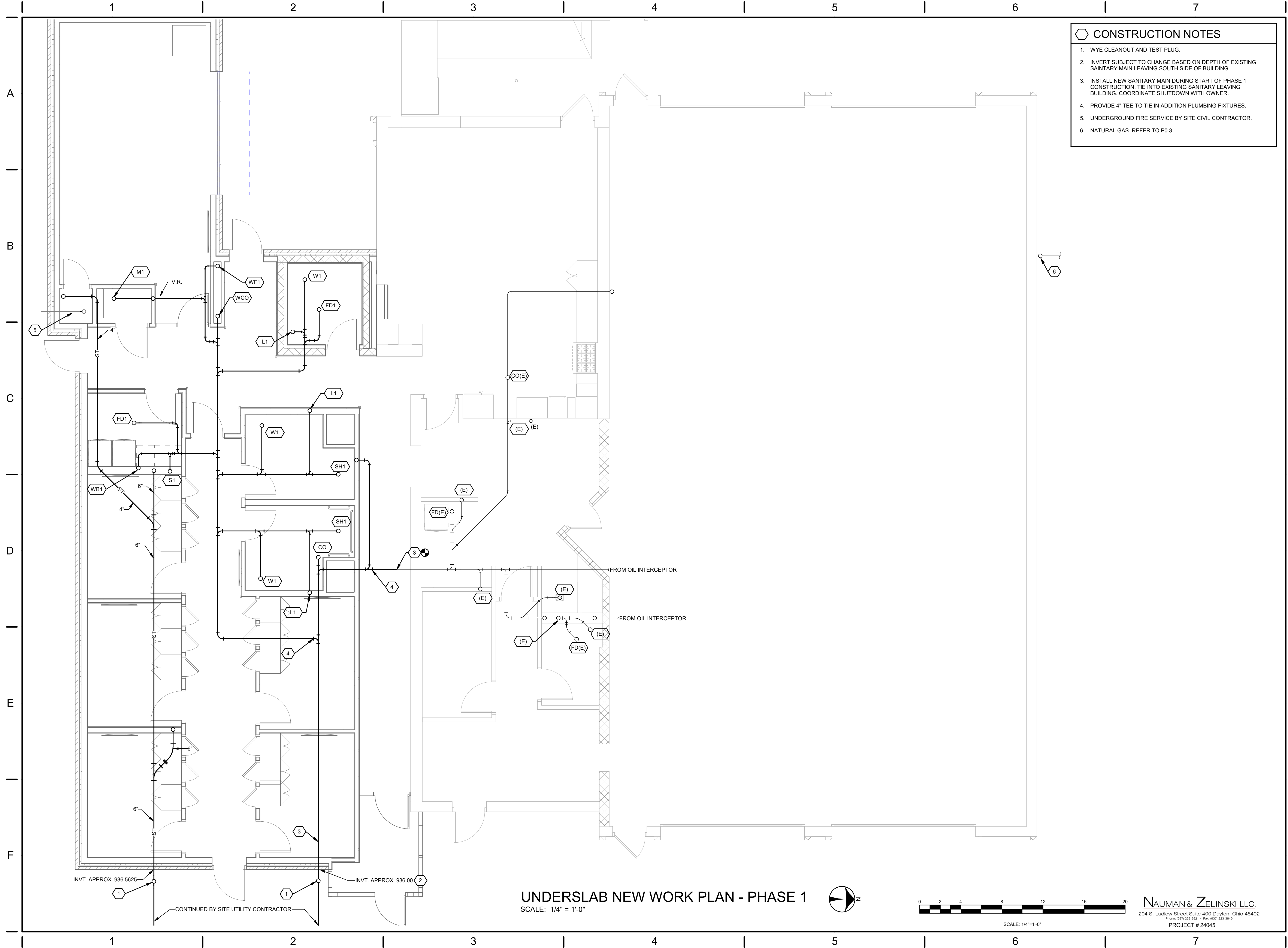
UNDERSLAB NEW WORK PLAN - PHASE 1
SCALE: 1/4" = 1'-0"



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

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CONSTRUCTION NOTES

1. COORDINATE WITH OWNER TO HAVE TEMPORARY SHUTDOWN OF DOMESTIC WATER TO INSTALL SHUT-OFF VALVES.
2. COORDINATE TIME TO INSTALL DOMESTIC COLD WATER MAIN SERVICE TO NEW ADDITION. COORDINATE WITH THE G.C. TO REMOVE AND REINSTALL EXISTING KITCHEN CEILING TO INSTALL NEW PIPING.
3. PROVIDE SHUT-OFF VALVE AND CAP FOR FUTURE, PHASE 2 CONNECTION.
4. PIPING UP THROUGH ROOF DOGHOUSE TO PENTHOUSE. REFER TO P1.5.
5. PROVIDE PLUG ON 6" DIAMETER TEE END.
6. CLEAN OUT AND TEST PLUG.
7. REFER TO P1.5 FOR CONTINUATION.
8. REFER TO DETAIL 1, P0.3 FOR GAS PIPING WORK.
9. 6"x6"x4" TEE. 4" BRANCH END TO ROOF DRAIN. CAP 6" OPEN END PER CONSTRUCTION NOTE 5.
10. 4"x4"x4" TEE. PLUG OPEN END.
11. BALANCE TO 1.1 GPM.
12. INSTALL CLEANOUT IN 8" X 8" X 4" THICK CONCRETE PAD.

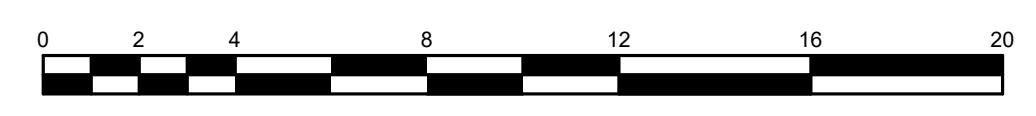
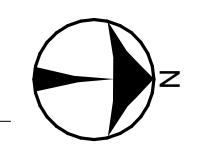
STORM SHELTER NOTES

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/2" IN DIAMETER SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PROTECTIVE DEVICES.

WATER NOTE
 SHELTER CAPACITY IS 6 PEOPLE. ONE WATER CLOSET IS REQUIRED. THE LAVATORY IS NOT REQUIRED. HAND SANITIZER WILL BE STORED BY THE OWNER.

BASED ON 3 WATER CLOSET USES PER 8 HOUR PERIOD (FROM I.E.D.), IN A 2 HOUR PERIOD THAT WOULD EQUAL 34 USES PER PERSON. FOR 6 PEOPLE, 5 FLUSHES WOULD BE REQUIRED. THE WATER CLOSET TANK WILL BE FILLED UPON ENTRY INTO THE SHELTER. SO ENOUGH WATER FOR 4 FLUSHES IS REQUIRED TO BE STORED IN THE SHELTER. AT 1.6 GALLONS PER FLUSH THAT WILL REQUIRE 8.4 GALLONS MINIMUM BE STORED FOR WATER CLOSET USAGE. ADDITIONAL POTABLE WATER SHALL BE STORED FOR DRINKING. INCLUDE THESE REQUIREMENTS IN THE OWNER'S INSTRUCTIONS.

FIRST FLOOR NEW WORK PLAN - PHASE 1
 SCALE: 1/4" = 1'-0"



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

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**PHASE 1 - FIRST FLOOR
 NEW WORK PLAN**

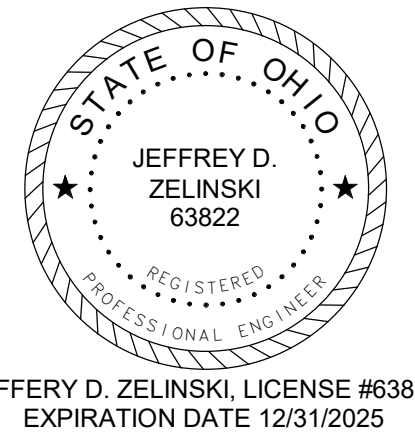
SHEET NO.
P1.4

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- CONSTRUCTION NOTES**
1. NEW HOT WATER HEATER. HOT WATER HEATER SHALL BE CONNECTED TO NEW DOMESTIC COLD, HOT AND HOT WATER RETURN PIPING INSTALLED UNDER PHASE 1. REFER TO DETAIL. COORDINATE WORK WITH OCCUPANCY SHIFT AT END OF PHASE 1.
 2. 2" COLD, 2" HOT, 3/4" HOT WATER RETURN RUN ON WALL FACE.
 3. PROVIDE VANDAL PROOF VENT CAP ON SIDEWALL VENT. EQUAL TO ZURN #Z193.
 4. REFER TO DRAWING P0.3 FOR CONTINUATION.
 5. NATURAL GAS UP FROM FLOOR BELOW, REFER TO P1.4.
 6. EXTEND 1/2" COLD WATER LINE TO RECONNECT EXISTING FLOOR DRAIN TRAP PRIMERS. REFER TO DETAIL 7, P3.1.

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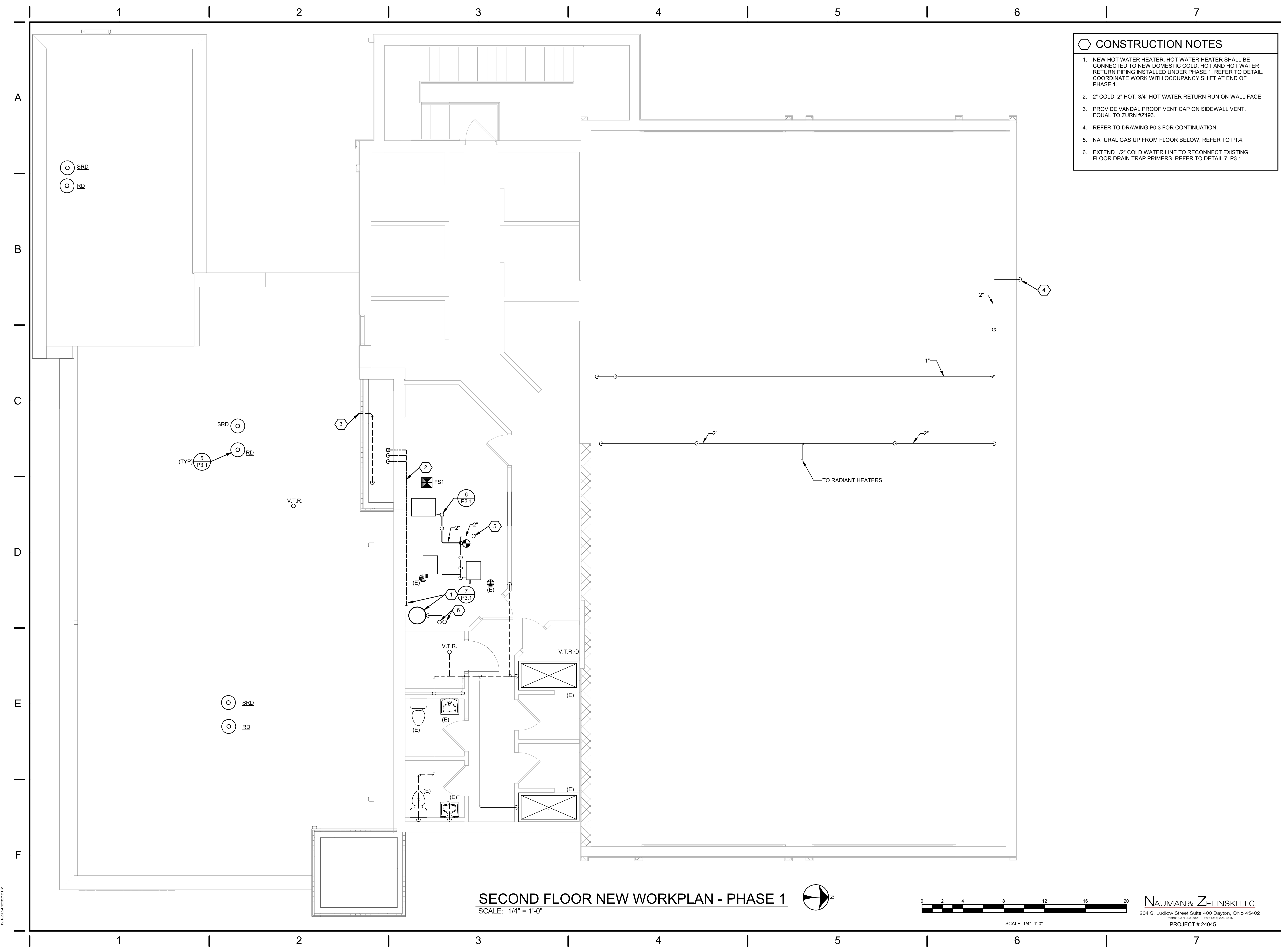
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PHASE 1 - SECOND FLOOR NEW WORK PLAN

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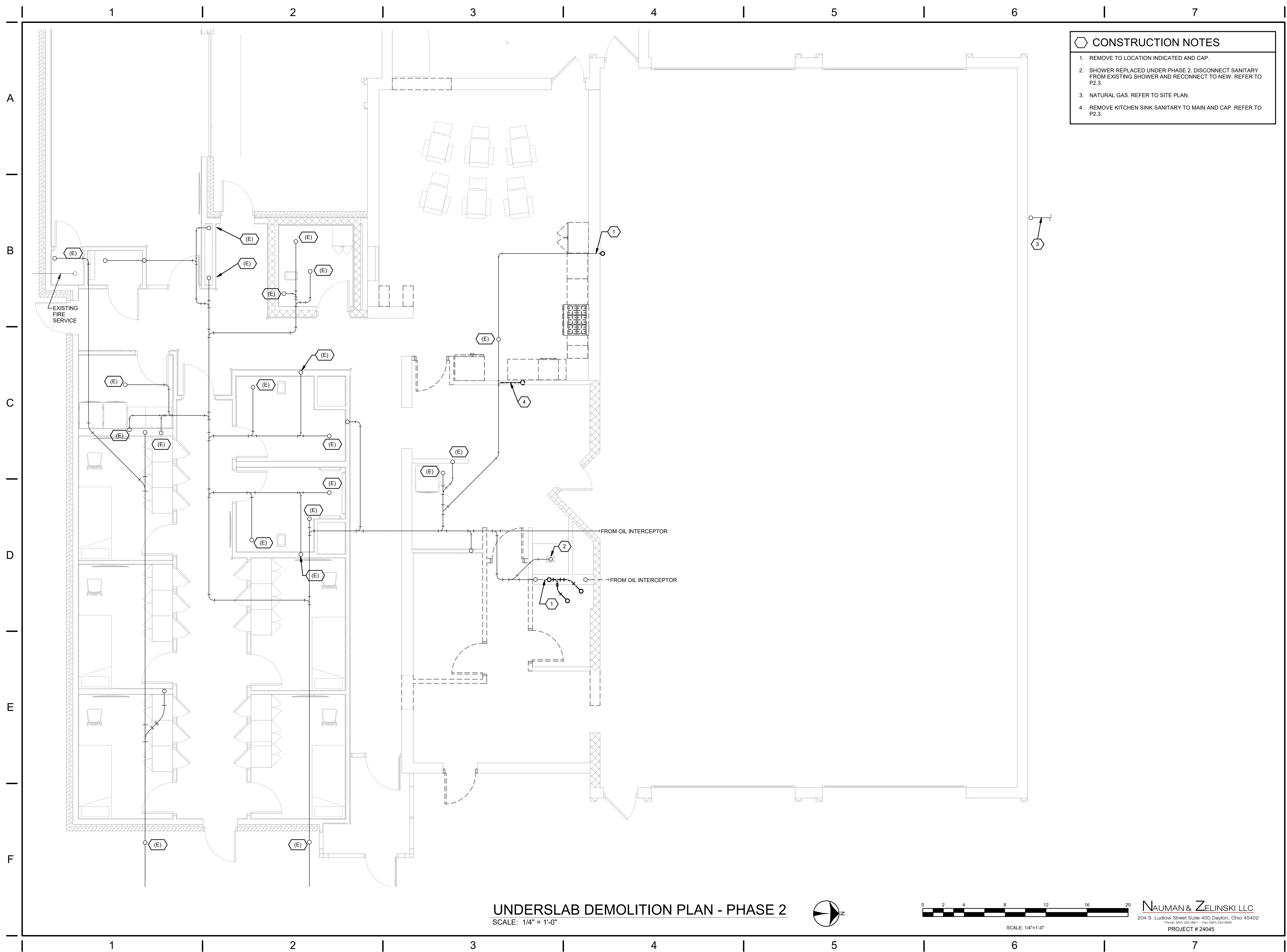


SECOND FLOOR NEW WORKPLAN - PHASE 1
SCALE: 1/4" = 1'-0"



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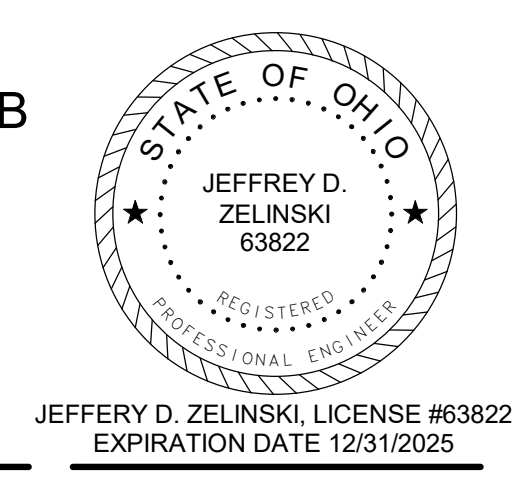
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- CONSTRUCTION NOTES**
1. REMOVE TO LOCATION INDICATED AND CAP.
 2. SHOWER REPLACED UNDER PHASE 2. DISCONNECT SANITARY FROM EXISTING SHOWER AND RECONNECT TO NEW. REFER TO P2.3.
 3. NATURAL GAS. REFER TO SITE PLAN.
 4. REMOVE KITCHEN SINK SANITARY TO MAIN AND CAP. REFER TO P2.3.

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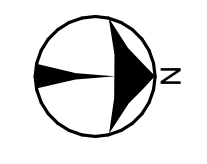
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TITLE PHASE 2 - UNDERSLAB DEMOLITION PLAN	

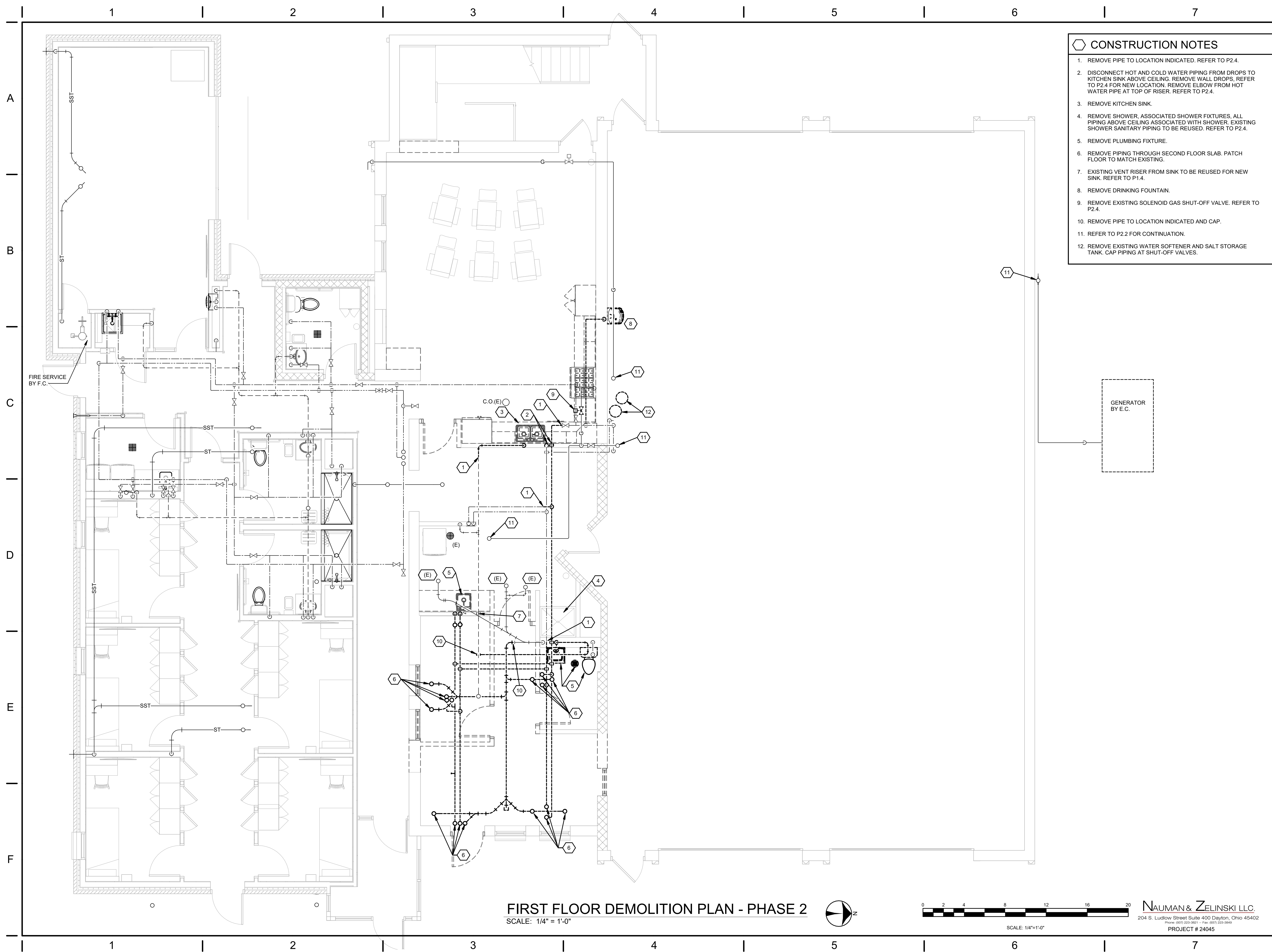
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UNDERSLAB DEMOLITION PLAN - PHASE 2
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- CONSTRUCTION NOTES**
1. REMOVE PIPE TO LOCATION INDICATED. REFER TO P2.4.
 2. DISCONNECT HOT AND COLD WATER PIPING FROM DROPS TO KITCHEN SINK ABOVE CEILING. REMOVE WALL DROPS. REFER TO P2.4 FOR NEW LOCATION. REMOVE ELBOW FROM HOT WATER PIPE AT TOP OF RISER. REFER TO P2.4.
 3. REMOVE KITCHEN SINK.
 4. REMOVE SHOWER, ASSOCIATED SHOWER FIXTURES. ALL PIPING ABOVE CEILING ASSOCIATED WITH SHOWER. EXISTING SHOWER SANITARY PIPING TO BE REUSED. REFER TO P2.4.
 5. REMOVE PLUMBING FIXTURE.
 6. REMOVE PIPING THROUGH SECOND FLOOR SLAB. PATCH FLOOR TO MATCH EXISTING.
 7. EXISTING VENT RISER FROM SINK TO BE REUSED FOR NEW SINK. REFER TO P1.4.
 8. REMOVE DRINKING FOUNTAIN.
 9. REMOVE EXISTING SOLENOID GAS SHUT-OFF VALVE. REFER TO P2.4.
 10. REMOVE PIPE TO LOCATION INDICATED AND CAP.
 11. REFER TO P2.2 FOR CONTINUATION.
 12. REMOVE EXISTING WATER SOFTENER AND SALT STORAGE TANK. CAP PIPING AT SHUT-OFF VALVES.

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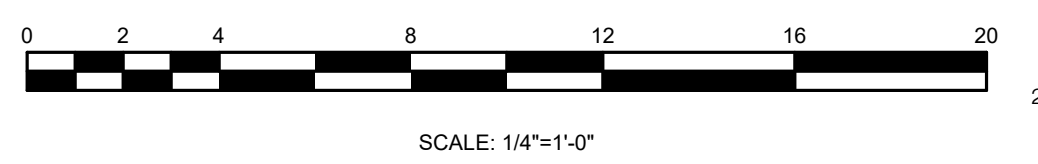
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TITLE PHASE 2 - FIRST FLOOR DEMOLITION PLAN	

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FIRST FLOOR DEMOLITION PLAN - PHASE 2
SCALE: 1/4" = 1'-0"



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- CONSTRUCTION NOTES**
1. REMOVE PIPING THROUGH FLOOR. PATCH TO MATCH EXISTING CONSTRUCTION.
 2. REMOVE FIXTURE.
 3. REMOVE PIPE TO LOCATION INDICATED AND CAP.

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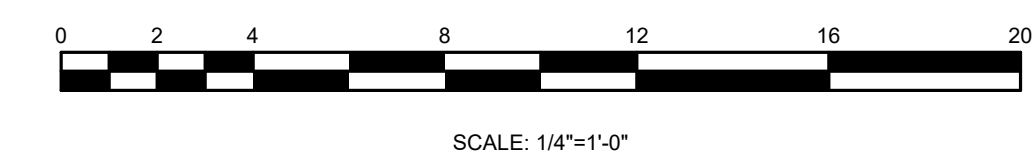
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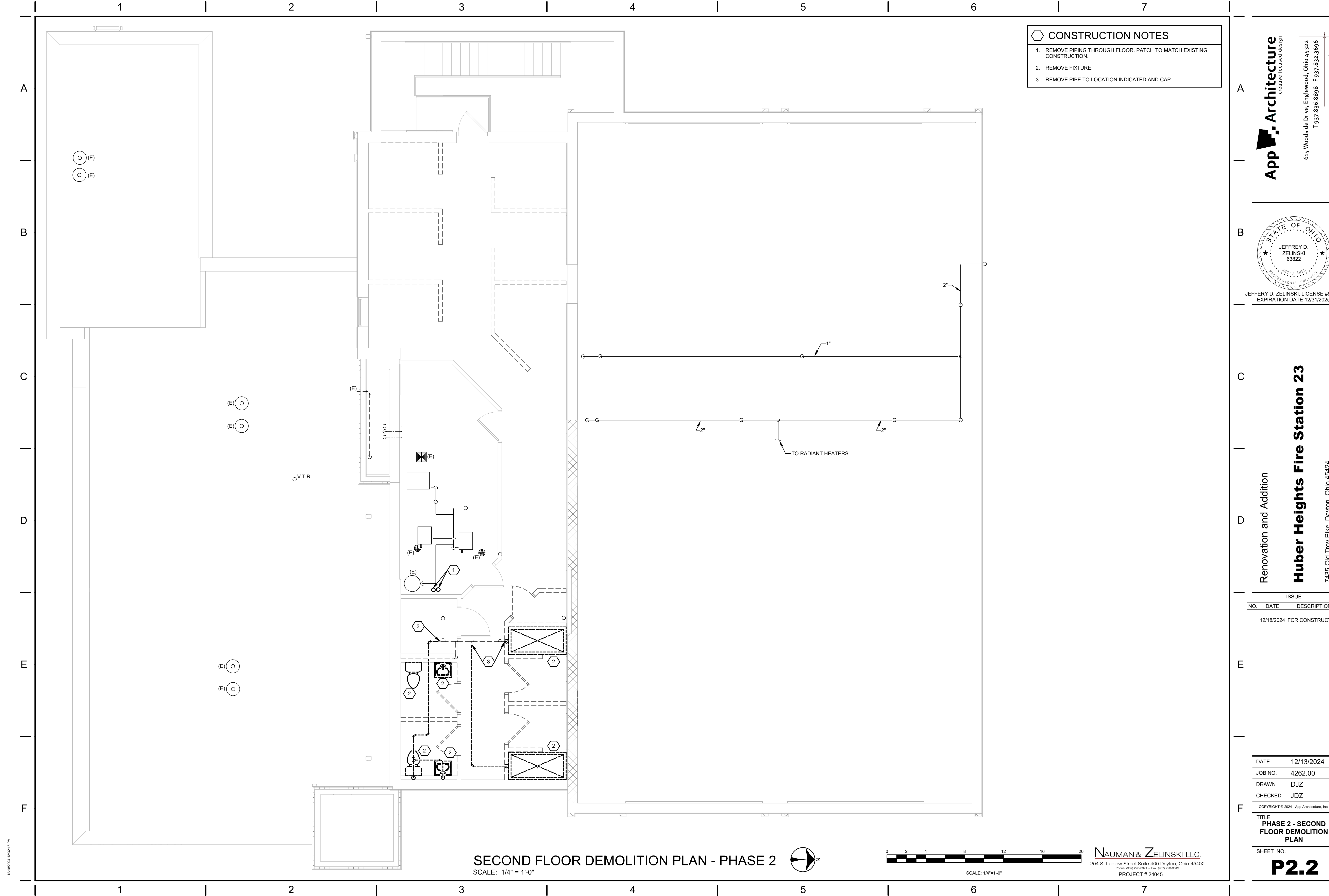
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SECOND FLOOR DEMOLITION PLAN - PHASE 2
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CONSTRUCTION NOTES

1. MODIFY AND CONNECT EXISTING SANITARY TO NEW SHOWER PROVIDED BY ARCHITECT.
2. NATURAL GAS. REFER TO SITE PLAN.

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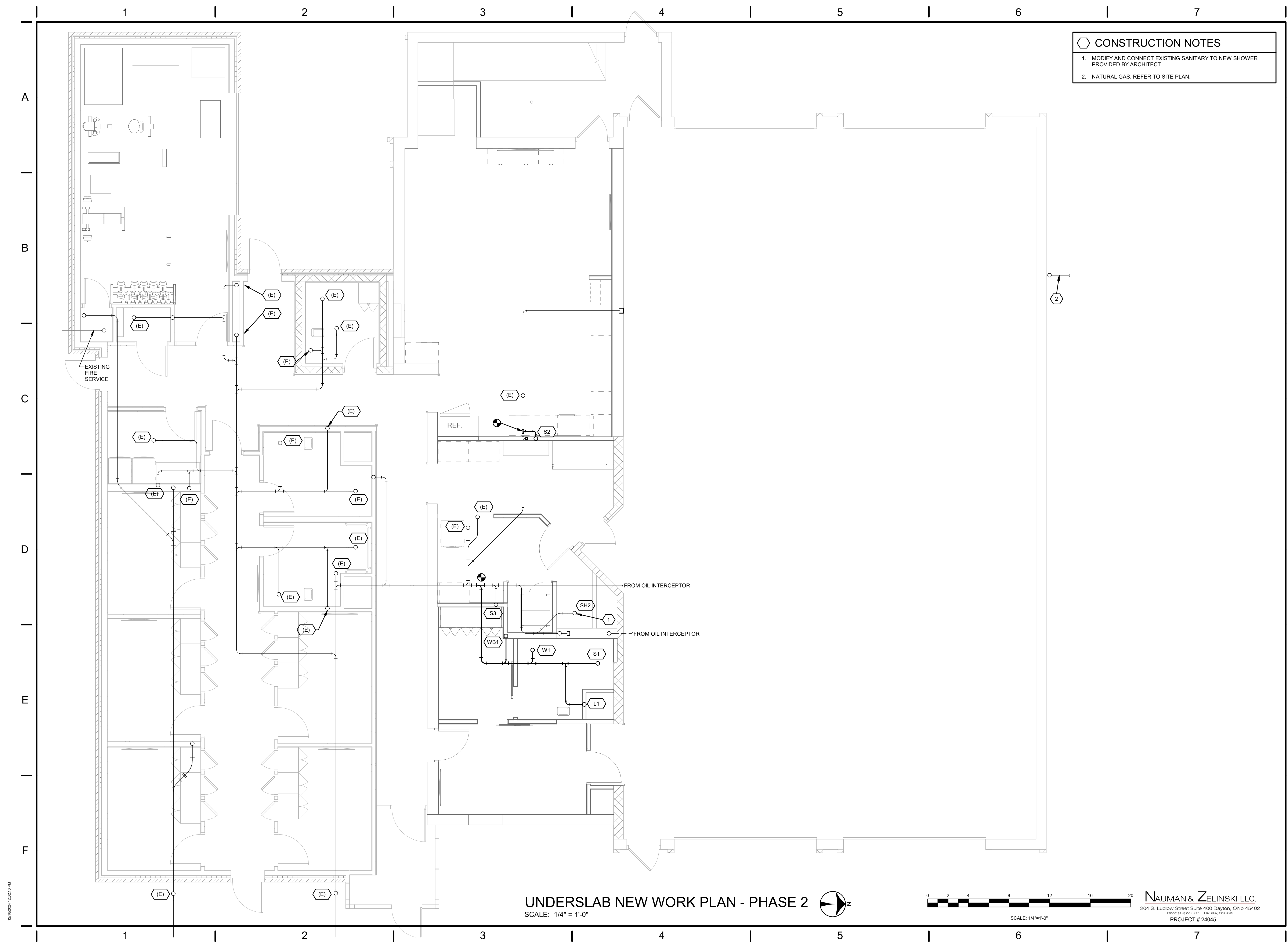
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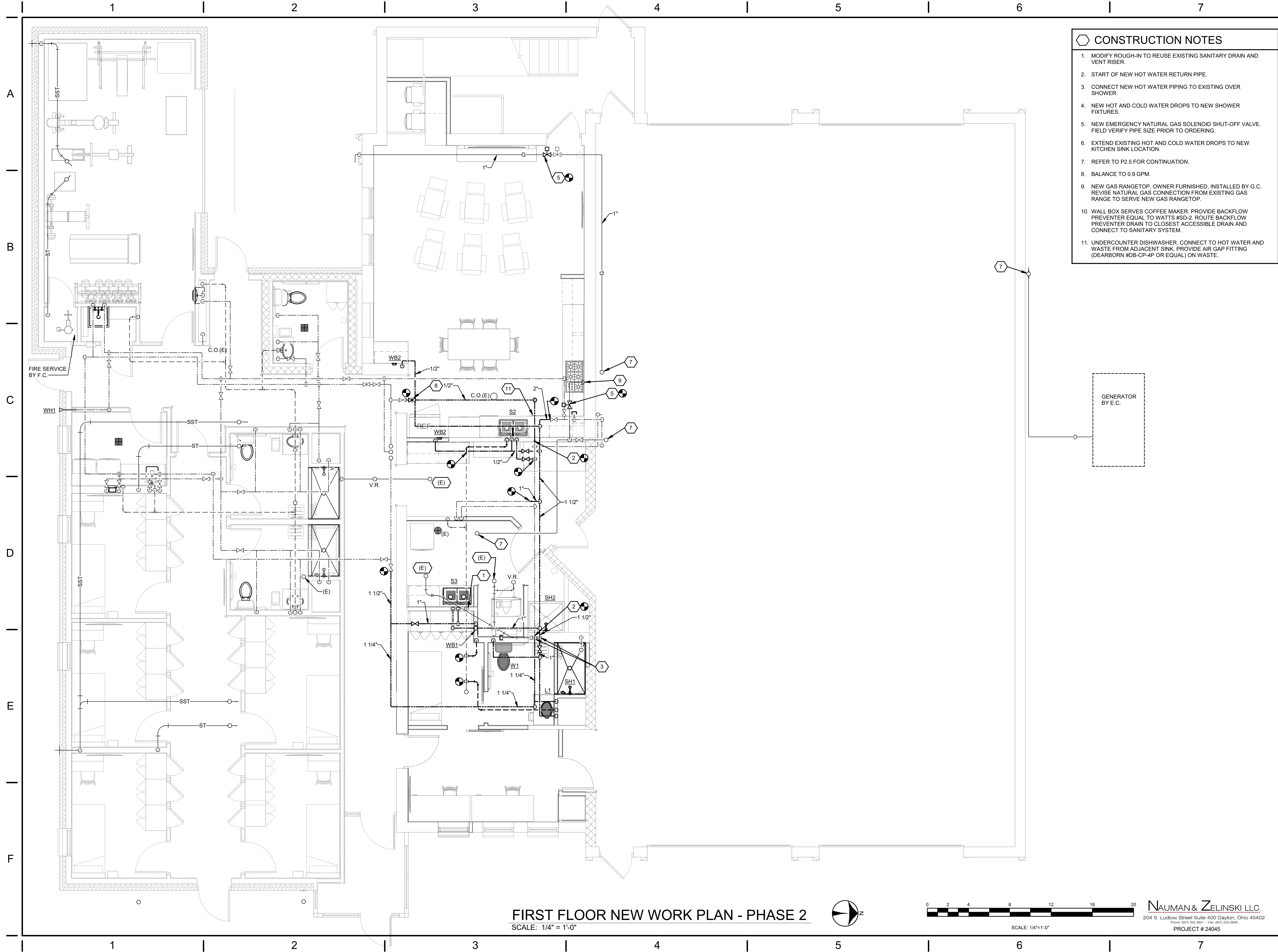
UNDERSLAB NEW WORK PLAN - PHASE 2
SCALE: 1/4" = 1'-0"



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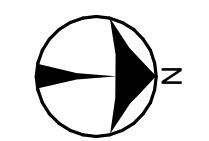
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- CONSTRUCTION NOTES**
1. MODIFY ROUGH-IN TO REUSE EXISTING SANITARY DRAIN AND VENT RISER.
 2. START OF NEW HOT WATER RETURN PIPE.
 3. CONNECT NEW HOT WATER PIPING TO EXISTING OVER SHOWER.
 4. NEW HOT AND COLD WATER DROPS TO NEW SHOWER FIXTURES.
 5. NEW EMERGENCY NATURAL GAS SOLENOID SHUT-OFF VALVE. FIELD VERIFY PIPE SIZE PRIOR TO ORDERING.
 6. EXTEND EXISTING HOT AND COLD WATER DROPS TO NEW KITCHEN SINK LOCATION.
 7. REFER TO P2.5 FOR CONTINUATION.
 8. BALANCE TO 0.9 GPM.
 9. NEW GAS RANGETOP, OWNER FURNISHED, INSTALLED BY G.C. REVISE NATURAL GAS CONNECTION FROM EXISTING GAS RANGE TO SERVE NEW GAS RANGETOP.
 10. WALL BOX SERVES COFFEE MAKER. PROVIDE BACKFLOW PREVENTER EQUAL TO WATTS #SD-2. ROUTE BACKFLOW PREVENTER DRAIN TO CLOSEST ACCESSIBLE DRAIN AND CONNECT TO SANITARY SYSTEM.
 11. UNDERCOUNTER DISHWASHER. CONNECT TO HOT WATER AND WASTE FROM ADJACENT SINK. PROVIDE AIR GAP FITTING (DEARBORN #DB-CP-4P OR EQUAL) ON WASTE.

GENERATOR
BY E.C.

FIRST FLOOR NEW WORK PLAN - PHASE 2
SCALE: 1/4" = 1'-0"



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**PHASE 2 - FIRST FLOOR
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CONSTRUCTION NOTES

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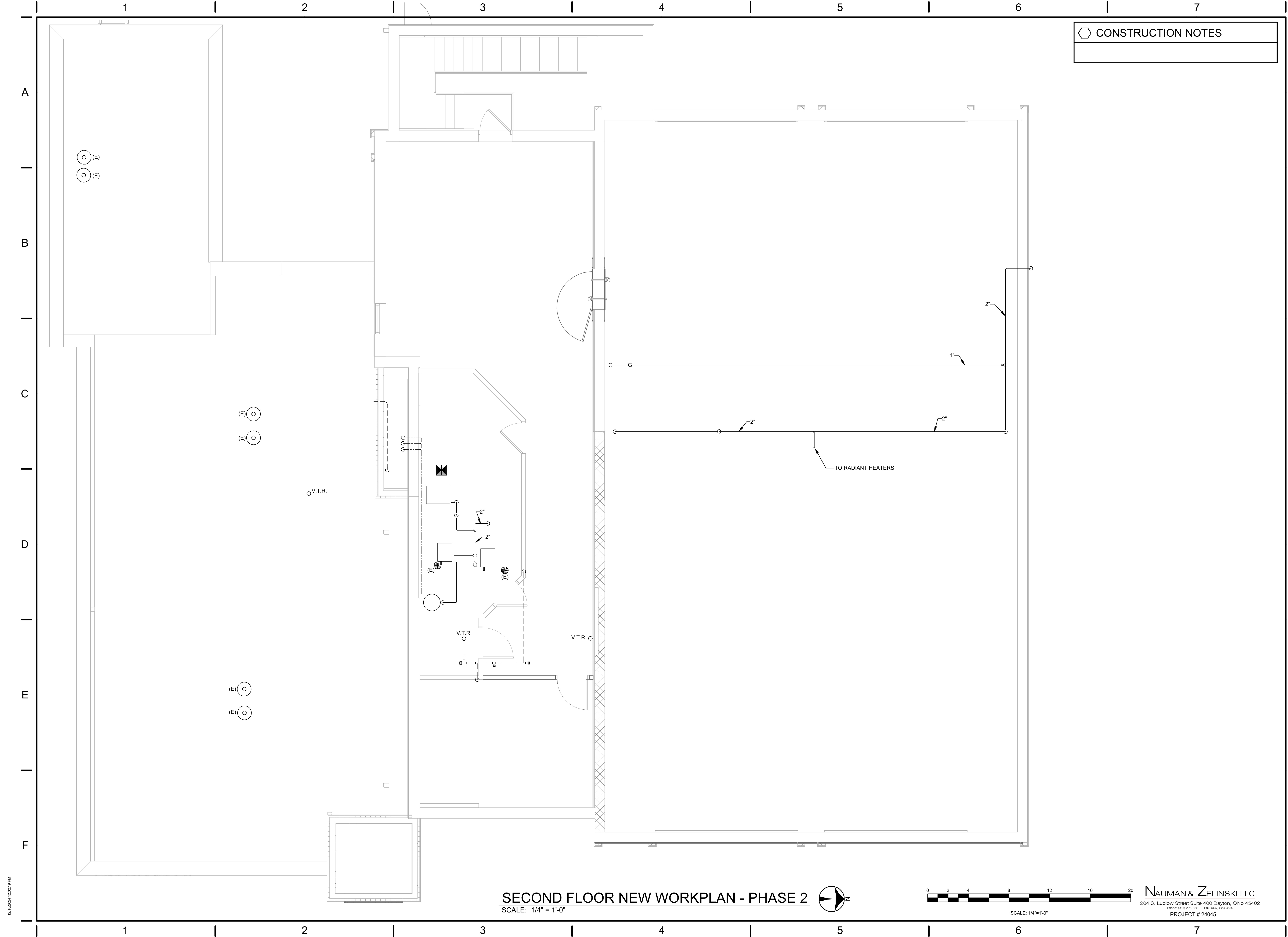
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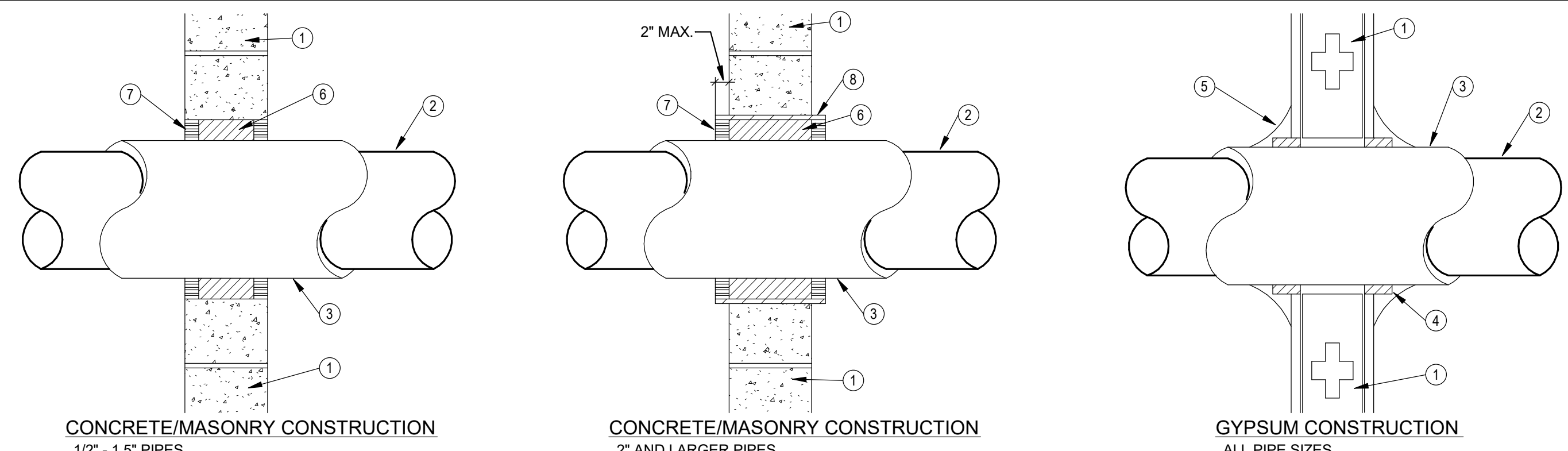


SECOND FLOOR NEW WORKPLAN - PHASE 2
SCALE: 1/4" = 1'-0"



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1 CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

2 CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

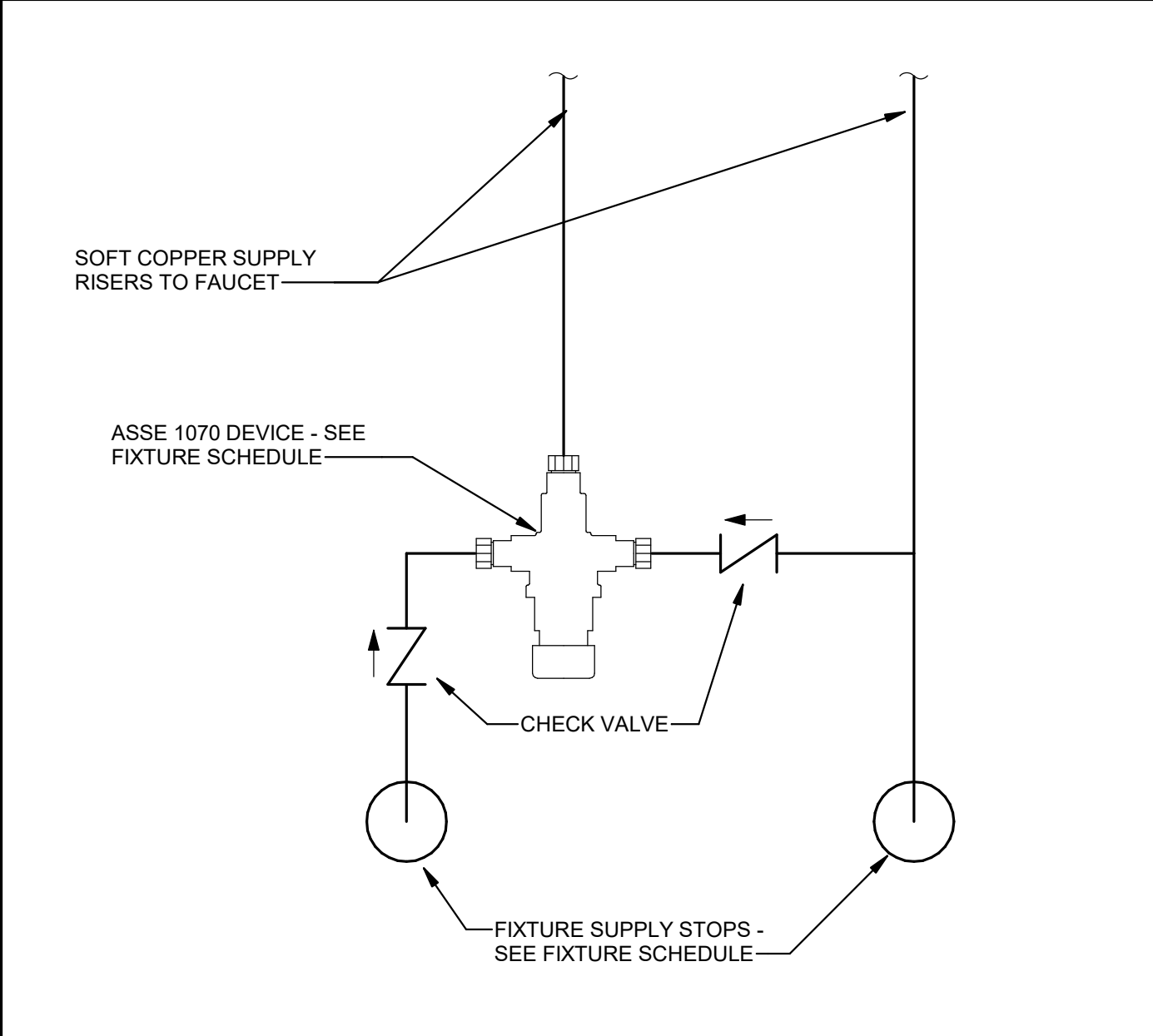
3 GYPSUM CONSTRUCTION
ALL PIPE SIZES

FIRESTOPPING MATERIALS/INSTALLATION

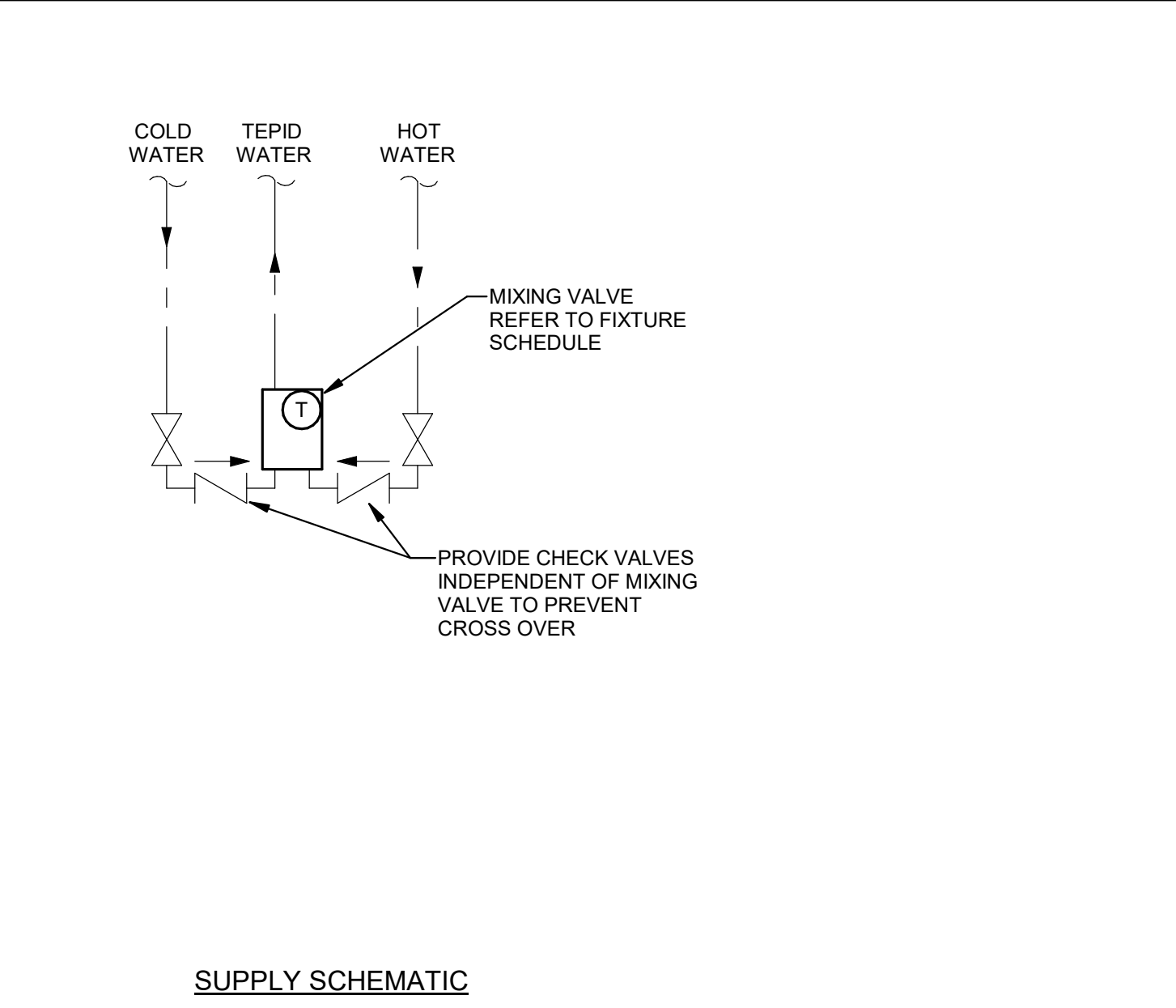
- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

- RATED WALL ASSEMBLY.
- METALLIC PIPE OR TUBING.
- PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
- APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
- APPROVED FIRESTOPPING CAULK OR SEALANT.
- PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
- APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
- SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

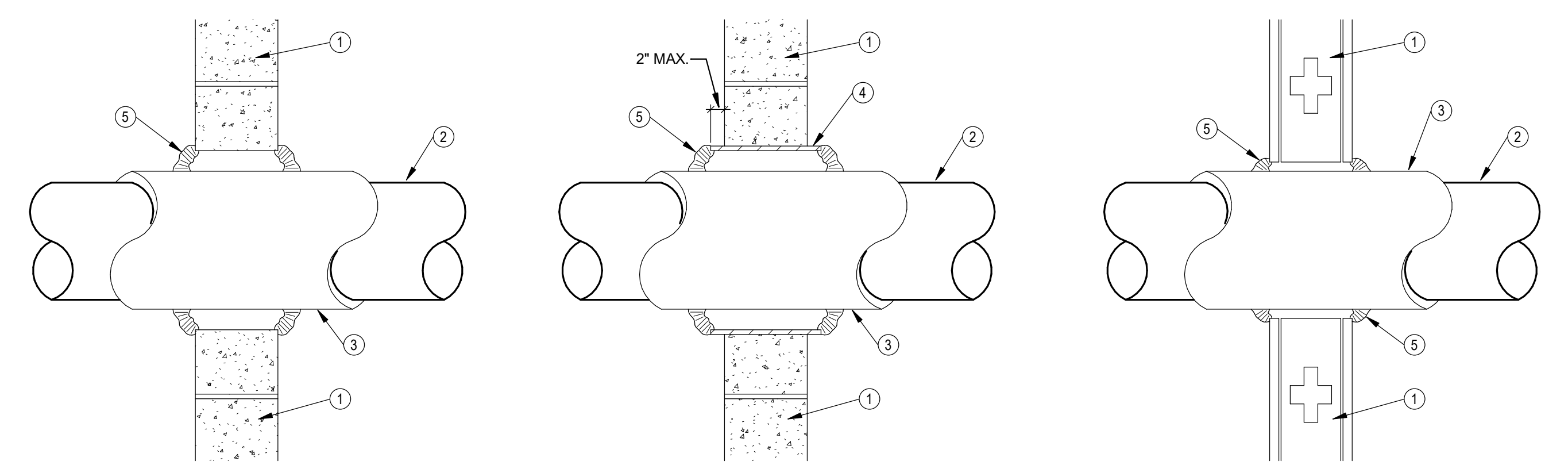
1 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.



2 ASSE 1070 DEVICE
N.T.S.



3 EMERGENCY FIXTURE TEMPERING SCHEMATIC
N.T.S.



4 CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

5 CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

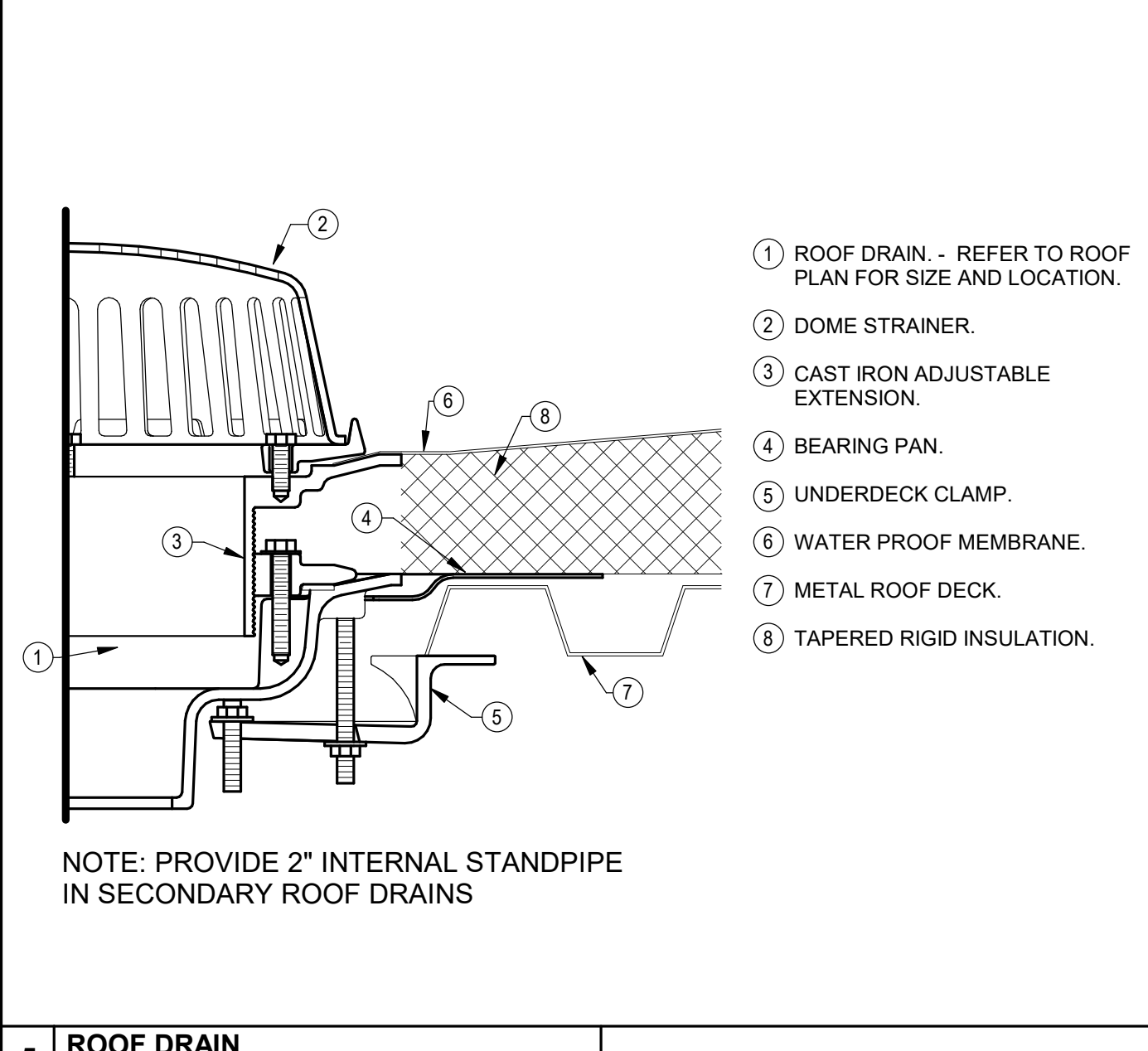
6 GYPSUM CONSTRUCTION
ALL PIPE SIZES

GENERAL NOTE:

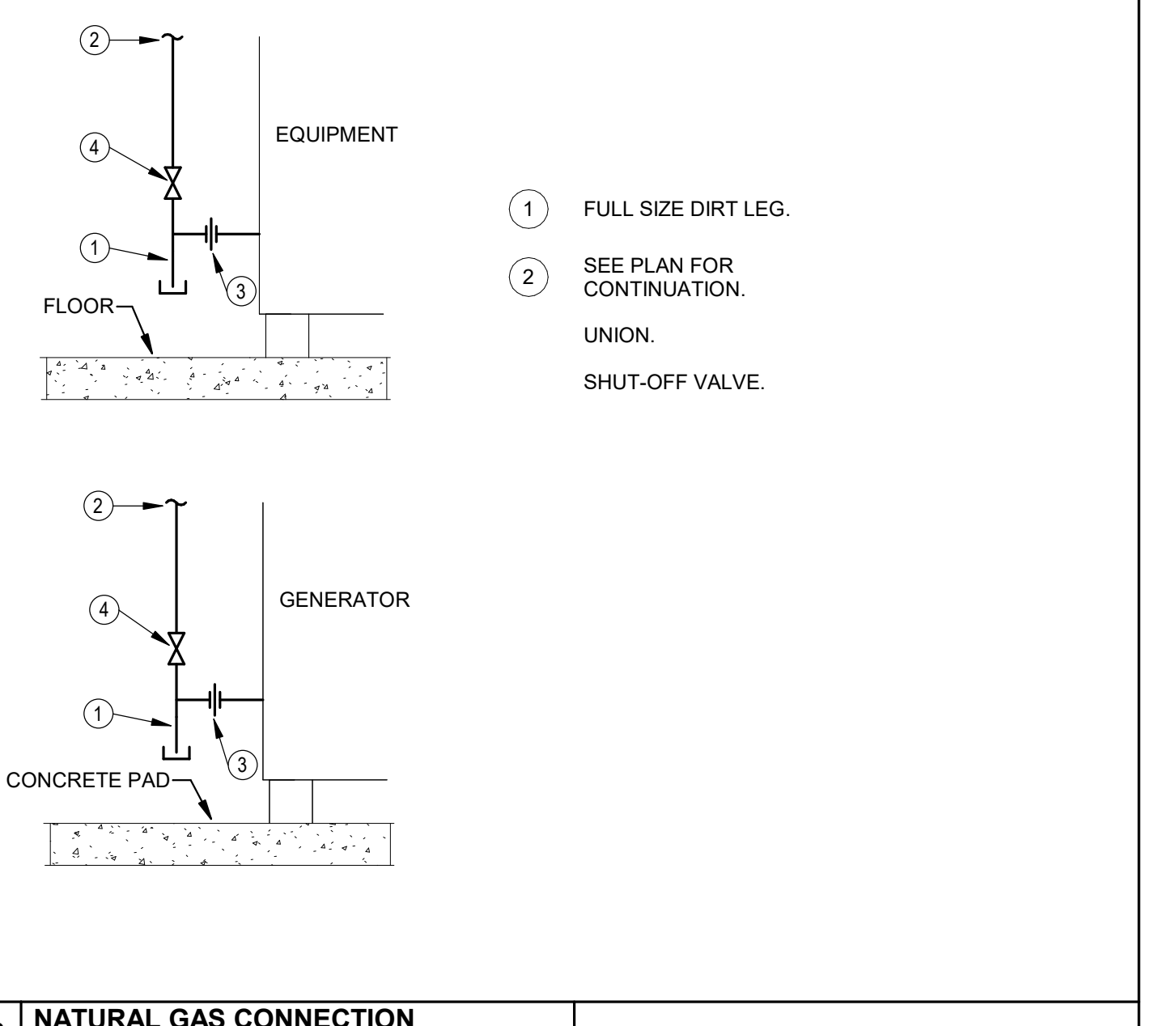
- A. SLEEVES ARE NOT REQUIRED IN THE FOLLOWING:
- IN FLOOR SLABS ON GRADE.
 - IN STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS WHICH ARE NOT FIRE RATED.
 - FOR UNINSULATED PIPE PASSING THRU MASONRY WALLS AND PARTITIONS AND STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS. SLEEVES ARE REQUIRED HOWEVER, FOR UNINSULATED CONDENSER WATER PIPING AND HYDRONIC HEAT PUMP PIPING FOR WHICH EXPANSION, CONTRACTION AND OTHER PIPE MOVEMENT CAN BE EXPECTED.
 - IN CORE DRILLED OPENINGS IN SOLID CONCRETE NOT REQUIRING WATER PROTECTION. SLEEVES ARE REQUIRED, HOWEVER, AT CORE DRILLING THRU HOLLOW PRE-CAST SLABS AND CONCRETE BLOCK WALLS, TO FACILITATE CONTAINMENT OF REQUIRED FIRESTOPPING MATERIAL.
 - IN LARGE FLOOR OPENINGS FOR MULTIPLE PIPE AND DUCT RISERS WHICH ARE WITHIN A FIRE RATED SHAFT, UNLESS THE OPENING IS TO BE CLOSED OFF WITH CONCRETE OR OTHER MATERIAL AFTER PIPE ARE SET.
- B. WHERE UNINSULATED PIPES REQUIRING NO PIPE SLEEVES PASS THRU NON-FIRE RATED FLOOR, WALL OR PARTITION, THE ANNULAR SPACE SHALL BE CLOSED WITH MATERIAL AND METHODS COMPATIBLE WITH THE WALL OR PARTITION MATERIAL (TYPE M MASONRY GROUT, DRYWALL JOINT COMPOUND, PLASTER, ETC.).

- FULL HEIGHT INTERIOR WALL.
- PIPE OR TUBING.
- PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
- SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
- CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

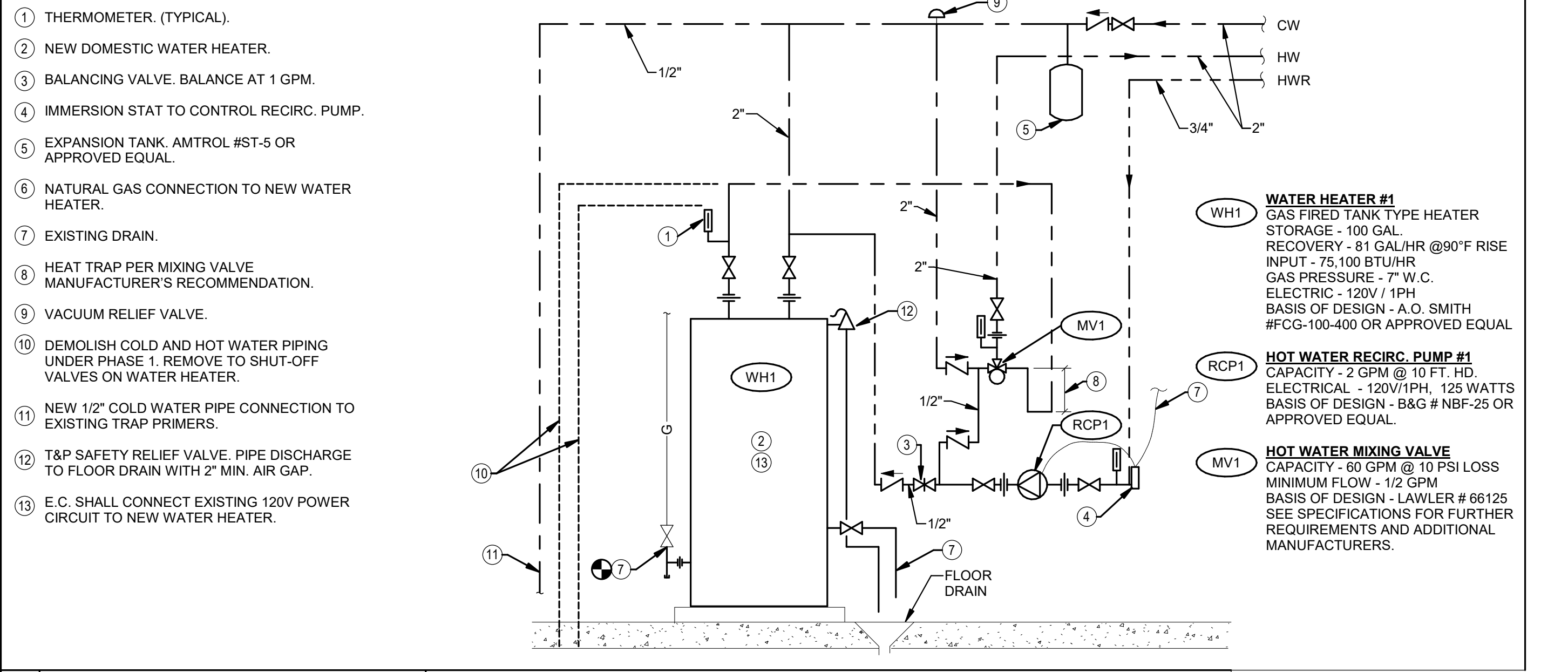
4 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



5 ROOF DRAIN
N.T.S.



6 NATURAL GAS CONNECTION
N.T.S.



7 DOMESTIC WATER HEATER
N.T.S.



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EXPIRATION DATE 12/31/2025

NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

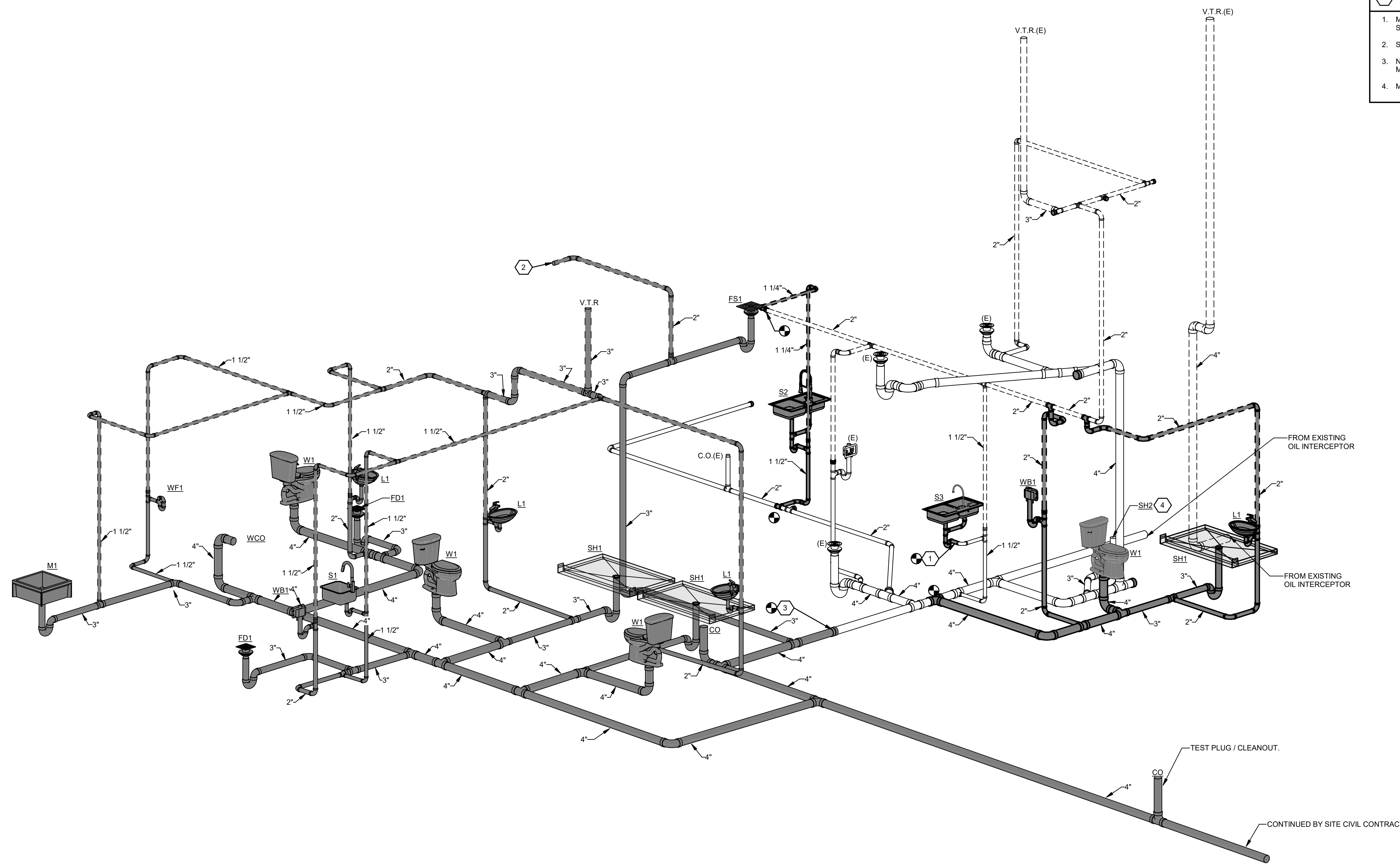
DATE	DESCRIPTION
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4262.00	
DJZ	
JDZ	

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SHEET NO.

P3.1

- CONSTRUCTION NOTES**
1. MODIFY EXISTING ROUGH-IN TO CONNECT NEW DOUBLE BOWL SINK.
 2. SIDEWALL VENT. REFER TO P1.5.
 3. NEW SANITARY CONNECTS TO EXISTING BUILDING SANITARY MAIN. REFER TO P1.3.
 4. MODIFY ROUGH-IN AND CONNECT TO NEW SHOWER DRAIN.



SOIL, WASTE, AND VENT DIAGRAM
N.T.S

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

ISSUE		
NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/13/2024
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**SOIL, WASTE, & VENT
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SHEET NO.
P4.1

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PROJECT # 24045

12/18/2024 12:32:24 PM

SEISMIC CONTROL SPECIFICATIONS

PART 1 - GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:

- SEISMIC CONTROL REQUIREMENTS.

1.2 PERFORMANCE REQUIREMENTS

A. SEISMIC CERTIFICATION AND ANALYSIS:

- EACH TRADE CONTRACTOR SHALL RETAIN A SPECIALTY CONSULTANT OR EQUIPMENT MANUFACTURER TO DEVELOP A SEISMIC RESTRAINT SYSTEM AND PERFORM SEISMIC CALCULATIONS IN ACCORDANCE WITH THE CBC AND ASCE 7, AND ADDITIONAL REQUIREMENTS SPECIFIED IN THIS SECTION. A PROFESSIONAL ENGINEER EXPERIENCED IN SEISMIC RESTRAINT DESIGN AND INSTALLATION AND LICENSED IN THE STATE OF OHIO SHALL BE RESPONSIBLE FOR CALCULATIONS, RESTRAINT SELECTIONS AND INSTALLATION DETAILS.
- THE SEISMIC RESTRAINT DESIGN SHALL CLEARLY INDICATE THE ATTACHMENT POINTS TO THE BUILDING STRUCTURE AND DESIGN FORCES IN ALL HORIZONTAL AND VERTICAL AXES AT THE ATTACHMENT POINTS. THE SEISMIC RESTRAINT ENGINEER SHALL COORDINATE ALL ATTACHMENTS WITH THE BUILDING'S STRUCTURAL ENGINEER OF RECORD, WHO SHALL VERIFY THE ATTACHMENT METHODS AND THE ABILITY OF THE BUILDING STRUCTURE TO ACCEPT THE LOADS IMPOSED.
- THE SEISMIC RESTRAINT DESIGN SHALL BE BASED ON ACTUAL EQUIPMENT DATA (DIMENSIONS, WEIGHT, CENTER OF GRAVITY, ETC.) OBTAINED FROM SUBMITTALS OR THE MANUFACTURERS. THE EQUIPMENT MANUFACTURER SHALL VERIFY THAT THE ATTACHMENT POINTS ON THE EQUIPMENT CAN ACCEPT THE COMBINATION OF SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED. FOR LIFE SAFETY SYSTEMS AND OTHER SYSTEMS THAT MUST REMAIN OPERATIONAL DURING AND AFTER AN EARTHQUAKE, THE MANUFACTURER SHALL PROVIDE CERTIFICATION THAT THE EQUIPMENT CAN ACCEPT THE LOADS IMPOSED AND REMAIN OPERATIONAL.
- ANALYSIS SHALL INCLUDE CALCULATED DEAD LOADS, STATIC SEISMIC LOADS, AND CAPACITY OF MATERIALS UTILIZED FOR THE CONNECTION OF THE EQUIPMENT OR SYSTEM TO THE STRUCTURE. ANALYSIS SHALL DETAIL ANCHORING METHODS, BOLT DIAMETER, EMBEDMENT AND/OR WELDED LENGTH. ALL SEISMIC RESTRAINT DEVICES SHALL BE DESIGNED TO ACCEPT, WITHOUT FAILURE, THE FORCES DETAILED IN THE CODE ACTING THROUGH THE EQUIPMENT OR SYSTEM'S CENTER OF GRAVITY.

1.3 SUBMITTALS

A. DELEGATED-DESIGN SUBMITTAL: THE SEISMIC RESTRAINT DESIGN, CONSISTING OF CALCULATIONS, RESTRAINT SELECTION, INSTALLATION DETAILS, AND OTHER DOCUMENTATION, SHALL BE SUBMITTED. THIS SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, AS STATED ABOVE. THIS SUBMITTAL WILL BECOME PART OF THE PROJECT DESIGN CALCULATIONS, INCLUDED IN THE PROJECT RECORDS, AND WHEN REQUIRED, WILL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION.

B. SEISMIC RESTRAINT DEVICES: PRODUCT DATA, VERIFICATION OF SEISMIC CAPABILITIES AND INSTALLATION DETAILS.

C. WELDING CERTIFICATES.

D. FIELD QUALITY-CONTROL TEST REPORTS.

1.4 QUALITY ASSURANCE

A. COMPLY WITH SEISMIC-RESTRAINT REQUIREMENTS IN THE CBC UNLESS REQUIREMENTS IN THIS SECTION ARE MORE STRINGENT.

B. WELDING: QUALITY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE - STEEL"

C. ALL SEISMIC RESTRAINTS AND COMBINATION ISOLATOR / RESTRAINTS SHALL HAVE VERIFICATION OF THEIR SEISMIC CAPABILITIES: MANUFACTURERS MAY VERIFY THEIR CAPABILITIES BY TESTING THAT IS WITNESSED BY AN INDEPENDENT PROFESSIONAL ENGINEER OR AN ASSOCIATION THAT HAS DEVELOPED A UNIFORM SET OF TEST STANDARDS. INDEPENDENT APPROVAL CAN ALSO BE OBTAINED BY AGENCIES SUCH AS OSHPD (OFFICE OF STATEWIDE HEALTH, PLANNING AND DEVELOPMENT) FROM THE STATE OF CALIFORNIA, NES, ICBO ES, FACTORY MUTUAL, UNDERWRITERS LAB, RECOGNIZED INDUSTRY STANDARDS ORGANIZATIONS SUCH AS VISCMA, ETC.

PART 2 - PRODUCTS

2.1 SEISMIC-RESTRAINT DEVICES

A. SEISMIC RESTRAINT DEVICES MAY INCLUDE ANY MANUFACTURER'S SYSTEM(S) SUITABLE FOR THE BUILDING CONSTRUCTION APPLICATION.

B. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- THE VMC GROUP (VIBRATION MOUNTING AND CONTROLS)
- MASON INDUSTRIES
- KINETICS NOISE CONTROL.

SEISMIC GENERAL REQUIREMENTS

- THE PROJECT HAS SEISMIC LOAD SUPPORT REQUIREMENTS BASED ON THE SEISMIC USE GROUP (OCCUPANCY) DESIGNATION OF THE FACILITY OF "IV" AND SEISMIC DESIGN CATEGORY "C". REFER TO DRAWING S0.01 FOR ADDITIONAL INFORMATION.
- THE NEW BUILDING ADDITION REQUIRES SEISMIC RESTRAINT. ALL RENOVATION WORK IN THE EXISTING BUILDING DOES NOT REQUIRE SEISMIC RESTRAINTS.
- SEISMIC DESIGN REQUIREMENTS FOR MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE PROVIDED AS REQUIRED BY 2024 OHIO BUILDING CODE CHAPTER 16, SECTION 1613 EARTHQUAKE LOADS AND BY REFERENCE, THE AMERICAN SOCIETY OF STRUCTURAL ENGINEERS (ASCE) STANDARD 7-16 "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES" (2016).
- CHAPTER 13 OF ASCE 7-16 DEFINES THE REQUIREMENTS FOR THE MECHANICAL AND ELECTRICAL COMPONENTS.
- THE COMPONENT IMPORTANCE FACTOR, I_p SHALL BE 1.5 FOR ALL COMPONENTS PER ASCE 7-16, 13.1.3 SINCE THE COMPONENTS ARE REQUIRED TO FUNCTION FOR LIFE SAFETY PURPOSES AFTER AN EARTHQUAKE AS WELL AS THE COMPONENTS ARE ALL LOCATED WITHIN AN OCCUPANCY CATEGORY "IV" STRUCTURE.
- ASCE 7-16, TABLE 13.6-1 DEFINES THE SEISMIC AMPLIFICATION FACTOR A_p AND RESPONSE FACTOR R_p FOR EACH COMPONENT THAT SHALL BE USED IN DETERMINING THE ATTACHMENT REQUIREMENTS.
- CERTAIN COMPONENTS TO BE SEISMICALLY BRACED AND SUPPORTED ARE TO ALSO INCLUDE VIBRATION ISOLATION WHERE INDICATED.
- FIRE SUPPRESSION PIPING SHALL BE SEISMIC BRACED PER THE REQUIREMENTS OF NFPA 13-2022.

ALL MECHANICAL AND ELECTRICAL SYSTEMS MUST FUNCTION AFTER AN EARTHQUAKE. EQUIPMENT, COMPONENTS, PIPING, DUCTWORK, CONDUIT, COMMUNICATION CABLING, ETC. SHALL BE SEISMICALLY BRACED. EXCEPTIONS:

PLUMBING:

- PIPING ON TRAPEZE HANGERS WHERE THE LARGEST PIPE IS NO GREATER THAN 2" AND THE TOTAL WEIGHT OF ALL PIPES IS LESS THAN 10LB/FT. (WEIGHT IS OPERATIONAL WEIGHT)
- CAST IRON OR PVC PIPE 2" AND SMALLER SHALL BE CONSIDERED AN IMPORTANCE FACTOR OF $I_p=1.0$ AND THEREFORE, DO NOT REQUIRE BRACING.
- COPPER AND STEEL PIPING 2" OR LESS ON SINGLE HANGERS.

HVAC:

- DUCTWORK LESS THAN 6 SQ. FT.
- INLINE DUCTWORK COMPONENTS, I.E. FANS, TERMINAL UNITS, HUMIDIFIERS, ETC. THAT ARE 75 LBS OR LESS.
- PIPING ON TRAPEZE HANGERS WHERE THE LARGEST PIPE IS NO GREATER THAN 2" AND THE TOTAL WEIGHT OF ALL PIPES IS LESS THAN 10LB/FT. (WEIGHT IS OPERATIONAL WEIGHT)
- COPPER AND STEEL PIPING 2" OR LESS ON SINGLE HANGERS.

ELECTRICAL:

- CONDUIT LESS THAN 2.5".
- LIGHT FIXTURES INDEPENDENTLY SUPPORTED FROM STRUCTURE WITH SUPPORTS DESIGNED FOR 1.4 TIMES THE FIXTURE WEIGHT.
- CEILING FANS SUSPENDED FROM STRUCTURE WITH ATTACHMENT DESIGNED FOR 1.4 TIMES THE FAN WEIGHT.

GENERAL HVAC REMOVAL NOTES

A. GENERAL - THIS REMOVAL PLAN HAS BEEN MADE TO ASSIST THE CONTRACTOR IN DETERMINING GENERAL SCOPE OF REMOVALS. THESE DRAWINGS SHALL NEITHER BE CONSIDERED AS SHOWING ALL REMOVAL ITEMS NOR SHALL IT BE CONSIDERED A SUBSTITUTE FOR A THOROUGH SITE INVESTIGATION. NO ALLOWANCE SHALL BE MADE FOR LACK OF KNOWLEDGE CONCERNING EXISTING SITE CONDITIONS. ALL PIPE AND/OR DUCTWORK SHALL BE MADE CONTINUOUS TO ANY ACTIVE EQUIPMENT PAST THE ITEM(S) BEING REMOVED.

B. GENERAL REMOVALS - THE HVAC CONTRACTOR IS TO REMOVE ALL EXISTING, ACCESSIBLE UNUSED OR ABANDONED DEVICES, PIPING, WIRING, DUCTWORK AND SUPPORT HANGERS OR STRUCTURES TOTALLY BACK TO SOURCE. IN NO CASE SHALL ANY ABANDONED PIPING, WIRING, DUCTWORK, OR EQUIPMENT REMAIN WITHIN THE CONSTRUCTION AREA OR IN ADJACENT AREAS TO MECHANICAL ROOMS OR CLOSETS. ONLY ITEMS THAT ARE INACCESSIBLE SHALL BE ALLOWED TO BE ABANDONED IN PLACE WITH ALL ACCESSIBLE SERVICES APPROPRIATELY CAPPED.

C. SUPPORTS REMOVALS - ALL SUPPORTS SHALL BE REMOVED ENTIRELY FROM DEMOLISHED PIPING, DUCTWORK AND EQUIPMENT. REMAINING ACTIVE PIPING, DUCTWORK, ETC. SHALL BE RE-SUPPORTED AS REQUIRED WHERE EXISTING SUPPORTS ARE REMOVED, AS IN THE CASE OF DUCTWORK OR PIPING, WHICH IS BEING REMOVED OR WHERE EXISTING SUPPORTS/LOCATION CONFLICTS WITH NEW UTILITIES. NEW SUPPORTS SHALL UTILIZE APPROVED AND RECOGNIZED MATERIALS AND METHODS AND BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS.

D. WALL REMOVALS - RECESSED DEVICES TO BE ABANDONED IN EXISTING WALLS WHICH ARE TO REMAIN IN FINISHED AREAS SHALL BE COVERED BY SUITABLE BLANK COVER PLATES AND PAINTED TO MATCH FINISH. WHERE REMOVALS ARE COMPLETELY REMOVED FROM FACE OF WALL, PATCH WALL CONSISTENT WITH ADJACENT FINISH. SURFACE MOUNTED REMOVED DEVICES SHALL HAVE SURFACE REPAIRED AND FINISHED TO MATCH ADJACENT EXISTING OR NEW ARCHITECTURAL FINISHES.

E. ROOF REMOVALS - DEVICES, SERVICES, SUPPORTS & EQUIPMENT REMOVED FROM ROOF SHALL BE REMOVED. THE HVAC CONTRACTOR SHALL ENGAGE A ROOFING CONTRACTOR TO PATCH THE ROOFING CONSISTENT WITH THE EXISTING ROOF WARRANTY.

F. ABANDONED SERVICES - ALL INACTIVE DUCT AND PIPE ABOVE CEILINGS SHALL BE REMOVED IN ENTIRETY AND CAPPED AT NEAREST ACTIVE MAINS.

G. EQUIPMENT REMOVAL/DISPOSAL COORDINATION - COORDINATE REMOVAL ITEMS CLOSELY WITH OWNER. ANY ITEMS REMOVED WITHIN THE CONSTRUCTION AREA SHALL BE TURNED OVER TO THE OWNER IN GOOD CONDITION WHEN INDICATED HEREIN OR WHEN SO REQUESTED BY THE OWNER. ALL OTHERS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REQUIRED TO BE DISPOSED OF ACCORDINGLY. DISPOSALS REGULATED BY EPA SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST REQUIREMENTS AND DOCUMENTED.

H. PROTECTION - EXISTING MATERIALS AND FINISHES ARE TO BE PROTECTED AND RESTORED TO MATCH ADJACENT FINISHES. PROVIDE ADEQUATE PROTECTION TO ALL EXPOSED SURFACES AND EQUIPMENT WITHIN THE REMOVAL AREA.

I. ACTIVE EQUIPMENT & SERVICES - ANY EXISTING EQUIPMENT OR DEVICES TO REMAIN IN ADJACENT SPACES MADE INACTIVE BY REMOVAL OF DEVICES OR WIRING WITHIN THE CONSTRUCTION AREA SHALL BE RE-FED AS REQUIRED TO MAKE DEVICES OR EQUIPMENT OPERATIONAL.

J. DAMAGED SERVICES & INSULATION - EXISTING PIPING & DUCTWORK TO REMAIN WITH DAMAGED INSULATION ENCOUNTERED IN AREAS OF WORK SHALL HAVE DAMAGED INSULATION REMOVED AND REPLACED WITH NEW. INSULATION THICKNESS SHALL MATCH EXISTING CONDITION. WORK TO BE PERFORMED ON A TIME AND MATERIAL BASIS AS ENCOUNTERED. SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

K. OPENINGS & PATCHING - WHERE DUCTWORK, PIPING, EQUIPMENT, OR AIR DEVICES ARE REMOVED THROUGH WALLS, FLOORS, CEILINGS AND ROOF, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND FINISH CONSISTENT WITH THE EXISTING OR NEW ARCHITECTURAL FINISHES FOR THAT AREA. OPENINGS OR HOLES EXPOSED TO EXTERIOR CONDITIONS SHALL BE MADE WEATHER-TIGHT AND WATERPROOF AND CONSISTENT WITH ADJACENT WALL FINISHES. PATCHING AND SEALING TO BE CONSISTENT WITH FIRE AND SMOKE STOPPING AND RATING.

CMU WALLS - GROUT SMALL PENETRATIONS CLOSED. TOOTH IN WITH NEW BLOCKING FOR LARGE HOLES.
BRICK WALLS - TOOTH IN WITH NEW BRICK.
GYPSUM BOARD WALLS - REPLACE WITH NEW GYPSUM BOARD
STRUCTURAL METAL ROOF/FLOOR DECKING - REPLACE WITH NEW DECKING, SAME AS EXISTING SIZE
CONCRETE FLOORS/WALLS - GROUT PENETRATIONS CLOSED
WOOD FLOORS/WALLS - PATCH CONSISTENT WITH WOOD TYPE

L. ASBESTOS REMOVALS - ANY MATERIAL SUSPECTED OF CONTAINING ASBESTOS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL IMMEDIATELY BE REPORTED TO OWNER AND PROJECT MANAGER. ALL WORK IN THAT AREA SHALL CEASE UNTIL DEEMED SAFE.

M. CEILING REMOVALS - THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL, STORAGE AND RE-INSTALLATION OF CEILING GRIDS AND TILES AS REQUIRED FOR WORK. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENTS, IF DAMAGED.

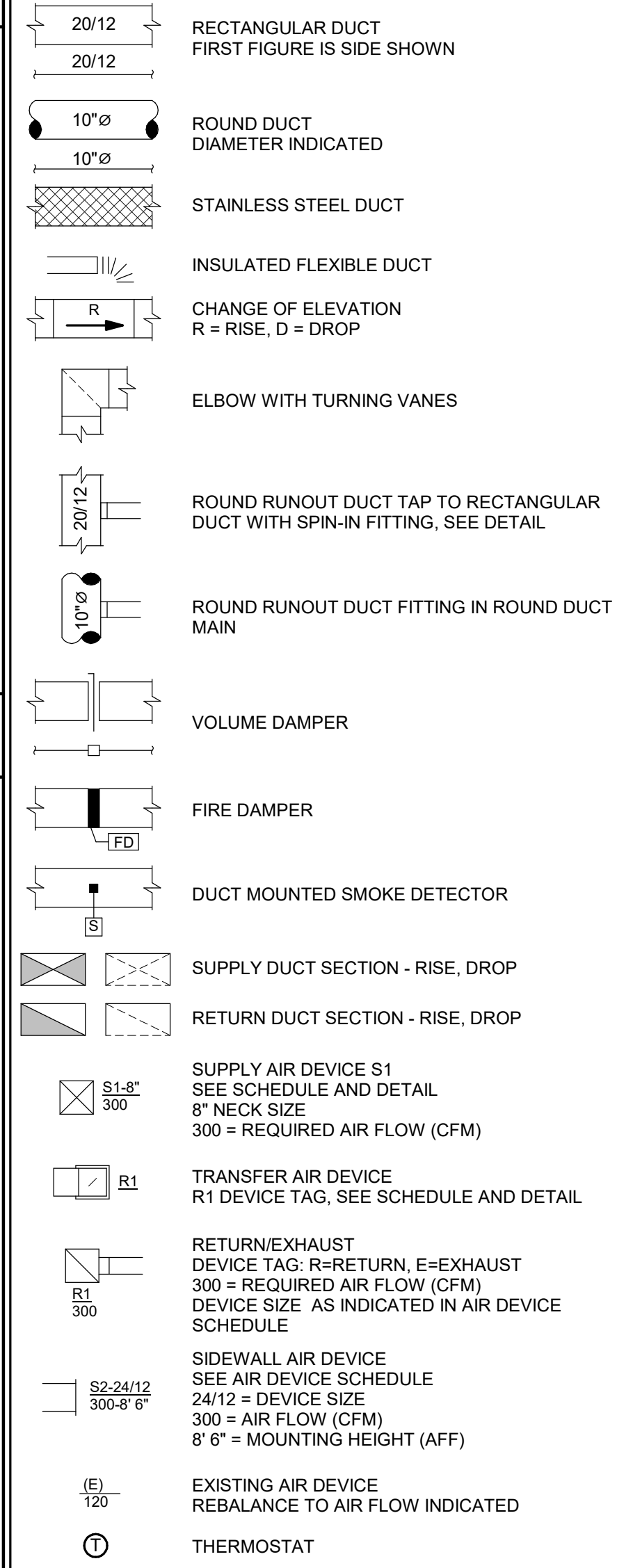
GENERAL NOTES - HVAC

- PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

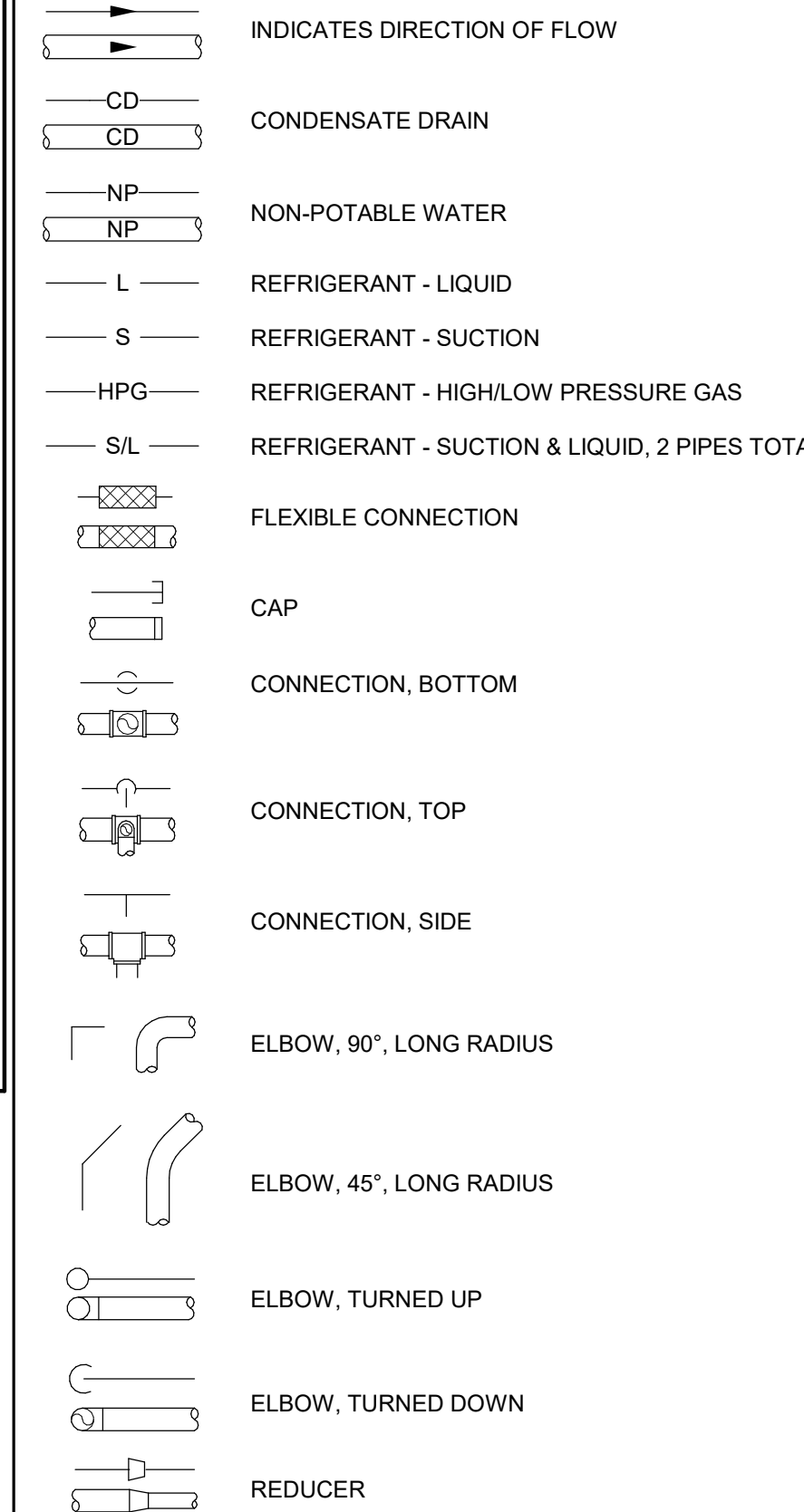
GENERAL REQUIREMENTS - HVAC

- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR FAMILIAR WITH THE ROOFING SYSTEM. MAINTAIN ANY REMAINING ROOF WARRANTY.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICATIONS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS DRAWING WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- PROJECT CONDITIONS REQUIRE COORDINATION TO MAKE SYSTEMS FIT IN THE AVAILABLE SPACE. HVAC CONTRACTOR SHALL PROVIDE AN INITIAL 1/2" = 1/8" SET OF DRAWINGS AND DISTRIBUTED TO OTHER TRADE CONTRACTORS FOR COORDINATION. ALL CONTRACTORS SHALL COOPERATE TO MODIFY THEIR RESPECTIVE MATERIAL AND EQUIPMENT INSTALLATION AND DEPICIT ON A DETAILED, FINISHED COORDINATION SET OF DRAWINGS BEFORE INSTALLATION. ALLOW FOR EXPECTED MINOR OFFSETS OR RELOCATION SYSTEM OR EQUIPMENT WITHOUT REQUEST FOR COMPENSATION ADJUSTMENT.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
- PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
- PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 16 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.

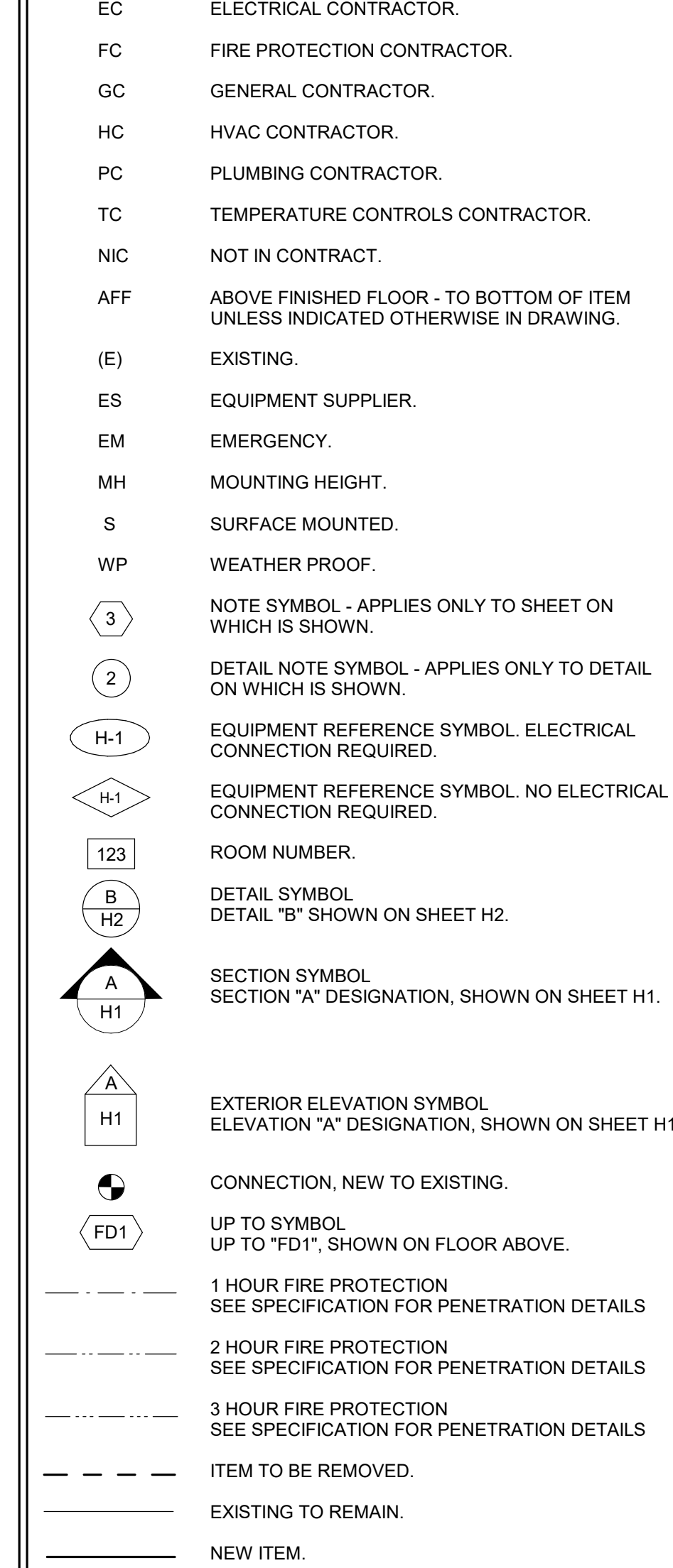
DUCTWORK LEGEND



PIPING LEGEND



GENERAL LEGEND

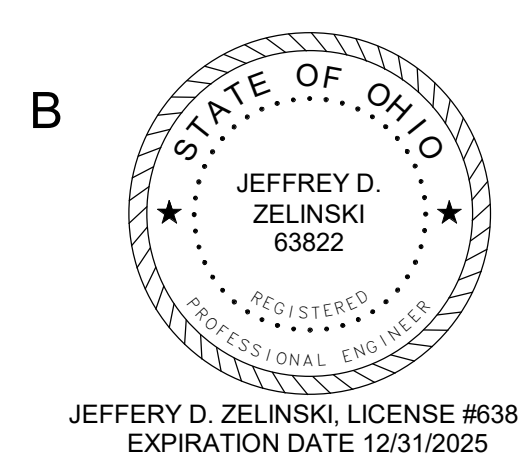


HVAC INDEX OF DRAWINGS

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H0.2	MATERIAL SCHEDULES
H0.3	EQUIPMENT SCHEDULES
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H3.1	DETAILS
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H3.3	DETAILS
H3.4	DETAILS
H4.1	CONTROLS
H5.1	VENTILATION

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JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Renovation and Addition

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DATE	12/18/2024
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TITLE
LEGENDS & SCHEDULES

SHEET NO.
H0.1

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PROJECT # 24045

PIPING SYSTEMS - HVAC			
PIPING SYSTEM		TYPE	
COIL CONDENSATE DRAINAGE		C3	
REFRIGERANT PIPING		C1	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	WELDED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E 150 LB. C.I. FITTINGS	C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER

PIPE INSULATION SCHEDULE			
SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
REFRIGERANT LIQUID	0.75"	E1, E2	INTERIOR/EXTERIOR
REFRIGERANT HOT GAS	0.75"	E1, E2	INTERIOR/EXTERIOR
REFRIGERANT SUCTION	0.75"	E1, E2	INTERIOR/EXTERIOR
COOLING COIL CONDENSATE	0.5"	F1	INTERIOR
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS CORNING #ALL SERVICE JACKET	- KNAUF #1000° PIPE - JOHNS MANVILLE #MICRO-LOK HP - MANSON - CERTAINTEED	PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING K=0.24 @ 100 DEG. F. 3.5 - 5.5 PCF WHITE FSRK JACKET. LONGITUDINAL LAP, SELF-SEALING ADHESIVE. ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE. PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.
E1	AEROFLEX #AEROCEL EPDM	- ARMACELL - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, EPDM ELASTOMERIC TUBULAR INSULATION, OR SHEET INSULATION. K=0.25 @ 75 DEG. F. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.
E2	ARMACELL #AP ARMAFLEX FS	- AEROFLEX - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, ELASTOMERIC TUBULAR INSULATION. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING. K=0.25 @ 75 DEG. F. 25/50 FLAME/SMOKE RATING PROVIDE 0.20" ROLL ALLOY ALUMINUM EMBOSSED JACKET. SEAM SIDE DOWN WITH 0.50" WIDE, 0.015" S.S. STRAP AND SEALS EQUAL TO PABCO-CHILDERS METALS/GERRARD.

DUCT INSULATION SCHEDULE				
SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED	
SUPPLY AIR DUCT	2"	2	EXPOSED	
SUPPLY AIR DUCT	2"	1	IN ATTIC	
OUTDOOR AIR DUCT & PLEMUNS	1.5"	1	CONCEALED	
OUTDOOR AIR DUCT & PLEMUNS	2"	2	EXPOSED	
RETURN AIR DUCT	-	-	CONCEALED	
RETURN AIR DUCT	-	-	EXPOSED	
RETURN AIR DUCT	1.5"	1	IN ATTIC	
EXHAUST AIR DUCT & PLENUMS	-	-	CONCEALED	
EXHAUST AIR DUCT & PLENUMS	-	-	EXPOSED	
EXHAUST AIR DUCT & PLENUMS	1.5"	1	IN ATTIC	
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION	
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT. ADHESIVE - NONE TAPE - 3" WIDE	
2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS BOARD ON DUCT K = 0.23 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - ASJ JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - NONE TAPE - 3" WIDE VAPOR PATCHED	

NOTES:

DUCTWORK SYSTEM SCHEDULE					
DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.		NOTES
			SP. CONSTR.	SEAL CLASS	
RETURN AIR	CONCEALED	G1	-2"	C	
RETURN AIR	EXPOSED	G2	-2"	C	2
OUTDOOR AIR	ALL	G1	+4"	A	
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	2
AIR TRANSFER	ALL	G1	-1"	NOT REQ'D.	
SUPPLY AIR - CONSTANT VOLUME	CONCEALED	G1	+3"	B	
SUPPLY AIR - CONSTANT VOLUME	EXPOSED	G2	+3"	B	
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED OR UNCONDITIONED	C1	+10" -5"	N.A.	
FC-1 COMBUSTION AIR	ALL	P1	-2"	A	
FC-1 EXHAUST FLUE	ALL	D1	+4"	A	
DUCTWORK MATERIALS SCHEDULE					
TYPE	MATERIAL	DESCRIPTION			
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 6.0 (MIN.) FIBERGLASS INSULATION REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM. UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.			
D1	SPECIAL GAS VENT	REFER TO SPECIFICATION 23 5100.			
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.			
G2	GALVANNEALED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE, A40 PER ASTM A653.			
P1	POLYPROPYLENE	SCHEDULE 80 POLYPROPYLENE PIPE, UL 1738.			

NOTES:

- DUCTWORK SYSTEMS ARE TO MATCH BASE MATERIALS FOR CONCEALED AND EXPOSED INSTALLATIONS.
- FIELD PREPARE GALVANIZED DUCTWORK FOR PAINTING WITH AN ACID WASH OF VINEGAR.
- PROVIDE PLAQUARD ON ALL ACCESS DOORS STATING "ACCESS PANEL. DO NOT OBSTRUCT."

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EXPIRATION DATE 12/31/2025

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MATERIAL SCHEDULES

SHEET NO.
H0.2

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PROJECT # 24045

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AIR DEVICE SCHEDULE

GENERAL NOTES
AIR DEVICES BASED ON PRICE.
EQUAL BY TITUS, TUTTLE & BAILEY
MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.
BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

Table with columns: TAG, DESCRIPTION, MODEL NO., MATERIAL, ACCESSORIES, NOTES. Includes items S1 & S1A, S2 & S2A, S3, S4, R1, R2, R3, R4, E1, E2.

NOTES:
1. DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.

LOUVER SCHEDULE

GENERAL NOTES
BASIS OF DESIGN: GREENHECK
EQUAL BY: POTTORFF, RUSKIN, AIROLITE
MAXIMUM 500 FPM ON INTAKE LOUVERS
MAXIMUM 1000 FPM ON EXHAUST LOUVERS
FINAL COLOR SELECTION BY ARCHITECT.

Table with columns: TAG, DESCRIPTION, MODEL NO., MATERIAL, ACCESSORIES, NOTES. Includes items L-1, L-2, L-3.

NOTES:
1. PROVIDE INSULATED DAMPER, GREENHECK #ICD-45, ACTUATOR 120V, POWERED CLOSED, SPRING RETURN, FAIL OPEN.

CIRCULATION FAN SCHEDULE

Table with columns: TAG, DESCRIPTION / MODEL #, BLADE DIA., MOTOR WATTS, ELECTRIC, NOTES. Includes items CF-1, WF-1.

NOTES:
1. LOW PROFILE, "HUGGER" TYPE.
2. FIXED, WALL MOUNTED, THREE SPEED CONTROL FURNISHED BY H.C., INSTALLED BY E.C.
3. FINISH COLOR SELECTION BY ARCHITECT.
4. FAN SHALL BE PROVIDED WITH BLADE SAFETY CAGE.
5. PROVIDE PULL STRING EXTENSION TO CONTROL FAN SPEED.
6. PATIO FAN SHALL BE OUTDOOR, WET RATED.

EQUIPMENT NOTES

A/C WITH FURNACE/COIL SPLIT SYSTEM
BASIS OF DESIGN: TRANE
INDOOR UNIT MODEL #: 4TXC+S9X1B
OUTDOOR UNIT MODEL #: 4TTR4
SYSTEM CAPACITY: 3.5 TONS
FAN PERFORMANCE:
• 1.475 CFM
COOLING PERFORMANCE:
• E.A.T.: 75.5 DB / 63 WB
• L.A.T.: 55 DB / 54 WB
• TOTAL CAPACITY: 42 MBH
• SENSIBLE CAPACITY: 31 MBH
HEATING PERFORMANCE:
• 98% EFFICIENT FURNACE
• INPUT / OUTPUT (MBH): 90 / 77.6
• FUEL TYPE: NATURAL GAS
FILTER SIZE:
• 16"x25"x1"
REFRIGERANT:
• R-454b
ELECTRICAL DATA:
• INDOOR UNIT: 120V / 1PH / 10.3 MCA / 15 MOCP
• OUTDOOR UNIT: 240V / 1PH / 20 MCA / 35 MOCP
APPROVED EQUALS: DAIKIN, YORK.
NOTES:
1. PROVIDE INSULATED REFRIGERANT LINTSET FOR UNIT.
2. PROVIDE REMOTE MOUNTED THERMOSTAT.
3. PROVIDE CONDENSATE NEUTRALIZING KIT.

FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK
REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS
VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.
REFER TO INSTALLATION DETAILS.

Table with columns: TAG, SERVICE, AREA, DESCRIPTION, MODEL NUMBER & SIZE, ROOF OPENING (L x W), CAPACITY (AIRFLOW (CFM), E.S.P. (IN. W.C.), MOTOR HP, V/PH), ELECTRICAL, DISCONNECT WITH FAN, DISCONNECT BY E.C., VFD, ECM, DIRECT, BELT, ROOF CURB, BASEFLOOR, SUSPENDED, INLINE, WALL, CEILING, UL 706 GREASE RATED, UL 984 SMOKE CONTROL, HIGH TEMP (ABOVE 200 °F), EXPLOSION PROOF, VIBRATION ISOLATION, INSULATION HOUSING, THERMAL CONTROL, SLOPING ROOF CURB, HINGED ROOF CURB, CURB EXTENSION, POWDER COAT FINISH, EPOXY INTERIOR FINISH, DDC CONNECTION, MANUAL ON/OFF SWITCH, DIAL SPEED CONTROLLER, HOA CONTROLLER, MOTORIZED DAMPER, GRAVITY DAMPER, NOTES.

NOTES:
1. FAN CONTROLLED THROUGH LINE VOLTAGE THERMOSTAT. SET INITIALLY TO 80 DEG. F.
2. REFER TO HOA CONTROLLER DIAGRAM.

FAN COIL UNIT SCHEDULE

BASIS OF DESIGN: MITSUBISHI
EQUAL BY: DAIKIN, YORK
- COOLING CAPACITIES BASED ON 95°F OUTDOOR AIR TEMP., HEATING BASED UPON -13°F OUTDOOR AIR TEMP.

Table with columns: UNIT, DESCRIPTION, MOUNTING, CONDENSING UNIT, CFM, E.S.P., COOLING CAPACITY (SENS. MBH, TOTAL MBH, EAT (DB/WB), LAT (DB/WB)), HEATING CAPACITY (MBH, EAT / LAT), REFRIGERANT PIPING (GAS, LIQUID), ELECTRICAL (V/PH, MCA, MOCP), CABINET DIMENSIONS (WIDTH, DEPTH, HEIGHT), UNIT WEIGHT (LBS), MODEL NO., NOTES.

NOTES:
1. PROVIDE FLUSH MOUNT REMOTE THERMOSTAT.
2. INDOOR UNIT POWERED THROUGH OUTDOOR UNIT.
3. PROVIDE CONDENSATE PUMP.
4. UNIT COLOR SHALL BE BLACK. MITSUBISHI FINISH #MUNSELL 3.7PB 2.0/2.1.

CONDENSING UNIT SCHEDULE

BASIS OF DESIGN: MITSUBISHI
EQUAL BY: DAIKIN, YORK
GENERAL INFO: INVERTER DUTY COMPRESSOR.

Table with columns: UNIT, COOLING CAPACITY (MBH @ 95°F, MBH @ -13°F), HEATING CAPACITY (GAS, LIQUID, H/L PRESSURE), MAX PIPING LENGTH (FT), REFRIGERANT (TYPE, FACTORY CHARGE (LBS), ADDITIONAL CHARGE (LBS)), ELECTRICAL (V/PH, MCA, MOCP), DIMENSIONS (WIDTH (IN.), DEPTH (IN.), HEIGHT (IN.)), UNIT WEIGHT (LBS), MODEL NO., NOTES.

NOTES:
1. PROVIDE WIND BAFFLE KIT TO PROVIDE LOW AMBIENT COOLING.
2. PROVIDE INSULATION TO REFRIGERANT LINE SETS.
3. PROVIDE HAIL GUARD.
4. ADDITIONAL REFRIGERANT CHARGE BY H.C.

BRANCH SELECTOR BOX SCHEDULE

BASIS OF DESIGN: MITSUBISHI
EQUAL BY: DAIKIN, YORK

Table with columns: UNIT, CONDENSING UNIT SERVED, AREA SERVED, # OF CIRCUITS, COOLING CAPACITY (MBH), ELECTRICAL (V/PH, MCA, MOCP), CABINET DIMENSIONS (WIDTH, DEPTH, HEIGHT), UNIT WEIGHT (LBS), MODEL NO., NOTES.

NOTES:
1. MOUNT TIGHT TO STRUCTURE WITH VIBRATION ISOLATOR HANGERS.

ENERGY RECOVERY VENTILATOR SCHEDULE

BASIS OF DESIGN: GREENHECK
ENTERING AIR CONDITIONS:
SUMMER OUTSIDE AIR: 90 DB / 74 WB
SUMMER EXHAUST AIR: 76 DB / 50% RH
WINTER OUTSIDE AIR: 0 DB
WINTER EXHAUST AIR: 68 DB
BASED ON WHEEL TYPE ERV.

Table with columns: UNIT, AREA SERVED, AIRFLOW (CFM), EXHAUST E.S.P., SUPPLY E.S.P., COOLING (ENTHALPY RECOVERY RATIO, EAT (DB/WB), LAT (DB/WB)), HEATING (ENTHALPY RECOVERY RATIO, EAT, LAT), ELECTRICAL (V/PH, MCA, MOCP), CABINET DIMENSIONS (WIDTH, DEPTH, HEIGHT), UNIT WEIGHT (LBS), MODEL NO., NOTES.

NOTES:
1. DISCONNECT WITH UNIT.
2. MERV 8 FILTERS ON OUTSIDE AIR AND EXHAUST AIR STREAMS.

ELECTRIC UNIT HEATER SCHEDULE

GENERAL NOTES
BASIS OF DESIGN: RAYWALL

Table with columns: UNIT NO., DESCRIPTION, MODEL, MOUNTING, KW, MBH, AIR FLOW (CFM), DIMENSIONS (W (IN.), H (IN.), D (IN.)), VOLTAGE / PHASE, NOTES.

NOTES:
1. INTEGRAL THERMOSTAT AND DISCONNECT SWITCH.



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EQUIPMENT SCHEDULES
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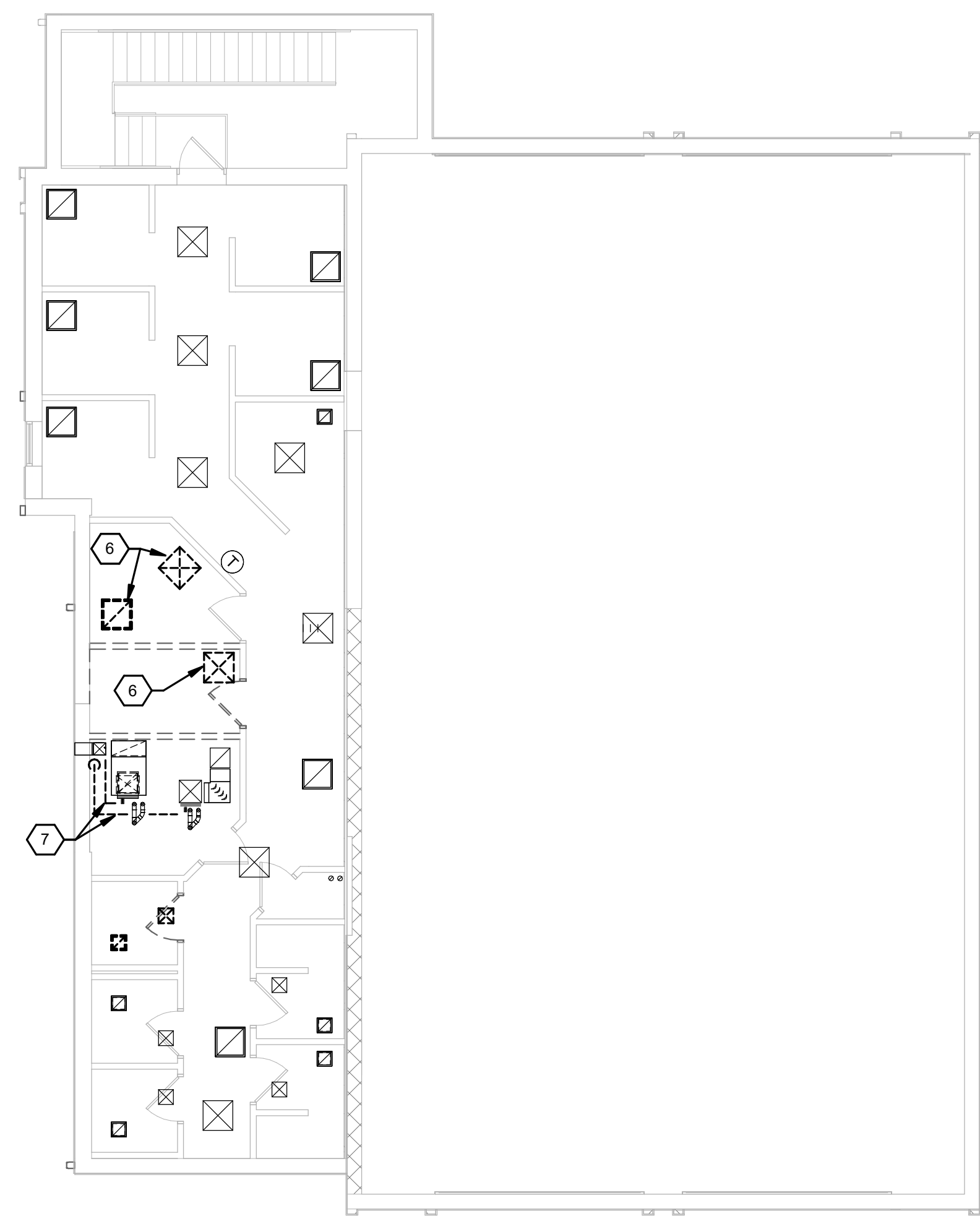
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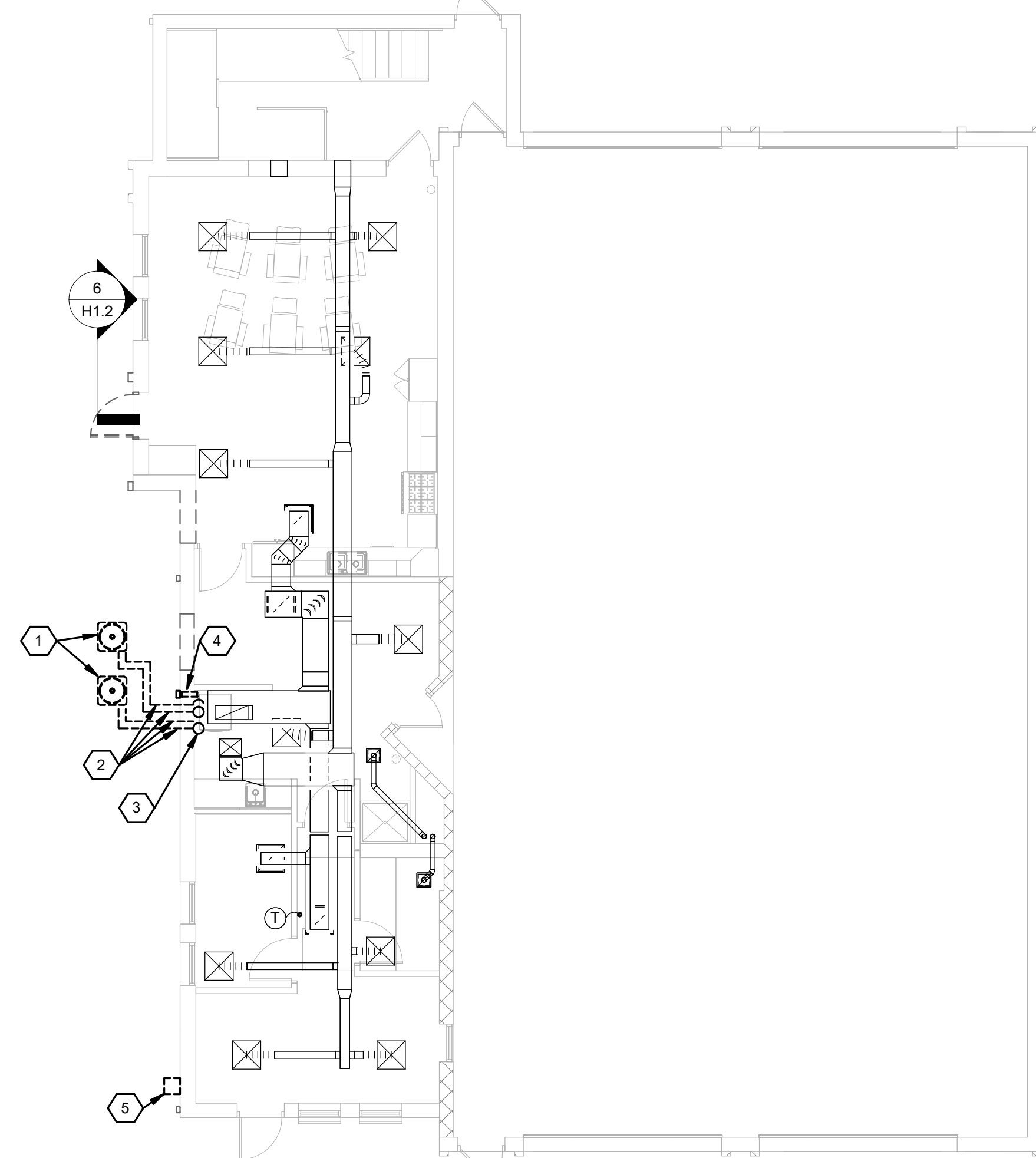
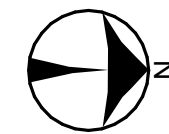
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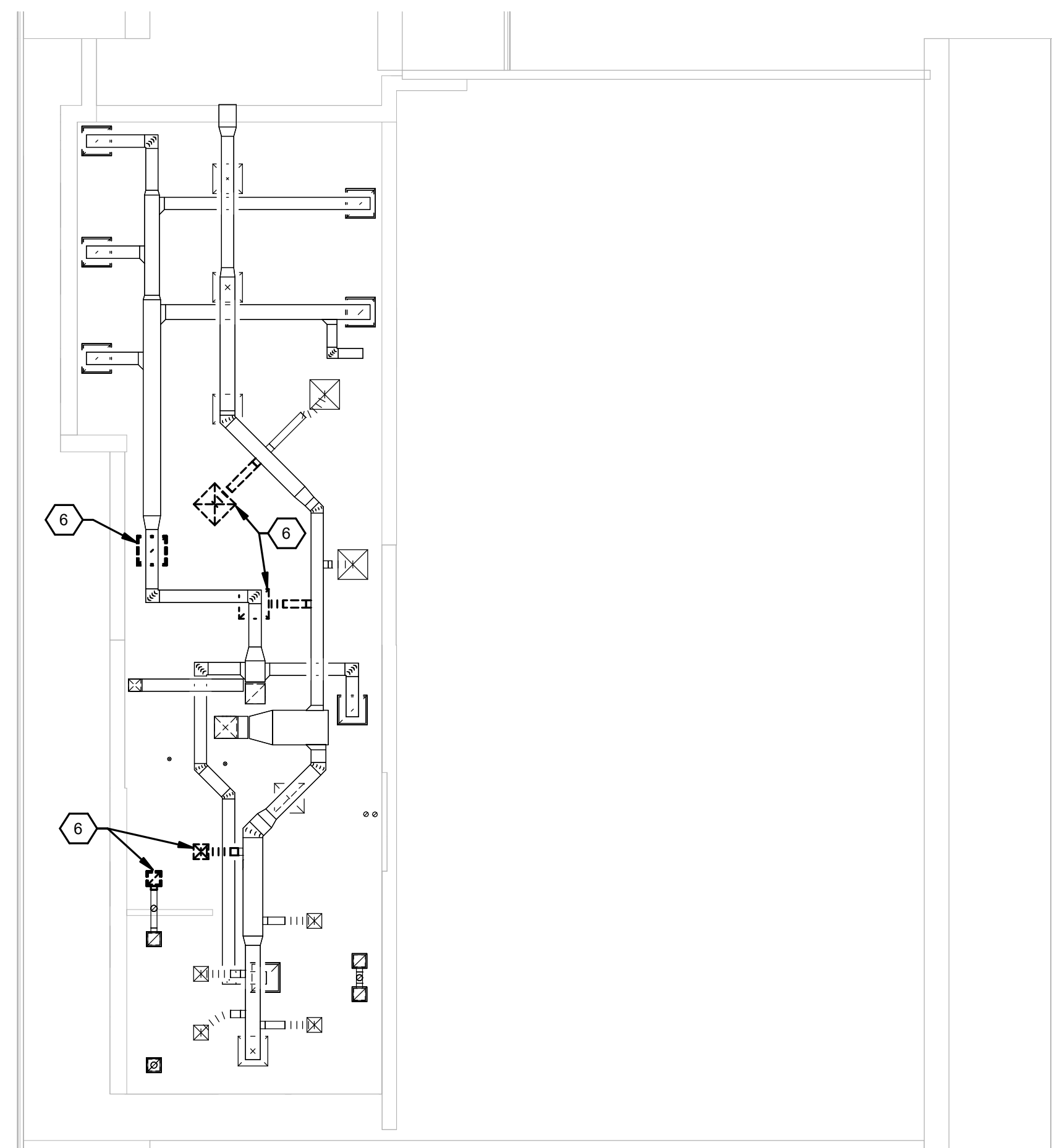
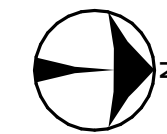
SECOND FLOOR DEMOLITION PLAN - PHASE 1

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



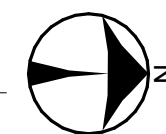
FIRST FLOOR DEMOLITION PLAN - PHASE 1

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



ATTIC DEMOLITION PLAN - PHASE 1

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



CONSTRUCTION NOTES

1. EXTERIOR CONDENSING UNITS TO BE RELOCATED DURING PHASE 1 CONSTRUCTION TO TEMPORARY LOCATION. REFER TO H1.2.
2. REMOVE REFRIGERANT PIPING. PATCH WALL PENETRATION TO MATCH EXISTING CONSTRUCTION.
3. REMOVE REFRIGERANT PIPING UP TO MECHANICAL ROOM. PATCH FLOOR PENETRATION TO MATCH EXISTING.
4. REMOVE EXISTING DRYER VENT THROUGH WALL. PATCH WALL PENETRATION TO MATCH EXISTING. REFER TO H1.2 FOR NEW DRYER VENT RUN.
5. REMOVE WALL MOUNTED DDC CONTROL SENSOR. COORDINATE WITH G.C.
6. REMOVE AIR DEVICE. REMOVE RUNOUT TO MAIN DUCT IN ATTIC AND CAP.
7. REMOVE REFRIGERANT PIPING. RECLAIM REFRIGERANT AND TURN OVER TO OWNER. REFER TO H1.2 FOR NEW PIPING RUN.

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PHASE 1 - DEMOLITION PLANS

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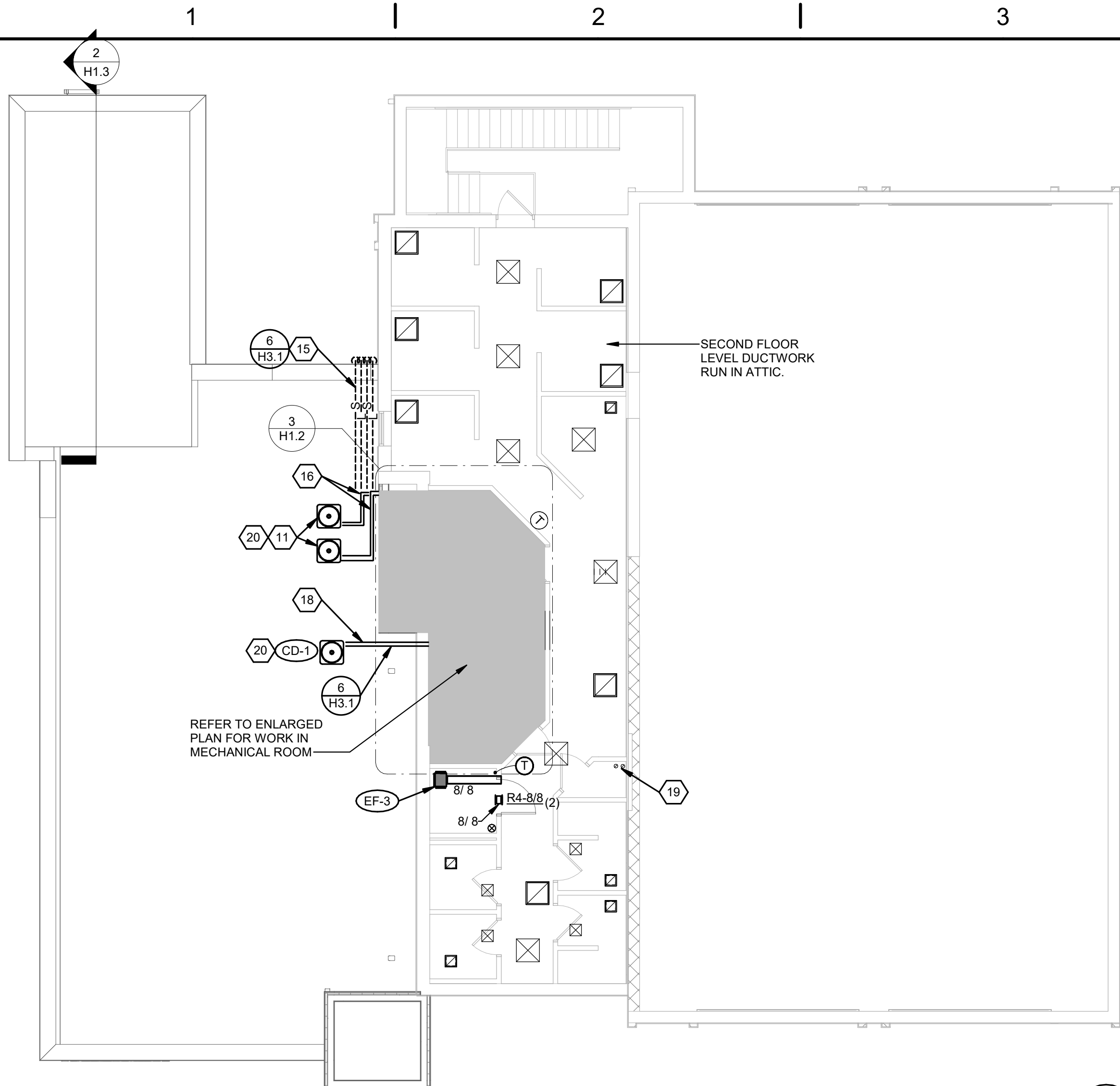
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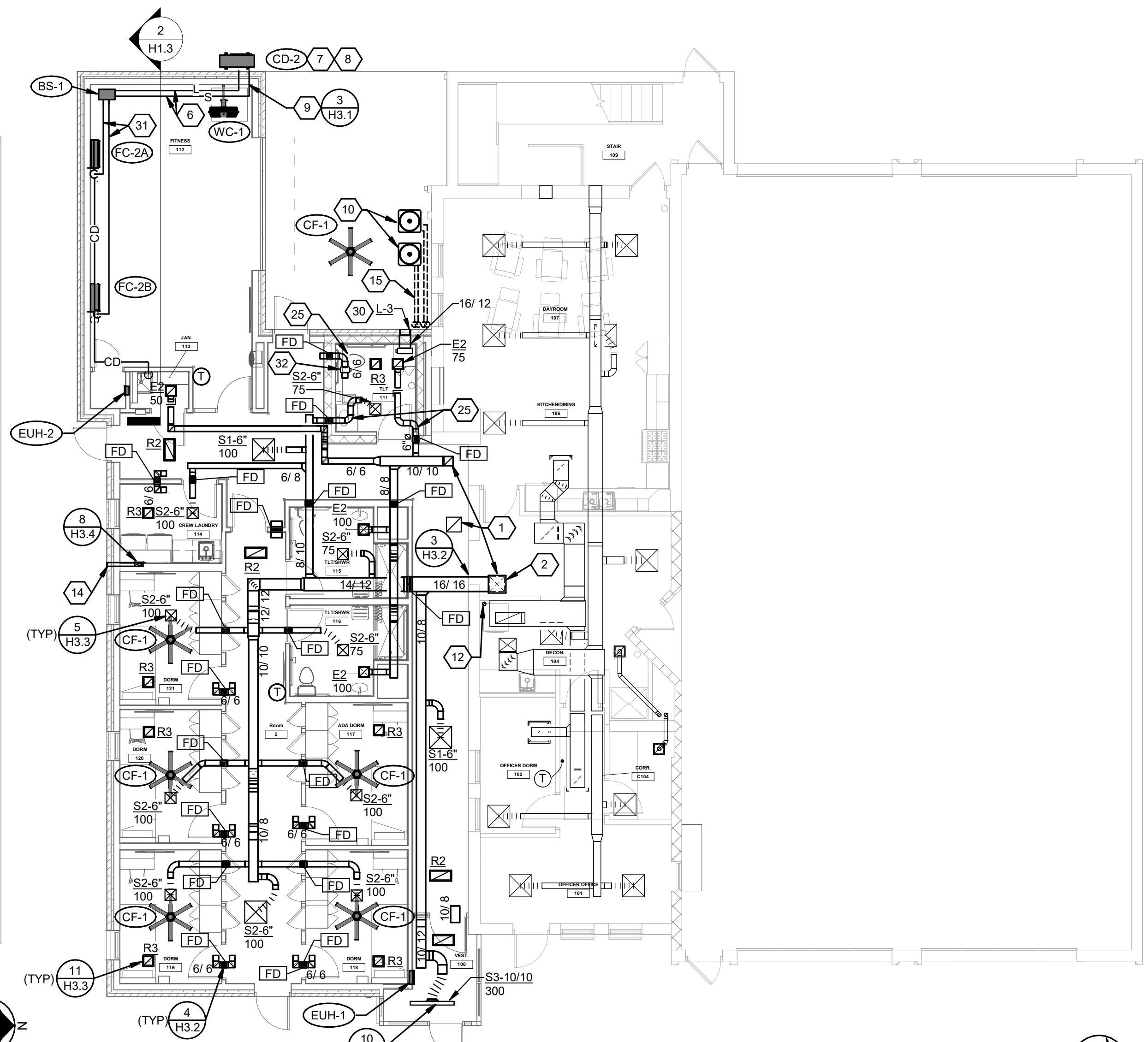
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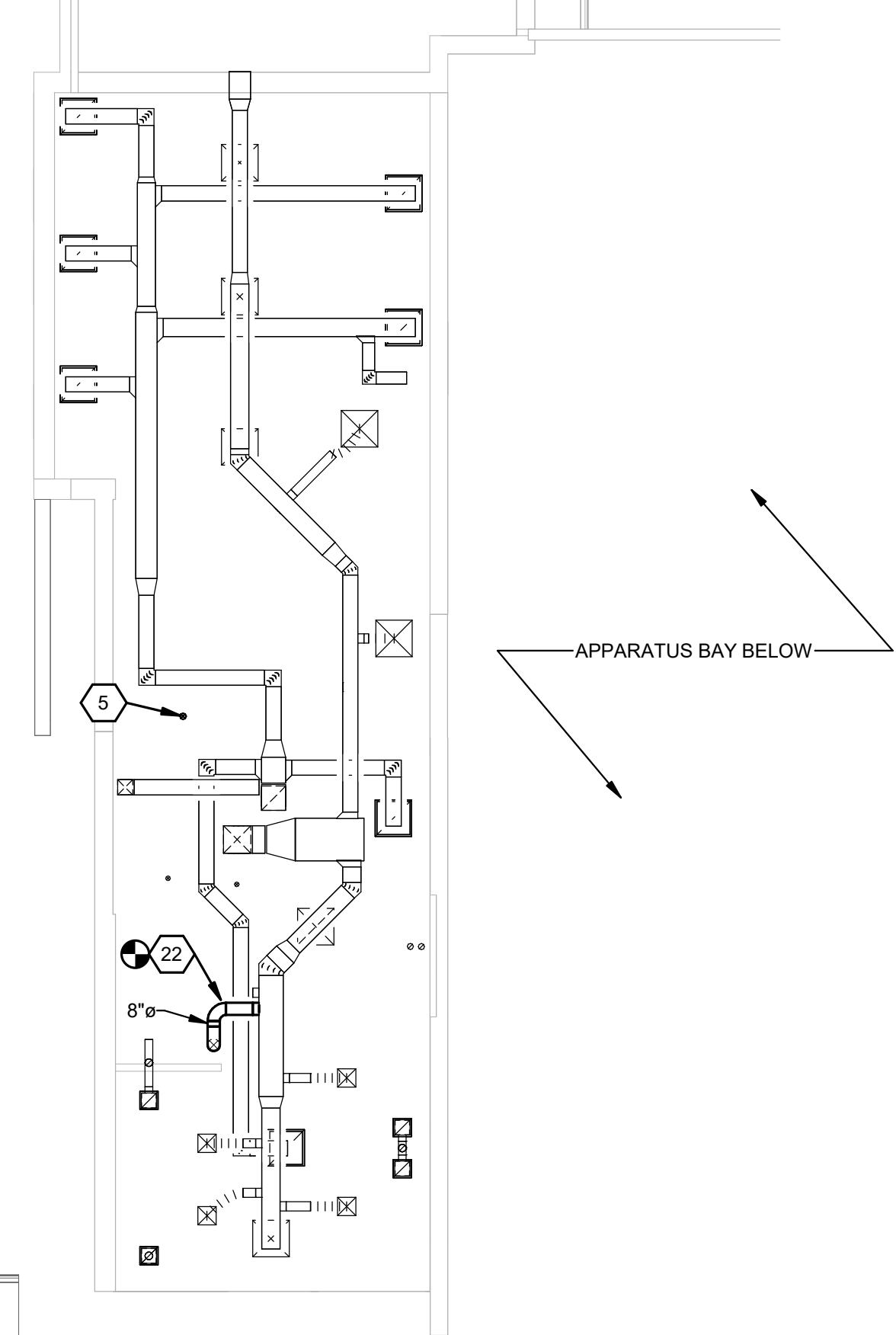
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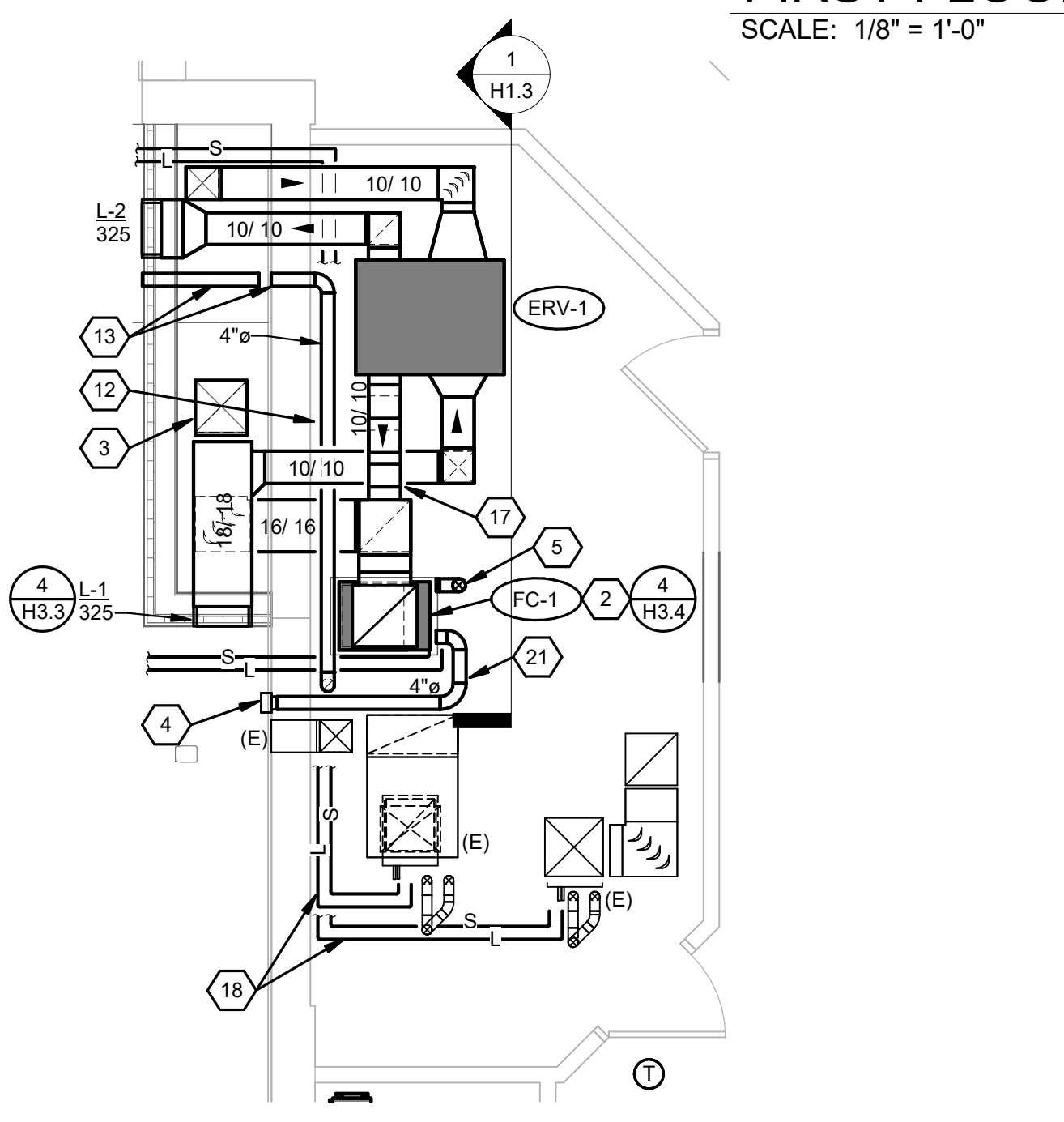
SECOND FLOOR NEW WORK PLAN - PHASE 1
SCALE: 1/8" = 1'-0"



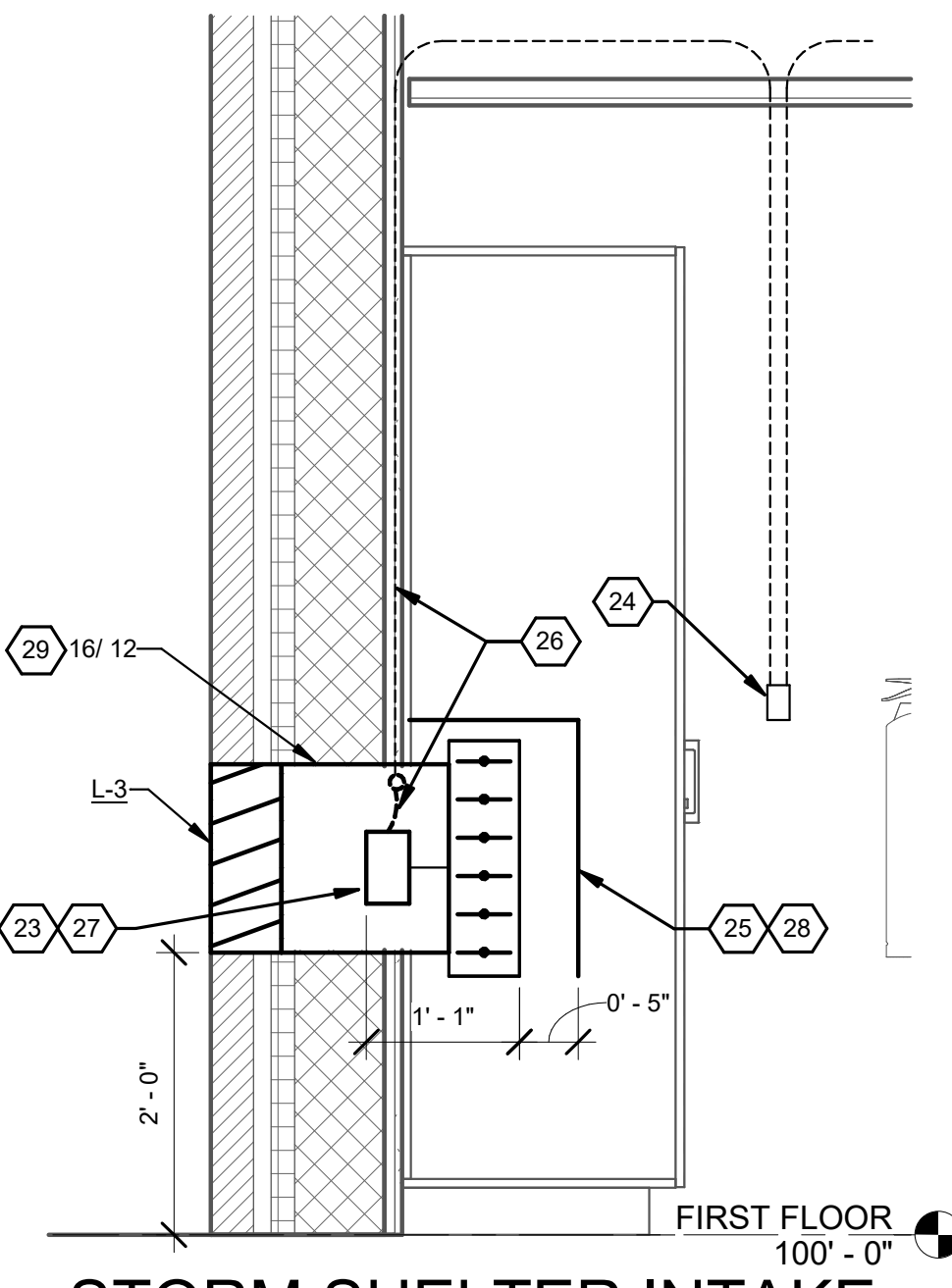
FIRST FLOOR NEW WORK PLAN - PHASE 1
SCALE: 1/8" = 1'-0"



ATTIC NEW WORK PLAN - PHASE 1
SCALE: 1/8" = 1'-0"



ENLARGED MECH. ROOM PLAN
SCALE: 1/4" = 1'-0"



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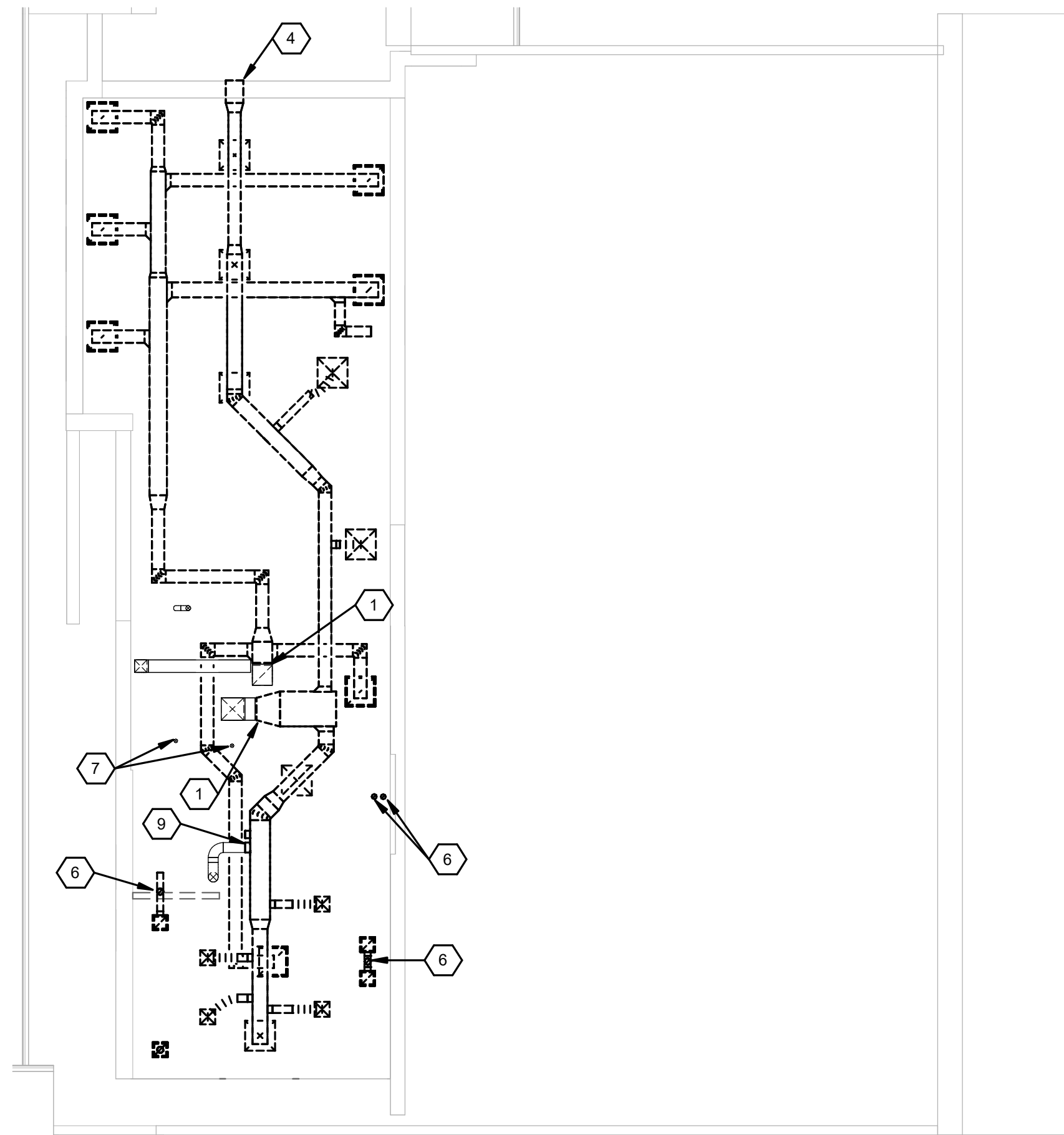
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CONSTRUCTION NOTES

1. REMOVE DUCTWORK TO LOCATION INDICATED. REFER TO NEW WORK PLAN.
2. REMOVE AND REPLACE AIR DEVICE IN CONJUNCTION WITH NEW CEILING GRID. REFER TO NEW WORK PLAN.
3. REMOVE DUCT TO LOCATION INDICATED AND CAP.
4. REMOVE SUPPLY AND RETURN DUCTWORK INTO STAIRWELL. PATCH WALL TO MATCH EXISTING CONSTRUCTION.
5. REMOVE EXHAUST FAN AND DUCTWORK.
6. REMOVE DUCTWORK VENTING THROUGH ROOF. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
7. EXISTING CONCENTRIC VENTS TO REMAIN.
8. THERMOSTAT TO BE REMOVED AND RELOCATED. REFER TO H2.2.
9. DISCONNECT IT ROOM SUPPLY DUCT FROM MAIN. REFER TO H2.2.

SECOND FLOOR DEMOLITION PLAN - PHASE 2
SCALE: 1/8" = 1'-0"

FIRST FLOOR DEMOLITION PLAN - PHASE 2
SCALE: 1/8" = 1'-0"



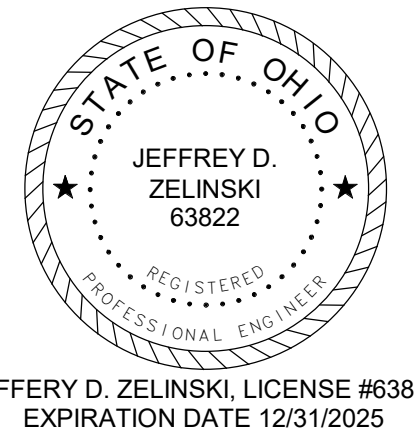
ATTIC DEMOLITION PLAN - PHASE 2
SCALE: 1/8" = 1'-0"



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

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PHASE 2 - DEMOLITION PLANS

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H2.1

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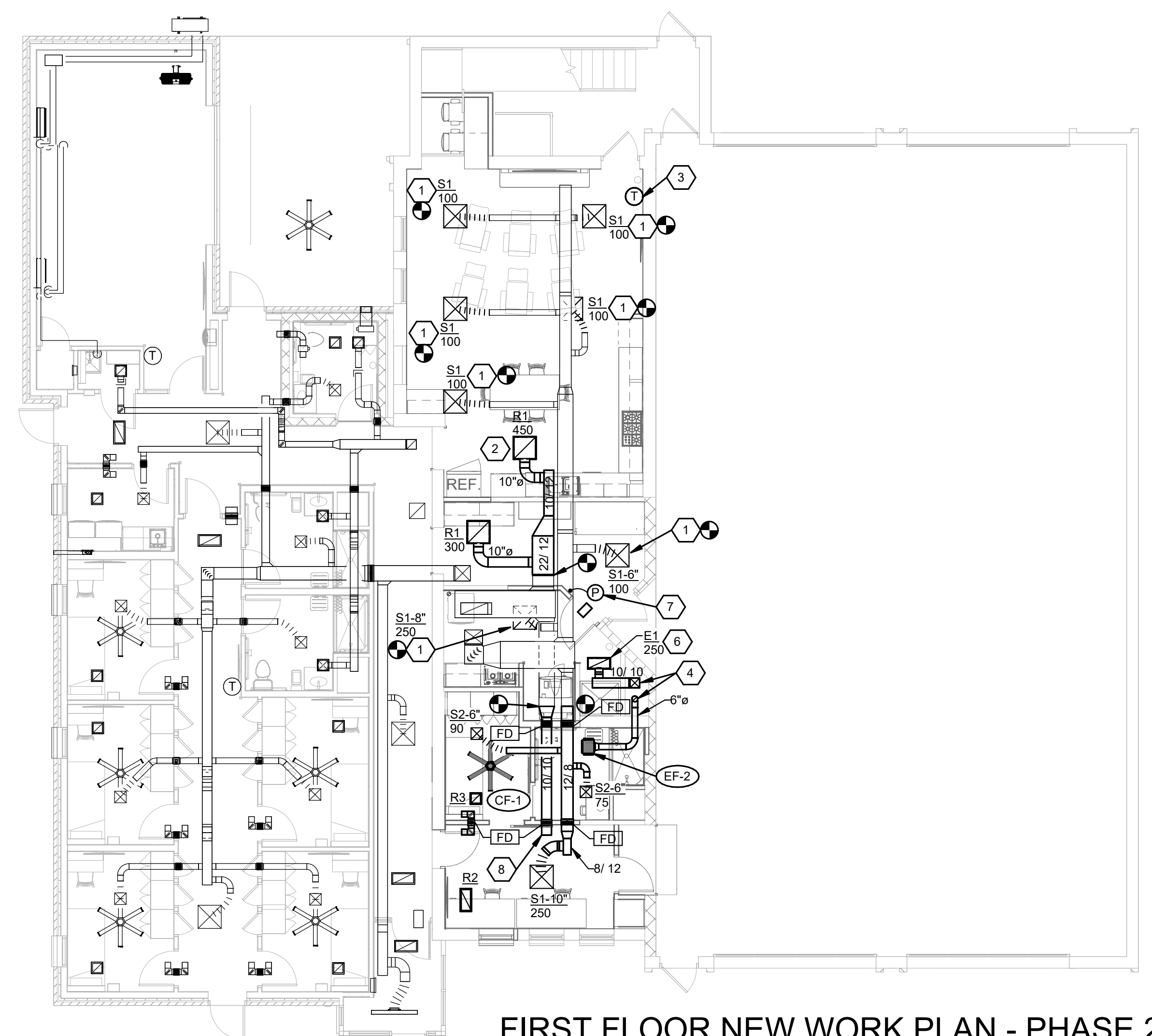
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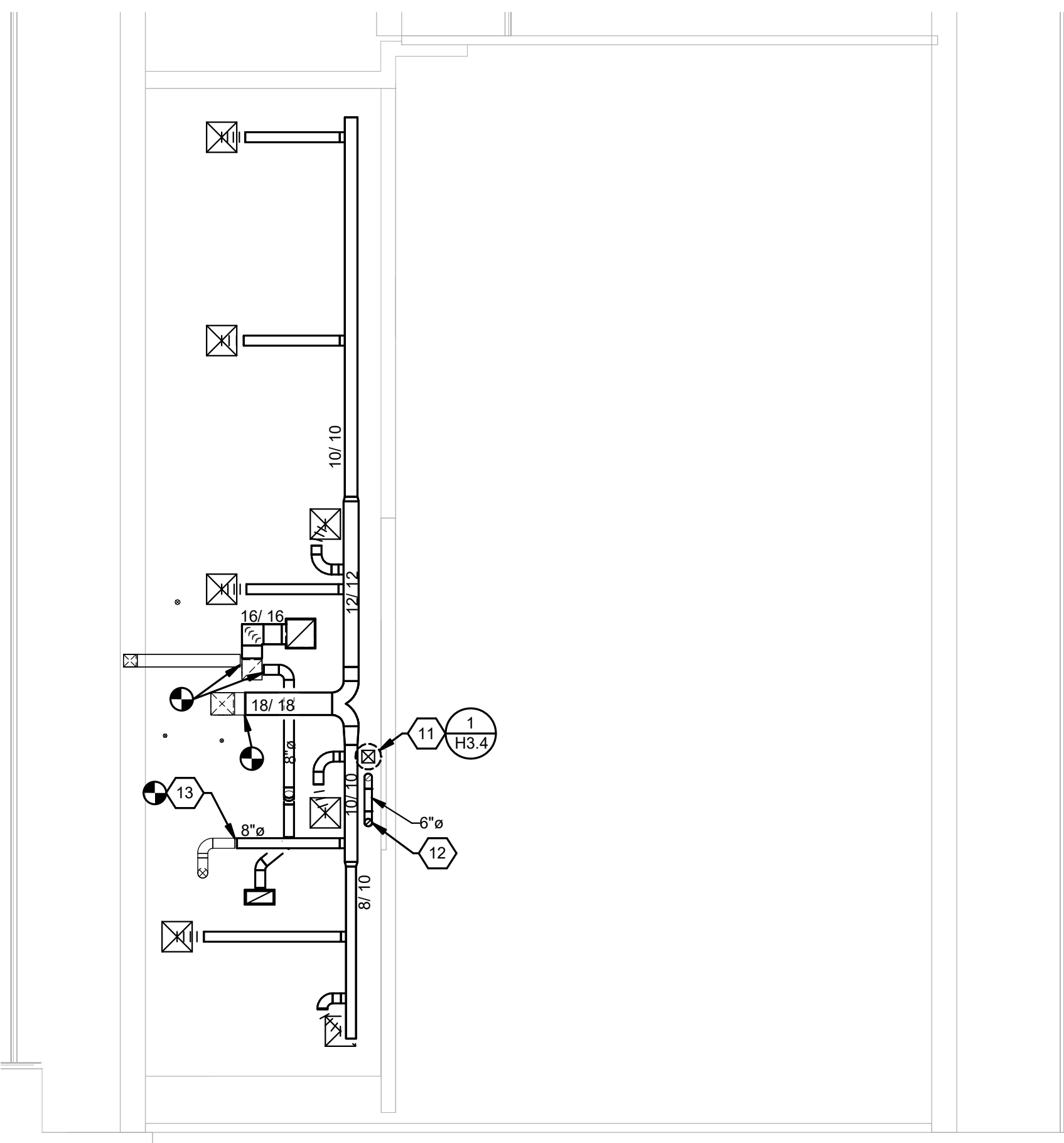
- CONSTRUCTION NOTES**
1. NEW AIR DEVICE. COORDINATE FINAL LOCATION IN NEW CEILING. PROVIDE NEW FLEXIBLE DUCTWORK AS REQUIRED FOR INSTALLATION. FIELD VERIFY NECK DIAMETER PRIOR TO ORDERING.
 2. NEW AIR DEVICE. COORDINATE FINAL LOCATION IN NEW CEILING.
 3. RELOCATED THERMOSTAT.
 4. UP TO FLOOR ABOVE.
 5. EUH-1 ON ROOF.
 6. DEVICE MOUNTED IN DRYWALL CEILING.
 7. PRESSURE TRANSDUCER. REFER TO DETAIL 7, H3.4.
 8. RETURN DUCT OPEN TO PLENUM.
 9. TRANSFER DUCT. AIR DEVICES MOUNTED ABOVE DOOR.
 10. SUPPLY DUCT DROPS TO 2' A.F.F. TERMINATE OPEN TO ROOM. PROVIDE MANUAL BALANCING DAMPER IN DROP, BALANCE TO 100 CFM.
 11. NEW FAN MOUNTED ON ROOF.
 12. EXHAUST DUCT UP TO ROOF. PROVIDE PITCHED ROOF CAP EQUAL TO GREENHECK #RJ-6X9. COLOR BLACK.
 13. EXTEND AND CONNECT IT SUPPLY DUCT TO NEW MAIN IN ATTIC.



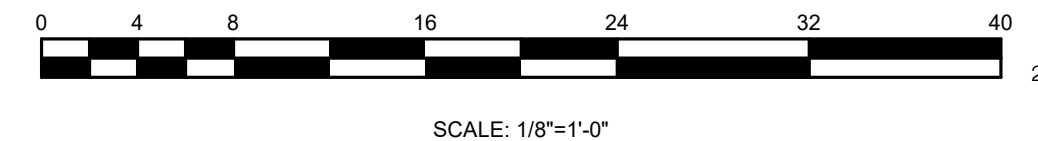
SECOND FLOOR NEW WORK PLAN - PHASE 2
SCALE: 1/8" = 1'-0"



FIRST FLOOR NEW WORK PLAN - PHASE 2
SCALE: 1/8" = 1'-0"



ATTIC NEW WORK PLAN - PHASE 2
SCALE: 1/8" = 1'-0"



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

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Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

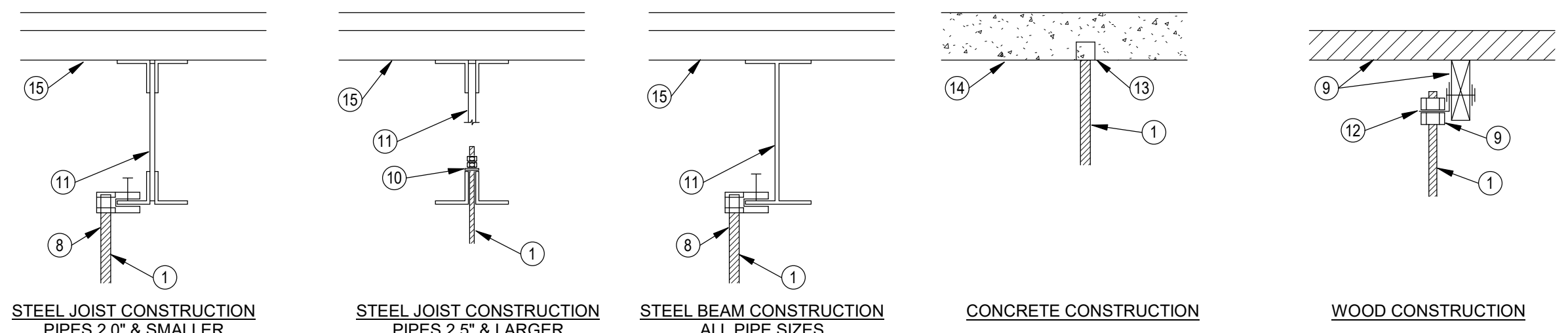
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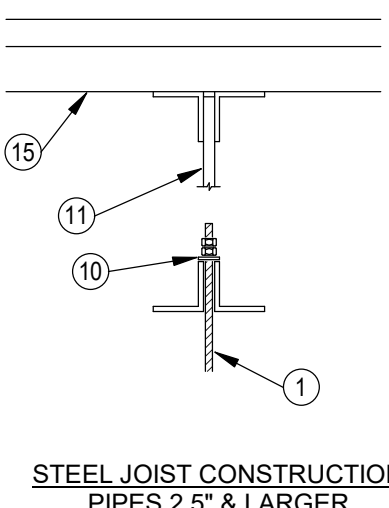
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TITLE
PHASE 2 - NEW WORK PLANS

SHEET NO.
H2.2

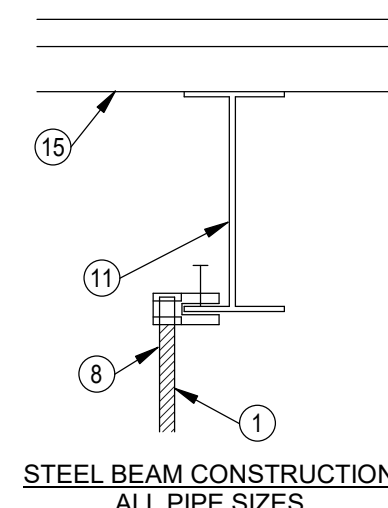
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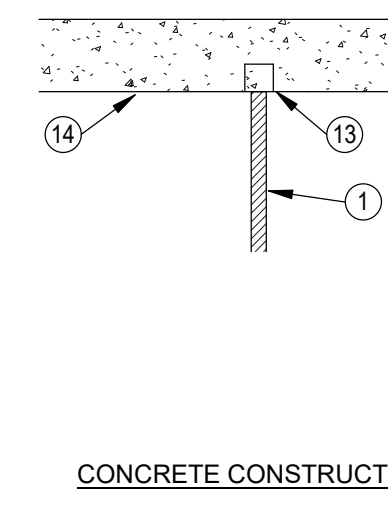
STEEL JOIST CONSTRUCTION
PIPES 2.0" & SMALLER



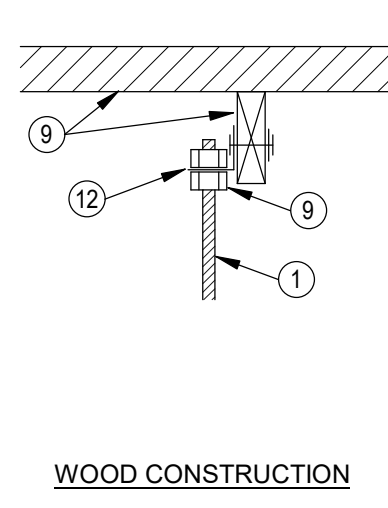
STEEL JOIST CONSTRUCTION
PIPES 2.5" & LARGER



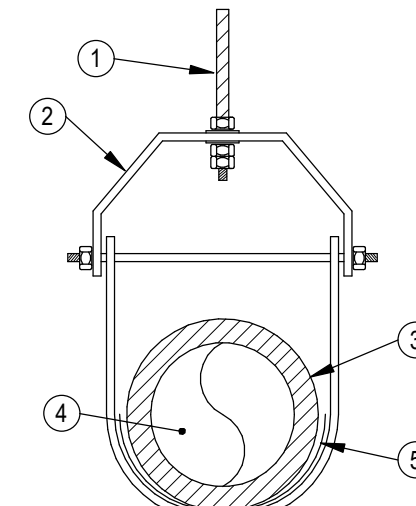
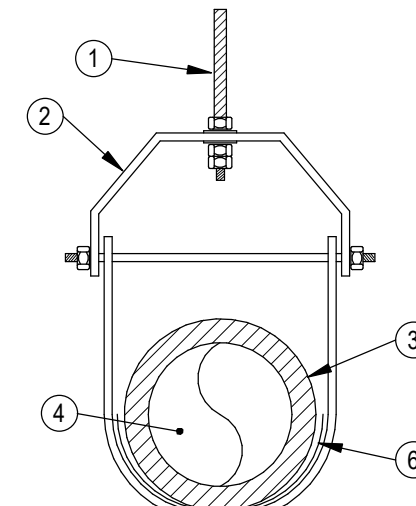
STEEL BEAM CONSTRUCTION
ALL PIPE SIZES



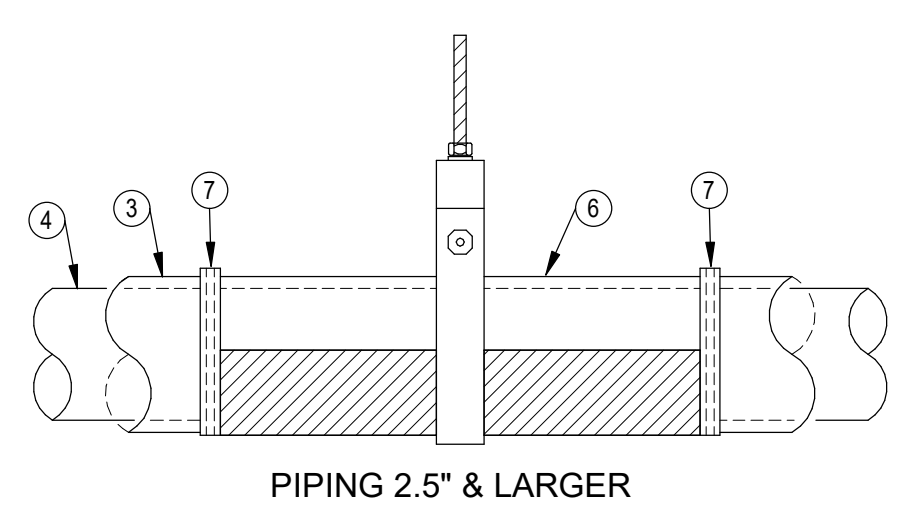
CONCRETE CONSTRUCTION



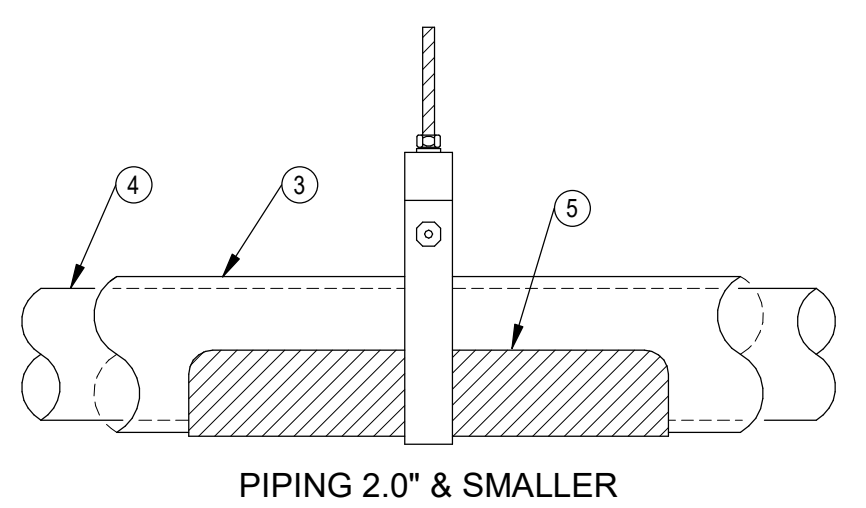
WOOD CONSTRUCTION



- 1 GALVANIZED THREADED ROD. ADJUST NUTS & RODS FOR PROPER ELEVATION.
- 2 STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG. 260.
- 3 PIPE INSULATION.
- 4 PIPE.
- 5 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD. EQUAL TO ANVIL FIG. 168. CONTINUOUS INSULATION.
- 6 18" LONG INSULATED PIPE SADDLES. BUCKAROO'S TRU-BALANCE 3300E OR EQUAL. PROVIDE WITH 3.75 LB. DENSITY PHENOLIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD. SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
- 7 PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER. SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.
- 8 THREADED ROD BEAM CLAMP.
- 9 WOOD DECK & BEAM.
- 10 RETAINING NUTE & WASHERS.
- 11 STEEL JOIST OR BEAM.
- 12 90 DEGREE SIDE BEAM BRACKET WITH THREADED ROD INTO WOOD.
- 13 CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
- 14 CONCRETE SLAB OR PLANK.
- 15 METAL DECKING. DIRECT ATTACHMENT TO DECKING IS PROHIBITED. PROVIDE SUPPLEMENTAL STEEL ANGLES OR UNISTRUT WHERE REQUIRED FOR PROPER HANGER SPACING OR IN LIEU OF ATTACHMENTS SHOWN.

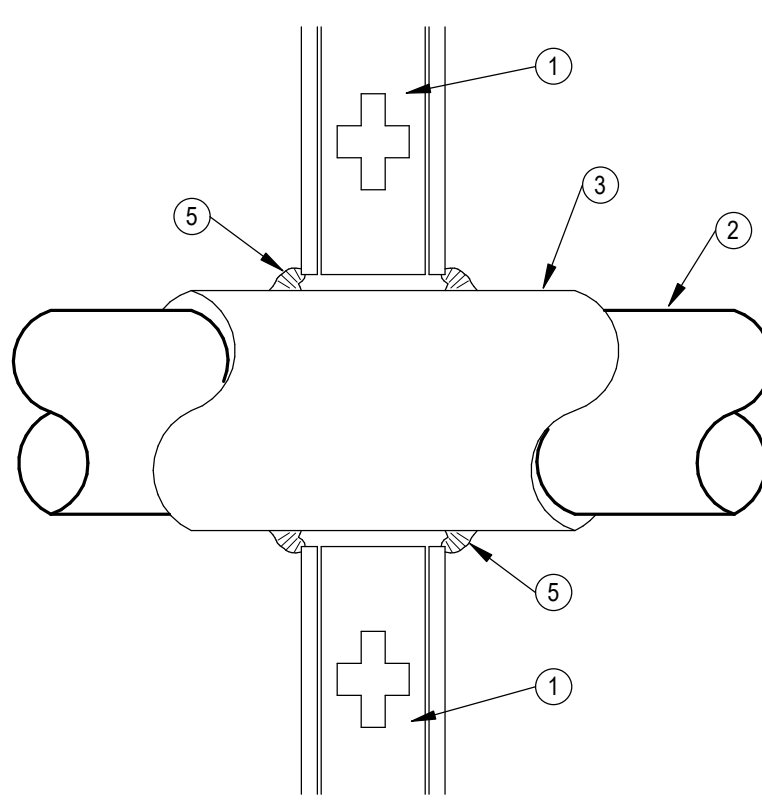


PIPING 2.5" & LARGER

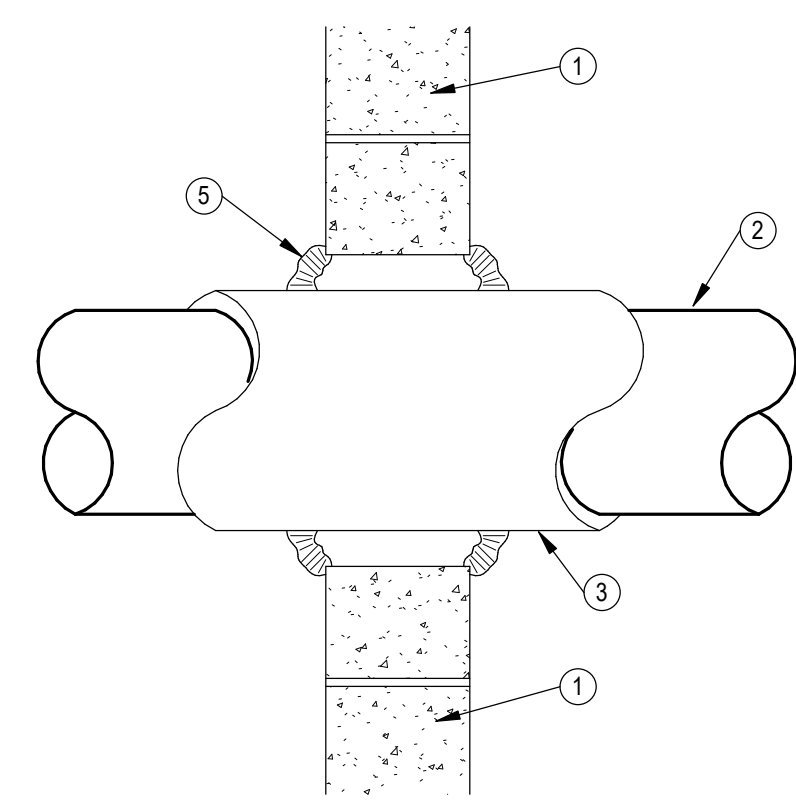


PIPING 2.0" & SMALLER

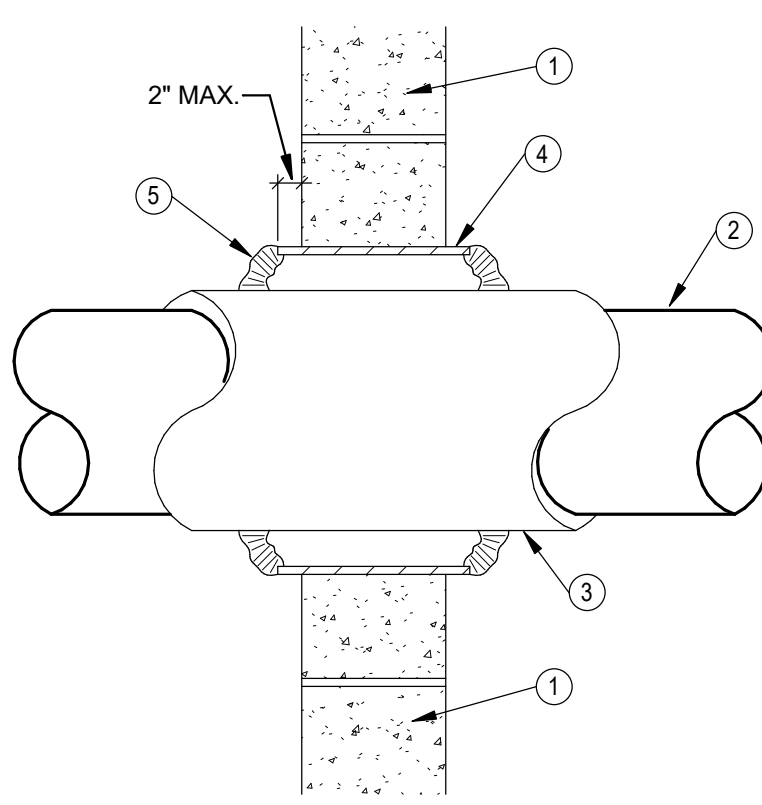
1 PIPE HANGERS
N.T.S. CLEVIS HANGER, INSULATED PIPE



GYPSUM CONSTRUCTION
ALL PIPE SIZES



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

- 1 FULL HEIGHT INTERIOR WALL.
- 2 PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING. SEE SCHEDULE FOR THICKNESS.
- 4 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
- 5 CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

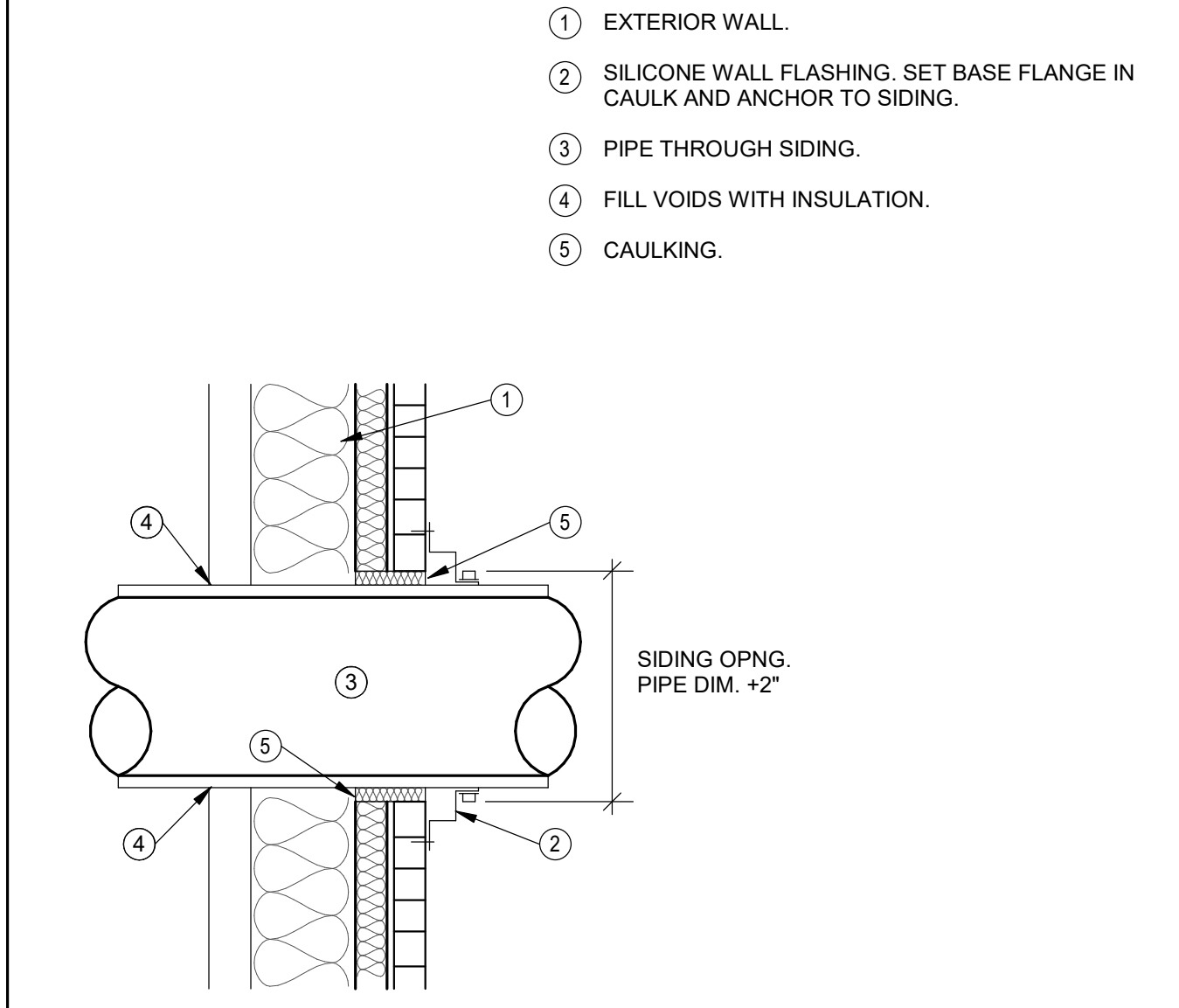
GENERAL NOTE:

A. SLEEVES ARE NOT REQUIRED IN THE FOLLOWING:

- IN FLOOR SLABS ON GRADE.
- IN STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS WHICH ARE NOT FIRE RATED.
- FOR UNINSULATED PIPE PASSING THRU MASONRY WALLS AND PARTITIONS AND STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS. SLEEVES ARE REQUIRED HOWEVER, FOR UNINSULATED CONDENSER WATER PIPING AND HYDRONIC HEAT PUMP PIPING FOR WHICH EXPANSION, CONTRACTION AND OTHER PIPE MOVEMENT CAN BE EXPECTED.
- IN CORE DRILLED OPENINGS IN SOLID CONCRETE NOT REQUIRING WATER PROTECTION. SLEEVES ARE REQUIRED, HOWEVER, AT CORE DRILLING THRU HOLLOW PRE-CAST SLABS AND CONCRETE BLOCK WALLS, TO FACILITATE CONTAINMENT OF REQUIRED FIRESTOPPING MATERIAL.
- IN LARGE FLOOR OPENINGS FOR MULTIPLE PIPE AND DUCT RISERS WHICH ARE WITHIN A FIRE RATED SHAFT, UNLESS THE OPENING IS TO BE CLOSED OFF WITH CONCRETE OR OTHER MATERIAL AFTER PIPE ARE SET.

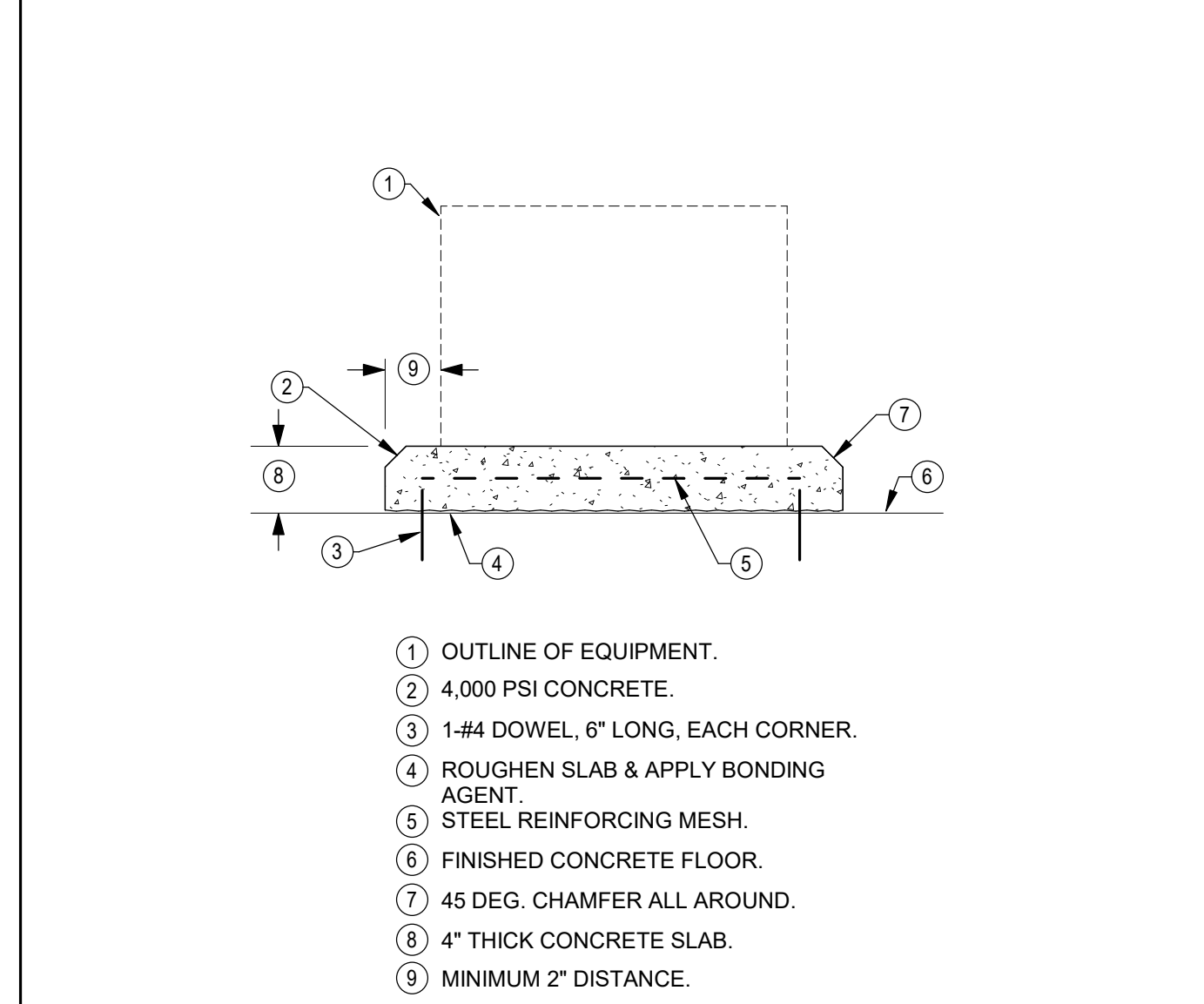
B. WHERE UNINSULATED PIPES REQUIRING NO PIPE SLEEVES PASS THRU NON-FIRE RATED FLOOR, WALL OR PARTITION, THE ANNULAR SPACE SHALL BE CLOSED WITH MATERIAL AND METHODS COMPATIBLE WITH THE WALL OR PARTITION MATERIAL (TYPE M MASONRY GROUT, DRYWALL JOINT COMPOUND, PLASTER, ETC.).

2 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



- 1 EXTERIOR WALL.
- 2 SILICONE WALL FLASHING. SET BASE FLANGE IN CAULK AND ANCHOR TO SIDING.
- 3 PIPE THROUGH SIDING.
- 4 FILL VOIDS WITH INSULATION.
- 5 CAULKING.

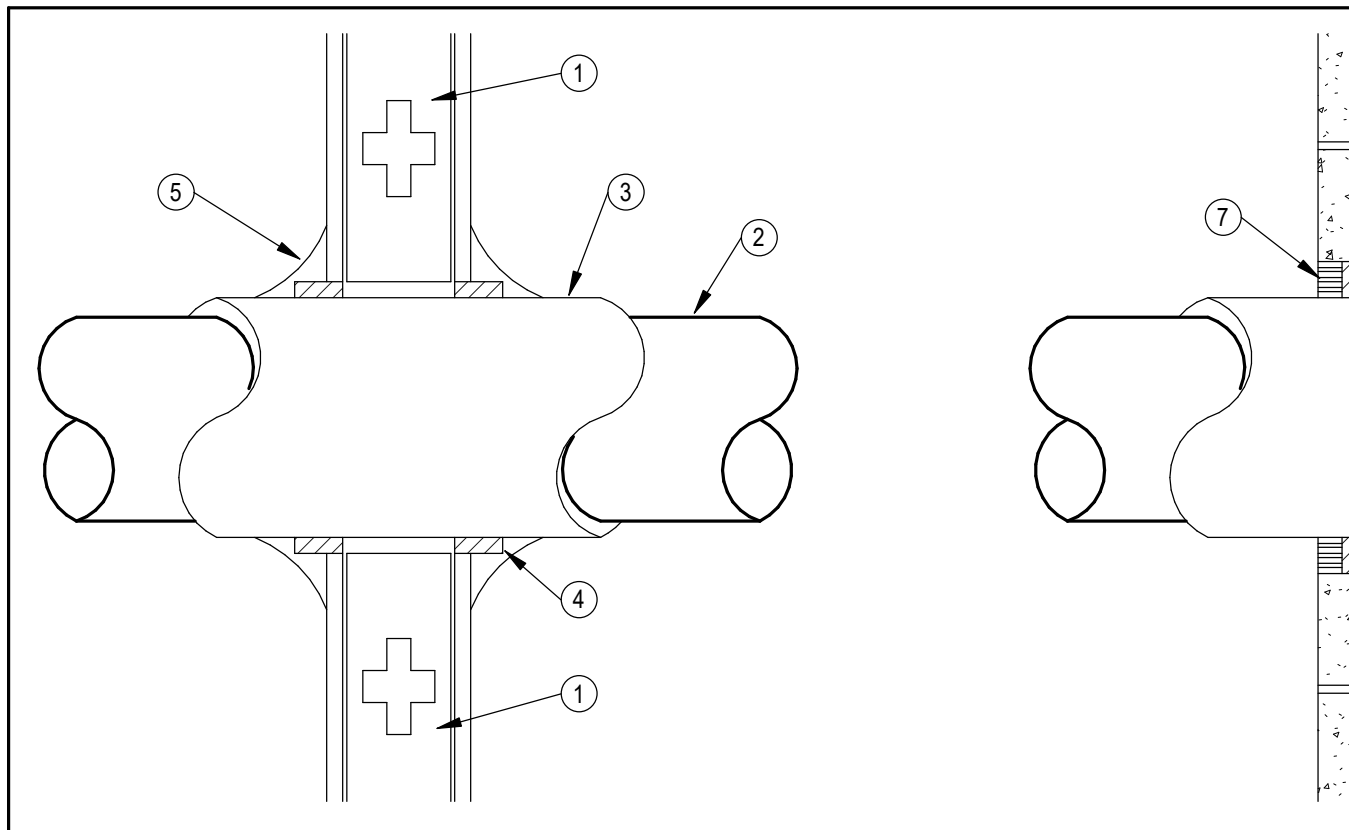
3 PIPE PENETRATIONS EXTERIOR WALL
N.T.S.



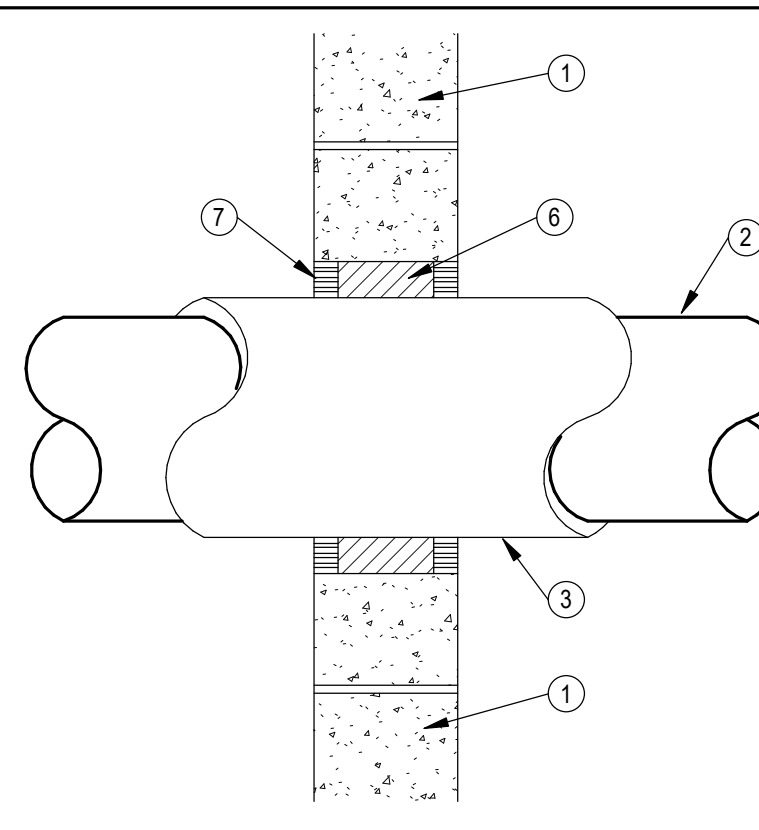
- 1 OUTLINE OF EQUIPMENT.
- 2 4,000 PSI CONCRETE.
- 3 1-#4 DOWEL, 6" LONG, EACH CORNER.
- 4 ROUGHEN SLAB & APPLY BONDING AGENT.
- 5 STEEL REINFORCING MESH.
- 6 FINISHED CONCRETE FLOOR.
- 7 45 DEG. CHAMFER ALL AROUND.
- 8 4" THICK CONCRETE SLAB.
- 9 MINIMUM 2" DISTANCE.

NOTE: OVERALL DIMENSION TO BE DETERMINED BY CONTRACTOR.

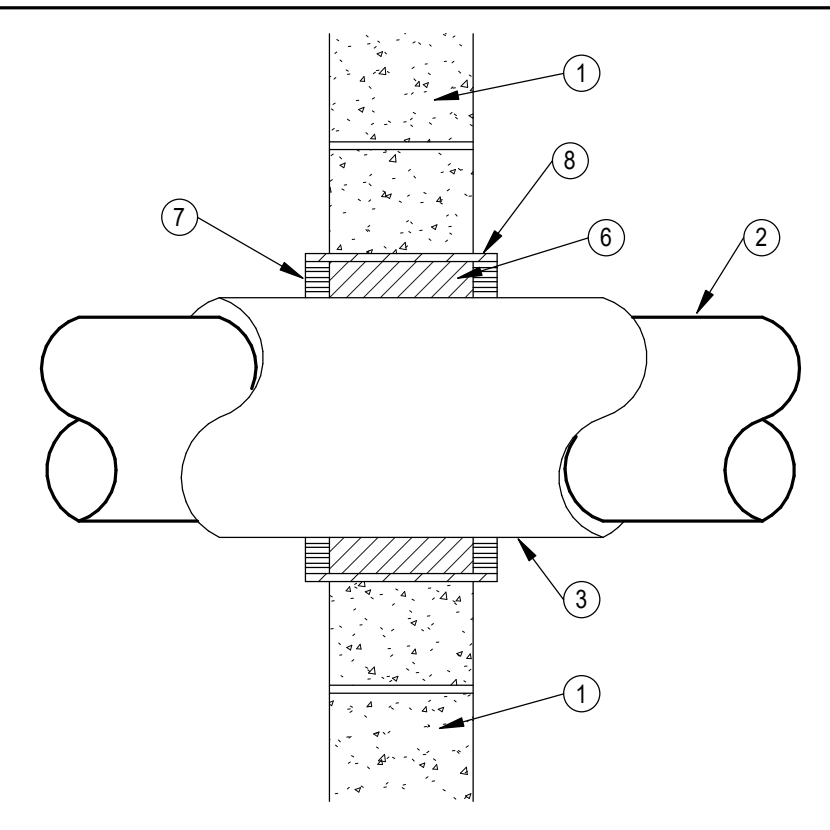
4 INTERIOR CONCRETE EQUIPMENT PAD
N.T.S.



GYPSUM CONSTRUCTION
ALL PIPE SIZES



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



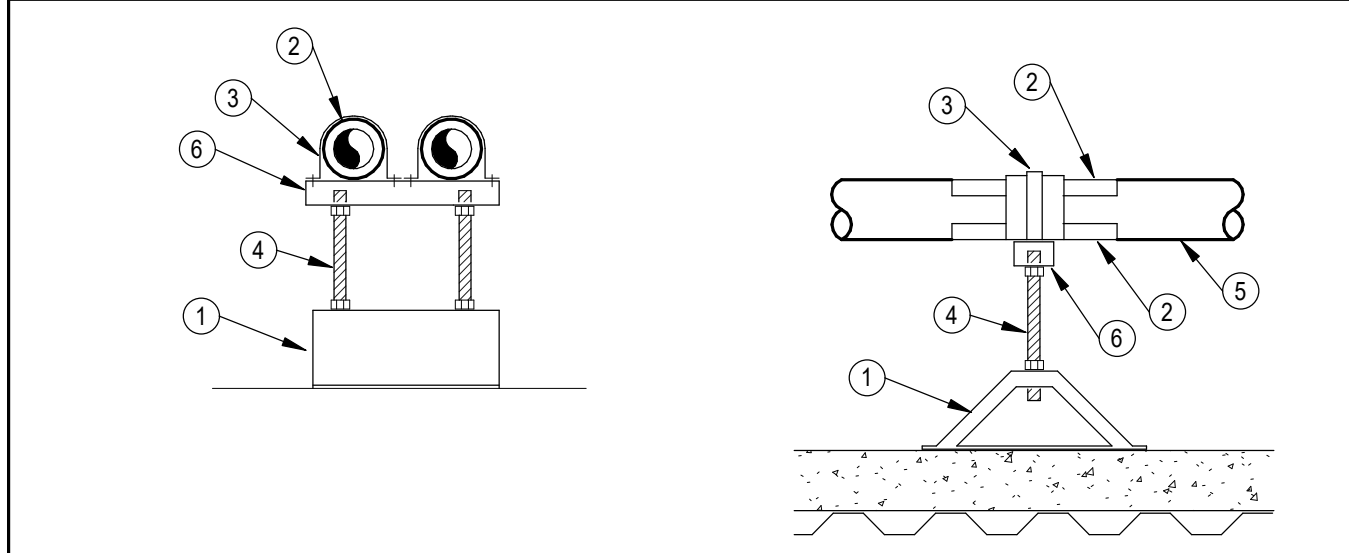
CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

- 1 RATED WALL ASSEMBLY.
- 2 METALLIC PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING. SEE SCHEDULE FOR THICKNESS.
- 4 APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
- 5 APPROVED FIRESTOPPING CAULK OR SEALANT.
- 6 PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
- 7 APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
- 8 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

FIRESTOPPING MATERIALS/INSTALLATION

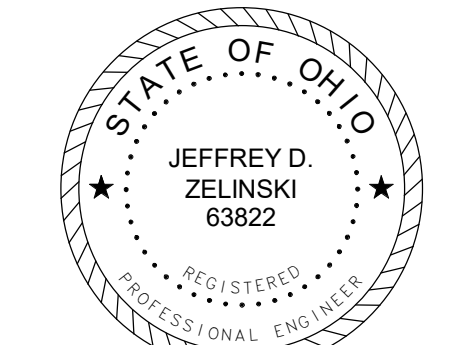
- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS OR HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

5 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.



- 1 PIPE SUPPORT ASSEMBLY - ERICO #CADDY PYRAMID ST SERIES OR EQUAL. SPACING PER MANUFACTURER'S RECOMMENDATIONS.
- 2 INSULATION SUPPORT SADDLE EQUAL TO BUCKAROO'S TRU-BALANCE.
- 3 PIPE CLAMP.
- 4 ADJUSTABLE THREADED ROD.
- 5 HOT OR CHILLED WATER PIPE WITH ALUMINUM ALL WEATHER JACKET.
- 6 HORIZONTAL UNISTRUT SUPPORT CHANNEL.

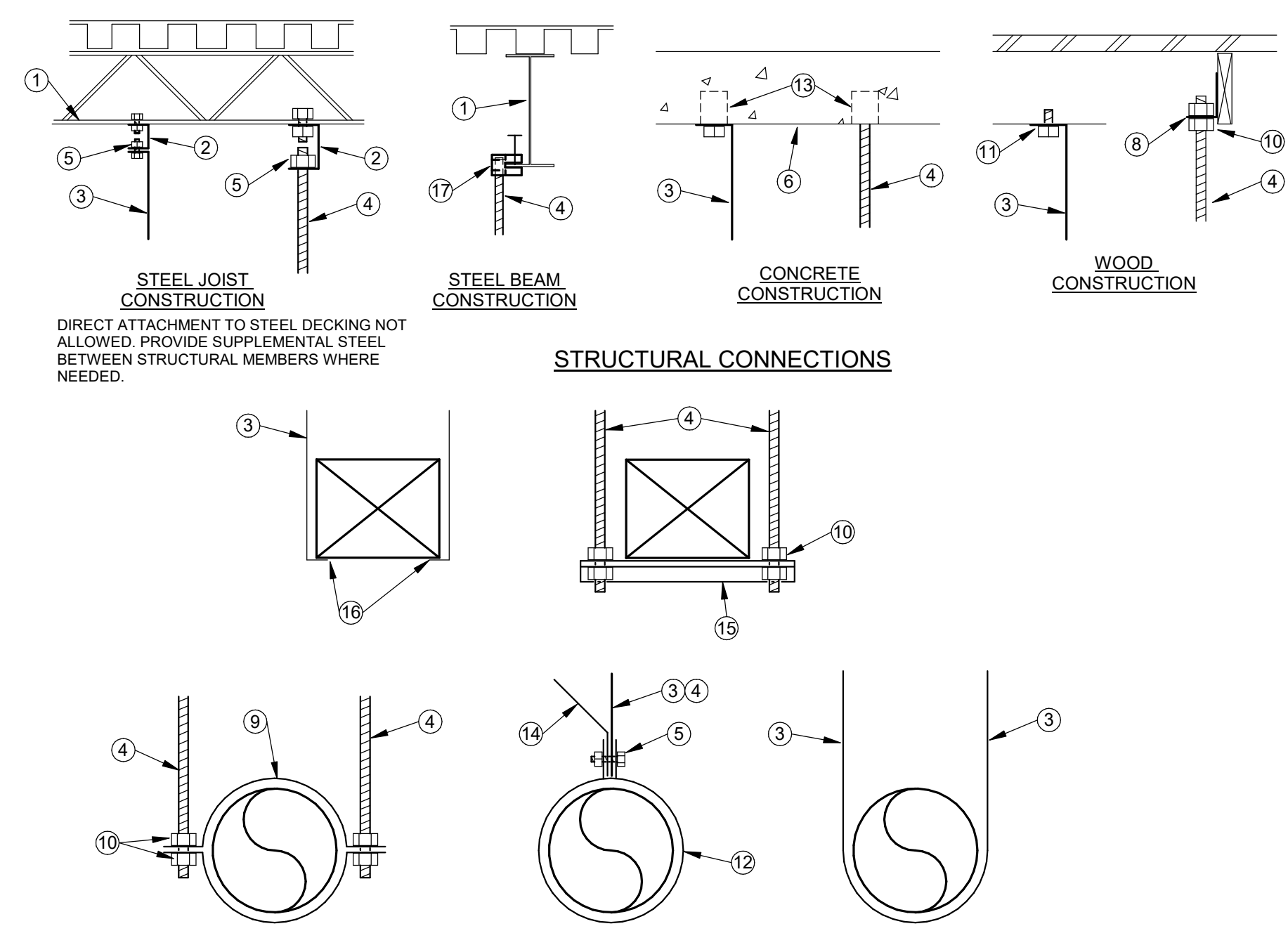
6 PIPE SUPPORT ROOF PIPE CADDY SUPPORT
N.T.S.



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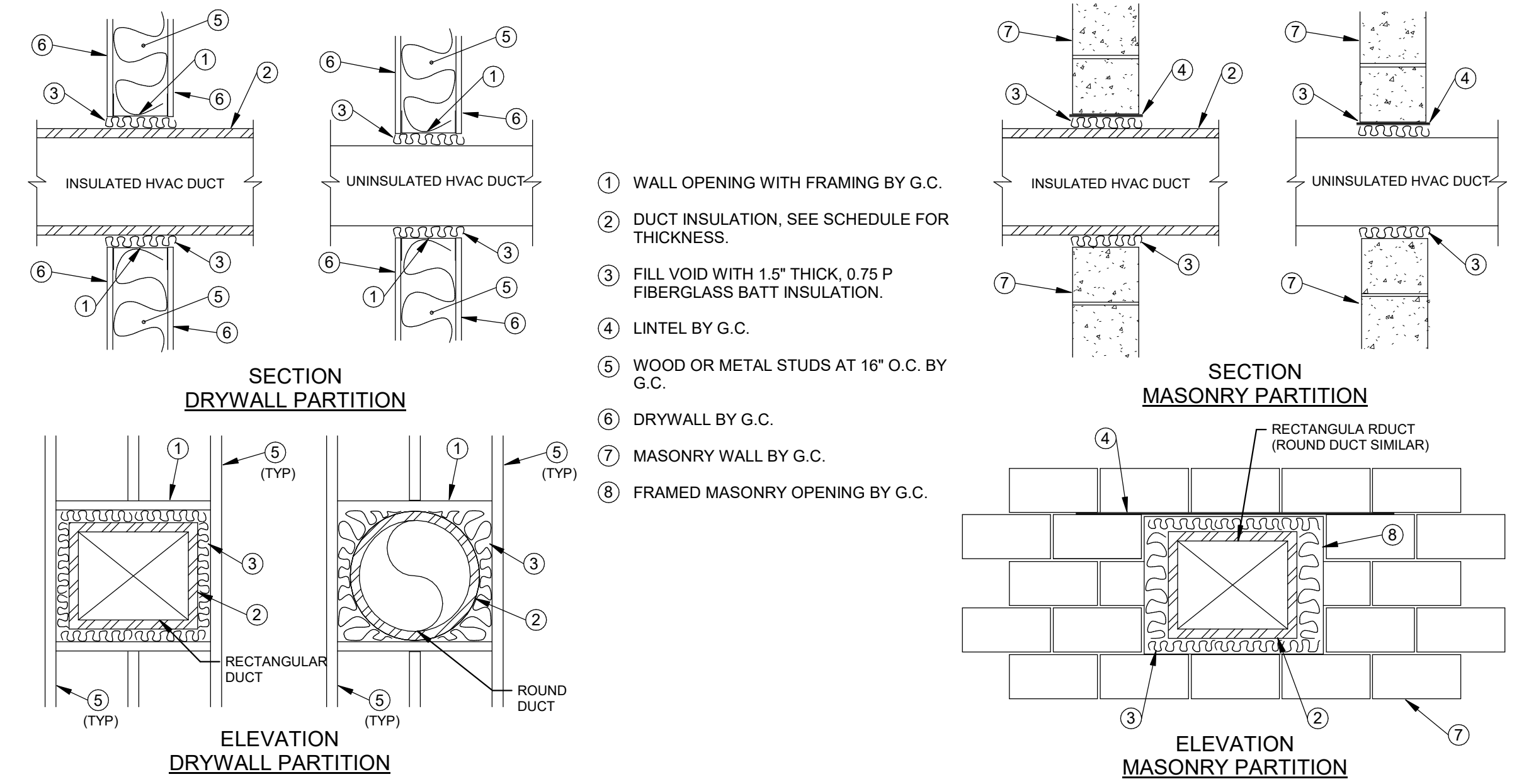
STRUCTURAL CONNECTIONS

DUCT CONNECTIONS

- 1 STEEL JOIST OR BEAM.
- 2 UNISTRUT CHANNEL SPANNING TWO JOIST OR BEAMS. ATTACH TO BOTTOM CHORDS OF TWO BEAMS OR JOIST WITH "C" CLAMP.
- 3 GALVANIZED SHEETMETAL STRAP HANGER.
- 4 GALVANIZED THREADED ROD.
- 5 GALVANIZED BOLT & NUT.
- 6 CONCRETE SLAB.
- 7 WOOD DECK & BEAM.
- 8 STEEL ANGLE CLIP ENGINEERED FASTENER FOR THREADED ROD INTO WOOD.
- 9 TWO GALVANIZED BAND HANGERS.
- 10 RETAINING NUTS & WASHERS.
- 11 ATTACH TO BOTTOM OF WOOD BEAM OR JOIST WITH LAG BOLT.
- 12 ONE PIECE GALVANIZED STEEL BAND HANGER.
- 13 CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
- 14 SEISMIC SWAY BRACE ATTACHED TO STRUCTURE.
- 15 PAINTED STEEL UNISTRUT CHANNEL.
- 16 GALVANIZED STEEL RESTRAINT PER SMACNA REQUIREMENTS.
- 17 THREADED ROD BEAM CLAMP.

NOTE:
ALL HANGERS & SUPPORT OF DUCT SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS SECOND ADDITION - 1995.

1 DUCT HANGERS & SUPPORTS METAL STRAP & ROD HANGERS
N.T.S.



SECTION DRYWALL PARTITION

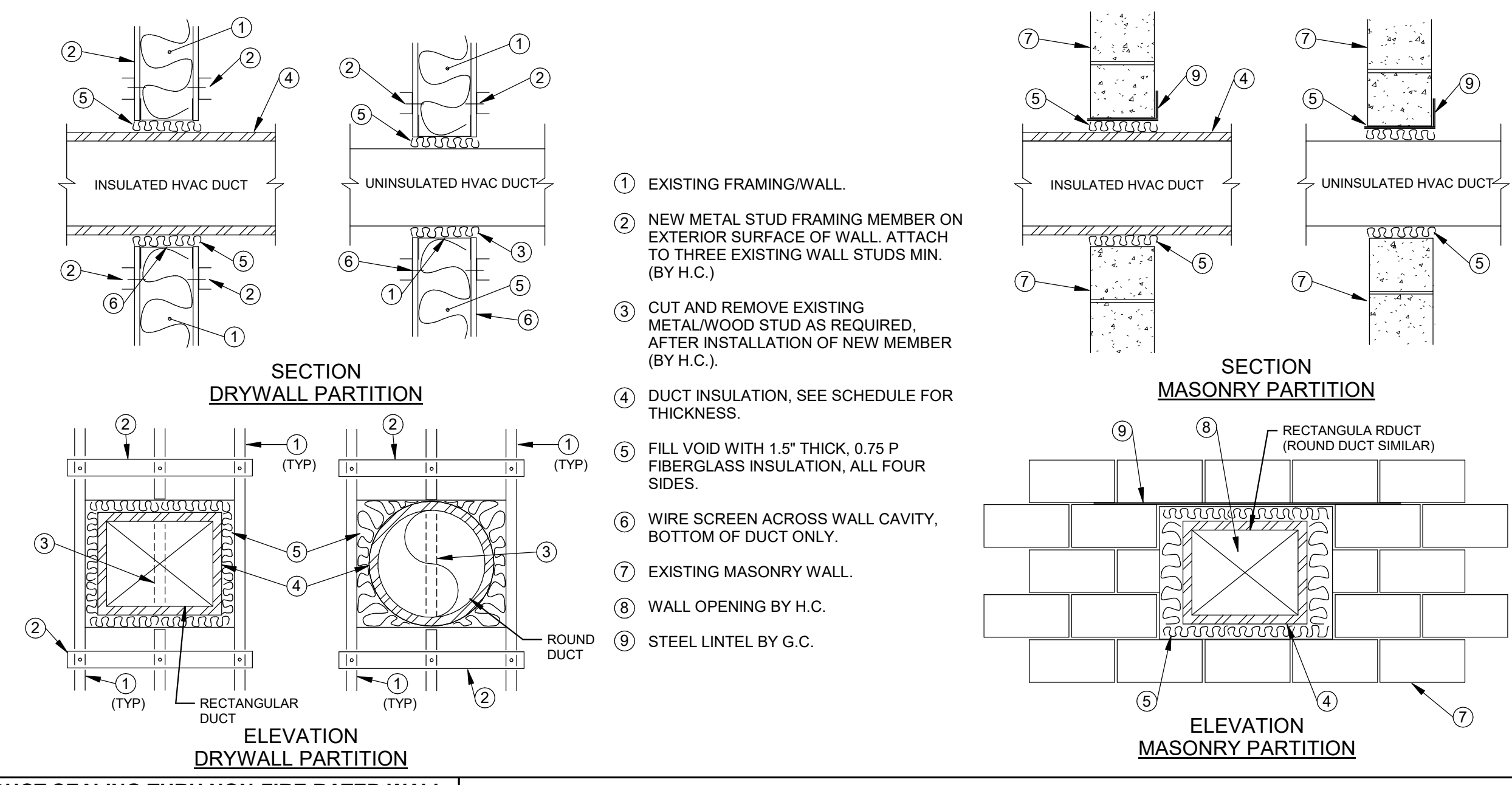
SECTION MASONRY PARTITION

ELEVATION DRYWALL PARTITION

ELEVATION MASONRY PARTITION

- 1 WALL OPENING WITH FRAMING BY G.C.
- 2 DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
- 3 FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS BATT INSULATION.
- 4 LINTEL BY G.C.
- 5 WOOD OR METAL STUDS AT 16" O.C. BY G.C.
- 6 DRYWALL BY G.C.
- 7 MASONRY WALL BY G.C.
- 8 FRAMED MASONRY OPENING BY G.C.

2 DUCT SEALING THRU NON-FIRE RATED WALL *NEW CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"
N.T.S.



SECTION DRYWALL PARTITION

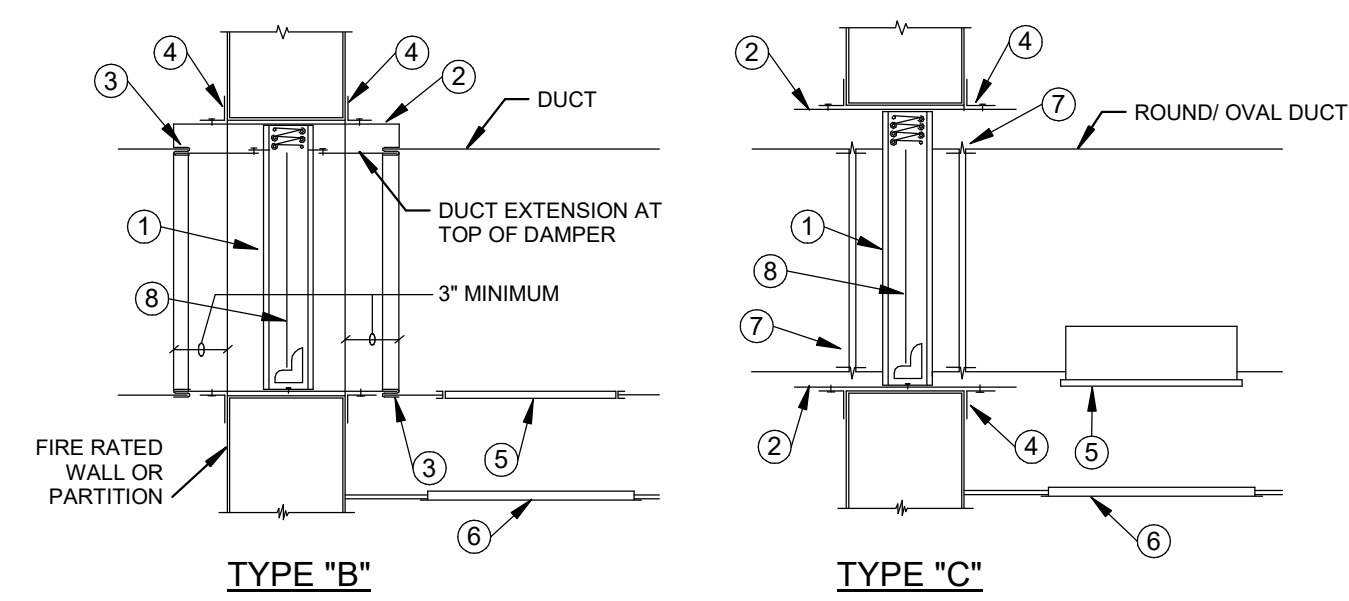
SECTION MASONRY PARTITION

ELEVATION DRYWALL PARTITION

ELEVATION MASONRY PARTITION

- 1 EXISTING FRAMING/WALL.
- 2 NEW METAL STUD FRAMING MEMBER ON EXTERIOR SURFACE OF WALL. ATTACH TO THREE EXISTING WALL STUDS MIN. (BY H.C.)
- 3 CUT AND REMOVE EXISTING METAL/WOOD STUD AS REQUIRED, AFTER INSTALLATION OF NEW MEMBER (BY H.C.)
- 4 DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
- 5 FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS INSULATION, ALL FOUR SIDES.
- 6 WIRE SCREEN ACROSS WALL CAVITY, BOTTOM OF DUCT ONLY.
- 7 EXISTING MASONRY WALL.
- 8 WALL OPENING BY H.C.
- 9 STEEL LINTEL BY G.C.

3 DUCT SEALING THRU NON-FIRE RATED WALL *EXISTING CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"
N.T.S.



TYPE "B"

TYPE "C"

GENERAL NOTES

- FIRE DAMPERS SHALL BE UL CLASSIFIED.
- FIRE DAMPERS SHALL BE 1.5 HOUR RATED FOR 2 HOUR RATED WALLS OR LESS, 3 HOUR FIRE RATED FOR 3 HOUR WALLS.
- FIRE DAMPERS SHALL BE DYNAMIC RATED, CURTAIN TYPE, SPRING OPERATED
- DIFFERENTIAL PRESSURE RATING OF 4" MINIMUM, HIGHER WHERE REQUIRED TO MATCH DUCT CONSTRUCTION.
- 2000 FPM MAX. AIRFLOW RATING, EXCEPT 4000 FPM WHERE DESIGN DUCT VELOCITY IS OVER 2000 FPM.
- FIRE CLOSURE FUSIBLE LINK OF 165 DEG. F. EXCEPT WHERE REQUIRED TO BE HIGHER BY APPLICATION.
- GALVANIZED STEEL CONSTRUCTION IN GALVANIZED DUCT, STAINLESS STEEL IN OTHER APPLICATIONS.
- NOMINAL 4" STANDARD FRAME WIDTH.
- INSTALLATION OF FIRE DAMPERS AND ACCESSORIES INCLUDING INSULATION SHALL CONFORM TO NFPA 90A, SMACNA AND MANUFACTURER'S INSTRUCTIONS.
- DETAILS SHOW INSTALLATION OF FIRE DAMPER IN WALL. DAMPER INSTALLATION IN FLOOR SIMILAR. REFER TO PLANS FOR ACCESS LOCATION.

- 1 FIRE DAMPER TYPES -
TYPE "B" - BLADES STORED OUT OF AIR STREAM.
TYPE "C" - ROUND/OVAL DUCT, BLADES STORED OUT OF AIR STREAM. ATTACH TO SLEEVE PER SMACNA. MINIMUM 4 CONNECTIONS (2 ON EACH SIDE OF BLADE CHANNEL) PER SIDE, MAX. 6" APART - TACK WELD, #10 SCREWS, 0.25" BOLTS/NUTS OR 3/16" STEEL POP RIVETS.
- 2 SHEETMETAL WALL SLEEVE, SAME MATERIAL AS DUCT. SHEETMETAL GAUGE PER SMACNA. MAINTAIN REQUIRED CLEARANCE TO WALL.
- 3 DUCT/SLEEVE CONNECTION, BREAKAWAY TYPE.
- 4 RETAINING ANGLE ALL FOUR SIDES, 1.5"x1.5" LEGS (MIN.), GAUGE PER SMACNA. 1" MINIMUM OVERLAP OF WALL BEYOND OPENING. EXTENDED LEG MAY BE REQUIRED. BOLT, SCREW, OR TACK WELD TO WALL SLEEVE. SPACING OF FASTENERS PER SMACNA.
- 5 DUCT ACCESS PANEL OR DOOR - 18"x16" EXCEPT SMALLER WHERE LIMITED BY DUCT SIZE.
- 6 CEILING ACCESS PANEL IF CEILING IS NOT ACCESSIBLE.
- 7 ROUND DUCT COUPLING.
- 8 STAINLESS STEEL CLOSURE SPRING.

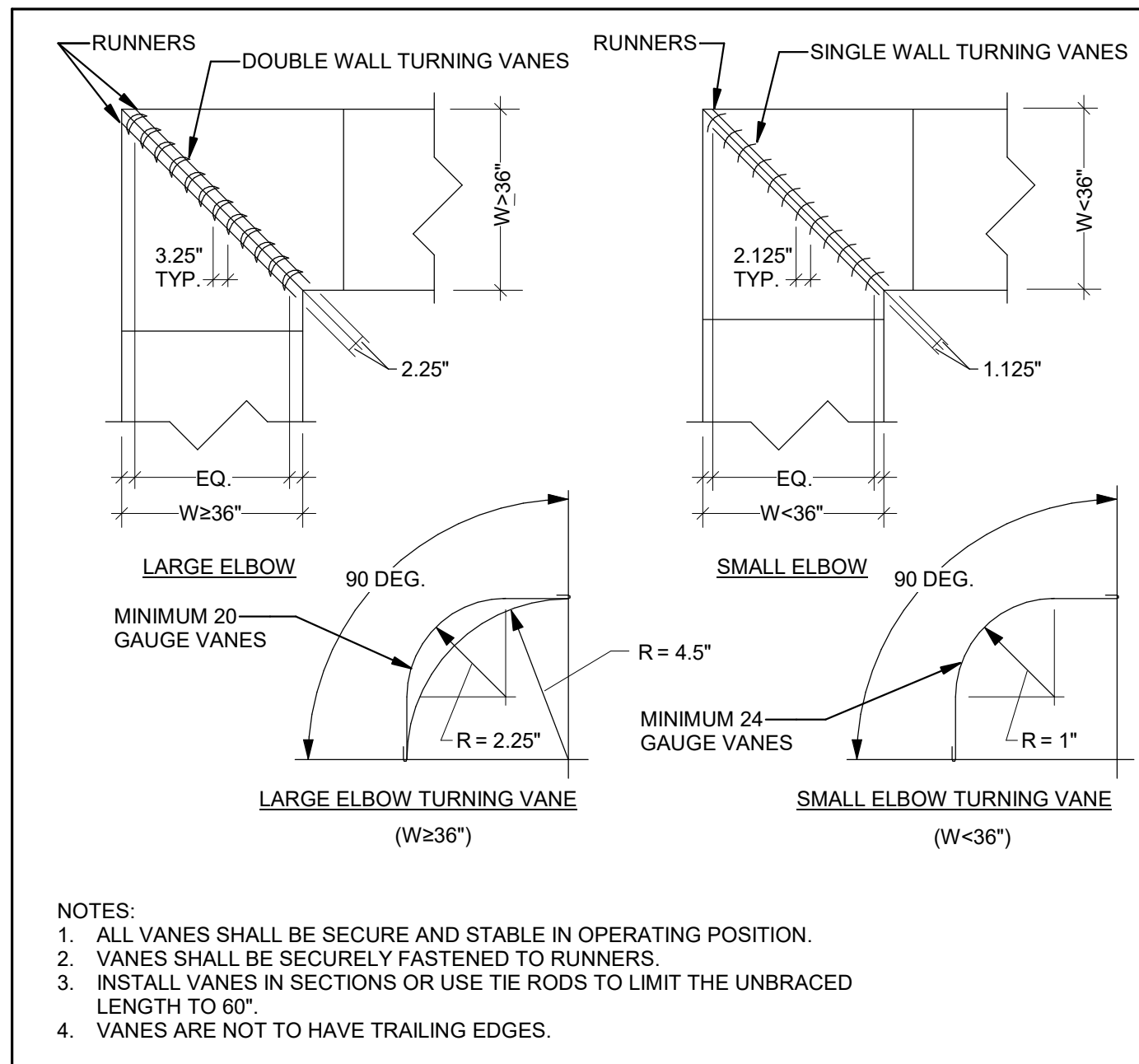
4 FIRE DAMPERS DETAIL
N.T.S.



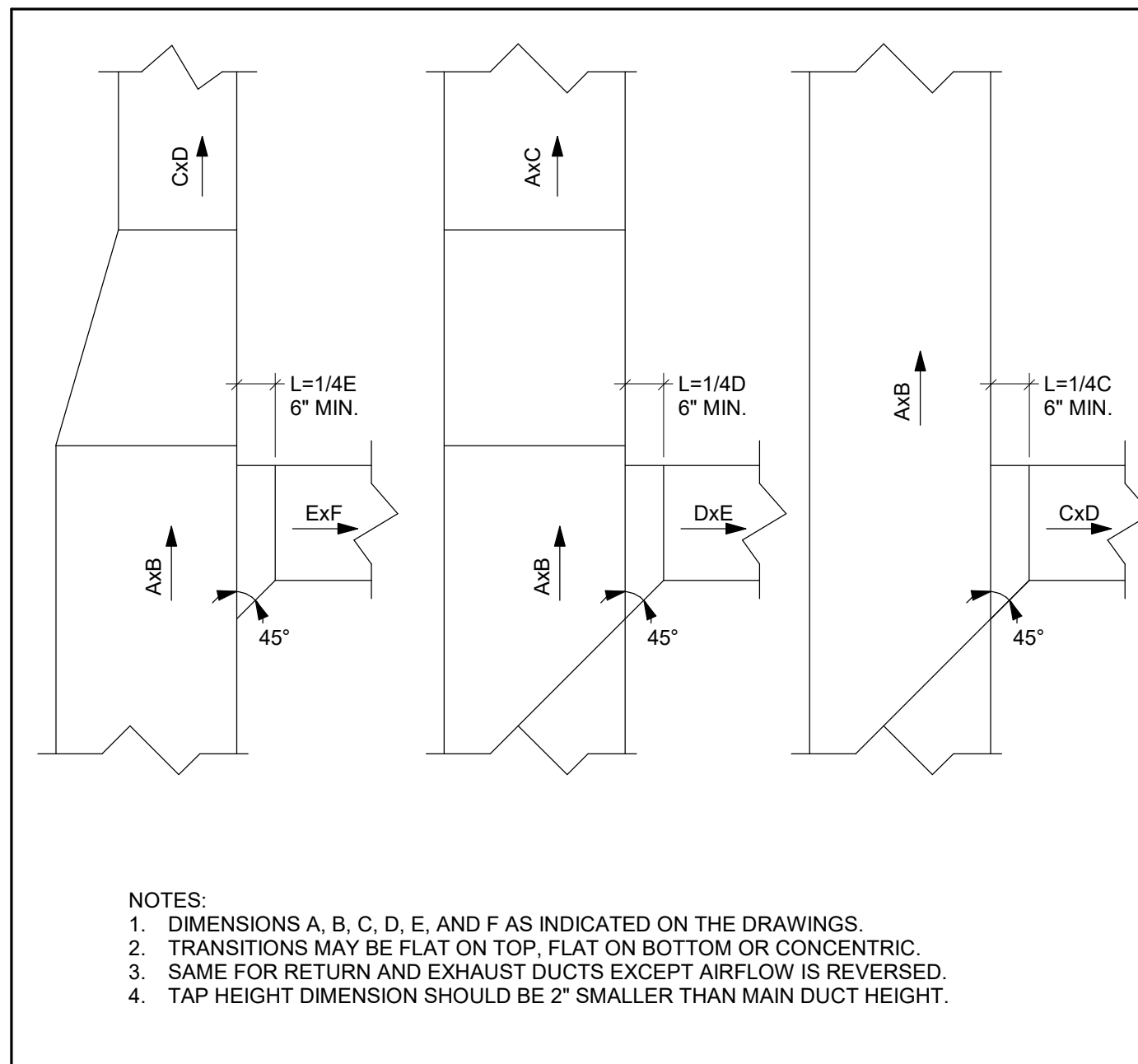
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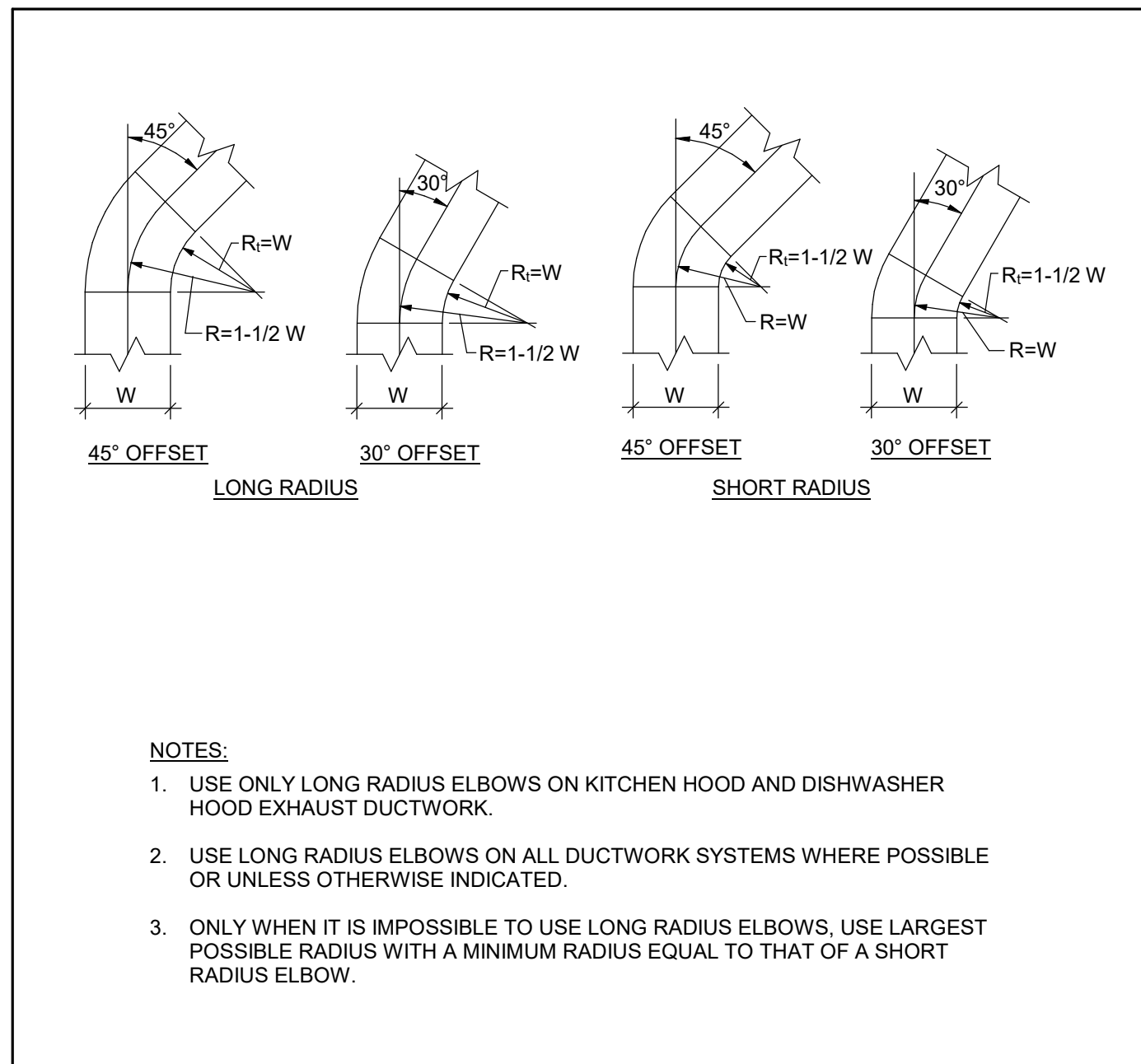
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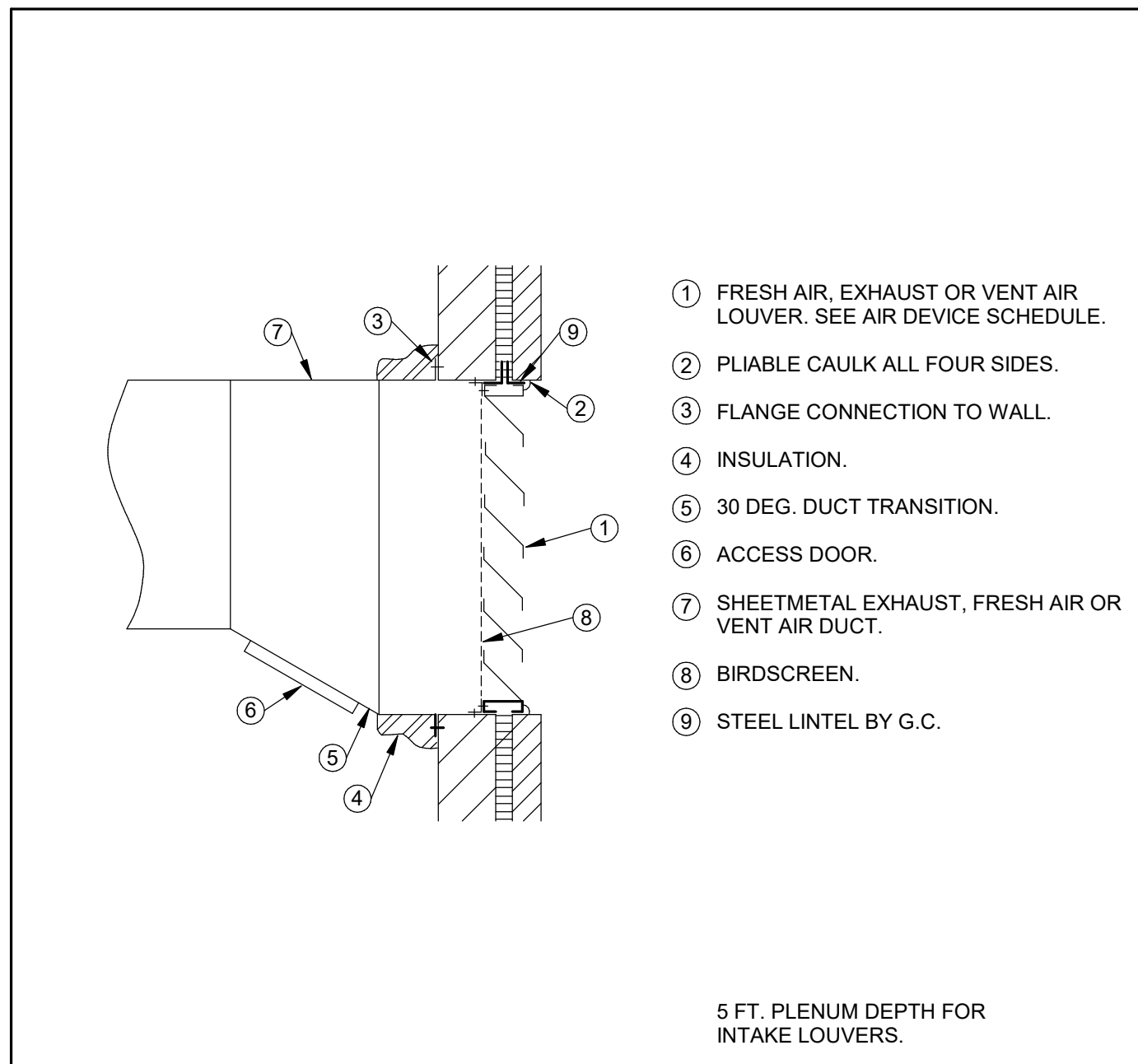
1 RECTANGULAR 90° MITERED ELBOW
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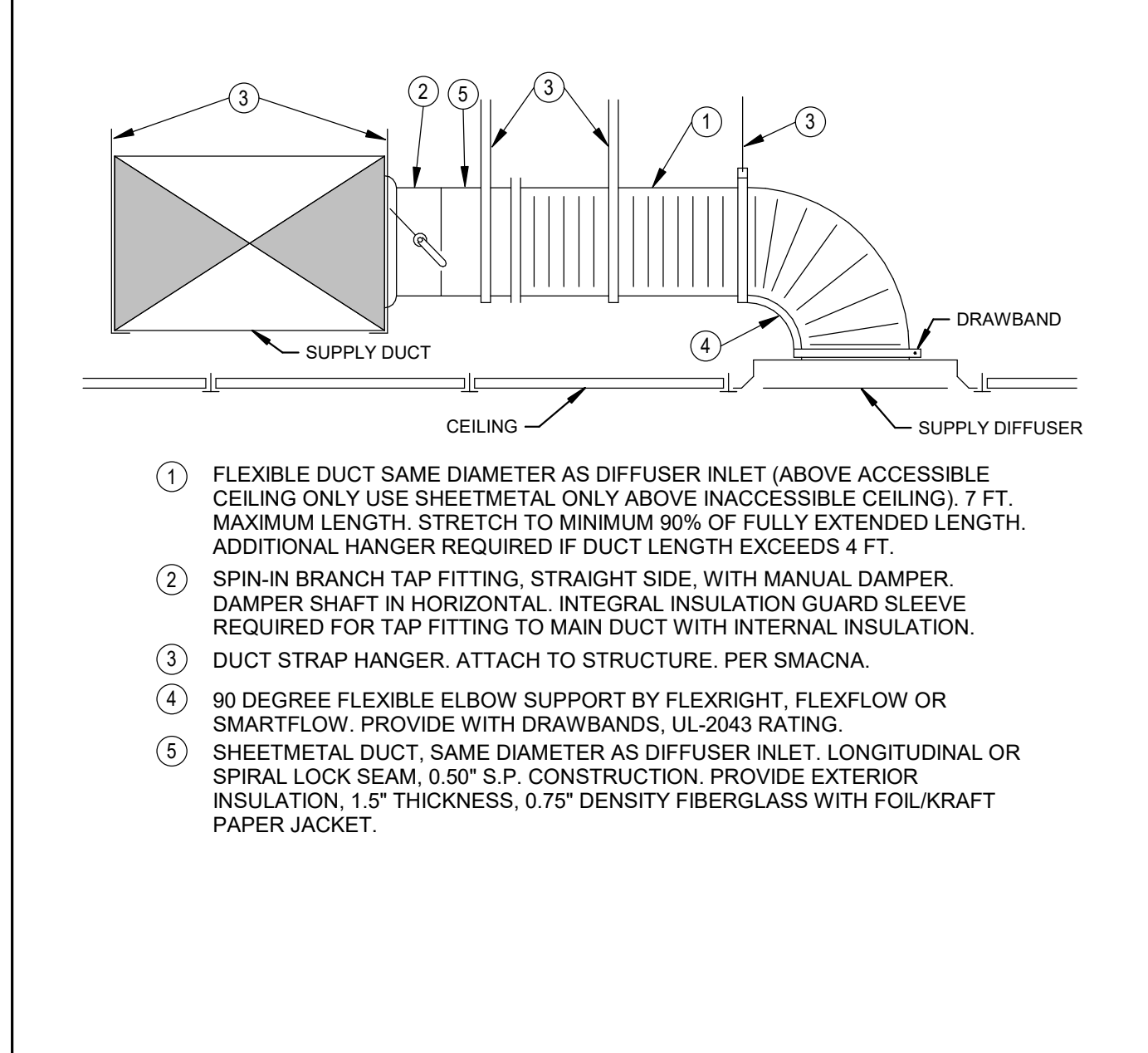
2 RECTANGULAR 90° SIDE TAP
N.T.S.



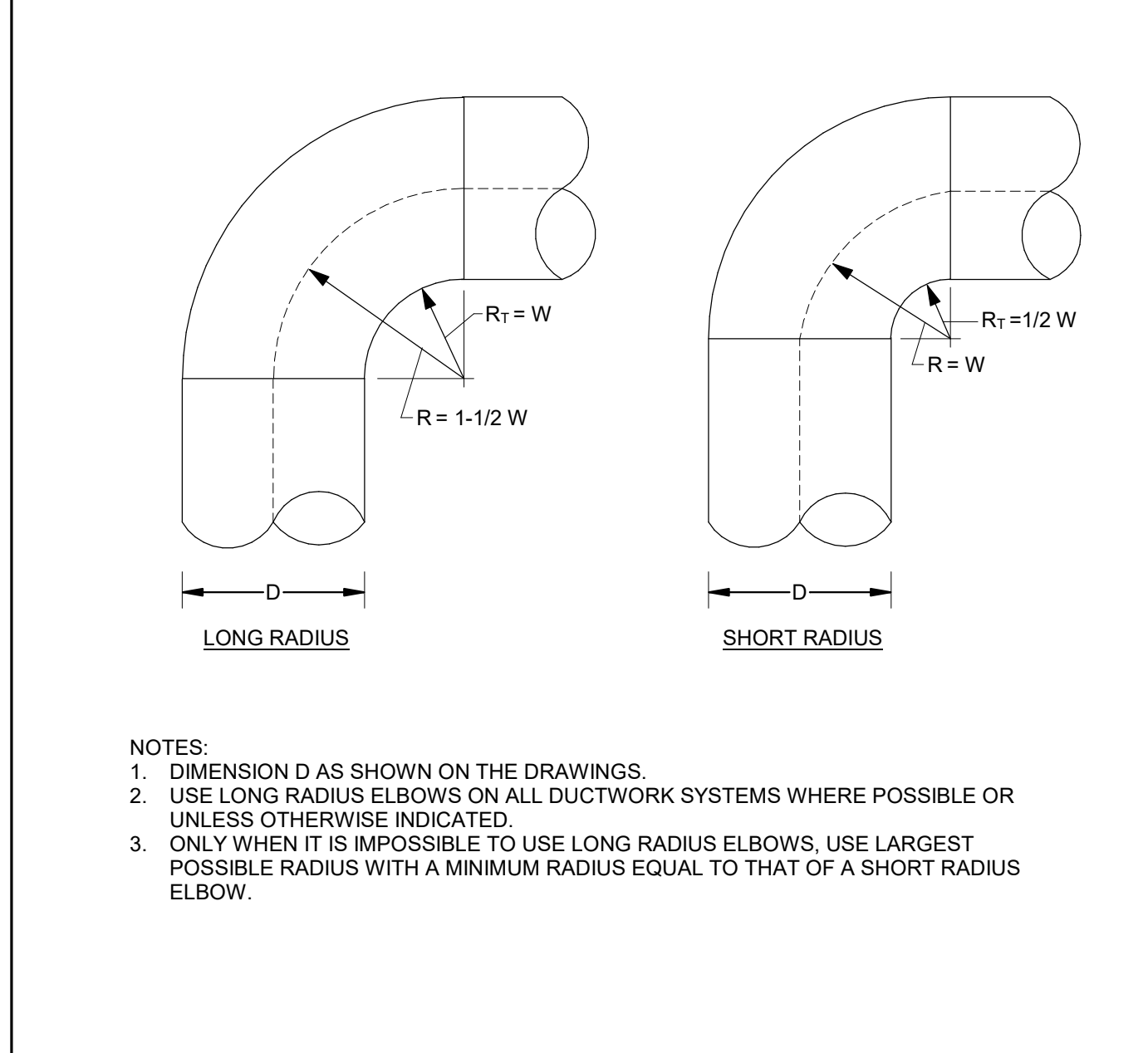
3 RECTANGULAR 45° & 30° RADIUS ELBOW
N.T.S.



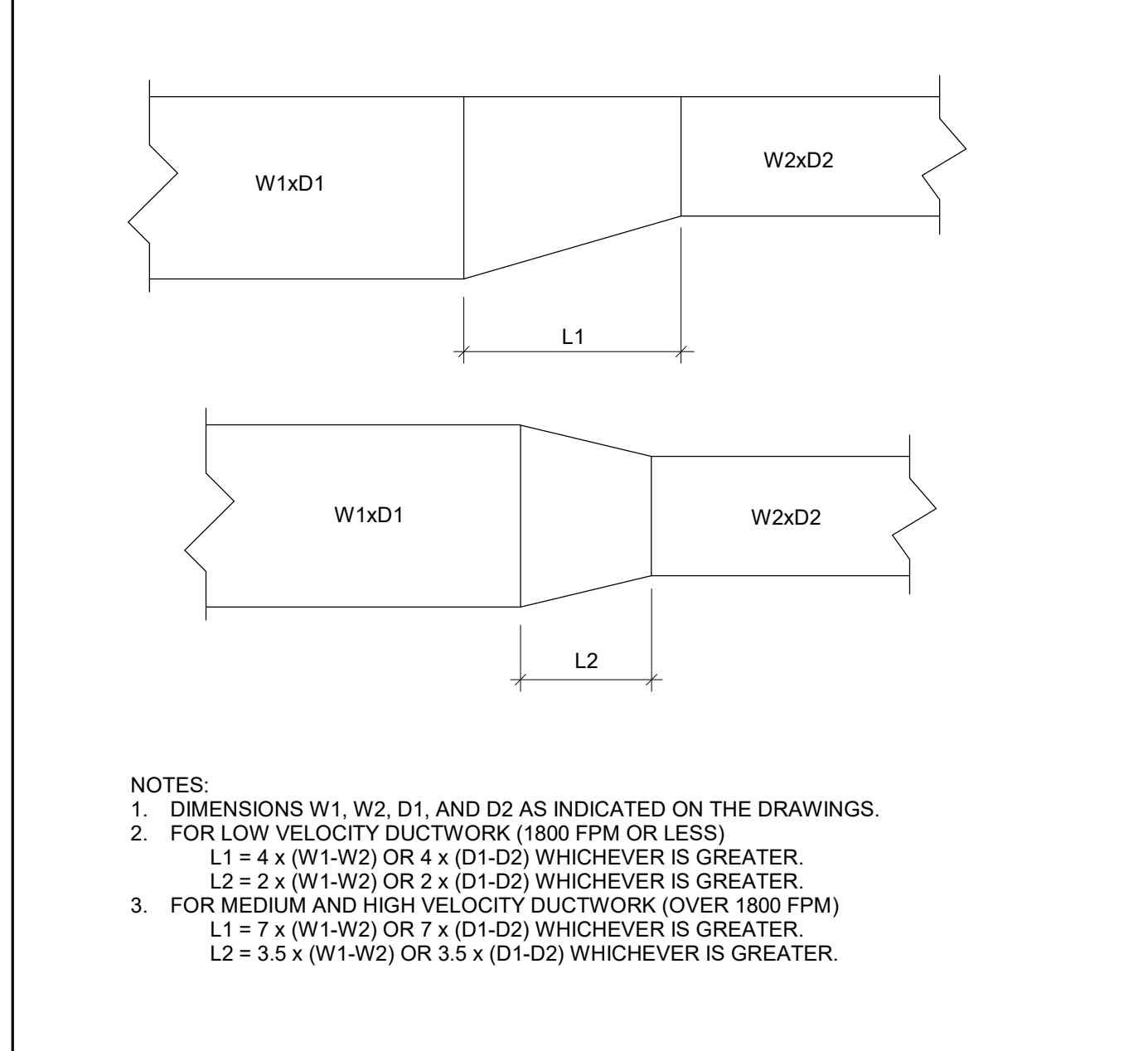
4 WALL LOUVER
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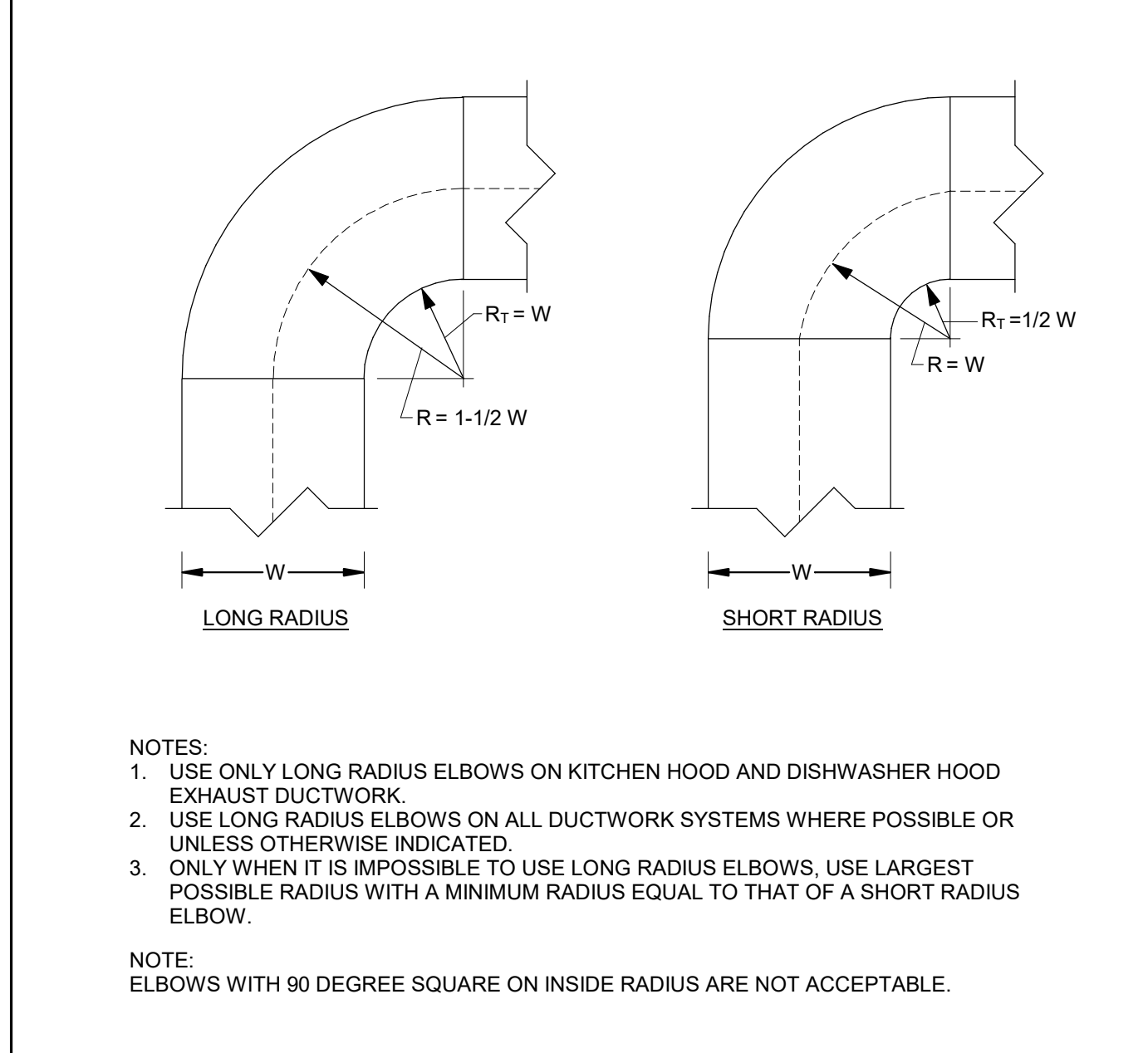
5 CEILING DIFFUSER
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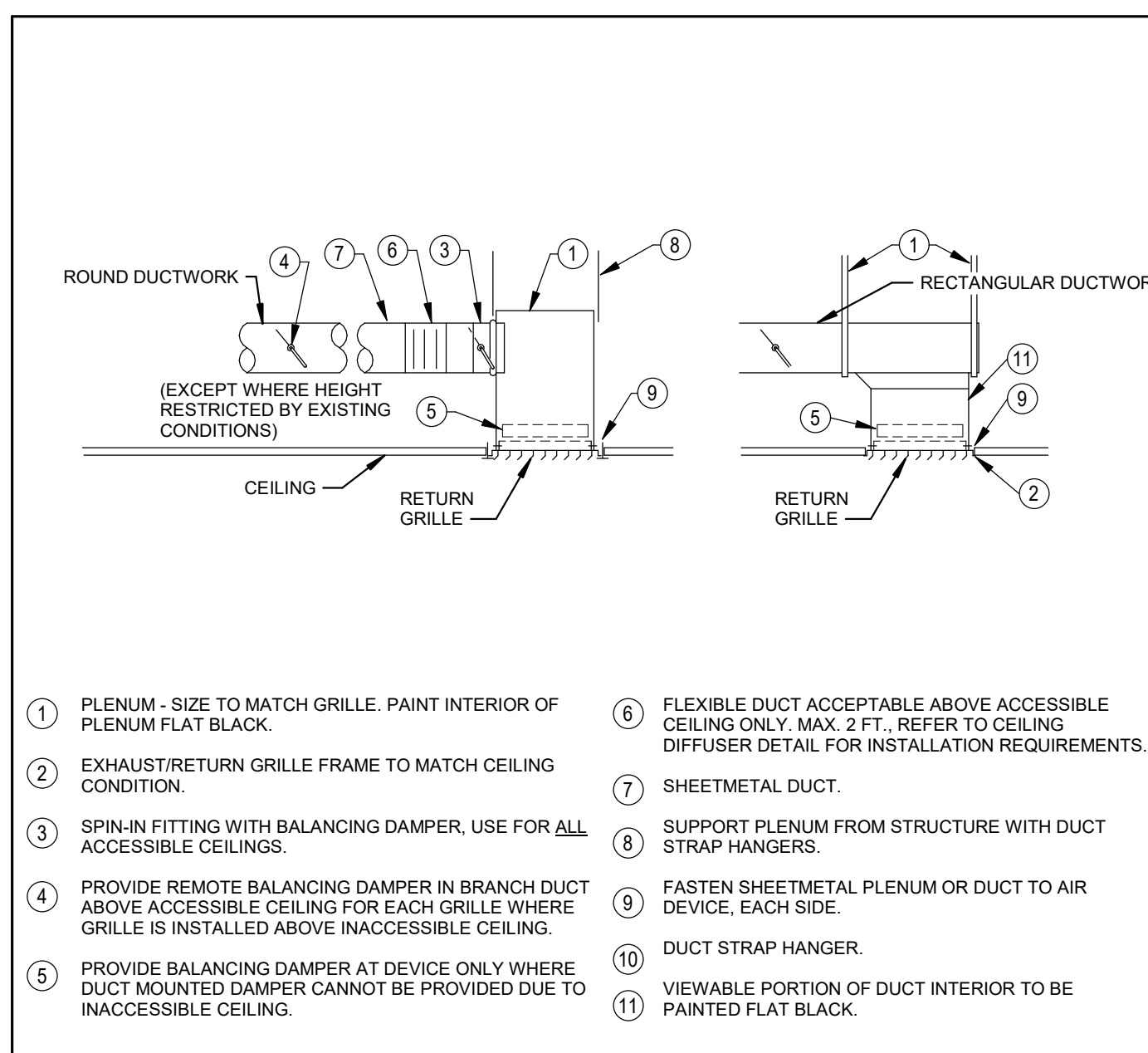
6 ROUND 90° RADIUS ELBOW
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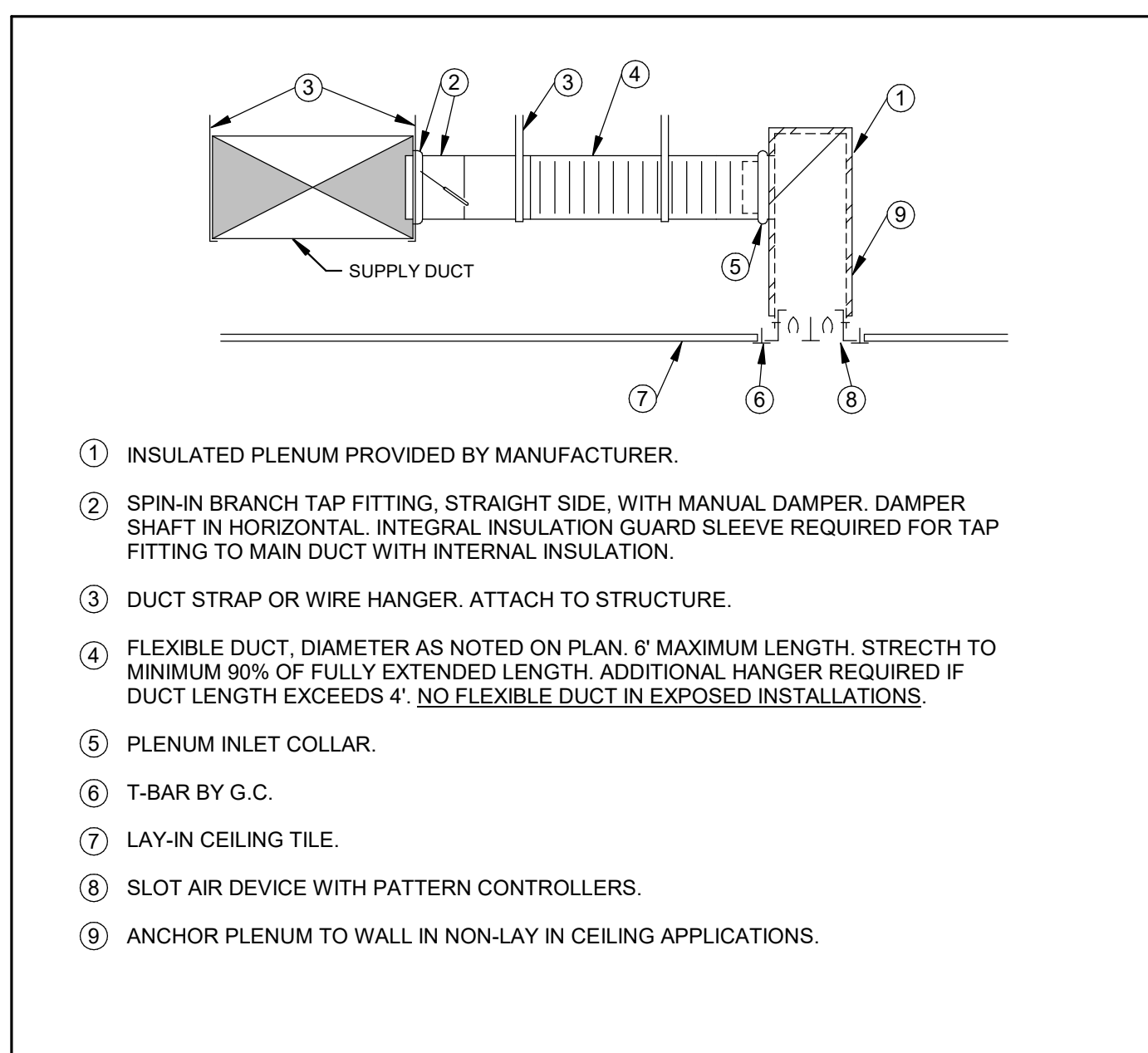
7 RECTANGULAR TRANSITION
N.T.S.



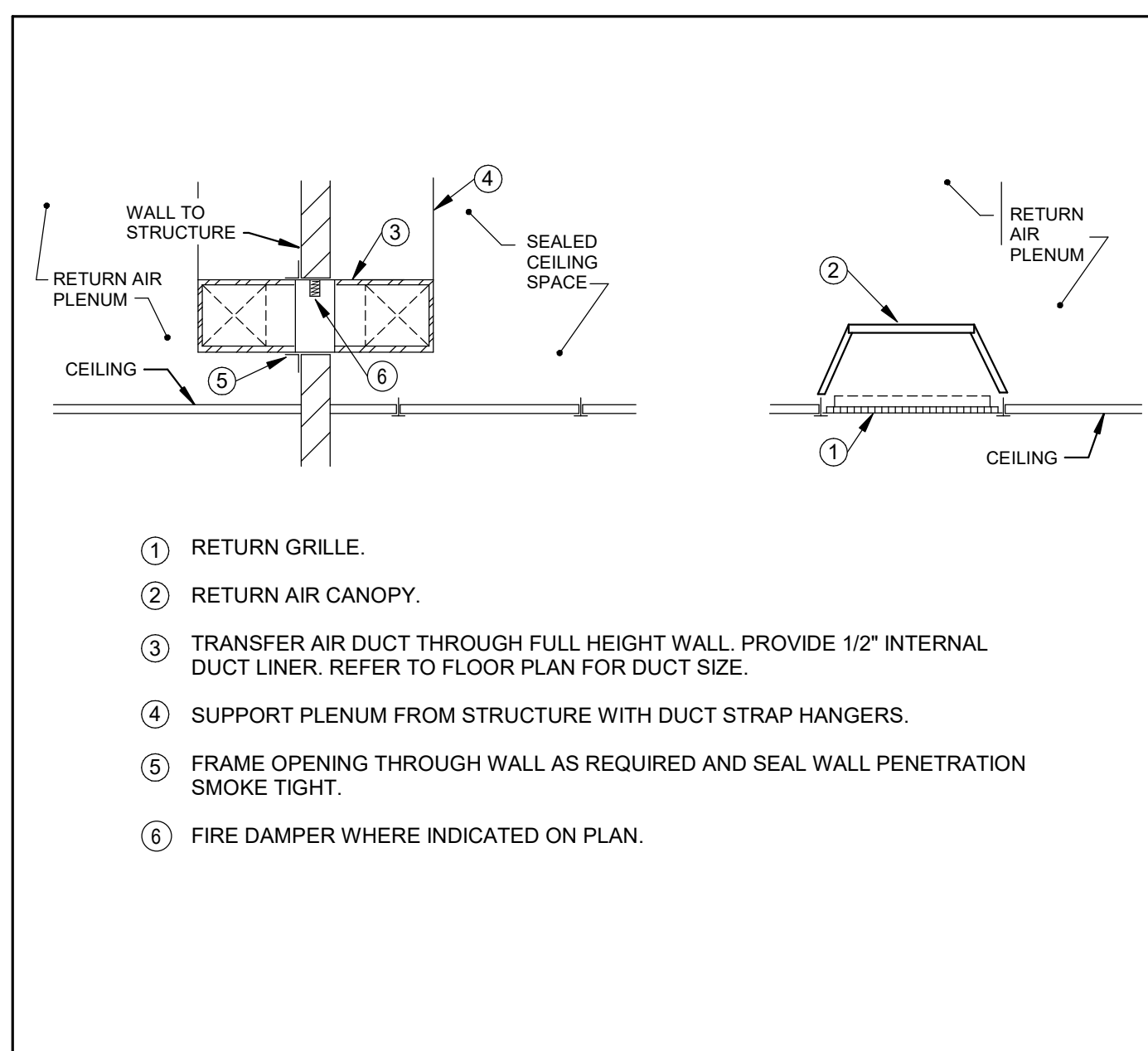
8 RECTANGULAR 90° RADIUS ELBOW
N.T.S.



9 EXHAUST/RETURN GRILLE - DUCTED
N.T.S.



10 SLOT DIFFUSER
N.T.S.



11 TRANSFER AIR GRILLE/PLENUM
N.T.S.

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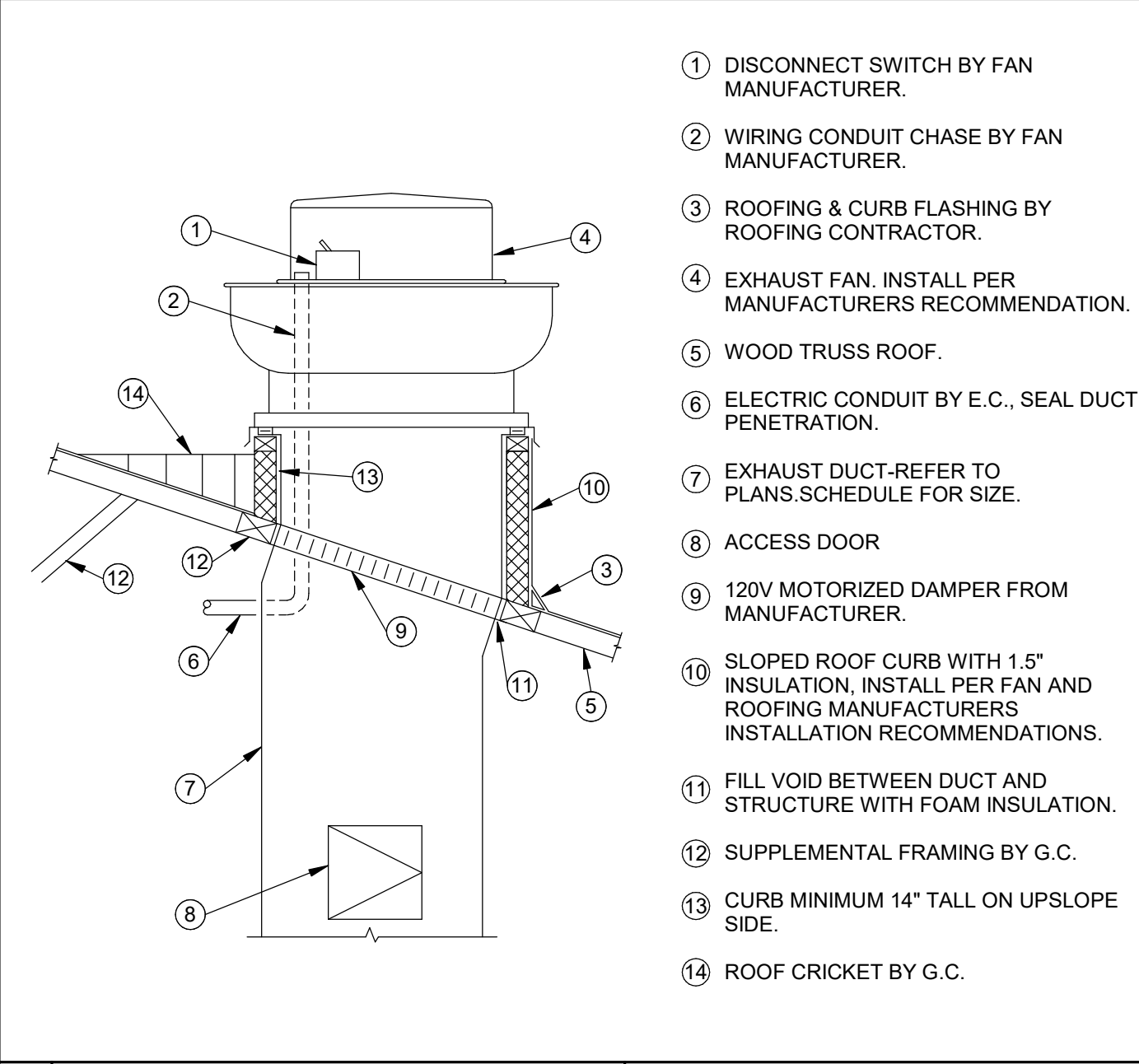
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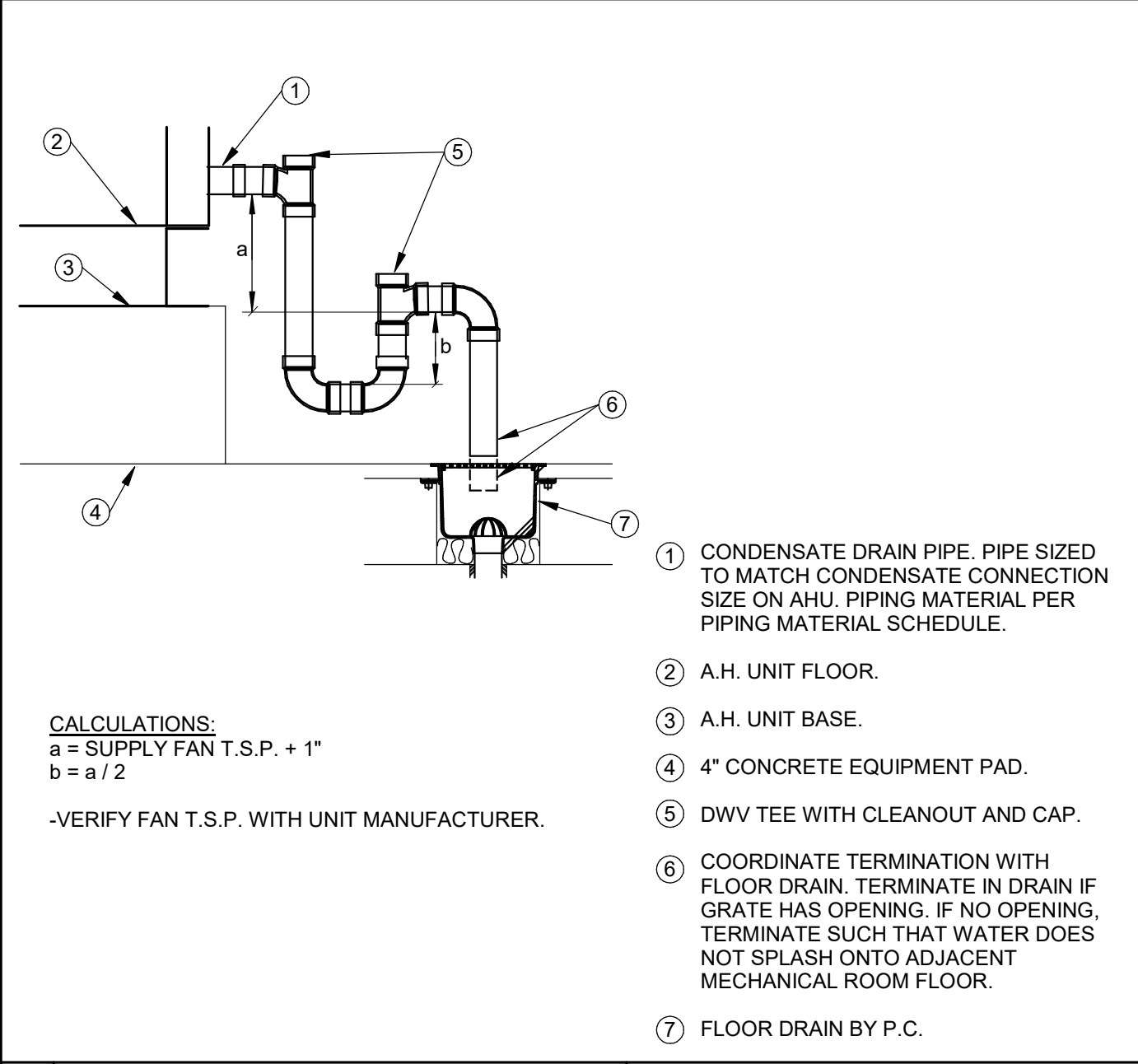
SHEET NO.

H3.3



- ① DISCONNECT SWITCH BY FAN MANUFACTURER.
- ② WIRING CONDUIT CHASE BY FAN MANUFACTURER.
- ③ ROOFING & CURB FLASHING BY ROOFING CONTRACTOR.
- ④ EXHAUST FAN. INSTALL PER MANUFACTURERS RECOMMENDATION.
- ⑤ WOOD TRUSS ROOF.
- ⑥ ELECTRIC CONDUIT BY E.C., SEAL DUCT PENETRATION.
- ⑦ EXHAUST DUCT-REFER TO PLANS SCHEDULE FOR SIZE.
- ⑧ ACCESS DOOR
- ⑨ 120V MOTORIZED DAMPER FROM MANUFACTURER.
- ⑩ SLOPED ROOF CURB WITH 1.5" INSULATION. INSTALL PER FAN AND ROOFING MANUFACTURERS INSTALLATION RECOMMENDATIONS.
- ⑪ FILL VOID BETWEEN DUCT AND STRUCTURE WITH FOAM INSULATION.
- ⑫ SUPPLEMENTAL FRAMING BY G.C.
- ⑬ CURB MINIMUM 14" TALL ON UPSLOPE SIDE.
- ⑭ ROOF CRICKET BY G.C.

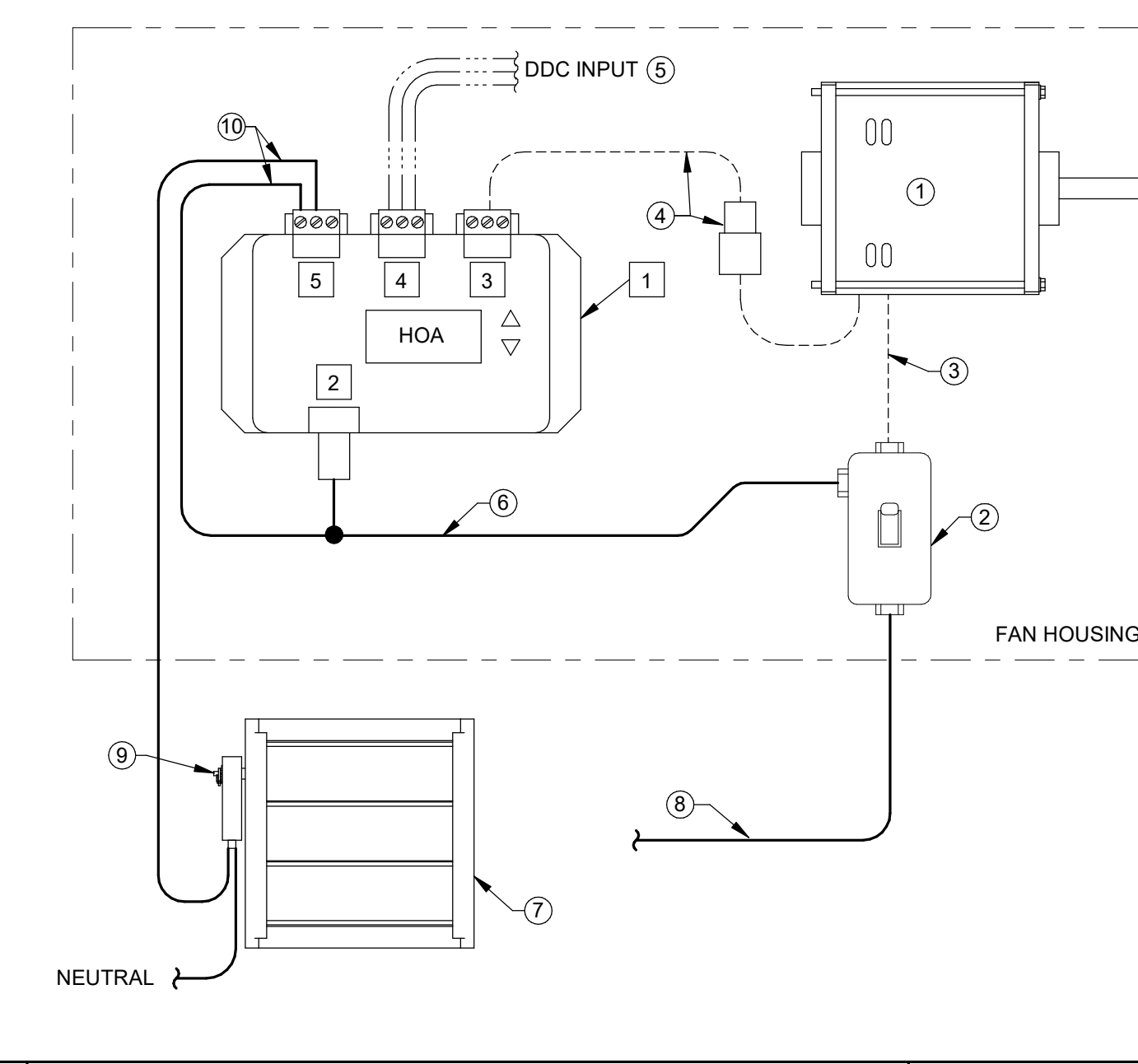
1 ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S. UPBLAST, WOOD TRUSS



- ① CONDENSATE DRAIN PIPE. PIPE SIZED TO MATCH CONDENSATE CONNECTION SIZE ON AHU. PIPING MATERIAL PER PIPING MATERIAL SCHEDULE.
- ② A.H. UNIT FLOOR.
- ③ A.H. UNIT BASE.
- ④ 4" CONCRETE EQUIPMENT PAD.
- ⑤ DWV TEE WITH CLEANOUT AND CAP.
- ⑥ COORDINATE TERMINATION WITH FLOOR DRAIN. TERMINATE IN DRAIN IF GRATE HAS OPENING. IF NO OPENING, TERMINATE SUCH THAT WATER DOES NOT SPLASH ONTO ADJACENT MECHANICAL ROOM FLOOR.
- ⑦ FLOOR DRAIN BY P.C.

CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1"
b = a / 2
-VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

2 AH UNIT CONDENSATE TRAP
N.T.S. DRAW THROUGH

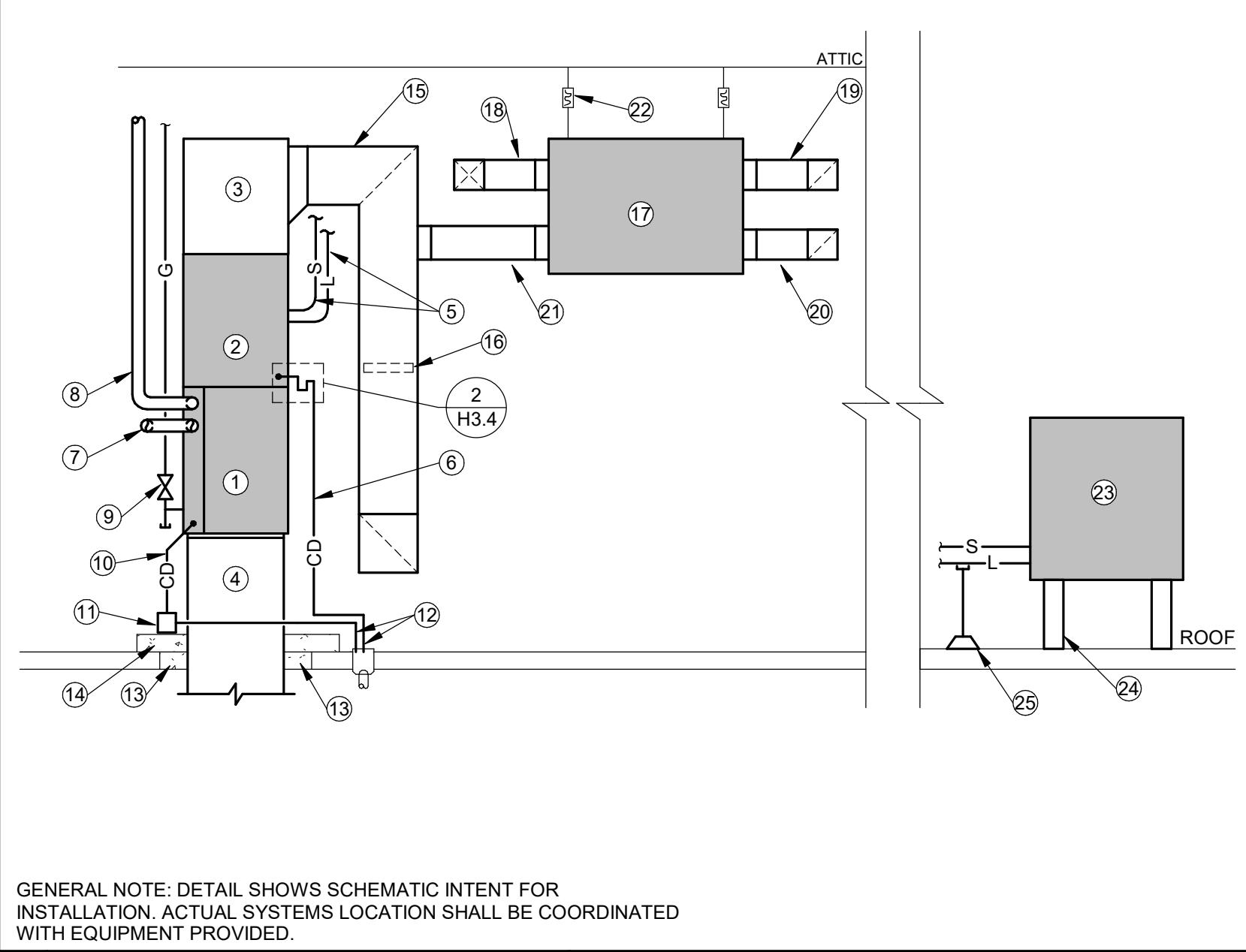


- # CONTROLLER NOTES**
- ① HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
 - ② 100 - 277V / 1 PHASE POWER TO CONTROLLER.
 - ③ MOTOR CONTROL: 0-10 VDC, 24V, & COM.
 - ④ DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
 - ⑤ AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V, N.O., N.C., & COM.

- # DETAIL NOTES**
- ① ECM FAN MOTOR.
 - ② TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
 - ③ SINGLE PHASE WIRING BY MANUFACTURER.
 - ④ CONTROL WIRING BY MANUFACTURER.
 - ⑤ DDC INPUT CONTROL WIRING BY H.C.
 - ⑥ LINE VOLTAGE TO POWER MOTORIZED DAMPER BY E.C. TAP ON LOAD SIDE OF TOGGLE SWITCH. PROVIDES POWER TO HOA CONTROLLER AND DAMPER ACTUATOR.
 - ⑦ DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
 - ⑧ SUPPLY CIRCUIT POWER TO DISCONNECT BY E.C.
 - ⑨ 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
 - ⑩ WIRE 120V DAMPER POWER THROUGH AUXILIARY CONTACT.

----- WIRING BY H.C.
----- WIRING BY E.C.
----- WIRING BY MANUFACTURER

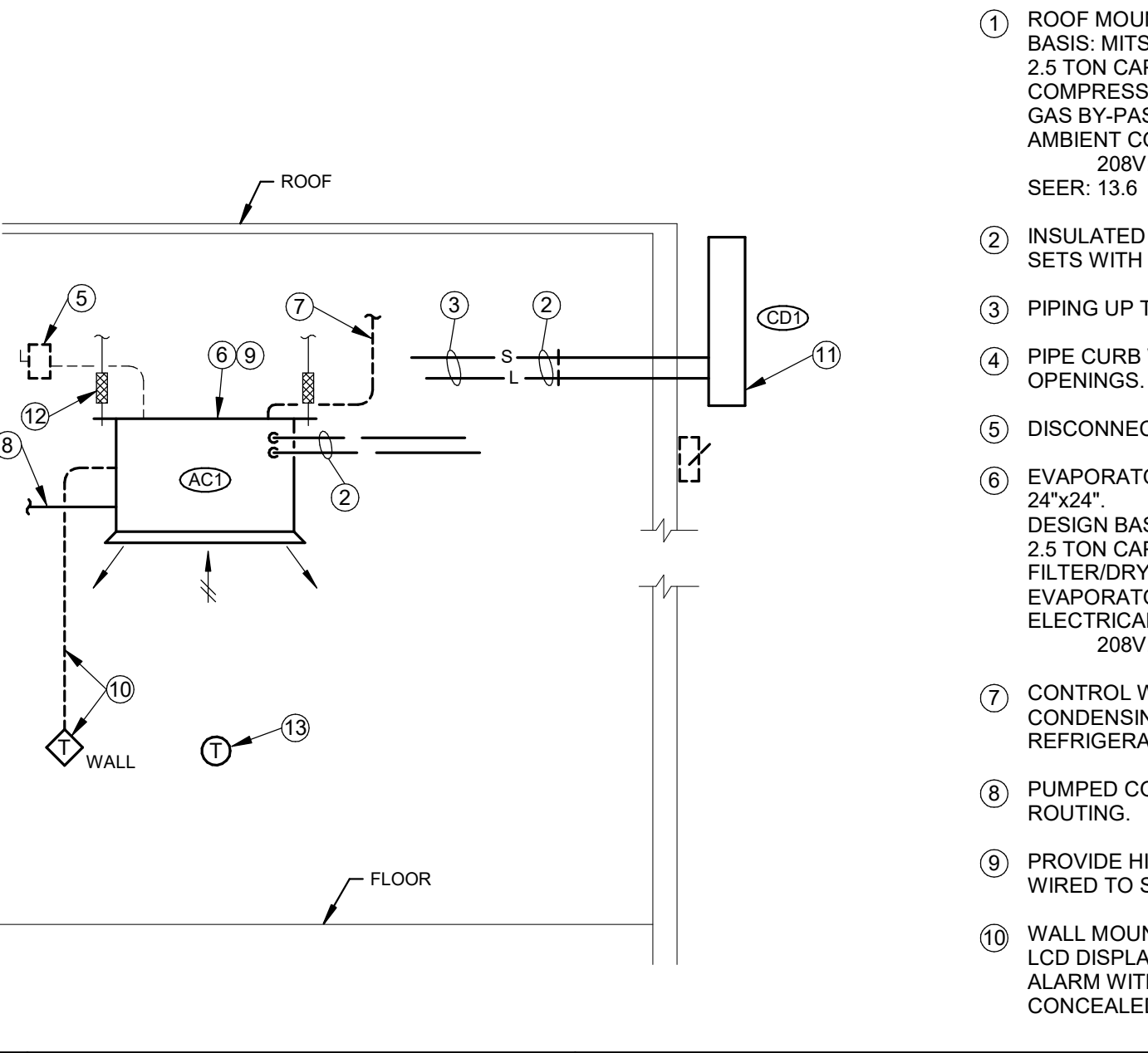
3 HOA CONTROLLER - SINGLE PHASE ECM FAN WIRING DIAGRAM
N.T.S.



- ① FC-1 - GAS FURNACE & BLOWER SECTION.
- ② FC-1 - DX COIL SECTION.
- ③ RETURN AIR PLENUM.
- ④ SUPPLY AIR DUCTWORK.
- ⑤ REFRIGERANT LINESET.
- ⑥ 0.75" COOLING COIL DRAIN LINE.
- ⑦ COMBUSTION AIR INTAKE. 4"Ø
- ⑧ 4"Ø VENT AIR PIPE. PROVIDE BOOT TEE FITTING AND ROUTE BOOT DRAIN TO NEUTRALIZER.
- ⑨ NATURAL GAS CONNECTION BY P.C.
- ⑩ HIGH EFFICIENCY FURNACE CONDENSATE DRAIN.
- ⑪ CONDENSATE NEUTRALIZER PROVIDED BY H.C.
- ⑫ ROUTE TO FLOOR DRAIN. TERMINATE DRAIN IN FLOOR SINK.
- ⑬ G.C. SHALL INFILL EXISTING FIRE POLE FLOOR OPENING AROUND NEW SUPPLY DUCT.
- ⑭ 4" CONCRETE EQUIPMENT PAD.
- ⑮ RETURN DUCT. REFER TO FLOOR PLAN.
- ⑯ 1" MERV 8 FILTER HOUSING.
- ⑰ ERV-1.
- ⑱ ERV OUTSIDE AIR.
- ⑲ ERV EXHAUST AIR.
- ⑳ ERV RELIEF AIR.
- ㉑ ERV SUPPLY AIR.
- ㉒ THREADED ROD HANGER FOR ERV. PROVIDE VIBRATION ISOLATOR. REFER TO SPECIFICATION.
- ㉓ CD-1
- ㉔ 14" ROOF RAIL CURB. REFER TO DETAIL 6, H3.4.
- ㉕ REFRIGERANT PIPING SUPPORT. REFER TO DETAIL 6, H3.1.

GENERAL NOTE: DETAIL SHOWS SCHEMATIC INTENT FOR INSTALLATION. ACTUAL SYSTEMS LOCATION SHALL BE COORDINATED WITH EQUIPMENT PROVIDED.

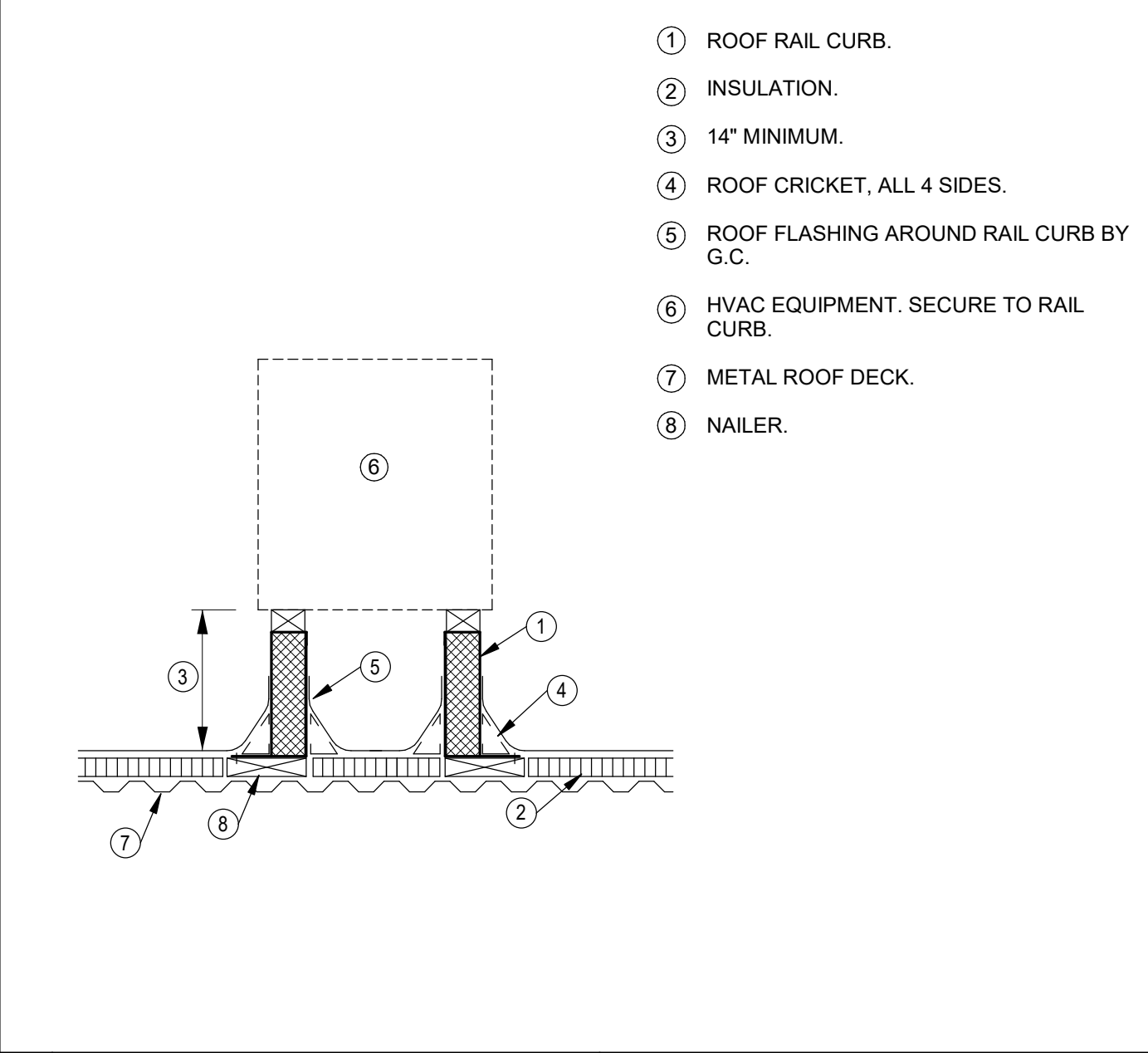
4 FC-1 & ERV-1
N.T.S.



- ① ROOF MOUNTED AIR COOLED CONDENSING UNIT DESIGN BASIS: MITSUBISHI -PUY-A30NH43 2.5 TON CAPACITY TO MATCH EVAPORATOR UNIT. SCROLL COMPRESSOR, CONDENSER COIL, CONDENSER FAN, HOT-GAS BY-PASS, LIQUID LINE, SOLENOID VALVE, LOW AMBIENT CONTROL. ELECTRICAL: MCA-25A, MOCP-40A. 208V -1 PH. SEER: 13.6
- ② INSULATED SUCTION, LIQUID REFRIGERANT PIPING LINE SETS WITH QUICK CONNECTS.
- ③ PIPING UP TO UNIT ON ROOF.
- ④ PIPE CURB WITH FLASHING AND SELF-SEALING PIPE OPENINGS.
- ⑤ DISCONNECT SWITCH, ELECTRICAL POWER FEED BY E.C.
- ⑥ EVAPORATOR UNIT - CEILING MOUNTED CASSETTE TYPE, 24"x24". DESIGN BASIS: MITSUBISHI - PLA-A30BA 2.5 TON CAPACITY. INTEGRAL SERVICE PORTS, FILTER/DRYER, EXPANSION VALVE, FILTER, FAN, EVAPORATOR COIL, CONDENSATE PUMP AND DRAIN PAN. ELECTRICAL: MCA-1A, MOCP-15A. 208V -1 PH.
- ⑦ CONTROL WIRING BETWEEN EVAPORATOR AND CONDENSING UNIT BY H.C. ROUTE IN CONDUIT WITH REFRIGERANT PIPING.
- ⑧ PUMPED CONDENSATE PIPING. 0.75" SIZE. SEE PLAN FOR ROUTING.
- ⑨ PROVIDE HIGH WATER LEVEL SWITCH IN DRAIN PAN, WIRED TO STOP UNIT.
- ⑩ WALL MOUNTED MICROPROCESSOR CONTROLLER WITH LCD DISPLAY, TEMPERATURE SETPOINT ADJUSTMENT, ALARM WITH SILENCE AND UNIT ON/OFF SELECTION. CONCEALED WIRING BY H.C.
- ⑪ EQUIPMENT RAIL CURB BY H.C.
- ⑫ SUPPORT UNIT FROM STRUCTURE WITH THREADED RODS & NEOPRENE VIBRATION ISOLATORS. PROVIDE SUPPLEMENTAL ANGLES BETWEEN BAR JOISTS AS REQUIRED.
- ⑬ DDC TEMP. SENSOR IN ROOM FOR MONITORING.

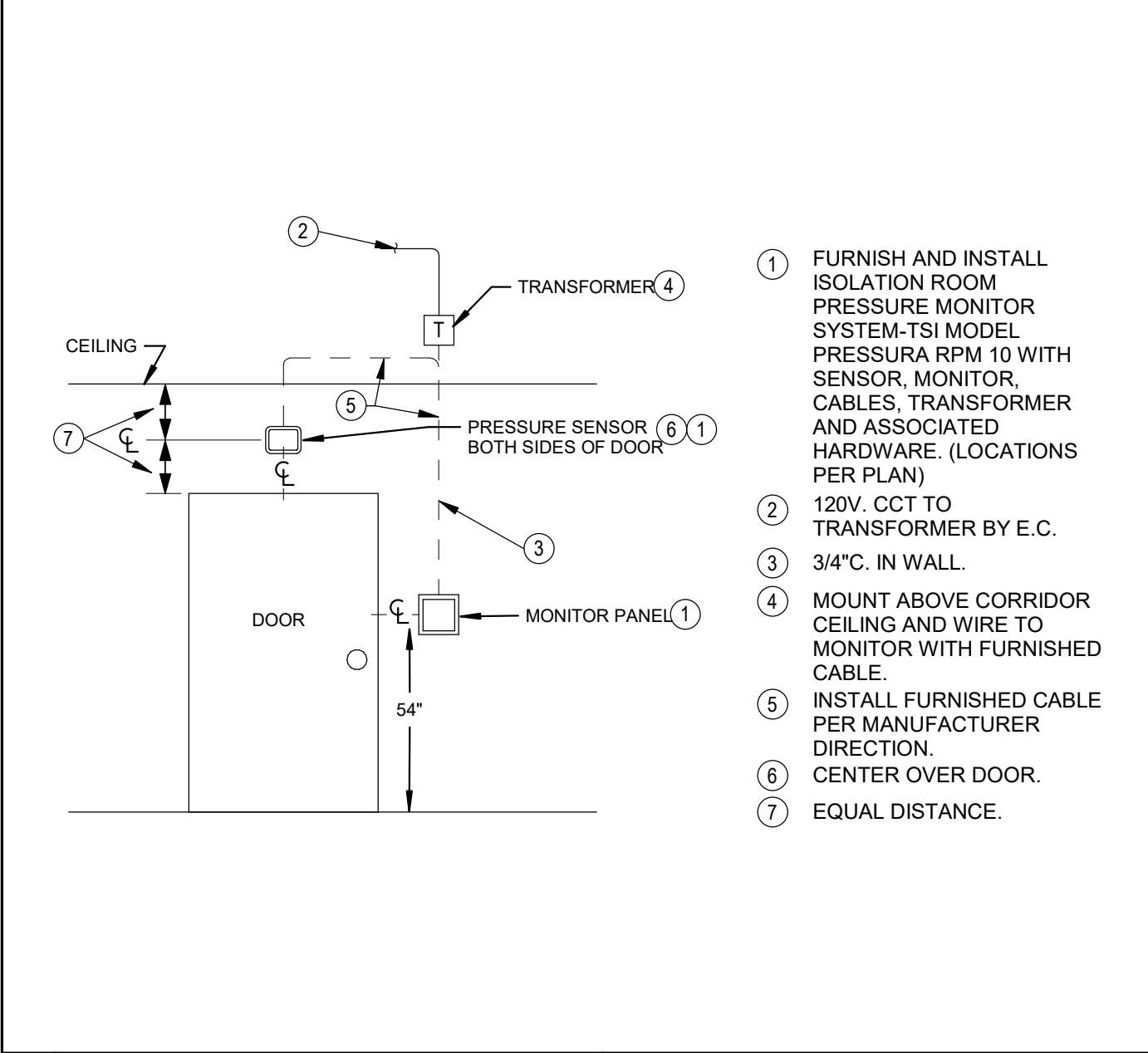
APPROVED MANUFACTURERS:
MITSUBISHI
LG
SANYO

5 SPLIT SYSTEM - CEILING CASSETTE
N.T.S.



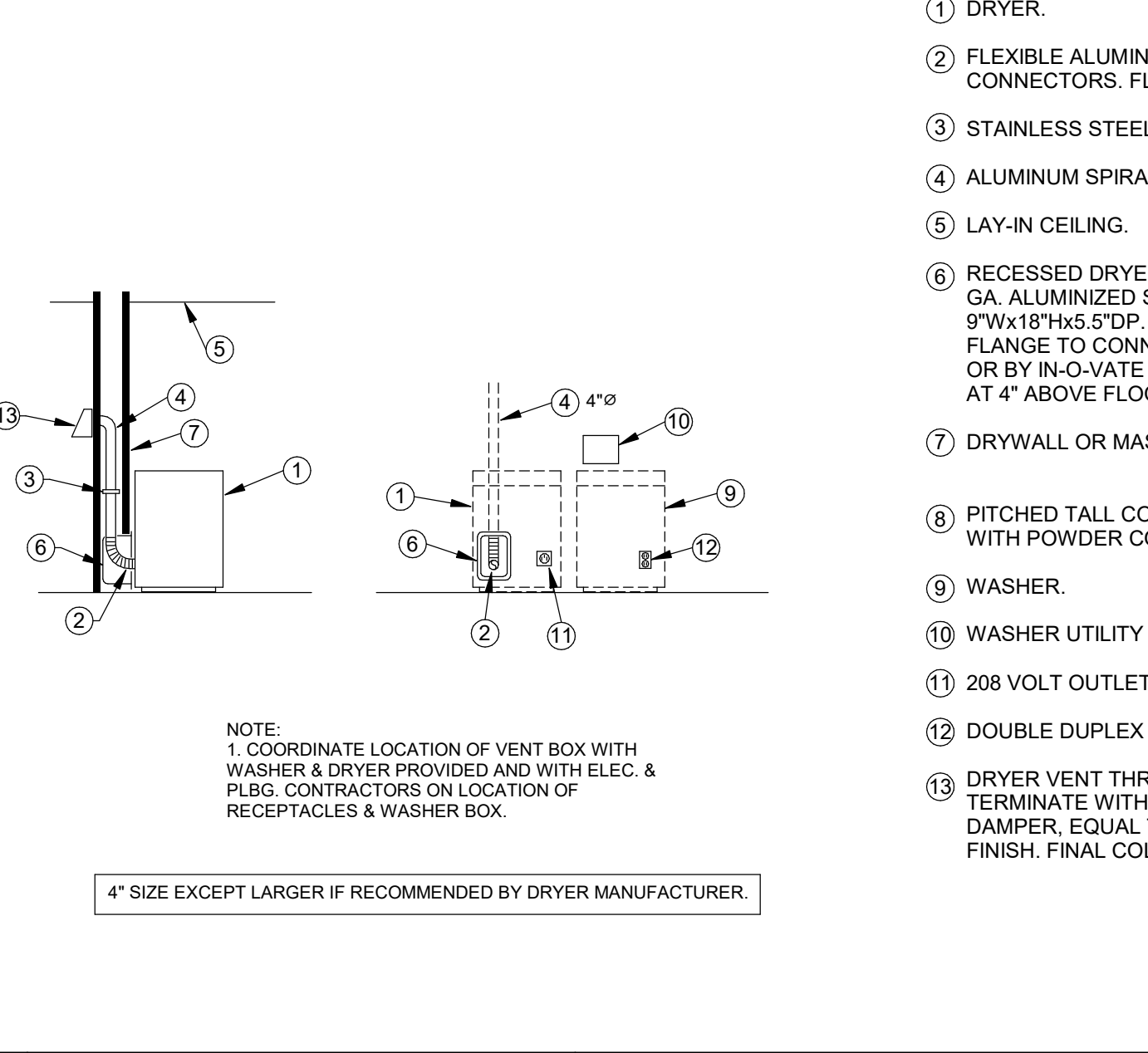
- ① ROOF RAIL CURB.
- ② INSULATION.
- ③ 14" MINIMUM.
- ④ ROOF CRICKET, ALL 4 SIDES.
- ⑤ ROOF FLASHING AROUND RAIL CURB BY G.C.
- ⑥ HVAC EQUIPMENT. SECURE TO RAIL CURB.
- ⑦ METAL ROOF DECK.
- ⑧ NAILER.

6 ROOF RAIL CURB
N.T.S.



- ① FURNISH AND INSTALL ISOLATION ROOM PRESSURE MONITOR SYSTEM-TSI MODEL PRESSURA RPM 10 WITH SENSOR, MONITOR, CABLES, TRANSFORMER AND ASSOCIATED HARDWARE. (LOCATIONS PER PLAN)
- ② 120V. CCT TO TRANSFORMER BY E.C.
- ③ 3/4". IN WALL
- ④ MOUNT ABOVE CORRIDOR CEILING AND WIRE TO MONITOR WITH FURNISHED CABLE.
- ⑤ INSTALL FURNISHED CABLE PER MANUFACTURER DIRECTION.
- ⑥ CENTER OVER DOOR.
- ⑦ EQUAL DISTANCE.

7 ROOM PRESSURE MONITOR
N.T.S.



- ① DRYER.
- ② FLEXIBLE ALUMINUM DUCT WITH METAL DRAWBAND CONNECTORS. FLEXMASTER TYPE NI-TL.
- ③ STAINLESS STEEL DUCT SUPPORT.
- ④ ALUMINUM SPIRAL DUCT.
- ⑤ LAY-IN CEILING.
- ⑥ RECESSED DRYER VENT BOX. FLUSH MTD. IN 6" STUD WALL. 22 GA. ALUMINIZED STEEL WITH FLANGE. 4" DIA. TOP OUTLET. 9"Wx18"Hx5"SDP. INSIDE DIMENSION. FASTEN TO WALL AT FLANGE TO CONNECT TO STUDS. AMERICAN ALDES MODEL PN OR BY IN-O-VATE TECHNOLOGIES OR EQUAL. MOUNT BOTTOM AT 4" ABOVE FLOOR.
- ⑦ DRYWALL OR MASONRY ENCLOSURE BY G.C.
- ⑧ PITCHED TALL CONE FLASHING AND STORM COLLAR. PROVIDE WITH POWDER COAT FINISH.
- ⑨ WASHER.
- ⑩ WASHER UTILITY BOX BY P.C.
- ⑪ 208 VOLT OUTLET BY E.C.
- ⑫ DOUBLE DUPLEX OUTLET BY E.C.
- ⑬ DRYER VENT THRU WALL WHERE INDICATED ON FLOOR PLANS. TERMINATE WITH HOODED WALL CAP WITH BACKDRAFT DAMPER. EQUAL TO GREENHECK WC-4 WITH POWDER COAT FINISH. FINAL COLOR SELECTION BY ARCHITECT.

NOTE:
1. COORDINATE LOCATION OF VENT BOX WITH WASHER & DRYER PROVIDED AND WITH ELEC. & PLBG. CONTRACTORS ON LOCATION OF RECEPTACLES & WASHER BOX.

4" SIZE EXCEPT LARGER IF RECOMMENDED BY DRYER MANUFACTURER.

8 DRYER VENT
N.T.S.

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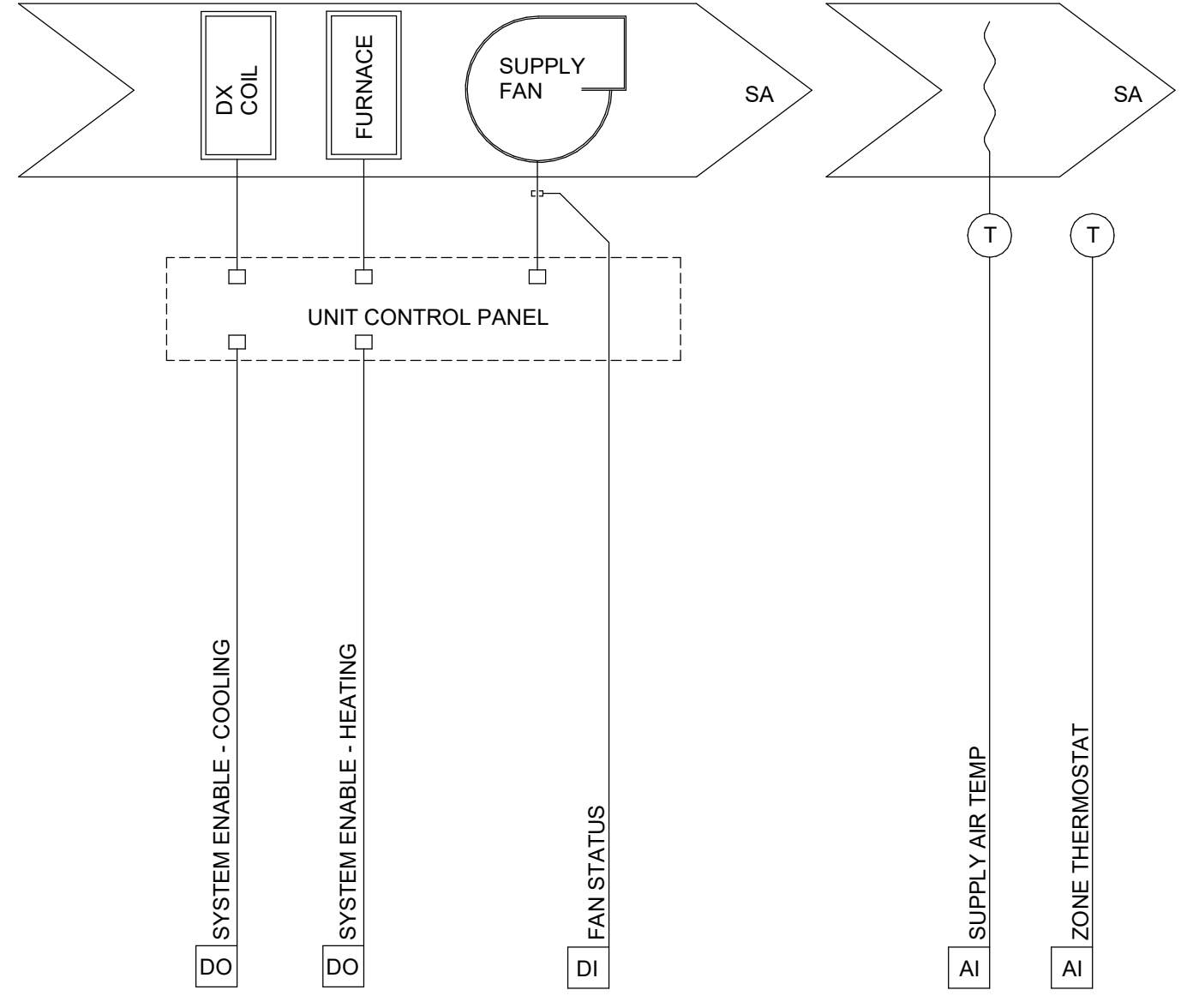
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

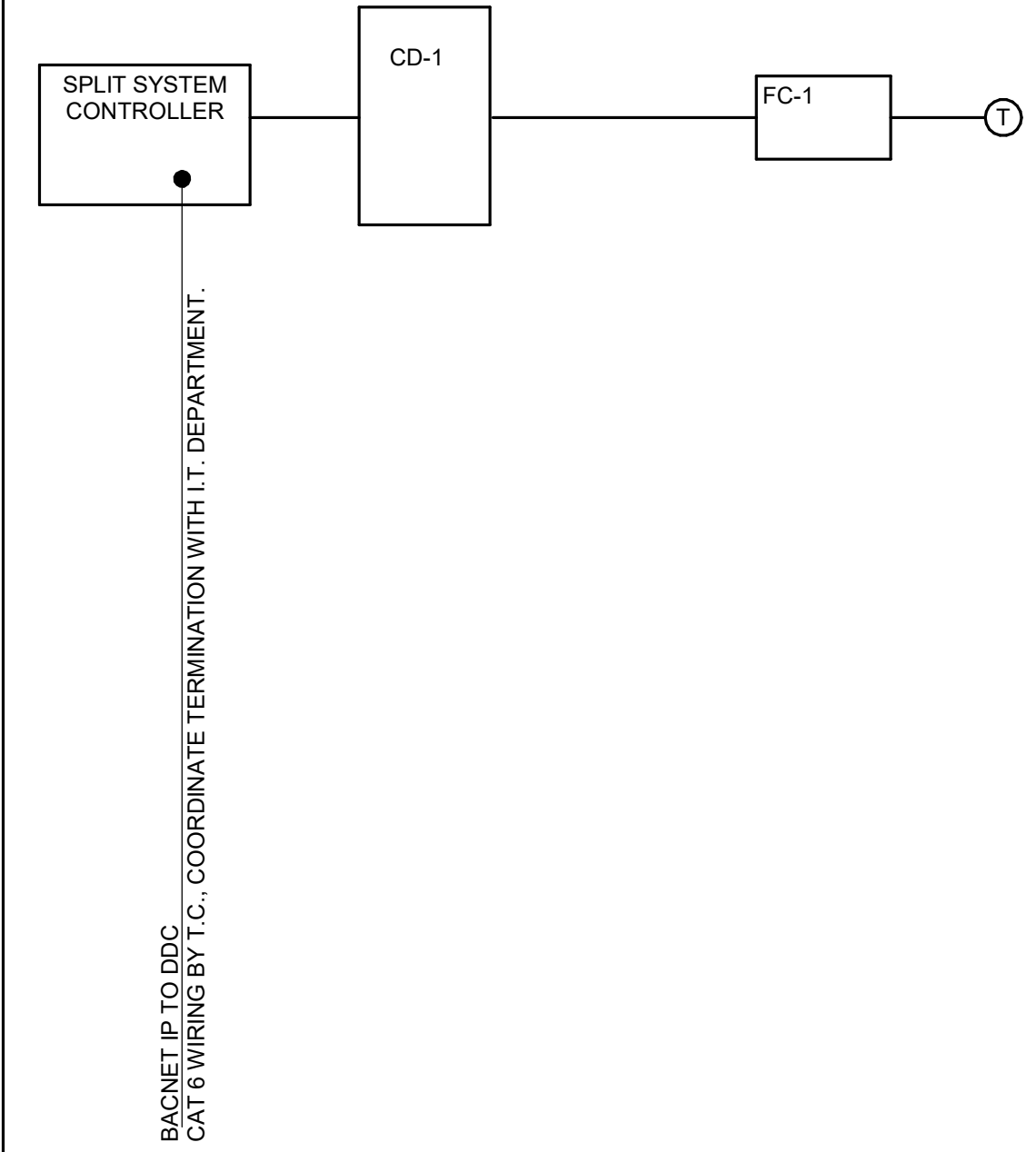
NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
DRAWN	DJZ
CHECKED	JDZ
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TITLE	
DETAILS	
SHEET NO.	

H3.4



SEQUENCE OF OPERATION
 THE MAIN RESIDENTIAL SPLIT SYSTEM, CONSISTING OF FC-1 & CD-1, SHALL BE CONTROLLED THROUGH THE BUILDING DDC SYSTEM.
 OPERATION: THE DDC SYSTEM SHALL ENABLE / DISABLE THE FC-1/CD-1 TO PROVIDE HEATING OR COOLING TO MAINTAIN THE ZONE TEMPERATURE SETPOINT.
 ZONE THERMOSTAT: PROGRAM DDC THERMOSTAT TO HAVE AN OPERATING RANGE OF (65 DEG F. TO 74 DEG. F.)
 PROVIDE A SUPPLY AIR TEMPERATURE SENSOR IN THE MAIN SUPPLY DUCT. PROVIDE A CURRENT RELAY TO MONITOR FAN STATUS.
 ALARMS:
 • FAN FAILURE

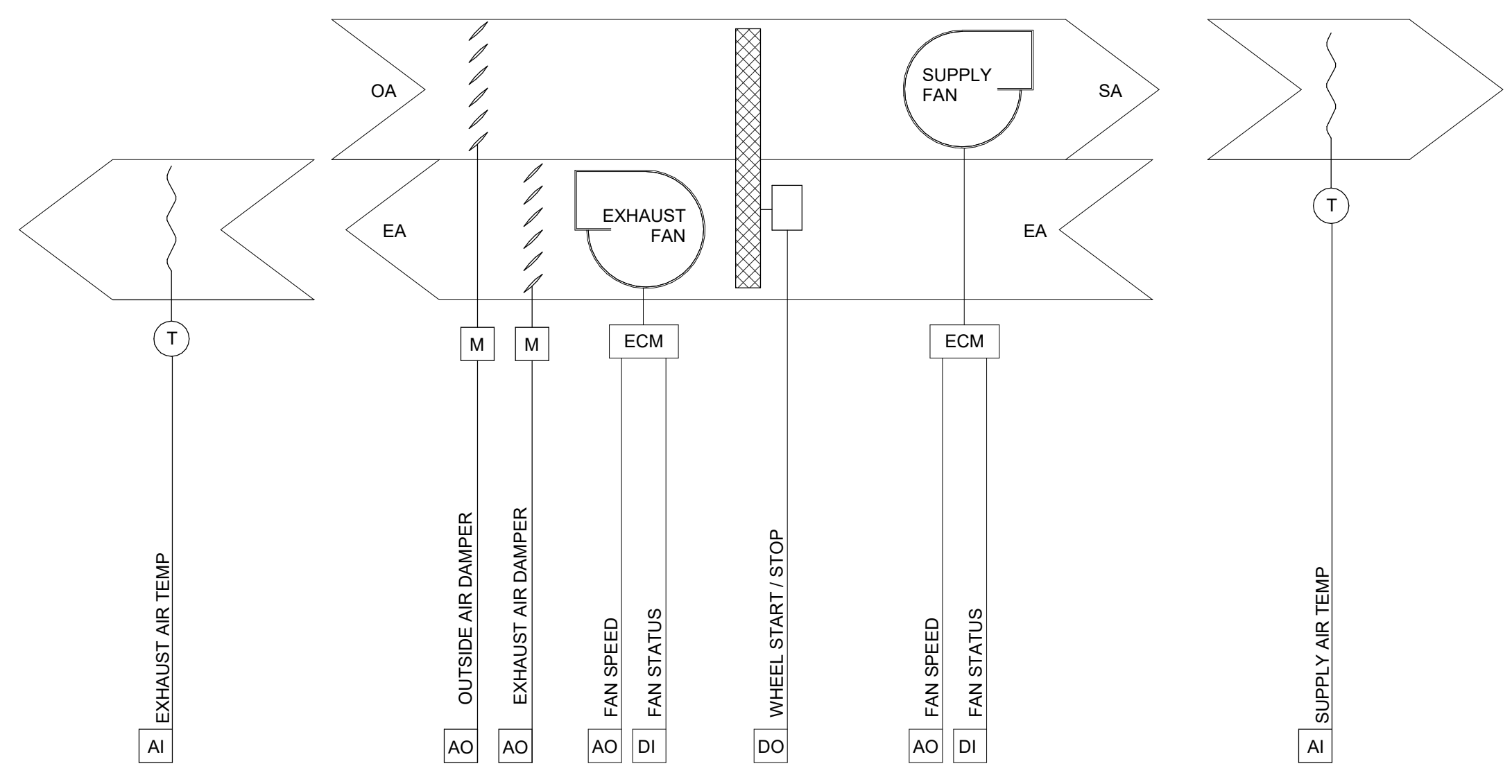


OPERATION
 THE SPLIT SYSTEM SHALL OPERATE TO MAINTAIN THE ROOM THERMOSTAT SETPOINT.
 • HEATING SETPOINT: 68°F
 • COOLING SETPOINT: 72°F
 PROVIDE A BACNET CONNECTION TO THE DDC SYSTEM.
 ALARMS:
 • SYSTEM FAILURE
 • CONDENSATE OVERFLOW

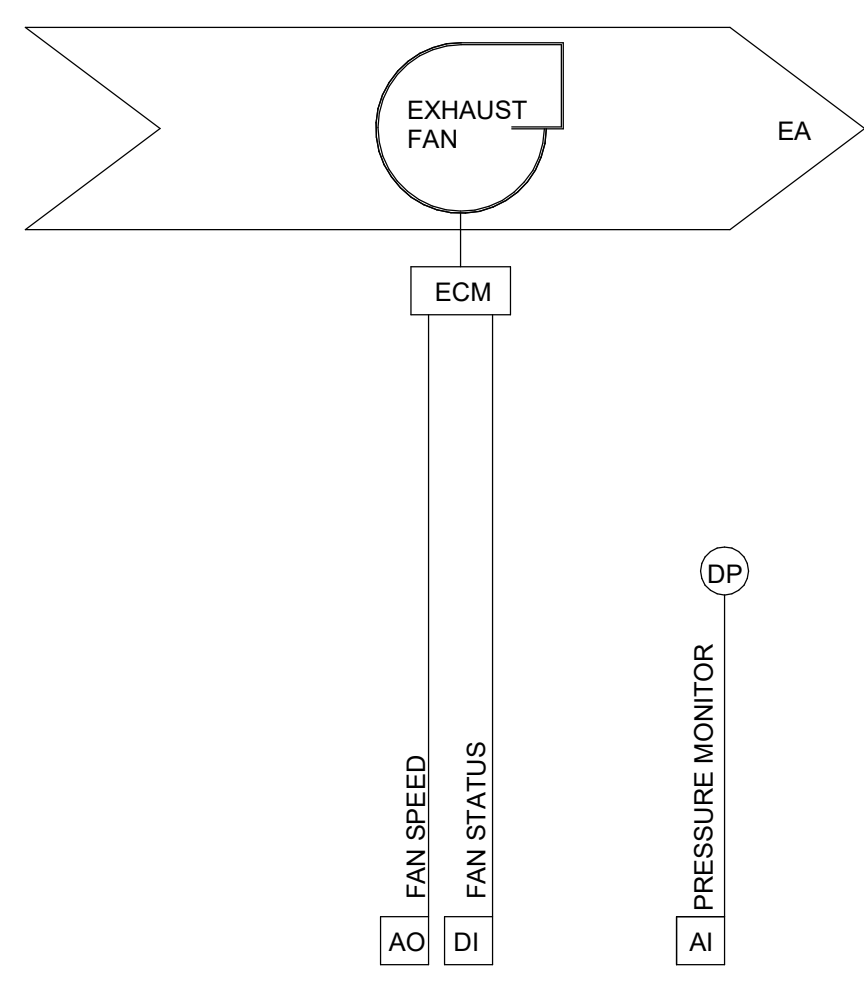
GENERAL CONTROLS NOTES
 1. THE EXISTING BUILDING CONTROLS IS PROVIDED THROUGH AN ALERTON DDC SYSTEM. NEW BUILDING CONTROLS SHALL BE AN EXTENSION OF THE EXISTING DDC SYSTEM. THE CONTROLS CONTRACTOR SHALL PROVIDE ALL REQUIRED COMPONENTS TO EXTEND THE DDC SYSTEM TO SERVE THE NEW ADDITION SYSTEM.
 2. THE CURRENT JACE CONTROLLER REQUIRES AN EXPANSION TO THE LICENSE FOR THE NUMBER OF CONNECTED SUBCONTROLLERS. REQUIRED EXPANSION IS 'VALER-8000 DEVICE PACK 10'. CONTACT JIM PASSATORE WITH AUTOMATED SOLUTIONS GROUP - 937-313-1099 FOR LICENSE EXPANSION.

1 FC-1 & CD-1 CONTROLS
 N.T.S.

2 FC-2 & CD-2 CONTROLS



SEQUENCE OF OPERATION
FAN OPERATION
 THE ERV SHALL OPERATE DURING OCCUPIED HOURS. DURING OPERATION, THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL OPEN, THE SUPPLY AND RETURN FANS SHALL RUN, AND THE WHEEL SHALL MOTOR SHALL RUN.
 PROVIDE TEMPERATURE SENSORS TO MONITOR SUPPLY AND EXHAUST AIR TEMPERATURE LEAVING THE ERV.
 ALARMS:
 • FAN FAILURE
 • WHEEL FAILURE



SEQUENCE OF OPERATION
 A. FAN OPERATION
 THE EXHAUST FAN SHALL MODULATE SPEED TO MAINTAIN THE ROOM DIFFERENTIAL PRESSURE. INITIAL SETPOINT SHALL BE -0.01 IN. W.G. (ADJ.).

3 ERV CONTROLS

4 EXHAUST FAN - DIFFERENTIAL PRESSURE CONTROL



JEFFREY D. ZELINSKI, LICENSE #63822
 EXPIRATION DATE 12/31/2025

ISSUE		
NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

DATE	12/18/2024
JOB NO.	4262.00
DRAWN	DJZ
CHECKED	JDZ

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 TITLE
CONTROLS

FITNESS ROOM SPLIT SYSTEM OUTSIDE AIR NOTES:

PER OMC 2024 402.1 & 402.2, NAUTRAL VENTILATION SHALL BE PROVIDED THROUGH WINDOWS, DOORS, LOUVERS AND OTHER OPENINGS THAT WITH OPERATING MECHANISMS FOR THE OCCUPANT, THE MINIMUM OPERABLE AREA TO THE OUTDOORS SHALL BE 4% OF THE FLOOR AREA.

THE FITNESS ROOM FLOOR AREA IS 393 SQ. FT., WHICH REQUIRES 15.72 SQ. FT. OF OPERABLE OPENING.

THE FITNESS ROOM IS PROVIDED WITH A "NANADOOR" WHICH HAS A TOTAL OPERABLE AREA OF 93.6 SQ. FT. THE DOOR IS SPLIT INTO FOUR SEGMENTS WHICH HAVE AN INDIVIDUAL AREA OF 22.5 SQ. FT., THUS ONLY REQUIRING ONE DOOR TO BE OPENED.

Huber Heights Fire Station 23 - ADDITION
ERV-1 & FC-1
Inputs for System
Inputs for Potentially Critical Zones
Results
Detailed Calculations

FC-1 OUTSIDE AIR NOTES:

OMC CHAPTER 4 OA VENTILATION REQUIRED: 102 CFM
ERV-1 EXHAUST AIRFLOW: 325 CFM

OUTSIDE AIR PROVIDED: 325 CFM

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JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

Renovation and Addition
Huber Heights Fire Station 23
7435 Old Troy Pike, Dayton, Ohio 45424

Table with 3 columns: NO., DATE, DESCRIPTION. Row 1: 12/18/2024 FOR CONSTRUCTION

Table with 2 columns: FIELD, VALUE. Fields: DATE (12/18/2024), JOB NO. (4262.00), DRAWN (DJZ), CHECKED (JDZ), TITLE (VENTILATION)

SHEET NO.
H5.1
PROJECT # 24045

NAUMAN & ZELINSKI LLC
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 Fax: (937) 223-3843

GENERAL NOTES

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.
- B. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.
- C. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- D. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.
- E. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.
- F. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.
- G. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- H. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- I. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC.
- J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK.
- K. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

ELECTRICAL SPECIFICATIONS CONT'D

- Y. NEATLY LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.
- Z. LABEL ALL PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH.
- AA. LABEL ALL DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED.
- AB. ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. COORDINATE LOCATIONS AND TYPE/SIZE WITH THE SYSTEMS VENDOR FOR OPTIMUM CABLE ROUTING.
- AC. DISCONNECT SWITCHES SHALL BE HEAVY DUTY; FUSIBLE TYPE TO UTILIZE "RK1" FUSES.
- AD. LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE BY HUBBELL, LEVITON, COOPER CONTROLS OR SENSOR SWITCH, CEILING MOUNTED SENSORS SHALL BE LOW PROFILE, "DOME" TYPE SENSORS.
- AE. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT - 600 VOLTS NOMINAL OR LESS FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL - 110.32 WORK SPACE ABOUT EQUIPMENT - 110.33 ENTRANCE AND ACCESS TO WORK SPACE - 110.34 WORK SPACE AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION.
- AF. EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE REMOVED BACK TO SOURCE. REMOVE ALL UNUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK. DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.
- AG. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.
- AH. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

ELECTRICAL SPECIFICATIONS

- A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2024 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE. PANELBOARDS, CIRCUIT BREAKERS AND DISCONNECTS BY SQUARE D.
- C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.
- D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.
- E. STAGGER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN ON OPPOSITE SIDES OF STUD WALL PARTITIONS TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS.
- F. DRAWINGS ARE SCHEMATIC IN NATURE TO REPRESENT REQUIRED EQUIPMENT/DEVICES AND ASSOCIATED POWER/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR DEVICE LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL LOCATIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE ALARM AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK, FIXED FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING OBSTRUCTIONS. RECEPTACLES ASSOCIATED WITH ADJACENT TECHNOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME MOUNTING HEIGHT AND WITHIN 6" HORIZONTALLY UNLESS SPECIFICALLY NOTED OTHERWISE.
- G. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENTS IN LOCATIONS OF SYSTEMS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUIT(S), DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.
- H. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THHN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.
- I. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE.
- J. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT OR MC CABLING AS ALLOWED BELOW. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR 20 AMP CIRCUITS, FINAL CONNECTION TO INDOOR LIGHT FIXTURES, AND DROPS TO RECEPTACLES IN WALLS. MC CABLING IS NOT PERMITTED TO BE USED FOR EXPOSED CONDUIT LOCATIONS. ALL HOME RUN BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. THE HOME RUN CONDUIT SHALL ORIGINATE AT THE PANEL BOARD AND SHALL TERMINATE AT THE LAST CONNECTED DEVICE ON THE CIRCUIT OR IN THE CENTER OF THE ROOM/AREA THAT THE CIRCUIT SERVES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.
- K. EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.
- L. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED TYPE WITH THEADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.
- M. BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.
- N. ALL EMPTY CONDUITS INSTALLED FOR ANY LOW VOLTAGE CABLING USES INCLUDING VOICEDATA, SECURITY, AV, MONITORING OR ANY OTHER LOW VOLTAGE USES SHALL HAVE NYLON BUSHINGS INSTALLED ON ALL CONDUIT OPEN ENDS.
- O. ALL EMPTY CONDUITS SHALL HAVE A NYLON PULLSTRING INSTALLED PER SPECIFICATIONS.
- P. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR, WITH WHITE COLOR NYLON COVERPLATES, HUBBELL, P&S, COOPER OR LEVITON. PROVIDE TAMPER-RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.
- Q. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.
- R. IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.
- S. PROVIDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD AND ROOM DESCRIPTION WITH ROOM NUMBER AND TYPE. UPDATE ALL EXISTING PANEL DIRECTORIES WITH NEW TYPED DIRECTORY CARDS WITH ALL CIRCUIT REVISIONS NOTED.
- T. ALL SPARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.
- U. THE TOTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT BREAKER FOR THAT CIRCUIT.
- V. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.
- W. THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.
- X. IDENTIFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY NEATLY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS WITH INDELIBLE MARKER.

ELECTRICAL LEGEND CONT'D

- FIRE ALARM NOTIFICATION APPLIANCE POWER EXTENDER PANEL. PROVIDE 20A-120V CIRCUIT FROM LOCAL EMERGENCY PANEL. INDICATED CONNECT TO MAIN FIRE ALARM PANEL FOR NOTIFICATION SIGNALING.
- TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1.
- TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T2.
- DOOR ACCESS CONTROL SYSTEM CARD READER - 46" M.H. REFER TO DETAIL.
- CCTV CAMERA. F = FIXED; PTZ = PAN/TILT/ZOOM.
- ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES SHALL BE FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS BY THE EQUIPMENT SUPPLIER (120 VOLT SINGLE PHASE OPERATION).
- PUSHPLATE DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.).
- PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED ON PLAN).
- BUZZER (90" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING.
- 4" DIAMETER BELL (90" M.H.).
- FLUSH MOUNTED CEILING SPEAKER.
- WALL MOUNTED SPEAKER (96" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR NEAREST CABLE TRAY.
- TRUMPET TYPE SPEAKER (96" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR NEAREST CABLE TRAY.
- CEILING FAN FURNISHED AND INSTALLED BY H.C.; WIRED BY E.C.
- CEILING FAN CONTROL SWITCH (46" M.H.).

FIRE ALARM SYSTEM SPECIFICATIONS

- A. FURNISH AND INSTALL NEW FIRE ALARM DEVICES AND MODIFY SYSTEM TO MATCH AND BE COMPATIBLE WITH THE BUILDING'S EXISTING HONEYWELL "FIRE-LITE" FIRE ALARM SYSTEM. THE E.C. SHALL UTILIZE THE BUILDING'S FIRE ALARM VENDOR FOR THE MODIFICATION AND EXTENSION OF THE EXISTING SYSTEM AND SHALL PROVIDE ADDITIONAL POWER SUPPLY/BATTERY/INAC REQUIREMENTS TO SUPPORT ADDITIONAL AV DEVICES. THE E.C. SHALL BE RESPONSIBLE FOR OBTAINING FIRE ALARM PERMITTING AND INSPECTION PER THE LOCAL AHJ. THE E.C. SHALL FOLLOW THE EXISTING BUILDING INSTALLATION METHODS FOR CONDUIT AND CABLING AND DEVICES. PROVIDE CABLING BOXES FOR FLUSH/SEMI-FLUSH DEVICES. VENDOR IS MEGACITY FIRE AND SECURITY; 937-879-5000.
- B. ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT IN WALLS AND WHERE EXPOSED. BOXES AND COVERS SHALL BE RED COLOR. MINIMUM CONDUIT SIZE SHALL BE 0.75" TRADE SIZE. ALL FIRE ALARM WIRING IN BAY AREA AND OTHER AREAS WHERE EXPOSED SHALL BE INSTALLED IN CONDUIT.
- C. FIRE ALARM CABLES MAY BE INSTALLED OPEN-WIRED ONLY WHERE RUN ABOVE LAY-IN CEILING AREAS AND IN ATTICS. CABLES SHALL BE PLENUM RATED AND SHALL BE SUPPORTED FROM A SYSTEM OF J-HOOKS (AT MAXIMUM 5' SPACING) INDEPENDANT FROM ANY OTHER SYSTEM CABLING.
- D. ALL FIRE ALARM CABLING SHALL BE RED AND FIRE ALARM LISTED.

ELECTRICAL INDEX OF DRAWINGS

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SEISMIC REQUIREMENTS

THIS PROJECT HAS SEISMIC REQUIREMENTS. REFER TO HVAC DRAWING SHEET H0.1.

ELECTRICAL LEGEND CONT'D

- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
- 20A-125V TAMPERPROOF RECEPTACLE, NEMA 5-20R, (18" M.H.).
- 20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.). WITH HUBBELL #WPP28M CAST ALUMINUM "WHILE-IN-USE" COVER.
- 20A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R, (18" M.H.).
- 30A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
- 50A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" M.H.)
- SINGLE POLE WALL SWITCH (46" M.H.)
- TWO POLE WALL SWITCH (46" M.H.).
- THREE-WAY WALL SWITCH (46" M.H.).
- FOUR-WAY WALL SWITCH (46" M.H.).
- LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
- LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND POWER ON-OFF "DECORATOR" STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND 3-WAY POWER ON-OFF "DECORATOR" STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- LIGHTING VACANCY SENSOR WALL SWITCH WITH MANUAL 'ON' PUSHBUTTON AND DUAL TECHNOLOGY MOTION SENSOR TO AUTOMATICALLY TURN 'OFF' WHEN ROOM UNOCCUPIED (46" M.H.).
- 0-10V LED COMBINATION VACANCY SENSOR AND DIMMER SWITCH WITH PRESET SLIDE CONTROL AND SEPARATE ON-OFF "DECORATOR" STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED, RATED MIN. 800 WATTS.
- FAN SPEED CONTROLLERS INSTALLED AND WIRED BY E.C. (46" M.H.).
- KEY OPERATED WALL SWITCH (46" M.H.). HUBBELL # HBL 1221 RKL WITH #512RKL COVERPLATE.
- FLUSH FRACTIONAL HORSEPOWER MOTOR STARTER WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" M.H.).
- HP RATED WALL SWITCH (46" M.H.).
- OCCUPANCY SENSOR, CEILING MOUNTED.
- OCCUPANCY SENSOR CONTROL RELAY.
- DISCONNECT SWITCH
- MOTOR STARTER OR VFD.
- COMBINATION MOTOR STARTER OR VFD AND DISCONNECT SWITCH.
- ELECTRIC MOTOR.
- UNIT HEATER.
- FAN COIL UNIT.
- CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
- CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
- NEW DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
- EXISTING DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED M.H.).
- TELEPHONE OUTLET (18" M.H. EXCEPT WHEN SHADED, MOUNT 46" M.H. UNLESS OTHERWISE INDICATED M.H.). SINGLE GANG OUTLET BOX WITH BLANK COVERPLATE. STUB AN EMPTY 1" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
- WIRELESS WIFI ACCESS POINT; CEILING MOUNTED.
- FIRE ALARM HORN & SIGNAL LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
- FIRE ALARM SIGNALING LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
- FIRE ALARM SENDING STATION (46" M.H.).
- CEILING MOUNTED SMOKE DETECTOR.
- CEILING MOUNTED HEAT DETECTOR.
- DUCT MOUNTED SMOKE DETECTOR (S/SUPPLY, R/RETURN).
- ELECTRO-MAGNETIC DOOR HOLDER.
- FIRE ALARM CONTROL OR SUPERVISORY INPUT RELAY AS NOTED. CONTROL RELAY TO HAVE FORM "C" CONTACT RATED MIN. 5 AMPS AT 120VAC.
- WATER FLOW SWITCH.
- DUCT MOUNTED DETECTOR REMOTE TEST STATION AND ALARM INDICATOR.
- SMOKE DAMPER
- CEILING MOUNTED SMOKE/CARBON MONOXIDE DETECTOR.

GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- WP WEATHER PROOF.
- NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- ROOM NUMBER.
- DETAIL SYMBOL
- DETAIL "B" SHOWN ON SHEET E2.
- SECTION SYMBOL
- SECTION "A" DESIGNATION, SHOWN ON SHEET E1.
- 1 HOUR FIRE PROTECTION
- SEE SPECIFICATION FOR PENETRATION DETAILS
- 2 HOUR FIRE PROTECTION
- SEE SPECIFICATION FOR PENETRATION DETAILS
- 3 HOUR FIRE PROTECTION
- SEE SPECIFICATION FOR PENETRATION DETAILS
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

ELECTRICAL LEGEND

- ELECTRICAL CONNECTION REQUIRED.
- EXIT LIGHTING FIXTURE. ARROWS AS INDICATED.
- LIGHTING FIXTURE: CAPITAL LETTER DENOTES FIXTURES TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
- LIGHTING FIXTURE ON NIGHT LIGHT CIRCUIT.
- WIRE RUN IN SURFACE RACEWAY.
- WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
- EXISTING WIRE & CONDUIT.
- EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
- WIRE & CONDUIT IN WALL OR ABOVE CEILING.
- WIRE & CONDUIT UNDERGROUND.
- JUNCTION BOX.
- DASHED SYMBOL INDICATES THAT PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
- EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
- 20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS (1 USB 'A'; 1 USB 'C' PORT), NEMA 5-20R (18" M.H.) USB TYPE A-C CHARGING PORTS WITH MINIMUM 5 AMPS COMBINED CHARGING POWER.
- 20A-125V DUPLEX RECEPTACLE WITH INTEGRAL NIGHT LIGHT ACCESSORY. DEVICE SHALL HAVE LED NIGHT LIGHT IN FACE OF DEVICE WITH PHOTO-SENSOR CONTROL, NEMA 5-20R (18" M.H.).
- SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.
- 20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, (18" M.H.) TWO-GANGS ASSEMBLY. D = DOUBLE DUPLEX.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.) UNLESS OTHERWISE INDICATED D = DOUBLE DUPLEX.
- 20A-125V SPLIT DUPLEX RECEPTACLE, NEMA 5-20R WITH BOTTOM OUTLET CONTROLLED BY WALL SWITCH (18" M.H.).

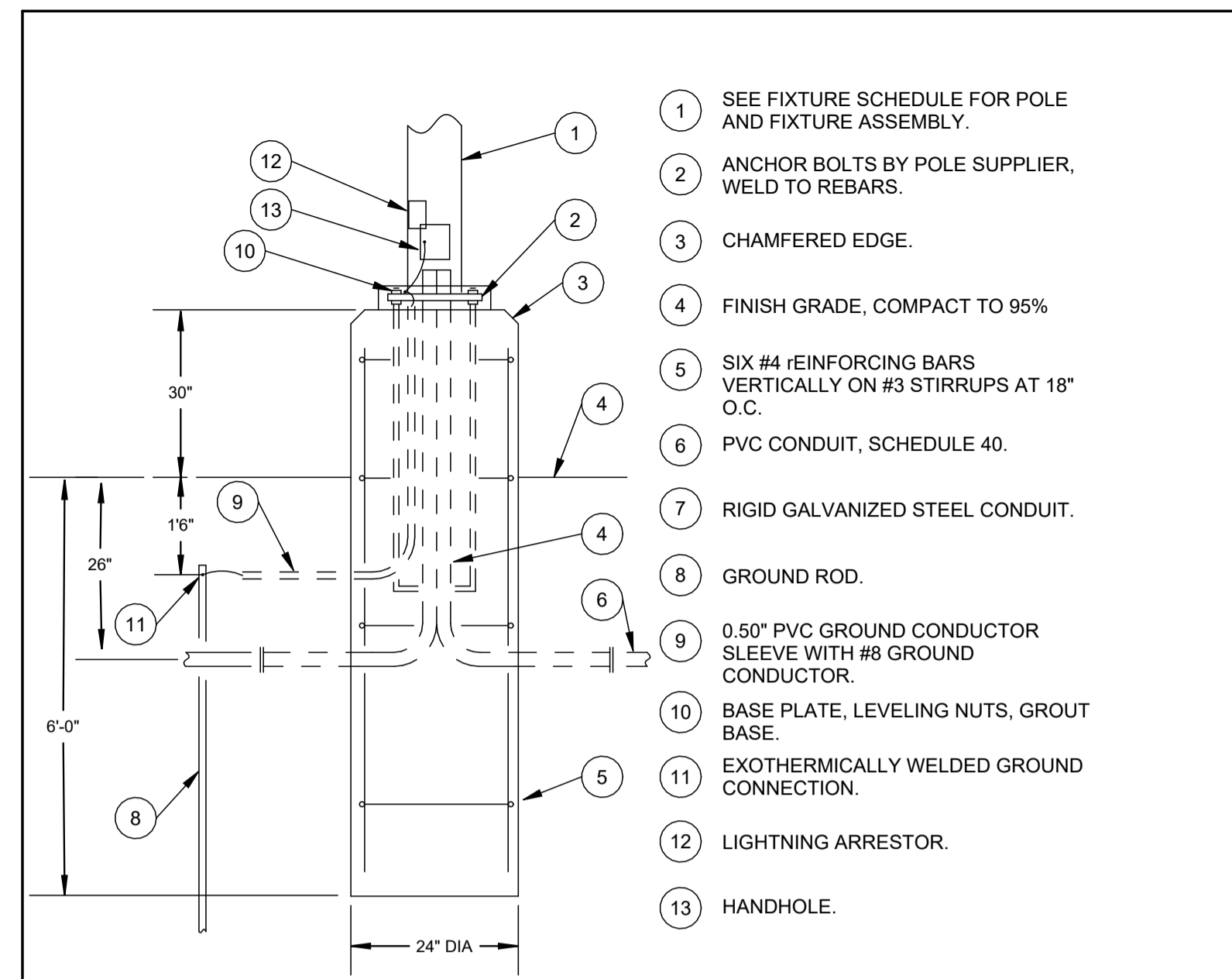
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	12/18/2024	FOR CONSTRUCTION

DATE	12/18/24
JOB NO.	4262.00
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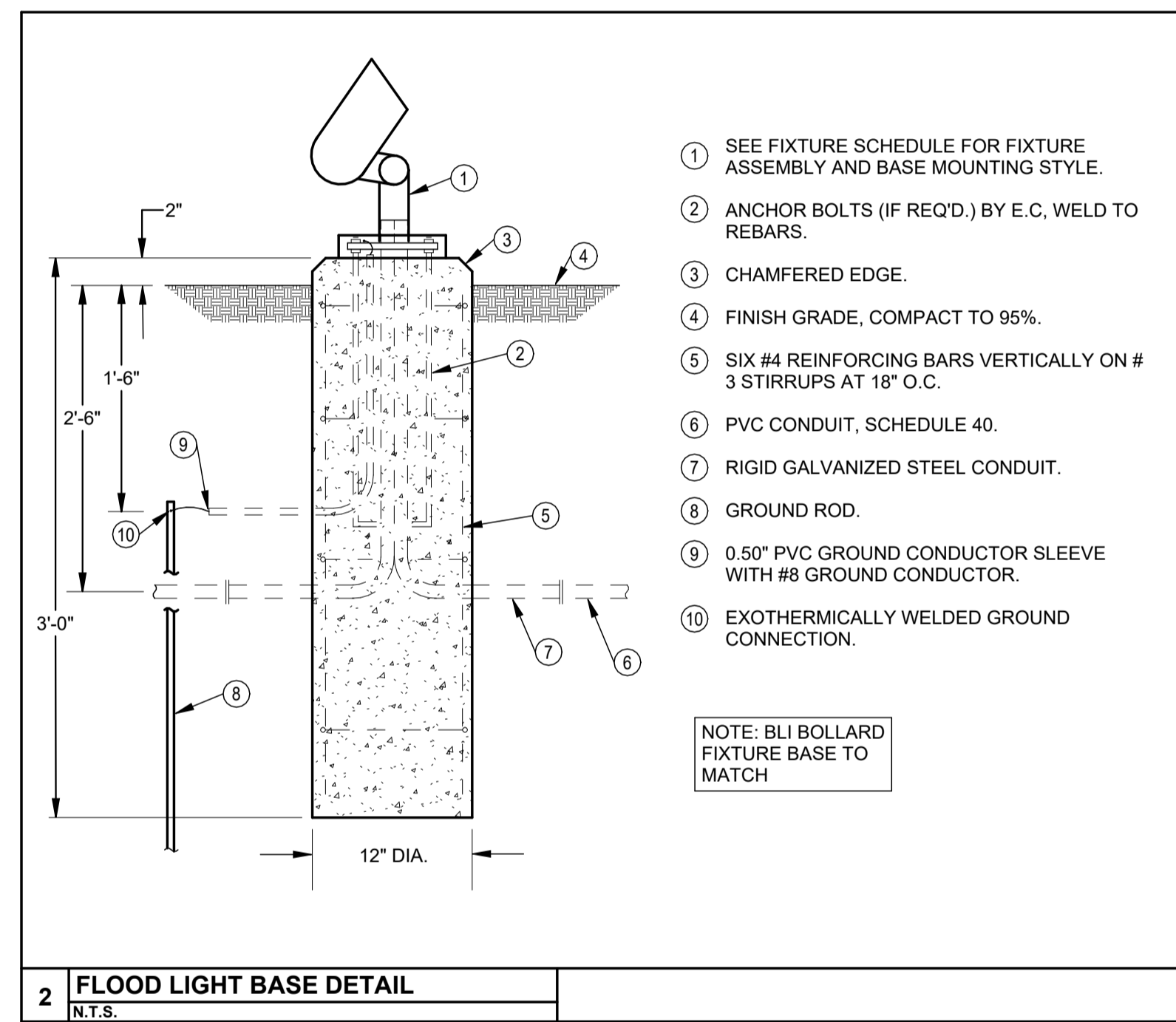
TITLE
LEGENDS AND SCHEDULES

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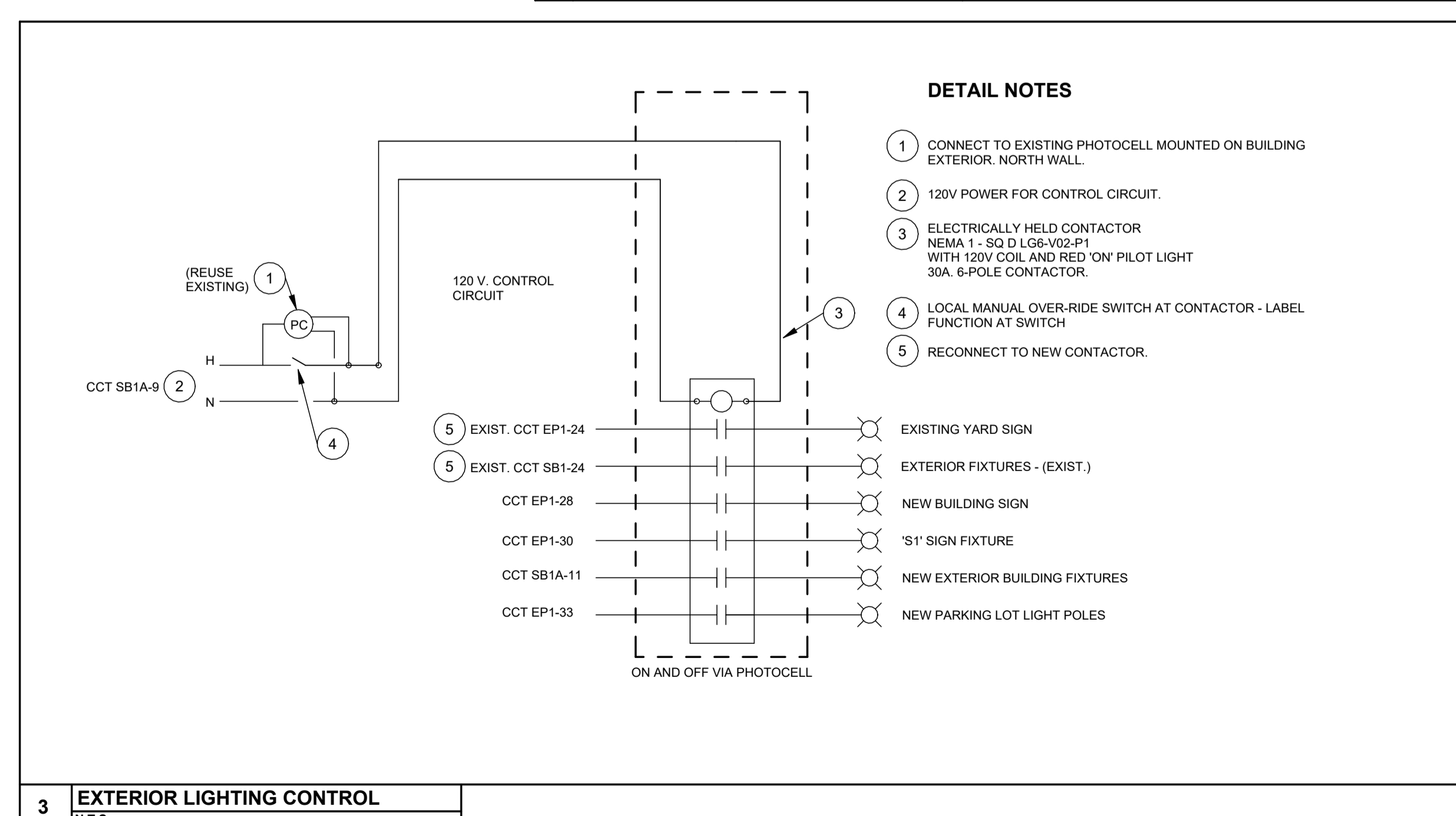
E0.1



1 TYPICAL POLE BASE DETAIL - RAISED
N.T.S.



2 FLOOD LIGHT BASE DETAIL
N.T.S.



3 EXTERIOR LIGHTING CONTROL
N.T.S.

LIGHTING FIXTURE SCHEDULE

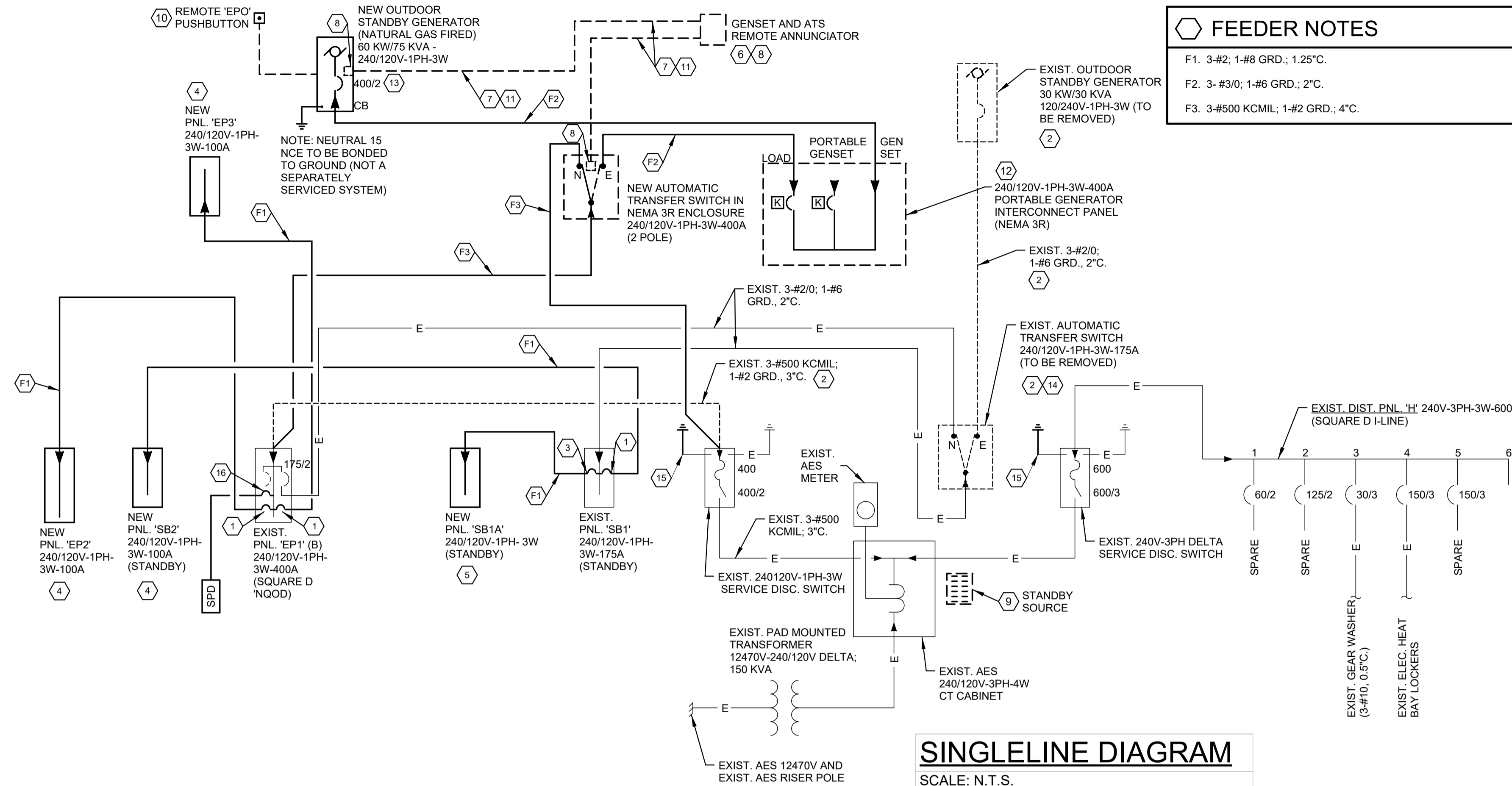
FIXTURE SYMBOL	LUMINAIRE			FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURERS	DIFFUSING MEDIA	TRIM COLOR				MOUNTED			SIZE			SEE NOTES
	LED	LOW VOLTAGE	WATTS/FIXTURE					LUMENS/COLOR TEMP	WHITE	BLACK	ALUMINUM	BRONZE	STANDARD	SEE NOTES	S - SURFACE, R - RECESSED, SM - STEM MTD, WM - WALL MTD, C - CHAIN MTD, UC - UNDER CAB, CS - CLG. SURF.	WIDTH	LENGTH	
B1	•		20	2500 LUMENS/4000K	120	LITHONIA# CPX 2X2-AL07-(2500LM)-80CRI-SWW7-SWL-(40K)-MVOLT	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•				R(GRID)	24	24	2	2,13	
B2	•		27	3200 LUMENS/4000K	120	LITHONIA# CPX 2X2-AL07-(3200LM)-80CRI-SWW7-SWL-(40K)-MVOLT	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•				R(GRID)	24	24	2	2	
B3	•		33	4800 LUMENS/4000K	120	LITHONIA# CPX 2X2-AL07-(4000LM)-80CRI-SWW7-SWL-(40K)-MVOLT	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•				R(GRID)	24	24	2	2	
C1	•		32	5000 LUMENS/4000K	120	LITHONIA# CLX L48 5000LUM SEF FDL MVOLT GZ10 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•				WM/S/SM	3	48	3		
C2	•		64	10000 LUMENS/4000K	120	LITHONIA# CLX L96 10000LM SEF FDL MVOLT GZ10 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•				WM/S/SM	3	96	3		
C3	•		18	2500 LUMENS/4000K	120	LITHONIA# CLX L24 2500LUM SEF FDL MVOLT GZ10 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•				WM/S	3	24	3		
D1	•		50	5400 LUMENS/4000K (BLUE UPLIGHT)	120	LUX ILLUMINAIRE # EOS - 3.0 - W - D1 - ASY - 1000LM FT - 4000K - LAM - STATIC - BLUE - 500LM/FT - 4' - 8.2-120 - S1 - DMX - W (CUSTOM)	LUMENWERX, PMC	UPLIGHT AND DOWNLIGHT / ACRYLIC LENS - BLUE UPLIGHT	•				WM (6'-8" A.F.F)	3.5	48	4	2,12, 13	
D2	•		10	1300 LUMENS/3000K	120	LITHONIA# FMV7SL-24IN-MVOLT-30K-90CRI-BN-M4	COLUMBIA, DAYBRITE	SQUARE WHITE LENS	•				WM @ MIRROR (7'-0" A.F.F)	6	24	4	13	
F1	•		19	1500 LUMENS / 4000K	120	LITHONIA# LDN6 AL02-SWW1-LO6AR LSS 120 UGZ TRW	PRESCOLITE, LITEOLIER	SEMI SPECULAR REFLECTOR	•				R	6	6	2,8,13		
F2	•		13	950 LUMENS/4000K	120	LITHONIA# WF6-REG-SWW5-90CRI-MW-M6	PRESCOLITE, LITEOLIER	REGRESSED BAFFLE/ WHITE LENS	•				R-SHOWER	2	7	2,9,13		
F3	•		19	1000 LUMENS / 4000K	120	LITHONIA# LDN6 AL02-SWW1-LO6AR LSS 120 UGZ TRW	PRESCOLITE, LITEOLIER	SEMI SPECULAR REFLECTOR	•				R	6	6	2,8,13		
F4	•		14	1500 LUMENS / BLUE	120	CONTECH PR3D - 15L - 40K - WF - MVD2 - P3RT - R - PLW - P3RDING - HB30 - LF16B - 67MM	KENALL	SEMI SPECULAR REFLECTOR	•				R	4	5.5	14		
K1	•		24	2300 LUMENS/4000K	120	LITHONIA #WDGE2	GARDCO	MATTE WHITE ACRYLIC DIFFUSER	•				WM					
L1	•	5.0W/FT	560	LUMENS/FT / 4000K	24	ACOLYTE # CHAC2 - F - WHIRB - 90 - SWS220 - 5.0 - 40 - 1 - F1 - XX - (PER PLAN) WITH 0-10V DIMMING	LUMINII	FROSTED LENS	•				S	.63	PER PLAN	.63	2,17, 18,19	
UC	•	3.1W/FT	330	LUMENS/FT / 4000K	24V	OMNILIGHT 'TRU-FIT'-41K-S0-XX-TAPE LIGHT WITH OCH-SWC-CC-FR-WH HOUSING AND LENS	ACOLYTE	FROSTED LENS	•				S-STRIP	0.96	PER PLAN	0.6	10,11	
UC1	•		7	500 LUMENS/4000K	120	LITHONIA #UPLD-14IN-30K-90CRI-SWR-WH	CONTECH, NORA	MATTE WHITE LENS	•			2	UC (OR SHELF)	4	14	1	13	
UC2	•		12	800 LUMENS/4000K	120	LITHONIA #UPLD-22IN-30K-90CRI-SWR-WH	CONTECH, NORA	MATTE WHITE LENS	•			2	UC (OR SHELF)	4	22	1	13	
P1	•		23	2000 LUMENS/4000K	120	LITHONIA LDN4-CYL-40K-2000-L04-AR-LSS-GZ10-PM-DBL	PRESCOLITE, LIGHTLOIER	SEMI SPECULAR DOWNLIGHT REFLECTOR	•				PENDANT CYLINDER BOTTOM 9'-0" AFF	12		6.1	2,6,13	
BL1	•		20	800 LUMENS / 4000K	120	LITHONIA# KBD8 LED-16C-530-40K-SYM-120-DNAXD	HUBBELL, LITON	SYMMETRIC CUTOFF LENS	•				BOLLARD BASE	42		8	3,7	
FL1	•		20	2600 LUMENS / 4000K	120	LITHONIA# DSXF1-LED-P1-40K-NSP-MVOLT-IS-DDBXD	HUBBELL, GARDCO	NARROW SPOT FLOODLIGHT	•				S (GRADE)	8.9	13.4	3.7	7	
PL1/ PL1R	•		93	10000 LUMENS / 4000K	120	LITHONIA# DSX3-LED-P4-40K-T2-MVOLT-SPA-DBXD/SSS-20-4C-DM19AS-DBXD (FDL-1.6 OPTION)	BEACON, GARDCO	FULL CUTOFF (SHIELDING)	•				20' (5") SQUARE STEEL POLE	13	26	7	4,7	
S1	•	15W/FT	4333	LUMEN (3' SEGMENTS)	120	INSIGHT MX - H0 - LFS - D - ASY - CES - (QTY 2) 36 - DMXDM - XXX - WITH CELDMX - CDS - RDM - DMX POWER SUPPLY	LUMEN PULSE	WALL WASH ASYMETRIC LENS	•				S - SOFFIT	3.25	72	6	9,15, 16	
X1	•		5W	---	120	LITHONIA # LQM-SW3R-120/277-EL-N-M6	COMPASS, CHLORIDE	LED EXIT RED LETTERS ON WHITE - SINGLE FACE	•				WM OR CLG SURFACE	2	12	8	1	
X2	•		5W	---	120	LITHONIA # LQM-SW3R-120/277-EL-N-M6	COMPASS, CHLORIDE	LED EXIT RED LETTERS ON WHITE - DOUBLE FACE	•				WM OR CLG SURFACE	2	12	8	1	
EMX1	•		5W	TWO LAMPS	120	LITHONIA ECRG-HO-SG-M6	COMPASS, CHLORIDE	LED EXIT RED LETTERS ON WHITE - SINGLE FACE	•				WM - ABOVE DOOR	9	19	4	5	
EM	•		5W	TWO 1W LAMPS	120	LITHONIA #EU2C	COMPASS, CHLORIDE	EMERGENCY LIGHT - TWIN HEAD	•				WM 7'-6"	4	14	4		
EMH	•		2	-	6V	LITHONIA ERE-W-SGL-WP-SG	COMPASS, CHLORIDE	REMOTE HEAD	•				WM	6	5	5	9	

- NOTES:**
- BATTERY EXIT LIGHT - W=WALL MOUNT; C=CEILING MOUNT.
 - 0-10V DIMMING TO 10 PERCENT.
 - CONFIGURABLE (2500-3200-4000) LUMENS AND (3500-4000-5000K) COLOR TEMPERATURE, SET AS NOTED.
 - 'R' SUFFIX POLES INCLUDE 'FDL-1-6' PROVISIONS FOR CONTRACTOR FURNISHED GFCI RECEPTACLE AND 'IN USE' COVER 1'-6" ABOVE BASE OF POLE
 - HIGH OUTPUT BATTERY.
 - COORDINATE FIXTURE SUSPENSION HEIGHT WITH ARCHITECT.
 - REFER TO BASE DETAIL.
 - F1 - CONFIGURABLE (1000 - 1500 - 2000) LUMENS AND (3000 - 3500 - 4000K) COLOR TEMPERATURE; SET AS NOTED.
 - WET LOCATION LISTED
 - FIXTURE FIELD CUTTABLE IN MIN. 0.5" MAX. 2" INCREMENTS - CUT TO FILL SPACE BELOW CABINET. CUT HOUSING AND LENS TO MATCH.
 - PROVIDE 24V DRIVER POWER SUPPLYSIZED FOR FIXTURE RUN; SUITABLE FOR 0-10V DIMMING. MOUNT POWER SUPPLY ABOVE CEILING AND WIRE TO FIXTURE SEGMENT(S) PER MANUFACTURER INSTALLATION INSTRUCTIONS. POWER SUPPLY OMNI-LIGHT APG-XX-E-24 0-10V DIMMABLE (30/60/96/192/288W @3.1 WLF).
 - SEPARATELY CONTROLLED MIN 1400 LUMEN UPLIGHT AND 4000 LUMEN DOWNLIGHT COMPONENTS. UPLIGHT TO BE BLUE COLOR SET AT FACTORY; AND DOWNLIGHT TO BE FORWARD ASYMETRIC THROW.
 - PROVIDE ONE (1) PACKAGED SPARE FIXTURE OF THIS TYPE AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
 - BLUE COLOR LENS
 - PROVIDE DMX DIMMING POWER SUPPLY AND INSIGHT 'LIGHTDIAL' REV NS V/M EA DMX CONTROLLER
 - COLOR SELECTED BY ARCHITECT.
 - PROVIDE ALL MANUFACTURER'S CABLING, MOUNTING HARDWARE, TRIM, FEED ENOS, ETC FOR COMPLETE INSTALLATION.
 - PROVIDE 0-10V DC 120V-24V DC DIMMING DRIVER POWER SUPPLY.
 - COORDINATE FIXTURE LENGTH WITH ACTUAL SITE MEASURED DIMENSIONS.

PHASING NOTES - GENERATOR REPLACEMENT

NOTE: NEW GENERATOR TO BE OPERATIONAL AT COMPLETION OF PHASE ONE.

1. INSTALL, START UP AND TEST NEW GENERATOR AND ATS (INSTALL FEEDER FROM GENERATOR TO ATS).
2. INSTALL NEW CONDUIT FROM NEW OUTDOOR AUTOMATIC TRANSFER SWITCH TO LOCATION OF EXISTING 400A-1PH SERVICE DISCONNECT SWITCH.
3. INSTALL NEW CONDUIT FROM NEW OUTDOOR AUTOMATIC TRANSFER SWITCH TO LOCATION OF EXISTING PANEL 'EP1'.
4. OUTAGE ONE (TIME AS COORDINATED WITH OWNER) - NORMAL UTILITY SERVICE OUTAGE TO CONNECT NEW ATS NORMAL SOURCE WIRING TO EXISTING 400A- SINGLE PHASE SERVICE DISCONNECT SWITCH AND TO CONNECT FROM NEW ATS LOAD TERMINALS TO EXISTING PANEL 'EP1'. NOTE: EXISTING 30 KW GENERATOR TO OPERATE DURING THIS OUTAGE TO POWER EXISTING STANDBY POWER PANEL 'SB1' (AND POWER NEW PANELS 'SB1A' AND 'SB2' AS APPLICABLE).
5. DISCONNECT AND REMOVE FEEDER FROM EXISTING 30 KW GENERATOR TO EXISTING ATS.
6. OUTAGE TWO (TIME AS COORDINATED WITH OWNER) - SHORT OUTAGE OF PANELS 'SB1', 'SB1A', AND 'SB2' TO REMOVE EXISTING ATS AND RECONNECT PANEL 'SB1' FEEDER IN NEW PULLBOX.

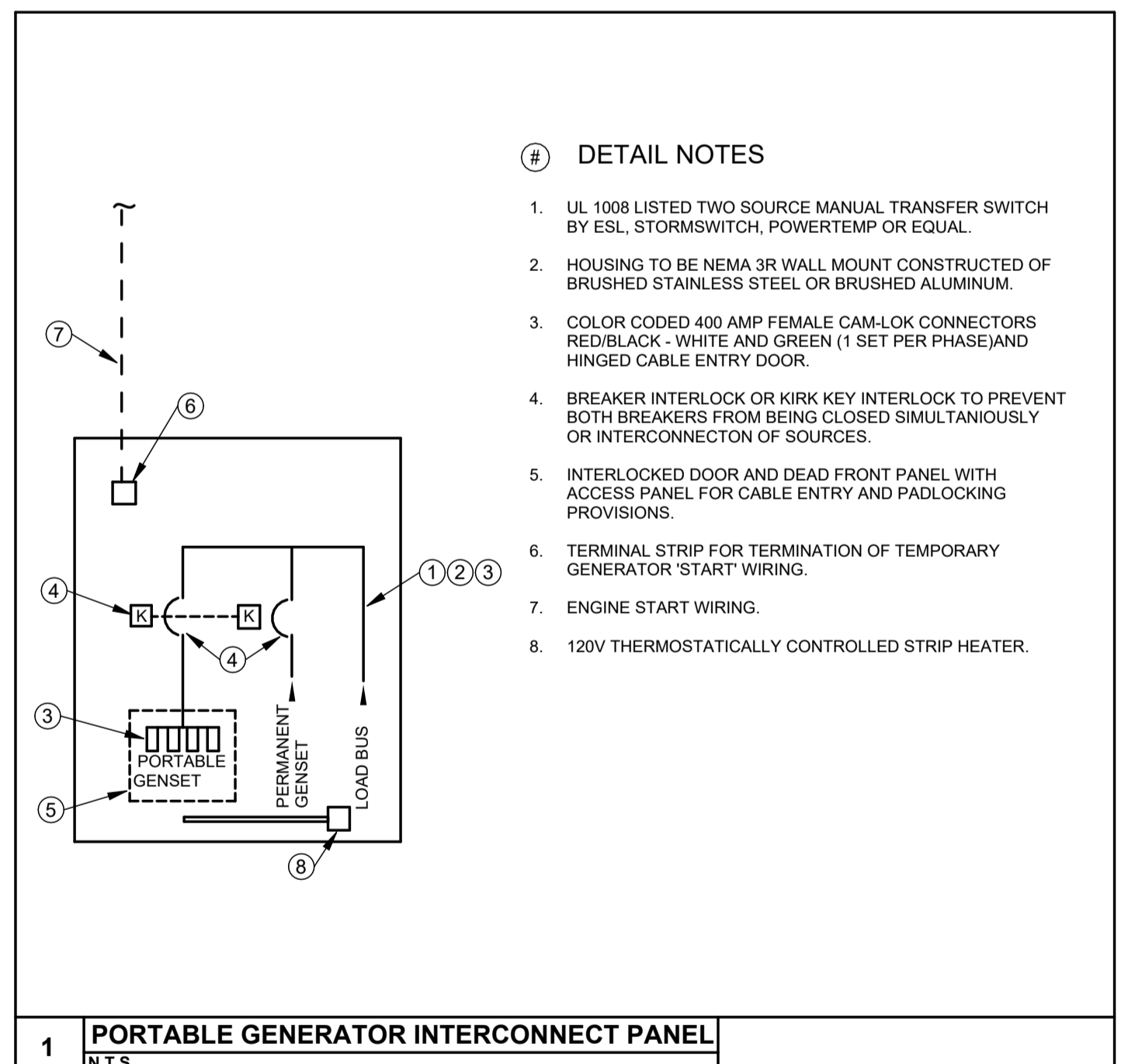


FEEDER NOTES

F1. 3-#2; 1-#8 GRD.; 1.25°C.
 F2. 3-#3/0; 1-#6 GRD.; 2°C.
 F3. 3-#500 KCMIL; 1-#2 GRD.; 4°C.

- CONSTRUCTION NOTES**
1. FURNISH AND INSTALL NEW MATCHING SQUARE D 100A/2P BRANCH BREAKER TO MATCH EXISTING; IN EXISTING SQUARE D PANEL.
 2. REMOVE AFTER NEW GENERATOR SYSTEM IS INSTALLED, OPERATIONAL AND CONNECTED TO DISTRIBUTION SYSTEM.
 3. FURNISH AND INSTALL NEW MATCHING SQUARE D 70A/2P BRANCH BREAKER TO MATCH EXISTING; IN EXISTING SQUARE D PANEL.
 4. NEW PANEL TO BE SQUARE D 'N'OOD' STYLE WITH BOLTED BREAKERS AND HINGED COVER.
 5. NEW PANEL TO BE SQUARE D 'N'OOD' STYLE WITH BOLTED BREAKERS AND 14" WIDE TUB.
 6. REMOTE ANNUNCIATOR FOR GENERATOR WITH NFPA 110 ALARMS AND ALSO TO MONITOR EMERGENCY POSITION OF TRANSFER SWITCH BY WIRING TO AUX. ATS CONTACTS.
 7. FURNISH AND INSTALL CONTROL WIRING IN CONDUITS TO GENERATOR AND TRANSFER SWITCHES AND REMOTE INTERCONNECT PANEL PER MFR. DIRECTION.
 8. WIRE TO GENERATOR AND TRANSFER SWITCHES PER VENDOR DIRECTION.
 9. PROVIDE ENGRAVED RED WARNING SIGN ON SWITCHBOARD TO READ "STANDBY SOURCE GENERATOR LOCATED OUTDOORS. GENERATOR IS NOT A SEPARATELY DERIVED SYSTEM".
 10. INSTALL OUTDOORS ON BUILDING NEAR GENERATOR - REFER TO FLOOR PLAN.
 11. PROVIDE SEPARATE RACEWAYS FOR COMMUNICATION/DATA WIRING AND POWER/CONTACT CLOSURE WIRING - DO NOT INSTALL DATA CABLES IN SAME CONDUIT WITH POWER AND CONTACT CLOSURE CABLES AS DIRECTED BY VENDOR.
 12. REFER TO 'PORTABLE GENERATOR INTERCONNECT PANEL' DETAIL ON THIS SHEET.
 13. GENERATOR MCB SIZE MAX. 400 AMP.
 14. PROVIDE NEW 16"x16"x6" DP PULLBOX AND PUNCH FOR 2-2°C. ENTRIES TO MATCH ATS - REMOVE ATS AND INSTALL BOX IN PLACE - RECONNECT EXISTING PHASE, NEUTRAL AND GROUND CONNECTIONS IN BOX WITH NEW CLEAR-TAP 2 BARREL SPLICES.
 15. BOND TO NEW WATER SERVICE.
 16. ADD 30A/3P BREAKER TO MATCH EXISTING AND PROVIDE SPD MOUNTED NEAR PANELBOARD (3-#6; 1-#6 GRD.; 1°C).

SINGLELINE DIAGRAM
SCALE: N.T.S.



- DETAIL NOTES**
1. UL 1008 LISTED TWO SOURCE MANUAL TRANSFER SWITCH BY ESL, STORMSWITCH, POWERTEMP OR EQUAL.
 2. HOUSING TO BE NEMA 3R WALL MOUNT CONSTRUCTED OF BRUSHED STAINLESS STEEL OR BRUSHED ALUMINUM.
 3. COLOR CODED 400 AMP FEMALE CAM-LOCK CONNECTORS RED/BLACK - WHITE AND GREEN (1 SET PER PHASE) AND HINGED CABLE ENTRY DOOR.
 4. BREAKER INTERLOCK OR KIRK KEY INTERLOCK TO PREVENT BOTH BREAKERS FROM BEING CLOSED SIMULTANEOUSLY OR INTERCONNECT OF SOURCES.
 5. INTERLOCKED DOOR AND DEAD FRONT PANEL WITH ACCESS PANEL FOR CABLE ENTRY AND PADLOCKING PROVISIONS.
 6. TERMINAL STRIP FOR TERMINATION OF TEMPORARY GENERATOR 'START' WIRING.
 7. ENGINE START WIRING.
 8. 120V THERMOSTATICALLY CONTROLLED STRIP HEATER.

MOTORS, STARTERS, DISCONNECTS & CONTROLS

MOTOR NUMBER	CIRCUIT NUMBER	NAMEPLATE	HP (KVA OR FLA)	MOTOR CHARACTERISTICS				LOCATION	STARTERS				DISCONNECT MEANS				CONTROL		FEEDER	
				120V-1PH	240V-1PH	208Y-1PH	480V-1PH		TYPE	LOCATION	TYPE	LOCATION	BY E.C.	BY H.C.	NO. OF CONDUCTORS	WIRE SIZE	GRD. SIZE	CONDUIT SIZE		
FC-1	SB2-34	FAN COIL UNIT 1	11 MCA/ 15 MOCP	•				MECH. ROOM												
CU-1	EP3-36	COND. UNIT 1	20 MCA/ 35 MOCP	•				ROOF												
FC-2A	NOTE 3	FAN COIL UNIT 2 A	1 MCA	•				EXERCISE ROOM												
FC-2B	NOTE 3	FAN COIL UNIT 2 B	1 MCA	•				EXERCISE ROOM												
CD-2	EP3-40	COND. UNIT 2	51 MCA/ 86 MOCP/ 45A FUSE	•				ROOF												
ERV-1	EP3-30	ENERGY RECOVERY	20.5 MCA/ 25 MOCP	•				MECH. ROOM												
-	EX CCT	EXIST. COND. UNIT 1	35 MCA/ 60 MOCP	•				ROOF (FINAL)												
-	EX CCT	EXIST. COND. UNIT 2	32 MCA/ 50 MOCP	•				ROOF (FINAL)												
CF-1	Per Plan	CEILING FAN	1A	•				DORM ROOM												
WF-1	Per Plan	WALL FAN	2A	•				FITNESS ROOM												
EUH-1	Per Plan	ELEC. HTR 1	3 KW	•				PER PLAN												
EUH-2	Per Plan	ELEC. HTR 2	1 KW	•				PER PLAN												
EF-1	EP3-14	EXH. FAN No. 1	1/10	•				DECONTAMINATION												
EF-2	EP2-31	EXH. FAN No. 2	1.5 MCA/ 15 MOCP	•				OFFICER RR												
EF-3	EP3-12	EXH. FAN No. 3	1.5 MCA/ 15 MOCP	•				I.T. ROOM												
RCP	EP3-10	HW RECIRC. PUMP	2A	•				MECH. RM												

- NOTES:**
1. CONNECT TO AND EXTEND EXISTING CONDENSING UNIT EXISTING SUPPLY FEEDER TO TEMPORARY AND FINAL LOCATIONS.
 2. COORDINATE FUSE SIZE WITH EQUIPMENT NAMEPLATE MOCP RATING.
 3. EACH FAN COIL UNIT SERVED FROM BRANCH SELECTOR BOX; SERVED FROM CONDENSING UNIT - EXTEND WIRING FROM CONDENSING UNIT TO BRANCH SELECTOR; AND TO FAN COIL UNIT PER SUPPLIER WIRING DIAGRAM.
 4. INSTALL WALL CONTROLLER FURNISHED WITH FAN AND WIRE PER MANUFACTURER INSTRUCTIONS.
 5. REFER TO ECM FAN WIRING DIAGRAM DETAIL 3; ON SHEET H3.4 FOR WIRING REQUIREMENTS.
 6. WIRING SIZE/REQUIREMENTS PER MANUFACTURER INSTALLATION INSTRUCTIONS.

Branch Panel: SB1A

LOCATION: APPARATUS BAYS... MOUNTING: Surface
 SUPPLY FROM: <SUPPLY FROM> ENCLOSURE: Type 1
 VOLTAGE: 120/240 Single-1-3 MCB RATING: 100 A

A.I.C RATING 10,000 A
 MAINS TYPE: M.L.O
 MAINS RATING: 100 A

CKT	Description	Trip	Poles	Note	A	B	Note	Poles	Trip	Description	CKT
1	Generator	20 A	1		1000 VA	0 VA		1	20 A	Spare	2
3	Generator	20 A	1			200 VA	0 VA	1	20 A	Spare	4
5	Generator	20 A	1		200 VA	0 VA		1	20 A	Spare	6
7											8
9	LT Control	20 A	1		100 VA						10
11	L-Exterior	20 A	1			120 VA					12
13											14
15											16
17											18
Total Load:					1300 VA	320 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	120 VA	125.00%	150 VA	Total Conn. Load: 1620 VA Total Est. Demand: 1650 VA Total Conn. Current: 7 A Total Est. Demand: 7 A
Other	100 VA	100.00%	100 VA	
Power	1400 VA	100.00%	1400 VA	

Branch Panel: EP3

LOCATION: CORR. C201 MOUNTING: Surface
 SUPPLY FROM: <SUPPLY FROM> ENCLOSURE: Type 1
 VOLTAGE: 120/240 Single-1-3 MCB RATING: 200 A

A.I.C RATING 22,000 A
 MAINS TYPE: M.L.O
 MAINS RATING: 200 A

CKT	Description	Trip	Poles	Note	A	B	Note	Poles	Trip	Description	CKT
1	R-Sewing	20 A	1		720 VA	180 VA		1	20 A	R-Roof	2
3	R-Sewing	20 A	1			360 VA	180 VA	1	20 A	R-Roof	4
5	R-Sewing	20 A	1		720 VA	360 VA		1	20 A	R-I.T.	6
7	R-Training	20 A	1			720 VA	360 VA	1	20 A	R-Mech.	8
9	R-Training	20 A	1		360 VA	1600 VA		1	15 A	RCP	10
11	R-Training	20 A	1			720 VA	1000 VA	1	15 A	EF-3	12
13	Spare	20 A	1		0 VA	1000 VA		1	15 A	EF-1	14
15	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	16
17	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	18
19											20
21											22
23											24
25											26
27											28
29					1000 VA			1	30 A	ERV-1	30
31											32
33											34
35						1900 VA		2	20 A	CU-1	36
37					1900 VA			--	--	--	38
39						4000 VA		2	90 A	CD-2	40
41					4000 VA			--	--	--	42
Total Load:					11840 VA	9240 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	0 VA	0.00%	0 VA	Total Conn. Load: 21080 VA Total Est. Demand: 21480 VA Total Conn. Current: 88 A Total Est. Demand: 90 A
Motor	1600 VA	125.00%	2000 VA	
Other	0 VA	0.00%	0 VA	
Power	14800 VA	100.00%	14800 VA	
Receptacles	4680 VA	100.00%	4680 VA	

Branch Panel: EP1 (B) (EXISTING)

LOCATION: APPARATUS BAYS... MOUNTING: Surface
 SUPPLY FROM: <SUPPLY FROM> ENCLOSURE: Type 1
 VOLTAGE: 120/240 Single-1-3 MCB RATING: 1 A

A.I.C RATING
 MAINS TYPE: M.L.O
 MAINS RATING: 400 A

CKT	Description	Trip	Poles	Note	A	B	Note	Poles	Trip	Description	CKT	
1	EX. AC1	50 A	2		0 VA	0 VA		2	50 A	EX. AC2	2	
3						0 VA	0 VA	--	--	--	4	
5	EX. DISPOSER	20 A	1		0 VA	0 VA		1	20 A	EX. EWS	6	
7	EX. CCT	20 A	1			0 VA	0 VA	1	20 A	EX. REC	8	
9	EX. DISHWASH	20 A	1		0 VA	0 VA		2	20 A	BAY EXH	10	
11	EX. SF-2	20 A	1			0 VA	0 VA	--	--	--	12	
13	EX. LKR SF	20 A	1		0 VA	0 VA		1	20 A	EX. BAY EXH	14	
15	EX. CCT	20 A	1			0 VA	0 VA	1	20 A	EX. FANS	16	
17	EX. CCT	20 A	1		0 VA	0 VA		1	20 A	EX. FANS	18	
19	EX. DRYER	30 A	2			0 VA	0 VA	1	20 A	EX. CTRL	20	
21					0 VA	0 VA		1	20 A	EX. I.T.	22	
23	EX. RANGE	50 A	2			0 VA	0 VA	1	20 A	EX. SIGN	24	
25					0 VA	0 VA		1	20 A	EX. SIGN REC	26	
27	EX. COMP.	30 A	2			0 VA	0 VA	1	1	20 A	SIGN	28
29					0 VA	35 VA		1	1	20 A	Lighting	30
31						100 VA		1	1	20 A	Cap. Htr.	32
33	POLE LTS	20 A	1		130 VA	100 VA		1	1	20 A	ATS-HTR	34
35	R-Pole LTS	20 A	1			360 VA					36	
37	EP2	100 A	2	1	11840 VA	0 VA		1	1	30 A	SPD	38
39						9240 VA					40	
41											42	
Total Load:					12105 VA	9700 VA						

NOTES:
 1. PROVIDE NEW MATCHING BREAKER OF SIZE NOTED AND INSTALL IN EXISTING SPACE.

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	165 VA	125.00%	206 VA	Total Conn. Load: 21805 VA Total Est. Demand: 22246 VA Total Conn. Current: 91 A Total Est. Demand: 93 A
Motor	1600 VA	125.00%	2000 VA	
Other	100 VA	100.00%	100 VA	
Power	14900 VA	100.00%	14900 VA	
Receptacles	4680 VA	100.00%	4680 VA	
Spare	360 VA	100.00%	360 VA	

Branch Panel: EP2

LOCATION: CORR. C102 MOUNTING: Flush
 SUPPLY FROM: <SUPPLY FROM> ENCLOSURE: Type 1
 VOLTAGE: 120/240 Single-1-3 MCB RATING: 100 A

A.I.C RATING 10,000 A
 MAINS TYPE: M.L.O
 MAINS RATING: 100 A

CKT	Description	Trip	Poles	Note	A	B	Note	Poles	Trip	Description	CKT
1	L-Fitness	20 A	1		265 VA	360 VA		1	20 A	R-Exterior	2
3	Washer	20 A	1			180 VA	180 VA	1	20 A	R-Exterior	4
5	Training	20 A	1		356 VA	360 VA		1	20 A	R-Exterior	6
7	R-Laundry	20 A	1			360 VA	180 VA	1	20 A	R-Exterior	8
9	EUH-1	20 A	2		500 VA	2400 VA		2	30 A	Dryer	10
11						500 VA	2400 VA	--	--	--	12
13	R-Corridor	20 A	1		540 VA	720 VA		1	20 A	R-Fitness	14
15	R-Corridor	20 A	1			900 VA	360 VA	1	20 A	R-Fitness	16
17	EUH-2	20 A	1		1000 VA	180 VA		1	20 A	R-Fitness	18
19	Dryer	30 A	2			2400 VA	360 VA	1	20 A	R-Fitness	20
21					2400 VA	180 VA		1	20 A	Washer	22
23	R-Corridor	20 A	1			360 VA	1000 VA	1	20 A	Extractor	24
25	R-Dayroom	20 A	1		900 VA	0 VA		2	20 A	Wall Oven	26
27	R-Dayroom	20 A	1			360 VA	0 VA	--	--	--	28
29	EUH-2	20 A	1		1000 VA	1500 VA		1	20 A	Dishwasher	30
31	EF-2	15 A	1			100 VA	180 VA	1	20 A	Microwave	32
33	R-Decontam	20 A	1		360 VA	50 VA	GF	1	20 A	Fitness	34
35	Disposer	20 A	1			1600 VA	100 VA	1	20 A	Dampers	36
37	Spare	20 A	1		0 VA	360 VA		1	20 A	R-Fitness	38
39	Spare	20 A	1			0 VA	360 VA	1	20 A	R-Kitchen	40
41	Spare	20 A	1		0 VA	180 VA		1	20 A	Range	42
43	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	44
45	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	46
47											48
49											50
51											52
53											54
Total Load:					13611 VA	11880 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting	621 VA	125.00%	776 VA	Total Conn. Load: 25491 VA Total Est. Demand: 22286 VA Total Conn. Current: 106 A Total Est. Demand: 93 A
Motor	1600 VA	125.00%	2000 VA	
Other	2750 VA	100.00%	2750 VA	
Power	3000 VA	100.00%	3000 VA	
Receptacles	17520 VA	78.54%	13760 VA	

Branch Panel: SB1 (EXISTING)

LOCATION: APPARATUS BAYS... MOUNTING: FLUSH
 SUPPLY FROM: <SUPPLY FROM> ENCLOSURE: Type 1
 VOLTAGE: 120/240 Single-1-3 MCB RATING: 1 A

A.I.C RATING
 MAINS TYPE: M.L.O
 MAINS RATING: 200 A

CKT	Description	Trip	Poles	Note	A	B	Note	Poles	Trip	Description	CKT
1	EX. RECEPT.	20 A	1		0 VA	0 VA		1	20 A	EX. REFRIG.	2
3	EX. RECEPT.	20 A	1			0 VA	0 VA	1	20 A	EX. RECEPT.	4
5	EX. ATC	20 A	1		0 VA	0 VA		1	20 A	EX. RECEPT.	6
7	EX. RECEPT.	20 A	1			0 VA	0 VA	1	20 A	EX. RECEPT.	8
9	EX. RECEPT.	20 A	1		0 VA	0 VA		1	20 A	EX. RECEPT.	10
11	EX. EXT. SIGN	20 A	1			0 VA	0 VA	1	20 A	EX. BAY REC	12
13	EX. CCT	20 A	1		0 VA	0 VA		1	20 A	EX. ...	14
15	EX. CCT	20 A	1			0 VA	0 VA	1	20 A	EX. BAY REC	16
17	EXDR ALRM	20 A	1		0 VA	0 VA		1	20 A	EX. BAY REC	18
19	EX. LTG	20 A	1			0 VA	0 VA	1	20 A	EX. BAY REC	20
21	EX. OH DOOR	20 A	1		0 VA	0 VA		1	20 A	EX. BAY REC	22
23	EX. OH DOOR	20 A	1			0 VA	0 VA	1	20 A	EX. EXT. LTS	24
25	EX. OH DOOR	20 A	1		0 VA	0 VA		1	20 A	EX. BAY LTS	26
27	EX. OH DOOR	20 A	1			0 VA	0 VA	1	20 A	EX. BAY LTS	28
29	EX. LTG	20 A	1		0 VA	0 VA		1	20 A	EX. BAY LTS	30
31	EX. LTG	20 A	1			0 VA	0 VA	1	20 A	EX. ALARM	32
33	EX. LTG	20 A	1		0 VA	0 VA		1	20 A	EX. FA	34
35	EX. EXIT/NL	20 A	1			0 VA	0 VA	1	20 A	EX. FURNACE	36
37	EX. GENSET	20 A	1		0 VA	0 VA		1	20 A	EX. FURNACE	38
39	EX. GENSET	20 A	1			0 VA	0 VA	1	20 A	EX. RF12	40
41	EX. GENSET	20 A	1		0 VA	0 VA		1	20 A	EX. CCT	42
Total Load:					0 VA	0 VA					

NOTES:
 1. REMOVE 2-20A/1P BREAKERS AND PROVIDE NEW MATCHING BREAKER OF SIZE NOTED.

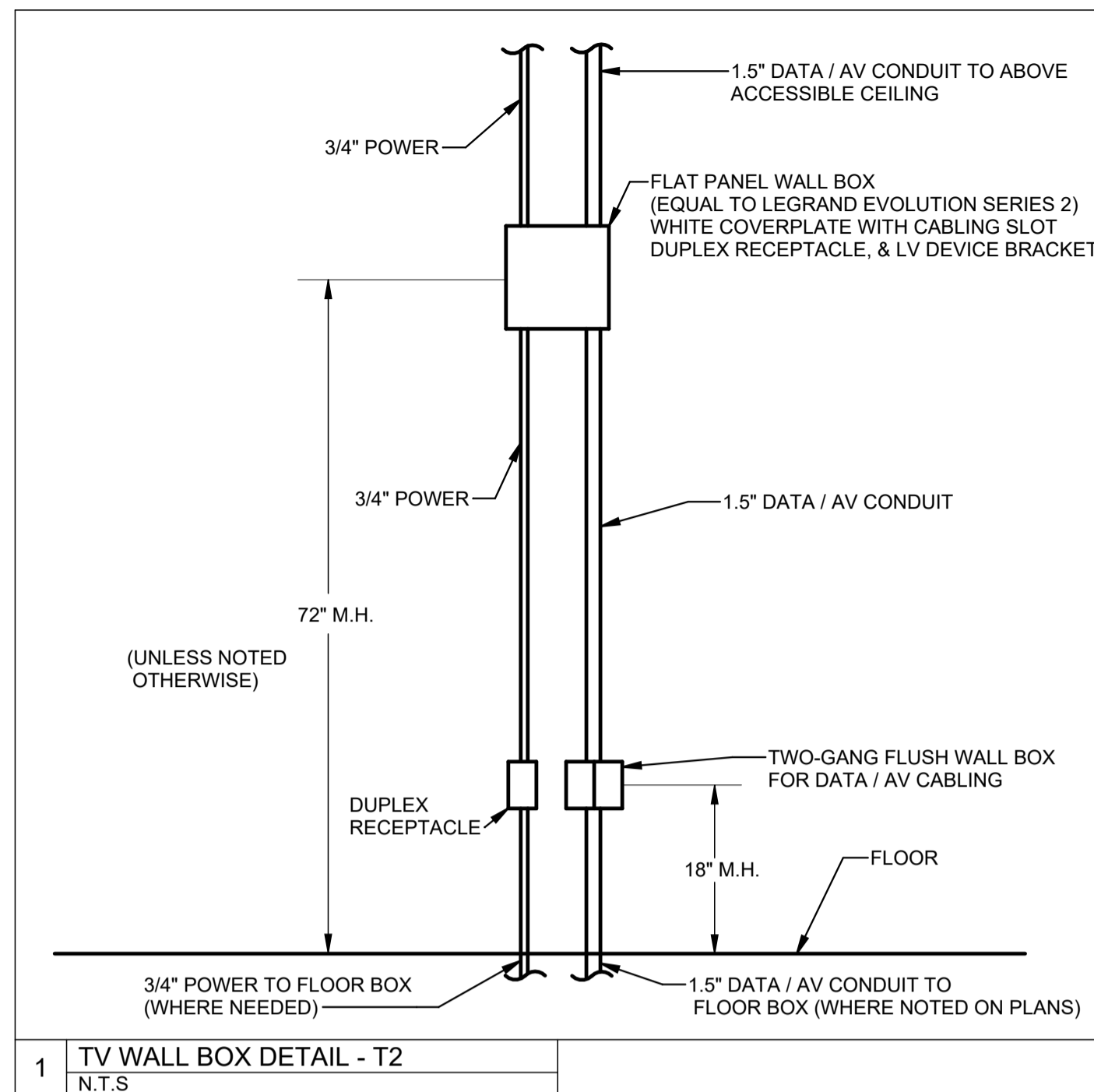
Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Lighting				Total Conn. Load: 0 VA Total Est. Demand: 0 VA Total Conn. Current: 0 A Total Est. Demand: 0 A
Motor				
Other				
Power				
Receptacles				
Spare				

Branch Panel: SB2

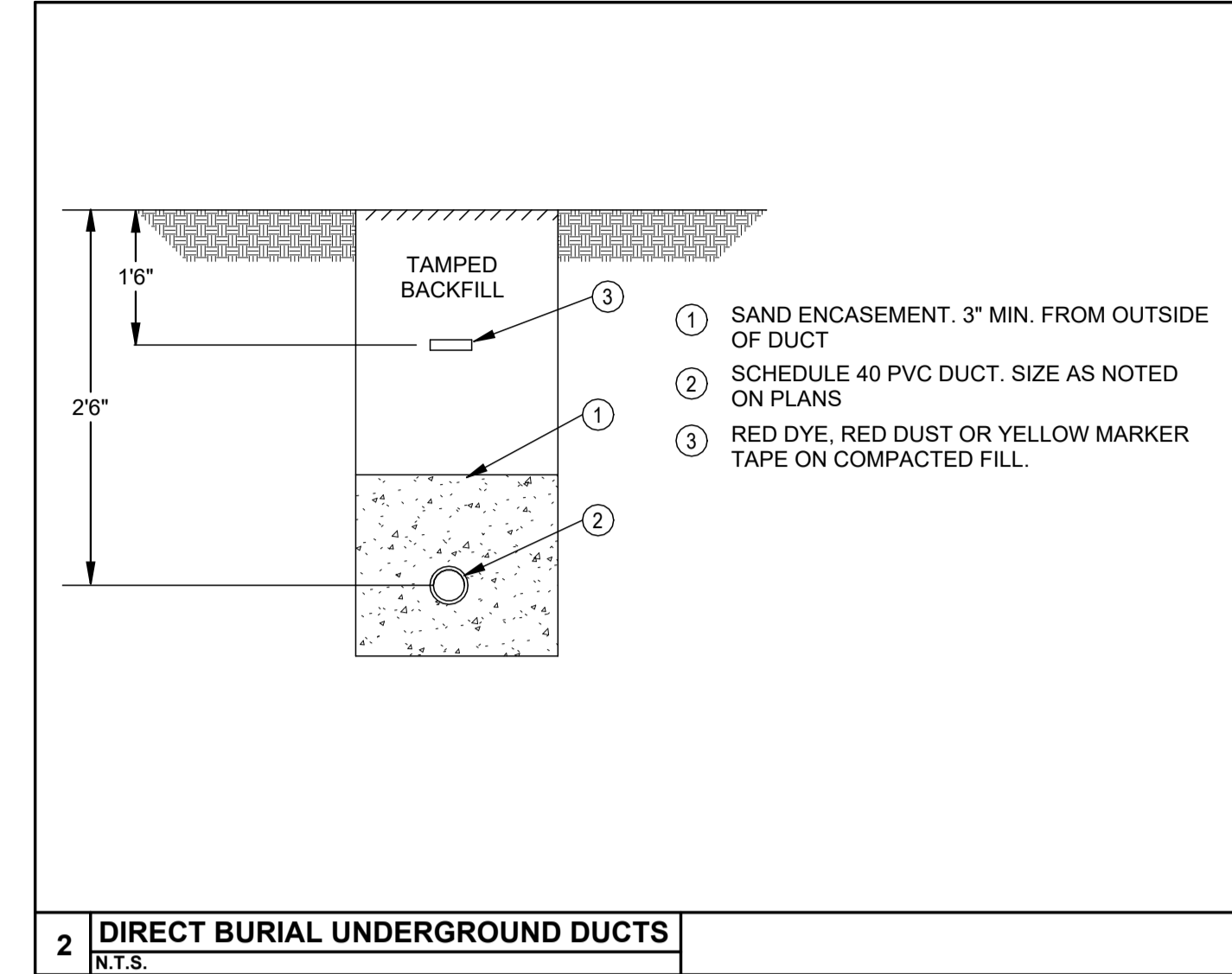
LOCATION: CORR. C102 MOUNTING: Flush
 SUPPLY FROM: <SUPPLY FROM> ENCLOSURE: Type 1
 VOLTAGE: 120/240 Single-1-3 MCB RATING: 100 A

A.I.C RATING 10,000 A
 MAINS TYPE: M.L.O
 MAINS RATING: 1000 A

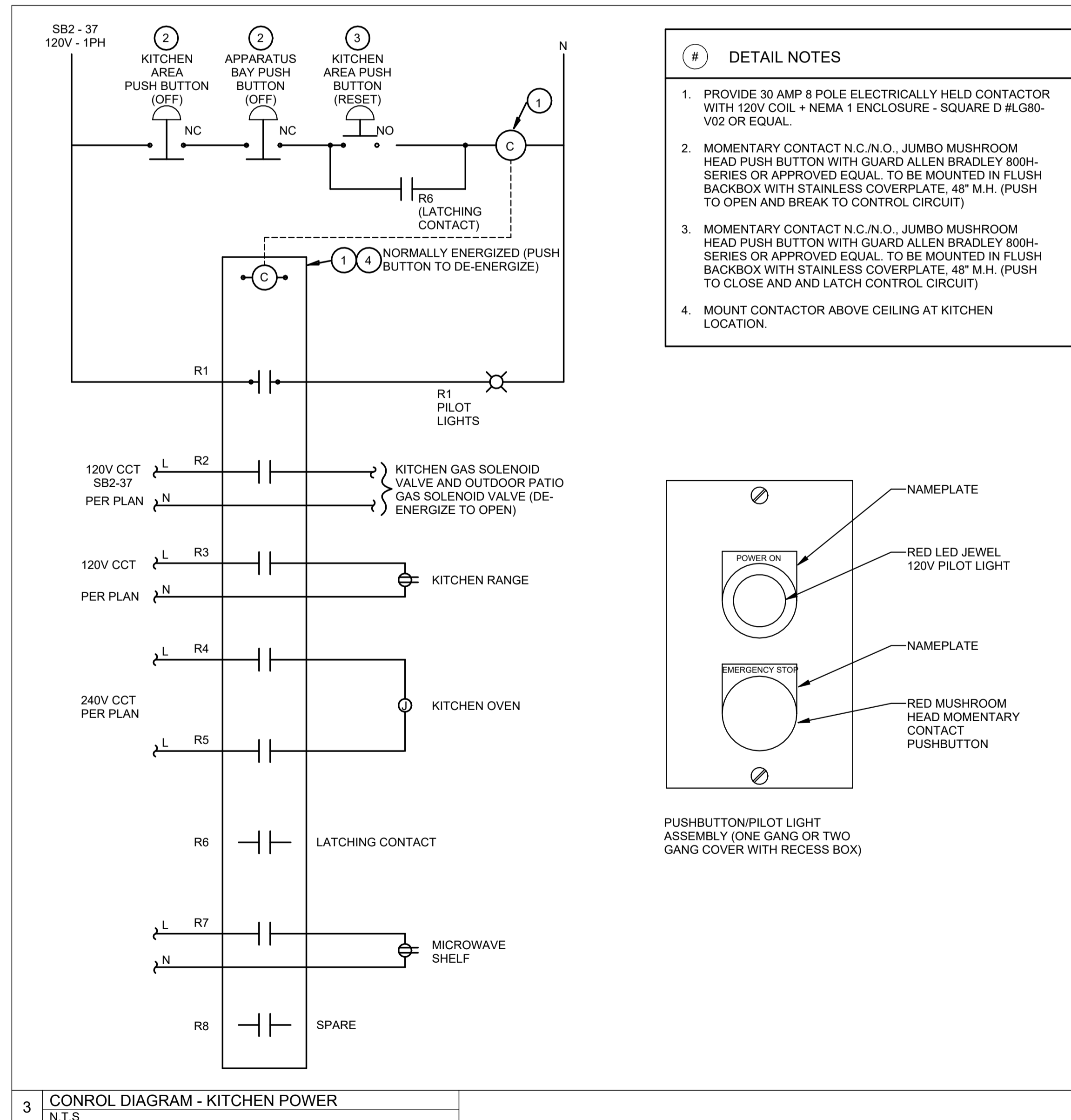
CKT	Description	Trip	Poles	Note	A	B	Note	Poles	Trip	Description	CKT	
1	L-Corridor	20 A	1		512 VA	289 VA		1	20 A	L-Dorm	2	
3	Officer	20 A	1			238 VA	299 VA	1	20 A	L-Dorm/RR	4	
5	Corr./Decon.	20 A	1		177 VA	205 VA		1	20 A	Day Room	6	
7	Receptacles	20 A	1			360 VA	175 VA	1	20 A	L-Mech./I.T.	8	
9	R-Corridor	20 A	1		1080 VA	360 VA		1	20 A	R-Ems Vcm	10	
11	R-Chargers	20 A	1			630 VA	180 VA	1	20 A	R Refrig.	12	
13	R-Dorm	20 A	1	1	922 VA	562 VA		1	1	20 A	R-Captain	14
15	R-Dorm	20 A	1	1		922 VA	720 VA	1	20 A	R-Captain	16	
17	R-Dorm	20 A	1	1	922 VA	0 VA		1	20 A	Spare	18	
19	R-Dorm	20 A	1	1		922 VA	0 VA	1	20 A			



1 TV WALL BOX DETAIL - T2
N.T.S.

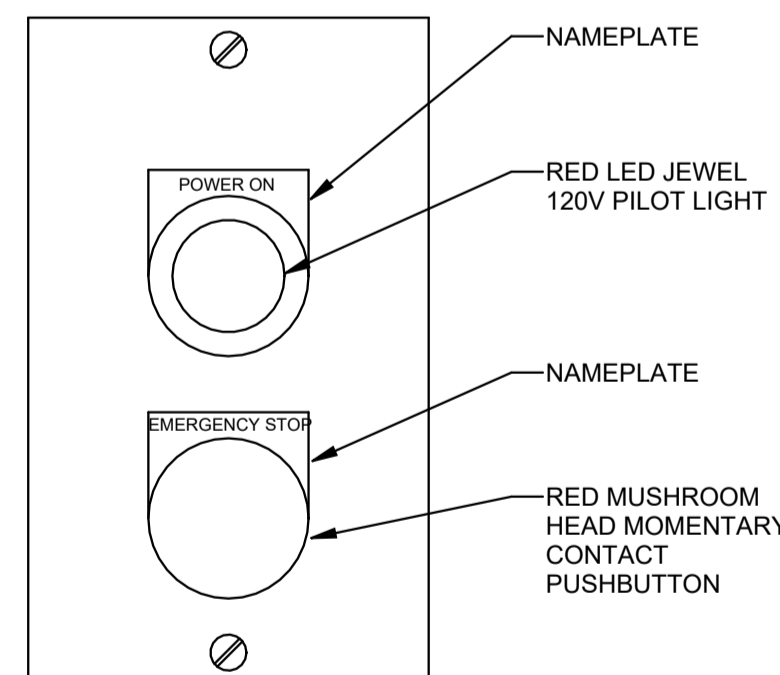


2 DIRECT BURIAL UNDERGROUND DUCTS
N.T.S.

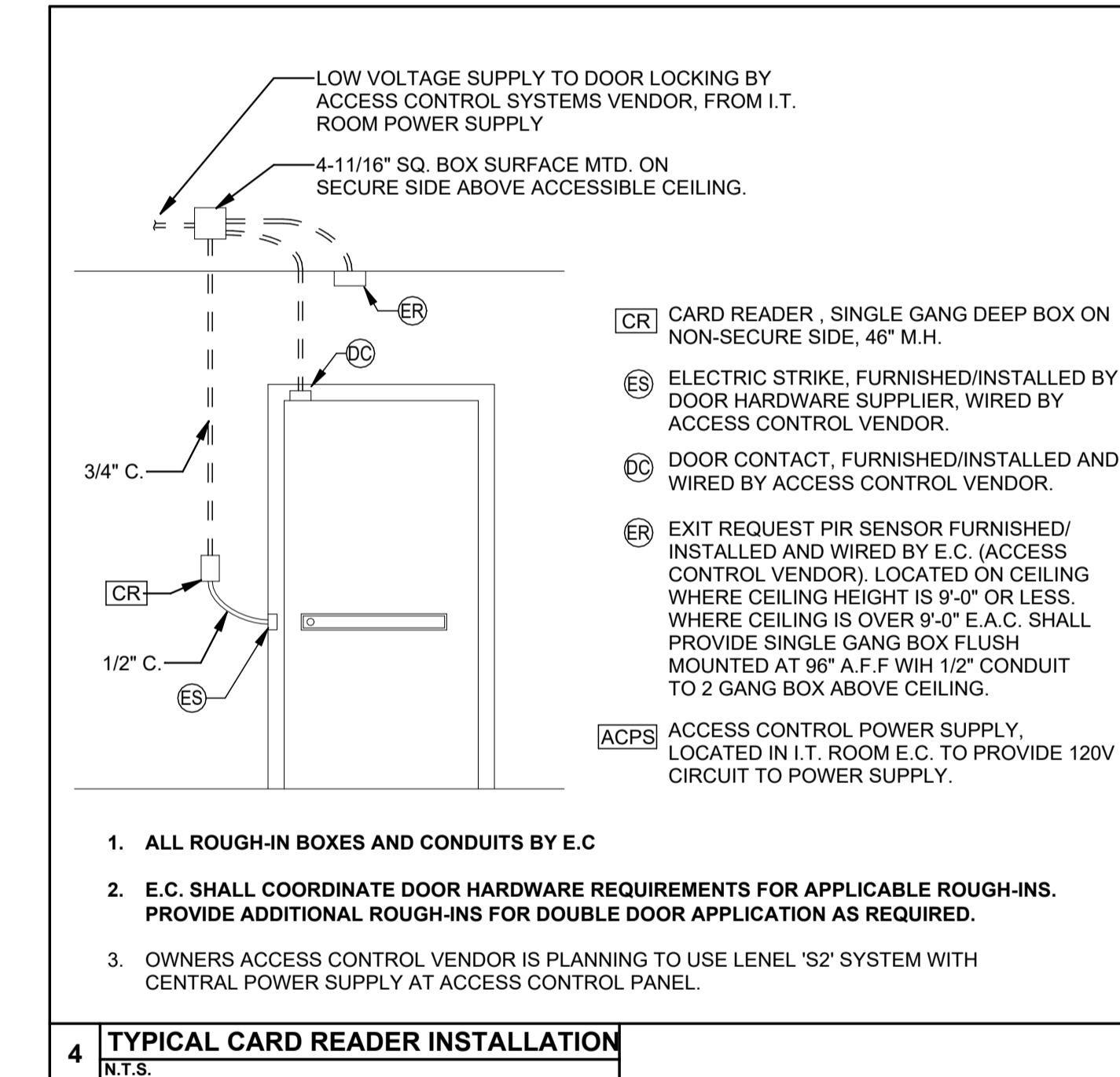


3 CONTROL DIAGRAM - KITCHEN POWER
N.T.S.

- # DETAIL NOTES
- PROVIDE 30 AMP 8 POLE ELECTRICALLY HELD CONTACTOR WITH 120V COIL + NEMA 1 ENCLOSURE - SQUARE D #LG80-V02 OR EQUAL.
 - MOMENTARY CONTACT N.C./N.O., JUMBO MUSHROOM HEAD PUSH BUTTON WITH GUARD ALLEN BRADLEY 800H-SERIES OR APPROVED EQUAL. TO BE MOUNTED IN FLUSH BACKBOX WITH STAINLESS COVERPLATE, 48" M.H. (PUSH TO OPEN AND BREAK TO CONTROL CIRCUIT)
 - MOMENTARY CONTACT N.C./N.O., JUMBO MUSHROOM HEAD PUSH BUTTON WITH GUARD ALLEN BRADLEY 800H-SERIES OR APPROVED EQUAL. TO BE MOUNTED IN FLUSH BACKBOX WITH STAINLESS COVERPLATE, 48" M.H. (PUSH TO CLOSE AND AND LATCH CONTROL CIRCUIT)
 - MOUNT CONTACTOR ABOVE CEILING AT KITCHEN LOCATION.



PUSHBUTTON/PILOT LIGHT ASSEMBLY (ONE GANG OR TWO GANG COVER WITH RECESS BOX)



4 TYPICAL CARD READER INSTALLATION
N.T.S.

NO.	DATE	DESCRIPTION
	12/18/2024	FOR CONSTRUCTION

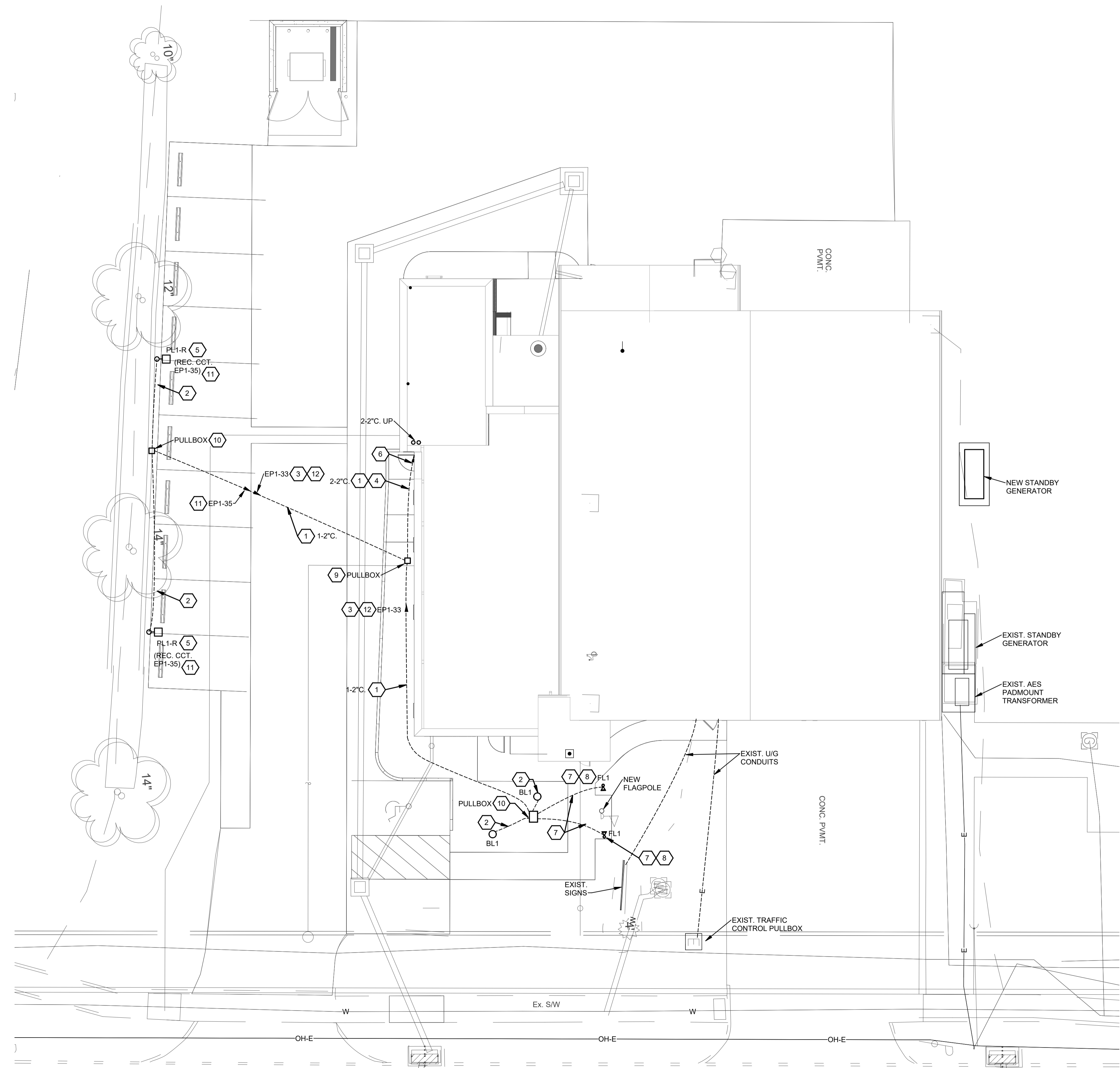
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JOB NO.	4262.00
DRAWN	DAC
CHECKED	MFM

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TITLE
DETAILS

1 | 2 | 3 | 4 | 5 | 6 | 7

A
B
C
D
E
F

- CONSTRUCTION NOTES**
1. DIRECT BURIAL PVC CONDUIT(S). SIZE AS NOTED, REFER TO DETAIL ON SHEET E0.5.
 2. 1" DIRECT BURIED SCHEDULE 40 PVC CONDUIT AND LIGHTING BRANCH CIRCUIT WIRING.
 3. ALL LIGHTING BRANCH CIRCUIT WIRING TO BE #10 AWG SIZE.
 4. 1 CONDUIT TO BE (SPARE) EMPTY WITH PULL STRING.
 5. POLE INCLUDES GFCI RECEPTACLE NEAR BASE; SERVED FROM INDICATED 120V CIRCUIT.
 6. REFER TO FLOOR PLAN FOR CONTINUATION.
 7. 0.75"C. SCH - 40 PVC (POWER) TO FLOODLIGHTS.
 8. COORDINATE EXACT LOCATION OF FLAG POLE LIGHTS WITH FLAG POLE AND LANDSCAPING.
 9. PRECAST COMPOSITE PULLBOX AND COVER 11"x18"x24" DP (2-12" DEEP SECTIONS) WITH HEAVY DUTY COVER IMPRINTED "ELECTRIC" AND TAMPERPROOF SCREWS (2 STACKED) QUAZITE PG1118BA12 BOX AND PC1118HA00 HEAVY DUTY COVER.
 10. PRECAST COMPOSITE PULLBOX AND COVER 12"x12"x12" DP (2-12" DEEP SECTIONS) WITH HEAVY DUTY COVER IMPRINTED "ELECTRIC" AND TAMPERPROOF SCREWS - QUAZITE PC1212BA12 BOX AND PC1212HA00 HEAVY DUTY COVER.
 11. ALL RECEPTACLE BRANCH CIRCUIT WIRING TO BE #10 AWG SIZE.
 12. CIRCUIT EXTERIOR LIGHTS THRU EXTERIOR LIGHTING CONTACTOR LOCATED IN APPARATUS BAY.



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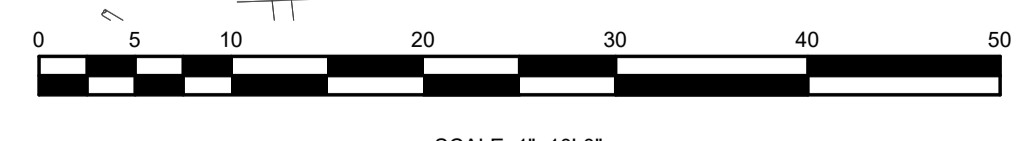
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TITLE **SITE PLAN**

SHEET NO.
E0.6

SITE PLAN
SCALE: 1" = 10'-0"



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CONSTRUCTION NOTES

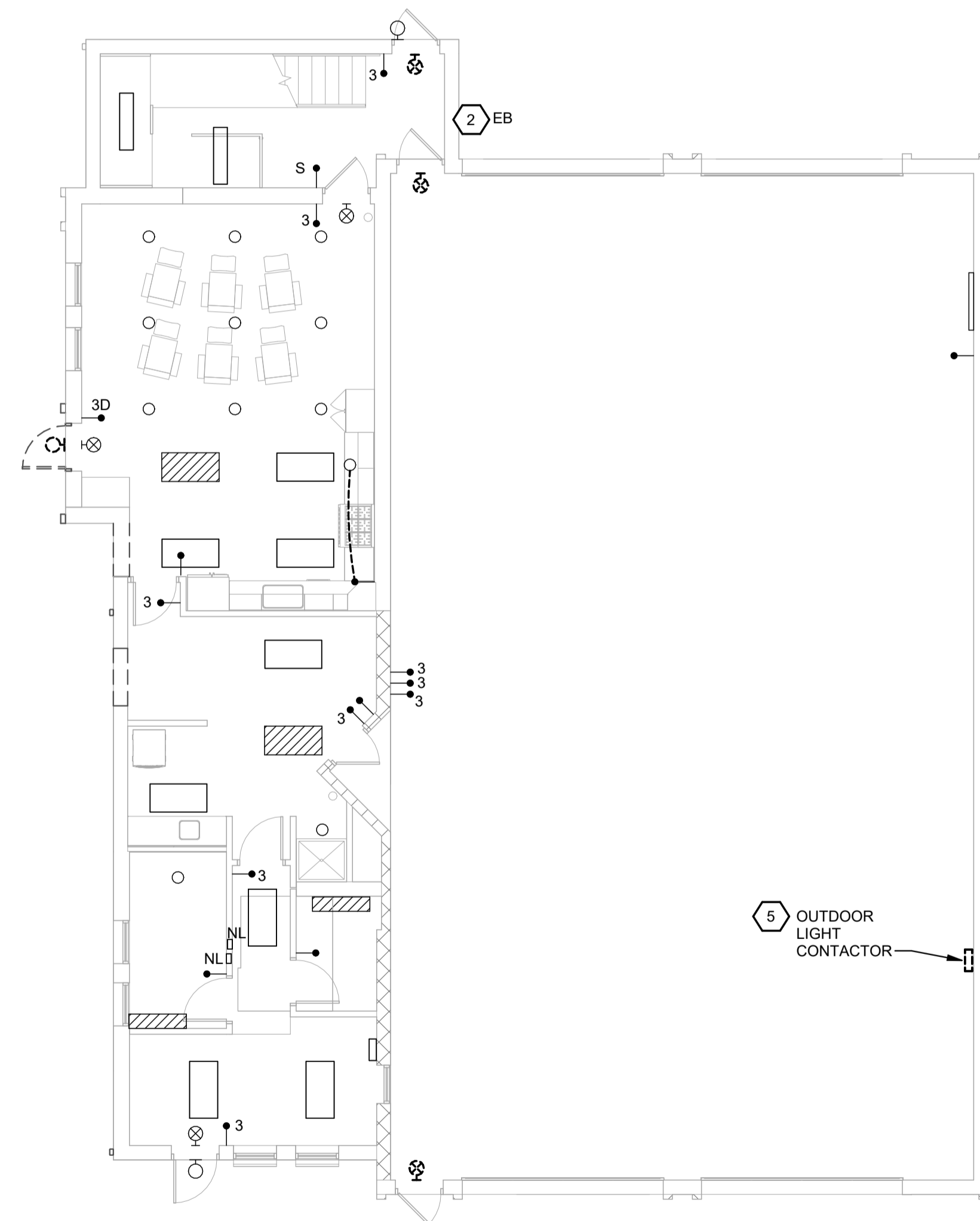
- NOTE: THESE NOTES ARE APPLICABLE TO BOTH PHASE 1 AND PHASE 2 WORK AS SHOWN ON THIS SHEET AND SHEET E2.1.
- NOTE INDICATES EXISTING PANELBOARD SERVING LIGHTING IN THIS AREA (PER EXISTING DRAWINGS; E.C. TO TRACE OUT AND CONFIRM ON SITE PRIOR TO DEMOLITION).
 - FIXTURE INCLUDES INTEGRAL BATTERY.
 - FIXTURE 'DOWNLIGHT' CONTROLLED LOCALLY; FIXTURE 'UPLIGHT' WIRED SEPARATELY AND SUPPLY CIRCUIT TURNED ON BY 'LOCUTION' ALARM ALERTING SYSTEM CONTROL RELAY.
 - EXISTING ATTIC LIGHTS, SWITCH AND SUPPLY CIRCUIT WIRING TO BE RETAINED IN SERVICE.
 - REMOVE 2 CIRCUIT OUTDOOR LIGHT CONTACTOR AND REPLACE PER 'NEW WORK' PLAN AND DETAIL ON SHEET E0.2 - REWIRE EXISTING CIRCUITS TO NEW CONTACTOR.

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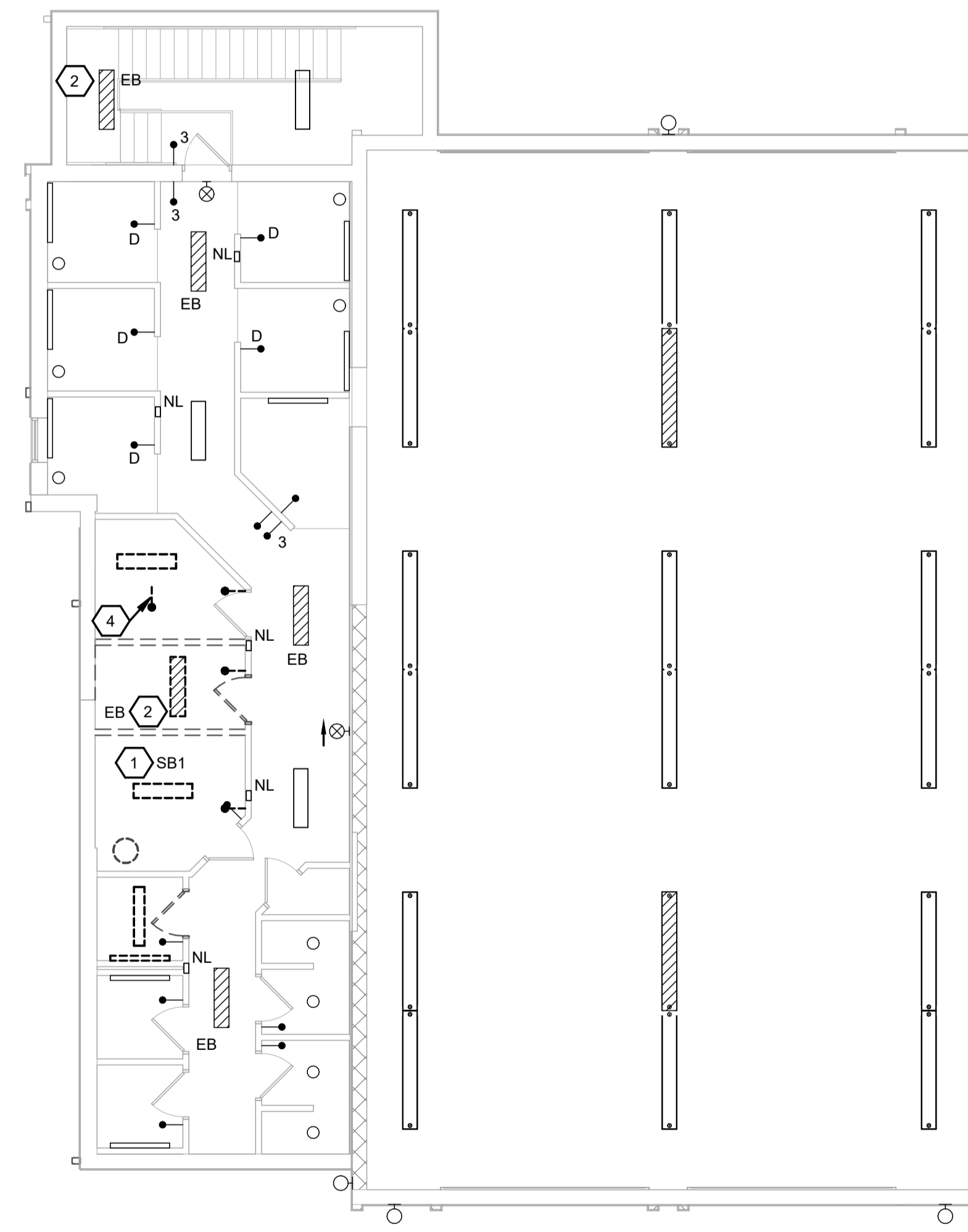
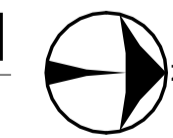
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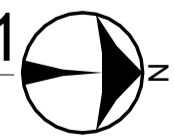
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FIRST FLOOR DEMOLITION PLAN - LIGHTING - PHASE 1
SCALE: 1/8" = 1'-0"



SECOND FLOOR DEMOLITION PLAN - LIGHTING - PHASE 1
SCALE: 1/8" = 1'-0"



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

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**PHASE 1 - LIGHTING
DEMOLITION PLANS**

SHEET NO.

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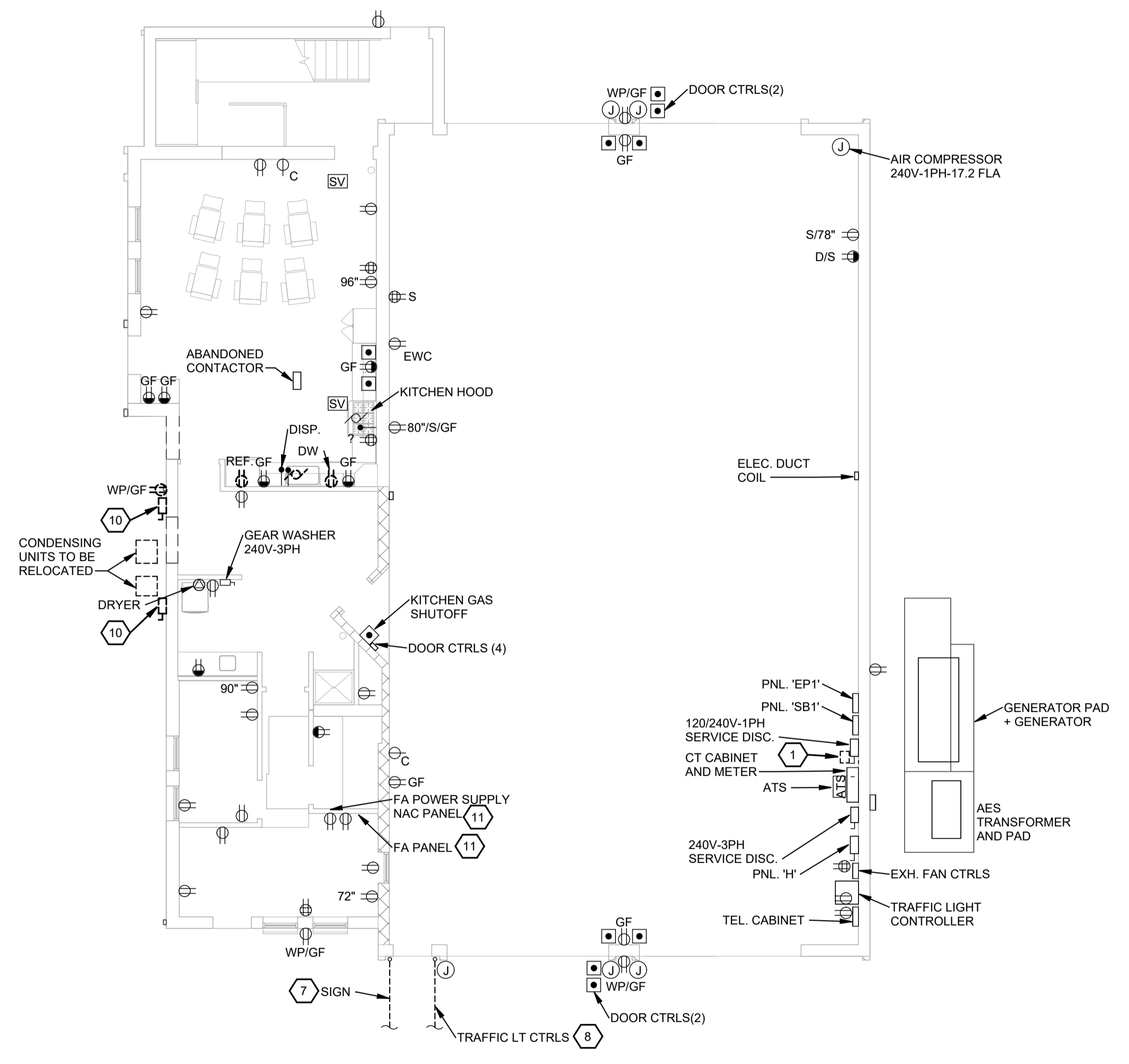
- ### CONSTRUCTION NOTES
- NOTE: THESE NOTES ARE APPLICABLE TO BOTH PHASE 1 AND PHASE 2 WORK AS SHOWN ON THIS SHEET AND SHEET E2.2.
- EXISTING 2-CIRCUIT OUTDOOR LIGHTING CONTACTOR TO BE REPLACED AND EXISTING CIRCUITS REWIRED TO NEW CONTACTOR - REFER TO DETAIL ON SHEET E0.2.
 - DISCONNECT AND REMOVE CONTROL WIRING TO GAS SOLENOID VALVE.
 - REMOVE CONTACTOR HOUSING AND GAS SOLENOID VALVE POWER AND CONTROL WIRING.
 - KITCHEN GAS 'SHUTOFF' SOLENOID VALVE CONTROL STATION AND WIRING TO BE REMOVED - RETAIN OUTLET BOX FOR REUSE.
 - KITCHEN GAS 'ON' SOLENOID VALVE CONTROL STATION AND WIRING TO BE REMOVED - RETAIN OUTLET BOX FOR REUSE.
 - REMOVE FEEDER BACK TO SOURCE 240V-3PH PANEL IN APPARATUS BAY.
 - UNDERGROUND CONDUIT AND WIRING TO SIGN TO REMAIN.
 - UNDERGROUND CONDUIT AND WIRING TO TRAFFIC LIGHT CONTROL FLUSH GRADE PULLBOX TO REMAIN.
 - 120V FAN CONTROLLED BY LIGHT SWITCH.
 - REMOVE DISCONNECT SWITCH AND 240V-1PH CONNECTION TO CONDENSING UNIT; EXISTING SUPPLY FEEDER TO BE MODIFIED AND EXTENDED TO LOCATION OF TEMPORARILY RELOCATED CONDENSING UNIT ON GRADE TO WEST OF AREA OF NEW CONSTRUCTION AND RECONNECTED TO CONDENSING UNIT AT TEMPORARY LOCATION. RELOCATE EXISTING DISCONNECT SWITCHES TO TEMPORARY LOCATION.
 - REMOVE FIRE ALARM PANEL AND FIRE ALARM N.A.C. POWER SUPPLY AND RELOCATE TO SECOND FLOOR NEW I.T. ROOM.
 - REMOVE ATS AND PROVIDE PULLBOX IN SAME LOCATION TO RECONNECT EXISTING PANEL 'SB1' FEEDERS IN LOCATION OF ATS.
 - KITCHEN HOOD AND SUPPLY CIRCUIT TO REMAIN.
 - MAINTAIN EXISTING KITCHEN HOOD SUPPLY BRANCH CIRCUIT.

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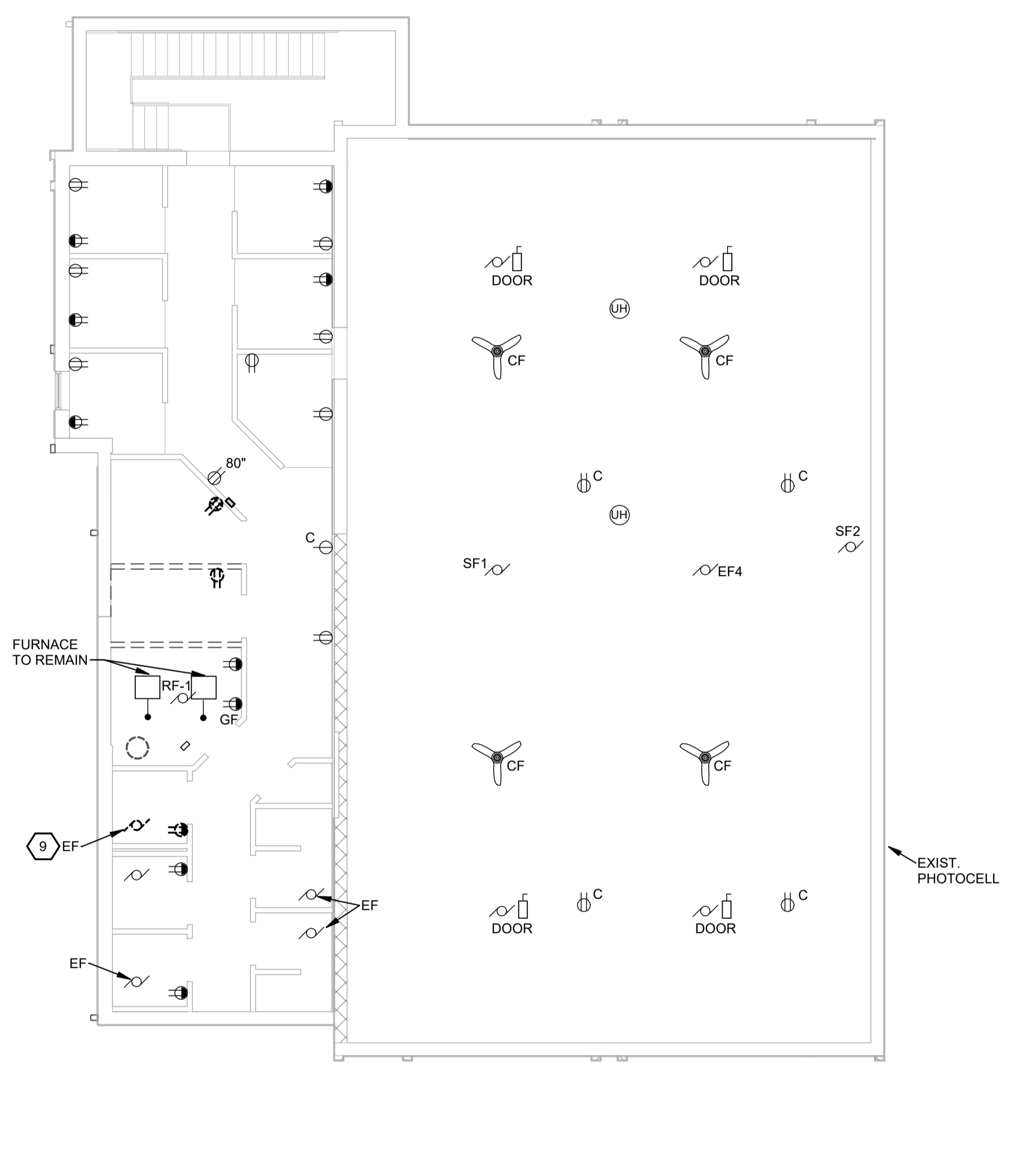
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FIRST FLOOR DEMOLITION PLAN - POWER - PHASE 1
SCALE: 1/8" = 1'-0"



SECOND FLOOR DEMOLITION PLAN - POWER - PHASE 1
SCALE: 1/8" = 1'-0"

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TITLE
**PHASE 1 - POWER
DEMOLITION PLANS**

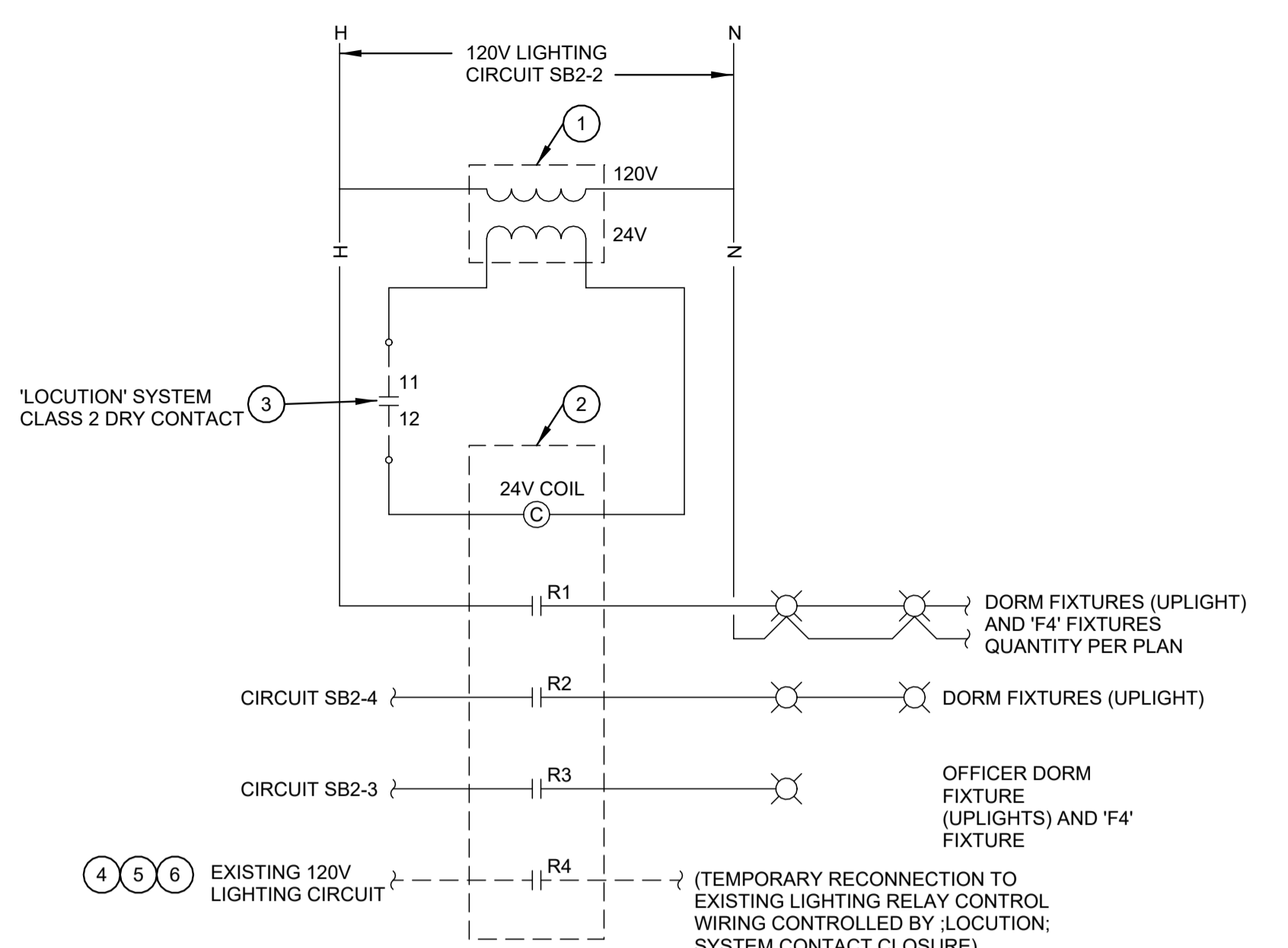
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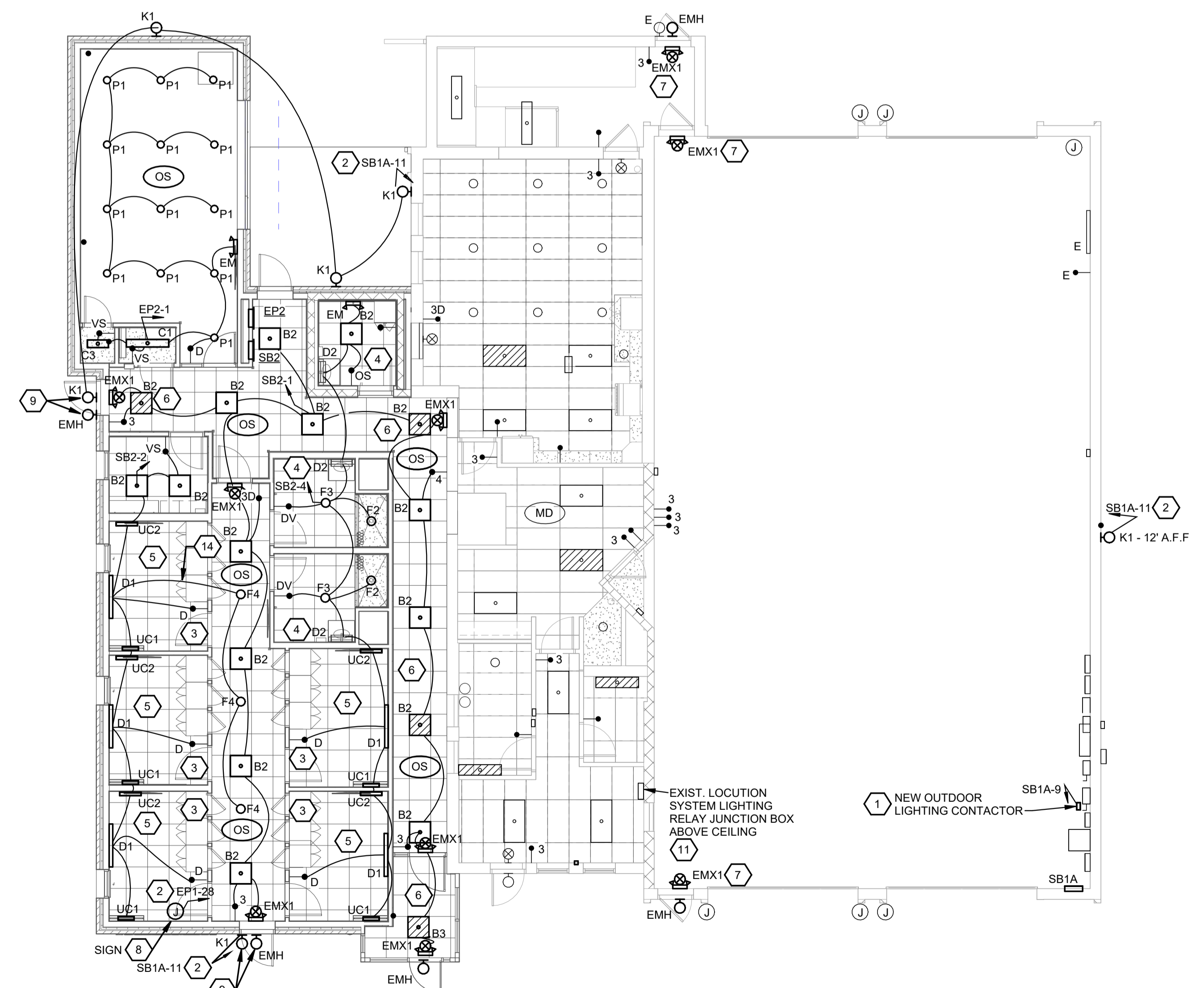
'LOCUTION' ALERTING SYSTEM LIGHTING INTERFACE
SCALE: N.T.S.

DETAIL NOTES

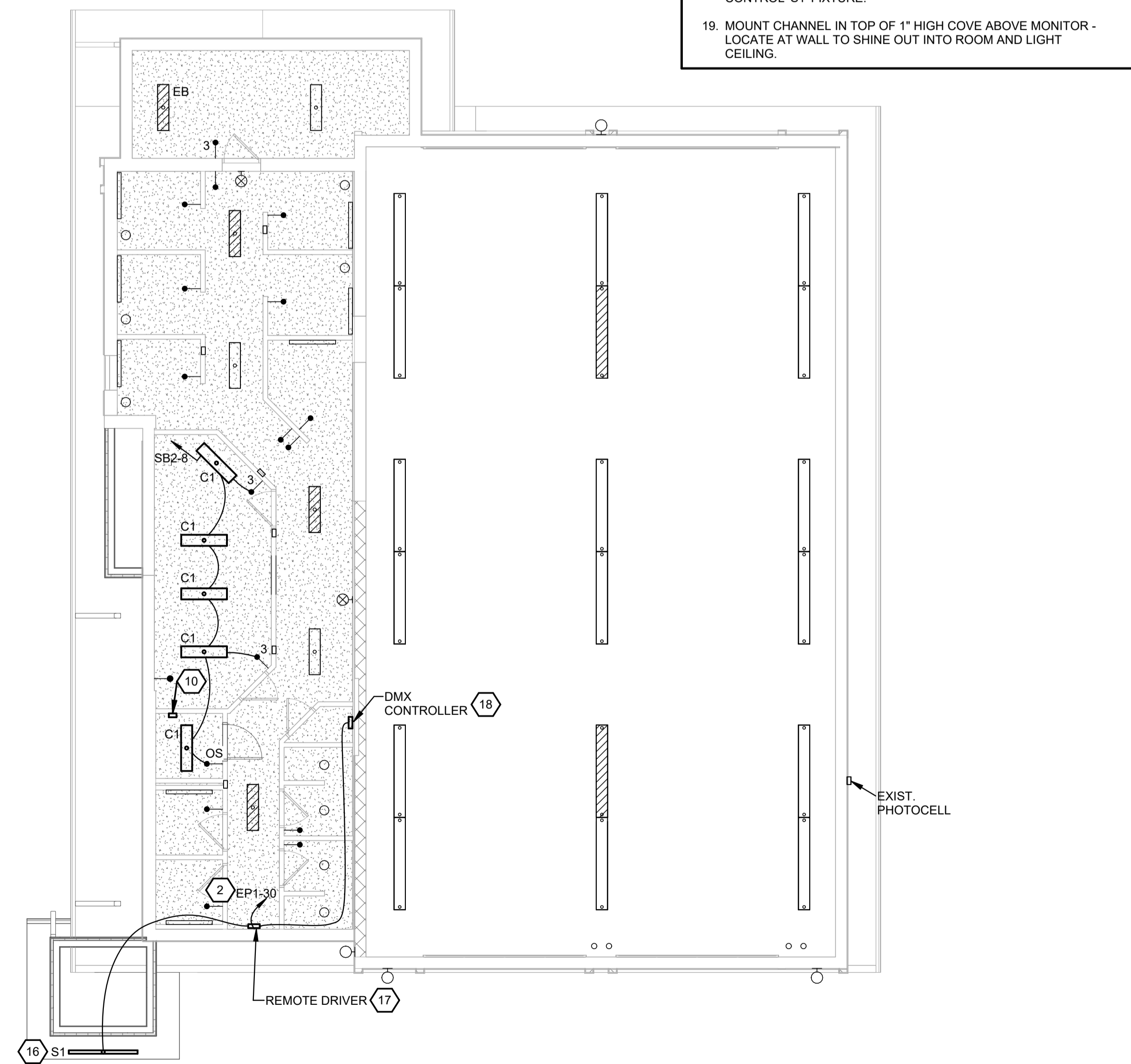
- 120V-24VAC CLASS 2 TRANSFORMER - 40 VA (EDWARDS SIGNALING #599 OR EQUAL; WITH #593 MOUNTING PLATE) - MOUNT TO SURFACE BOX ON WALL IN I.T. ROOM.
- ELECTRICALLY HELD 4-POLE LIGHTING CONTACTOR WITH SURFACE ENCLOSURE AND 24VAC COIL - SQUARE D 'L' SERIES #LG40 WITH #V01 24VAC COIL - MOUNT TO WALL IN I.T. ROOM.
- WIRE THROUGH LIGHTING CONTROL CONTACTS 11 + 12 (90 SECOND ON) IN TERMINAL STRIP IN 'LOCUTION' SYSTEM PANEL.
- WHEN NEW LIGHT CONTROL RELAY IS INSTALLED BY E.C. THE EXISTING CONTROL WIRING (TO TERMINALS 11 - 12) CONTROLLING EXISTING RELAY (ABOVE CEILING AT EXISTING LOCUTION PANEL LOCATION) FOR CONTROLLING EXISTING DORM LIGHTS IS TO BE DISCONNECTED FROM 'LOCUTION' PANEL TERMINALS BY E.C. TO PERMIT REUSE OF THIS OUTPUT CONTACT TO CONTROL NEW LIGHT RELAY. E.C. TO TEMPORARILY WIRE EXISTING LIGHT RELAY CONTROL CIRCUIT THROUGH CONTACT 'R4' ON NEW LIGHT CONTACTOR.
- E.C. TO DISCONNECT EXISTING LIGHTING RELAY (ABOVE CEILING AT EXISTING LOCUTION PANEL LOCATION) CONTROL WIRING FROM TERMINALS 11 - 12 IN 'LOCUTION' PANEL AND RECONNECT TO NEW LIGHT CONTACTOR TERMINAL 'R4' UNTIL EXISTING DORM LIGHTING IS REMOVED; AND REMOVE CONTROL WIRING AFTER EXISTING DORM SLEEPING ROOM LIGHTING IS REMOVED.
- MAINTAIN EXISTING LIGHT CONTROL RELAY (ON FIRST FLOOR) IN OPERATION UNTIL EXISTING ROOMS ARE DEMOLISHED IN PHASE 2 OF PROJECT. REMOVE RELAY AND CONTROL WIRING AFTER DORM DEMOLITION.

CONSTRUCTION NOTES

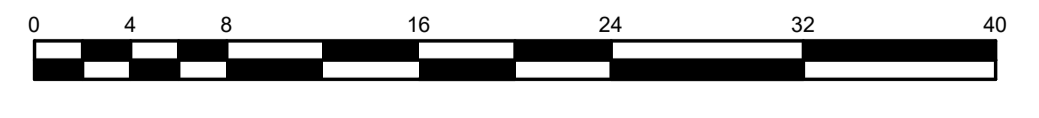
- NOTE: THESE NOTES ARE APPLICABLE TO BOTH PHASE 1 AND PHASE 2 WORK AS SHOWN ON THIS SHEET AND SHEET E2.4.
- REFER TO DETAIL ON SHEET E0.2.
 - CIRCUIT TO EXTERIOR LIGHTING CONTACTOR, LOCATED IN APPARATUS BAY.
 - TYPE 'UC1' AND 'UC2' FIXTURES SWITCHED VIA INTEGRAL ROCKER SWITCH ONLY, NOT CONTROLLED VIA DIMMER/SWITCH.
 - 'D2' FIXTURE NON-DIM, WIRE FOR ON-OFF CONTROL ONLY VIA OCCUPANCY SENSOR.
 - 'D1' FIXTURE 'DOWNLIGHT' CONTROLLED BY DIMMER; UPLIGHT CONTROLLED BY RELAY IN 'LOCUTION' ALARM ALERTING SYSTEM PER DETAIL ON THIS SHEET.
 - 'NIGHT LIGHT' WIRED TO UNSWITCHED CIRCUIT (TYP.).
 - CONNECT NEW EXITEM LIGHT FIXTURE TO EXISTING UNSWITCHED SUPPLY CIRCUIT SERVING EXISTING REMOVED EXIT LIGHT IN THIS LOCATION.
 - CONNECT TO INTERNALLY ILLUMINATED SIGN.
 - MOUNT 'K1' FIXTURE 12" AFF AND MOUNT 'EMH' FIXTURE 9" AFF; BOTH CENTERED OVER DOOR.
 - DORM ROOM LIGHT CONTROL CONTACTOR AND TRANSFORMER - REFER TO DETAIL ON THIS SHEET.
 - REFER TO DETAIL ON THIS SHEET.
 - OCCUPANCY SENSOR WITH 120V RATED DRY CONTACT RELAY RATED FOR 15A (FOR CONTROL OF RESTROOM EXHAUST FAN).
 - MOUNT TYPE 'UC' FIXTURE REMOTE DRIVER ABOVE ACCESSIBLE CEILING.
 - CONNECT TO 'D1' FIXTURE 'UPLIGHT' CCT PEX DETAIL ON SHEET E1.4.
 - MOUNT TYPE 'L1' FIXTURE REMOTE DRIVER ABOVE ACCESSIBLE CEILING.
 - MOUNT TO BOTTOM OF SOFFIT NEAR FRONT EDGE. (AWAY FROM WALL FACE)
 - MOUNT REMOTE DRIVER IN ATTIC AND WIRE TO 'S1' FIXTURE AND DMX CONTROLLER PER MANUFACTURER DIRECTIONS.
 - INSTALL DMX CONTROLLER RECESSED IN WALL AND WIRE TO CONTROL 'S1' FIXTURE.
 - MOUNT CHANNEL IN TOP OF 1" HIGH COVE ABOVE MONITOR - LOCATE AT WALL TO SHINE OUT INTO ROOM AND LIGHT CEILING.



FIRST FLOOR NEW WORK PLAN - LIGHTING - PHASE 1
SCALE: 1/8" = 1'-0"



SECOND FLOOR NEW WORK PLAN - LIGHTING - PHASE 1
SCALE: 1/8" = 1'-0"



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TITLE PHASE 1 - LIGHTING NEW WORK PLANS	
SHEET NO.	

E1.4

CONSTRUCTION NOTES CONT'D

- 44. PROVIDE TOGGLE SWITCH AND WIRE LOAD SIDE TO 2-120V STORM SHELTER DAMPERS (DAMPERS BY H.C. POWERED CLOSED; OPEN ON POWER LOSS).
- 45. CONNECT TO LOCAL EXISTING RECEPTACLE CIRCUIT SERVING NEARBY REMOVED RECEPTACLES.
- 46. WIRE FAN SUPPLY CIRCUIT THROUGH OCCUPANCY SENSOR CONTROL RELAY FOR FAN CONTROL - REFER TO SHEET E1.4.
- 47. INSTALL LINE VOLTAGE THERMOSTAT FURNISHED BY H.C. AND WIRE FAN SUPPLY CIRCUIT THROUGH THERMOSTAT FOR FAN CONTROL.
- 48. INSTALL ROOM PRESSURE MONITOR POWER SUPPLY TRANSFORMER (FURNISHED BY H.C.) ABOVE LAY-IN CEILING AND MAKE 120V SUPPLY CIRCUIT CONNECTION AS COORDINATED WITH H.C.
- 49. NEMA 14-30R; DRYER. (3-#10; 1-#10 GRD.; 0.75°C.).
- 50. MAKE 120V CONNECTION TO BOTTLE FILLER; COORDINATE WITH P.C.
- 51. EXISTING KITCHEN HOOD TO BE RETAINED AND REINSTALLED. EC TO DISCONNECT FOR RENOVATION AND RECONNECT TO EXISTING SUPPLY CIRCUIT.
- 52. WIRE BRANCH SELECTOR SUPPLY WIRING FROM OUTPUT TERMINALS IN CONDENSING UNIT 'CD2'.
- 53. WIRE FAN COIL UNIT SUPPLY WIRING FROM OUTPUT TERMINALS IN BRANCH SELECTOR IN THIS ROOM.

CONSTRUCTION NOTES CONT'D

- 31. 16"x16"x8" DP NEMA 4X STAINLESS STEEL BOX WITH HINGED COVER AND CENTER POWER/CONTROL DIVIDER - MOUNT WITH BOTTOM 12" AFF.
- 32. GENERATOR 'EPO' SWITCH - MOUNT SURFACE BOX TO WALL 48" AFF AND WIRE TO GENERATOR - EXTEND 1-0.75°C. TO GENERATOR; SCHEDULE 80 DIRECT BURIED PVC TO TRANSITION TO RIGID GALVANIZED CONDUIT ABOVE GRADE.
- 33. MAKE 120V CONNECTION TO DISHWASHER - COORDINATE CONNECTION TYPE AND LOCATION WITH MANUFACTURER INSTALLATION DIRECTIONS.
- 34. WALL OVEN 240V-20A. PROVIDE DIRECT CONNECTION TO OVEN PER MANUFACTURER INSTALLATION INSTRUCTIONS - (3-#10; 1-#10 GRD.; 0.75°C.).
- 35. PROVIDE WALL SWITCH AND WIRE TO DISPOSER GFCI RECEPTACLE BELOW SINK INSIDE CABINET - COORDINATE LOCATION WITH MANUFACTURER INSTALLATION DIRECTIONS PROVIDE 6' LONG -122 + GRD. 'SD' CORD AND 5-20R PLUG ON DISPOSER.
- 36. CONNECT TO EXISTING RECEPTACLE BRANCH CIRCUIT.
- 37. PAINT EXPOSED CONDUIT AND CONDUIT FITTINGS PRIOR TO INSTALLATION TO MATCH EXISTING BRICK COLOR.
- 38. CONDUITS FROM ATS AND PULLBOX THAT ENTER BUILDING SHALL RISE UP VERTICALLY ON EXTERIOR WALL TO ABOVE EXISTING LOCKERS AND DUCTWORK AND ENTER BUILDING VIA L-B FITTINGS ON EXTERIOR (ALL L-B FITTINGS AT SAME ELEVATION).
- 39. RECEPTACLE FOR MICROWAVE OVEN IN MICROWAVE SHELF 60" AFF - COORDINATE WITH MILLWORK DRAWINGS PRIOR TO ROUGH-IN.
- 40. COUNTERTOP GAS RANGE - COORDINATE 120V FINAL CONNECTION TYPE AND LOCATION WITH RANGE INSTALLATION DIRECTIONS PRIOR TO ROUGH-IN.
- 41. WIRE THROUGH KITCHEN GAS/ELECTRIC SHUTDOWN CONTACTOR - REFER TO DETAIL ON SHEET E0.5.
- 42. REUSE/MODIFY OR REPLACE/ENLARGE AS REQUIRED EXISTING GAS SHUTOFF STATION RECESSED OUTLET BOX OPENING IN MASONRY BLOCK WALL.
- 43. MAKE 120V CONNECTION TO HW RECIR. PUMP FROM LOAD SIDE OF TOGGLE SWITCH.

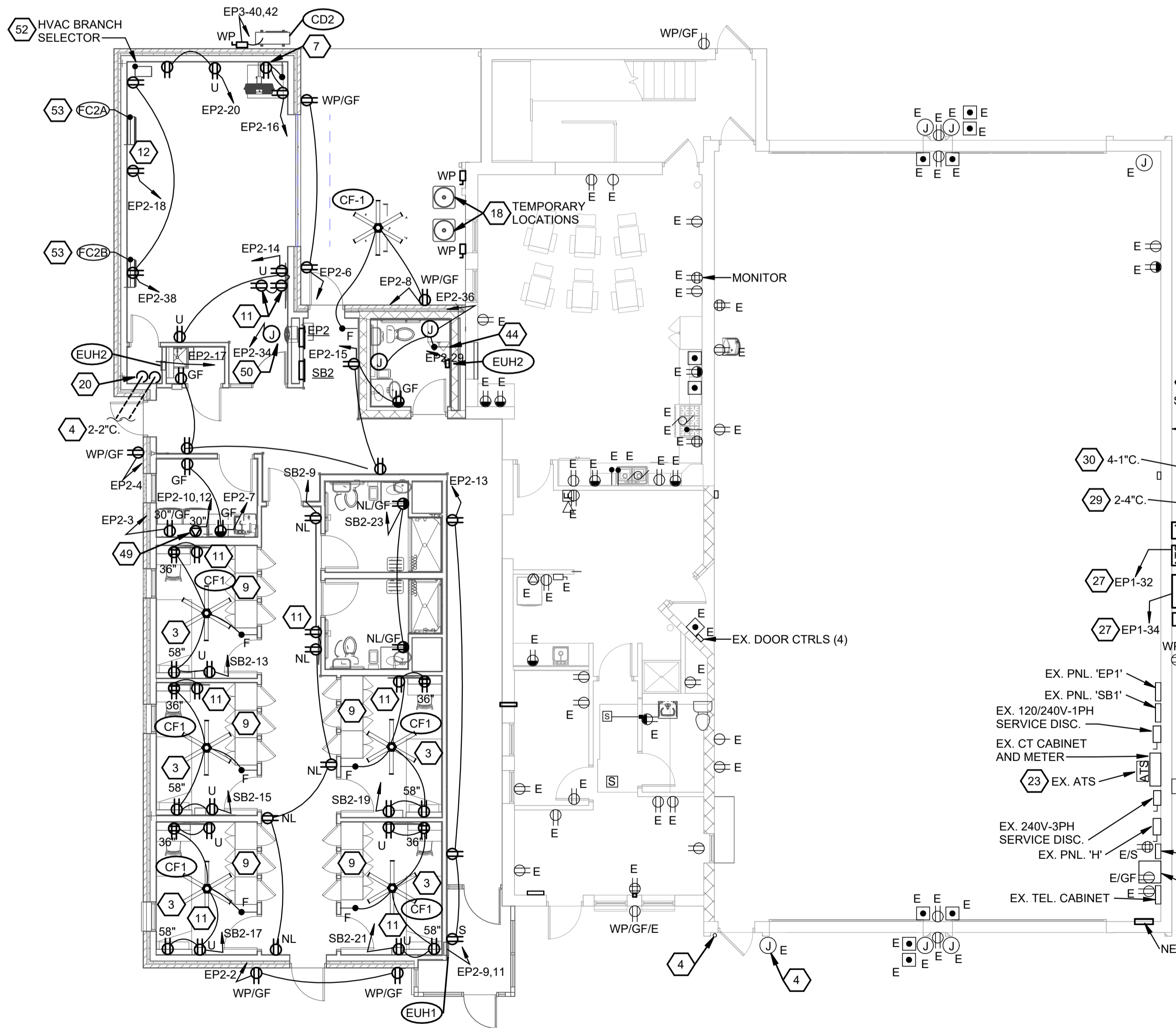
CONSTRUCTION NOTES CONT'D

- 17. EXISTING FURNACES TO REMAIN - REFEED WITH NEW 120V SUPPLY CCTS.
- 18. TEMPORARY LOCATION OF EXISTING CONDENSING UNITS. CONNECT TO AND EXTEND EXISTING 240V FEEDERS TO THIS LOCATION AND RECONNECT; RELOCATE EXISTING CONDENSING UNIT DISCONNECT SWITCHES.
- 19. FINAL LOCATION OF RELOCATED EXISTING CONDENSING UNITS (ON ROOF) - CONNECT TO AND EXTEND EXISTING 240V-1PH FEEDER AND CONNECT TO NEW DISCONNECT SWITCH AND CONDENSING UNIT.
- 20. 2-2°C. UP WALL TO ABOVE CEILING (PVC TO TRANSITION TO EMT ABOVE FLOOR); TERMINATE 1 CONDUIT IN 6"x6" JUNCTION BOX FOR SITE LIGHTING CIRCUITRY; ONE CONDUIT SPARE.
- 21. ACCESS CONTROL SYSTEM BY OWNER VENDOR; E.C. TO MAKE 120V CONNECTION TO CONTROL PANEL/POWER SUPPLY PANEL AS COORDINATED WITH VENDOR.
- 22. EXISTING LOCATION ALERTING SYSTEM PANEL RELOCATED BY OWNER VENDOR (P+R COMMUNICATIONS) - PANEL IS CORD AND PLUG CONNECTED.
- 23. EXISTING 30 KW OUTDOOR GENERATOR AND TRANSFORMER SWITCH TO REMAIN IN PHASE 1 AND ATS TO BE REMOVED IN PHASE 2 AFTER NEW GENERATOR IS IN SERVICE - E.C. TO TURN ATS OVER TO OWNER AND ABANDON GENERATOR IN PLACE.
- 24. E.C. TO INSTALL TO WALL.
- 25. PAD PER GENERATOR SPECIFICATION; PAD DIMENSIONS TO EXTEND MIN. 12" PAST ENCLOSURE ON EACH SIDE OF GENERATOR.
- 26. INSTALL WITH RECESSED BACKBOX AND WIRE TO GENERATOR AND ATS PER MANUFACTURER WIRING DIAGRAMS.
- 27. MAKE 120V CONNECTION TO THERMOSTATICALLY CONTROLLED STRIP HEATER.
- 28. CONNECT 120V CIRCUITS TO GENERATOR BLOCK HEATER, BATTERY CHARGER, CONTROLS, ETC. PER MANUFACTURER INSTRUCTIONS.
- 29. SCH. 80 DIRECT BURIED PVC CONDUITS (1-FEEDER; 1 SPARE).
- 30. SCH. 80 DIRECT BURIED PVC CONDUITS (2-POWERS; 2-CONTROL(S)); TERMINATE 2-1" INTO EACH COMPARTMENT IN PULLBOX.

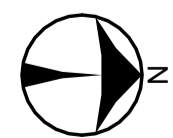
CONSTRUCTION NOTES

- NOTE: THESE NOTES ARE APPLICABLE TO BOTH PHASE 1 AND PHASE 2 WORK AS SHOWN ON THIS SHEET AND E2.5.
- 1. RELOCATED MAIN FIRE ALARM PANEL.
 - 2. FIRE ALARM AV NAC POWER SUPPLY CABINET.
 - 3. PROVIDE AFCI CIRCUIT BREAKER FOR DORM ROOM CIRCUIT.
 - 4. REFER TO SITE PLAN FOR CONTINUATION.
 - 5. PROVIDE PLUGSTRIP 44" A.F.F. ABOVE WORK COUNTER, BACKSPASH - LENGTH PER PLAN WITH NEMA 5-15R SINGLE RECEPTACLES SPACED 6" ON CENTER. WIRE MOLD LEGRAND S20GB06 SERIES; STAINLESS STEEL OR EQUAL.
 - 6. COORDINATE RECEPTACLE EXACT MOUNTING LOCATION INSIDE BASE CABINET/AV EQUIPMENT LOCATION.
 - 7. SWITCHED RECEPTACLE AT 72" M.H. WIRED FROM LOAD SIDE OF LOCAL SWITCH; FOR CONNECTION OF WALL MOUNTED OSCILLATING FAN.
 - 8. PROVIDE CONTINUOUS 3/4" x 4' x 8' HIGH PLYWOOD BACKBOARD (FIRE RATED) MOUNTED ON WEST, EAST, AND SOUTH WALLS OF I.T. ROOM. PAINT LIGHT GRAY EPOXY. SURFACE MOUNT RECEPTACLES ON BACKBOARDS. COORDINATE LOCATIONS WITH DATA RACK AND STATION ALERTING/ACCESS CONTROL/SECURITY EQUIPMENT.
 - 9. COORDINATE MOUNTING HEIGHTS/LOCATIONS OF RECEPTACLES IN DORM ROOMS WITH SHELVING AND CASEWORK. CENTER CEILING FAN IN CEILING TILE IN ROOM.
 - 10. REFER TO 1/4" SCALE PLAN ON THIS SHEET.
 - 11. LOCATE RECEPTACLE ADJACENT TO TV OUTLET BOX AND AT SAME HEIGHT.
 - 12. DEDICATED 20A-120V CIRCUIT FOR TREADMILL.
 - 13. MOUNT KITCHEN GAS SHUTOFF CONTACTOR IN CLEAR LOCATION ABOVE CEILING AND WIRE TO SOLENOID VALVES AND ACCESSORIES. REFER TO DETAIL ON SHEET E0.5.
 - 14. KITCHEN GAS 'SHUTOFF' PUSHBUTTON STATION - REFER TO DETAIL ON SHEET E0.5; 46" AFF.
 - 15. KITCHEN GAS 'ON' PUSHBUTTON STATION - REFER TO DETAIL ON SHEET E0.5; 46" AFF.
 - 16. EXTRACTOR - 120V-12 MOC. PROVIDE 30A/2P + SN FUSIBLE DISCONNECT SWITCH - USE ONE POLE AND FUSE AT 12 AMPS PER MANUFACTURER FUSE SIZE INSTRUCTIONS.

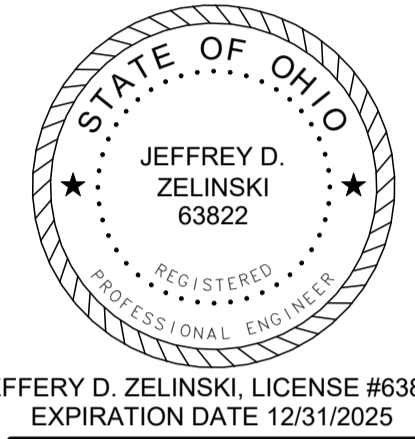
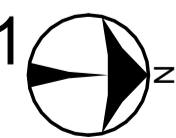
ENLARGED I.T. ROOM PLAN
SCALE: 1/4" = 1'-0"



FIRST FLOOR NEW WORK PLAN - POWER - PHASE 1
SCALE: 1/8" = 1'-0"



SECOND FLOOR NEW WORK PLAN - POWER - PHASE 1
SCALE: 1/8" = 1'-0"



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PHASE 1 - POWER NEW
WORK PLANS

GENERAL NOTES: ALERTING SYSTEM WORK

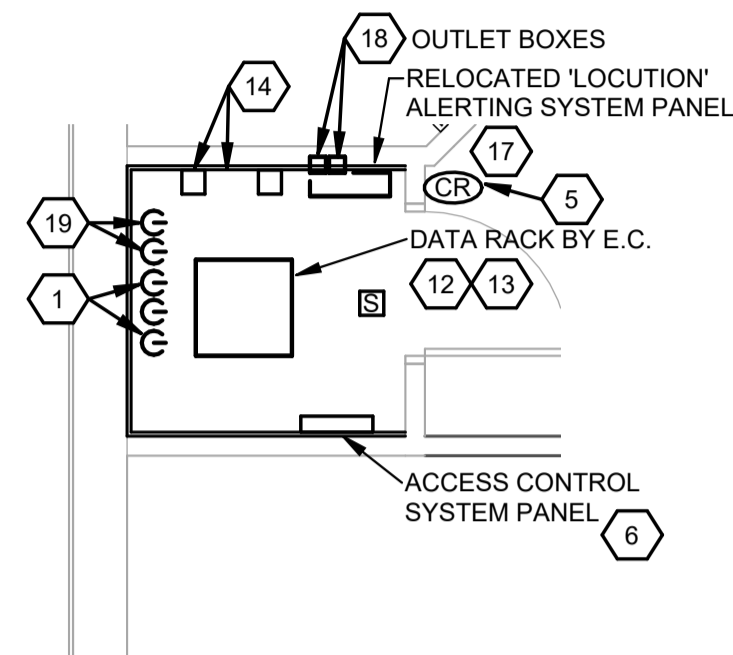
- A. 'LOCUTION' ALERTING SYSTEM ROUGH-IN BOXES AND CONDUITS AS SHOWN ON DRAWINGS ARE TO BE PROVIDED BY E.C.
- B. 'LOCUTION' ALERTING SYSTEM NEW DEVICES, CONTROL PANEL RELOCATION, AND ALL DEVICE INSTALLATION AND WIRING TO BE BY OWNER VENDOR (P+R COMMUNICATIONS).
- C. REMOVAL OF EXISTING 'LOCUTION' ALERTING SYSTEM DEVICES IN AREAS OF RENOVATION ARE BY E.C. OR OWNER VENDOR AS SPECIFICALLY NOTED ON PLAN.

CONSTRUCTION NOTES CONT'D

- 13. COORDINATE RACK MOUNTING LOCATION WITH OWNER I.T. DEPT. AND CONFIRM PROPOSED DATA RACK LOCATION PRIOR TO INSTALLATION AND BOLTING TO FLOOR.
- 14. LIGHT CONTROL RELAY AND POWER SUPPLY TRANSFORMER - REFER TO DETAIL ON SHEET E1.4.
- 15. EXISTING ATTIC AREA FIRE ALARM DEVICES TO REMAIN IN OPERATION.
- 16. E.C. TO PROVIDE 1-GANG BOX 46" AFF WITH 0.75" STUBBED OUT ABOVE CEILING FOR RELOCATED LOCUTION 'MONITOR/NIGHT' SWITCH - (SWITCH REMOVED AND INSTALLED AND WIRED BY OWNER VENDOR P+R COMMUNICATIONS).
- 17. EXISTING 'LOCUTION' ALERTING SYSTEM PANEL RELOCATION AND WIRING EXTENSION AND RECONNECTION BY OWNER VENDOR P+R COMMUNICATIONS.
- 18. (2) RECESSED 1-GANG BOXES 78" AFF WITH 1-GANG RINGS AND 1-GANG COVER AND RECESSED 1" C. FROM EACH BOX TO ABOVE ATTIC CEILING FROM EACH BOX FOR 'LOCUTION' SYSTEM WIRING.
- 19. PROVIDE 2-2" C. SLEEVES WITH BUSHINGS ON ENDS IN CEILING FOR OPEN LV WIRING TO ATTIC.
- 20. PROVIDE NEW RETURN DUCT DETECTOR AT NEW RETURN DUCT DROP FROM ATTIC, DETECTOR TO INCLUDE FORM 'C' DRY CONTACT FOR AHU CONTROL INTERFACE.
- 21. DOORBELL BUTTON WIRED TO 'LOCUTION' ALERTING SYSTEM - E.C. TO PROVIDE PULLSTRING IN STOREFRONT FRAMING FROM 46" AFF. TO ABOVE LAY-IN CEILING. (DOORBELL BUTTON AND WIRING BY OWNER VENDOR P+R COMMUNICATIONS).

CONSTRUCTION NOTES

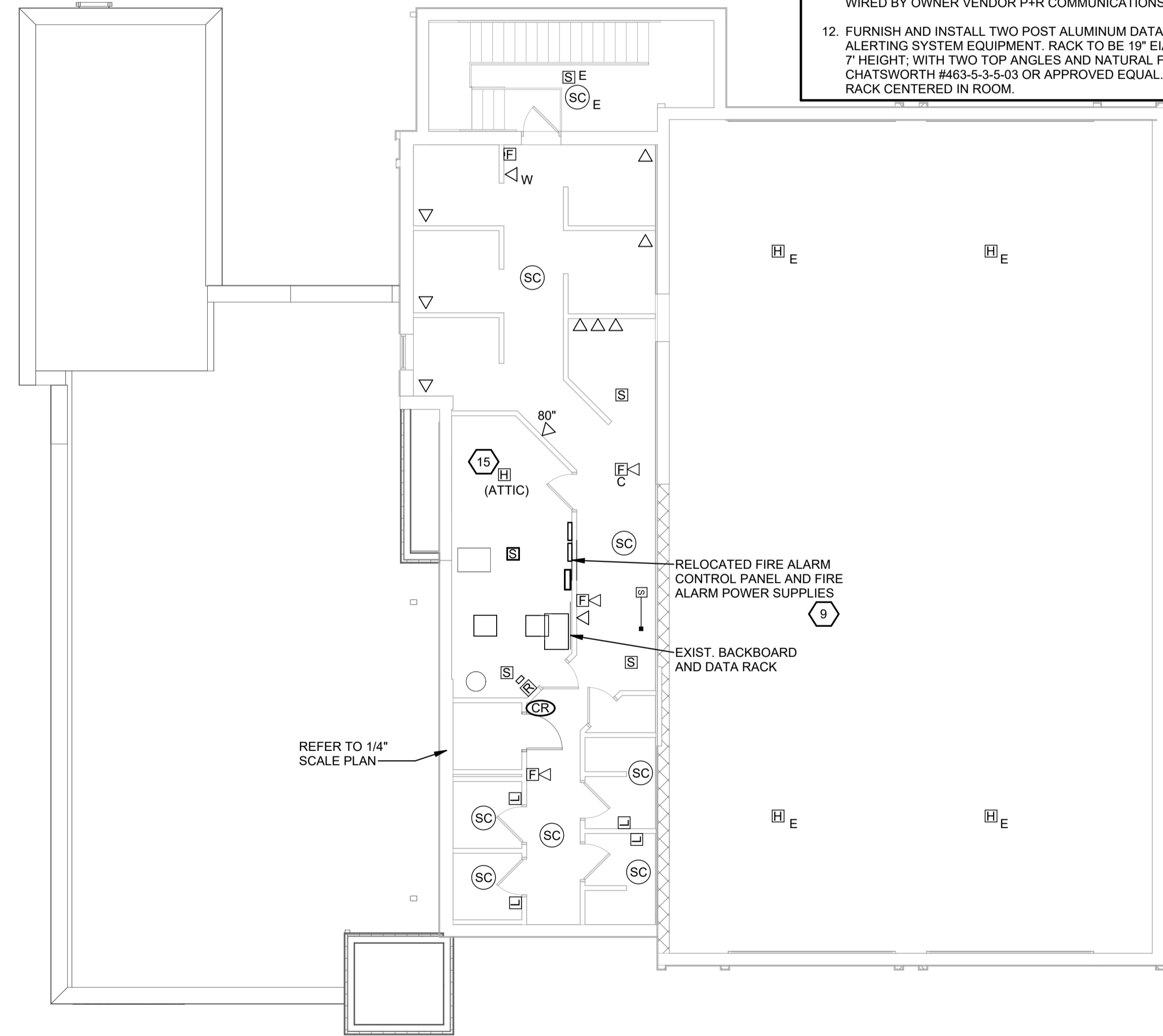
- NOTE: THESE NOTES ARE APPLICABLE TO BOTH PHASE 1 AND PHASE 2 WORK AS SHOWN ON THIS SHEET AND SHEET E2.6.
- 1. DRILL AND PATCH FLOOR SLAB TO INSTALL 3-3" C. SLEEVES THROUGH FLOOR WITH NYLON BUSHINGS ON EACH END.
 - 2. DRILL AND PATCH WALL ABOVE CEILING TO INSTALL 3-3" C. SLEEVES THROUGH WALL WITH NYLON BUSHINGS ON EACH END.
 - 3. FIRE ALARM ANNUNCIATOR WITH RECESSED BACKBOX - INSTALL IN EXISTING WALL.
 - 4. MONITOR AND AV INPUT OUTLET ASSEMBLY - REFER TO DETAIL ON SHEET E0.5.
 - 5. PROVIDE ALL ROUGH-INS FOR ACCESS CONTROLLED LOCKING DOOR PER DETAIL ON SHEET E0.5.
 - 6. ACCESS CONTROL SYSTEM BY OWNER VENDOR (P+R COMMUNICATIONS), E.C. TO PROVIDE ROUGH-INS AT DOORS AND COORDINATE WITH OWNER VENDOR - PANEL INSTALLATION BY OWNER VENDOR.
 - 7. CONDUIT ROUGH-INS FOR DOOR LOCKING AND READER AT THIS DOOR TO BE SURFACE MOUNTED INSIDE STAIRWELL AND EXTENDED THROUGH STAIRWELL AND STUBBED OUT ABOVE ACCESSIBLE DAY ROOM CEILING. CUT 1-GANG RECESSED VERTICAL READER OUTLET BOX INTO EXISTING EXTERIOR BRICK WALL AND DRILL WALL TO FEED BOX.
 - 8. CONDUIT ROUGH-IN FOR DOOR LOCKING AND CARD READER AT THIS DOOR TO BE SURFACE MOUNTED ON INTERIOR WALL AND EXTENDED TO SOUTH AND STUBBED OUT ABOVE OFFICE CEILING. CUT 1-GANG RECESSED VERTICAL READER OUTLET BOX INTO EXISTING EXTERIOR BRICK WALL AND DRILL WALL TO FEED BOX.
 - 9. FIRE ALARM PANEL, TO BE SURFACE MOUNTED. PROVIDE NEW TRIM AS REQUIRED FOR RELOCATED EXISTING FIRE ALARM CABINETS.
 - 10. DOORBELL BUTTON WIRED TO 'LOCUTION' ALERTING SYSTEM - E.C. TO PROVIDE 1 GANG BOX 46" AFF WITH 0.75" C. TO ABOVE LAY-IN CORRIDOR CEILING. (DOORBELL BUTTON AND WIRING BY OWNER VENDOR P+R COMMUNICATIONS).
 - 11. PROVIDE RECESSED 1-GANG BOX 54" AFF AND RECESSED 1-GANG BOX 120" AFF WITH 0.75" C. BETWEEN BOXES AND 0.75" C. FROM UPPER BOX STUBBED OUT ABOVE CORRIDOR CEILING FOR RELOCATED EXISTING OUTDOOR 'LOCUTION' SPEAKER SWITCH AND SPEAKER. (SPEAKER AND SWITCH INSTALLED AND WIRED BY OWNER VENDOR P+R COMMUNICATIONS).
 - 12. FURNISH AND INSTALL TWO POST ALUMINUM DATA RACK FOR ALERTING SYSTEM EQUIPMENT. RACK TO BE 19" EIA CHANNEL x 7" HEIGHT, WITH TWO TOP ANGLES AND NATURAL FINISH. CHATSWORTH #463-5-3-03 OR APPROVED EQUAL. INSTALL RACK CENTERED IN ROOM.



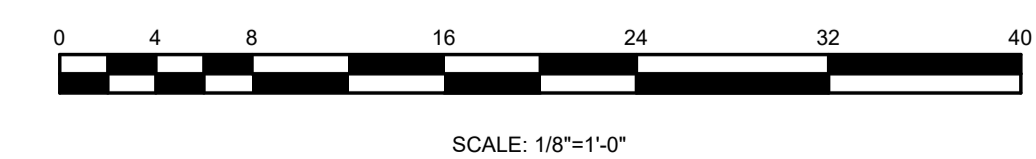
ENLARGED I.T. ROOM PLAN
SCALE: 1/4" = 1'-0"



FIRST FLOOR NEW WORK PLAN - SYSTEMS - PHASE 1
SCALE: 1/8" = 1'-0"

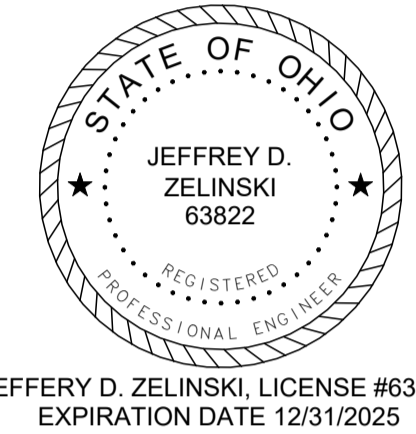


SECOND FLOOR NEW WORK PLAN - SYSTEMS - PHASE 1
SCALE: 1/8" = 1'-0"



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PHASE 1 - SYSTEMS NEW WORK PLANS

SHEET NO.
E1.6

CONSTRUCTION GENERAL NOTE

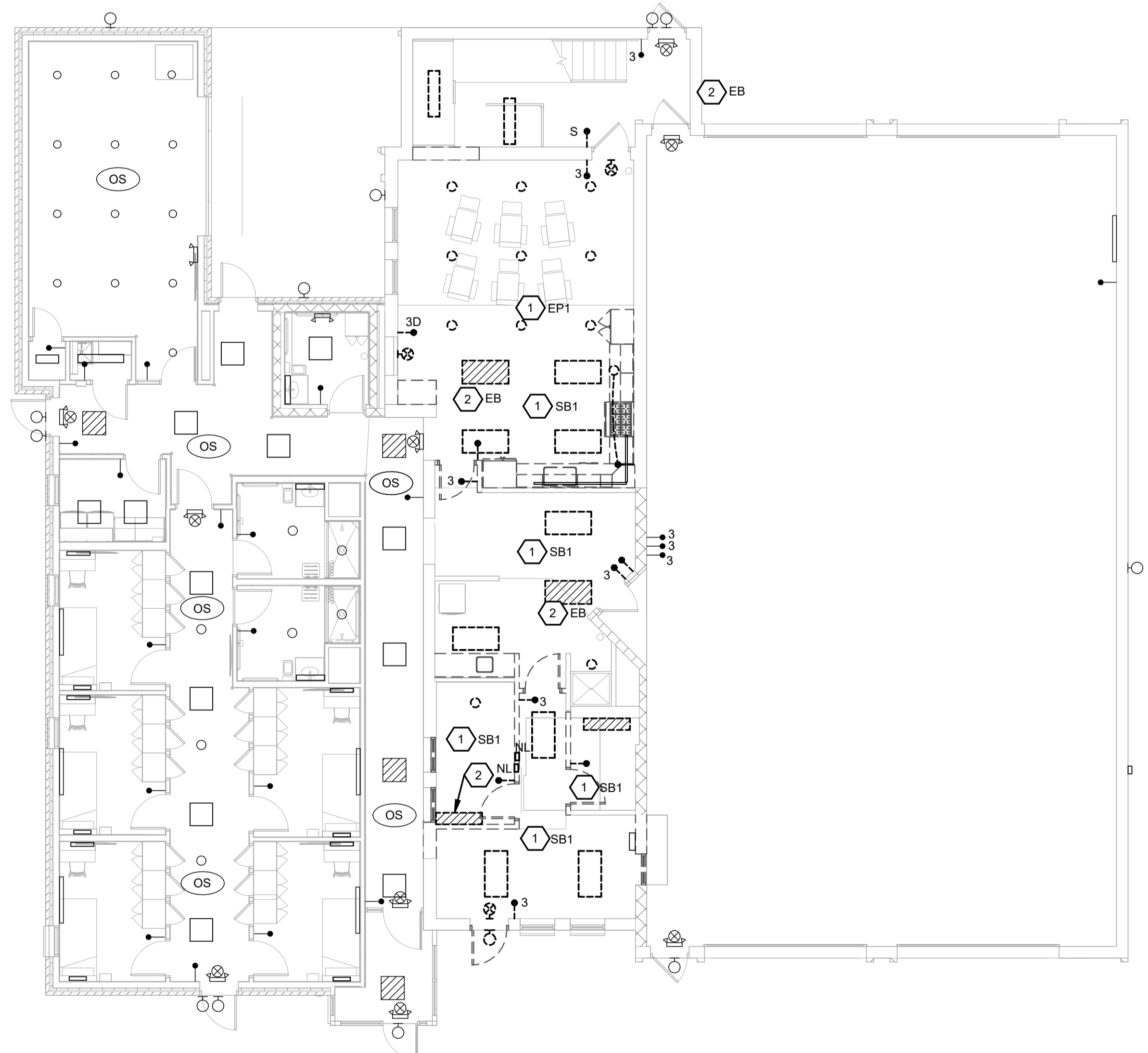
1. REFER TO SHEET E1.1 FOR NOTES APPLICABLE TO THIS SHEET.

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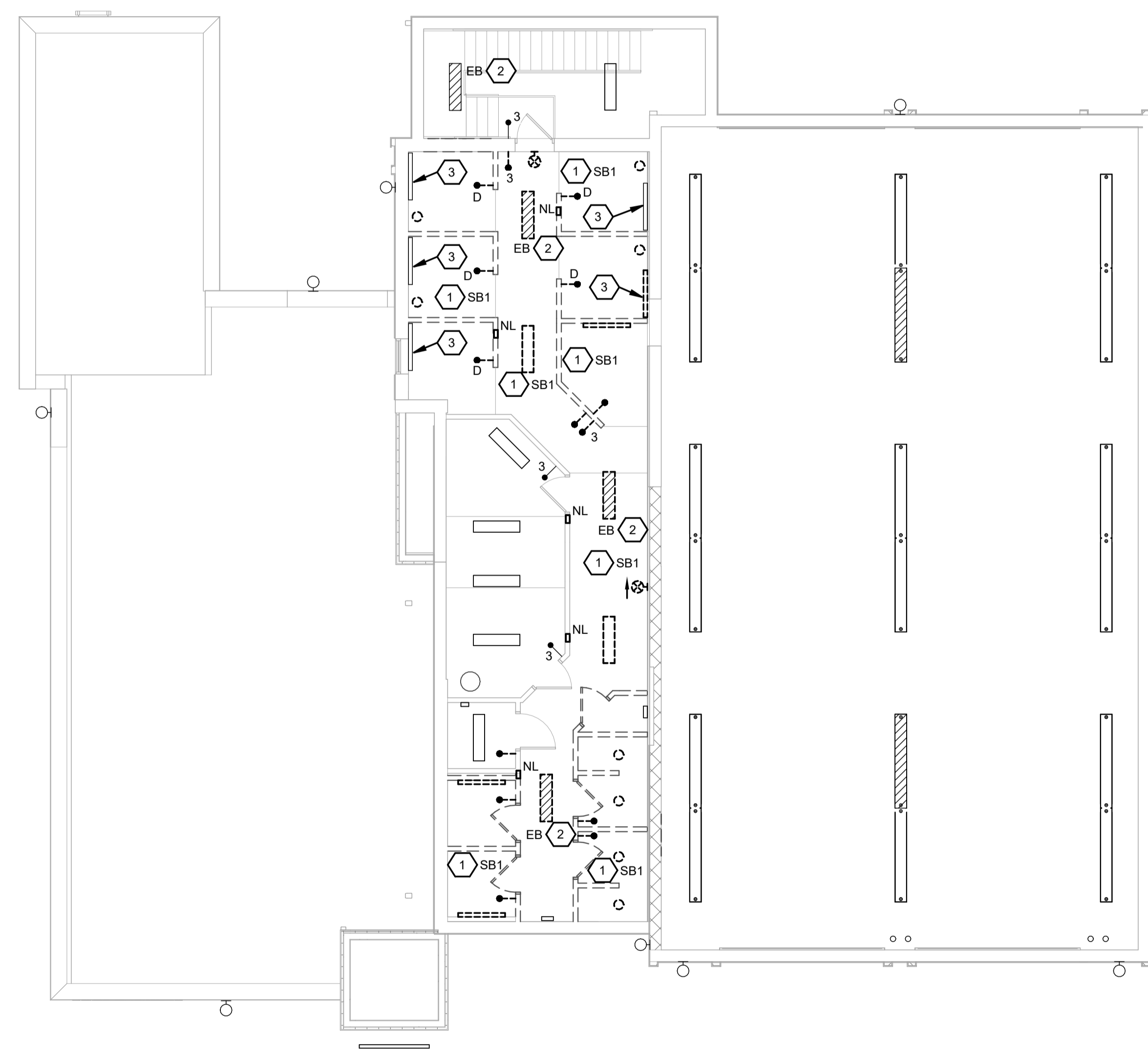
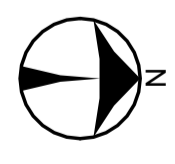


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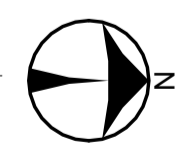
FIRST FLOOR DEMOLITION PLAN - LIGHTING - PHASE 2

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



SECOND FLOOR DEMOLITION PLAN - LIGHTING - PHASE 2

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



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

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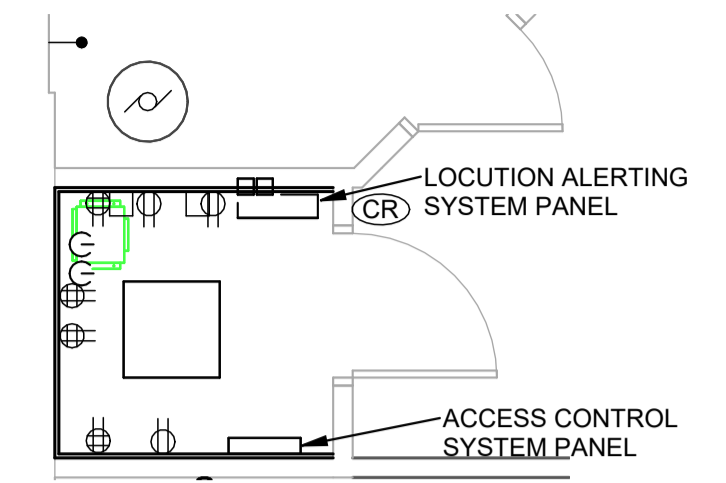
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**PHASE 2 - LIGHTING
DEMOLITION PLANS**

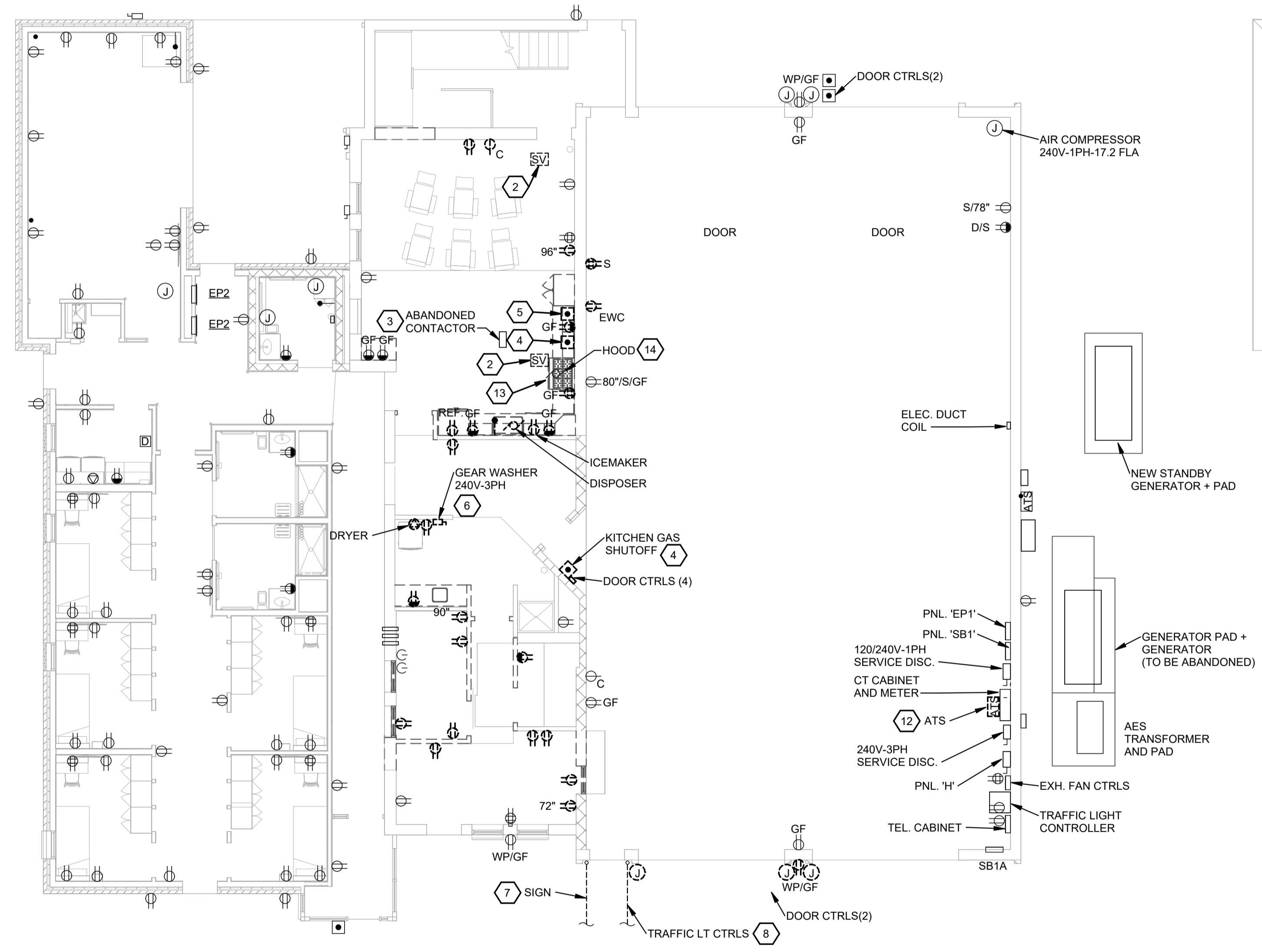
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CONSTRUCTION NOTES
 1. REFER TO SHEET E1.2 FOR NOTES APPLICABLE TO THIS SHEET.



I.T. ROOM PLAN
 SCALE: 1/4" = 1'-0"



FIRST FLOOR DEMOLITION PLAN - POWER - PHASE 2
 SCALE: 1/8" = 1'-0"

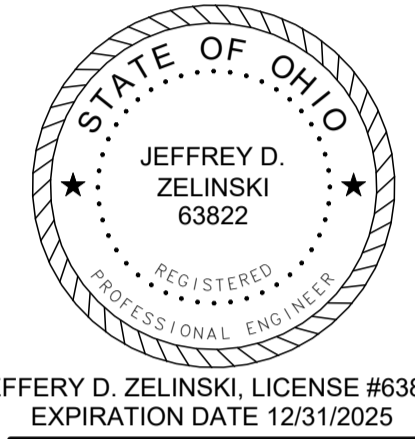


SECOND FLOOR DEMOLITION PLAN - POWER - PHASE 2
 SCALE: 1/8" = 1'-0"



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TITLE PHASE 2 - POWER DEMOLITION PLANS	
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E2.2

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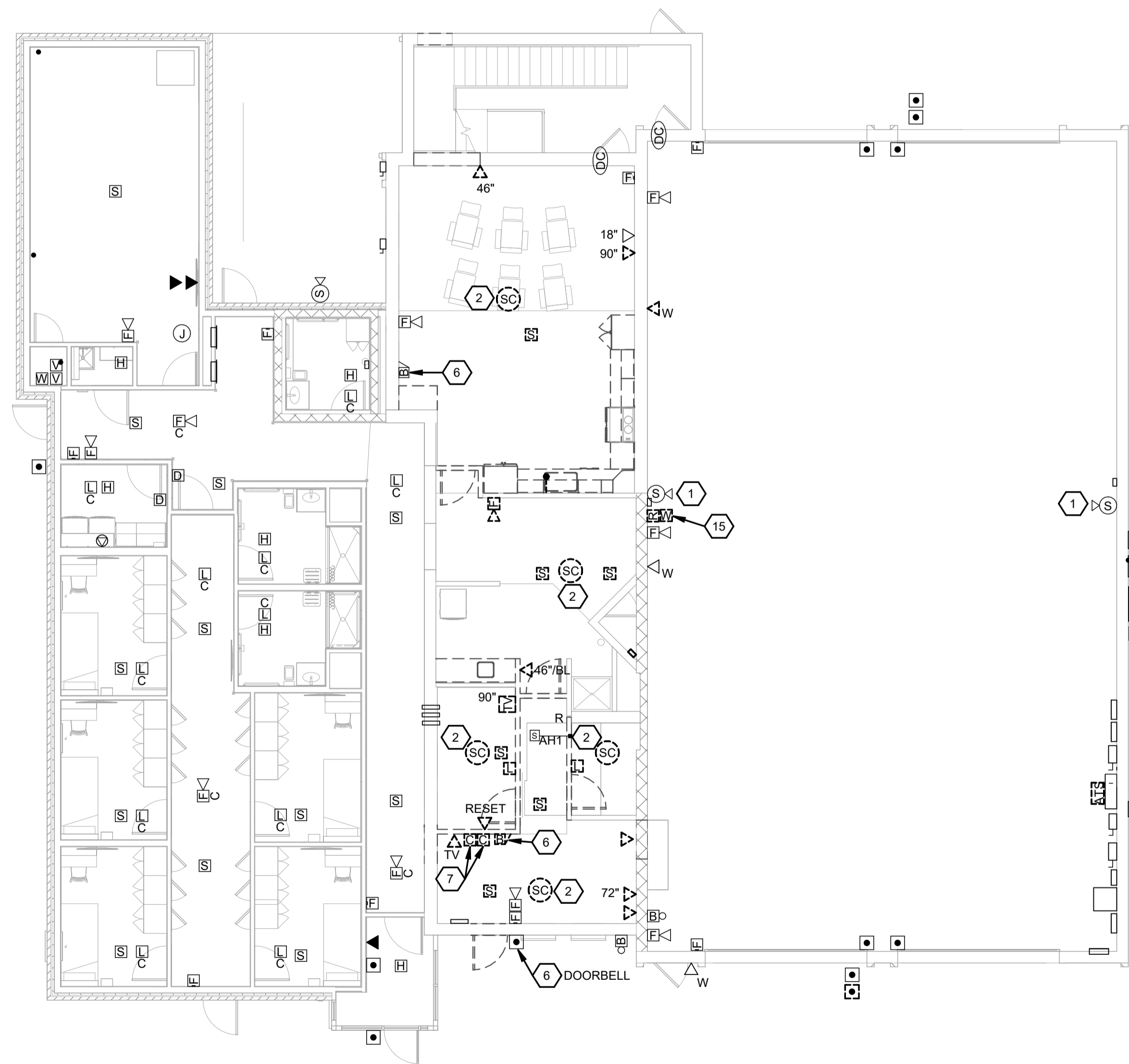
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**PHASE 2 - SYSTEMS
 DEMOLITION PLAN**

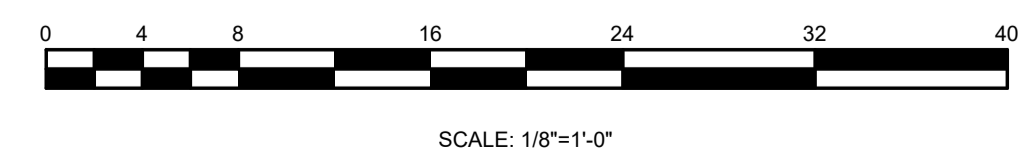
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E2.3



FIRST FLOOR DEMOLITION PLAN - SYSTEMS - PHASE 2
 SCALE: 1/8" = 1'-0"



SECOND FLOOR DEMOLITION PLAN - SYSTEMS - PHASE 2
 SCALE: 1/8" = 1'-0"



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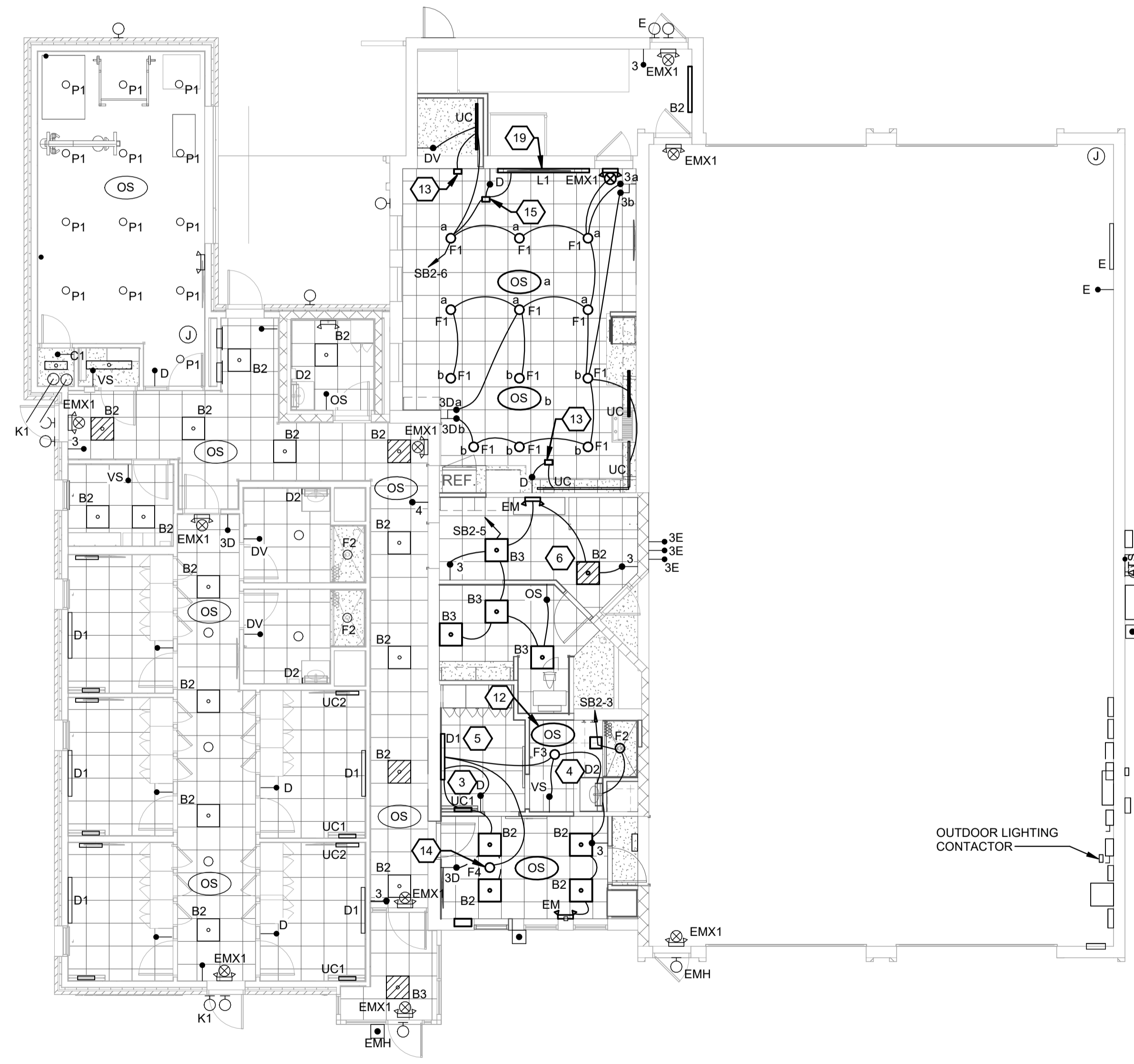
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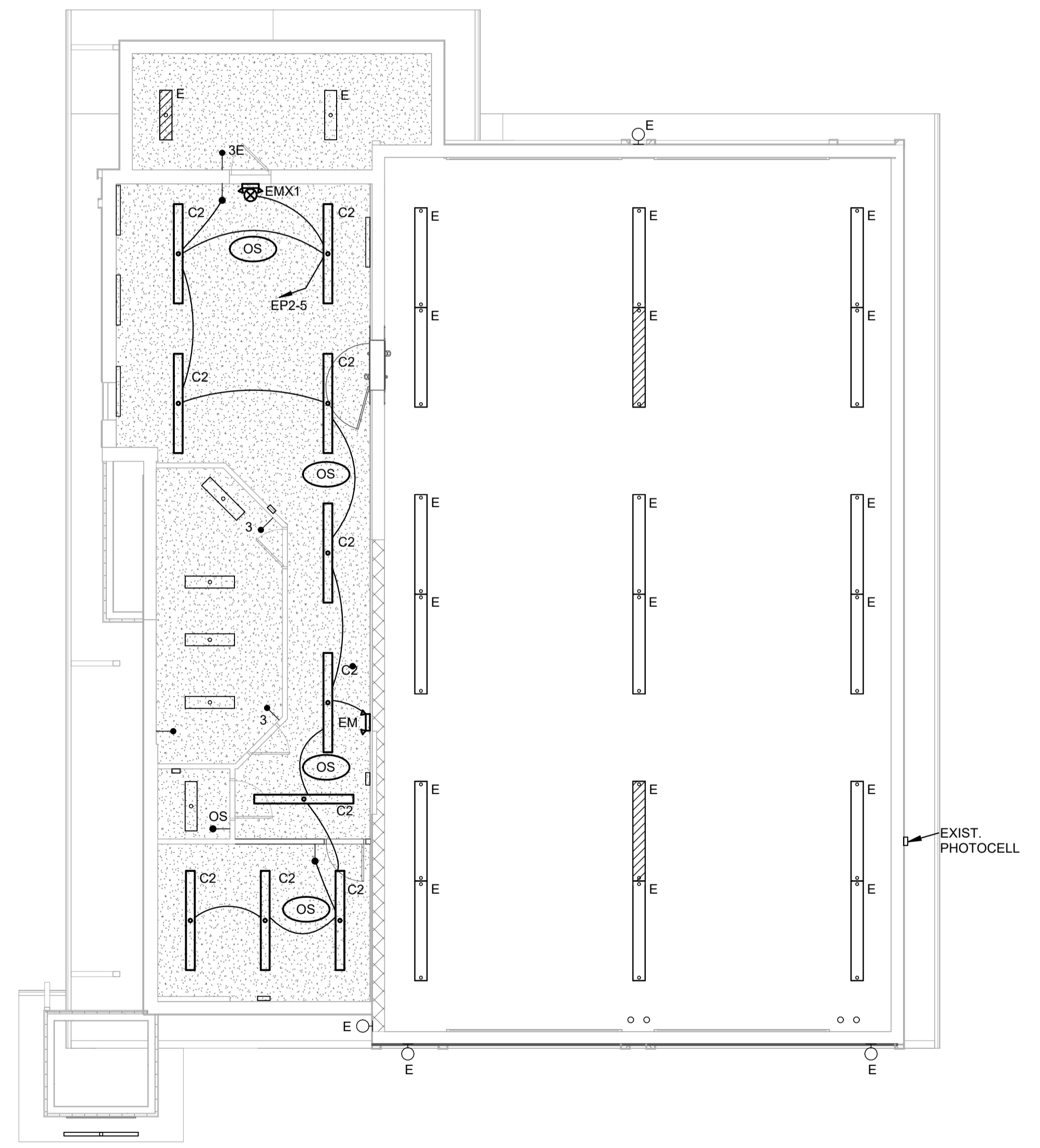
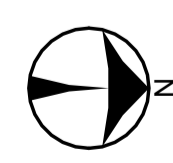
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TITLE PHASE 2 - LIGHTING NEW WORK PLANS	
SHEET NO.	

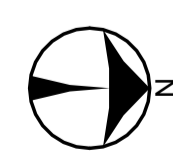
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FIRST FLOOR NEW WORK PLAN - LIGHTING - PHASE 2
 SCALE: 1/8" = 1'-0"



SECOND FLOOR NEW WORK PLAN - LIGHTING - PHASE 2
 SCALE: 1/8" = 1'-0"



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A

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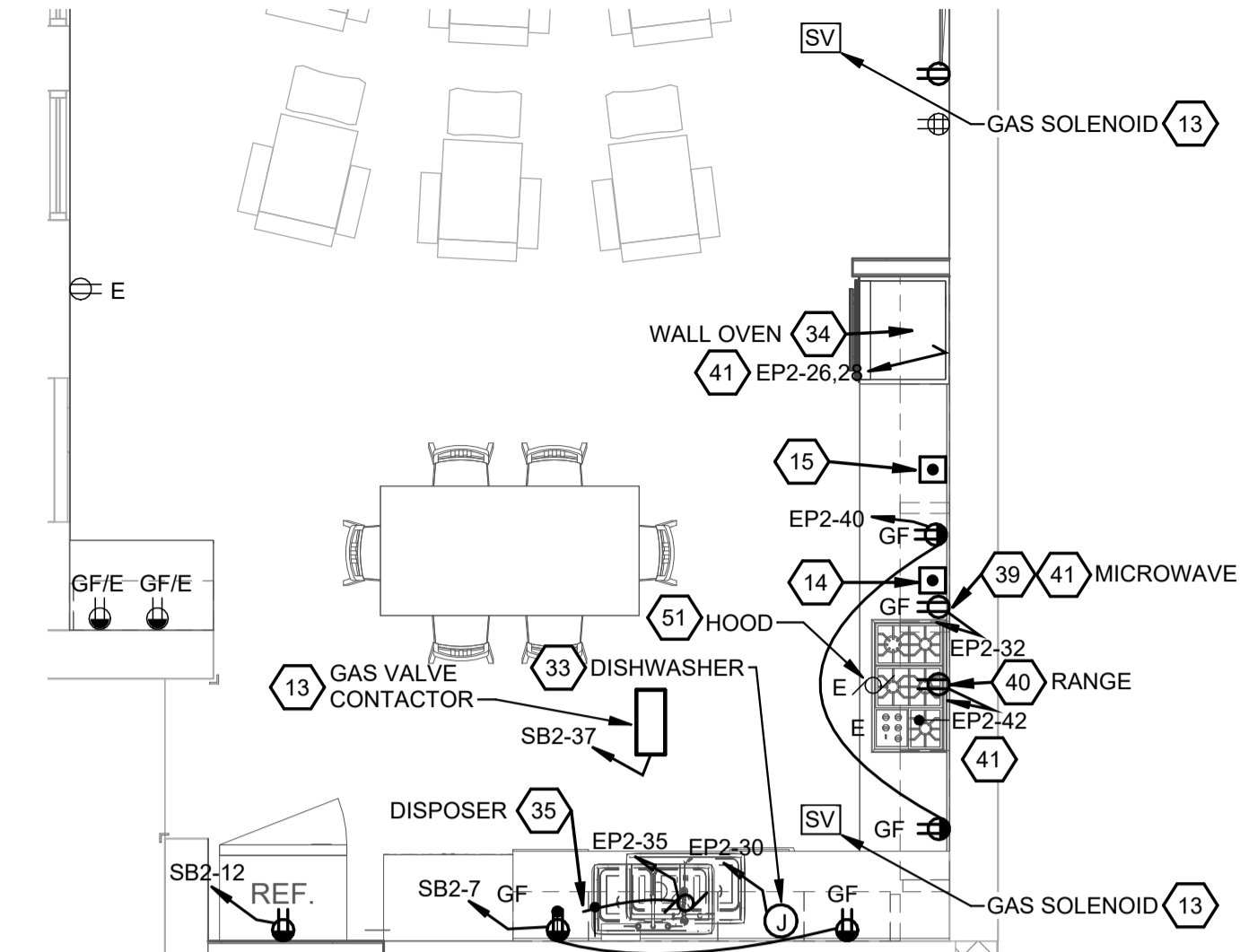
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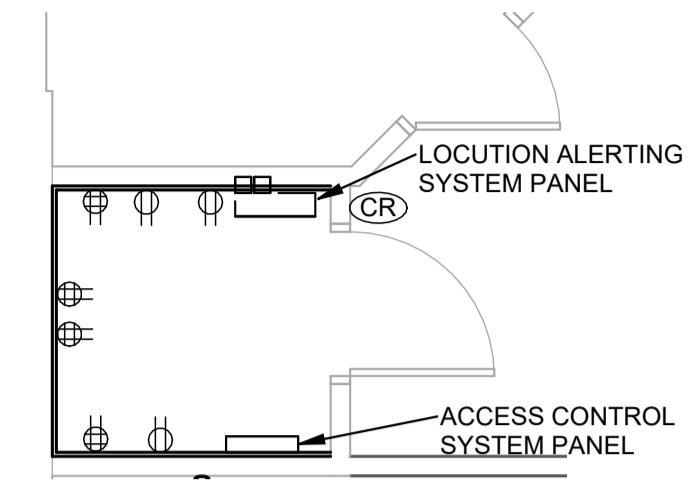
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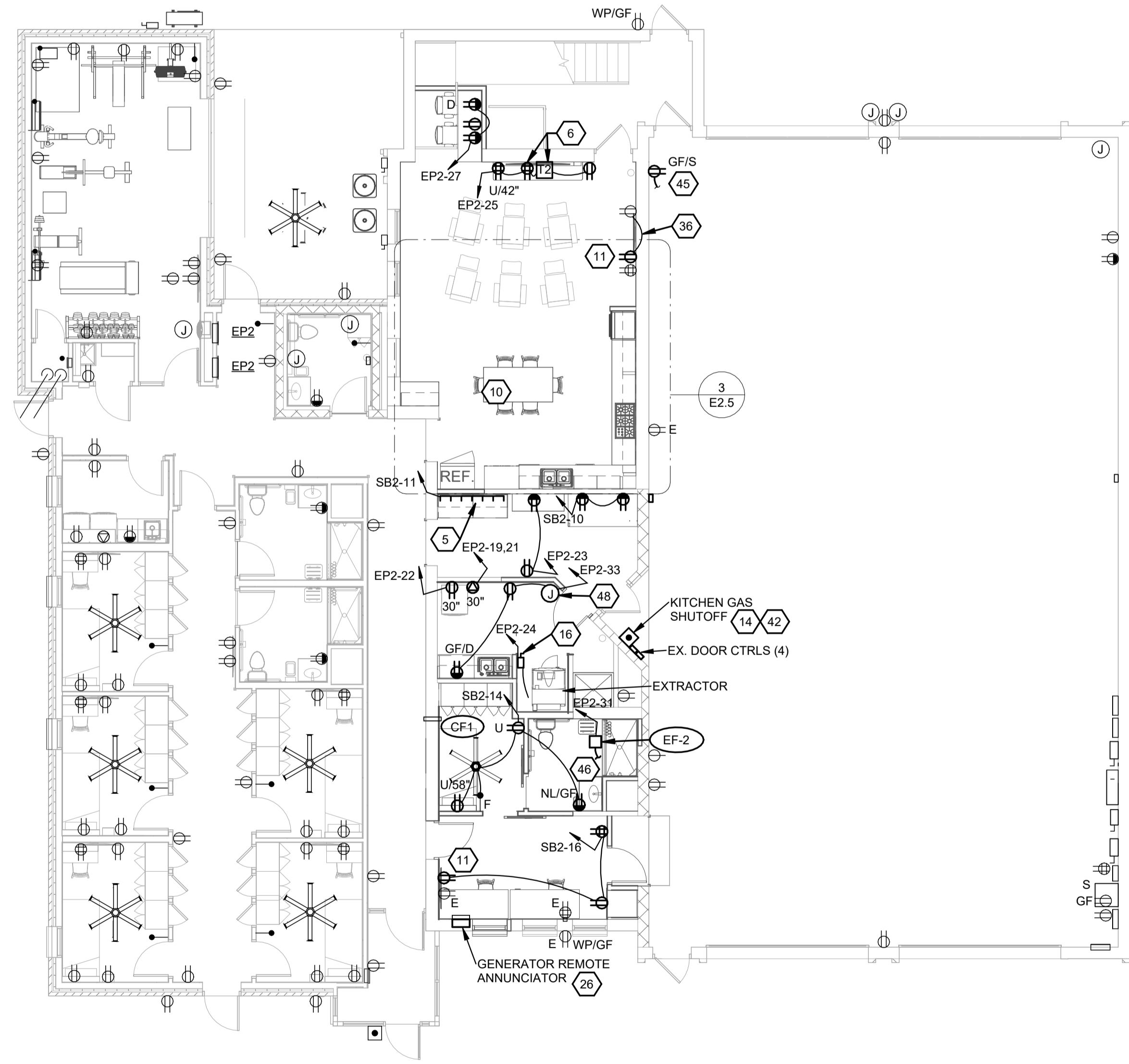
CONSTRUCTION NOTES
1. REFER TO SHEET E1.5 FOR NOTES APPLICABLE TO THIS SHEET.



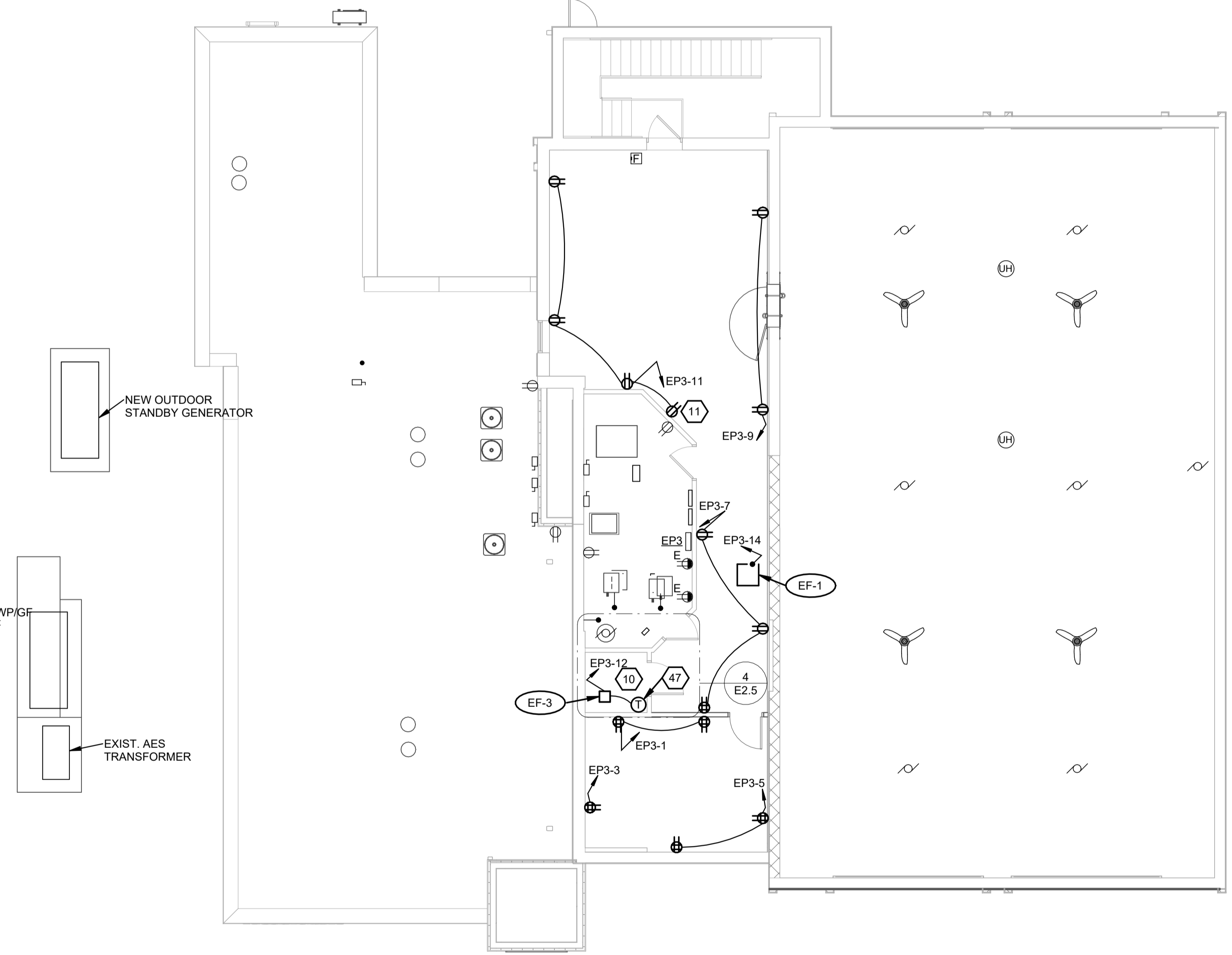
ENLARGED KITCHEN PLAN
SCALE: 1/4" = 1'-0"



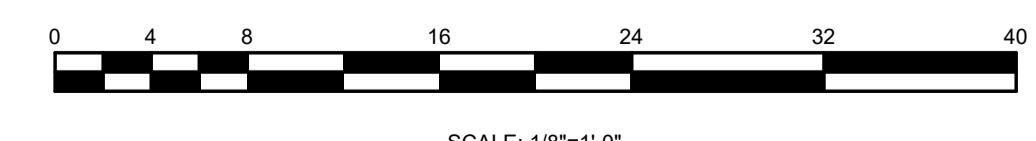
I.T. ROOM PLAN
SCALE: 1/4" = 1'-0"



FIRST FLOOR NEW WORK PLAN - POWER - PHASE 2
SCALE: 1/8" = 1'-0"



SECOND FLOOR NEW WORK PLAN - POWER - PHASE 2
SCALE: 1/8" = 1'-0"



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

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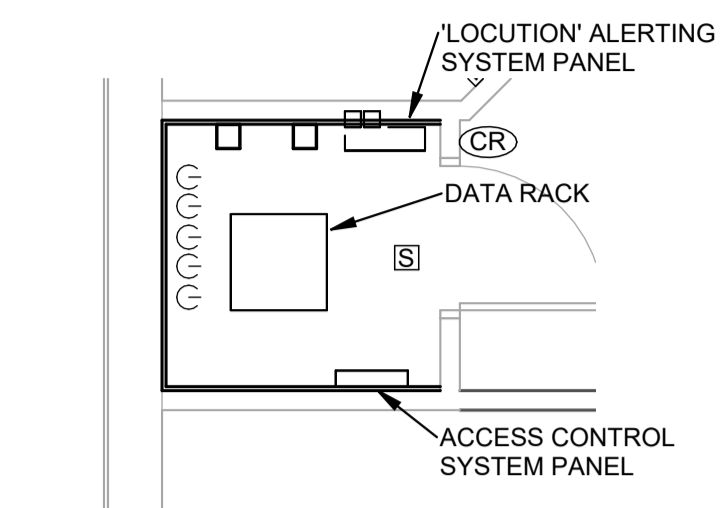
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PHASE 2 - POWER NEW WORK PLANS

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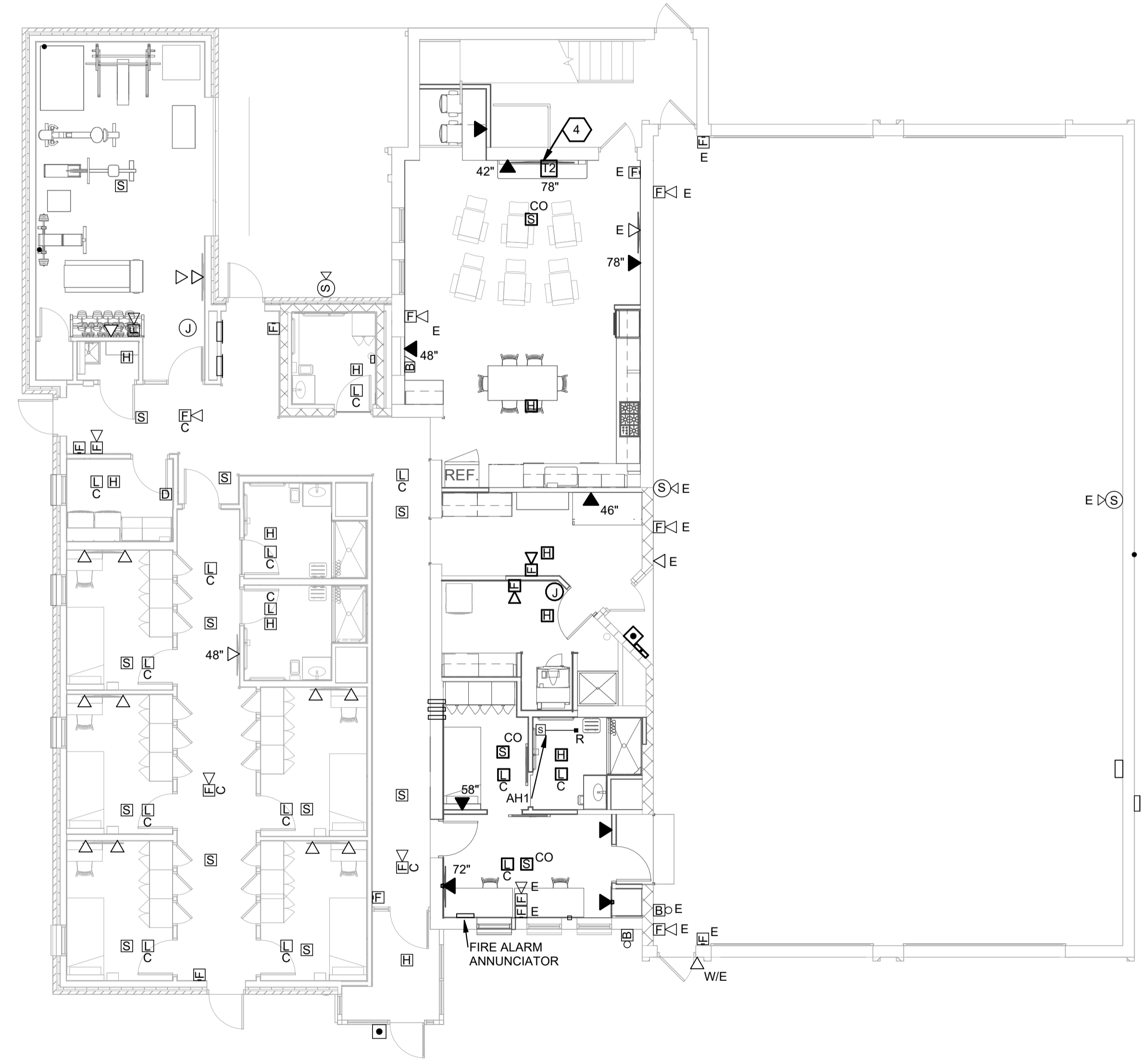
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ENLARGED I.T. ROOM PLAN
 SCALE: 1/4" = 1'-0"



FIRST FLOOR NEW WORK PLAN - SYSTEMS - PHASE 2
 SCALE: 1/8" = 1'-0"



SECOND FLOOR NEW WORK PLAN - SYSTEMS - PHASE 2
 SCALE: 1/8" = 1'-0"



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PHASE 2 - SYSTEMS NEW WORK PLANS

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