

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES

HARRISBURG, PENNSYLVANIA

JOSH SHAPIRO, GOVERNOR REGINALD B. MCNEIL, II, SECRETARY OF GENERAL SERVICES

PROJECT NO. D.G.S. C-0961-0044 PHASE 01
DMVA BUILDING 237 RENOVATION
BIDDLE AIR NATIONAL GUARD BASE
HORSHAM, PA 19044

PROFESSIONAL / ARCHITECT
ZIMMERMAN STUDIO, LLC
1927 SOUTH BROAD STREET, FIRST FLOOR
PHILADELPHIA, PA
PHONE (267) 687-5709

STRUCTURAL ENGINEERING CONSULTANT
DAVID MASON + ASSOCIATES
123 SOUTH BROAD STREET, STE. 1130
PHILADELPHIA, PA
PHONE (215) 372-3400

MECHANICAL ENGINEERING CONSULTANT
TREFZ ENGINEERING, INC.
601 DRESHER ROAD - SUITE 275
HORSHAM, PA 19044
PHONE (215) 572-8115

ELECTRICAL ENGINEERING CONSULTANT
TREFZ ENGINEERING, INC.
601 DRESHER ROAD - SUITE 275
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CIVIL ENGINEERING CONSULTANT
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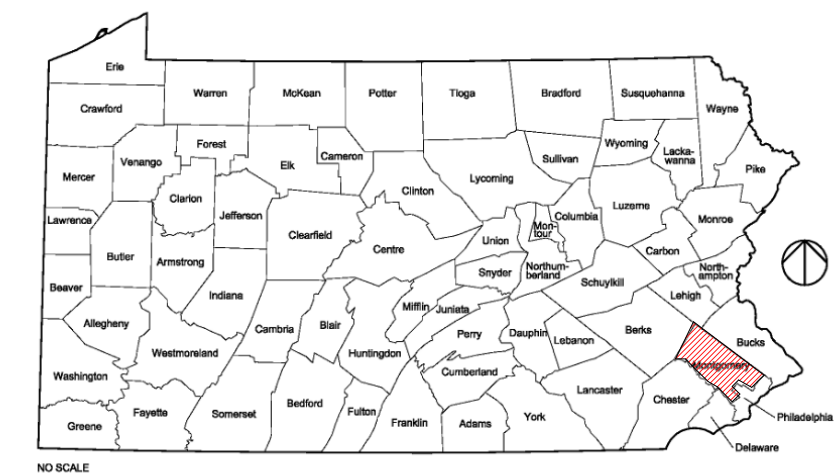
DRAWING COMMON TO ALL CONTRACTS LIST	
DRAWINGS COMMON TO ALL CONTRACTS	
CS-1	COVER SHEET
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G-2.0	LIFE SAFETY PLAN
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E-500	DETAILS
E-501	DETAILS
E-600	SINGLE LINE DIAGRAMS
E-601	SCHEDULES

CODE APPROVALS

NO APPROVALS
REQUIRED

VICINITY MAP



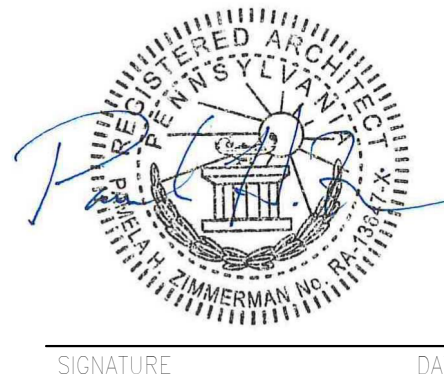
VICINITY MAP



CAMPUS/ KEY PLAN



REC'D REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE +
PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

COVER SHEET

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY <i>IB</i>	DATE 08/26/2024	DRAWING No. CS-1
	CHECKED BY <i>AK</i>	SCALE As indicated	

ABBREVIATIONS table listing symbols for ACoustic, ABOVE FINISHED FLOOR, ADJACENT, ADJUSTABLE, ALUMINUM, ARCHITECT, ARCHITECTURAL BOARD, B.O., BOTTOM OF, BUILDING, CABINET, CARPET, CEILING, CLG, CEILING JOIST, CENTER LINE, CERAMIC TILE, CLEAR, COLD WATER, COLUMN, CONC, CONCRETE, CONCRETE MASONRY UNIT, CONSTRUCTION, CONTINUOUS, DEMOLITION, DETAIL, DIA, DIMENSION, DOOR, DOWN, DRAWING, EACH, ELECTRIC, EQUIPMENT, ESTIMATE, EXISTING, FEET FOOT, FINISH, FINISH FLOOR, FIRE EXTINGUISHER, FIRE EXTINGUISHER CABINET, FIRE-RESISTANCE TREATED, FLUORESCENT, FRAME, FURNITURE, GAUGE, GENERAL CONTRACTOR, GLASS, GYPSUM WALL BOARD, HARDWARE, HEIGHT, HOLLOW METAL, HORIZONTAL, HOT WATER, INCH, INSULATION, INTERIOR, JUNCTION BOX, LAUNDRY, MANUFACTURE, MASONRY OPENING, MAXIMUM, MECHANICAL, METAL, MINIMUM, MISCELLANEOUS, NOMINAL, NOT IN CONTRACT, NOT TO SCALE, OPPOSITE, OVERFLOW DRAIN, PAINT, PAINTED, PARTITION, PLASTIC LAMINATE, PLYWOOD, QTY, QUANTITY, RADIUS, RAINWATER CONDUCTOR, REFERENCE, REINFORCE, REQUIRED, REVISION, ROOF DRAIN, ROOM, ROUGH OPENING, SIMILAR, SOLID CORE, SPECIFICATIONS, SQUARE FEET, SQUARE INCHES, STAINLESS STEEL, STANDARD, STEEL, SUSPENDED, SYSTEM, TELEPHONE, TOP OF, TYPICAL, UNLESS NOTED OTHERWISE, VERIFY IN FIELD, VERTICAL, VINYL COMPOSITION TILE, VENTILATION THROUGH ROOF, WATER CLOSET, WEIGHT, WELDED WIRE REINFORCING, WITH, WITHOUT, WOOD, YARD.

ARCHITECTURAL LEGEND table defining symbols for ROOM IDENTIFICATION, ENLARGED PLAN OR DETAIL MARK, MULTIPLE ELEVATION REFERENCE, ELEVATION REFERENCE, SECTION REFERENCE, WORKING POINT OR DATUM, PARTITION TYPE, COLUMN GRID, SPOT ELEVATION TAG, DOOR TAG IDENTIFICATION, WINDOW TAG, CLEAR DIMENSION BETWEEN ELEMENTS, DIMENSION TO EDGE, DIMENSION TO CENTERLINE, FLOOR CORE, COORD. LOCATION WITH MPE DOCUMENTS, PARTITION CORE, COORD. LOCATION & SIZE WITH MPE DOCUMENTS, WALL OR PARTITION WITH 1/2-HOUR FIRE-RESISTANCE RATING, WALL OR PARTITION WITH 1-HOUR FIRE-RESISTANCE RATING, WALL OR PARTITION WITH 2-HOUR FIRE-RESISTANCE RATING, FIRE EXTINGUISHER, FIRE EXTINGUISHER CABINET.

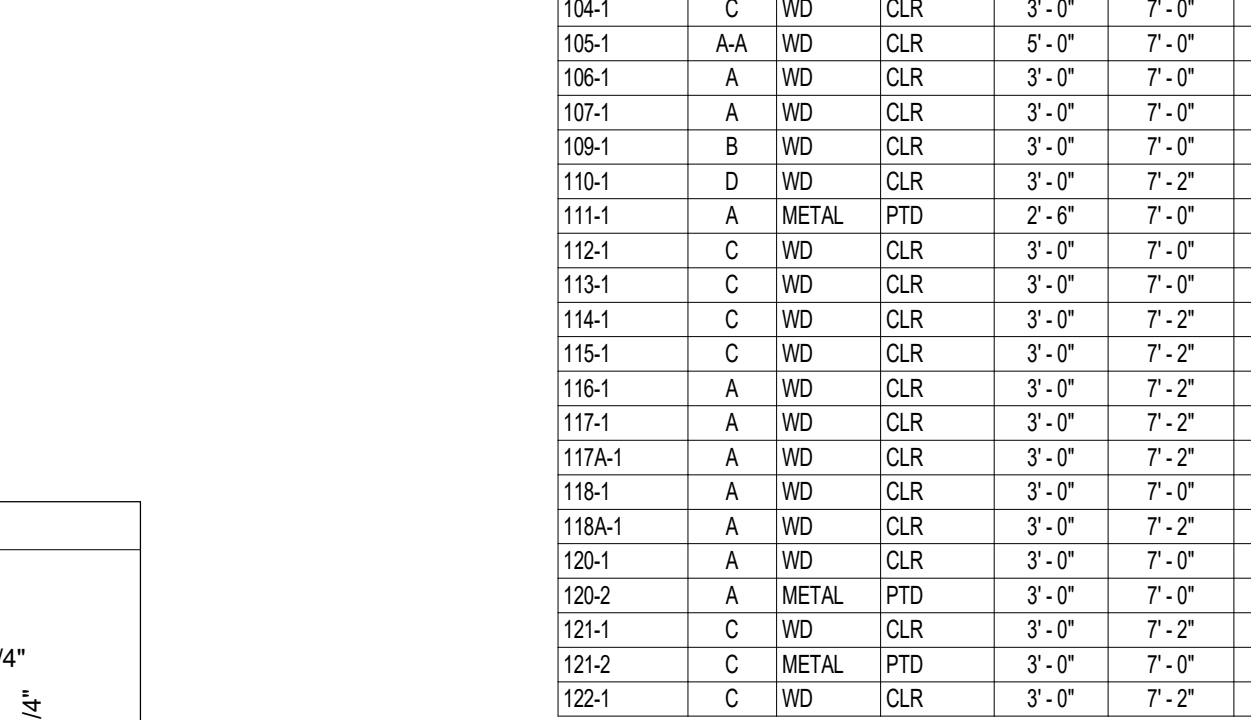
MATERIALS LEGEND table showing patterns for EARTH, COMPACTED FILL, EARTH, UNDISTURBED, CRUSHED ROCK GRAVEL, CONCRETE, CAST STONE, MASONRY, BRICK, RIGID INSULATION, WOOD BLOCKING OR SHIM, WOOD FRAMING, CONTINUOUS, PLYWOOD, WOOD - FINISHED, PLASTER OR GYPSUM BOARD, SOLID SURFACE.

CEILING LEGEND table defining symbols for CEILING TYPE, CEILING HEIGHT, 2' X 2' SUSPENDED CEILING WITH GASKETED GRID, GWS SOFFIT, CEILING AND EXISTING HARD CEILING, SMOKE DETECTOR, STROBE, SPRINKLER HEAD AND ESCUTCHEON, CEILING MOUNTED EGRESS LIGHT, RETURN DIFFUSER, SUPPLY DIFFUSER, UTOMATIC DETECTOR, CEILING MOUNTED OCCUPANCY SENSOR, WALL MOUNTED OCCUPANCY SENSOR, CEILING / PENDANT MOUNTED DAYLIGHT SENSOR, 2' X 2' RECESSED LED LIGHT FIXTURE, 1' X 4' RECESSED MOISTURE RESISTANT LED LIGHT FIXTURE, 6" RECESSED LED LIGHT FIXTURE, MOISTURE RESISTANT IN ALL WET LOCATIONS, 36" PENDANT ROUND LED LIGHT FIXTURE, 24" PENDANT ROUND LED LIGHT FIXTURE, WALL MOUNTED POINT SOURCE LED LIGHT FIXTURE, PENDANT ROUND LED LIGHT FIXTURE, 4' X 4' SURFACE MOUNTED LED LINEAR LIGHT FIXTURE, PENDANT LOW BAY LED LIGHT FIXTURE, EXTERIOR LED WALL SCONCE, OUTDOOR SURFACE MOUNTED LED LIGHT FIXTURE.

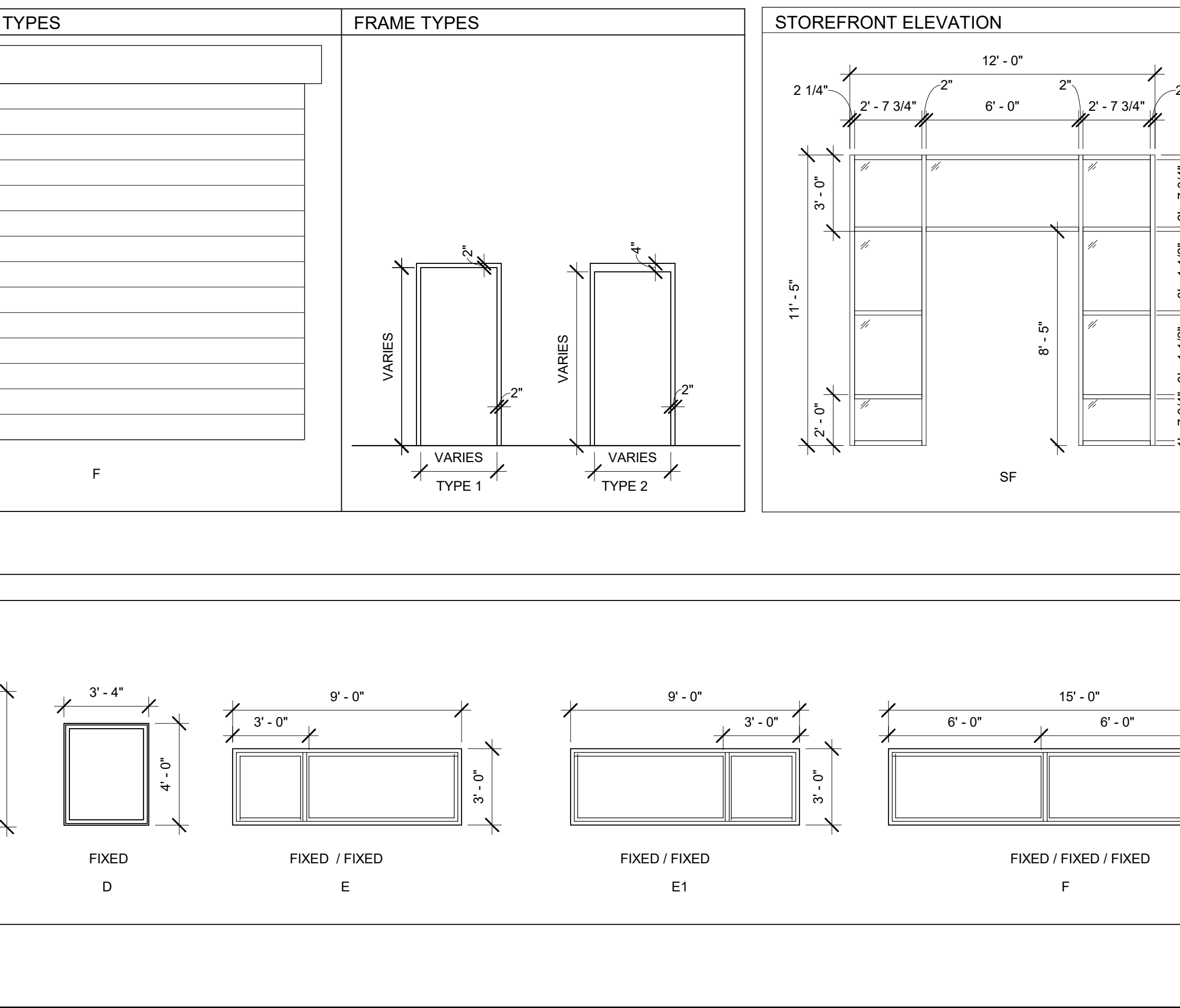
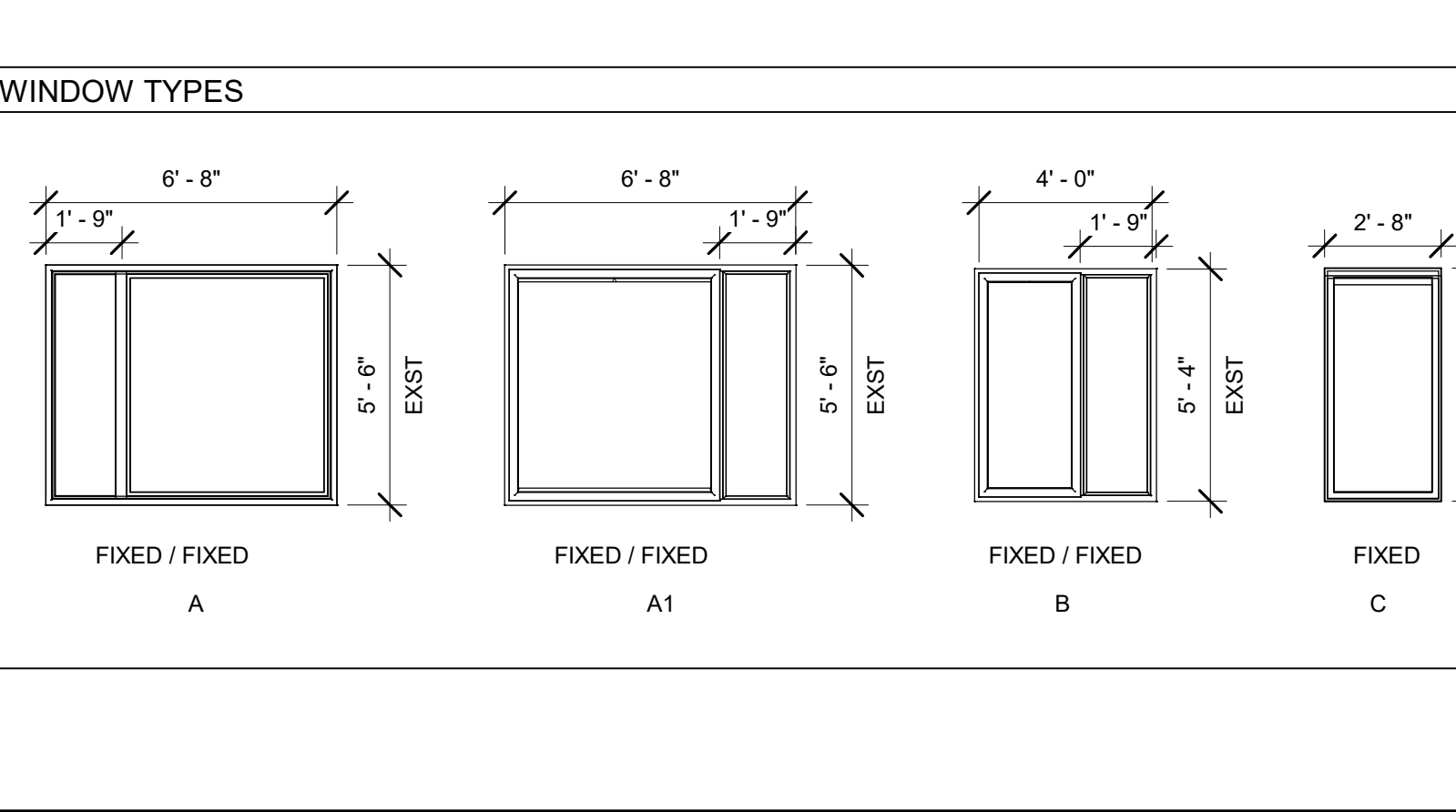
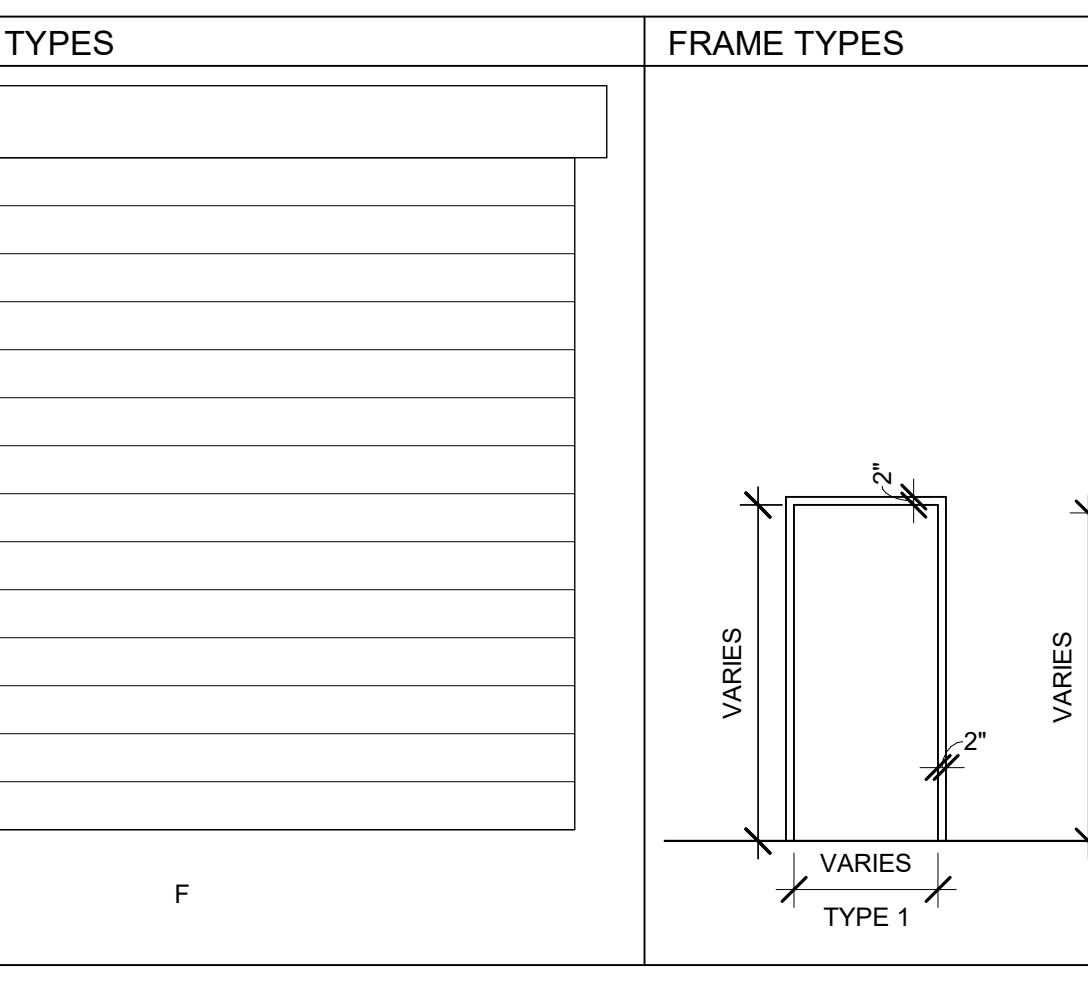
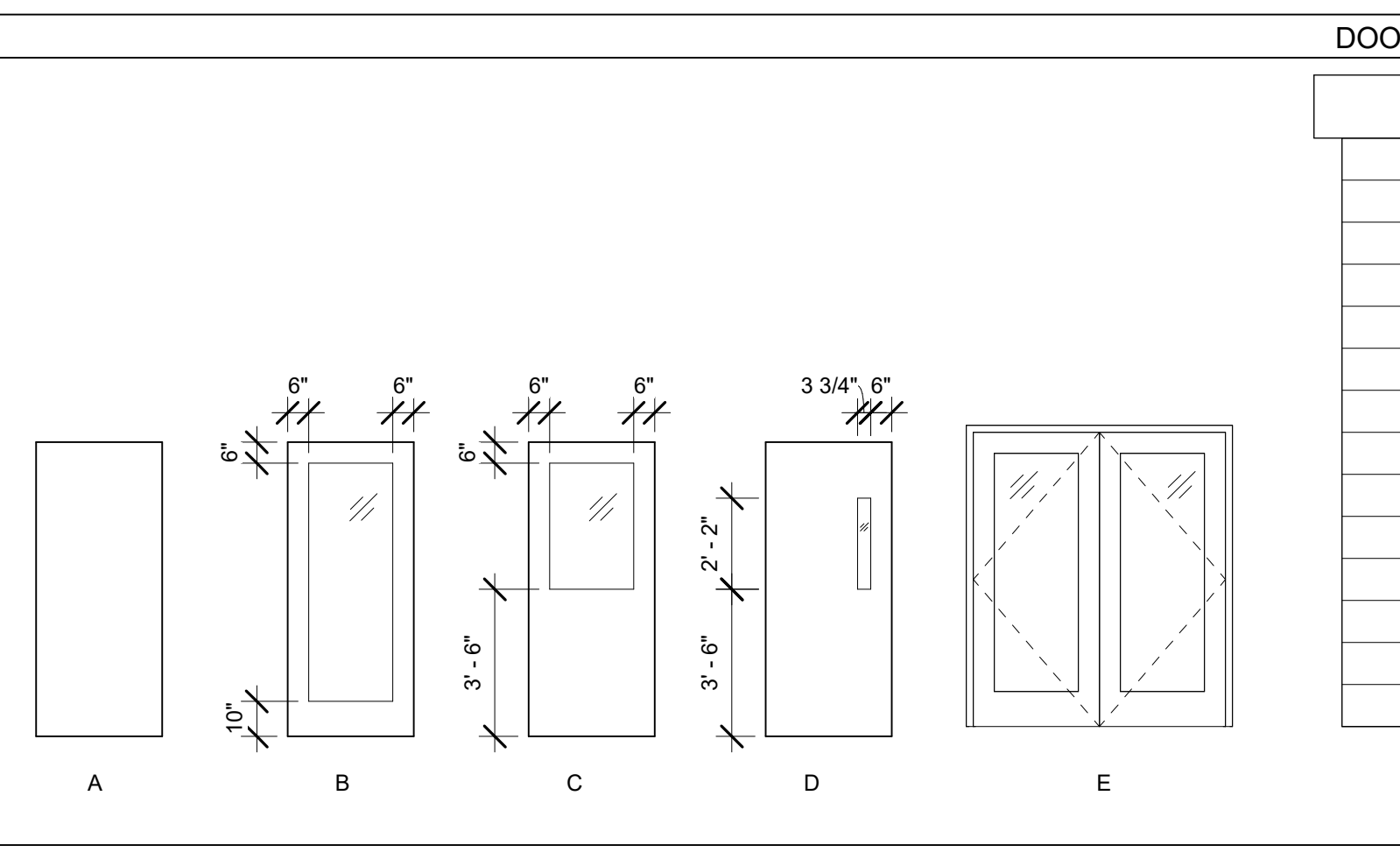
PARTITION TYPE SCHEDULE table with 9 rows detailing partition specifications such as 3 5/8" METAL STUDS @ 16" O.C., 6" METAL STUDS @ 16" O.C., and 6" COLD FORMED METAL STUDS @ 16" O.C.

GLAZING SCHEDULE table defining IG-1 INSULATED GLAZING @ EXTERIOR and G-1 MONOLITHIC GLAZING @ INTERIOR.

DOOR & OPENING SCHEDULE table with 30 rows detailing door and opening specifications including Mark, Door Type, Door Material, Door Finish, Door Width, Door Height, Frame Type, Frame Material, Glazing, Hardware Set, and Comments.



Window Schedule table with 12 rows detailing window specifications including Type Mark, Height, Width, Count, Construction Type, Glazing, Operation, Sill Height, and Comments.



Window Schedule table (continued) with 12 rows detailing window specifications including Type Mark, Height, Width, Count, Construction Type, Glazing, Operation, Sill Height, and Comments.

VERIFICATION SCALE and ZIMMERMAN STUDIO logo. Includes text: 'ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR'. Also includes text: 'CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.'.

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES logo and project information: 'COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01 BUILDING 237 RENOVATION BIDDLE AIR GUARD STATION HORSHAM, PA 19044'. Includes 'COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA' stamp and 'DRAWING No. G-1.0'. Includes 'CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.' and 'DRAWN BY IB, DATE 08/26/2024, CHECKED BY AK, SCALE As Indicated'.

- APPLICABLE BUILDING CODES:
- ADOPTED BY THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE (UCC):
 - 2018 INTERNATIONAL BUILDING CODE (IBC), WITH AMENDMENTS.
 - 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC), WITH AMENDMENTS.
 - 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), WITH AMENDMENTS.
 - 2018 INTERNATIONAL MECHANICAL CODE (IMC), WITHOUT AMENDMENTS.
 - 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017), ADOPTED BY CHAPTER 27 OF THE 2018 IBC.
 - 2018 INTERNATIONAL PLUMBING CODE (IPC), WITH AMENDMENTS.
 - ICC A117.1-2017 (SCOPING REQUIREMENTS PER CHAPTER 11 OF THE 2021 INTERNATIONAL BUILDING CODE).
 - 2018 INTERNATIONAL FIRE CODE, WITHOUT AMENDMENTS.
 - 2018 INTERNATIONAL FUEL GAS CODE, WITHOUT AMENDMENTS.

PENNSYLVANIA CODE TITLE 34. LABOR AND INDUSTRY, PART 1. CHAPTER 3A. BOILER AND UNFIRED PRESSURE VESSEL REGULATIONS.

IEBC CHAPTER 5. CLASSIFICATION OF WORK
 ALTERATION - LEVEL 2 (WORK AREA EXCEEDS 50 PERCENT OF BUILDING AREA)
 WORK AREA (RENOVATIONS): 9,650 SF
 EXISTING BUILDING AREA: 9,650 SF

IEBC CHAPTER 10. CHANGE OF OCCUPANCY
 PARTIAL CHANGE OF OCCUPANCY FROM S-1 (MOTOR REPAIR GARAGE) TO B (TRAINING AND SKILL DEVELOPMENT NOT IN SCHOOL OR ACADEMIC PROGRAM)
 IBC CHAPTER 10 SECTION 1004 FIRE PROTECTION. THERE IS NO CHANGE IN THE FIRE PROTECTION SYSTEM THRESHOLD REQUIREMENT IN CHAPTER 9 OF THE INTERNATIONAL BUILDING CODE.

IBC CHAPTER 3. USE AND OCCUPANCY CLASSIFICATION
 USE GROUP: B BUSINESS (TRAINING AND SKILL DEVELOPMENT NOT IN SCHOOL OR ACADEMIC PROGRAM, OFFICES)

TABLE 506.2. ALLOWABLE AREA
 TYPE II, B OCCUPANCY, S. ALLOWABLE AREA = 92,000 SF
 ACTUAL AREA = 9,650 SF

IBC CHAPTER 6. TYPES OF CONSTRUCTION:
 EXISTING PREMANUFACTURED BUILDING: TYPE IIB, NON-COMBUSTIBLE.
 EXISTING MASONRY BUILDING: TYPE IIB, NON-COMBUSTIBLE.
 RENOVATIONS TO MATCH THE EXISTING BUILDING CONSTRUCTION TYPE.

REQUIRED FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS (PER TABLE 601):

PRIMARY STRUCTURAL FRAME:	0 HOURS
BEARING WALLS (EXTERIOR):	0 HOURS (NOT LESS THAN THE FIRE-RESISTANCE RATING BASED ON FIRE SEPARATION DISTANCE, PER TABLE 602)
BEARING WALLS (INTERIOR):	0 HOURS
NON-BEARING EXTERIOR WALLS AND PARTITIONS:	0 HOURS (BASED ON FIRE SEPARATION DISTANCE, PER TABLE 602)
NON-BEARING INTERIOR WALLS & PARTITIONS:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS

TABLE 602. FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON SEPARATION DISTANCE:
 FIRE SEPARATION DISTANCE = X (FEET)

OCCUPANCY GROUP B, TYPE IIB
 10 ≤ X < 30: 0 HOUR (NO BUILDINGS WITHIN 10 FEET OF BUILDING)

SECTION 903. GROUP B, AN AUTOMATIC SPRINKLER SYSTEM IS NOT REQUIRED. THE FIRE AREA DOES NOT MEET ANY OF THE CRITERIA NOTED FOR THE OCCUPANCY. FIRE SPRINKLER SYSTEM IS TO BE INSTALLED THROUGHOUT.

TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT:
 OCCUPANT LOAD FACTORS:

BUSINESS AREAS:	150 GROSS SQUARE FEET PER OCCUPANT.
CLASSROOM:	20 NET SQUARE FEET PER OCCUPANT.
EXERCISE ROOM:	50 GROSS SQUARE FEET PER OCCUPANT.
LOCKER ROOMS:	50 GROSS SQUARE FEET PER OCCUPANT.
STORAGE:	300 NET SQUARE FEET PER OCCUPANT.
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM:	300 GROSS SQUARE FEET PER OCCUPANT.

RENOVATIONS EXISTING BUILDING OCCUPANT LOAD:

FIRST FLOOR:

STORAGE:	1,402 SF / 300 = 5 OCCUPANTS
BUSINESS:	2,803 SF / 150 = 19 OCCUPANTS
CLASSROOM:	404 SF / 20 = 21 OCCUPANTS
MULTI:	3,182 SF / 50 = 64 OCCUPANTS
LOCKERS:	827 SF / 50 = 17 OCCUPANTS
TOTAL:	126 OCCUPANTS

IECC MINIMUM PRESCRIPTIVE BUILDING ENVELOPE:

MONTGOMERY COUNTY IS CLIMATE ZONE 4A
 IECC TABLE C402.1.3 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD:

ROOFS, INSULATION ENTIRELY ABOVE DECK	R-30 C.I. (CONTINUOUS INSULATION)
ROOFS, METAL BUILDINGS	R-19 + R11 LS
WALLS, ABOVE GRADE	R-11.4 C.I.
MASS (CMU, CONCRETE)	R-11.4 C.I.
WALLS, ABOVE GRADE	R-13 + R-13 C.I.
METAL BUILDING	R-4.75
OPAQUE DOORS, NON-SWINGING	R-4.75

IECC TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR REQUIREMENTS:

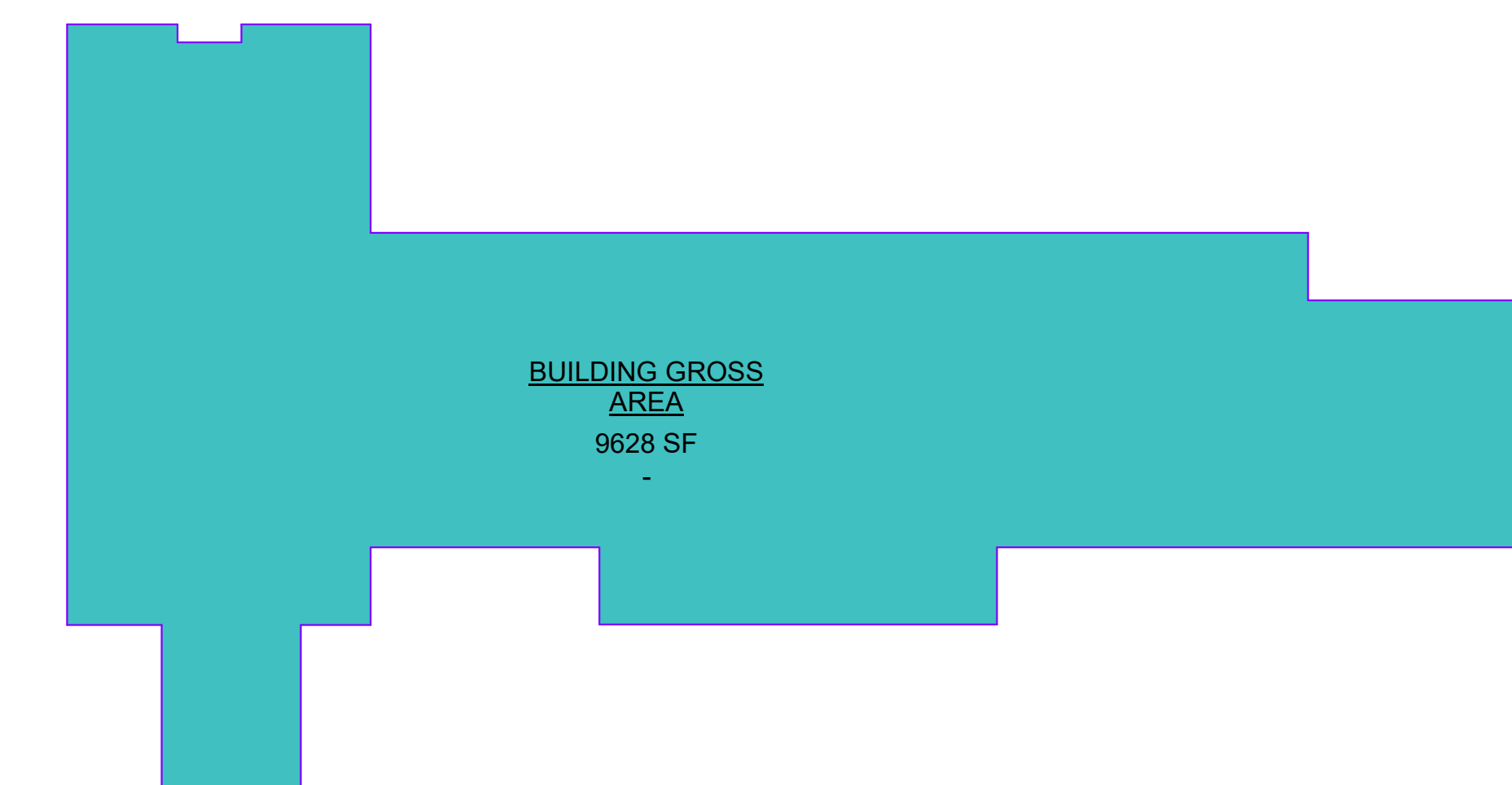
FIXED FENESTRATION:	0.38
OPERABLE FENESTRATION:	0.45
ENTRANCE DOORS:	0.77

IECC TABLE C402.5.2 MAXIMUM AIR LEAKAGE RATE FOR FENESTRATION ASSEMBLIES:

ROLLING DOORS:	1.00 CFM/FT ²
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Building Area Legend

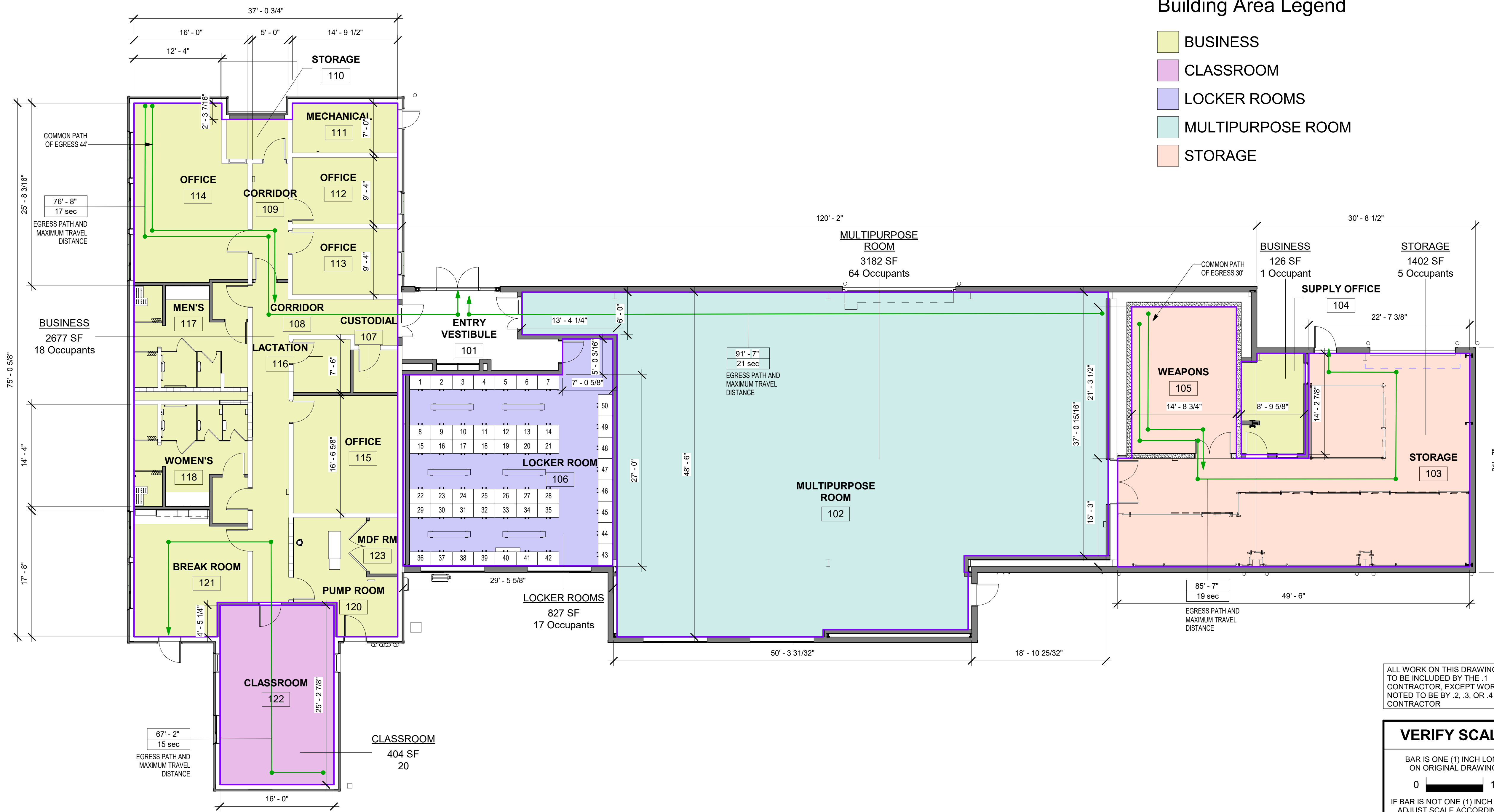
BUILDING GROSS AREA
 NET AREA RATIO: 0.895



1 GROSS AREA PLAN
 1" = 20'-0"

Building Area Legend

BUSINESS
 CLASSROOM
 LOCKER ROOMS
 MULTIPURPOSE ROOM
 STORAGE



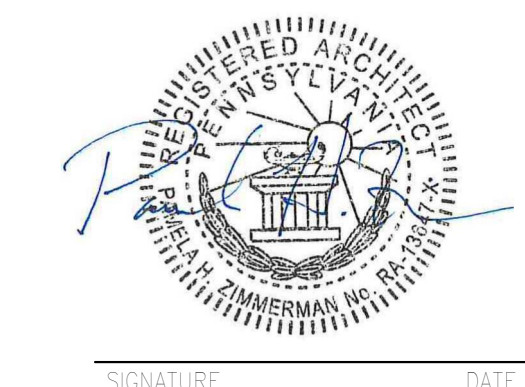
2 PLAN - LIFE SAFETY 9,628 GSF
 1/8" = 1'-0"

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1. CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
 0 1
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 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

REV SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	REVISED
10/31/2024	
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS
 Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
 ARCHITECTURE + PROJECT MANAGEMENT

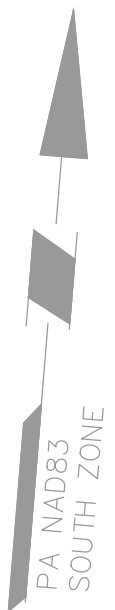
COMMONWEALTH OF PENNSYLVANIA
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 HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
 DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

LIFE SAFETY PLAN

DRAWN BY	DATE	DRAWING No.
IB	08/26/2024	G-2.0
CHECKED BY	SCALE	
AK	As Indicated	

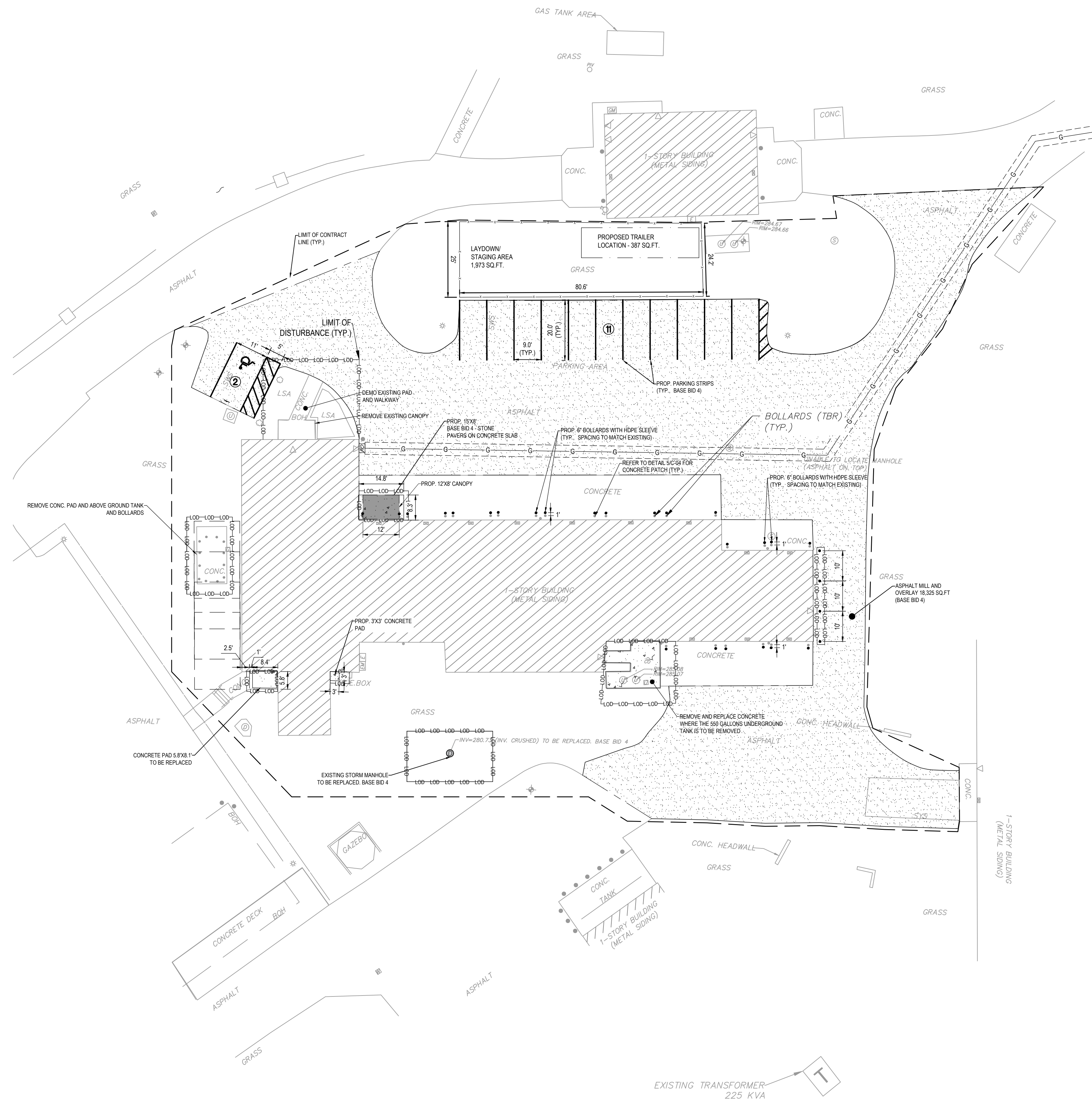
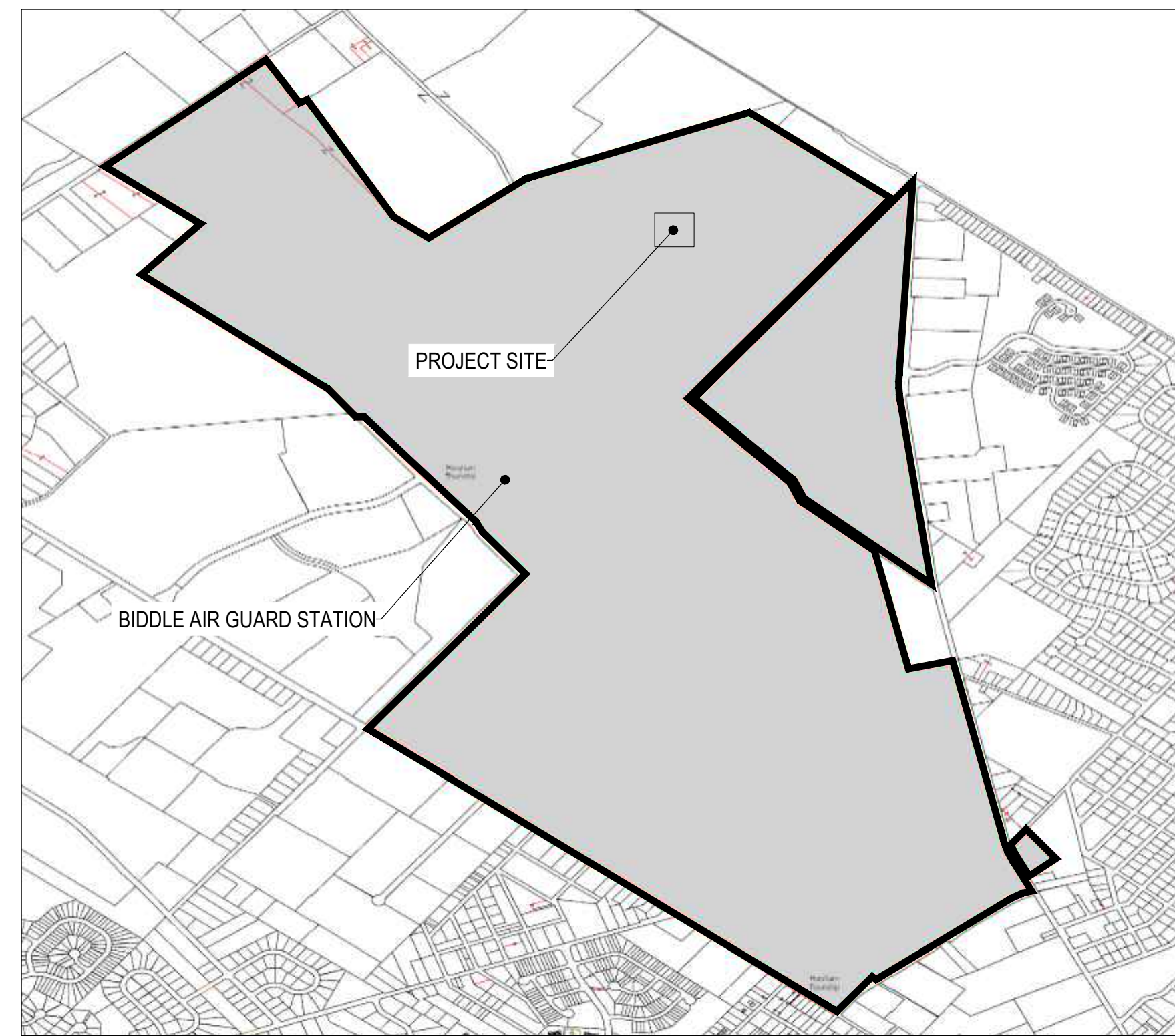


SURVEY NOTES:

- THE SURVEY IS BASED UPON PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:
 - "SITE PLAN - ELECTRICAL, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984.
 - "SITE PLAN & DETAILS, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984.
- TOPOGRAPHIC & UTILITY INFORMATION SHOWN BASED ON A FIELD SURVEY PERFORMED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES DURING AUGUST 2023.
- THE MERIDIAN IS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
- VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
- OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION OF ANY TYPE.
- BOUNDARY, WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.
- UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY UNDERGROUND SERVICES, INC.), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS, UNLESS SPECIFICALLY NOTED HERE-ON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON. PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.
- THIS PLAN IS NOT VALID UNLESS STAMPED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL OR DIGITAL SIGNED AND SEALED.

GENERAL NOTES:

- BUILDING 237 IS PART OF BIDDLE AIR GUARD STATION PROPERTY. THE PARCEL ID FOR THE PROPERTY IS 360004050009.
- THE TOTAL TRACT ACREAGE OF THE BIDDLE AIR GUARD STATION PER PROPERTY RECORD IS 1006.32 ACRES
- THE PROPOSED ACREAGE OF THE SITE IMPROVEMENT IS 0.0093 ACRES (404 SQFT)
- REMOVE EXISTING CONTAMINATED SOIL AND REPLACE WITH 1 CY OF NEW FILL.



LEGEND	
DEMO	
BUILDING OVERHANG	[Symbol]
CONCRETE PAD	[Symbol]
BOLLARD	[Symbol]

LEGEND	
EXISTING	
BUILDING	[Symbol]
BUILDING OVERHANG	[Symbol]
WALL	[Symbol]
BOLLARD	[Symbol]
FENCE	[Symbol]
PAVEMENT MARKING	[Symbol]
GUARD RAIL	[Symbol]
LIGHT	[Symbol]
MONITORING WELL	[Symbol]
GAS METER	[Symbol]
ELECTRIC MANHOLE	[Symbol]
STORM MANHOLE	[Symbol]
SANITARY MANHOLE	[Symbol]
ELECTRIC METER	[Symbol]
FIRE HYDRANT	[Symbol]
ELECTRIC METER	[Symbol]
SEWER	[Symbol]
DOOR	[Symbol]
GAS VALVE	[Symbol]
TREE/ BUSH	[Symbol]

LEGEND	
PROPOSED	
BUILDING CANOPY	[Symbol]
CONCRETE SIDEWALK	[Symbol]
SANITARY MANHOLE	[Symbol]
ASPHALT MILL & OVERLAY	[Symbol]
BOLLARD	[Symbol]
GAS LINE	[Symbol]
EDGE OF TRENCH	[Symbol]
LIMITS OF DISTURBANCE	[Symbol]
STAGING/ LAYDOWN AREA	[Symbol]
PROPOSED TRAILER	[Symbol]
LIMIT OF CONTRACT LINE	[Symbol]
PROJECT BOUNDARY LINE	[Symbol]

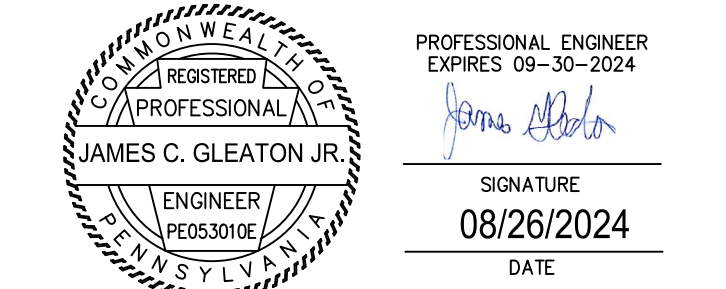
ASPHALT MILL AND OVERLAY GENERAL NOTES:

- HATCHED AREA = 18,325 SQ FT TO MILL & OVERLAY.
- PAINT & RE-STRIPE NEW PARKING LAYOUT.
- AREAS OF DISTURBED GROUND TO BE REGRADED WITH STORM DRAINAGE SLOPE MIN 2% TO MAINTAIN POSITIVE DRAINAGE.
- MATCH UP TO EXISTING PAVING.
- CONTRACTOR TO REMOVE EXISTING BOLLARDS, BACKFILL AND PATCH WITH CONCRETE.

JURISDICTION	# OF PARKING SPOTS	REQUIRED # OF HANDICAP PARKING SPOTS	STALL WIDTH	STALL LENGTH
HORSHAM TOWNSHIP	13	1	9 feet	20 feet

REV. SET	DESCRIPTION	DATE
08/26/2024	DESIGN DEVELOPMENT	01/26/2024
07/31/2024	CONSTRUCTION DOCUMENTS - REVISED	
04/15/2024	CONSTRUCTION DOCUMENTS	
03/27/2024	DESIGN DEVELOPMENT - REVISED	

RECORD REVISIONS
Construction Documents - August 26, 2024



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No:
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

SITE & DEMO PLAN

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY JYL	DATE 07/08/2024	DRAWING No. C-01
	CHECKED BY JG	SCALE AS NOTED	



PENNSYLVANIA ACT 287 REQUIRES NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

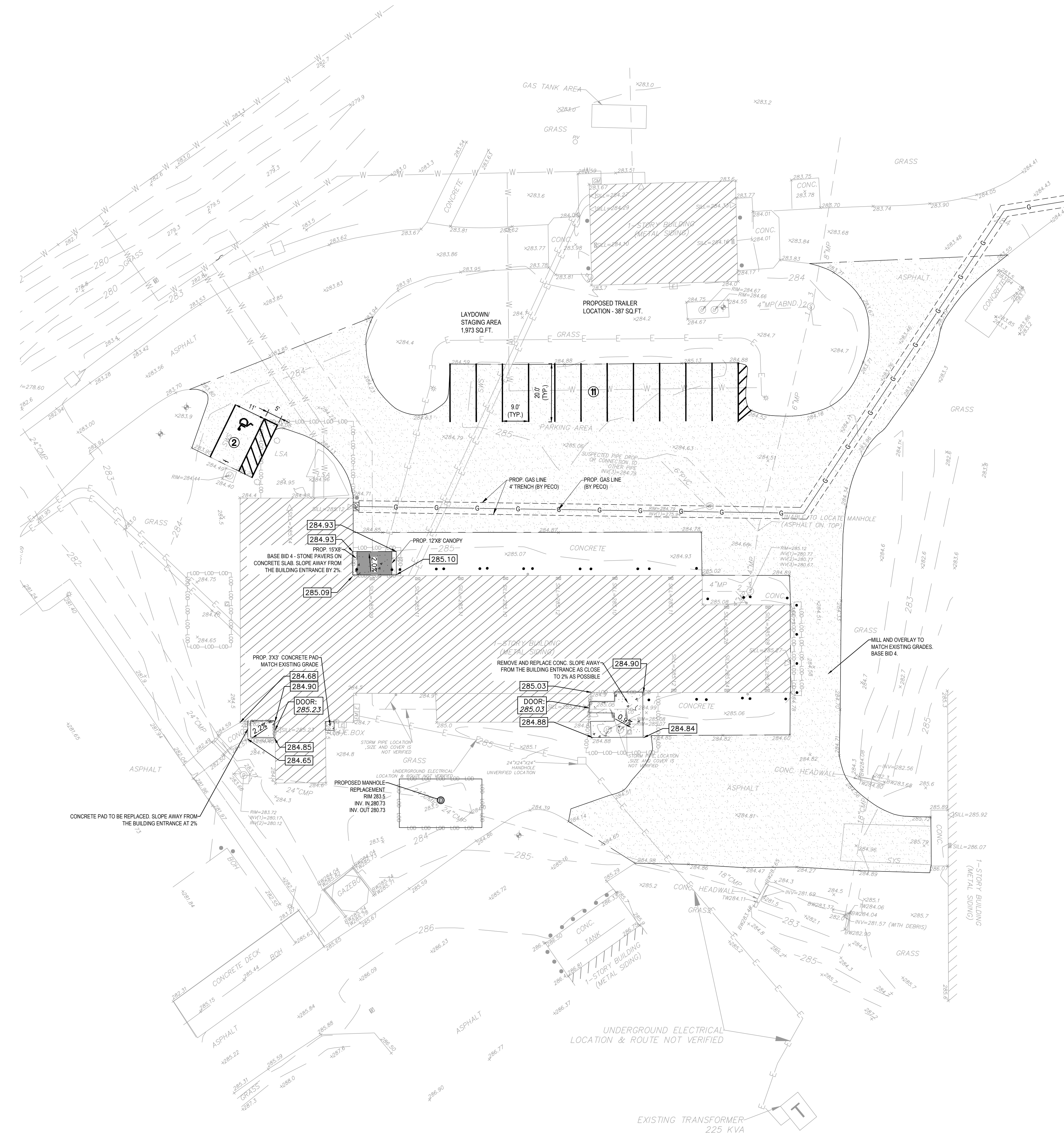
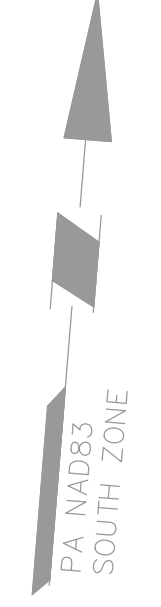
GRAPHIC SCALE
0 20 40 60
(IN FEET)
1 inch = 20 ft.

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY



LEGEND	
EXISTING	
BUILDING	
BUILDING OVERHANG	
WALL	
BOLLARD	
FENCE	
PAVEMENT MARKING	
GUARD RAIL	
LIGHT	
MONITORING WELL	
GAS METER	
ELECTRIC MANHOLE	
STORM MANHOLE	
SANITARY MANHOLE	
ELECTRIC METER	
FIRE HYDRANT	
ELECTRIC METER	
GAS	
ELECTRIC	
TELEPHONE	
WATER	
SEWER	
DOOR	
GAS VALVE	
TREE/BUSH	
SPOT ELEVATION	
CONTOUR	

LEGEND	
PROPOSED	
BUILDING CANOPY	
CONCRETE SIDEWALK	
SANITARY MANHOLE	
FILTER SOCK	
GAS	
GAS METER	

UTILITY USER LIST ACT NUMBER 287 OF 1974 AS AMENDED	
<p>IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 (AS AMENDED) AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO THE START OF CONSTRUCTION. ADDITIONAL TELECOMMUNICATIONS/FIBER OR OTHER UTILITY PROVIDERS (LISTED BELOW) MAY HAVE FACILITIES WITHIN RENTED, DUCTS AND MAY OR MAY NOT SHOW UP ON THE ONE CALL LIST. IN ADDITION, IF THERE ARE RESPONSES SHOWN AS "CLEAR-NO FACILITIES" TO A ONE CALL REQUEST, THERE STILL MAY BE A CONFLICT.</p>	
<p>PENNSYLVANIA ONE CALL: 1-800-242-1776 SERIAL NO. 2004143927</p>	
<p>HORSHAM TOWNSHIP 1025 HORSHAM ROAD HORSHAM, PA 19044 CONTACT: JOHN RAWLUK PHONE: (215) 643-3131 FAX: (215) 643-0448 EMAIL: JRAWLUK@HORSHAM.ORG</p>	<p>HORSHAM WATER AND SEWER AUTHORITY - MAIN OFFICE 617 HORSHAM ROAD HORSHAM, PA 19044 CONTACT: MICHAEL HEALEY PHONE: (215) 672-8011 EMAIL: CONTACT@HORSHAMWATER-SEWER.COM</p>
<p>PECO ENERGY C/O USIC 450 S HENDERSON RD SUITE B KING OF PRUSSIA, PA 19066 CONTACT: NIKKIA SIMPKINS EMAIL: NIKKIASIMPKINS@USICLLC.COM</p>	<p>TRANSCONTINENTAL GAS/ WILLIAMS GAS 99 FARMER RD PRINCETON, NJ 08540 CONTACT: JUSTIN ADAMS EMAIL: JUSTIN.ADAMS@WILLIAMS.COM</p>
<p>COMCAST 4400 WAYNE AVENUE PHILADELPHIA, PA 19140 CONTACT: ROBERT HARVEY EMAIL: BOB_HARVEY@CABLE.COMCAST.COM 1 APOLLO ROAD PLYMOUTH MEETING, PA 19062 CONTACT: TOM DEMSEY</p>	<p>VERIZON PENNSYLVANIA LLC 1350 VIRGINIA DR FORT WASHINGTON, PA 19034 CONTACT: VICTOR WOOD EMAIL: VICTOR.S.WOOD@BONE.VERIZON.COM</p>

REV. SET	REVISION
08/26/2024	DESIGN DEVELOPMENT 01/26/2024
07/31/2024	CONSTRUCTION DOCUMENTS - REVISED
04/15/2024	CONSTRUCTION DOCUMENTS
03/27/2024	DESIGN DEVELOPMENT - REVISED

RECORD REVISIONS
Construction Documents - August 26, 2024

PROFESSIONAL ENGINEER
EXPIRES 09-30-2024
SIGNATURE: *James C. Gleaton Jr.*
DATE: 08/26/2024

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No:
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

GRADING & UTILITY



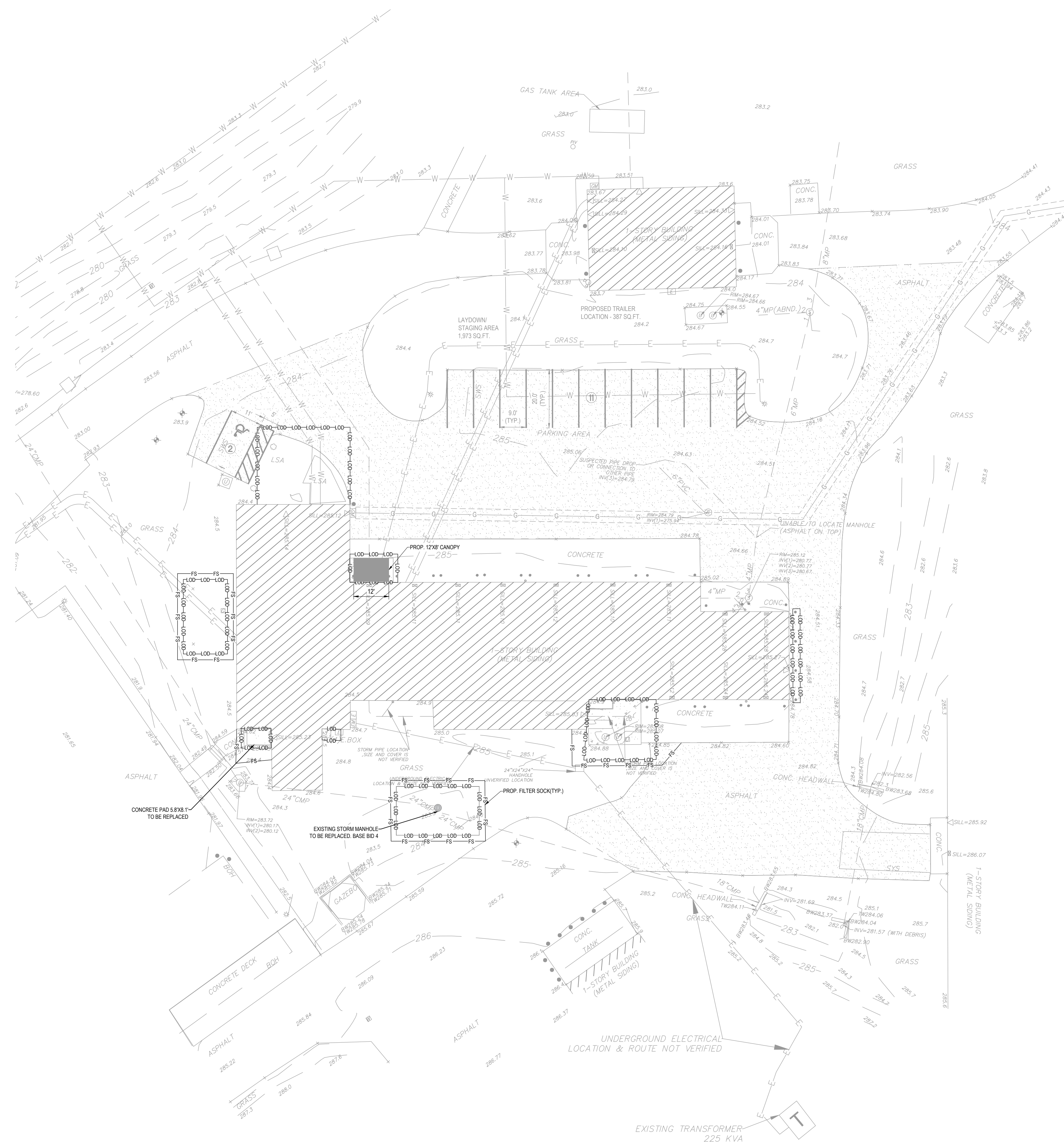
GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DATE	SCALE
JYL	07/08/2024	AS NOTED
JC		

DRAWING No: C-02

PA 140083
SOUTH ZONE



LEGEND	
EXISTING	
BUILDING	
BUILDING OVERHANG	
WALL	
BOLLARD	
FENCE	
PAVEMENT MARKING	
GUARD RAIL	
LIGHT	
MONITORING WELL	
GAS METER	
ELECTRIC MANHOLE	
STORM MANHOLE	
SANITARY MANHOLE	
ELECTRIC METER	
FIRE HYDRANT	
ELECTRIC METER	
GAS	
ELECTRIC	
TELEPHONE	
WATER	
SEWER	
DOOR	
GAS VALVE	
TREE/BUSH	
SPOT ELEVATION	0.05
CONTOUR	285

LEGEND	
PROPOSED	
BUILDING CANOPY	
CONCRETE SIDEWALK	
SANITARY MANHOLE	
FILTER SOCK	
GAS	
GAS METER	

REV	DESCRIPTION	DATE
1	DESIGN DEVELOPMENT	01/26/2024
2	CONSTRUCTION DOCUMENTS	07/31/2024
3	CONSTRUCTION DOCUMENTS - REVISED	07/31/2024
4	CONSTRUCTION DOCUMENTS	07/15/2024
5	DESIGN DEVELOPMENT - REVISED	02/27/2024

RECORD REVISIONS
Construction Documents - August 26, 2024

PROFESSIONAL ENGINEER
EXPIRES 09-30-2024
JAMES C. GLEATON JR.
ENGINEER
PROFESSIONAL
PENNSYLVANIA
SIGNATURE
08/26/2024
DATE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

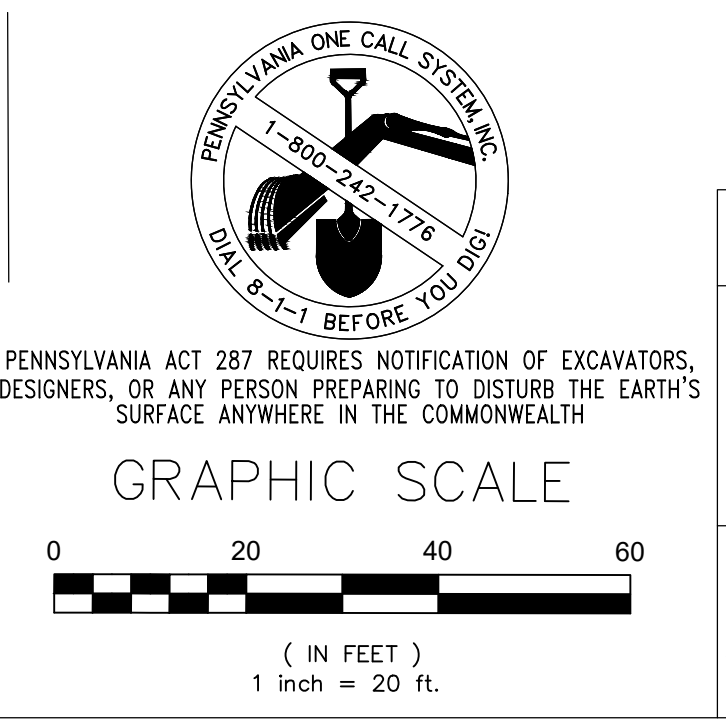
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

EROSION CONTROL

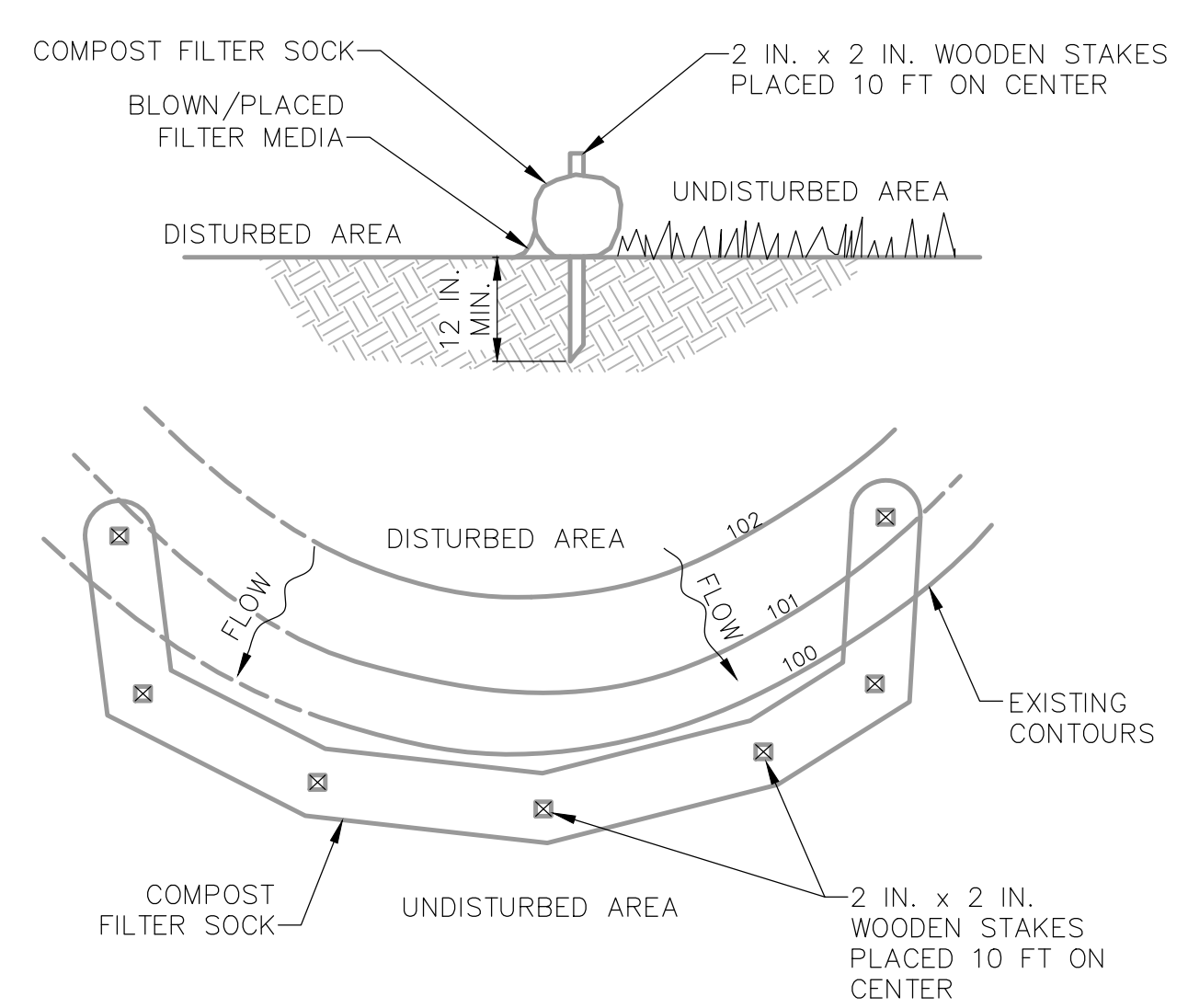
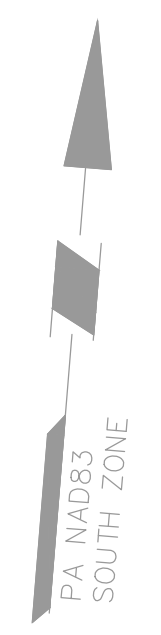
DATE	BY	REVISION
07/08/2024	JYL	AS NOTED

VERIFY SCALE
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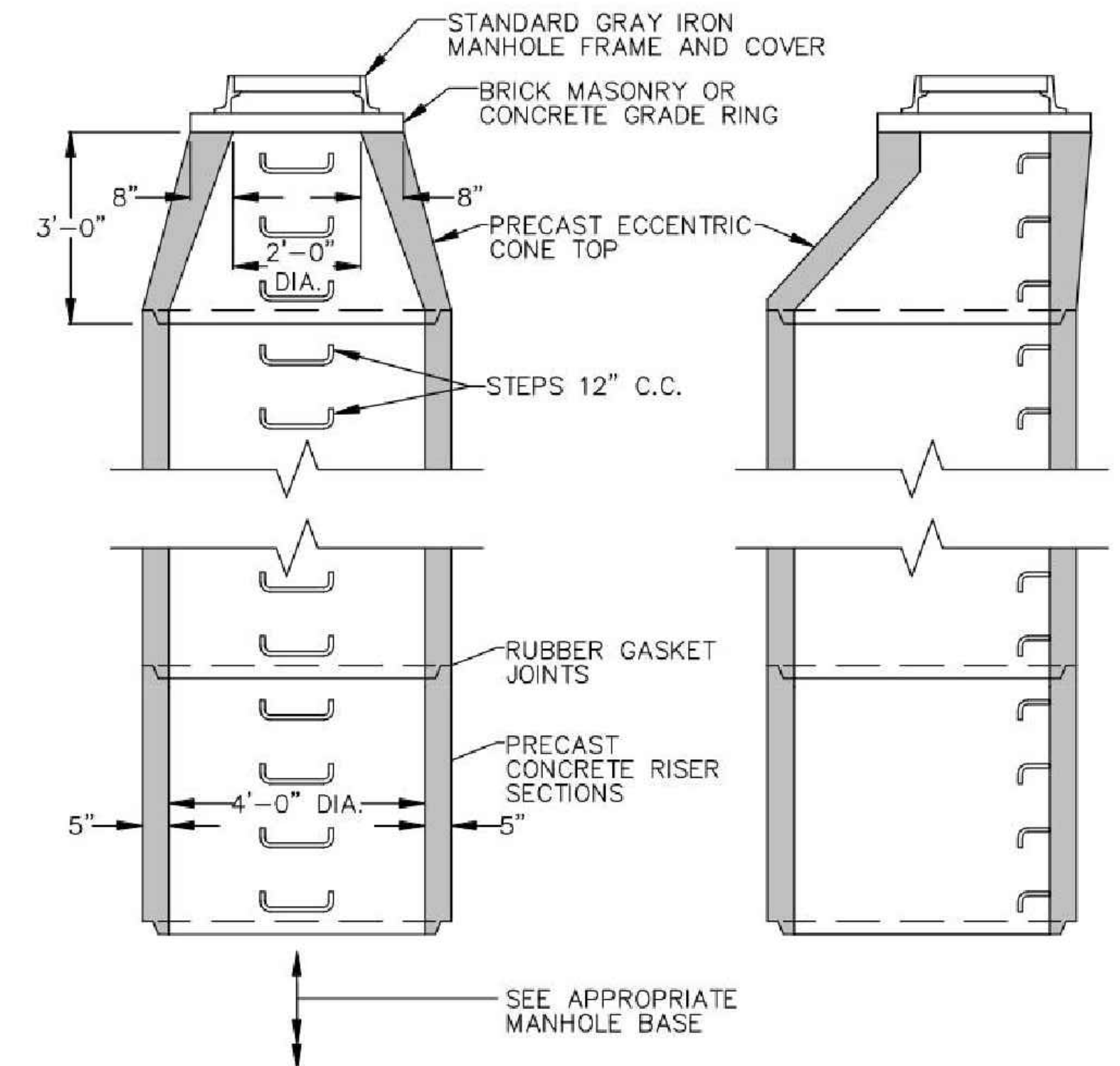
PENNSYLVANIA ACT 287 REQUIRES NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.
PENNSYLVANIA ONE CALL SYSTEM
1-800-4-A-ROOT
CALL 8-1-1 BEFORE YOU DIG

C-03

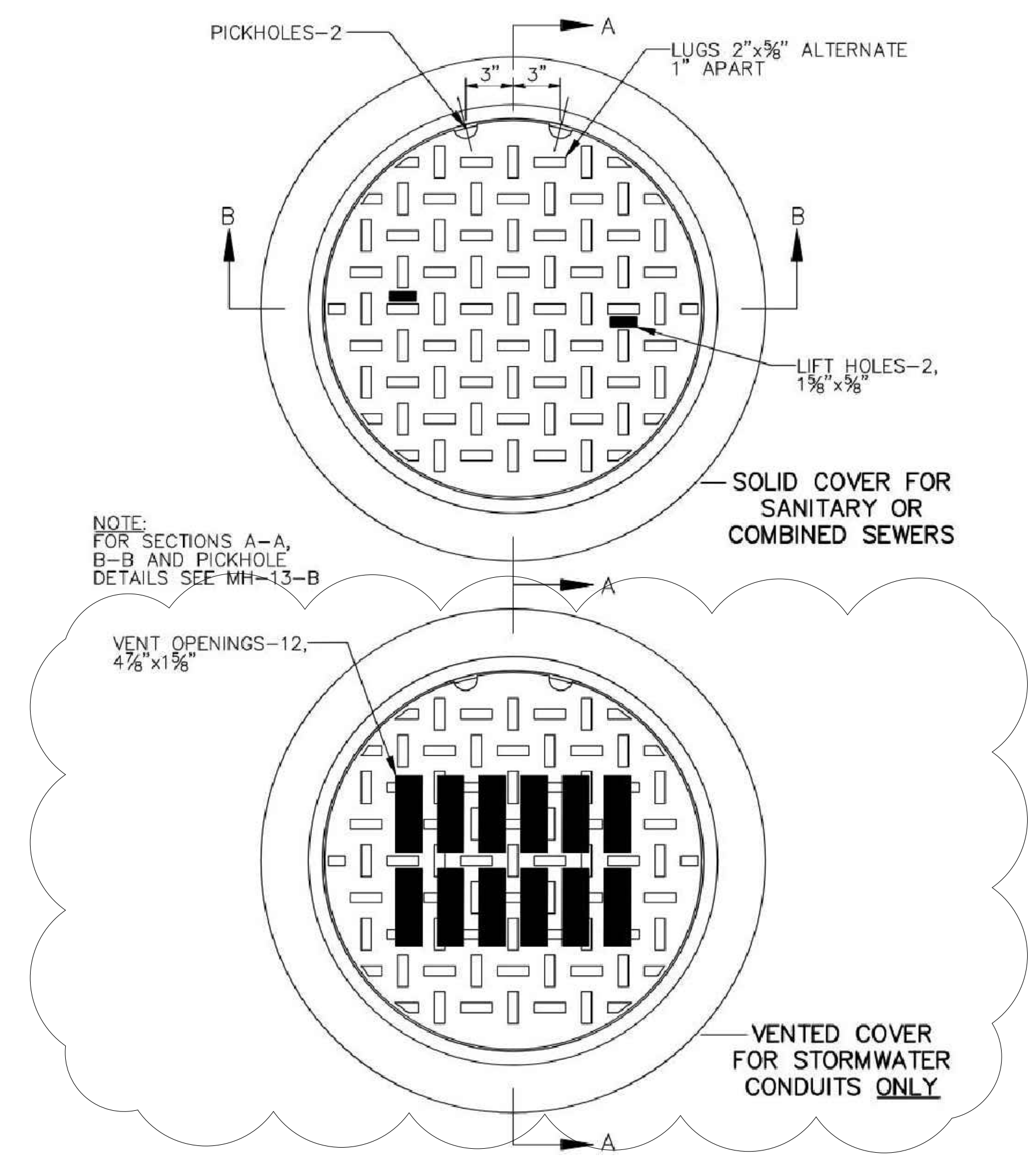


NOTES:
 SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
 COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
 TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
 ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
 BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

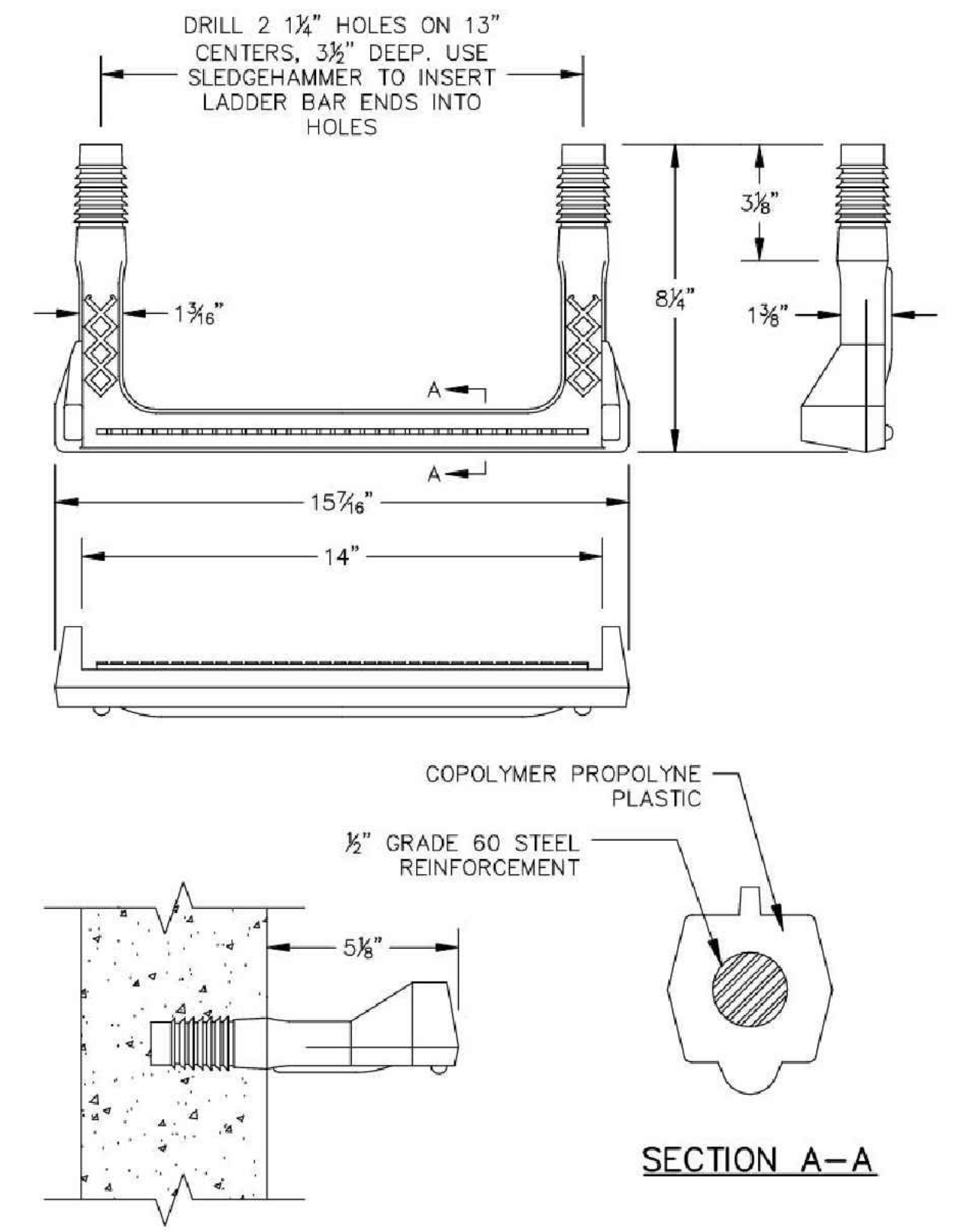
1 TYPICAL COMPOST FILTER SOCK DEVICE ON SOIL
 C-04 NTS



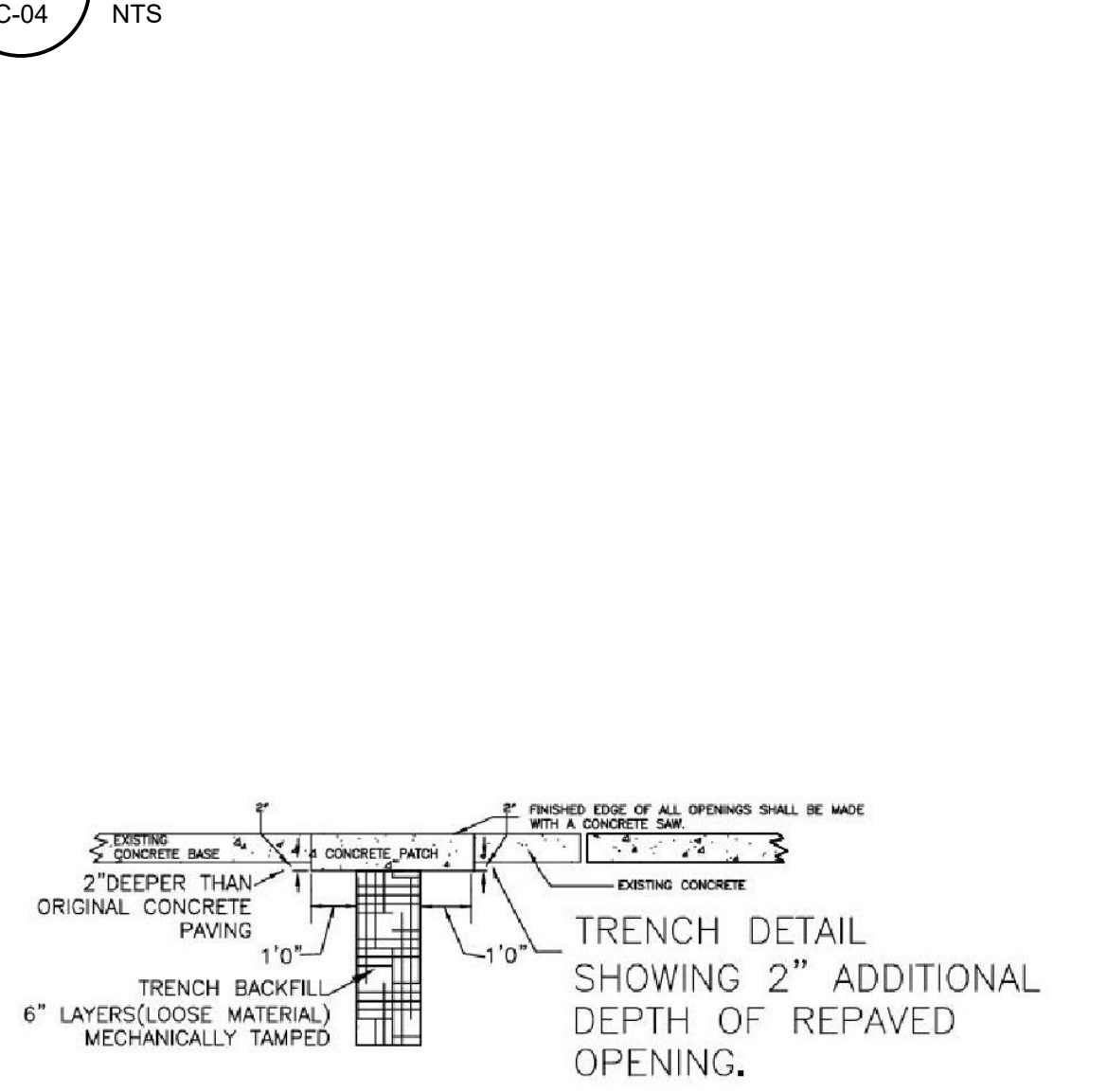
2 TYPICAL PRECAST CONCRETE MANHOLE RISER AND CONE
 C-04 NTS



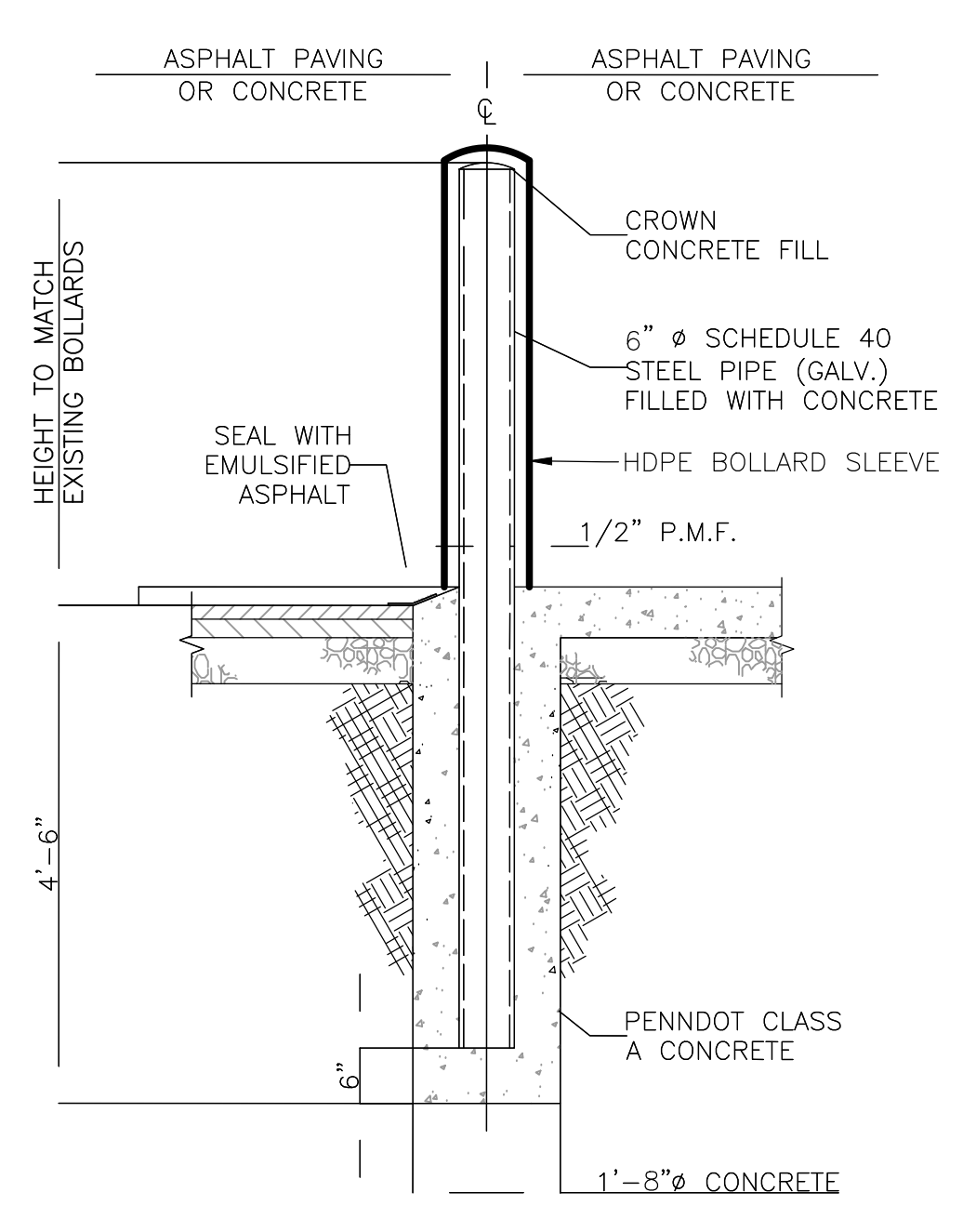
3 GRAY IRON MANHOLE FRAME AND COVERS
 C-04 NTS



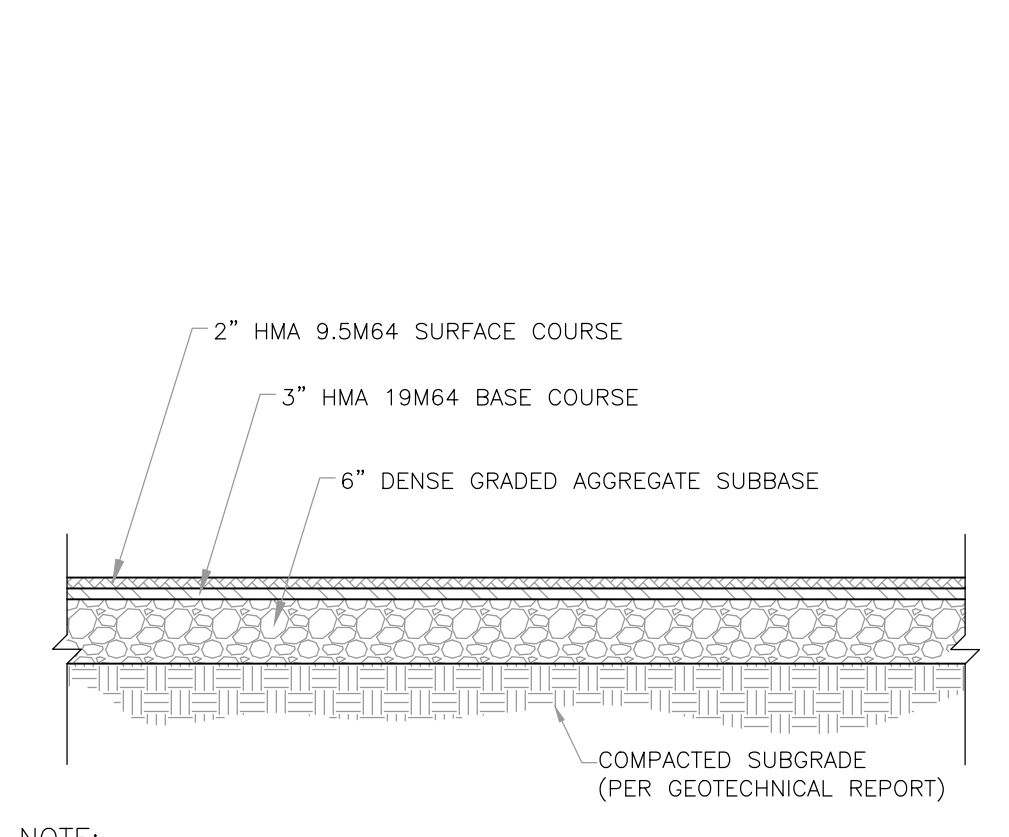
4 TYPICAL MANHOLE STEPS
 C-04 NTS



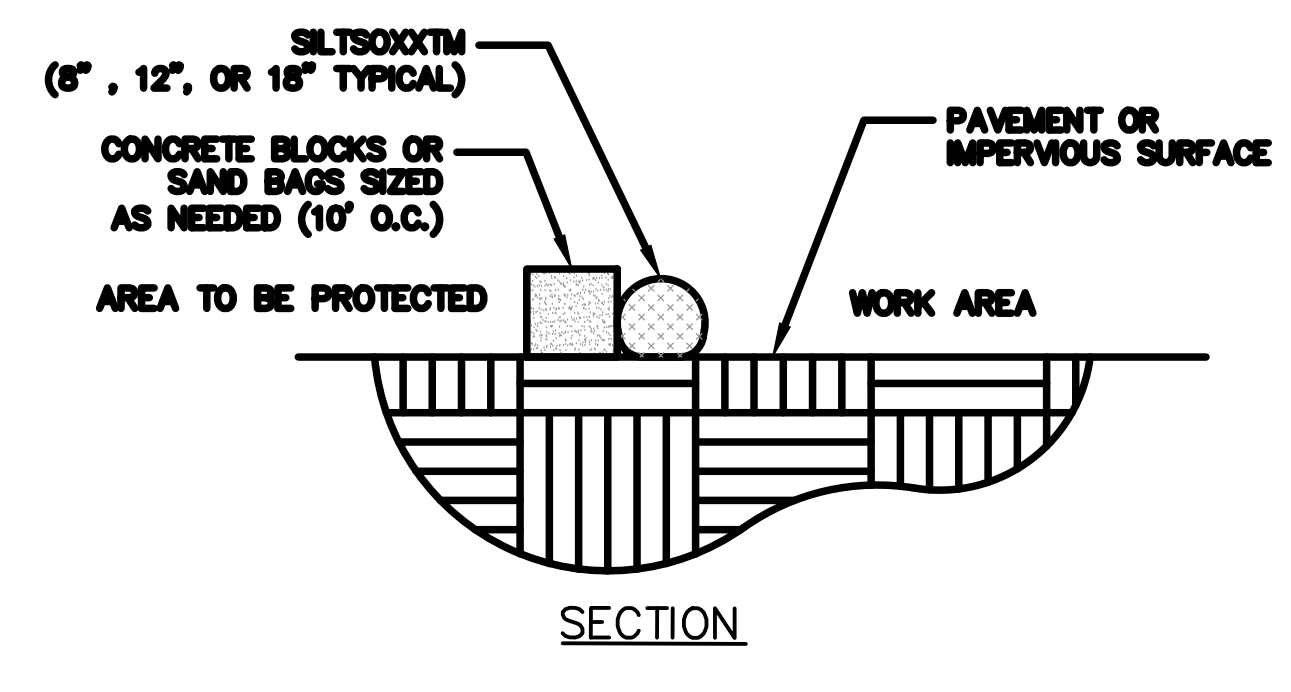
5 TYPICAL RESTORATION CONCRETE ROADWAY
 C-04 NTS



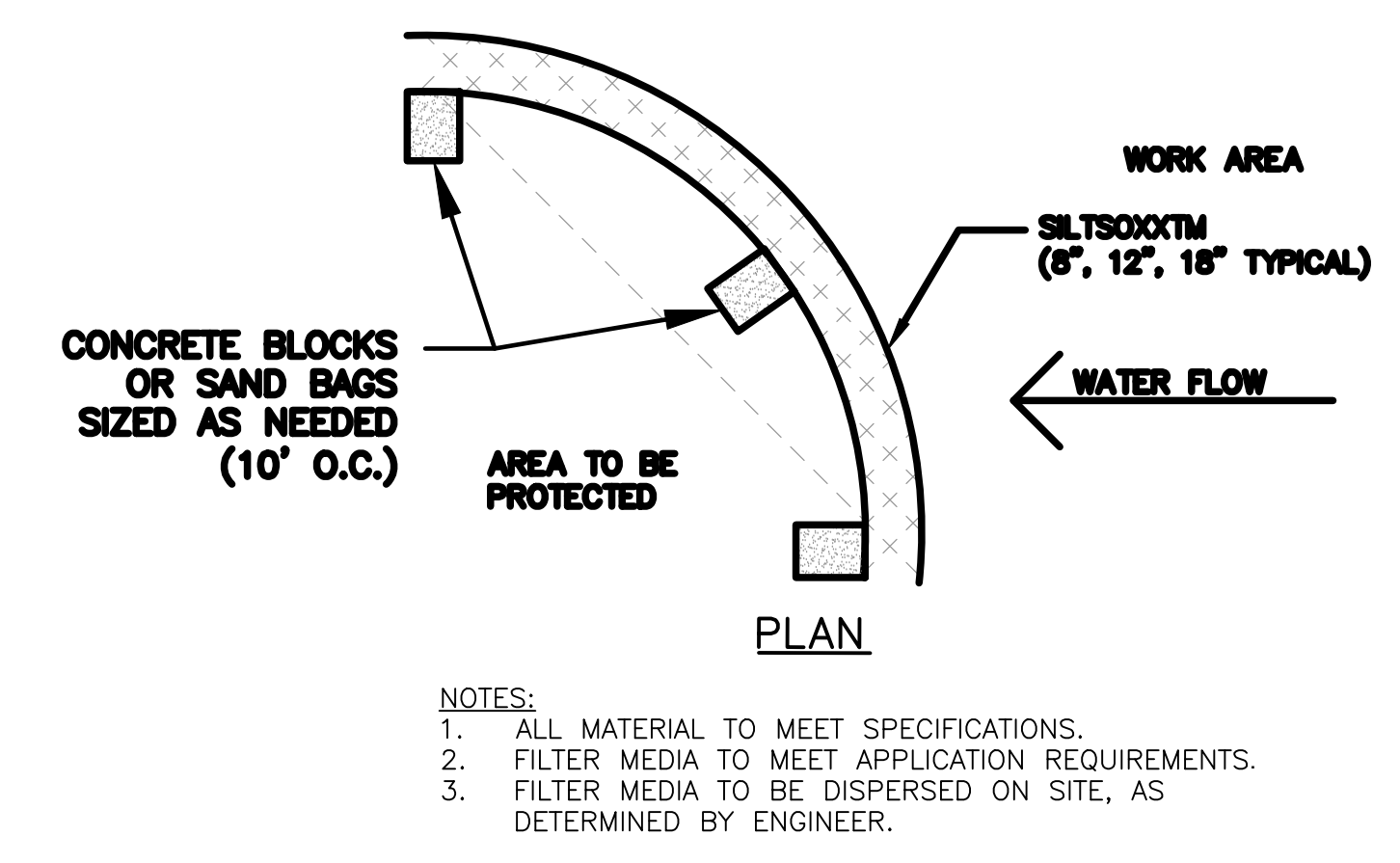
6 TYPICAL BOLLARD DETAIL
 C-04 NTS



7 TYPICAL MILL AND OVERLAY
 C-04 NTS



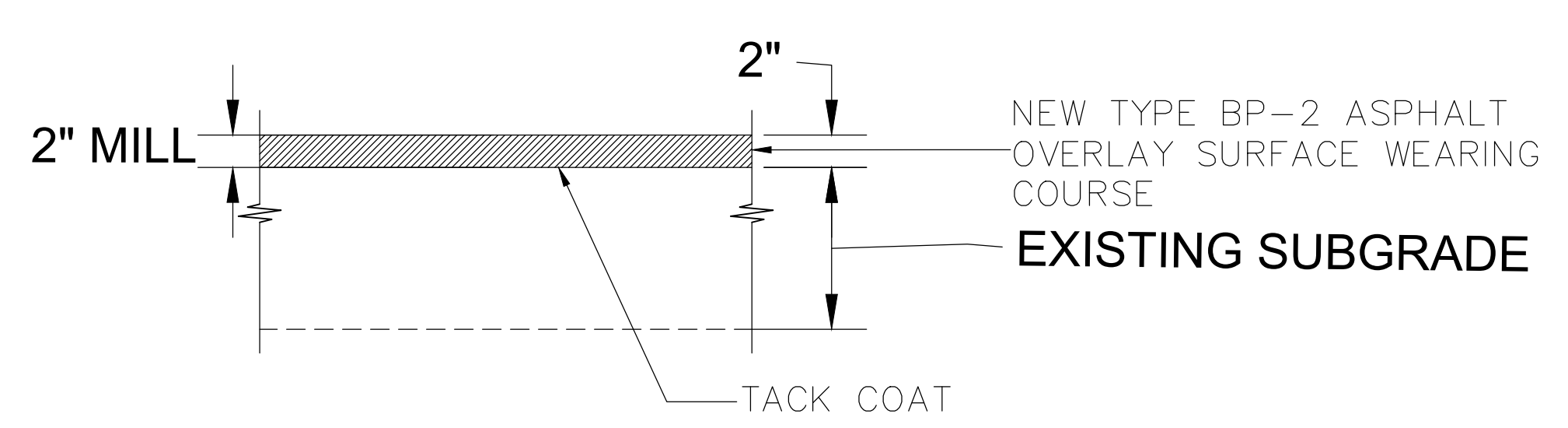
8 TYPICAL ASPHALT PAVEMENT DETAIL
 C-04 SCALE: NOT TO SCALE



NOTES:
 1. ALL MATERIAL TO MEET SPECIFICATIONS.
 2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
 3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

9 TYPICAL COMPOST SOCK SEDIMENT CONTROL DEVICE
 C-04 NTS

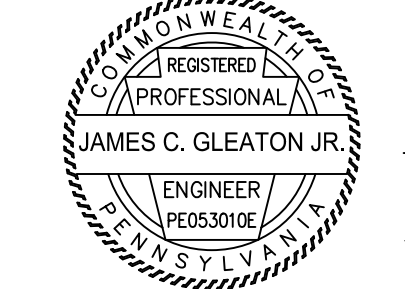
NOTES:
 1. PREPARE AND PRIME GALVANIZED BOLLARDS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION OR APPROVED EQUAL.
 2. PREPARE AND APPLY EXTERIOR PAINT IN ACCORDANCE WITH MANUFACTURER'S EXTERIOR PAINTING SPECIFICATION OR APPROVED EQUAL, COLOR TO BE DETERMINED BY OWNER.



10 TYPICAL MILL AND OVERLAY
 C-04 NTS

REV SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	REVISED
07/31/2024	
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT - REVISED	
03/27/2024	

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PROFESSIONAL ENGINEER
 EXPRES 09-26-2024
 SIGNATURE
 08/26/2024
 DATE

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

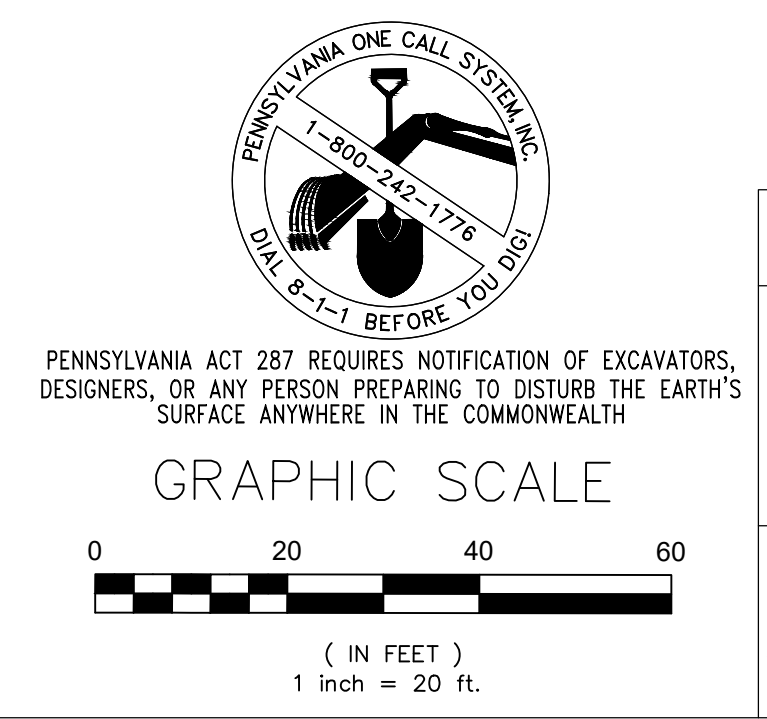
D.G.S. PROJECT No:
 DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

CIVIL DETAILS

VERIFY SCALE
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 0 1
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DRAWN BY	DATE	DRAWING No.
JYL	07/08/2024	C-04
CHECKED BY	SCALE	
JG	AS NOTED	



SPECIAL INSPECTION TABLES

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS			
GENERAL The Owner will engage and employ a qualified special inspection agency or agencies to conduct special inspections of structural work as required by Chapter 17 of the 2015 International Building Code and as delineated below. Agencies that are considered qualified and acceptable to act as special inspectors will be those acceptable to the building official and/or the owner.			
SPECIAL INSPECTION REPORT REQUIREMENTS Special inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the Building Official, Owner, Architect, Structural Engineer, and Contractor. Reports shall indicate that the structural work inspected was done in conformance to approved Contract Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official, Owner, Architect, and Structural Engineer prior to the completion of that phase of work. A final report of inspections documenting required special inspections of structural work and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the Owner and the Building Official prior to the start of work.			
REQUIRED SPECIAL INSPECTIONS The following types of structural work require special inspections. Refer to individual Specification Sections for specific testing and inspecting requirements. Continuous inspection is the full-time observation of work by a qualified special inspector who is present in the area where the work is being performed. Periodic special inspection is the part-time or intermittent observation of work by a qualified special inspector who is present in the area where the work has been or is being performed and at the completion of the work.			

SOILS			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
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 materials, densities and lift thicknesses during placement and compaction of compacted fill.	X		
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		X	
Remark Notes: 1. Reference the approved geotechnical report as noted in Structural General Notes and specifications.			

MICROPILE (HELICAL) PILE FOUNDATION			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Observe installation operations and record the installation equipment used, pile locations, pile dimensions, tip elevations, final depth, and final installation torque.	X		
2. Verify that correct micropile material and sizes; load transfer brackets or devices; and load transfer bracket or device fasteners are used.		X	
3. Load transfer bracket and anchors.		X	
4. Verify compliance with the Geotechnical Report and construction documents.	X		
Remark Notes: 1. Reference the approved geotechnical report as noted in Structural General Notes and specifications.			

SHOTCRETE WALLS			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of steel reinforcement, including size, quantity, placement and details around openings in wall.		X	
2. Verify that formwork is plum and properly braced or tied together to maintain position, shape, location and dimensions.		X	
3. Verify that concrete surface to receive shotcrete has been thoroughly cleaned and roughened. (Bonding agents are not allowed)		X	
4. Verify that nozzleman is ACI certified for the application used. (dry mix, wet mix, vertical, or overhead)	X		
5. Inspection of shotcrete placement for proper application techniques.	X		
6. Verify rebound was removed prior to placing initial or succeeding layer of shotcrete.		X	
7. Verify that wall thickness complies with approved submittals.	X		
8. Perform additional inspections of concrete per "Concrete Construction" table of Special Inspection Tables.			
9. Perform additional inspections and test in accordance with the construction documents.			Frequency per construction documents

SOIL NAIL ANCHOR for SHOTCRETE WALL			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspect tieback/soil nail installation to verify size, anchor length, number of strands, nail size and coating, elevation, and angle of installation as applicable.	X		
2. Inspect grouting of tiebacks/soil nails.	X		
3. Inspect length of bonded zone.	X		
4. Grouting samples.		X	
5. Ensure that all hydraulic jacks used to preform anchor tensioning have current calibration and the gauge is calibrated to appropriate increments.		X	
6. Inspect contractor's proof test or performance test tieback/soil nail.		X	
7. Verify that lock off loads are consistent with approved plans and specifications.		X	
8. Review all contractor's data regarding installation and testing of tieback anchors/soil nails.		X	

CONCRETE CONSTRUCTION			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of steel reinforcement, including size, quantity and placement.		X	
2. Inspection of anchor rods, headed bolts, headed studs, shear stud shear reinforcing and other embedded items prior to and during placement of concrete.		X	
3. Inspection of anchors installed in hardened concrete.			See "Post Installed Anchors" table
4. Verify use of required design mixture.		X	
5. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled and test specimens for strength tests.	X		Frequency of test per specifications.
6. Inspection of concrete placement, including conveying and depositing.	X		
7. Inspection of curing procedures and maintenance of curing temperatures.		X	
8. Verification of concrete strength before removal shores and forms from beams and slabs.		X	
9. Verification that approved shop drawings are being used on site.		X	
Remark Notes: 1. Reference ACI-318 Building Code Requirements for Reinforced Concrete.			

POST INSTALLED ANCHORS TO CONCRETE AND MASONRY			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Use of proper anchor system and manufacturer.		X	
2. Review of installer's qualifications and verification of on-site installation training, including certification by anchor manufacturer.		X	* See Note 1
3. Anchor installation process as noted in general notes and scanning is used to locate and miss existing concrete reinforcing & post-tensioning strands.			* See Note 2
4. Verification of supporting material's condition, and scanning is used to locate and miss existing concrete reinforcing and post-tensioning strands.		X	
5. Proof testing as outlined in general notes.		X	
* Remark Notes: 1. Inspector shall be familiar with anchor manufacturer's written installation procedure and ESR report. 2. Refer to manufacturer's ESR report for type of inspection periodic vs. continuous.			

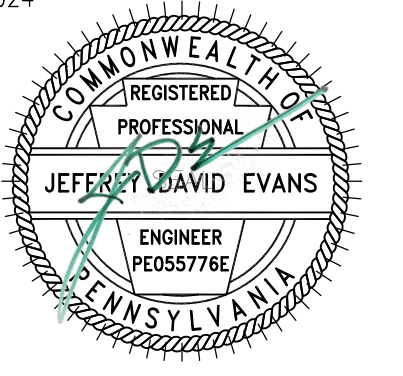
MASONRY CONSTRUCTION (LEVEL B QUALITY ASSURANCE)			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.		X	
2. Verification of compressive strength of masonry prior to construction and for every 5,000 square feet during construction.		X	
3. Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site.		X	
4. As masonry construction begins, verify that the following are in compliance: a. Proportions of site-prepared mortar and grout. b. Placement of masonry units and construction of mortar joints. c. Location of reinforcement and control joints.		X	
5. Prior to grouting, verify that the following are in compliance: a. Grout space. b. Grade, type and size of reinforcement and anchor bolts. c. Placement of reinforcement. d. Proportions of site-prepared grout. e. Construction of mortar joints.	X		
6. Verify during construction: a. Size and location of structural elements. b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction. c. Welding of reinforcement (if permitted). d. Preparation, construction and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F). e. Placement of grout.	X		
7. Preparation of any required grout specimens and/or prisms shall be observed.	X		

STEEL CONSTRUCTION			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Material verification of high-strength bolts, nuts, and washers: a. Identification markings to conform to ASTM standards specified in the approved construction documents. b. Manufacturer's certificate of compliance required.		X	
2. Inspection of high-strength bolting: a. Snug-tight joints. b. Thru bolted joints—using scanning to locate and miss existing concrete reinforcing & post-tensioning strands. c. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation. d. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.		X	
3. Material verification of structural steel and cold-formed steel deck: a. For structural steel, identification markings to conform to AISC 360. b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents. c. Manufacturer's certified test reports.		X	
4. Material verification of weld filler materials: a. Identification markings to conform to AWS specification in the approved construction documents. b. Manufacturer's certificate of compliance required.		X	
5. Inspection of structural steel welding and cold-formed steel deck welding or fastening: a. Complete and partial joint penetration groove welds. b. Multi-pass fillet welds. c. Single-pass fillet welds greater than 5/16 inches thick. d. Plug and slot welds. e. Single-pass fillet welds less than or equal to 5/16 inches thick. f. Floor and roof deck attachment and side lap fasteners. g. Use of qualified welders for Demand Critical Welds. h. Welding Procedures Specification (WPS) followed for Demand Critical Welds. i. Welding techniques for Demand Critical Welds. j. Protected zones.	X		Verify that no holes or unapproved weld attachments are made within the protected zone.
6. Inspection of steel frame joint details such as bracing and stiffening, member locations, and application of joint details at each connection for compliance with approved construction documents.		X	
7. Inspection of installation of open web steel joists: a. End connections - welding or bolting. b. Bridging - horizontal or diagonal. 1. Standard bridging. 2. Bridging that differs from the SJJ specifications listed in IBC Chapter 22.		X	Reference SJJ specification Reference SJJ specification
8. Verification that approved shop drawings are being used on site.		X	
Remark Notes: 1. Reference specification AISC 360 for steel elements in addition to any specifications as identified by IBC Chapter 22.			

TILT-UP CONCRETE CONSTRUCTION			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Review plant operations and quality control procedures.		X	
2. Inspect concrete batching operations and verify compliance with approved mix design.		X	
3. Inspect formwork for shape, location and dimensions of concrete members formed.		X	
4. Inspection of steel reinforcement, including size, spacing, quantity, placement and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials.		X	
5. Inspect anchors and embeds cast in tilt-up concrete and verify embedment lengths.		X	
6. Verify use of required design mixture.		X	
7. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests.	X		Frequency of test per specifications.
8. Inspection of concrete placement, including conveying and depositing.	X		
9. Inspecting of curing procedures and maintenance of curing temperatures.		X	
10. Verification of concrete strength before removal of shores and forms from beams and slabs.		X	
11. Inspect erection of tilt-up concrete members including welded connections, placement of bearing pads, placement of expansion joint materials, and placement of joint sealants.		X	
12. Inspection of anchors installed in hardened concrete.		X	See "Post Installed Anchors" table
13. Verification that approved shop drawings are being used on site.		X	
14. Inspection of anchor connection between tilt-up elements and foundation system on site.		X	
15. Inspection of anchor connections between tilt-up elements.		X	
Remark Notes: 1. Reference ACI-318 Building Code Requirements for Reinforced Concrete.			

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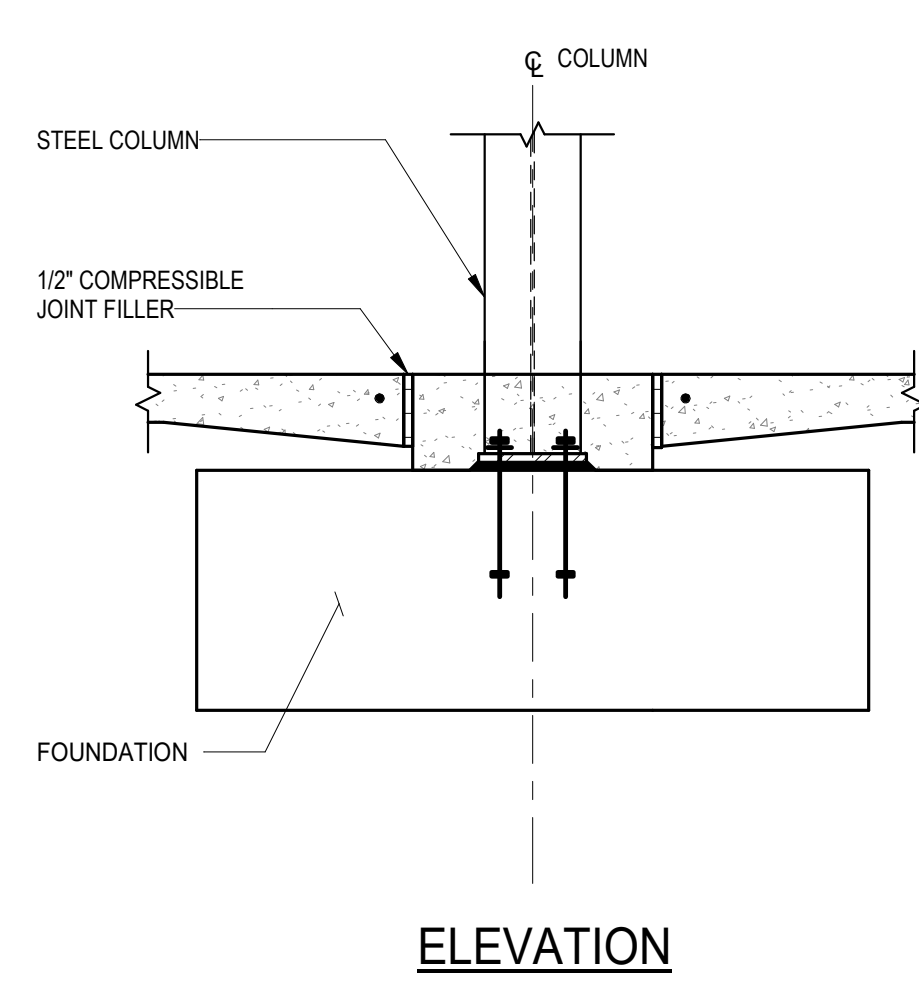
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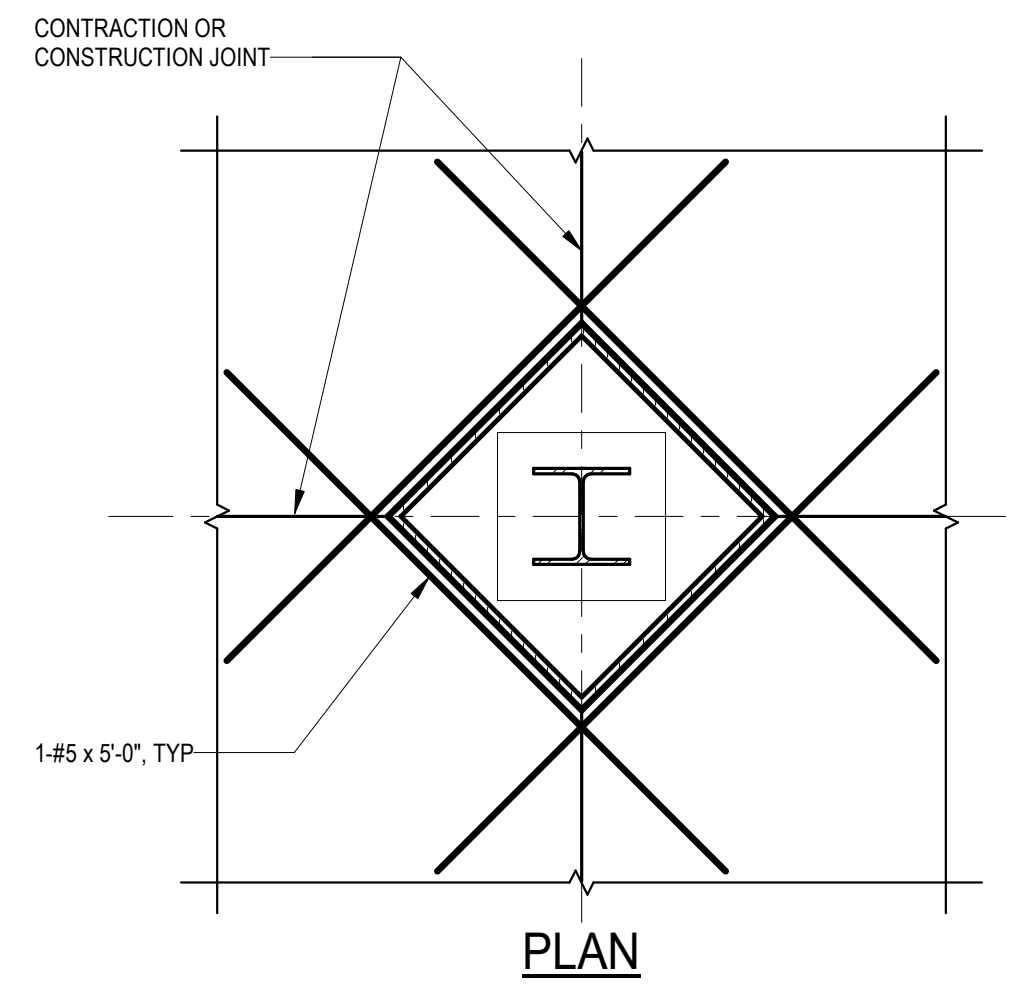
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

VERIFY SCALE
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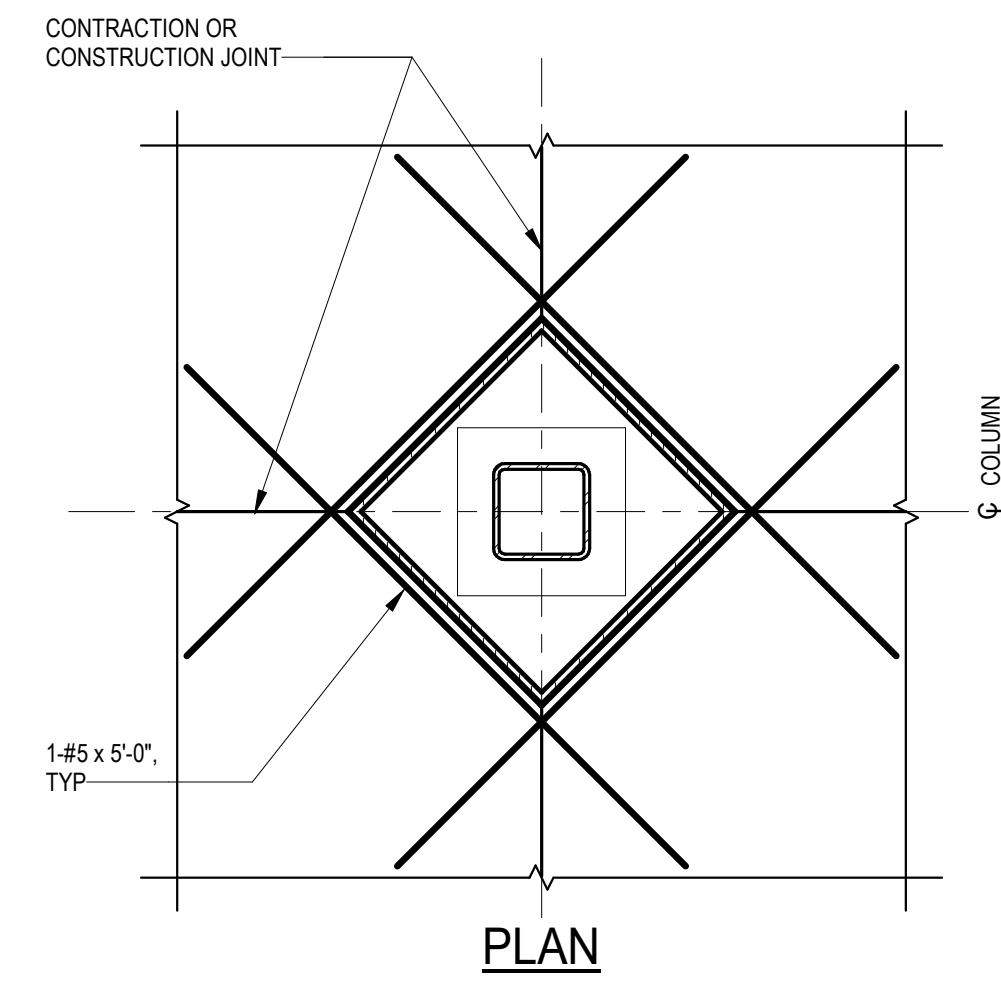
INSPECTION TABLES
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.
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DATE: 04/15/2024
CHECKED BY: JE
SCALE: AS NOTED
DRAWING No.: S-0.02



ELEVATION



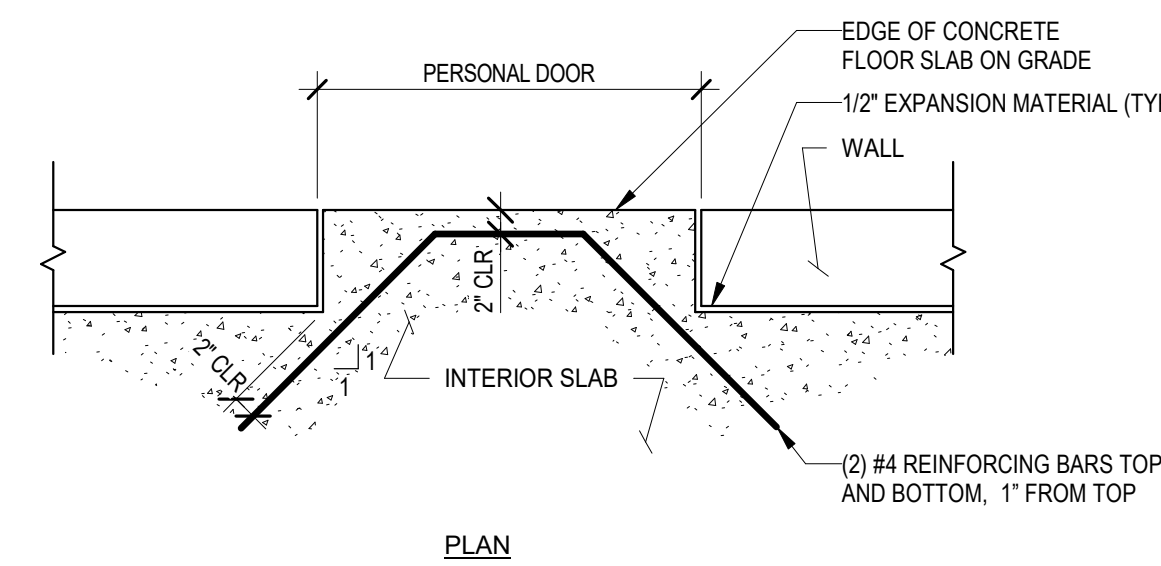
PLAN



PLAN

1 TYPICAL ISOLATION JOINT DETAIL (STEEL COLUMN)

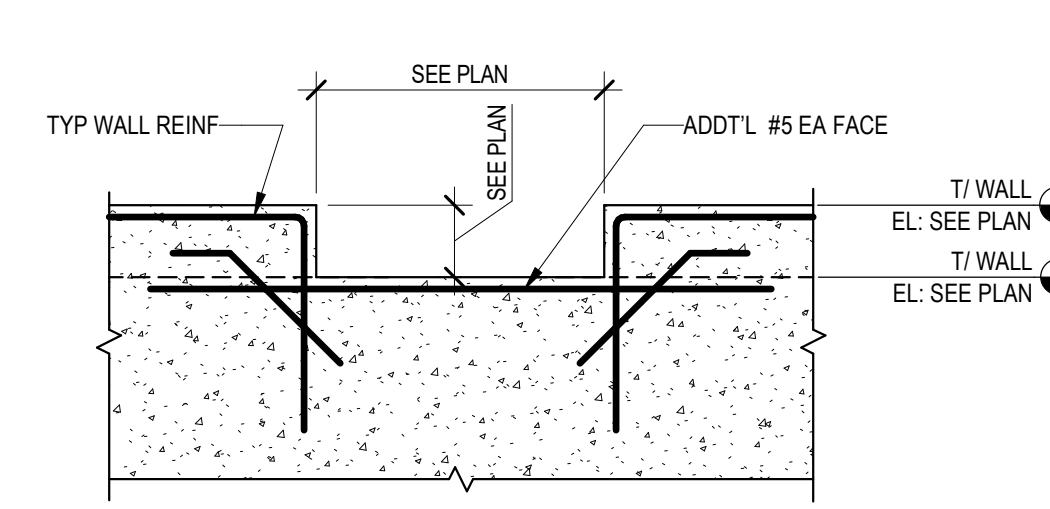
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PLAN

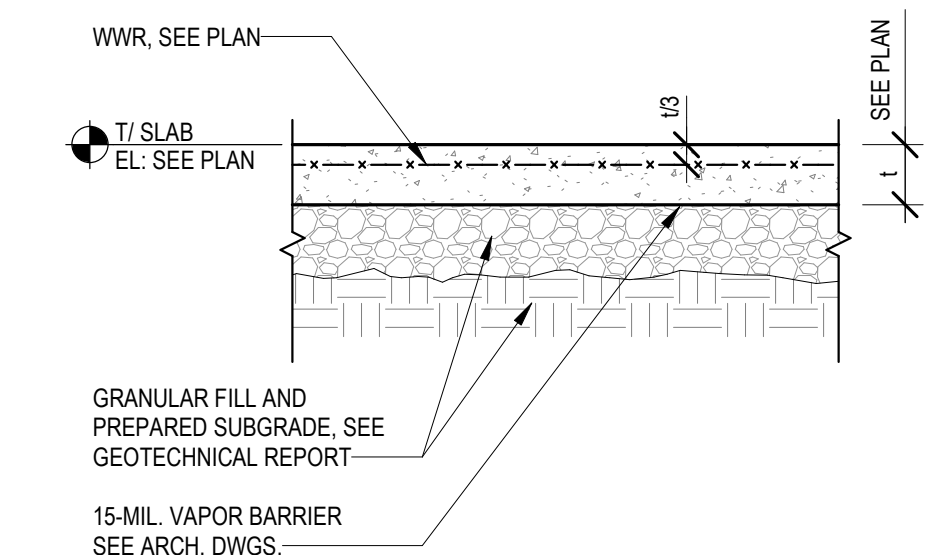
2 TYPICAL REINFORCEMENT AT ENTRANCES

Scale: NTS



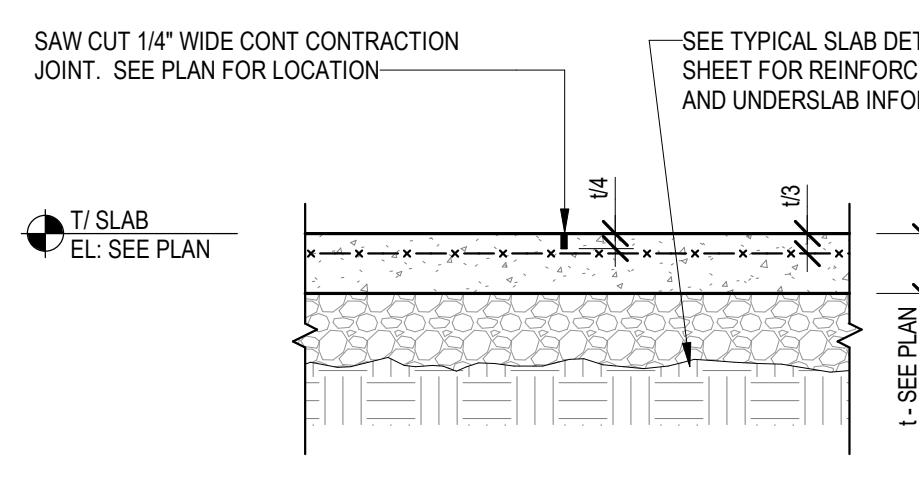
3 TYPICAL WALL DEPRESSION DETAIL

Scale: NTS

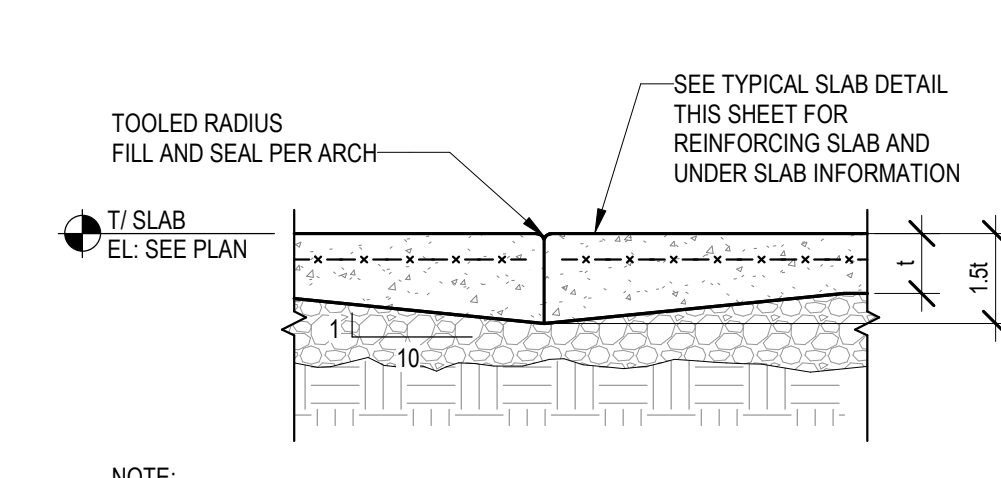


4 TYPICAL SLAB-ON-GRADE DETAIL

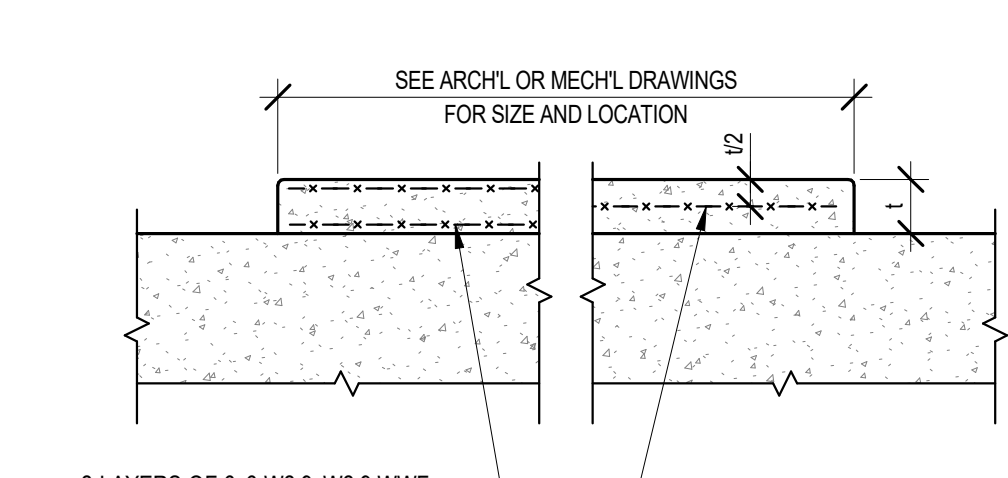
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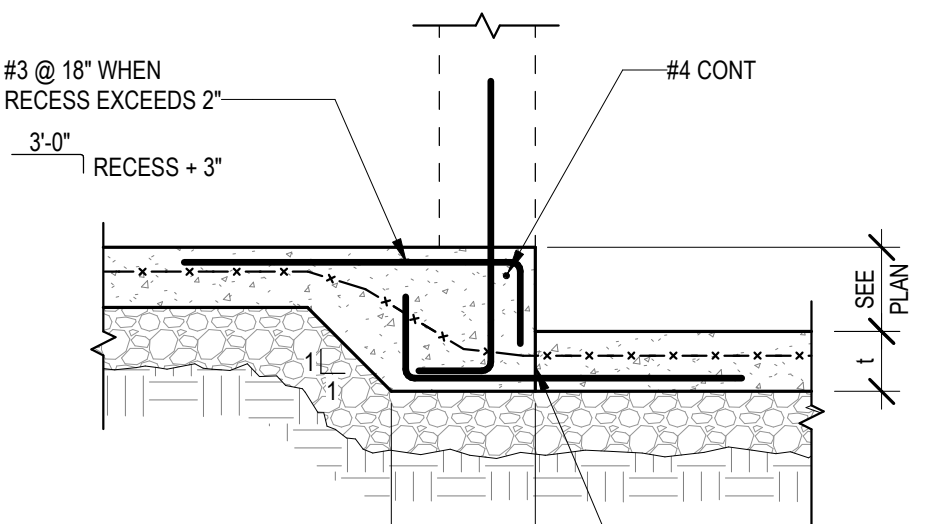
NOTE:
FILL JOINT WITH FLEXIBLE SEALANT AT SLABS-ON-GRADE EXPOSED TO FOOT TRAFFIC OR PNEUMATIC TIRE VEHICULAR TRAFFIC. PROVIDE SEMI-RIGID JOINT FILLERS AT SLABS-ON-GRADE EXPOSED TO HARD WHEELS.



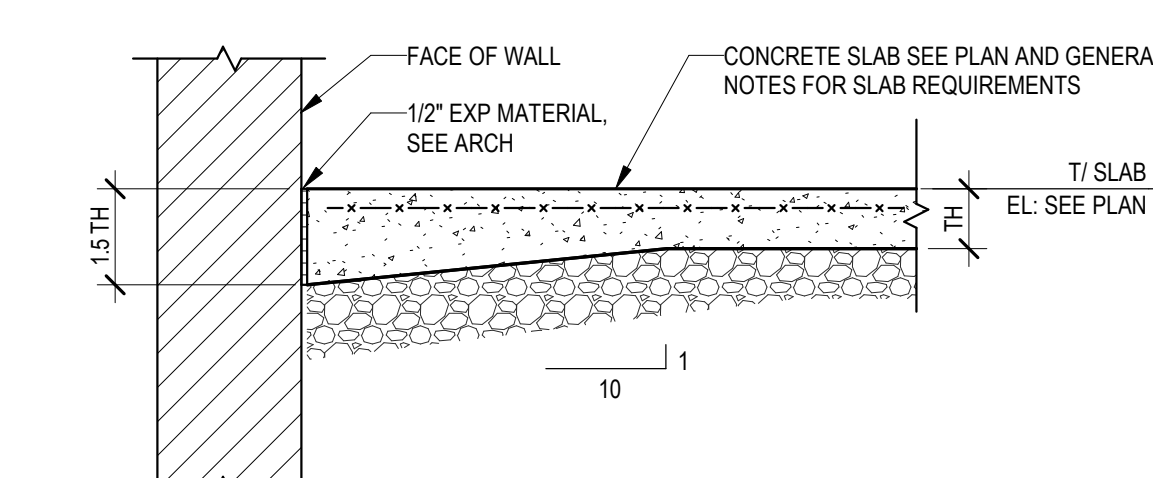
NOTE:
LOCATE CONSTRUCTION JOINTS AT SPECIFIED CONTRACTION JOINT LOCATIONS.



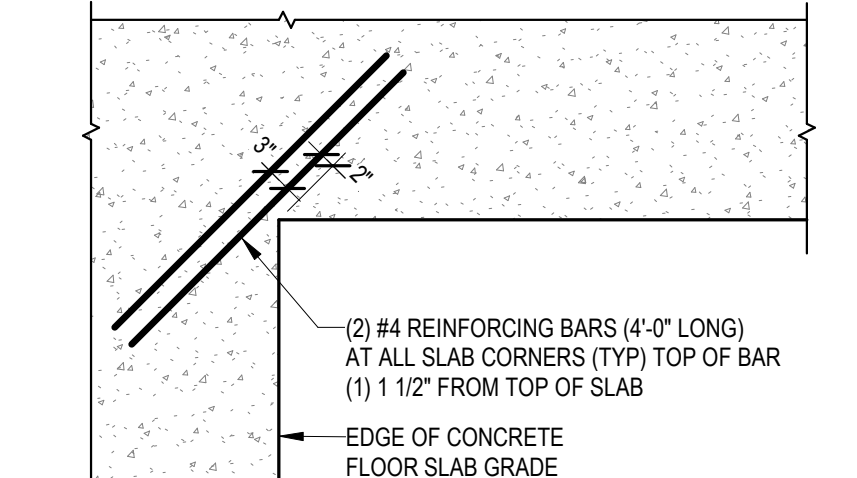
2-LAYERS OF 6x6-W2.9xW2.9 WWF WHEN 5' < 1 < 10'
1-LAYER OF 6x6-W2.9xW2.9 WWF WHEN 1 < 5'



CONSTRUCTION JOINT AT CONTRACTORS OPTION PROVIDE #3 @ 18" WITH STD 90 DEG HOOK THRU JOINT



SEE ARCH DWGS FOR WATER PROOFING AND INSULATION REQUIREMENTS



(2) #4 REINFORCING BARS (4'-0" LONG) AT ALL SLAB CORNERS (TOP) TOP OF BAR (1) 1/2" FROM TOP OF SLAB

5 TYPICAL SLAB-ON-GRADE CONTRACTION JOINT DETAIL

Scale: NTS

6 TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL

Scale: NTS

7 HOUSEKEEPING PAD DETAIL

Scale: NTS

8 TYPICAL SLAB-ON-GRADE RECESS DETAIL

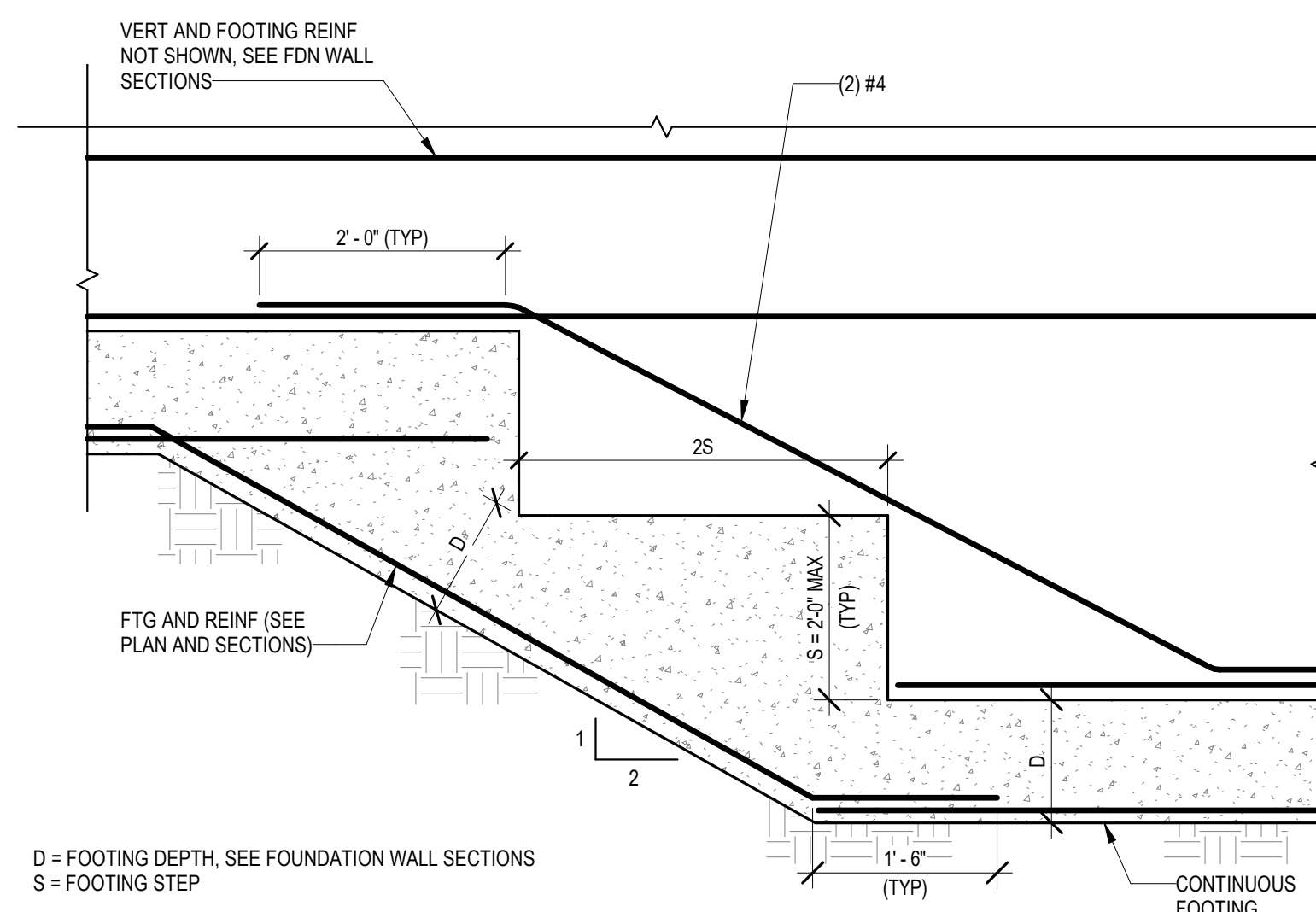
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9 TYPICAL SLAB-ON-GRADE SLAB EDGE

Scale: NTS

10 TYP. SOG RE-ENTRANT CORNER

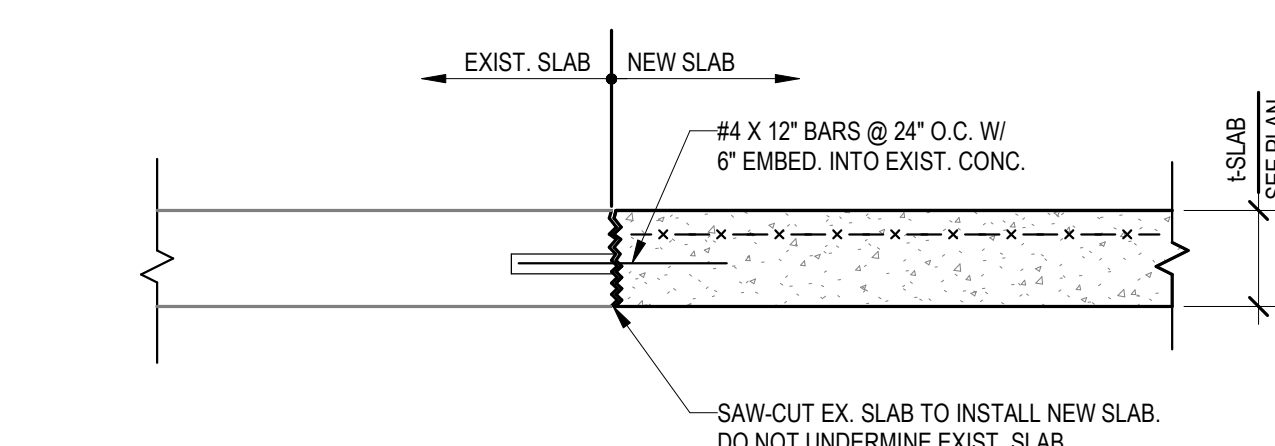
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D = FOOTING DEPTH. SEE FOUNDATION WALL SECTIONS
S = FOOTING STEP

11 TYPICAL STEPPED FOOTING DETAIL

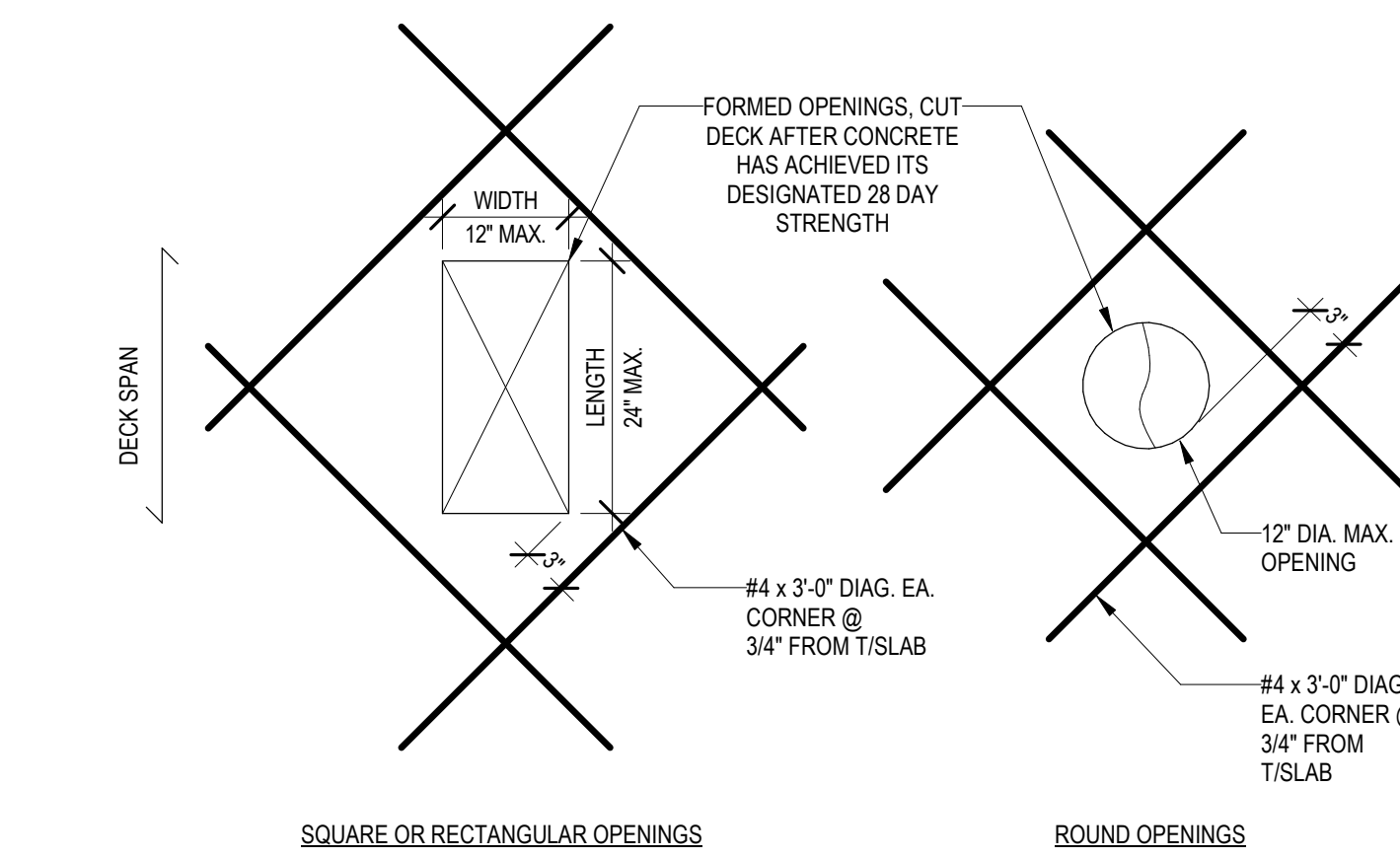
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SAW-CUT EX. SLAB TO INSTALL NEW SLAB. DO NOT UNDERMINE EXIST. SLAB

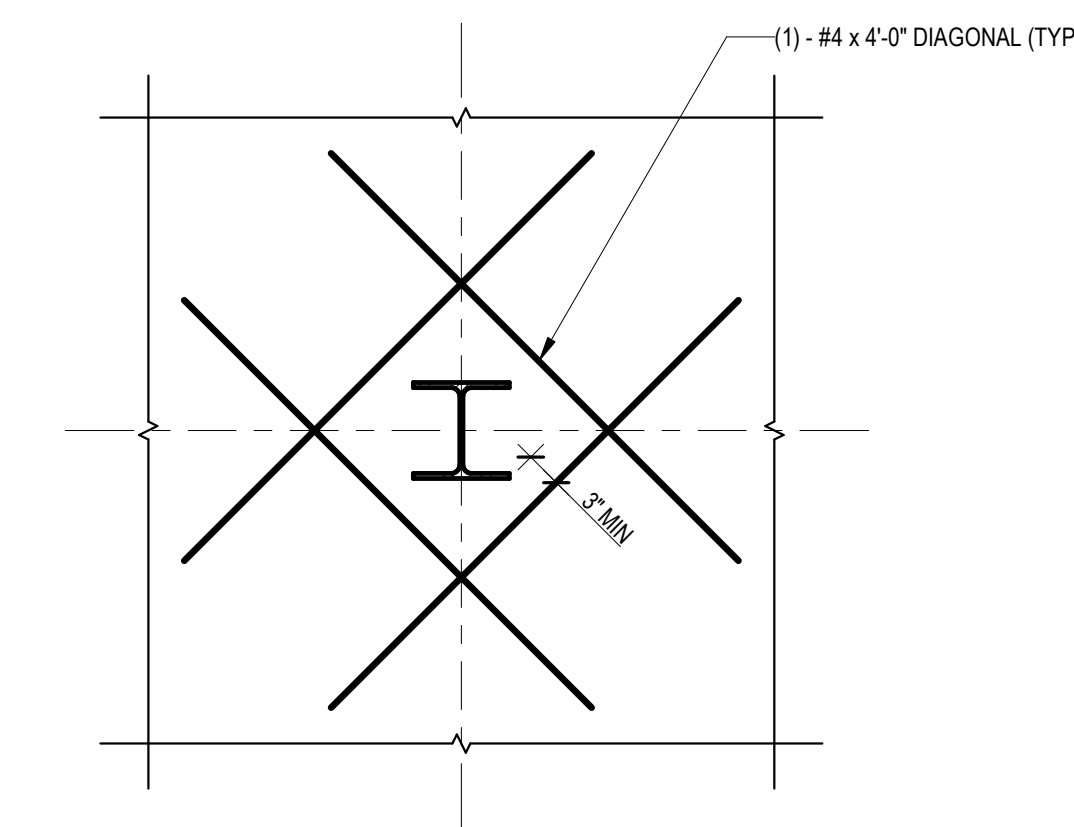
12 TYP. SLAB ON GRADE INFILL

Scale: NTS



13 TYPICAL SLAB OPENING DETAILS

Scale: NTS

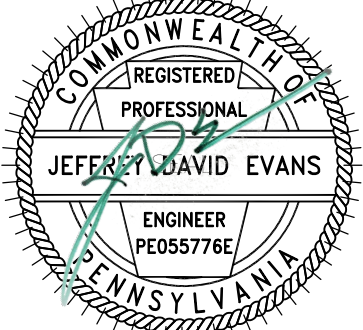


14 TYPICAL SLAB DETAIL AT INTERIOR COLUMNS

Scale: NTS

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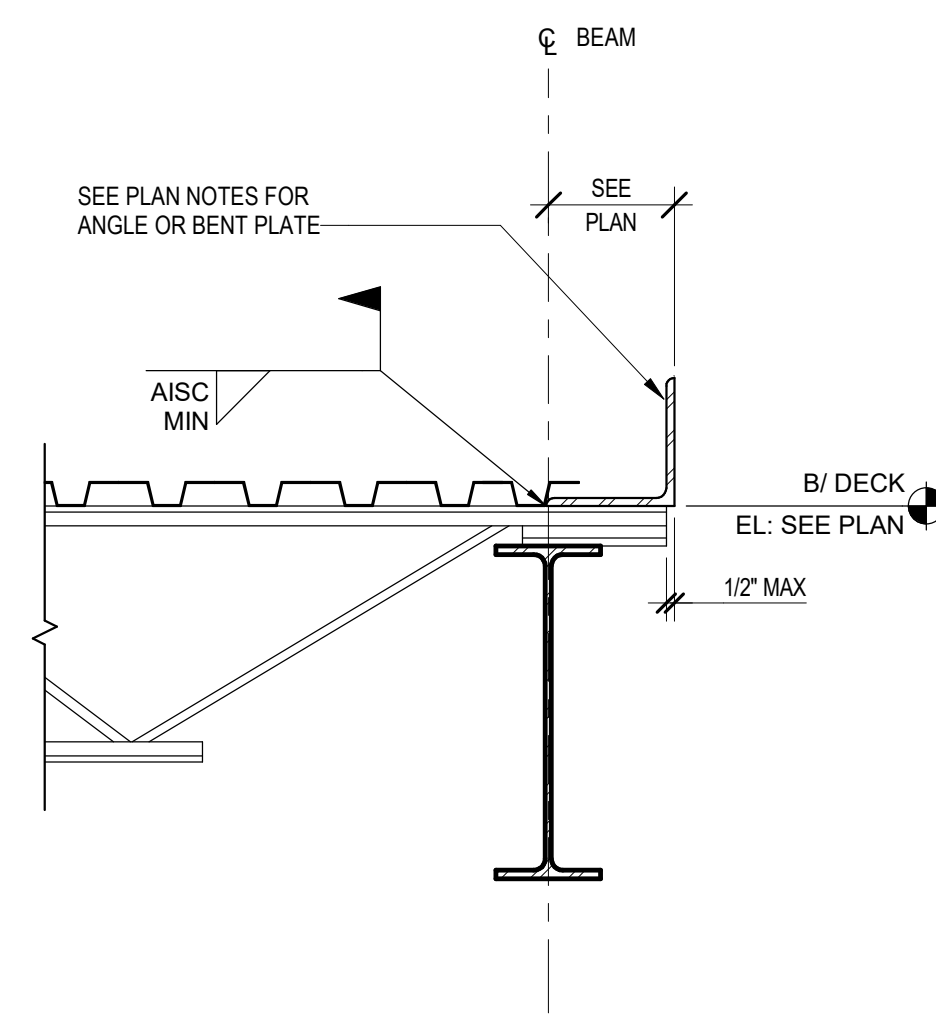
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BUILDING 237 RENOVATION
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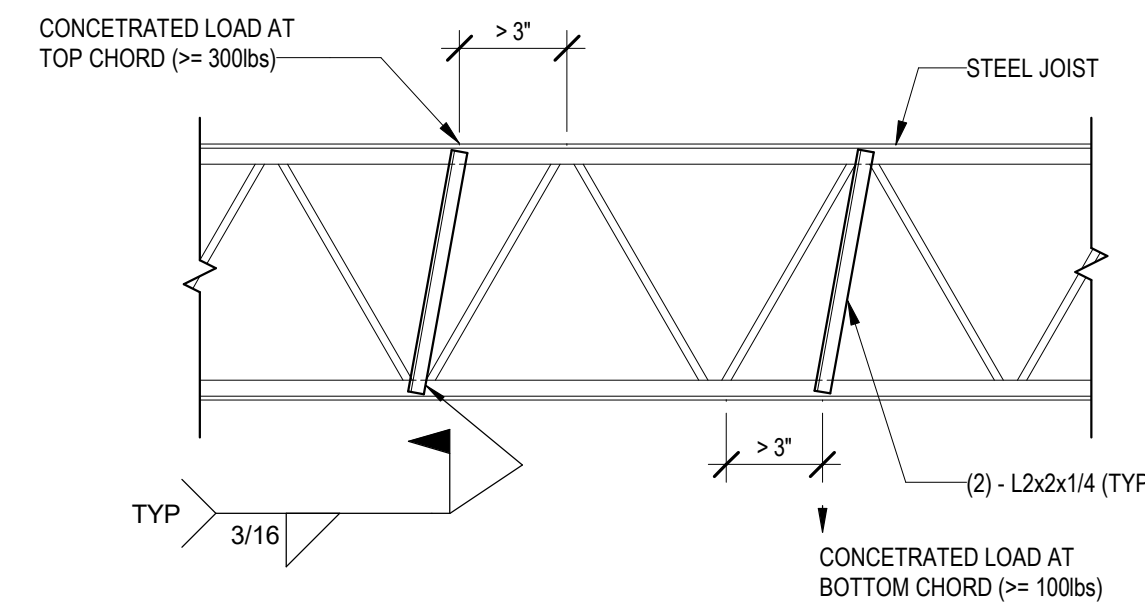
TYPICAL FOUNDATION DETAILS

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0 1
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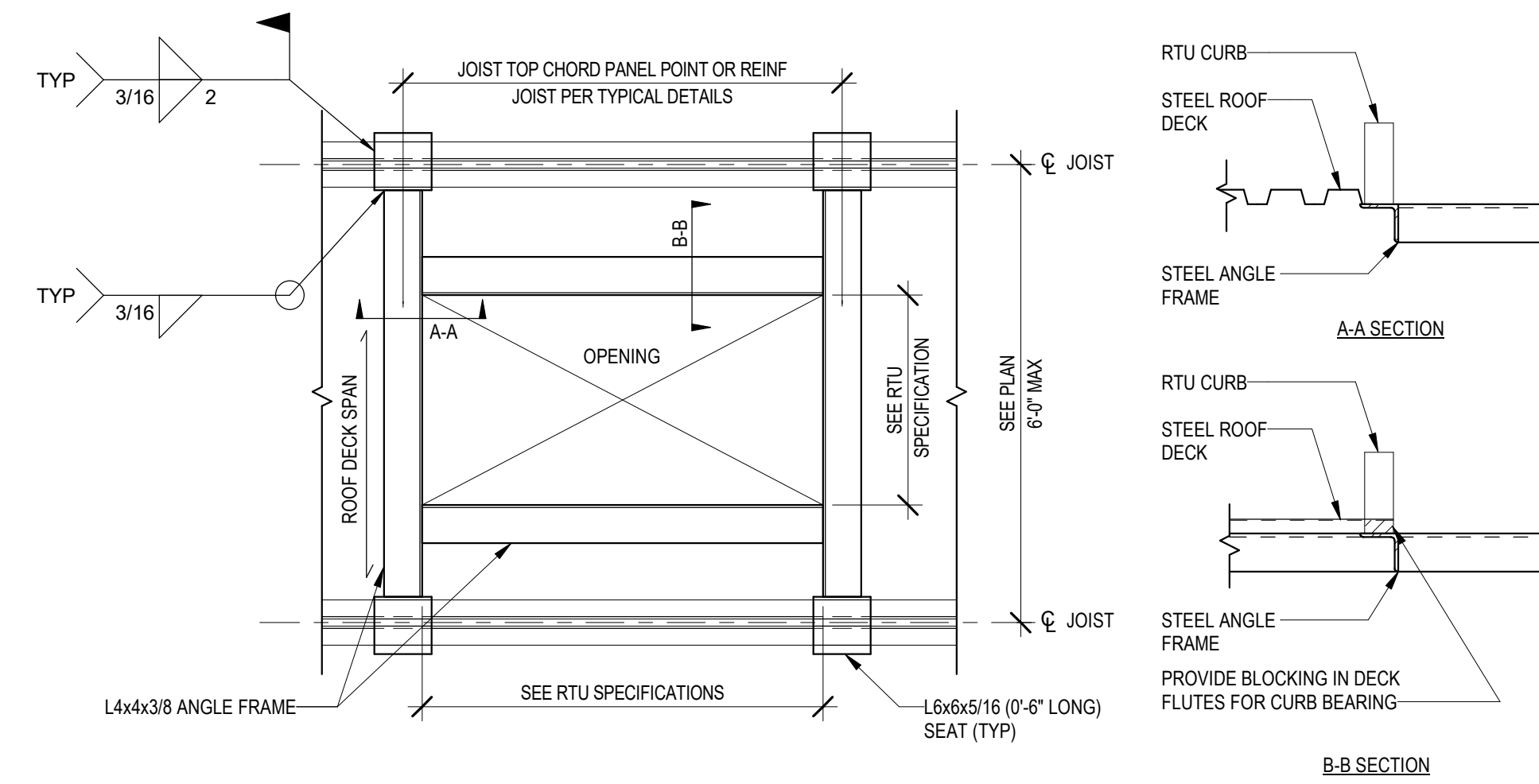
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CHECKED BY: JE SCALE: AS NOTED



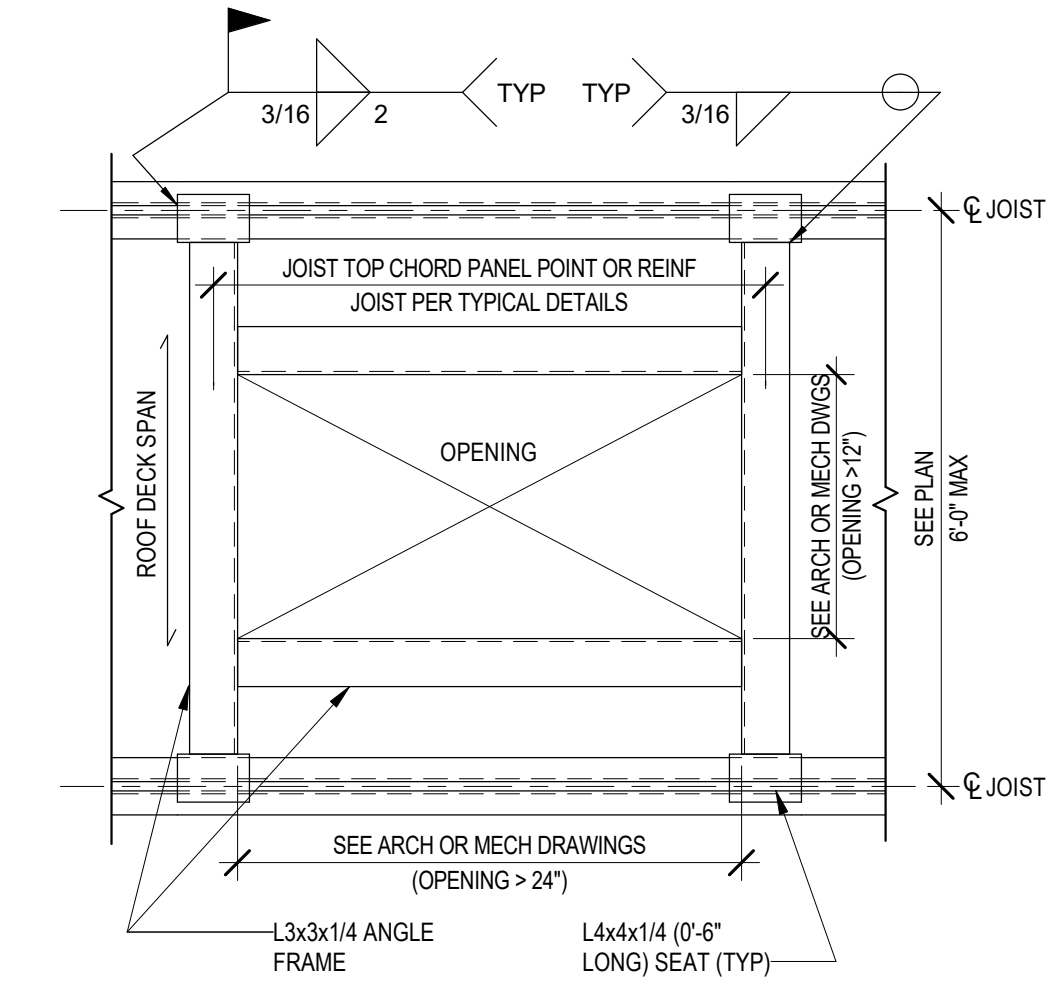
1 TYPICAL ROOF CLOSURE ANGLE DETAIL
S-0.20 Scale: NTS



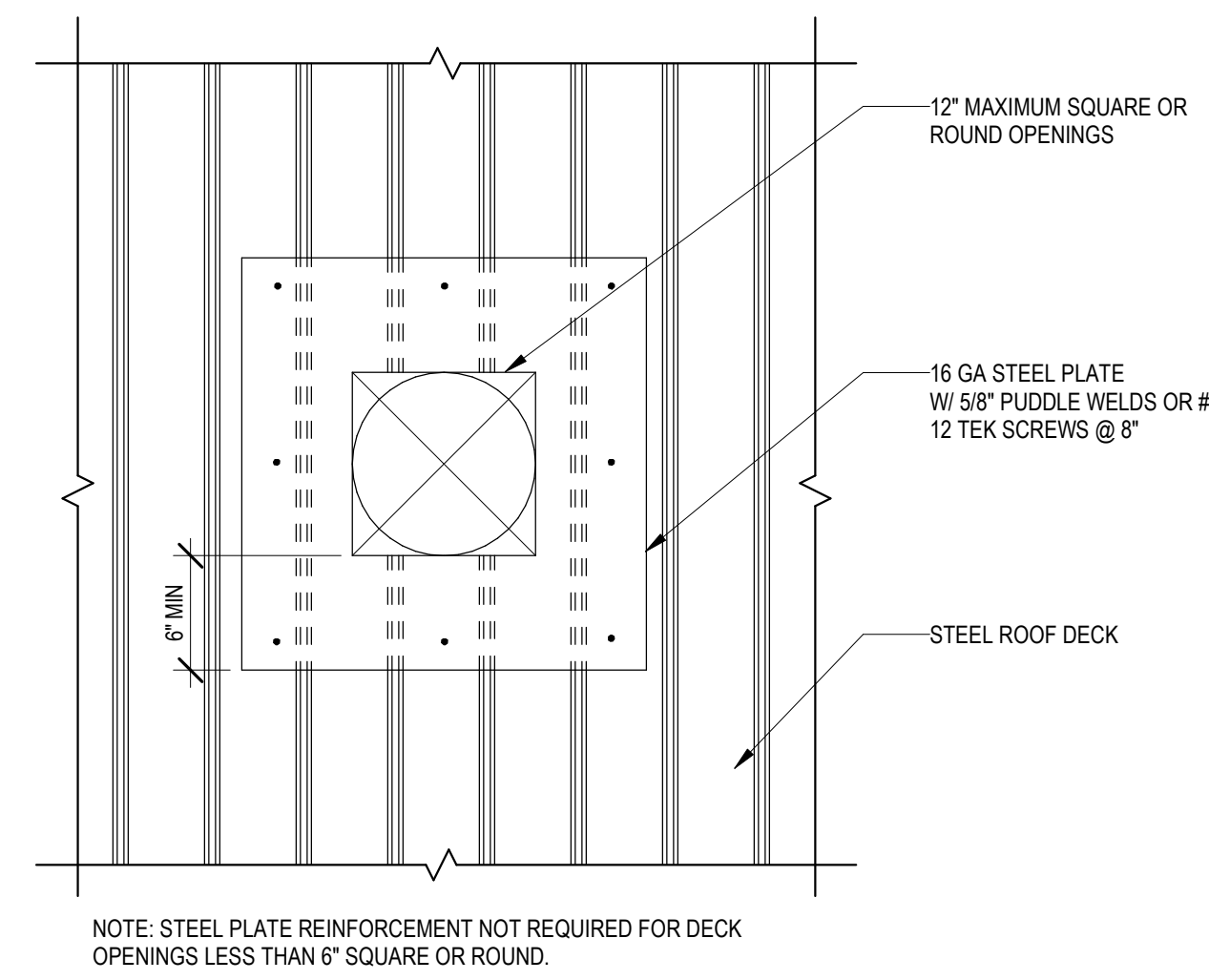
2 TYPICAL JOIST REINFORCEMENT DETAIL
S-0.20 Scale: NTS



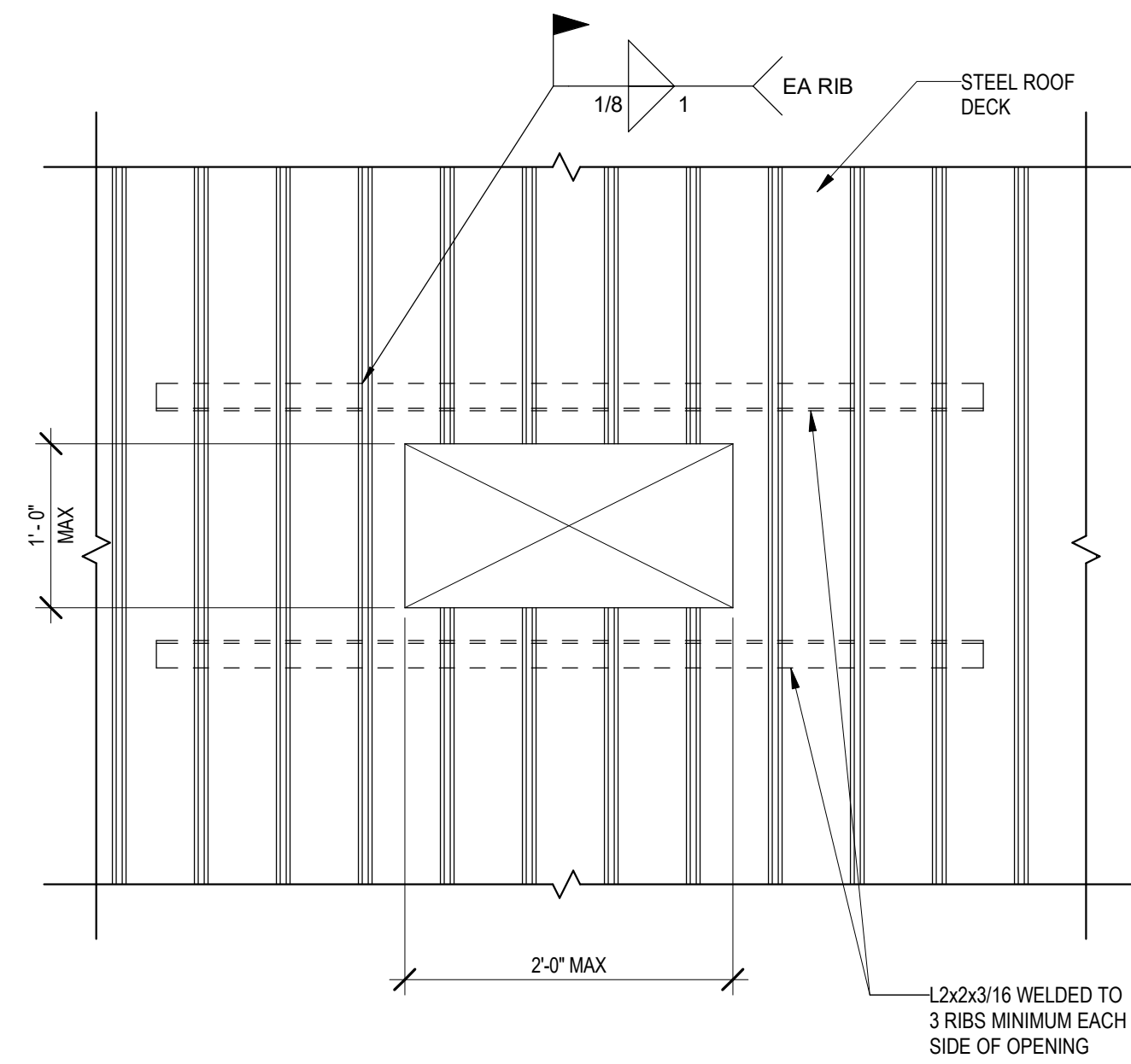
8 TYPICAL ROOF TOP UNIT SUPPORT DETAIL
S-0.20 Scale: NTS



9 TYPICAL ROOF DECK OPENING DETAIL
S-0.20 Scale: NTS



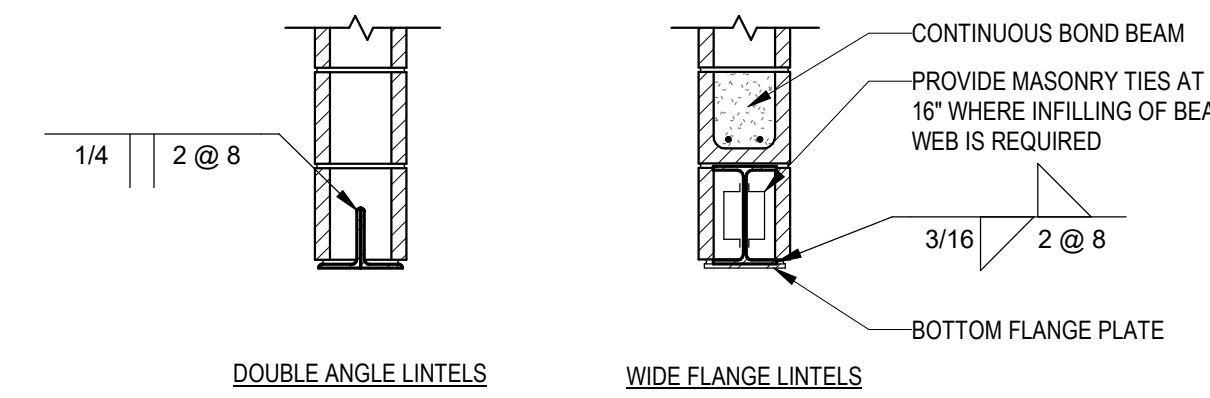
10 TYPICAL ROOF DECK OPENING DETAIL (<12\")
S-0.20 Scale: NTS



11 TYPICAL ROOF DECK OPENING DETAIL (12\"/>

NOMINAL ELEMENT WIDTH	SPAN	STEEL LINTEL
4'	6'-0" or LESS	L3 1/2 x 3 1/2 x 5/16
	OVER 6'-0" to 8'-0"	L5 x 3 1/2 x 5/16 (LLV)
	OVER 8'-0" to 10'-0"	L6 x 3 1/2 x 3/8 (LLV)
6'	6'-0" or LESS	2 - L3 1/2 x 2 1/2 x 5/16 (LLV)
	OVER 6'-0" to 8'-0"	2 - L3 1/2 x 2 1/2 x 3/8 (LLV)
	OVER 8'-0" to 10'-0"	W8 x 18
8'	6'-0" or LESS	2 - L3 1/2 x 3 1/2 x 5/16
	OVER 6'-0" to 8'-0"	2 - L5 x 3 1/2 x 5/16 (LLV)
	OVER 8'-0" to 10'-0"	2 - L6 x 3 1/2 x 5/16 (LLV)
10'	6'-0" or LESS	L4 x 3 x 5/16 (LLH) W/ L5 x 3 x 5/16 (LLH)
	OVER 6'-0" to 8'-0"	W8 x 15 W/ PL 1/4 x 8 1/2
	OVER 8'-0" to 10'-0"	W8 x 15 W/ PL 1/4 x 8 1/2
12'	6'-0" or LESS	W8 x 15 W/ PL 1/4 x 10 1/2
	OVER 6'-0" to 8'-0"	W8 x 15 W/ PL 1/4 x 10 1/2
	OVER 8'-0" to 10'-0"	W8 x 15 W/ PL 1/4 x 10 1/2

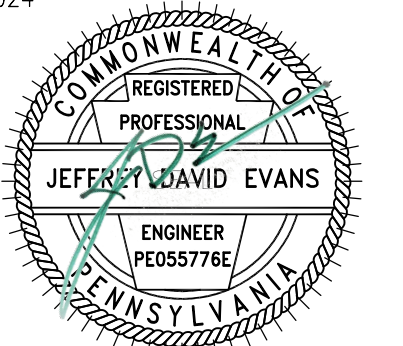
NOTES:
 SCHEDULED LINTELS ARE TO BE USED IN ALL MASONRY WALLS INDICATED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS (I.N.D.) WHERE OPENINGS ARE REQUIRED. COORDINATE WITH MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS FOR ADDITIONAL REQUIRED OPENINGS IN WALLS. OPENINGS LESS THAN 16" IN WIDTH DO NOT REQUIRE LINTELS.
 SCHEDULED LINTELS ARE INTENDED ONLY FOR EACH INDEPENDENT WALL ELEMENTS. FOR EXAMPLE, THE PROPER SELECTION FOR A 4" BRICK VENEER WITH AN 8" CMU BACKUP WOULD CONSIST OF THE SINGLE ANGLE SELECTION FOR BRICK VENEER PLUS THE DOUBLE ANGLE SELECTION FOR THE CMU BACKUP.
 UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL OR STRUCTURAL PLANS OR DETAILS, CONTRACTOR MAY USE STEEL LINTELS OR CMU LINTELS IN NON-LOAD BEARING WALLS AT THEIR OPTION.
 STEEL LINTELS SHALL BEAR MINIMUM OF 4" EACH END.
 PROVIDE LINTEL ASSEMBLIES IN ACCORDANCE WITH DETAILS BELOW.
 LINTELS AT EXTERIOR MASONRY WALLS SHALL BE GALVANIZED. LINTELS AT INTERIOR WALLS MAY BE PAINTED.



3 LOOSE LINTEL SCHEDULE
S-0.20 Scale: 3/4" = 1'-0"

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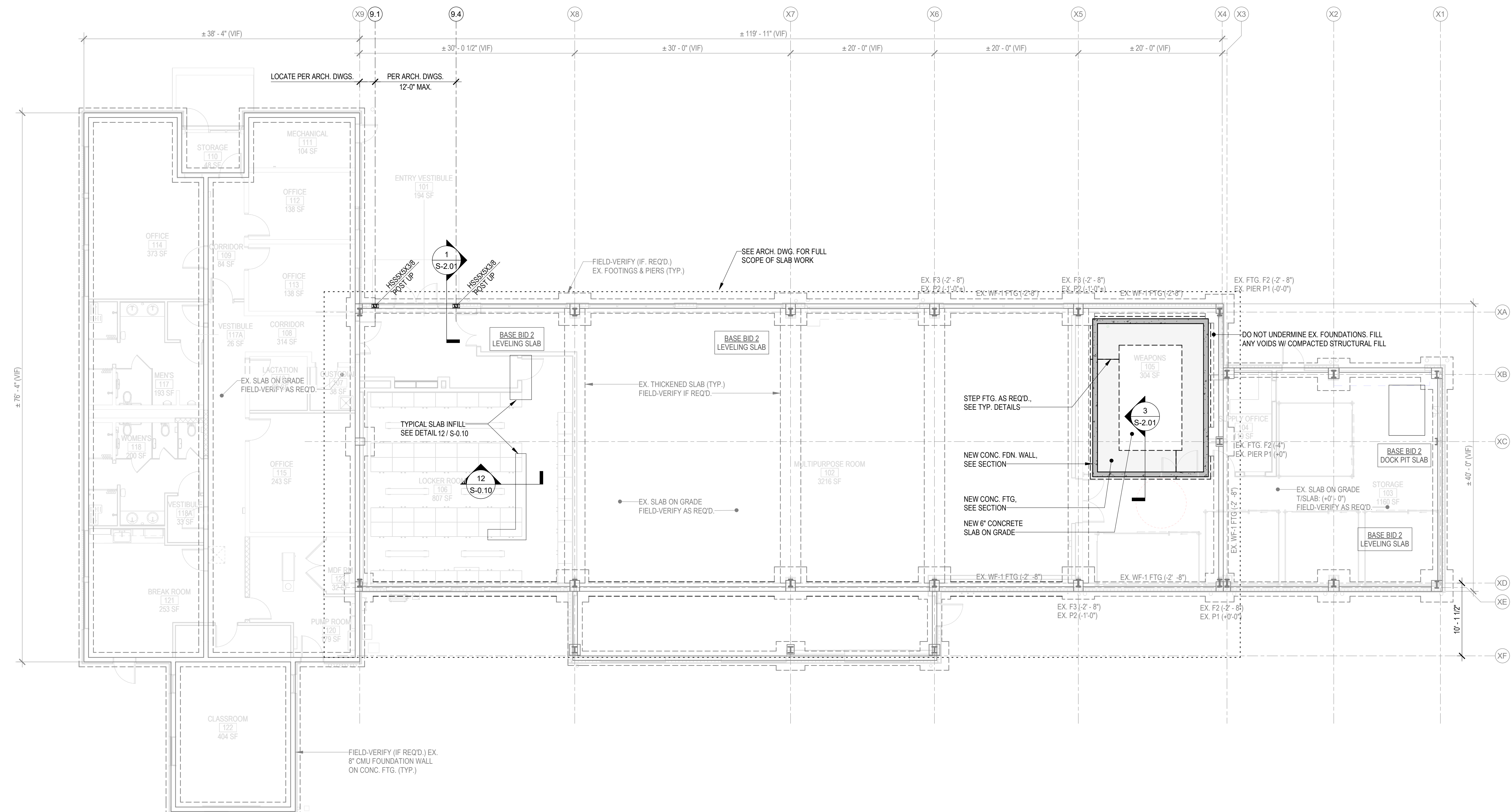
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BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

VERIFY SCALE
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
 0 1
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TYPICAL STEEL DETAILS
 DRAWN BY TR DATE 04/15/2024 DRAWING No. S-0.20
 CHECKED BY JE SCALE AS NOTED



1 FOUNDATION PLAN
Scale: 1/8" = 1'-0"

- FOUNDATION PLAN NOTES:**
- THE EXISTING FOUNDATION LAYOUT SHOWN ON THIS PLAN IS BASED ON VERY LIMITED SITE OBSERVATIONS AND EXISTING DRAWINGS ENTITLED "VEHICLE MAINTENANCE FACILITY - AIR RESERVE FACILITY WILLOW GROVE, PA" PREPARED BY YLS DESIGN GROUP, PC, DATED 1-27-94 WITH MULTIPLE REVISIONS ENDING IN 9-22-88. ANY DISCREPANCIES BETWEEN EXISTING FIELD CONDITIONS AND THE DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.
 - TOP OF EXISTING SLAB ELEVATION (0'-0") TO BE VERIFIED IN FIELD.
 - TOP OF NEW SLAB ELEVATION INDICATED ON DWGS. IS RELATIVE TO EXISTING TOP OF SLAB ELEVATION.
 - TYPICAL FLOOR SLAB SHALL BE 6" CONCRETE SLAB-ON-GRADE W/ 6# W2 5mW2.9 W.F. (U.N.O.)
 - ALL EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING OF ANY WORK. IF EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH THE PROPOSED MODIFICATION FOR REVIEW BY ARCHITECT.
 - PROVIDE THICKENED SLAB BELOW ALL NON-LOAD BEARING CMU WALLS AS INDICATED ON THE ARCH. DWGS. COORDINATE ALL WALL LOCATIONS AND EXTENT WITH ARCH. DWGS.
 - AT ALL LOCATIONS WHERE PIPING RUNS BENEATH FOUNDATION WALLS, DEEPEENED FOOTINGS AS REQUIRED TO ALLOW 6" MIN. CLEARANCE BETWEEN PIPE AND FOOTINGS. SEE DETAILS.
 - SEE ARCH. DWGS. FOR WATERPROOFING AND INSULATION REQUIREMENTS AND LOCATIONS.
 - PER THE GEOTECHNICAL REPORT (SEE GENERAL NOTES), FOUNDATIONS HAVE BEEN DESIGNED USING A MAXIMUM ALLOWABLE PRESSURE OF 3,000 PSF. CONTRACTOR SHALL ALLOW OWNER'S GEOTECHNICAL ENGINEER TO OBSERVE SUBGRADE CONDITIONS TO CONFIRM BEARING CAPACITY PRIOR TO PLACEMENT OF FORMS OR REINFORCING STEEL.
 - SEE DRAWINGS S-0.01 FOR GENERAL NOTES.
 - SEE DRAWINGS S-0.11 FOR TYPICAL FOUNDATION DETAILS.
- PLAN LEGEND:**

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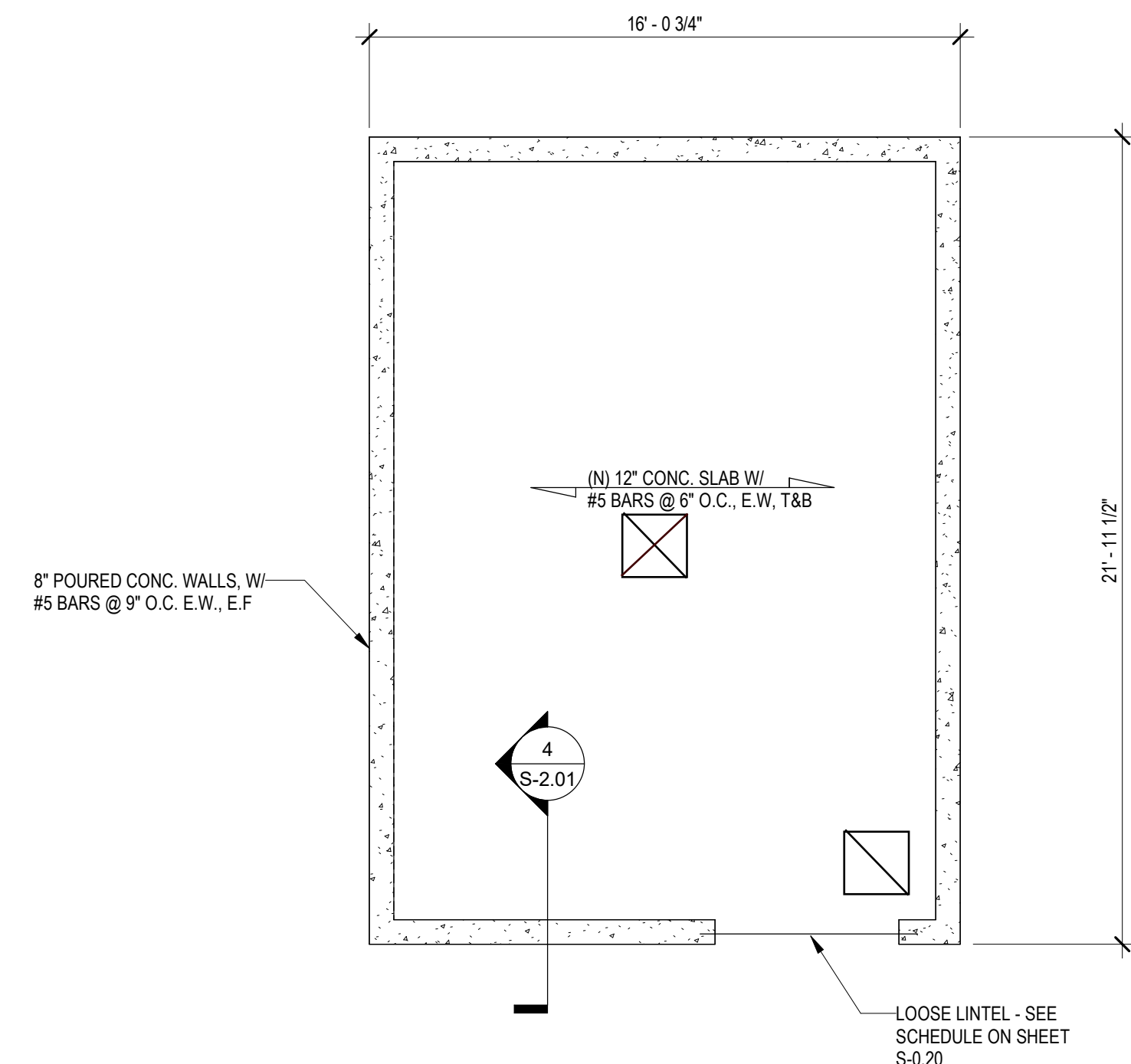
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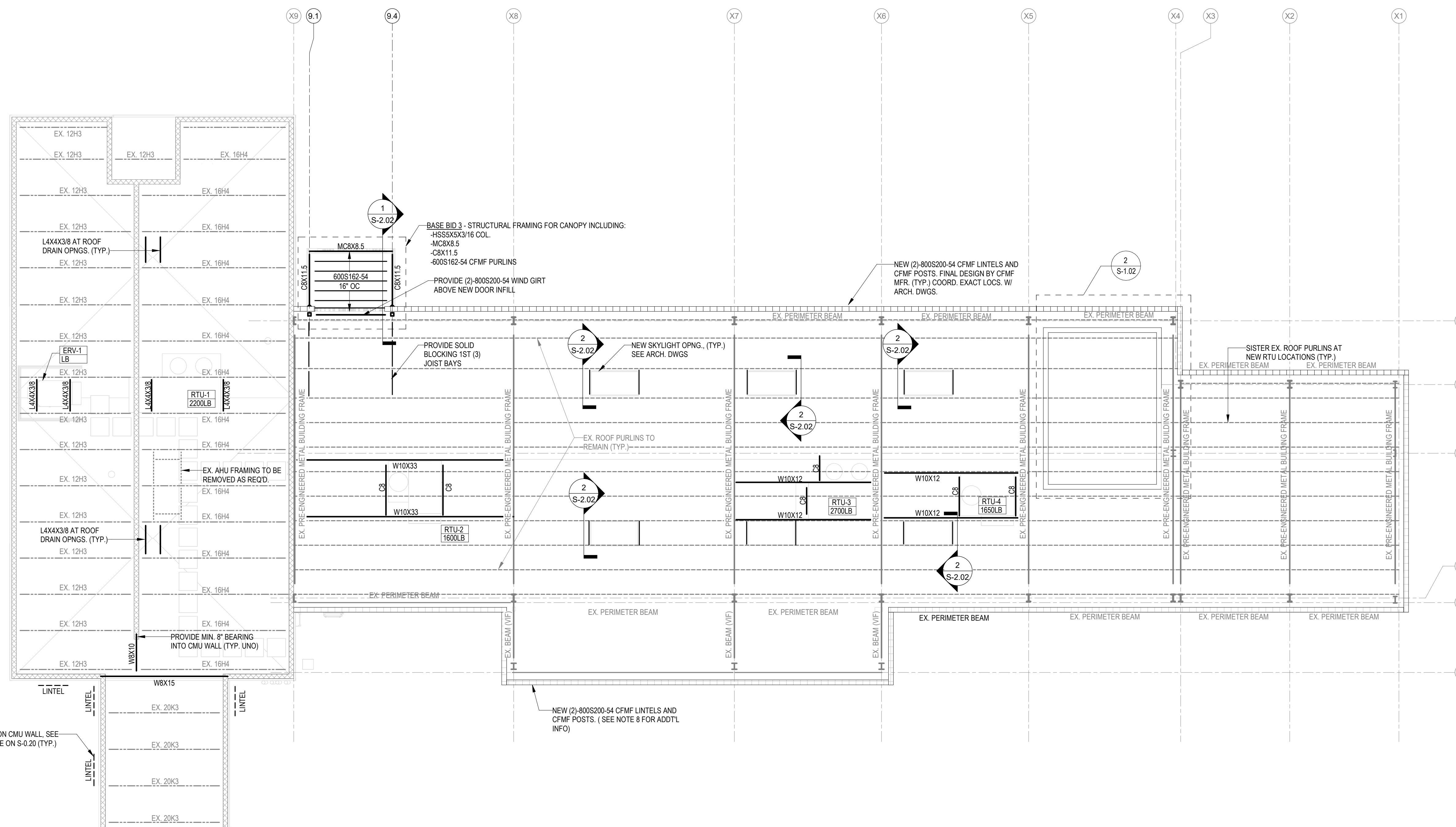
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CHECKED BY JE	SCALE AS NOTED	



2 VAULT CEILING FRAMING
Scale: 1/4" = 1'-0"



1 ROOF FRAMING PLAN
Scale: 1/8" = 1'-0"

ROOF PLAN NOTES:

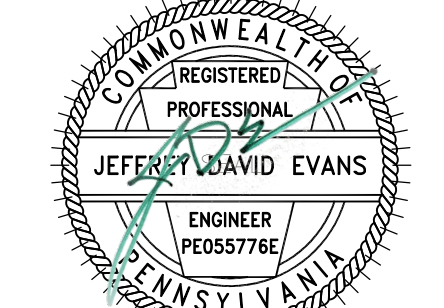
- FIELD VERIFY ALL TOP OF EXISTING STEEL ELEVATIONS.
- FRAMING MEMBERS SHALL BE EVENLY SPACED AS INDICATED ON DRAWINGS (UNO).
- ALL EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING ANY WORK. IF EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH THE PROPOSED MODIFICATION FOR REVIEW BY ARCHITECT.
- CONTRACTOR TO CONFIRM ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL AND MEP FP DRAWINGS.
- ROOF OPENINGS REQUIRE STEEL BEAMS AS INDICATED ON PLANS, OR TYPICAL ROOF PENETRATION FRAMING ON TYPICAL DETAILS.
- SEE ARCHITECTURAL DRAWINGS FOR ROOF ASSEMBLY FIRE RATINGS AND FIREPROOFING REQUIREMENTS.
- DESIGN INFORMATION SHOWN ON THIS DRAWING IS BASED ON PROPOSED EQUIPMENT SELECTIONS (SEE MECH. DWGS). IF FINAL EQUIPMENT DIFFERS, THEN DESIGN SHOWN IS VOID. CHANGES / MODIFICATIONS REQUIRED CAN BE PROVIDED AS ADDITIONAL SERVICES.
- PROVIDE 800S200-97 CFMF STEEL GIRTS WHERE SPACING EXCEEDS 3'-0" O.C. HORIZONTAL AT ALL NEW INFILL WALLS WHERE WIND GIRT SPANS ARE LESS THAN OR EQUAL TO 2FT. PROVIDE (2)-800S200-97 COLD ROLLED STEEL CHANNELS @ 24" O.C. HORIZONTAL WHERE WIND GIRT SPANS EXCEED 20FT.
- PROVIDE NEW CBX2 12 GA. VERT. STUDS @ 2'-0" O.C. AT 2" HORIZONTAL PANELS.
- SEE DRAWINGS S0.10 THROUGH FOR TYPICAL DETAILS.

PLAN LEGEND:

- INDICATES MOMENT CONNECTION
- INDICATES TOTAL MOMENT (k-ft) AT CONNECTION
- INDICATES TOTAL FACTORED END REACTION IN KIPS FOR STEEL TO STEEL CONNECTION DESIGN. ALL CONNECTIONS TO BE DESIGNED FOR A FACTORED END REACTION IN KIPS FOR STEEL TO STEEL CONNECTION DESIGN. ALL CONNECTIONS TO BE DESIGNED FOR A FACTORED REACTION OF 10% MINIMUM (UNO)
- W, (±FT-INT) INDICATES T/ STEEL ELEVATION RELATIVE TO TYPICAL STEEL
- INDICATES SPAN DIRECTION OF NEW ROOF DECK
- INDICATES EXISTING WALLS WITH NEW CFMF WIND GIRTS TO SUPPORT EXTERIOR WALL PANELS (SEE NOTES 8 & 9)

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8-26-2024
SIGNATURE DATE

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

ROOF FRAMING PLAN

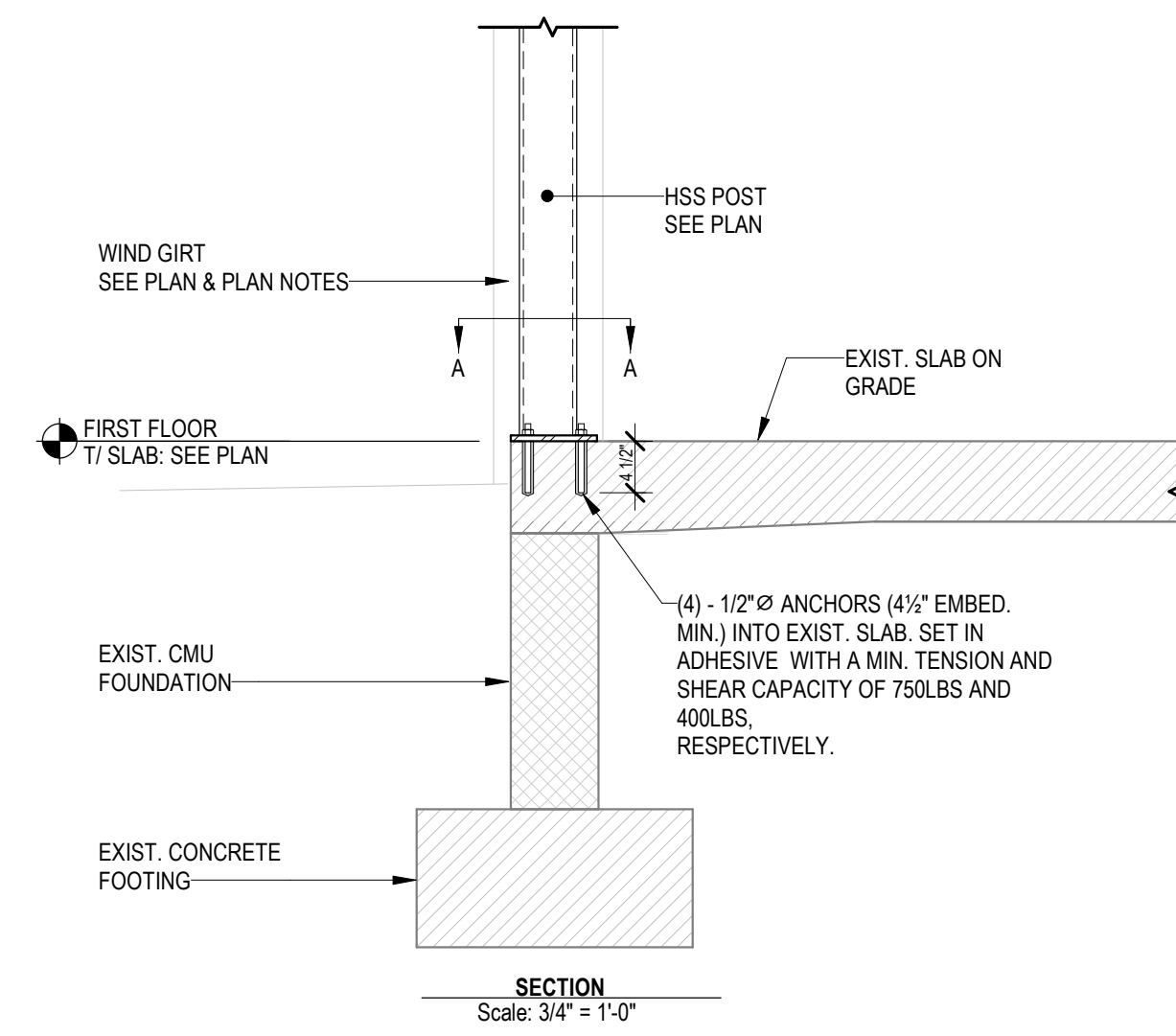
DRAWING No. S-1.02

VERIFY SCALE

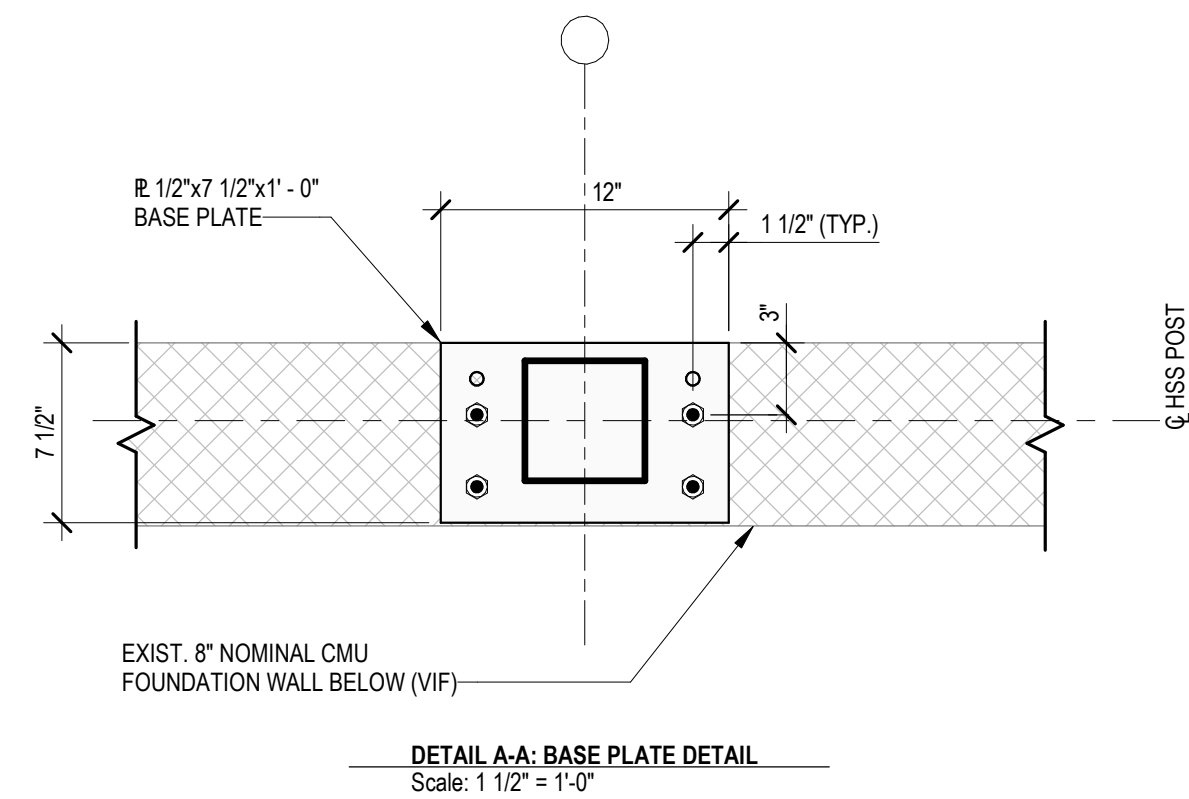
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IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

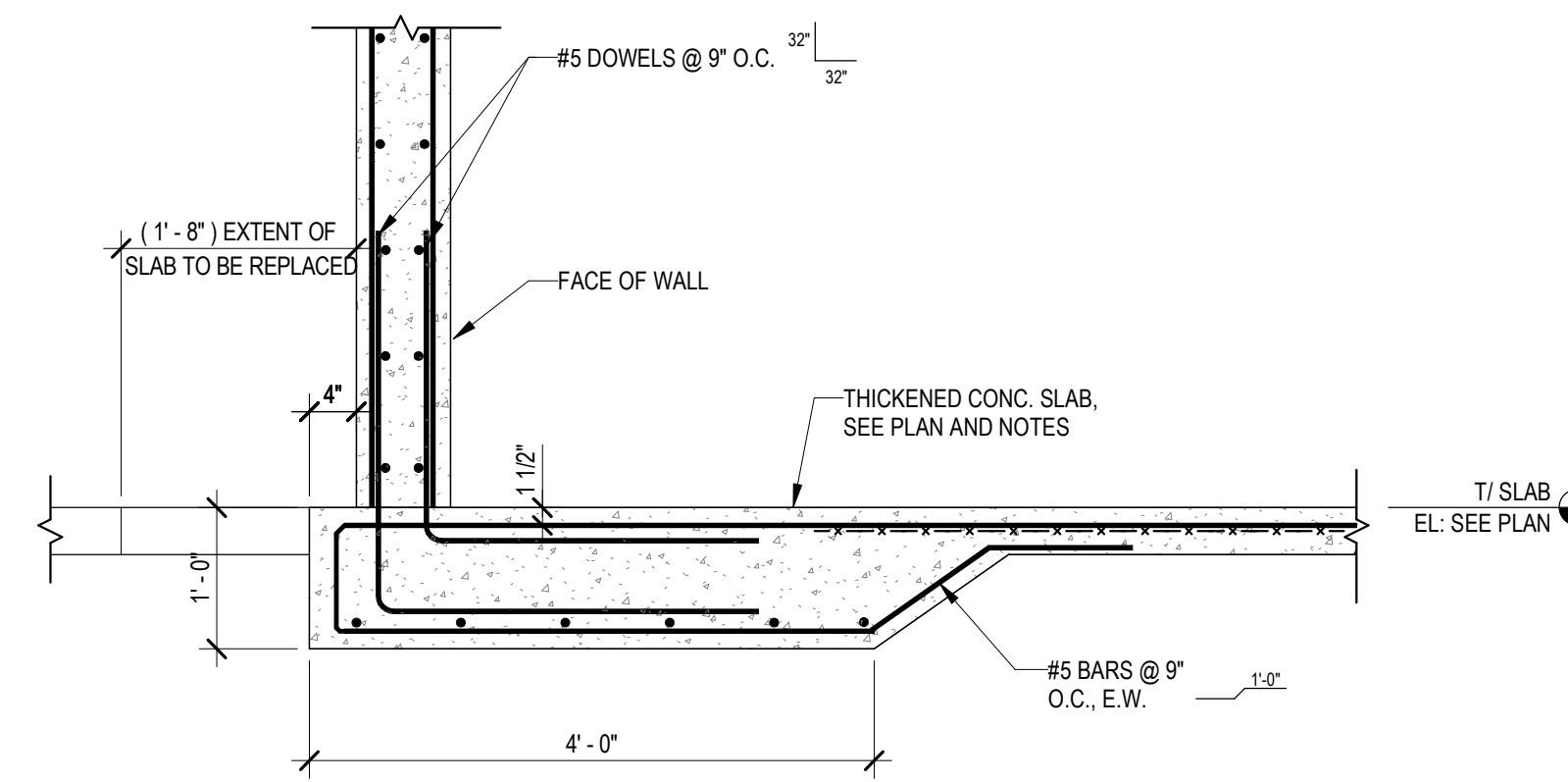
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-1.02
	CHECKED BY JE	SCALE AS NOTED	



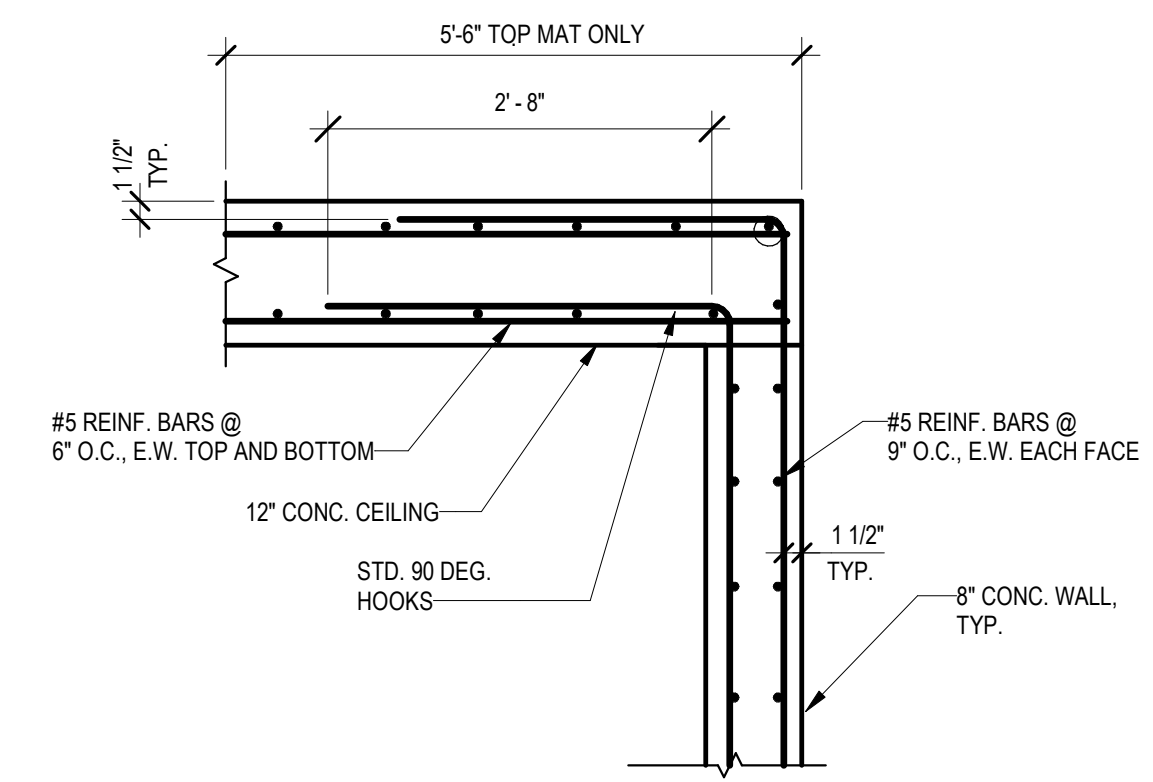
1 HSS POST BASE DETAILS
Scale: AS NOTED



DETAIL A-A: BASE PLATE DETAIL
Scale: 1 1/2" = 1'-0"



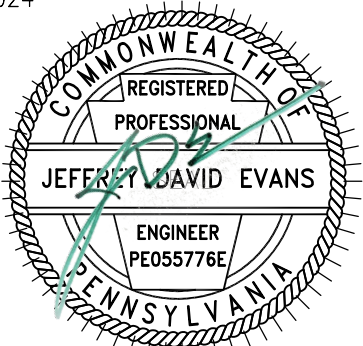
3 SECTION
Scale: 3/4" = 1'-0"



4 WALL/CEILING REINFORCING @ VAULT
Scale: 3/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

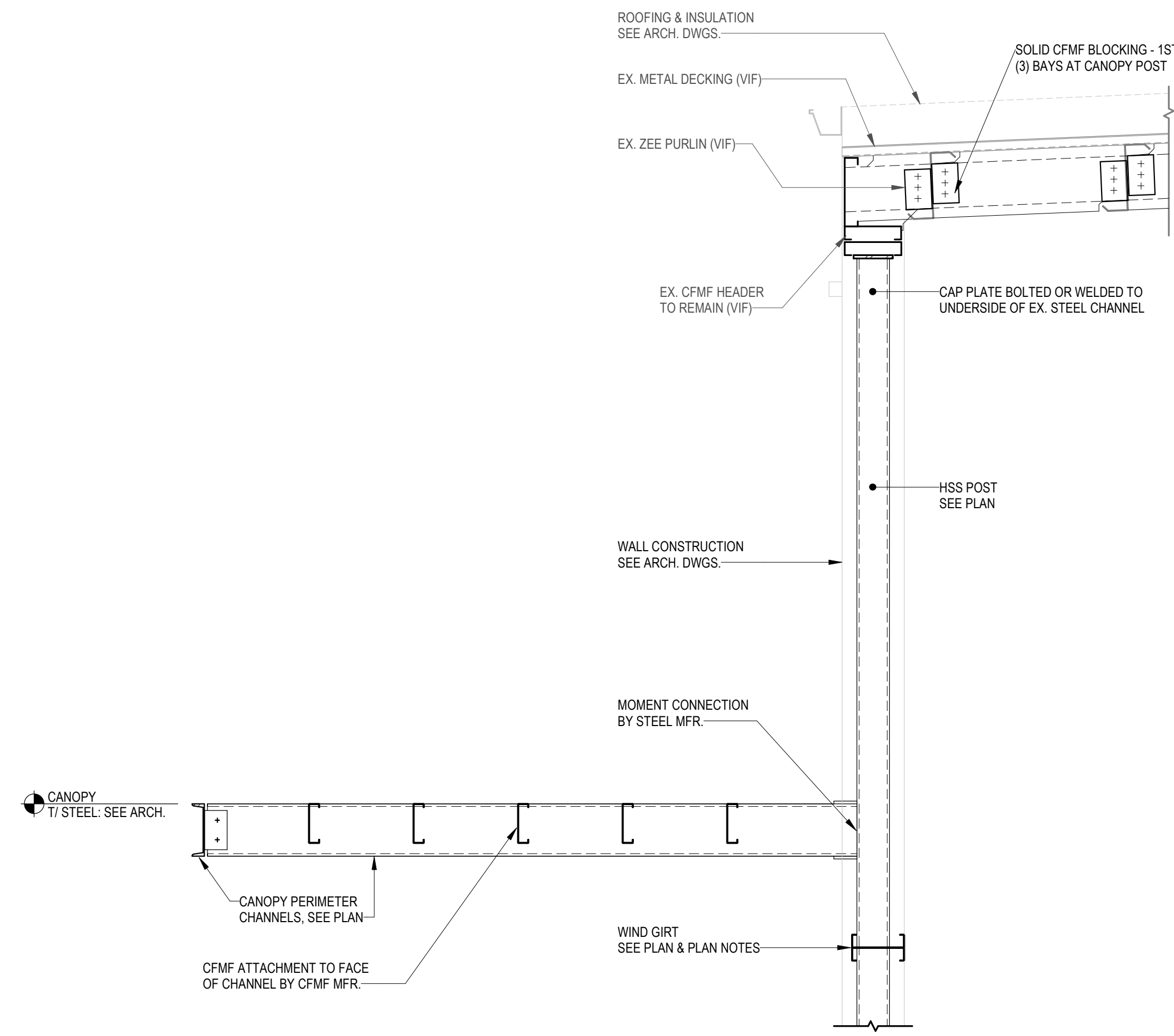
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

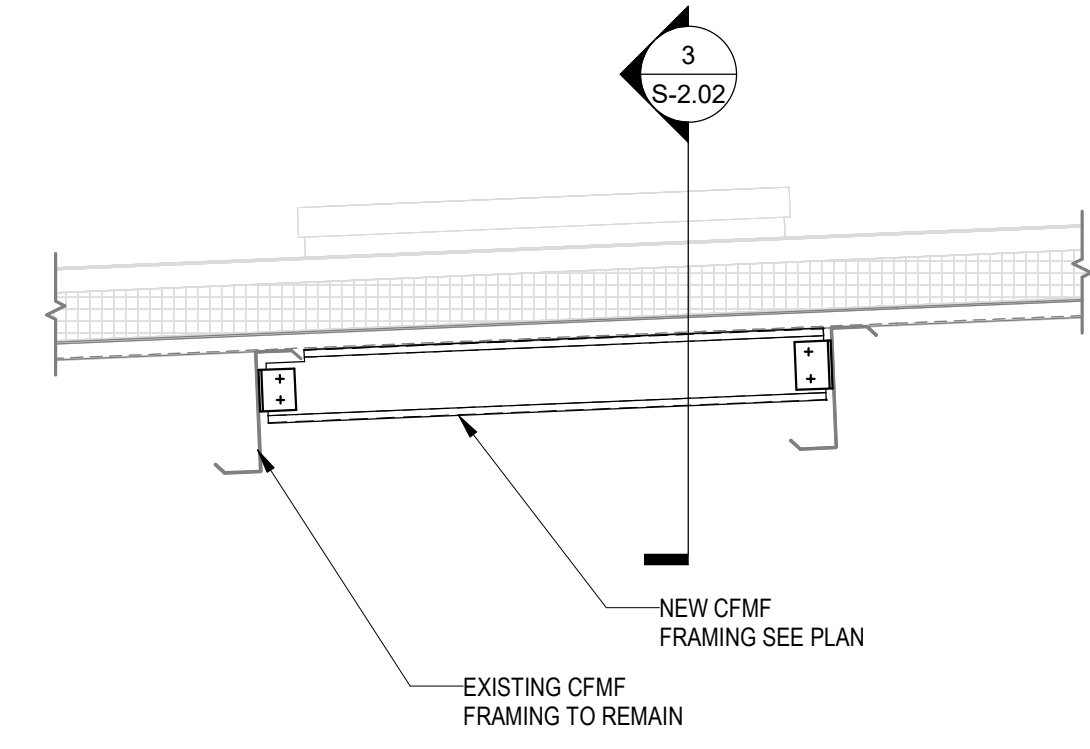
FOUNDATION SECTIONS

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
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VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
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OF CONSTRUCTION APPROVAL.

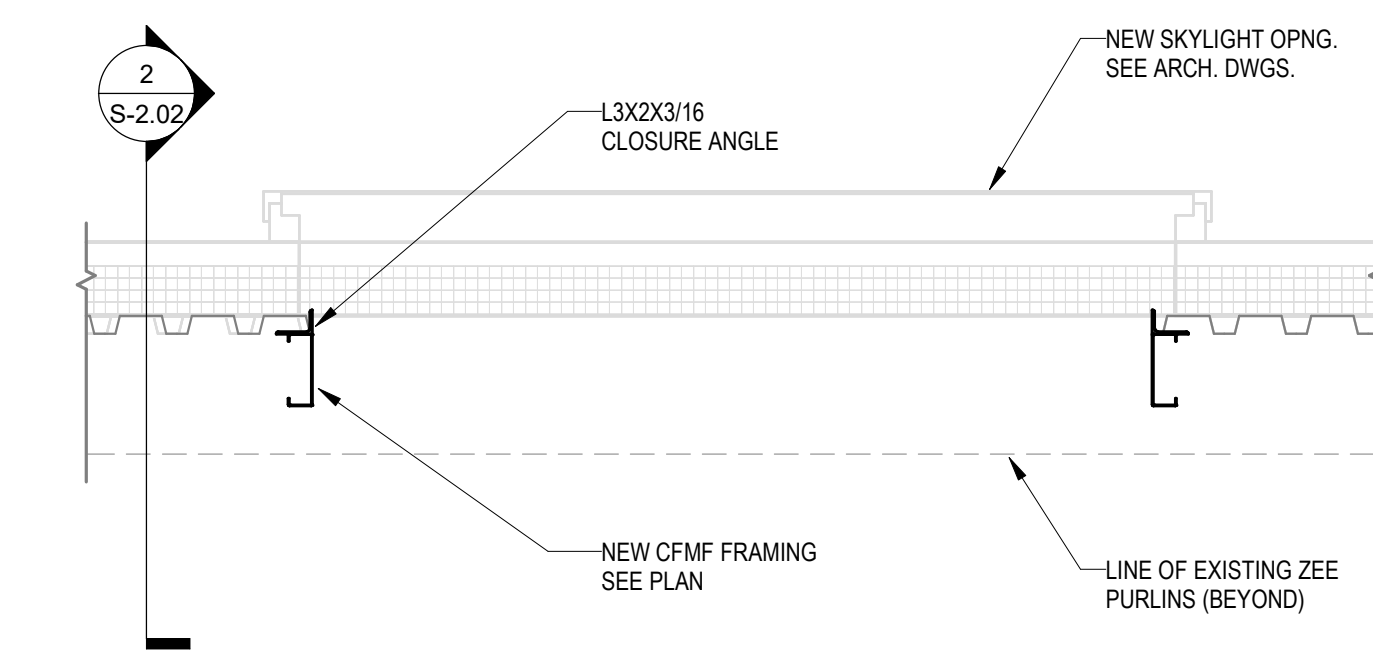
DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-2.01
CHECKED BY JE	SCALE AS NOTED	



1 SECTION
S-2.02 Scale: 3/4" = 1'-0"



2 SECTION
S-2.02 Scale: 3/4" = 1'-0"

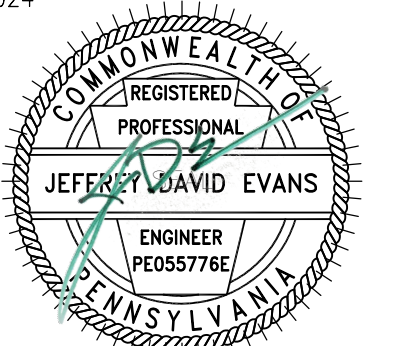


3 SECTION
S-2.02 Scale: 3/4" = 1'-0"

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ARCHITECTURE + PROJECT MANAGEMENT

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

FRAMING SECTIONS

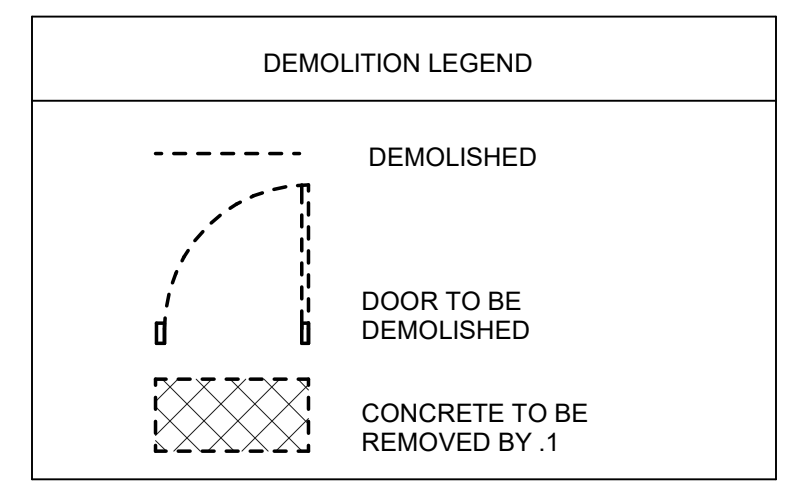
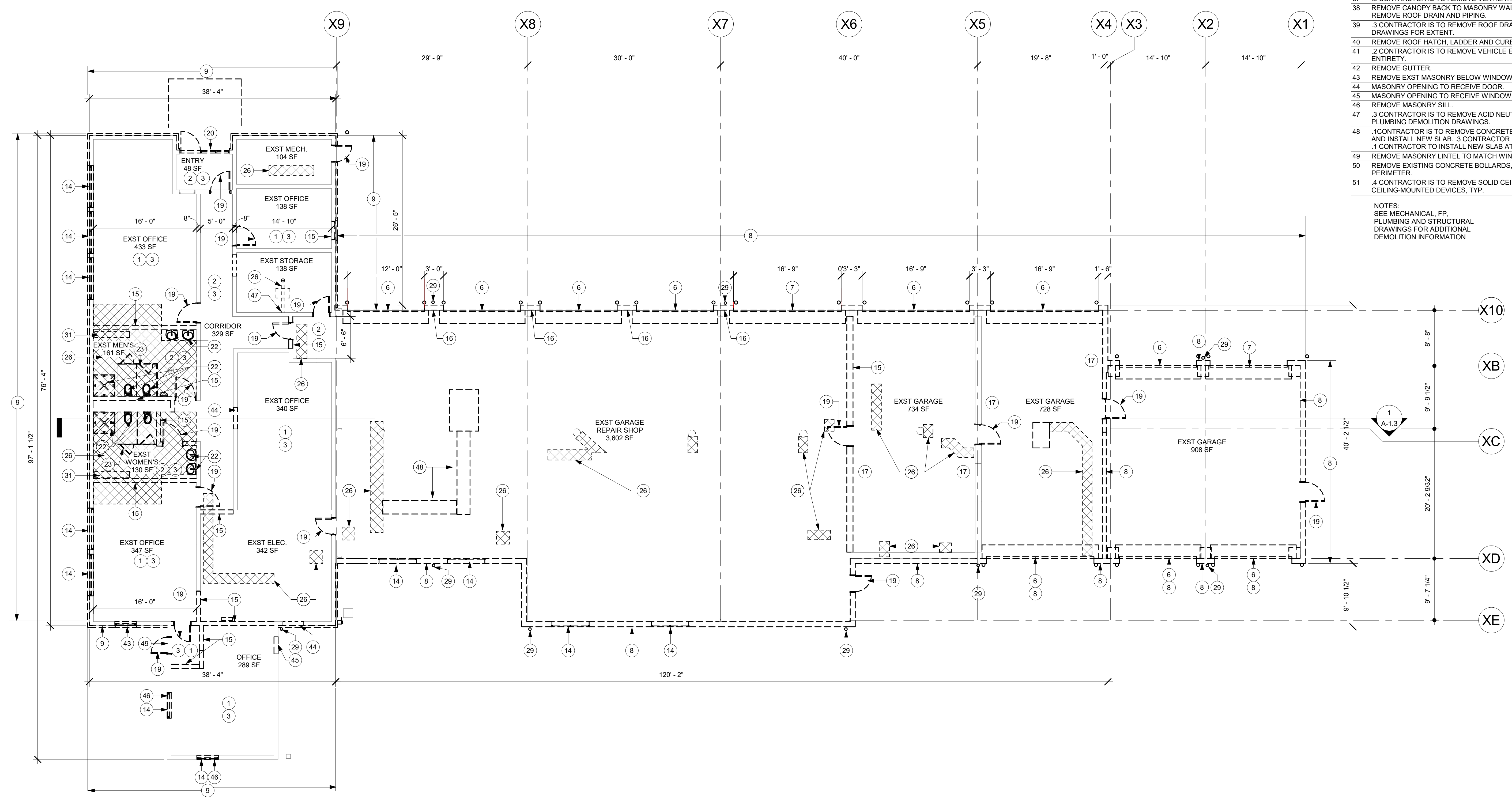
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DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-2.02
CHECKED BY JE	SCALE AS NOTED	

- GENERAL DEMOLITION NOTES
- VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.
 - MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.
 - EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.
 - PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.
 - RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.
 - WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.
 - WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.
 - WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.
 - SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS, PIPING, AND FIXTURES NOT SHOWN.
 - ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 LEAD IN CONSTRUCTION STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 FOR ADDITIONAL INFORMATION.

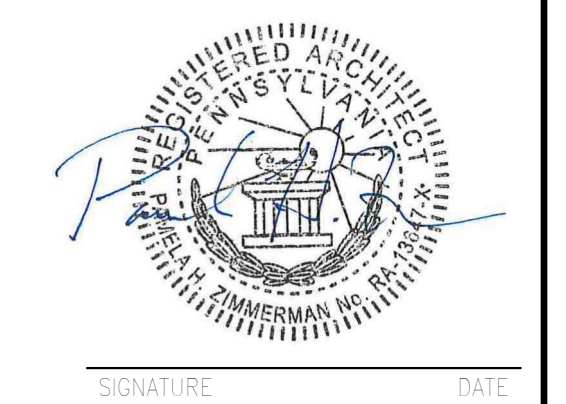
- KEYED DEMOLITION NOTES
- REMOVE CARPET.
 - REMOVE VCT.
 - CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
 - CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
 - CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED (8 TOTAL).
 - CONTRACTOR IS TO REMOVE OVERHEAD DOOR. CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS.
 - CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR.
 - REMOVE INTERIOR AND EXTERIOR MTL, SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN.
 - REMOVE MTL SIDING.
 - REMOVE SINGLE MEMBRANE ROOF.
 - REMOVE MTL, ROOF PANEL.
 - CONTRACTOR IS TO REMOVE AHU.
 - REMOVE MTL, GRAVEL STOP.
 - REMOVE WINDOW.
 - REMOVE MASONRY PARTITION.
 - CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
 - CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT.
 - REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING.
 - REMOVE DOOR, FRAME, AND HARDWARE.
 - REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY.
 - REMOVE FLASHING.
 - CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS.
 - CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES.
 - CONTRACTOR IS TO SAW CUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. SEE PLUMBING DEMOLITION DRAWINGS.
 - CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS.
 - CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.
 - REMOVE OVERHEAD CRANE.
 - REMOVE EXISTING LOCKERS.
 - REMOVE INSULATION, AND MTL, ROOF.
 - REMOVE INSULATION.
 - CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN ITS ENTIRETY. CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT. CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - CONTRACTOR IS TO REMOVE VENTILATION PIPE. SEE PLUMBING DRAWINGS FOR EXTENT.
 - REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING.
 - CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASSOCIATED PIPING. SEE PLUMBING DEMO DRAWINGS FOR EXTENT.
 - REMOVE ROOF HATCH, LADDER AND CURB.
 - CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY.
 - REMOVE GUTTER.
 - REMOVE EXIST MASONRY BELOW WINDOW.
 - MASONRY OPENING TO RECEIVE DOOR.
 - MASONRY OPENING TO RECEIVE WINDOW.
 - REMOVE MASONRY SILL.
 - CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASSOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS.
 - CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. CONTRACTOR IS TO INSTALL NEW SLAB AT TRENCH.
 - REMOVE MASONRY LINTEL TO MATCH WINDOW & HEIGHT. SEE STRUCTURAL DRAWINGS.
 - REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2" BELOW GRADE. TYP AROUND BUILDING PERIMETER.
 - CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

NOTES:
SEE MECHANICAL, FP,
PLUMBING AND STRUCTURAL
DRAWINGS FOR ADDITIONAL
DEMOLITION INFORMATION



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ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

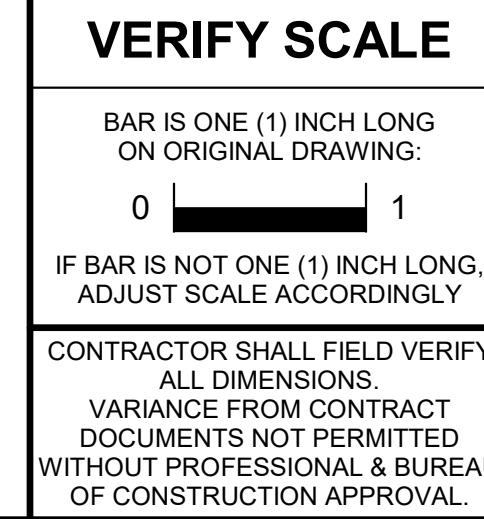
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
DEMOLITION PLAN

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-1.0
	CHECKED BY AK	SCALE As indicated	

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR



1 DEMOLITION PLAN
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

A. VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.

B. MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.

C. EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.

D. PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.

E. RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.

F. WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX, COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.

G. WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.

H. WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.

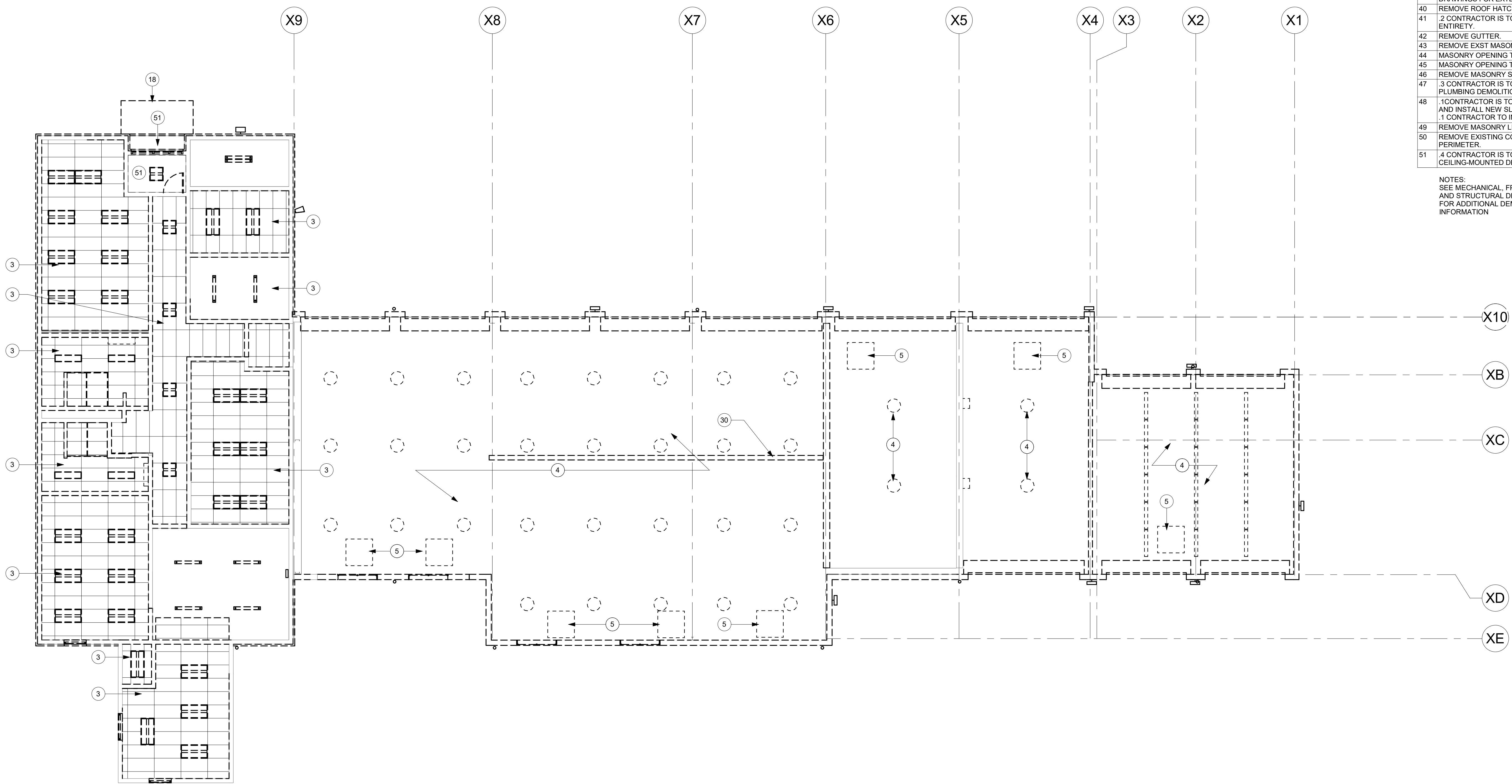
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J. ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 LEAD IN CONSTRUCTION STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 FOR ADDITIONAL INFORMATION.

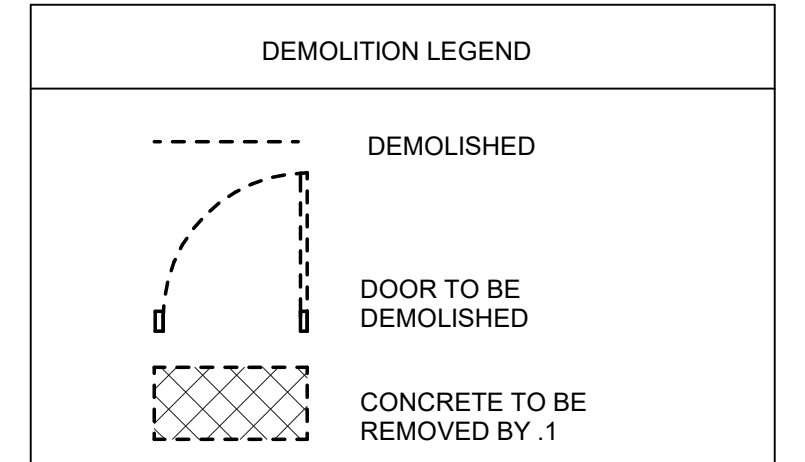
KEYED DEMOLITION NOTES

- 1 REMOVE CARPET.
- 2 REMOVE VCT.
- 3 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
- 4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
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- 8 REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN.
- 9 REMOVE MTL. SIDING.
- 10 REMOVE SINGLE MEMBRANE ROOF.
- 11 REMOVE MTL. ROOF PANEL.
- 12 CONTRACTOR IS TO REMOVE AHU.
- 13 REMOVE MTL. GRAVEL STOP.
- 14 REMOVE WINDOW.
- 15 REMOVE MASONRY PARTITION.
- 16 CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
- 17 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT.
- 18 REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING.
- 19 REMOVE DOOR, FRAME, AND HARDWARE.
- 20 REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY.
- 21 REMOVE FLASHING.
- 22 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS.
- 23 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES.
- 26 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. 3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS.
- 29 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. 3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. 1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.
- 30 REMOVE OVERHEAD CRANE.
- 31 REMOVE EXISTING LOCKERS.
- 32 REMOVE INSULATION, AND MTL. ROOF.
- 34 REMOVE INSULATION.
- 35 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN ITS ENTIRETY. 3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
- 36 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
- 37 CONTRACTOR IS TO REMOVE VENTILATION PIPE. SEE PLUMBING DRAWINGS FOR EXTENT.
- 38 REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING.
- 39 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASSOCIATED PIPING. SEE PLUMBING DEMO DRAWINGS FOR EXTENT.
- 40 REMOVE ROOF HATCH, LADDER AND CURB.
- 41 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY.
- 42 REMOVE GUTTER.
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- 45 MASONRY OPENING TO RECEIVE WINDOW.
- 46 REMOVE MASONRY SILL.
- 47 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASSOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS.
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- 49 REMOVE MASONRY LINTEL TO MATCH WINDOW 8 HEIGHT. SEE STRUCTURAL DRAWINGS.
- 50 REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2" BELOW GRADE. TYP AROUND BUILDING PERIMETER.
- 51 CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

NOTES:
SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION

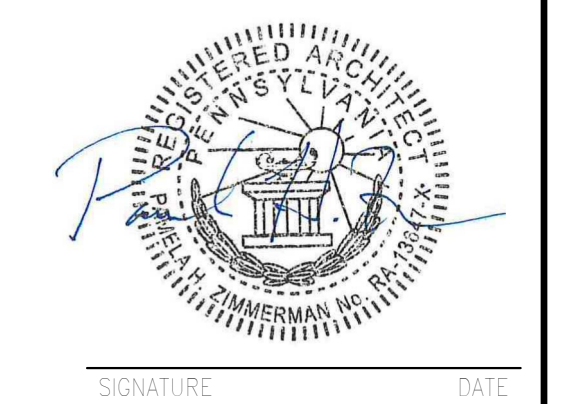


1 REFLECTED CEILING DEMOLITION PLAN
1/8" = 1'-0"



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BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
CEILING DEMOLITION PLAN

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DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-1.1
CHECKED BY AK	SCALE As Indicated	

GENERAL DEMOLITION NOTES

A. VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.

B. MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.

C. EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.

D. PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.

E. RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.

F. WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.

G. WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.

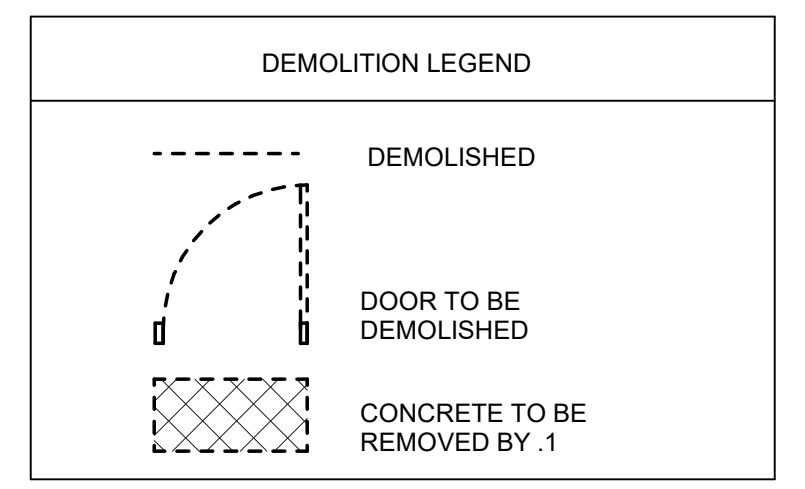
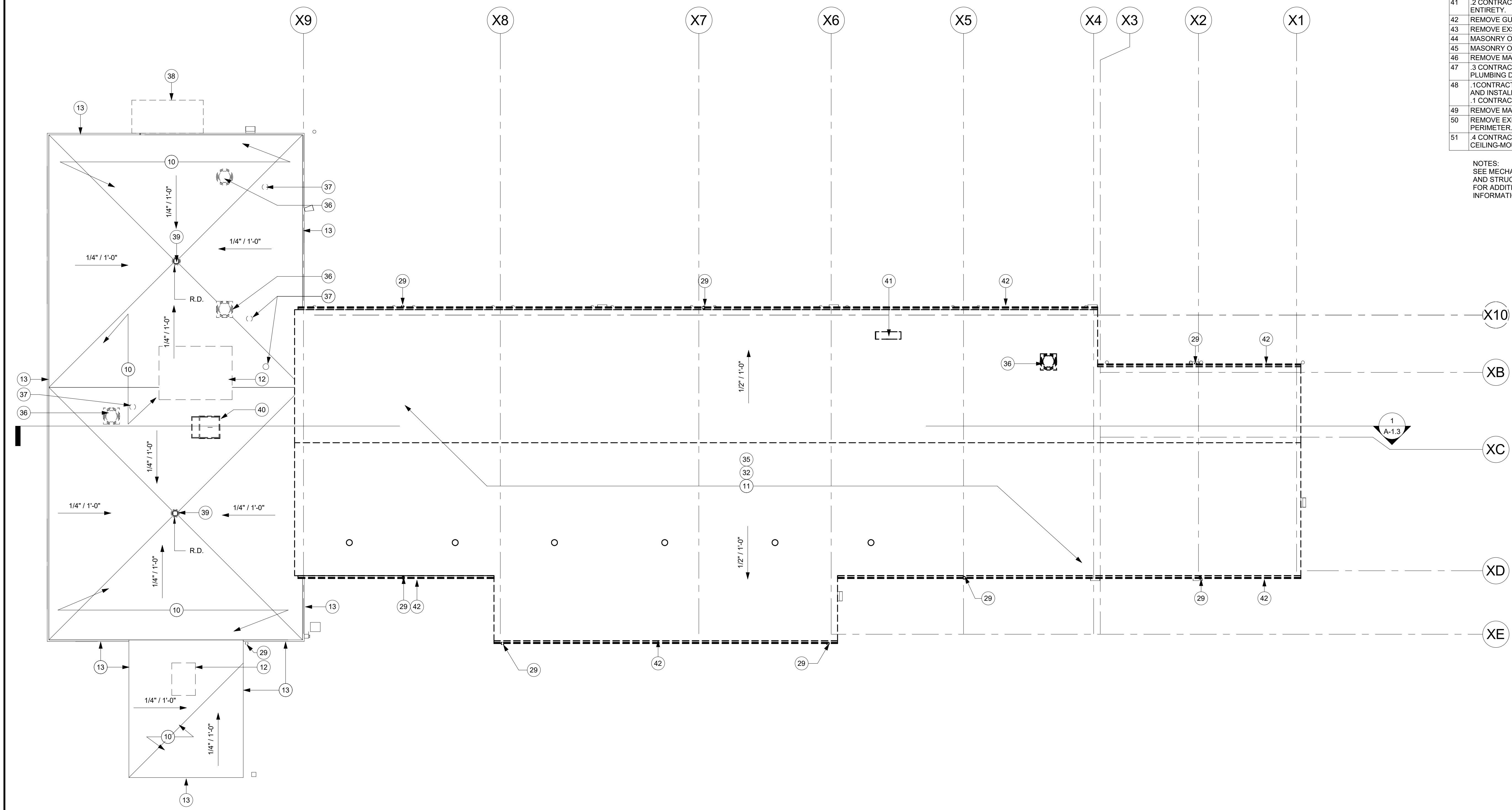
H. WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.

I. SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS, PIPING, AND FIXTURES NOT SHOWN.

J. ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 'LEAD IN CONSTRUCTION' STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 FOR ADDITIONAL INFORMATION.

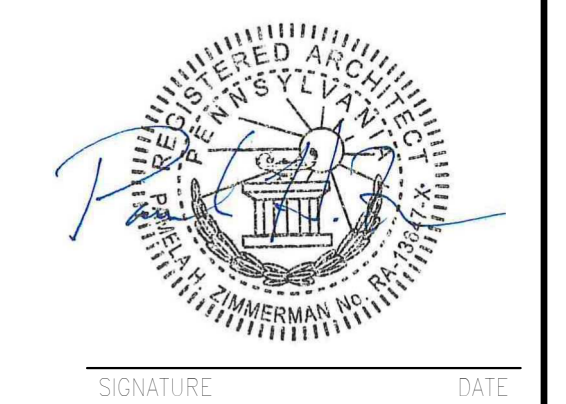
- KEYED DEMOLITION NOTES**
- 1 REMOVE CARPET.
 - 2 REMOVE VCT.
 - 3 4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
 - 4 4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
 - 5 2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED IN TOTAL.
 - 6 CONTRACTOR IS TO REMOVE OVERHEAD DOOR. 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS.
 - 7 REMOVE OVERHEAD DOOR. 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR.
 - 8 REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN.
 - 9 REMOVE MTL. SIDING.
 - 10 REMOVE SINGLE MEMBRANE ROOF.
 - 11 REMOVE MTL. ROOF PANEL.
 - 12 2 CONTRACTOR IS TO REMOVE AHU.
 - 13 REMOVE MTL. GRAVEL STOP.
 - 14 REMOVE WINDOW.
 - 15 REMOVE MASONRY PARTITION.
 - 16 2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
 - 17 2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT.
 - 18 REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING.
 - 19 REMOVE DOOR, FRAME, AND HARDWARE.
 - 20 REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY.
 - 21 REMOVE FLASHING.
 - 22 3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS.
 - 23 1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES.
 - 26 1 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. 3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS.
 - 29 1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. 3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. 1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.
 - 30 REMOVE OVERHEAD CRANE.
 - 31 REMOVE EXISTING LOCKERS.
 - 32 REMOVE INSULATION, AND MTL. ROOF.
 - 34 REMOVE INSULATION.
 - 35 2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN ITS ENTIRETY. 3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - 36 2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - 37 2 CONTRACTOR IS TO REMOVE VENTILATION PIPE. SEE PLUMBING DRAWINGS FOR EXTENT.
 - 38 REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING.
 - 39 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASSOCIATED PIPING. SEE PLUMBING DEMO DRAWINGS FOR EXTENT.
 - 40 REMOVE ROOF HATCH, LADDER AND CURB.
 - 41 2 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY.
 - 42 REMOVE GUTTER.
 - 43 REMOVE EXST MASONRY BELOW WINDOW.
 - 44 MASONRY OPENING TO RECEIVE DOOR.
 - 45 MASONRY OPENING TO RECEIVE WINDOW.
 - 46 REMOVE MASONRY SILL.
 - 47 3 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASSOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS.
 - 48 1 CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. 3 CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. 1 CONTRACTOR TO INSTALL NEW SLAB AT TRENCH.
 - 49 REMOVE MASONRY LINTEL TO MATCH WINDOW B HEIGHT. SEE STRUCTURAL DRAWINGS.
 - 50 REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2' BELOW GRADE, TYP AROUND BUILDING PERIMETER.
 - 51 4 CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

NOTES:
SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION



BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT - REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

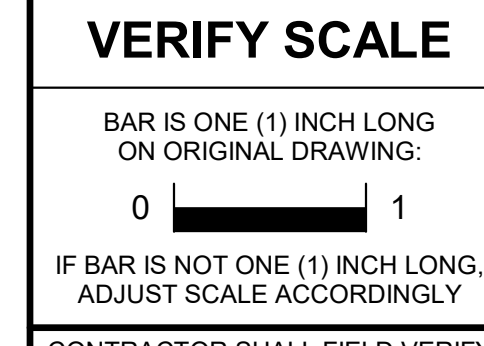
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

ROOF DEMOLITION PLAN

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-1.2
	CHECKED BY AK	SCALE As Indicated	

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR



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

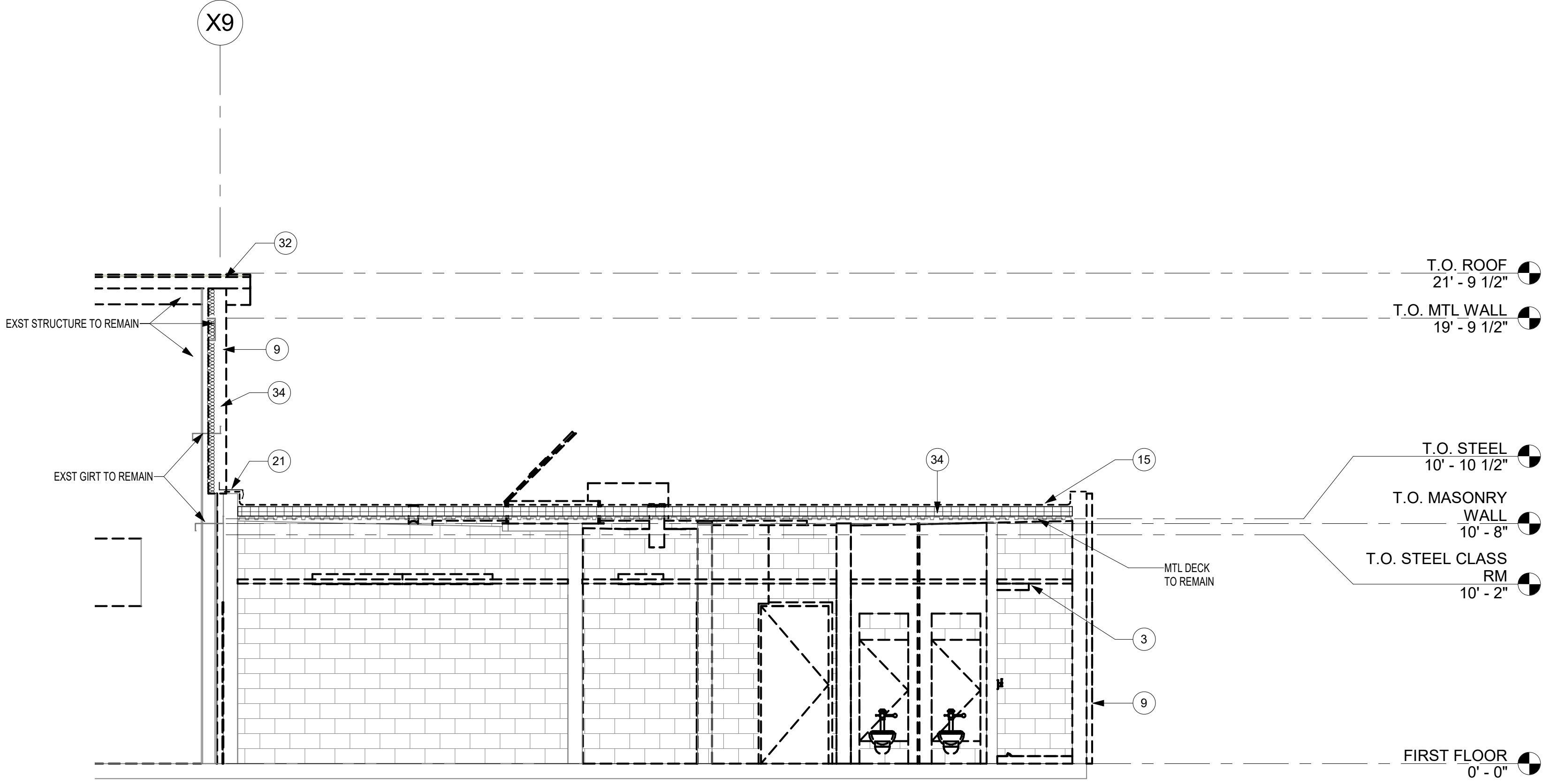
GENERAL DEMOLITION NOTES

- A. VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.
- B. MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.
- C. EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.
- D. PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.
- E. RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.
- F. WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.
- G. WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.
- H. WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.
- I. SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS, PIPING, AND FIXTURES NOT SHOWN.
- J. ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 'LEAD IN CONSTRUCTION' STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 FOR ADDITIONAL INFORMATION.

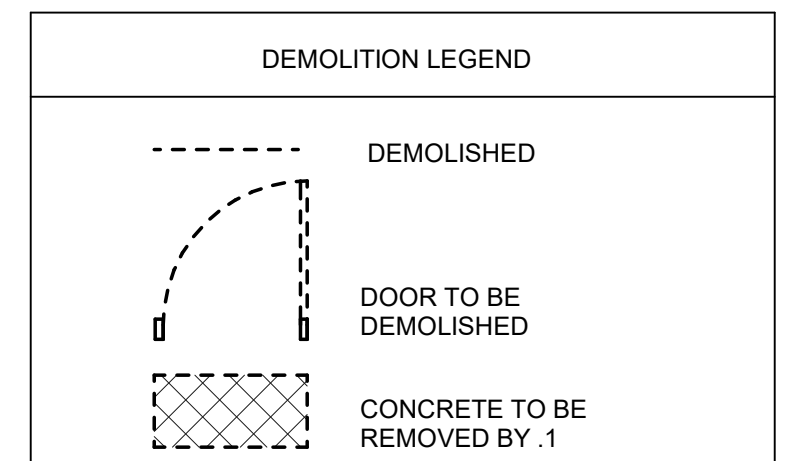
KEYED DEMOLITION NOTES

- 1 REMOVE CARPET.
- 2 REMOVE VCT.
- 3 4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
- 4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
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- CONTRACTOR IS TO REMOVE OVERHEAD DOOR, 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR.
- REMOVE INTERIOR AND EXTERIOR MTL SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN.
- REMOVE MTL SIDING.
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- 2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
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NOTES:
SEE MECHANICAL, FP, PLUMBING
AND STRUCTURAL DRAWINGS
FOR ADDITIONAL DEMOLITION
INFORMATION



1 LONGITUDINAL DEMOLITION SECTION
1/4" = 1'-0"



BID SET	DESIGN DEVELOPMENT
08/28/2024	01/28/2024
CONSTRUCTION DOCUMENTS 10/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD- REVISIONS

Construction Document- August 26, 2024

SIGNATURE DATE

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

DEMOLITION SECTIONS

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY .2, .3, OR .4 CONTRACTOR

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

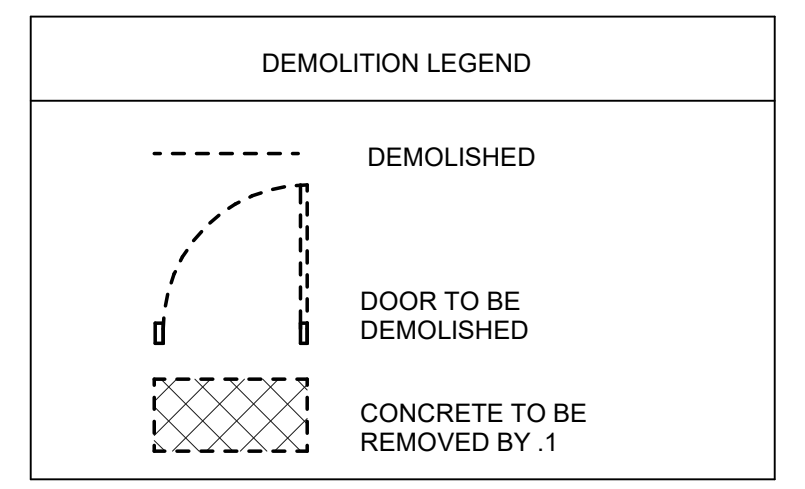
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY <i>IB</i>	DATE 08/26/2024	DRAWING No. A-1.3
CHECKED BY <i>AK</i>	SCALE As Indicated	

- GENERAL DEMOLITION NOTES
- VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.
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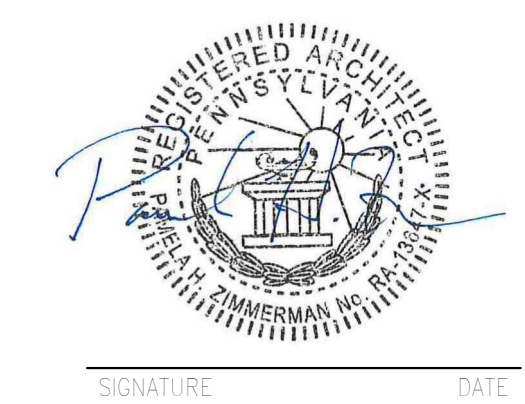
- KEYED DEMOLITION NOTES
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 - REMOVE VCT.
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NOTES:
SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION



REV SET	DESIGN DEVELOPMENT
08/26/2024	01/28/2024
CONSTRUCTION DOCUMENTS	REVISED
07/31/2024	
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

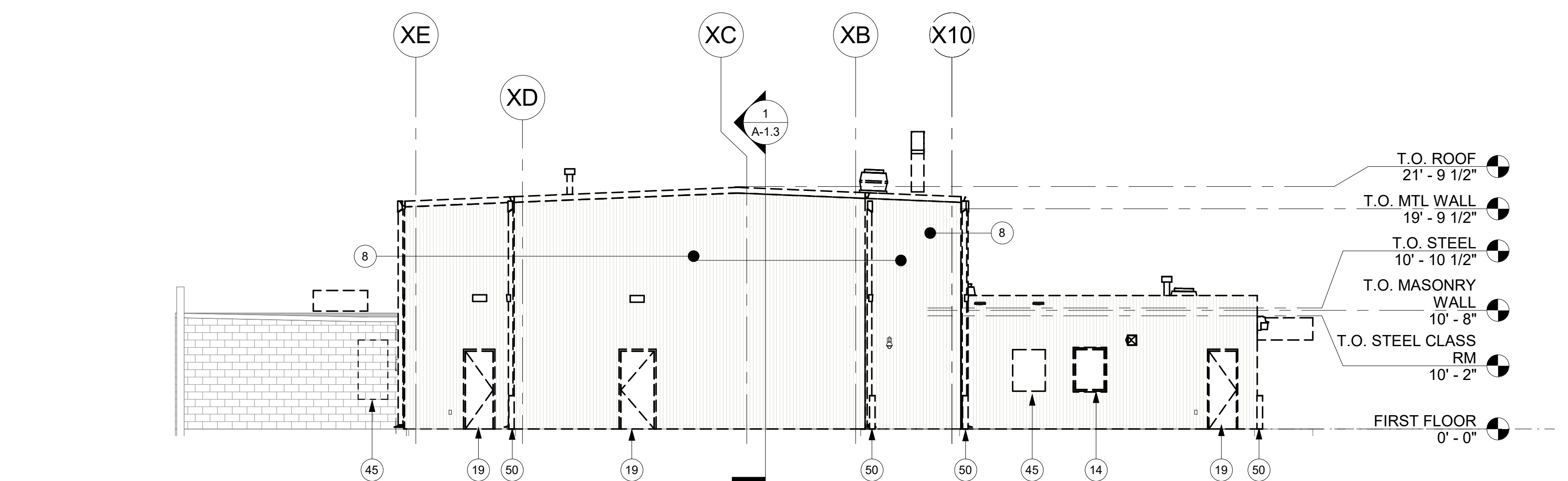
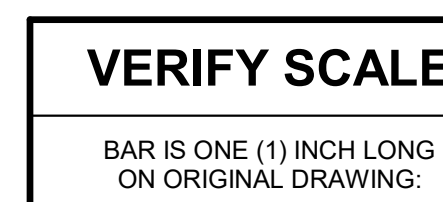
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

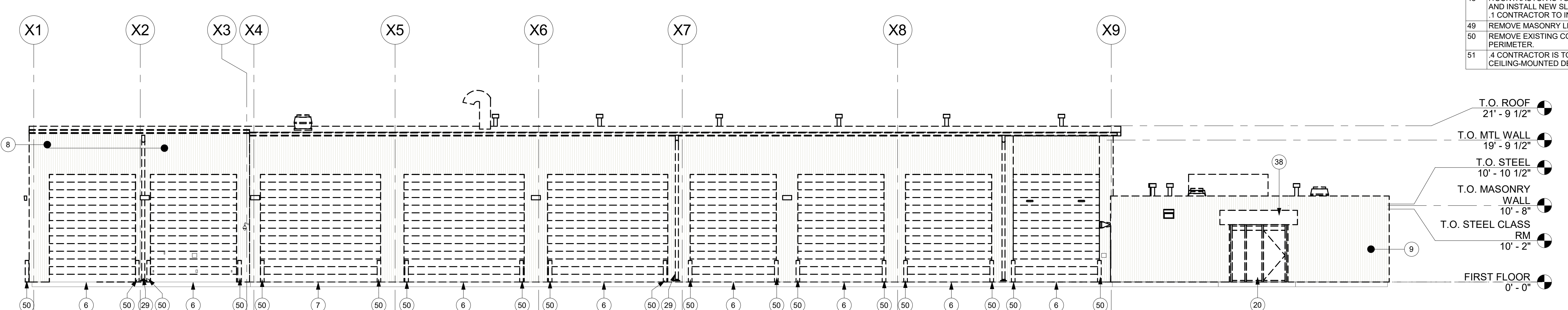
BUILDING DEMOLITION ELEVATIONS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-1.4
	CHECKED BY AK	SCALE As Indicated	

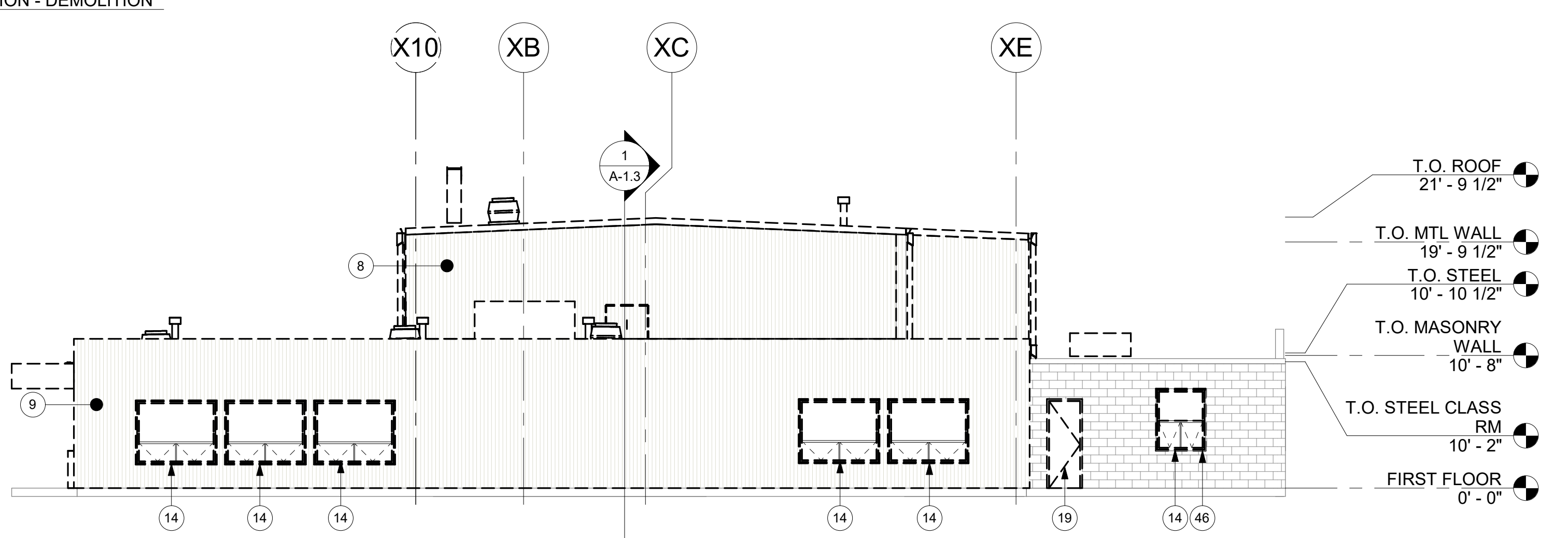
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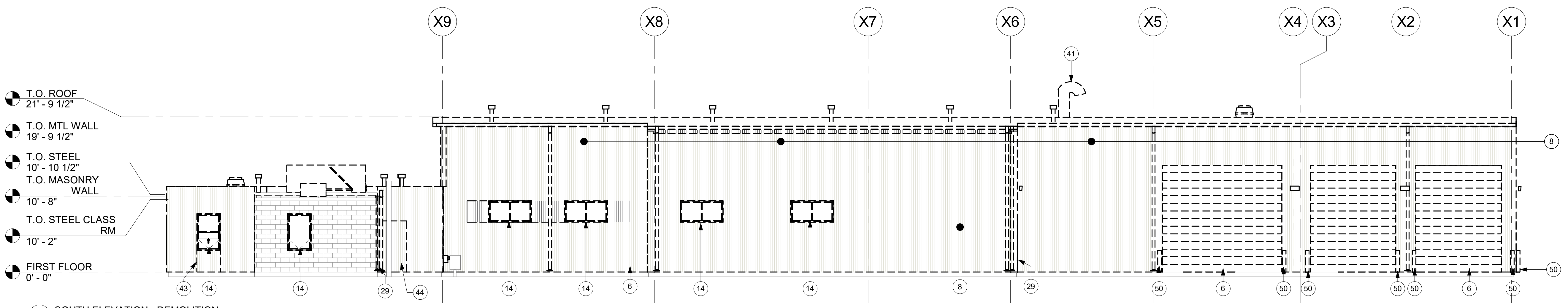
1 EAST ELEVATION - DEMOLITION
1/8" = 1'-0"



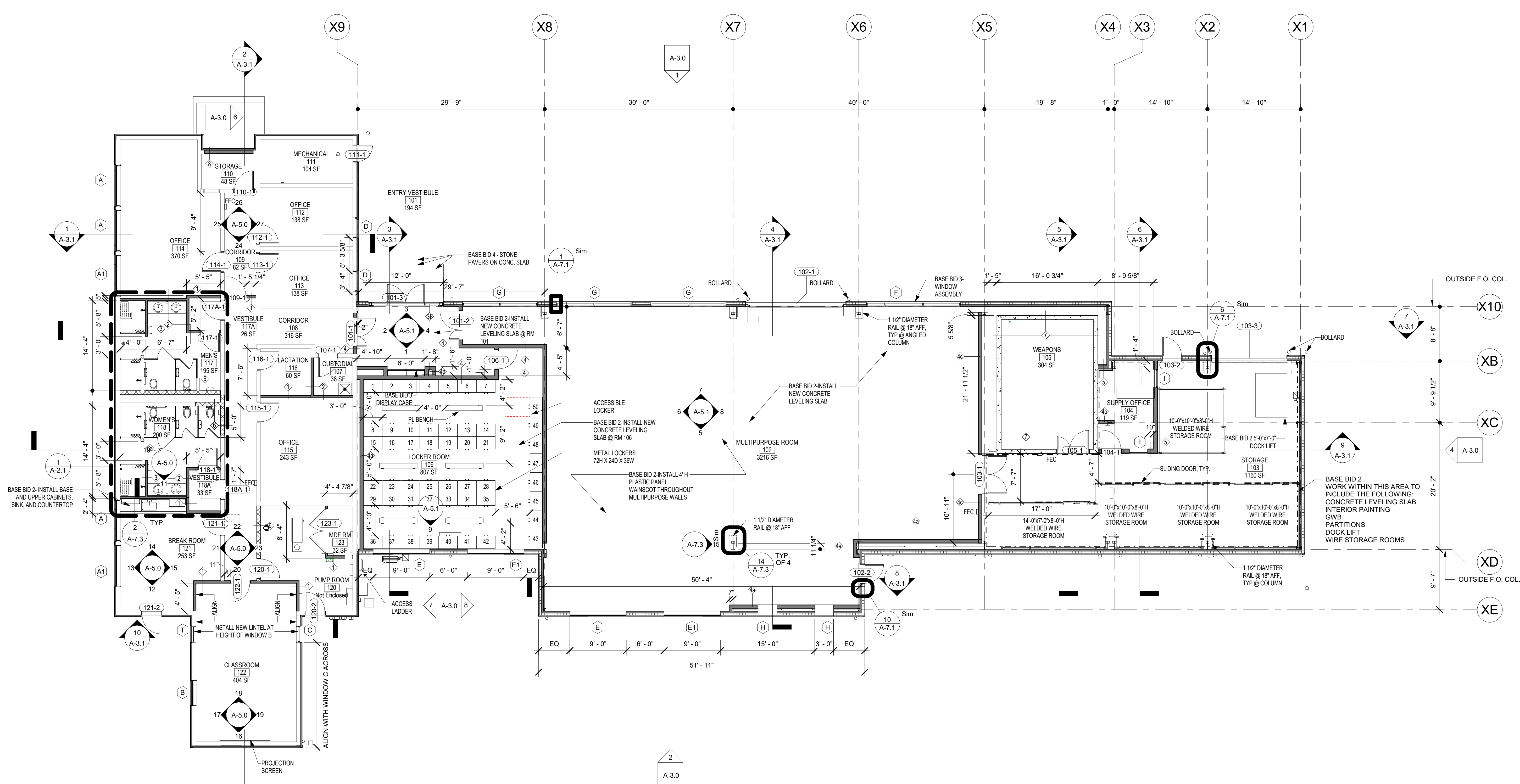
2 NORTH ELEVATION - DEMOLITION
1/8" = 1'-0"



3 WEST ELEVATION - DEMOLITION
1/8" = 1'-0"



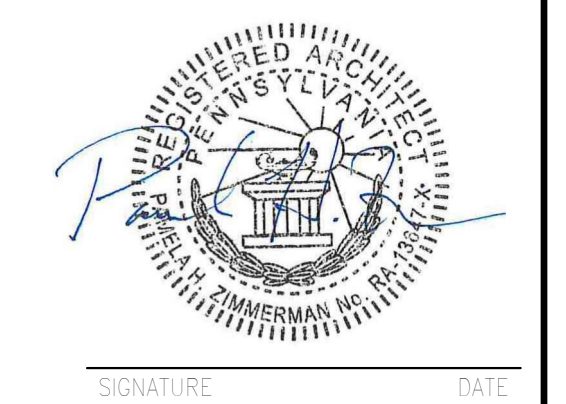
4 SOUTH ELEVATION - DEMOLITION
1/8" = 1'-0"



1 FLOOR PLAN 9.628.GSF
1/8" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/25/2024
CONSTRUCTION DOCUMENTS 10/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO **INC.**
ARCHITECTURE + PROJECT MANAGEMENT

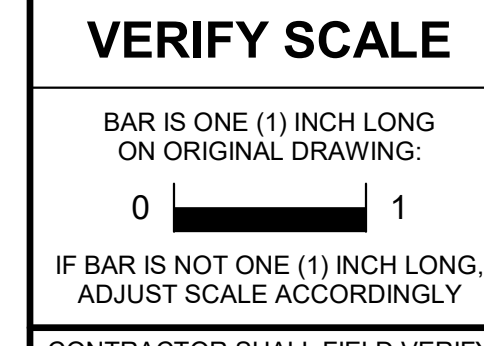
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

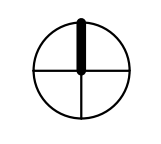
FLOOR PLAN

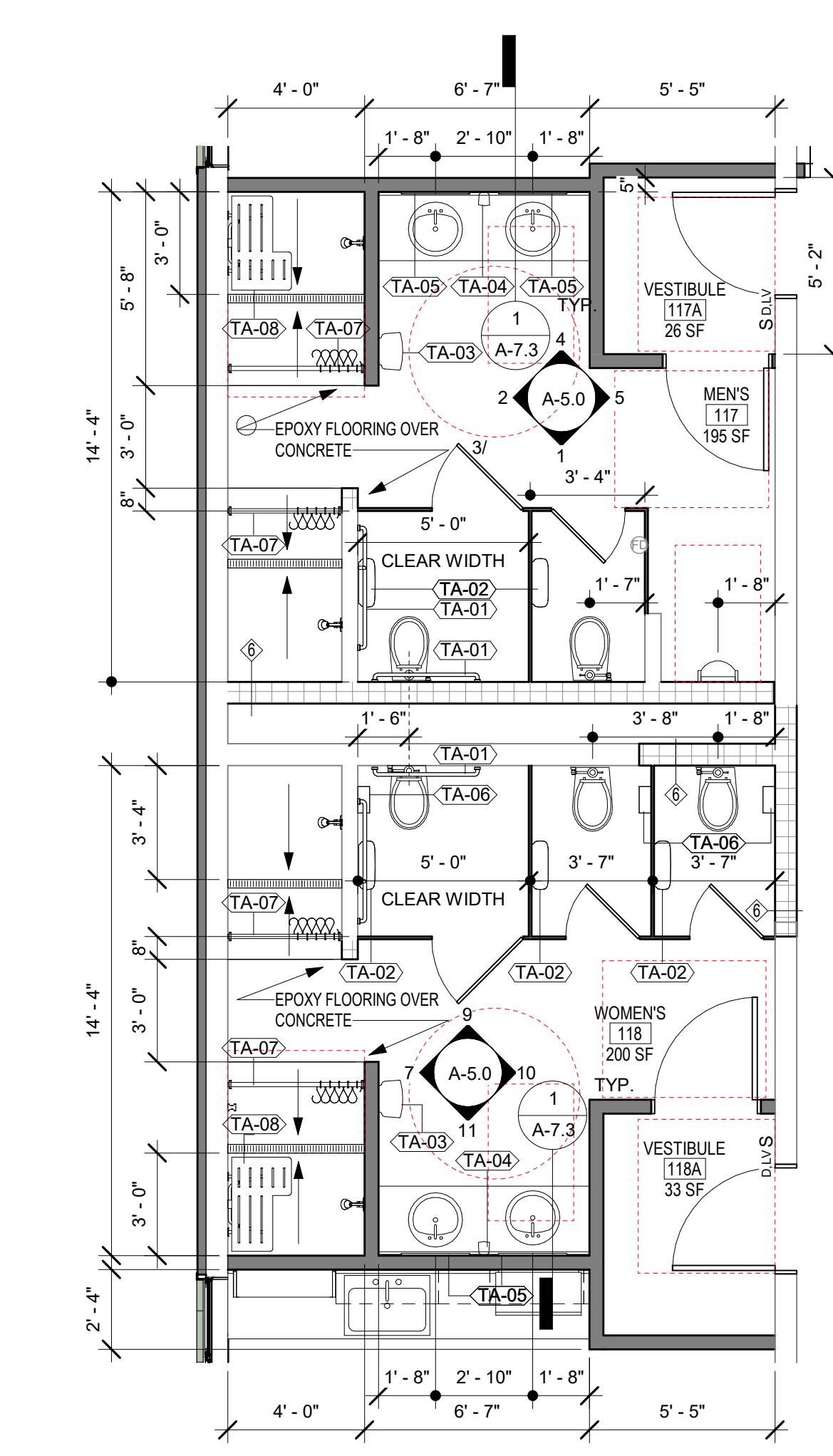
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DRAWN BY IB	DATE 08/26/2024	DRAWING No.
CHECKED BY AK	SCALE 1/8" = 1'-0"	A-2.0





1 BATHROOMS FLOOR PLAN
1/4" = 1'-0"

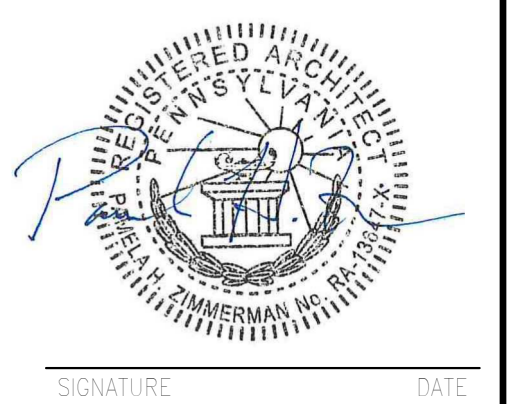
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0 1
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CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document- August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

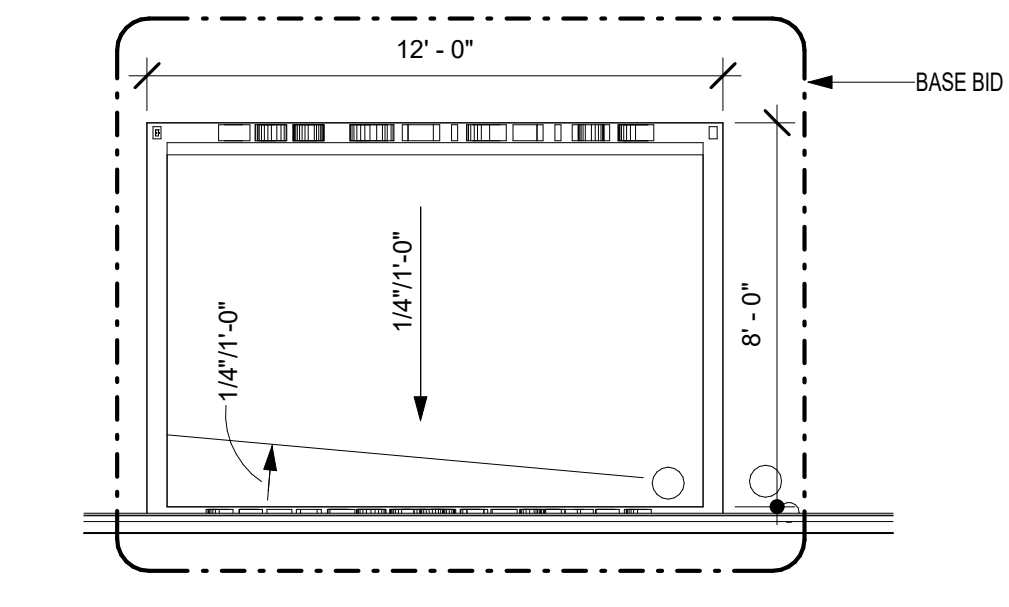
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

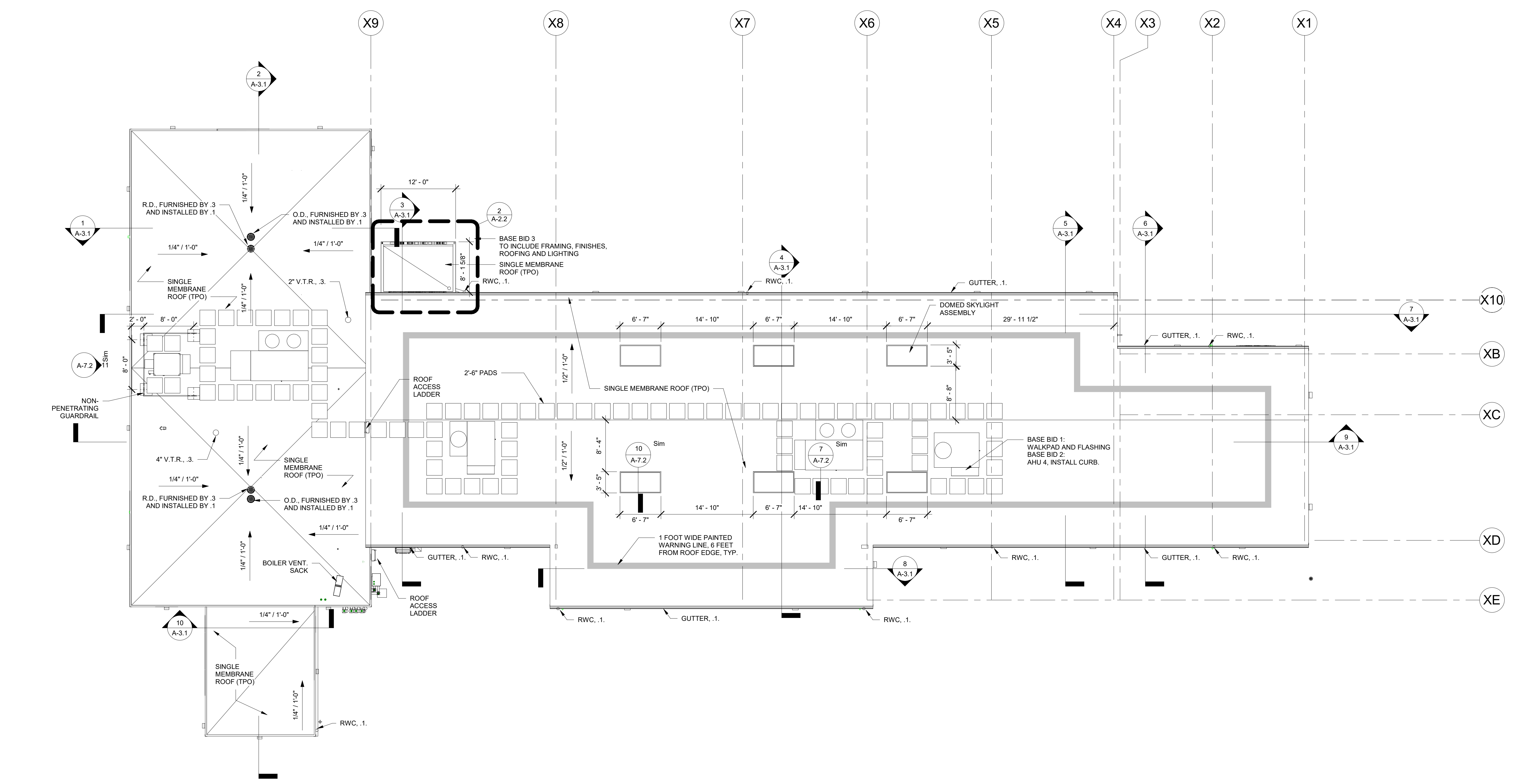
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

ENLARGED PLAN MEN'S & WOMEN'S

DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-2.1
CHECKED BY AK	SCALE 1/4" = 1'-0"	



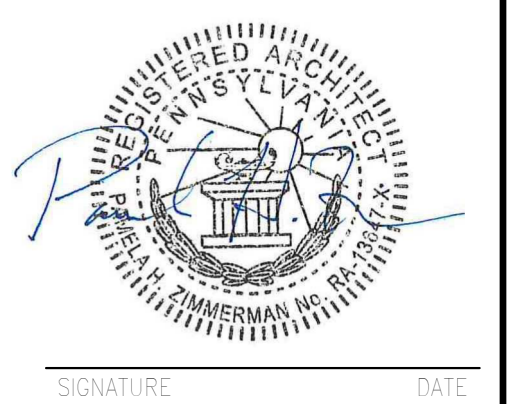
2 ROOF PLAN - CANOPY
1/4" = 1'-0"



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

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

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Construction Document - August 26, 2024



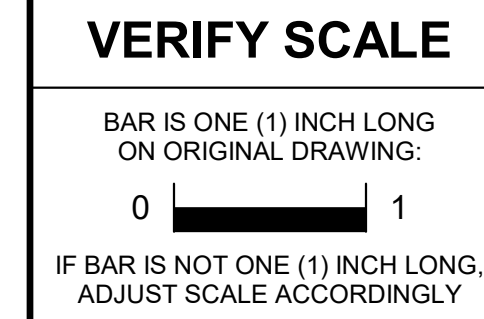
ZIMMERMAN STUDIO LLC
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

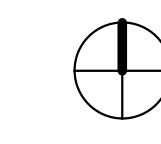
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
ROOF PLAN/ENLARGE CANOPY

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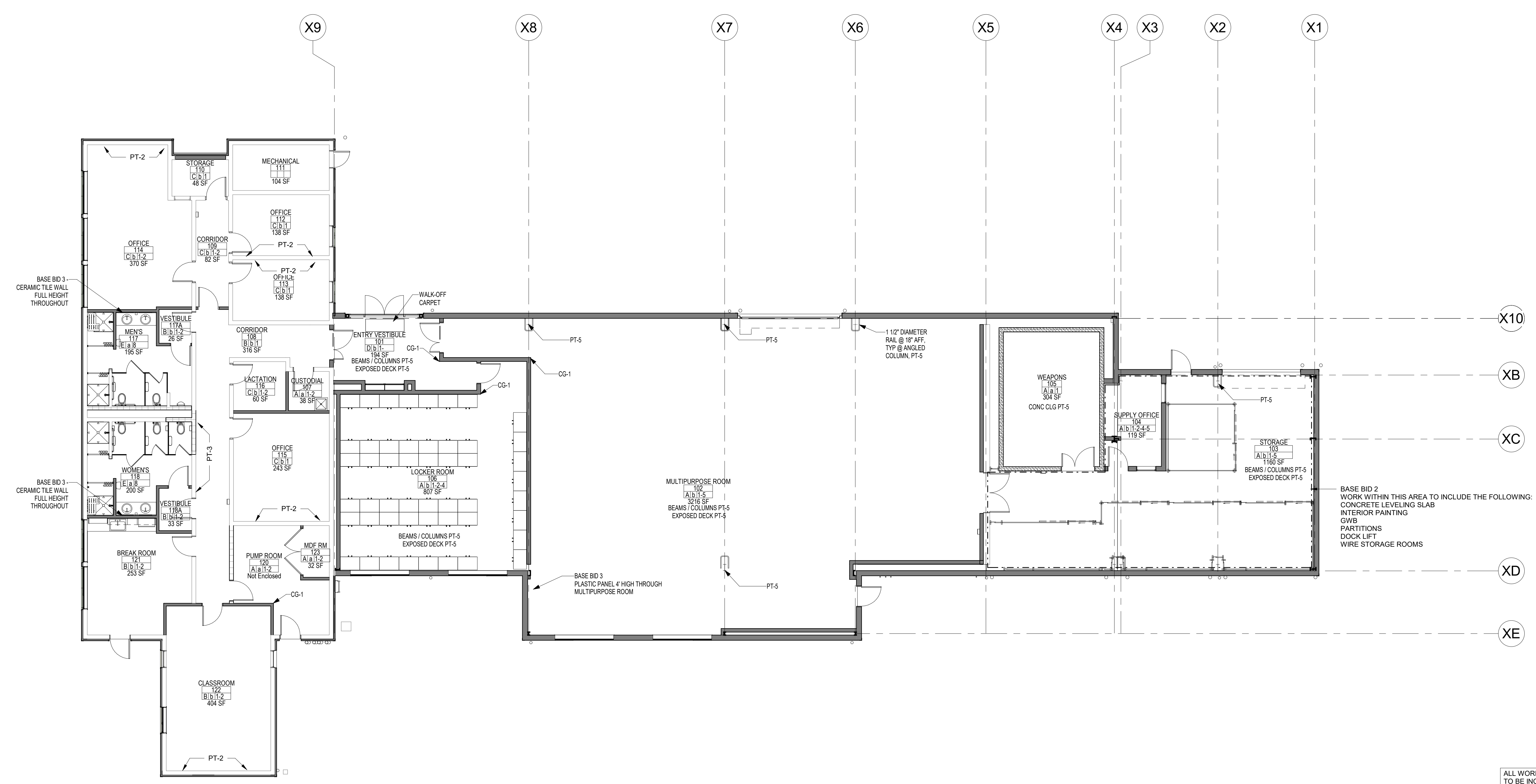
DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-2.2
CHECKED BY AK	SCALE As Indicated	



FLOOR FINISH SCHEDULE	
A	SEALED CONCRETE
B	VCT
C	CARPET TILE - CPT-1
D	CARPET TILE - CPT-2
E	EPOXY FLOORING - DECORATIVE QUARTZ

WALL BASE FINISH SCHEDULE	
a	EPOXY COVE
b	RUBBER COVE
c	PORCELAIN TILE COVE

WALL FINISH SCHEDULE	
1	PAINT - PT-1
2	PAINT - PT-2
3	PAINT - PT-3
4	PAINT - PT-4
5	PAINT - PT-5
6	PAINT - PT-6
7	PAINT - PT-7
8	FIBERGLASS REINFORCED PLASTIC (FRP)
9	PVC PANELING
10	CERAMIC WALL TILE (BASE BID 4) WT-1
11	CERAMIC WALL TILE (BASE BID 4) WT-2



1 FINISH PLAN
1/8" = 1'-0"

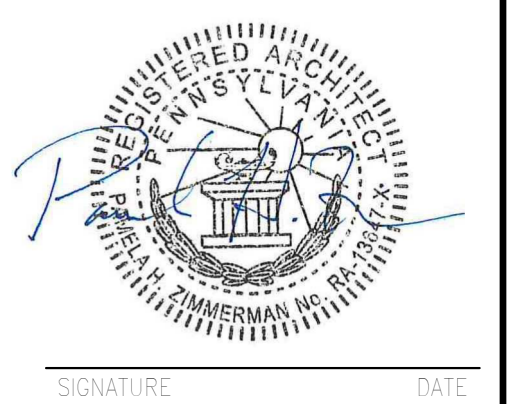
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BID SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	REVISION
07/31/2024	
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS
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ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

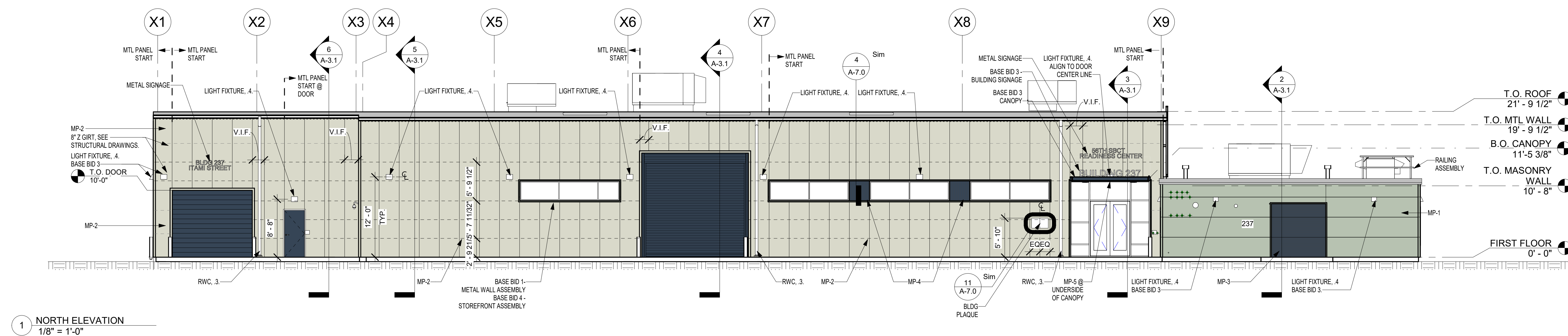
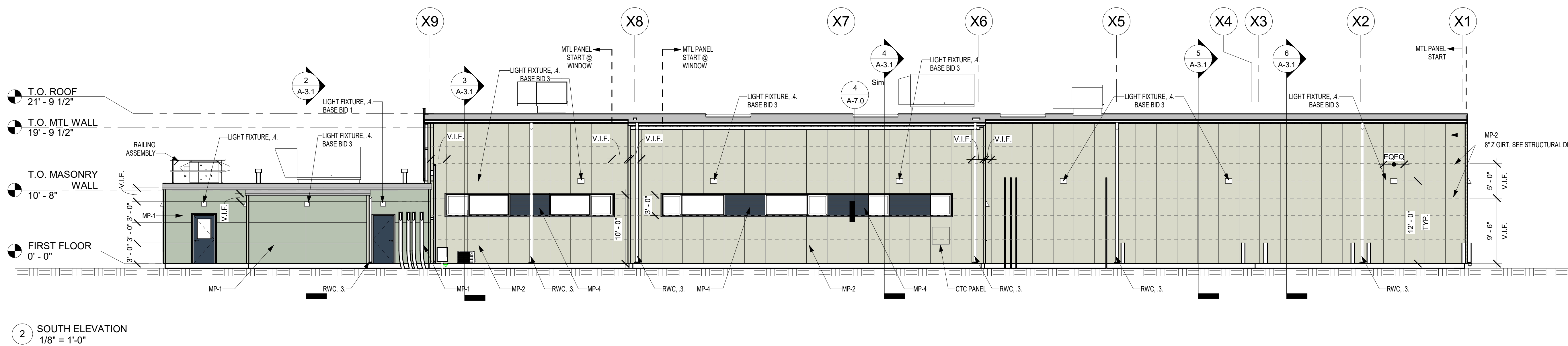
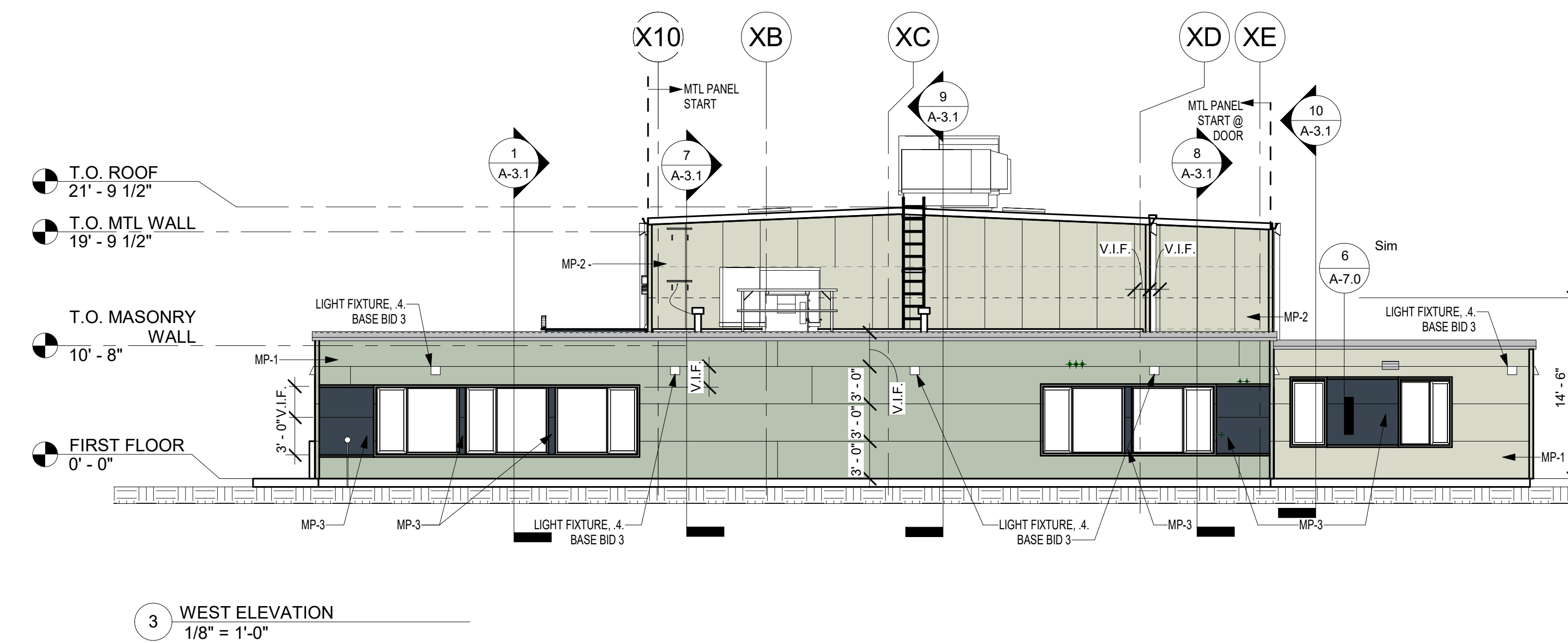
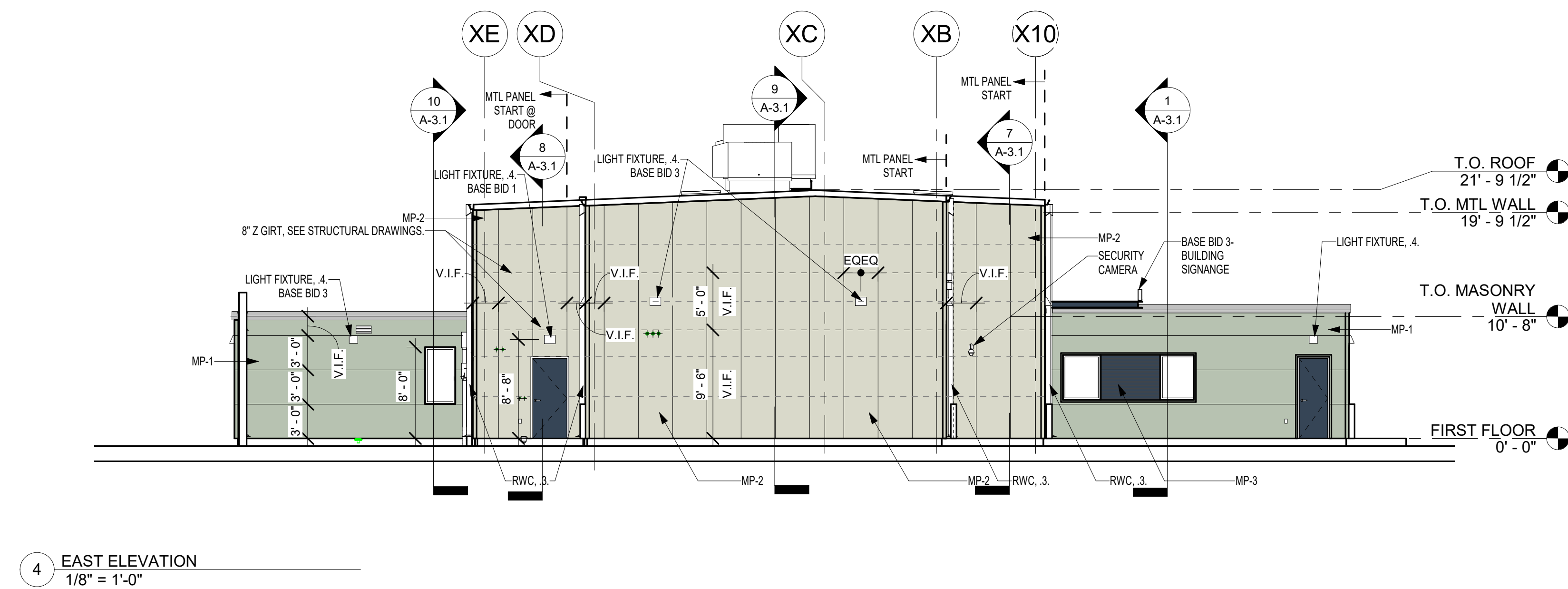
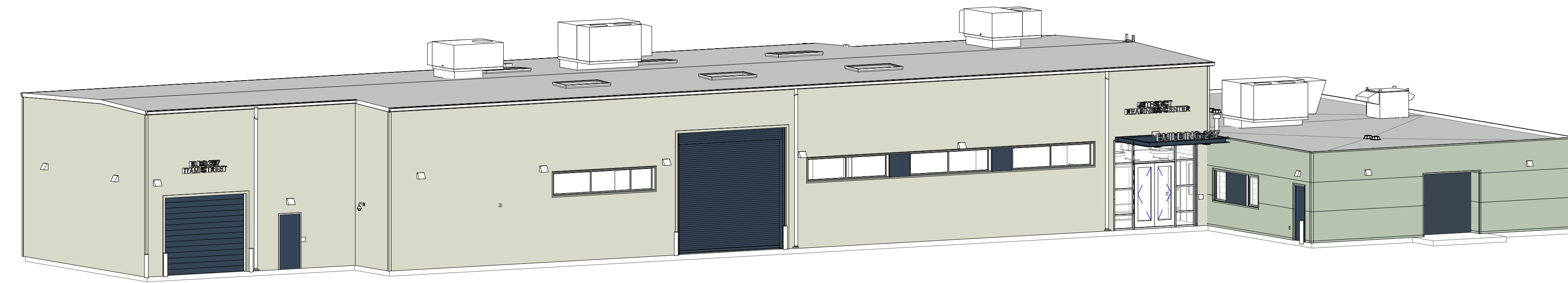
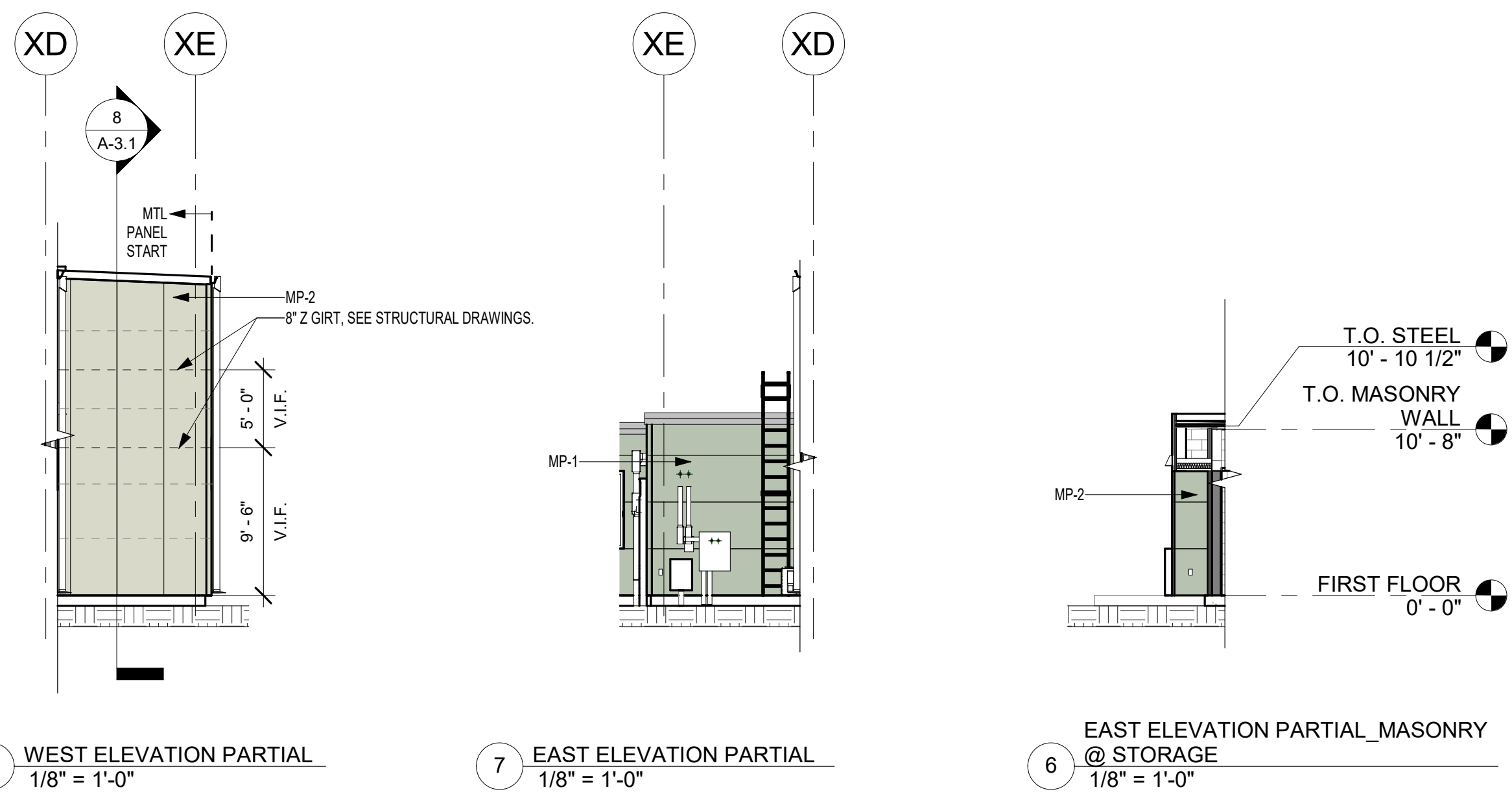
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

FINISH PLAN

DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-2.3
CHECKED BY AK	SCALE 1/8" = 1'-0"	



LEGEND

---	NEW 8" GRT
---	EXIST 8" GRT

METAL PANEL SCHEDULE

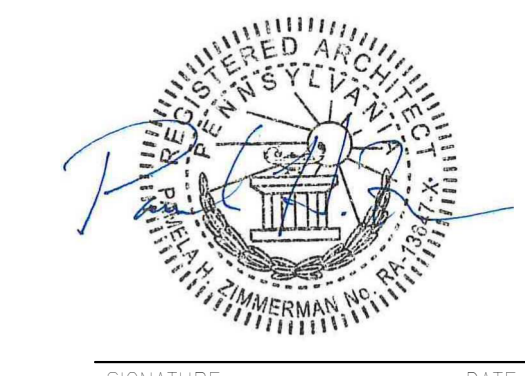
MP-1	HORIZONTAL GREEN MOSS, 3" THICK, 36" WIDE
MP-2	VERTICAL LIME STONE, 2 3/4" THICK, 36" WIDE
MP-3	HORIZONTAL CHARCOAL, 3" THICK, 36" WIDE
MP-4	VERTICAL CHARCOAL, 2 3/4" THICK, 36" WIDE
MP-5	CONCEALED FASTENER METAL PANEL, CHARCOAL

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ZIMMERMAN STUDIO
 ARCHITECTURE + PROJECT MANAGEMENT

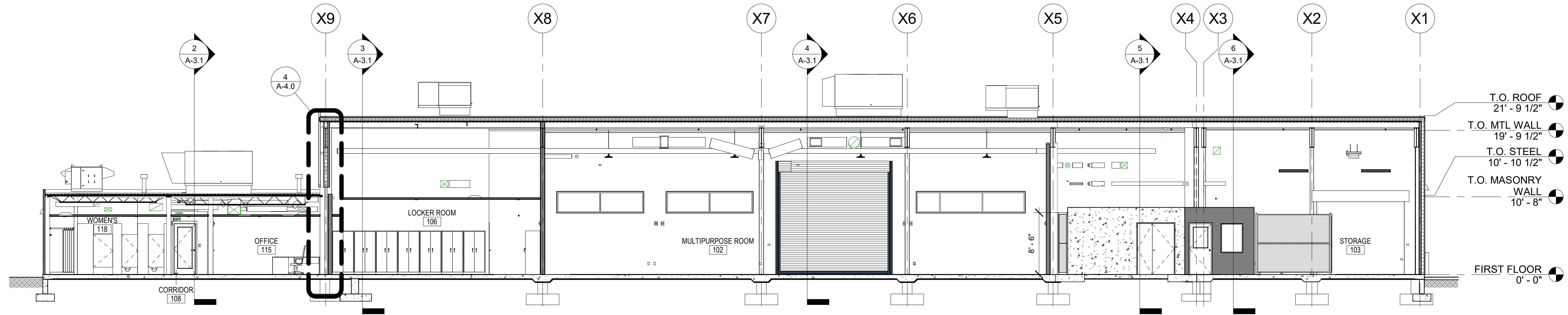
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
 DGS C-0961-0044 PHASE 01

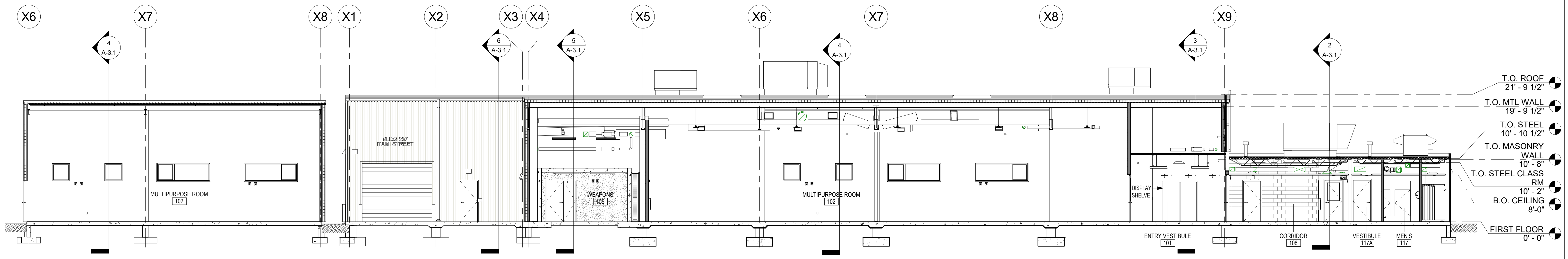
BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

BUILDING ELEVATIONS

DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-3.0
CHECKED BY AK	SCALE 1/8" = 1'-0"	

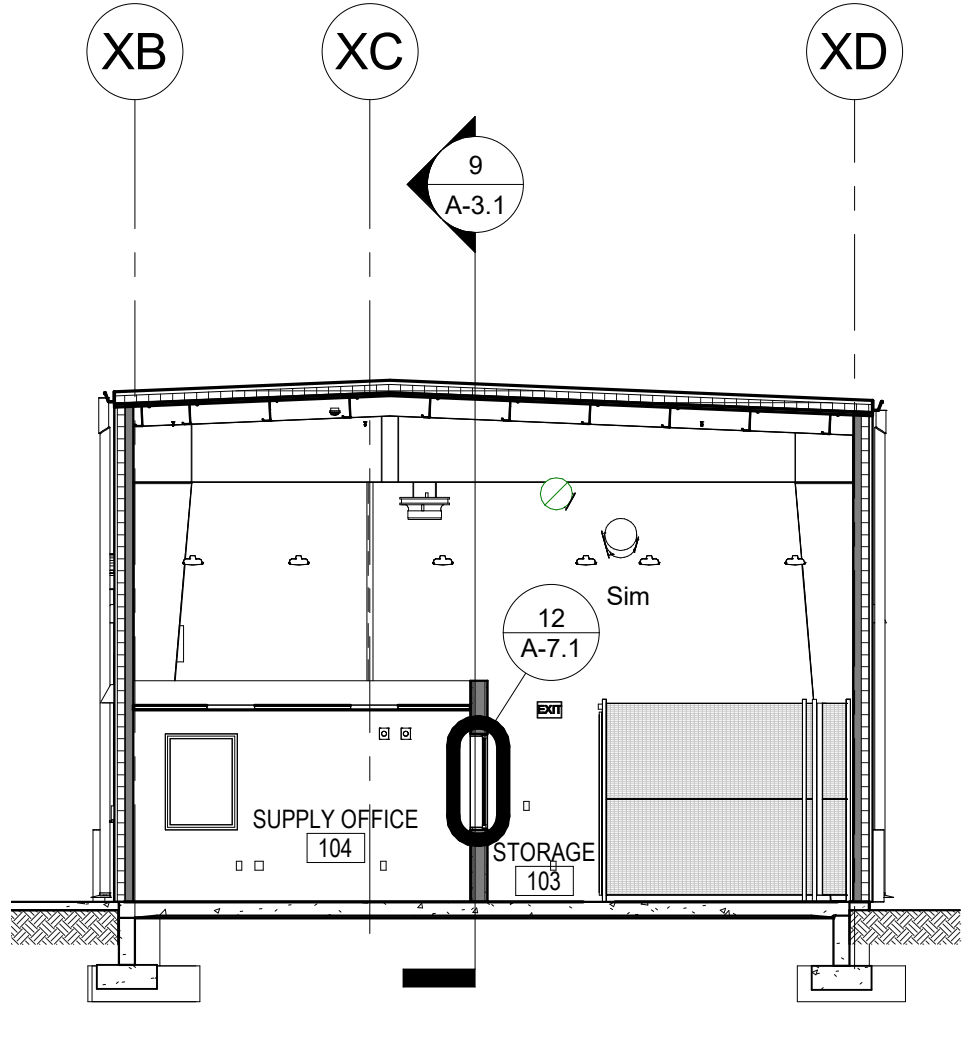


9 LONGITUDINAL SECTION 1
1/8" = 1'-0"

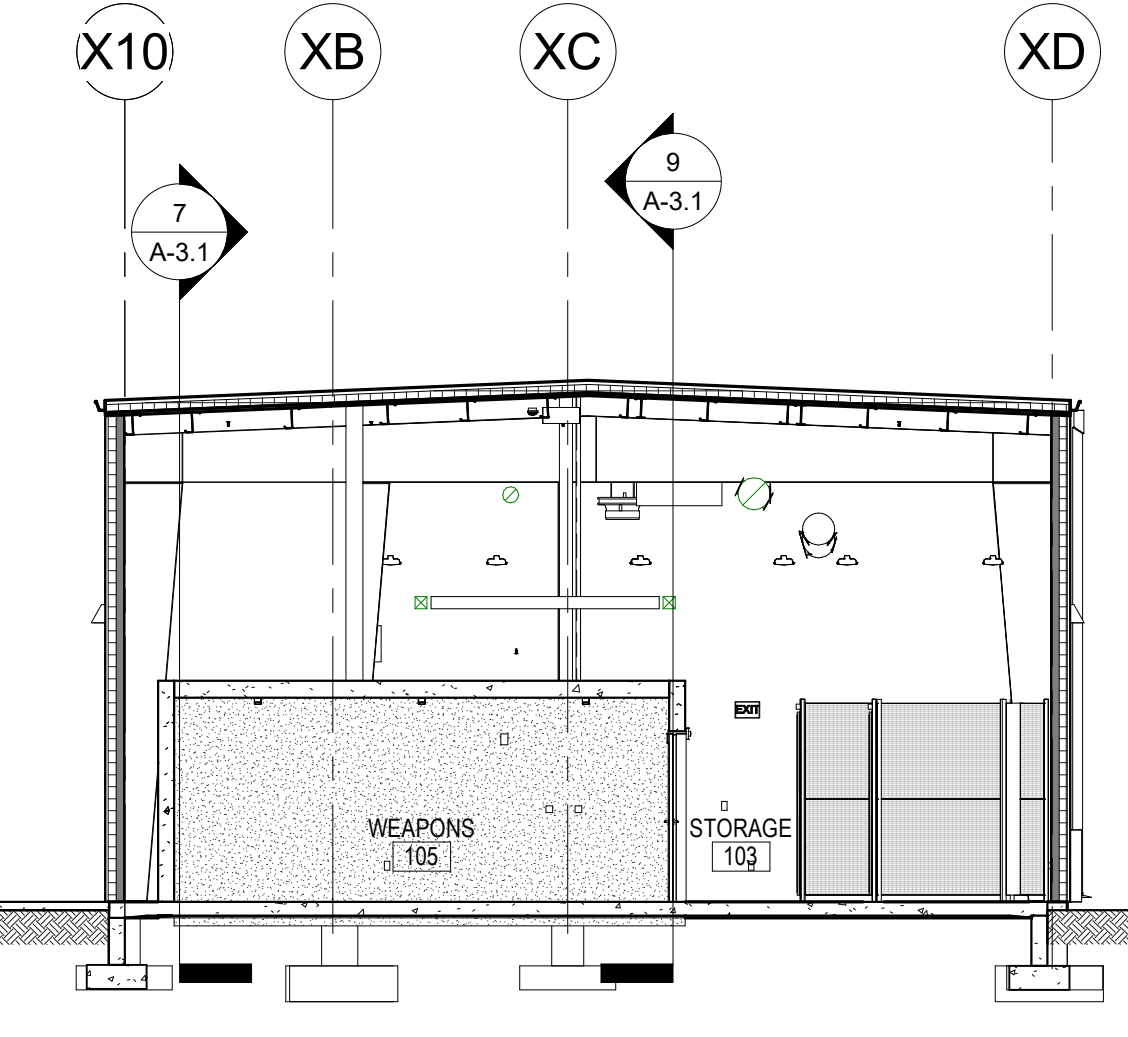


8 SECTION PARTIAL @ MULTIPORPUSE
1/8" = 1'-0"

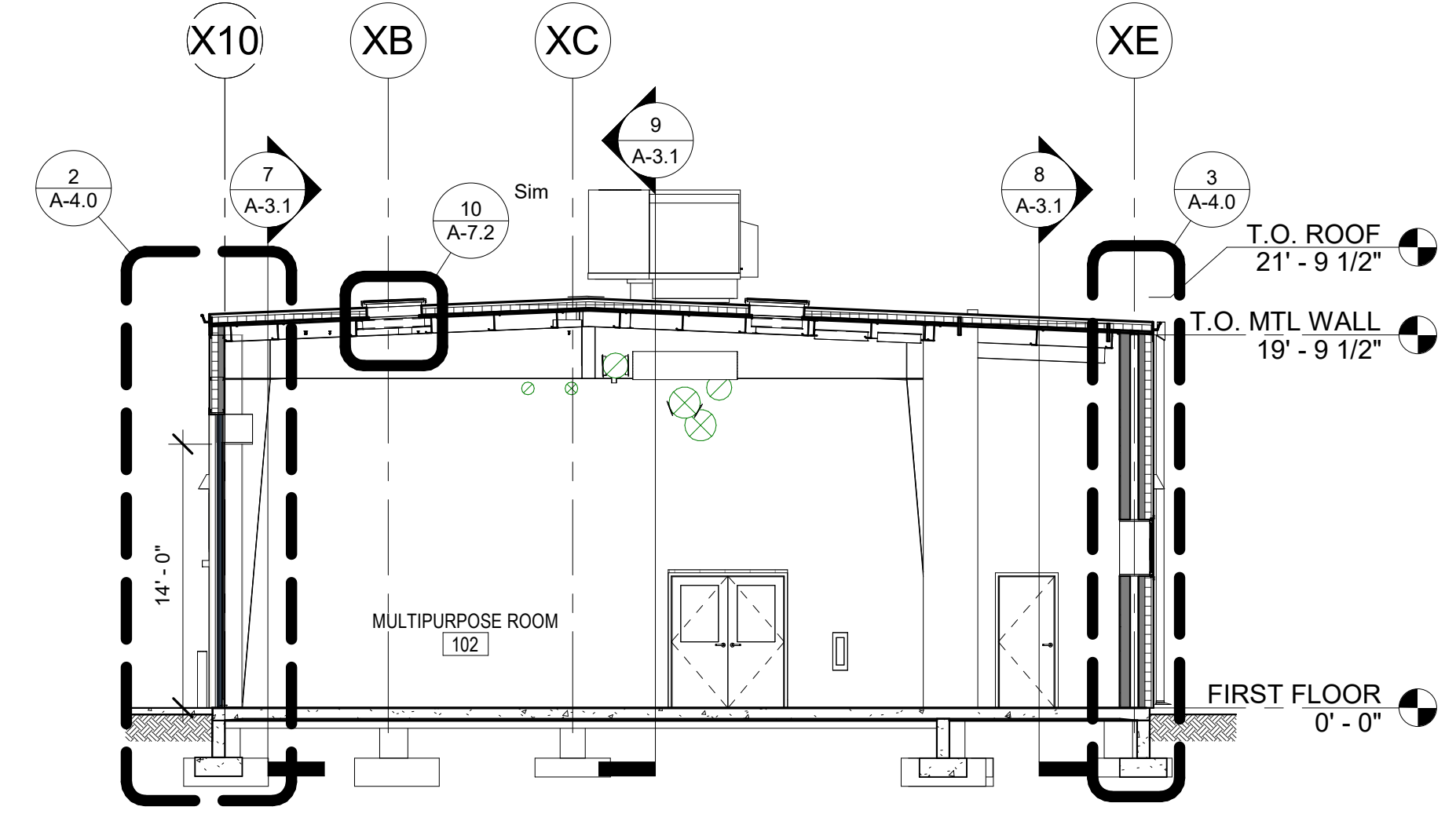
7 LONGITUDINAL SECTION 2
1/8" = 1'-0"



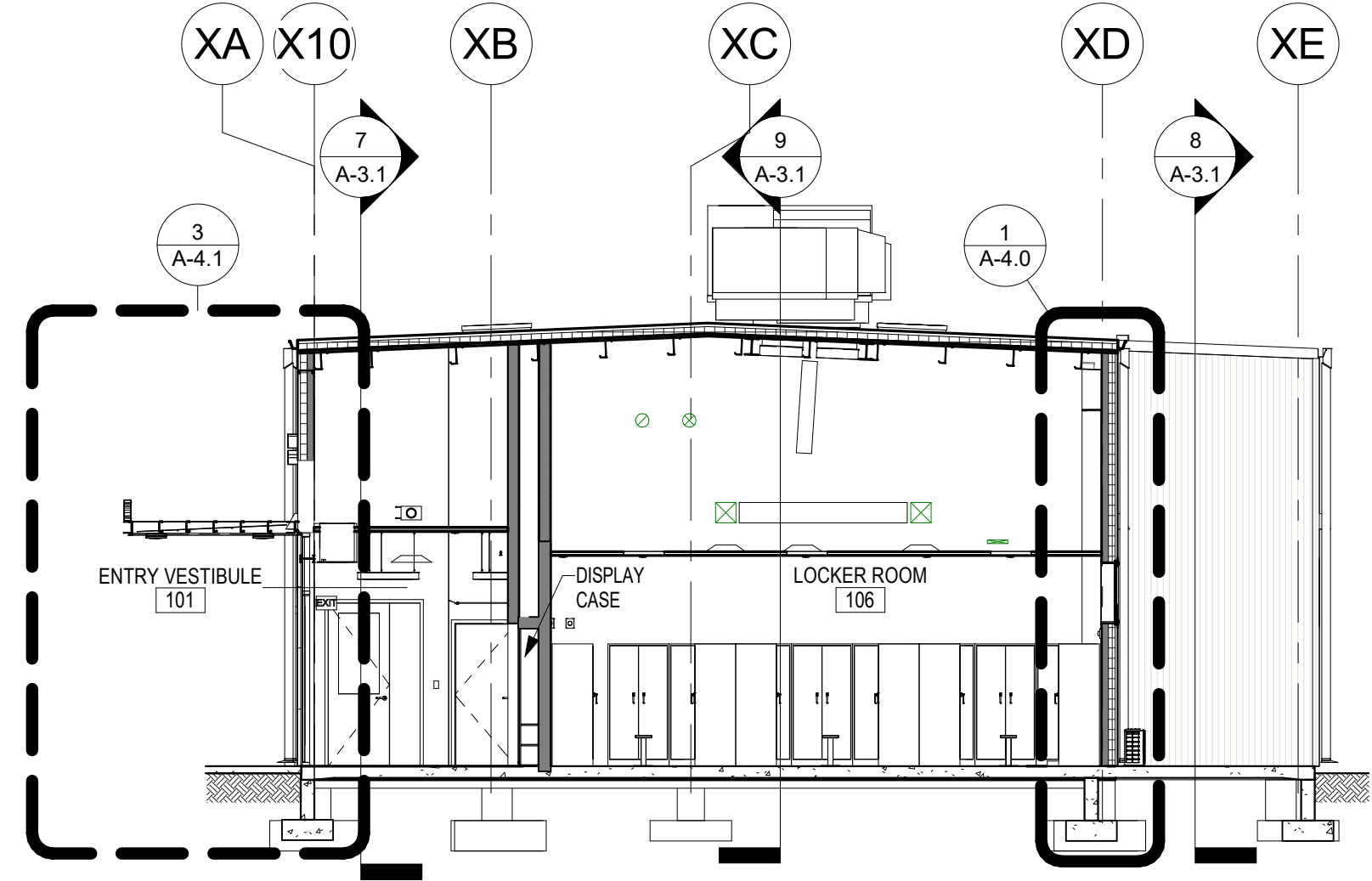
6 SECTION @ STORAGE
1/8" = 1'-0"



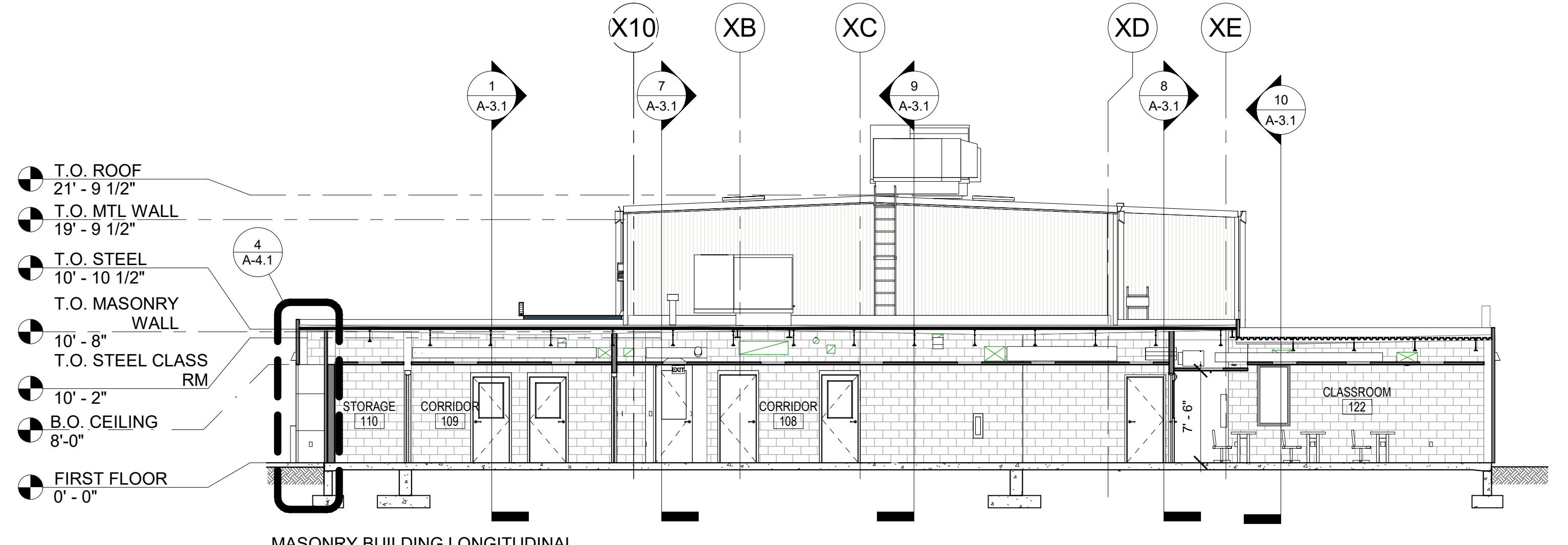
5 SECTION @ WEAPONS VAULT
1/8" = 1'-0"



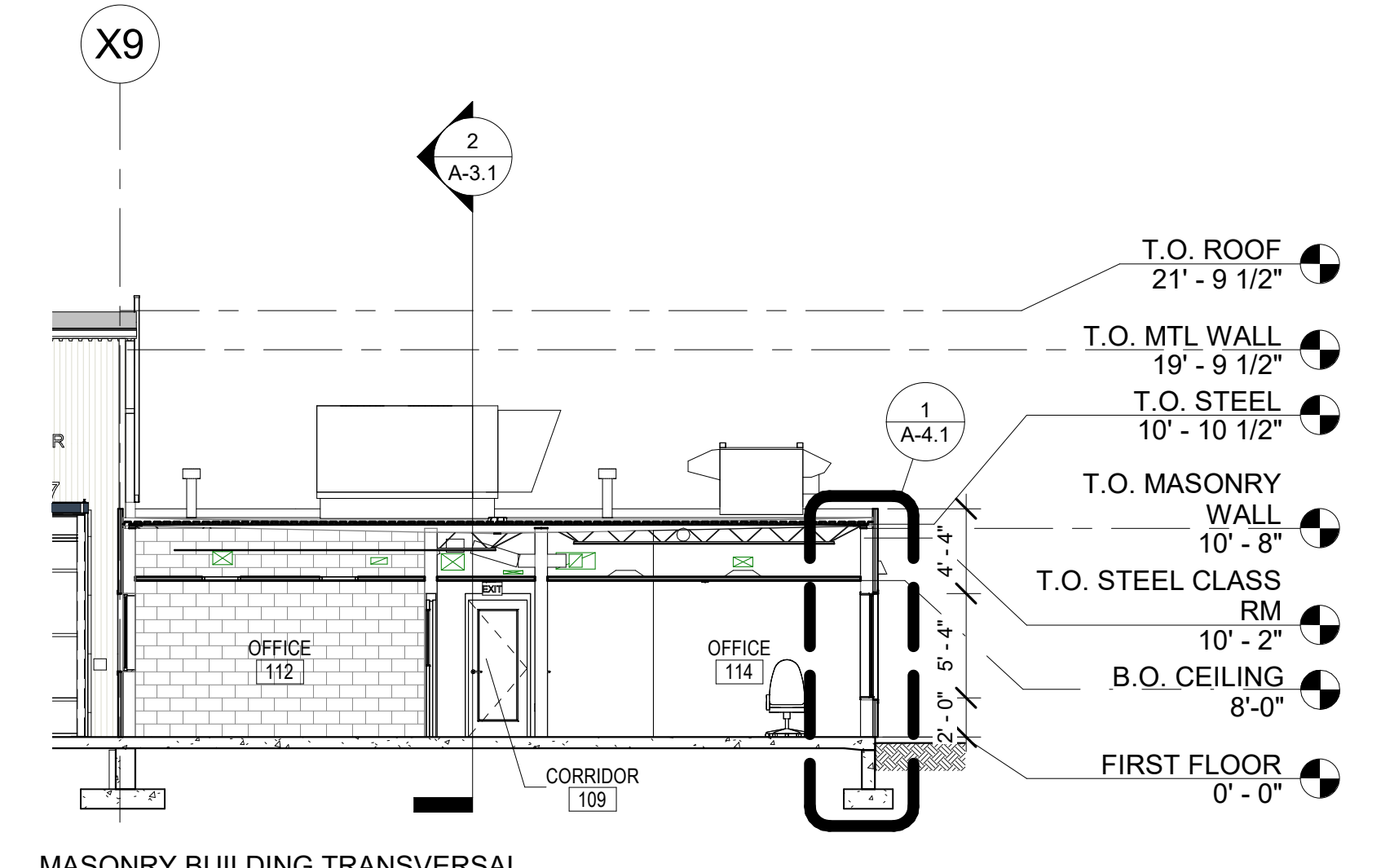
4 PREMANUFACTURED BUILDING
TRANSVERSAL SECTION
1/8" = 1'-0"



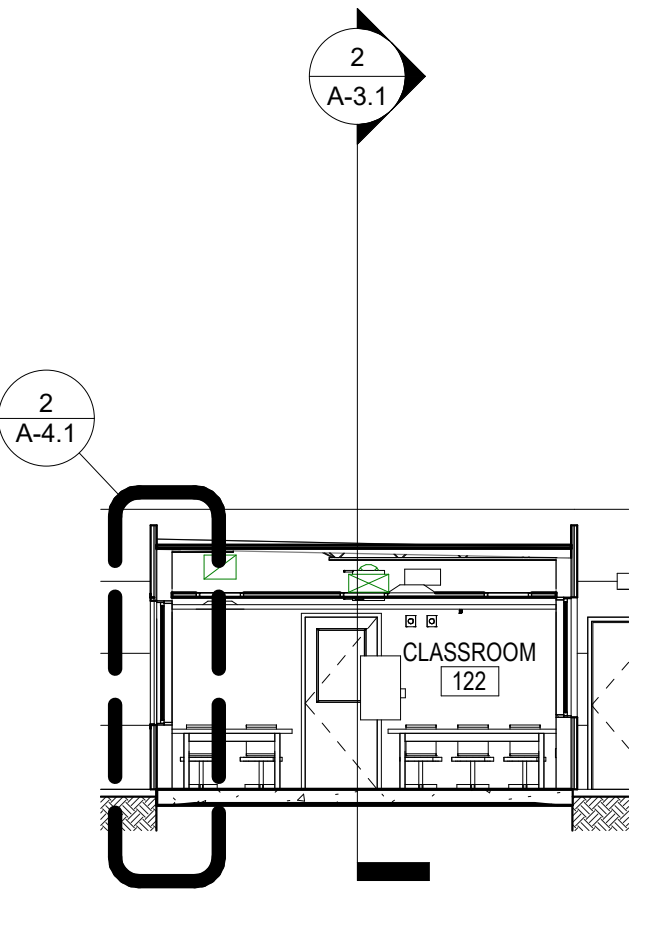
3 SECTION @ VESTIBULE & LOCKER
ROOM
1/8" = 1'-0"



2 MASONRY BUILDING LONGITUDINAL
SECTION
1/8" = 1'-0"



1 MASONRY BUILDING TRANSVERSAL
SECTION
1/8" = 1'-0"



10 SECTION @ CLASSROOM
1/8" = 1'-0"

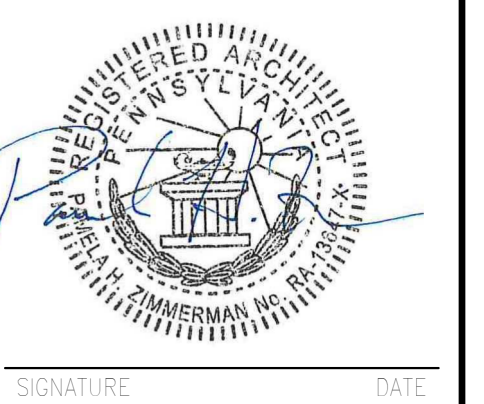
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CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO
ARCHITECTURE + PROJECT MANAGEMENT

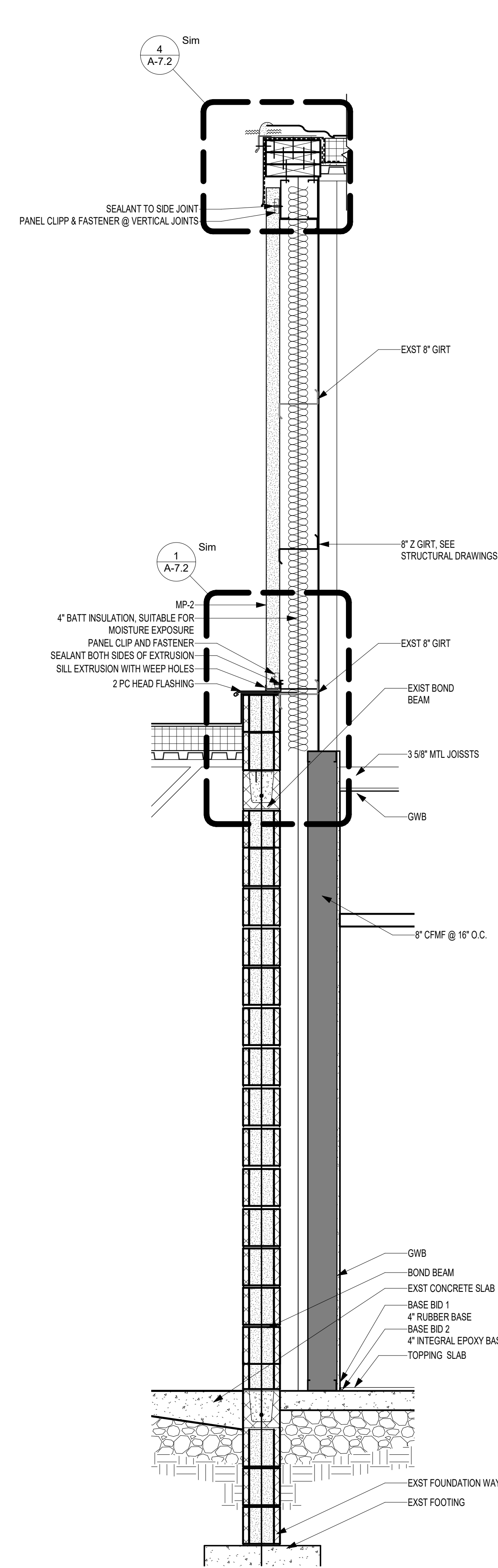
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

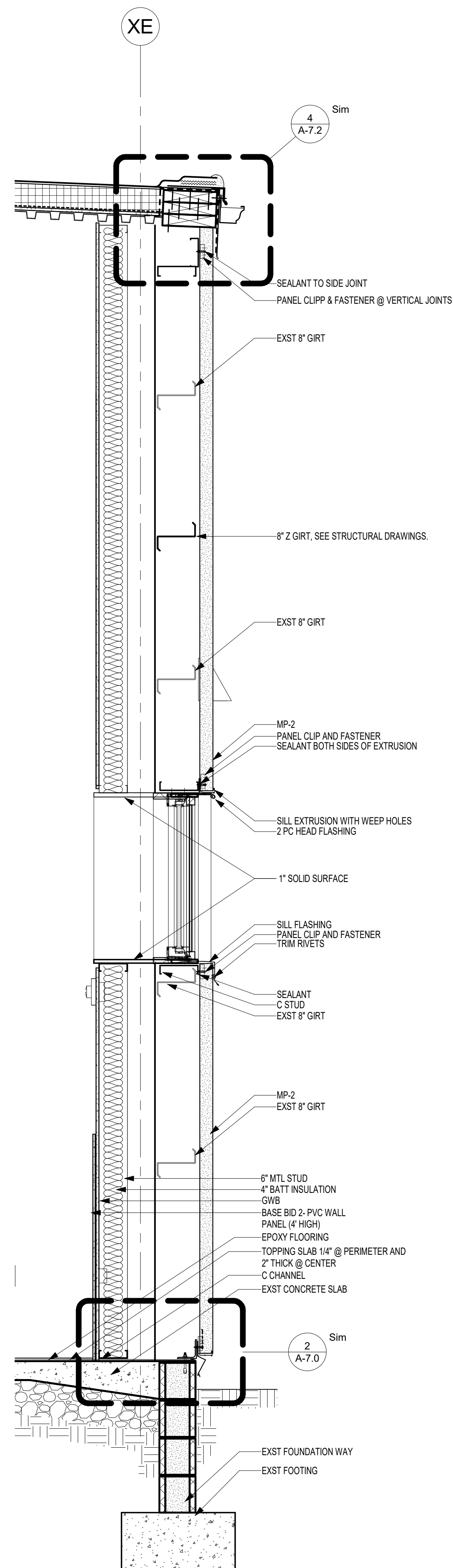
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

BUILDING SECTIONS

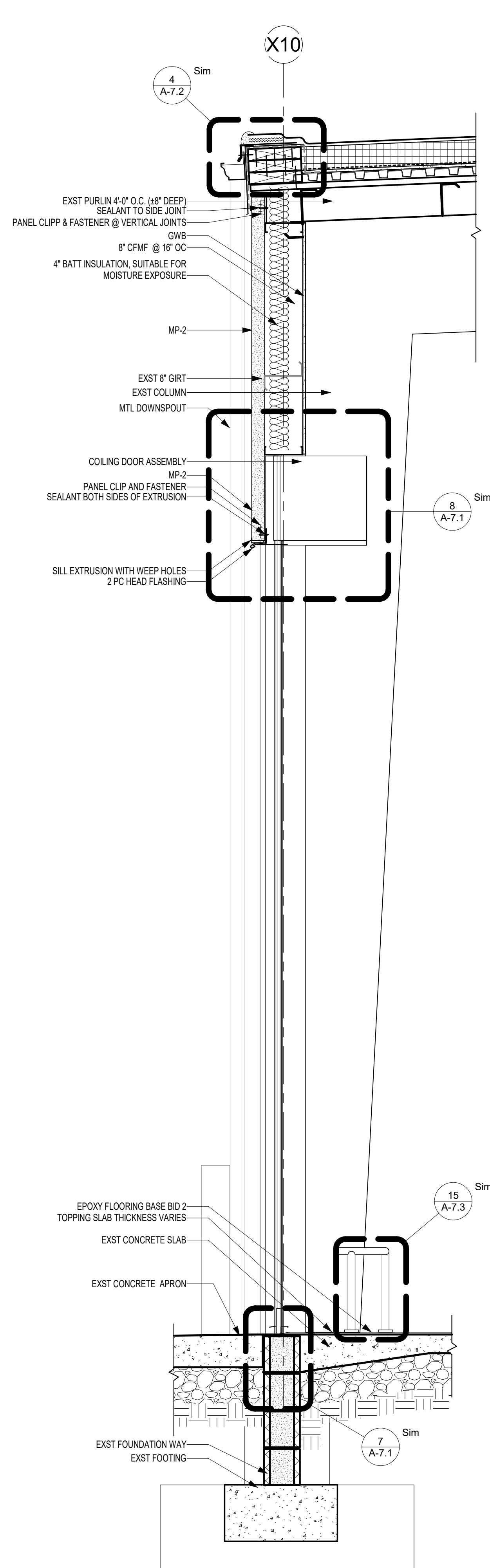
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CHECKED BY AK	SCALE 1/8" = 1'-0"	



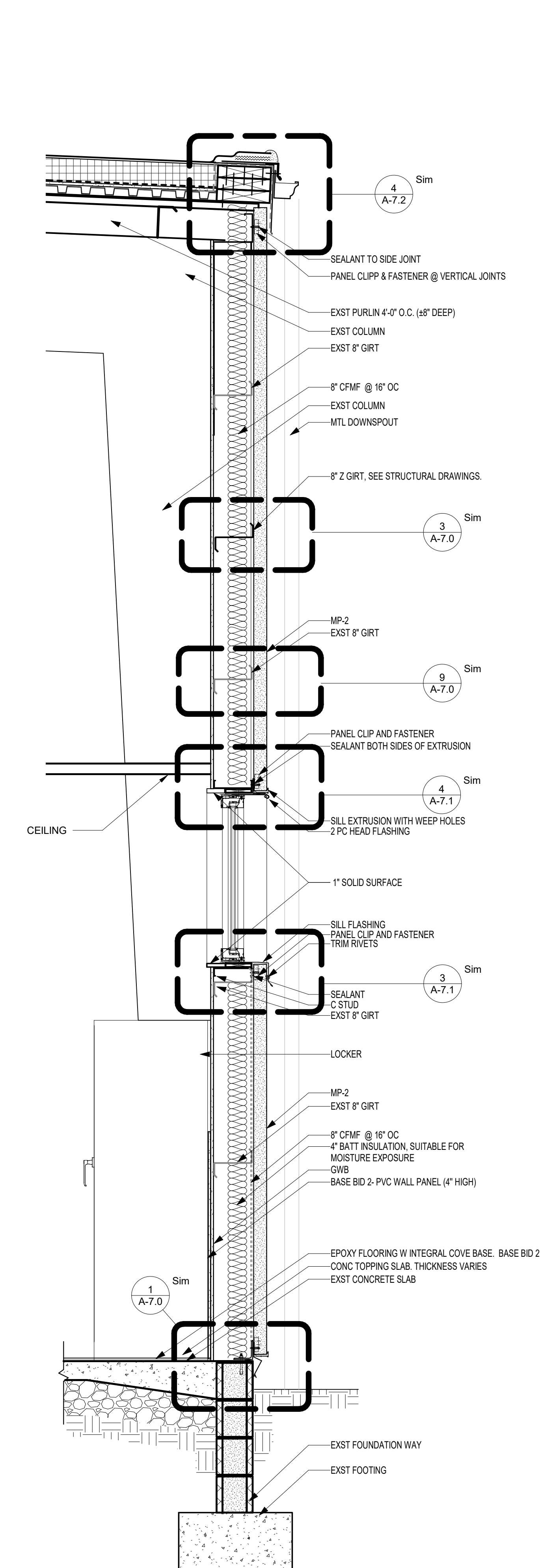
1 WALL SECTION @ MASONRY-PREMANUFACTURED CONNECTION
3/4" = 1'-0"



3 PREMANUFACTURED BUILDING TRANSVERSAL SECTION - Callout 1
3/4" = 1'-0"



2 WALL SECTION @ ROLL UP DOOR
3/4" = 1'-0"



1 WALL SECTION @ LOCKER ROOM
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

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ZIMMERMAN STUDIO LLC
 ARCHITECTURE + PROJECT MANAGEMENT

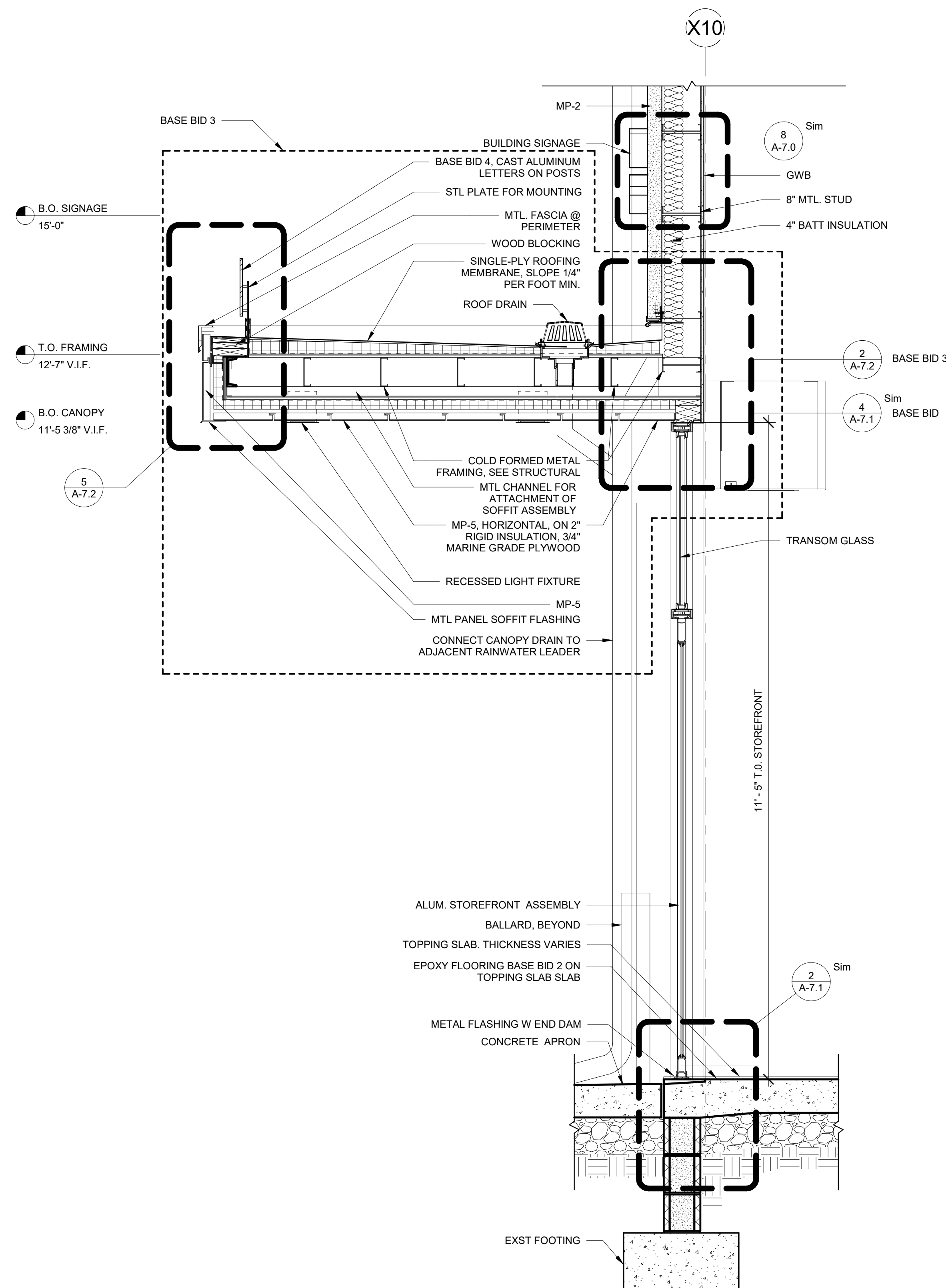
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

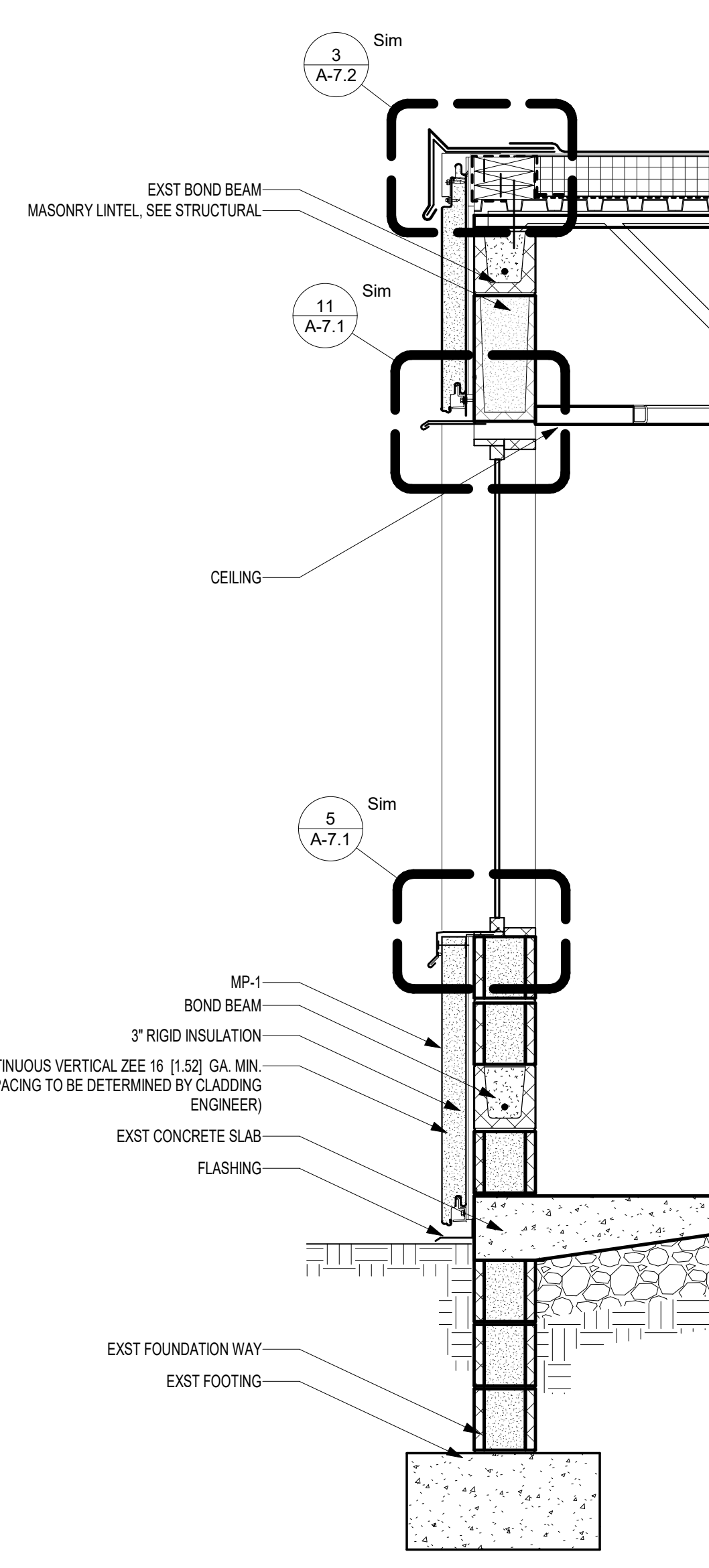
BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

WALL SECTIONS

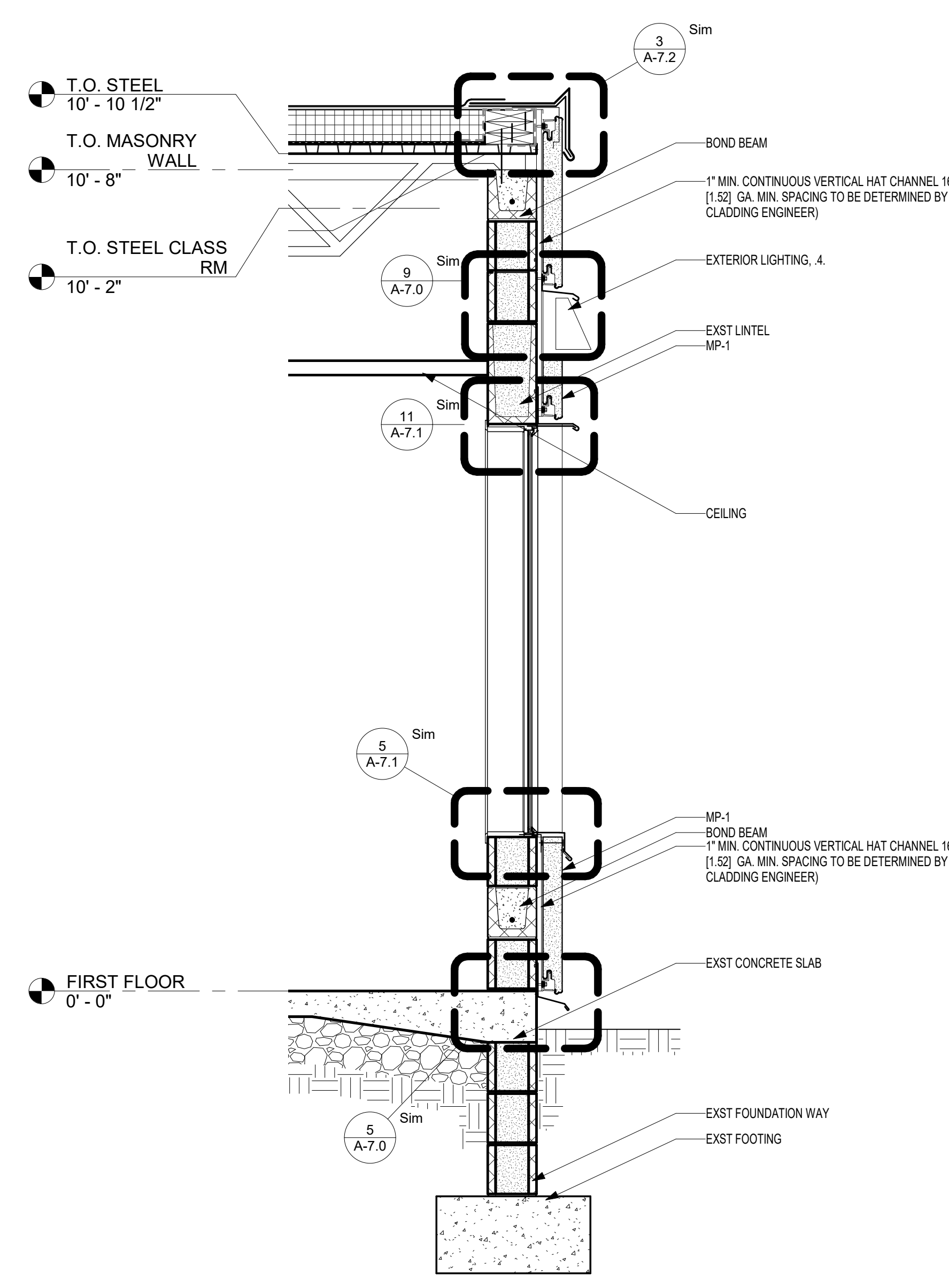
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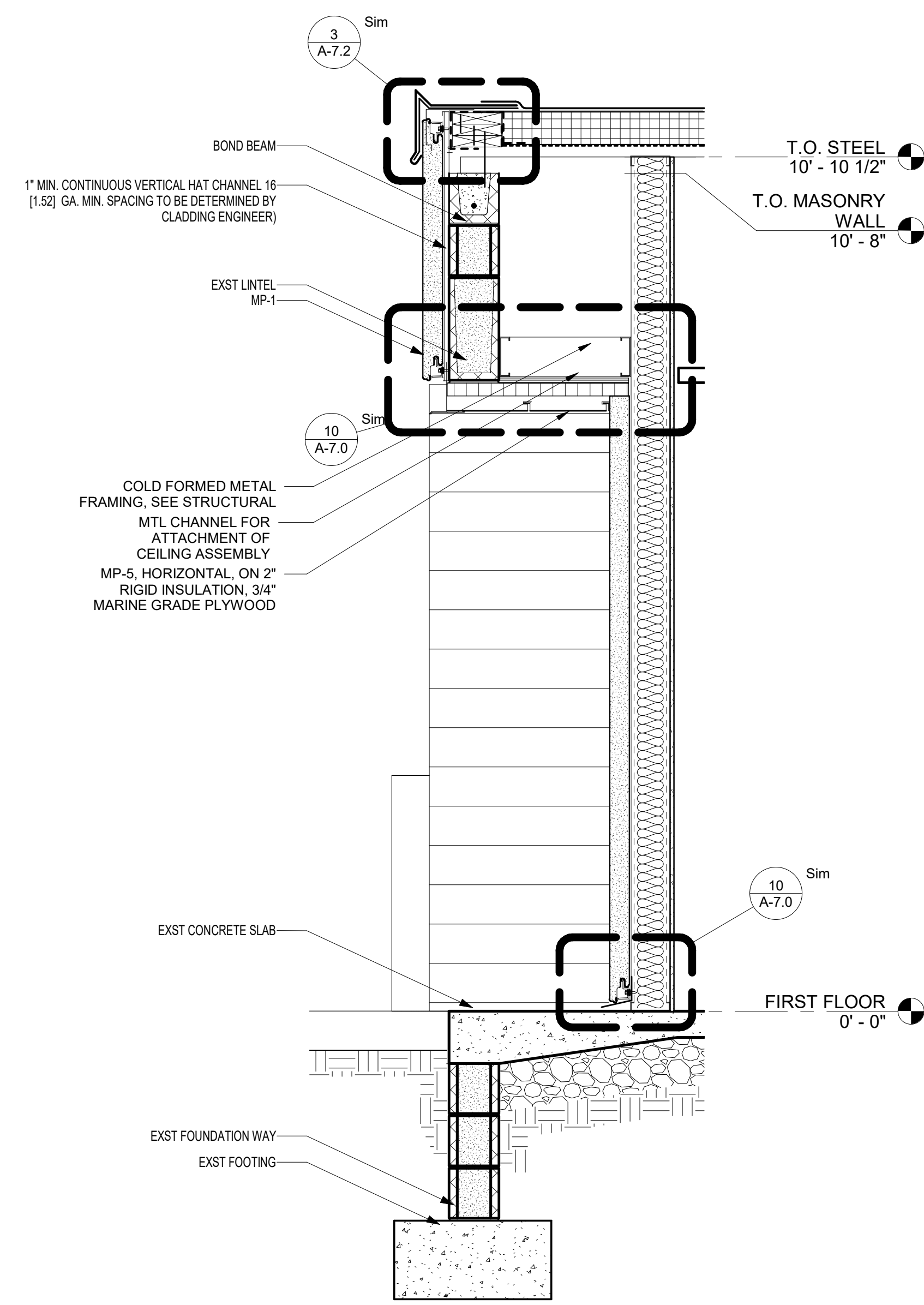
3 WALL SECTION @ CANOPY
3/4" = 1'-0"



2 WALL SECTION @ CLASSROOM
3/4" = 1'-0"



1 WALL SECTION @ MASONRY BLDG.
3/4" = 1'-0"



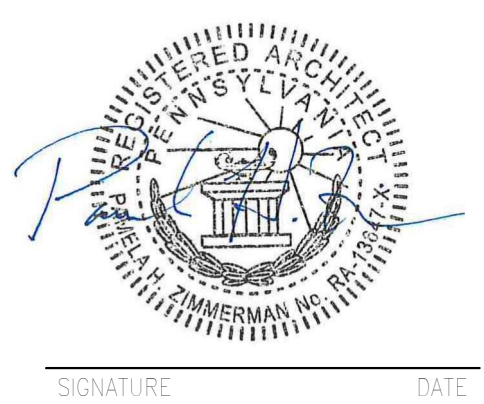
4 WALL SECTION @ MASONRY BLDG.
STORAGE
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
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ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

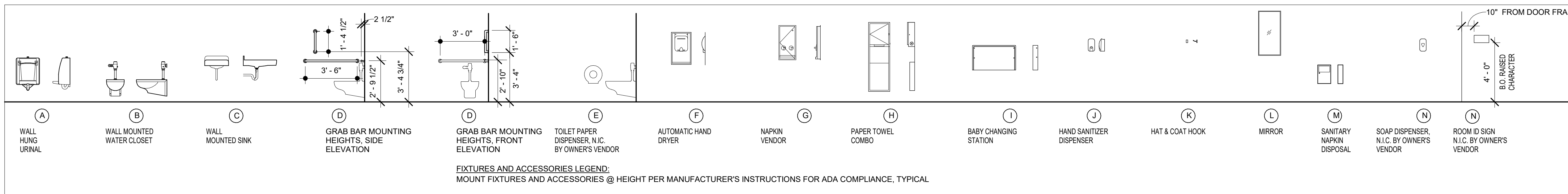
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

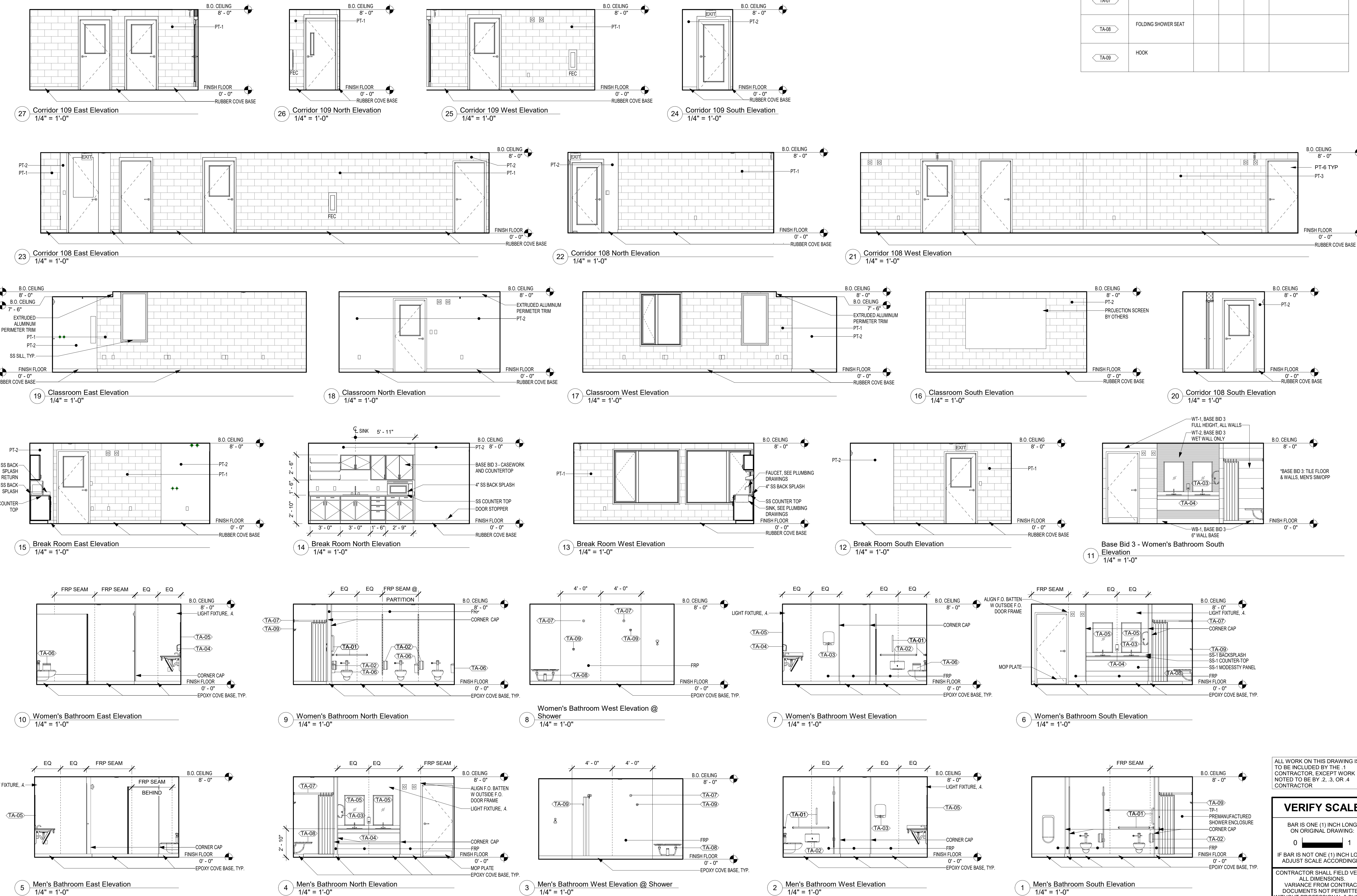
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

WALL SECTIONS

DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-4.1
CHECKED BY AK	SCALE 3/4" = 1'-0"	

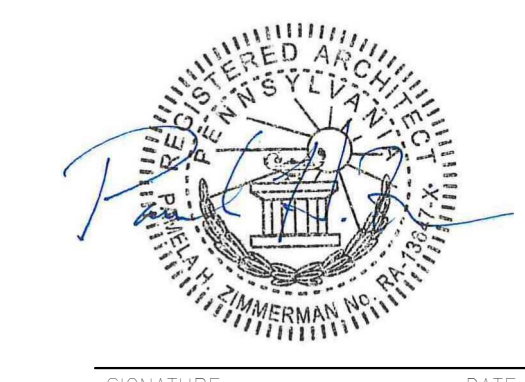


TAG	ITEM	SIZE			LOCATION
		W	H	D	
TA-01	GRAB BAR HORIZONTAL	2'11 1/2"	1' 1/2"	36', 42"	HANDICAP STALLS REF. MOUNTING HEIGHT SCHEDULE
TA-02	TOILET PAPER DISPENSER				
TA-03	PAPER TOWEL DISPENSER				
TA-04	LIQUID SOAP DISPENSER				
TA-05	MIRROR UNIT	18"	30"		
TA-06	SANITARY NAPKIN DISPOSAL				
TA-07	SHOWER ROD				
TA-08	FOLDING SHOWER SEAT				
TA-09	HOCK				



BID SET	DESIGN DEVELOPMENT
08/26/2024	01/28/2024
CONSTRUCTION DOCUMENTS	REVISION
07/31/2024	
CONSTRUCTION DOCUMENTS	
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02/27/2024	

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ZIMMERMAN STUDIO INC.
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

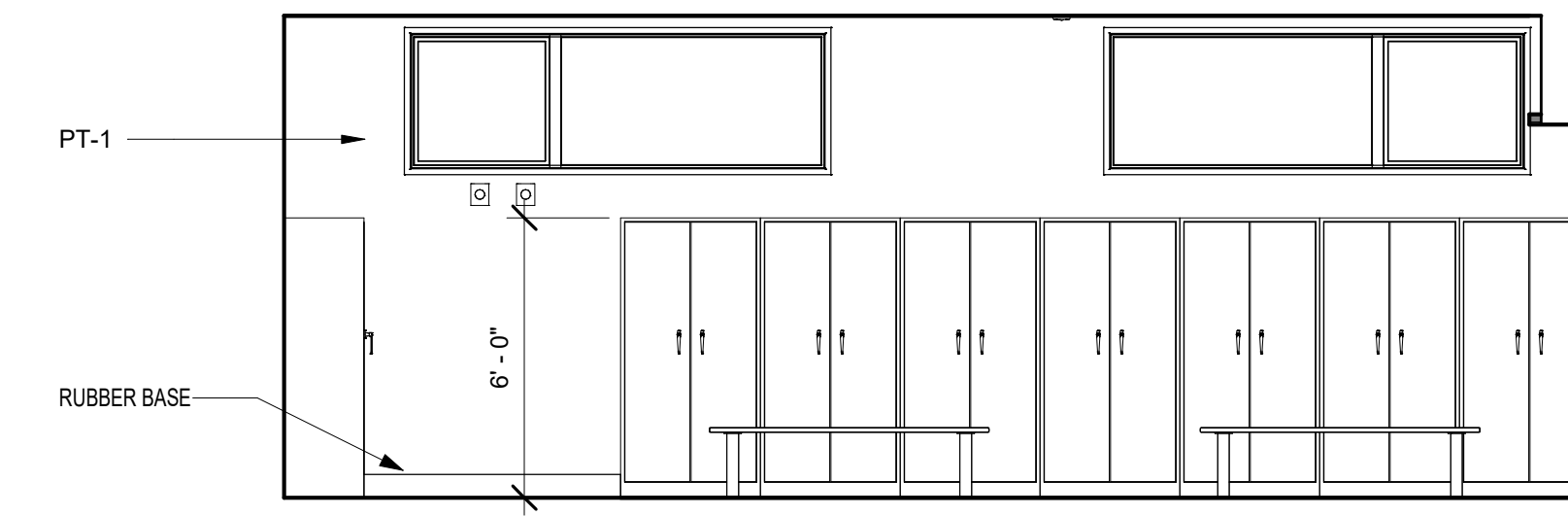
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

INTERIOR ELEVATIONS MASONRY BUILDING

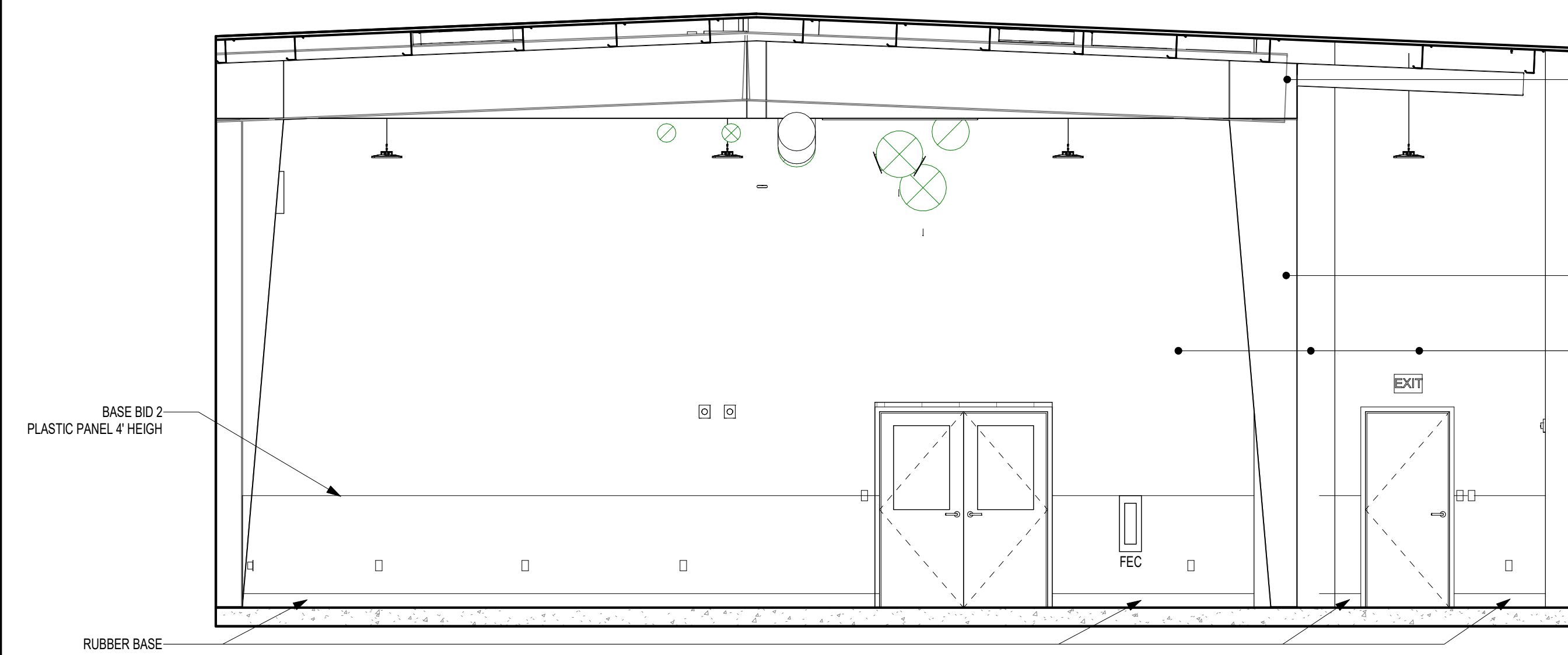
DRAWN BY: IB DATE: 08/26/2024 DRAWING No.: A-5.0
CHECKED BY: AK SCALE: 1/4" = 1'-0"

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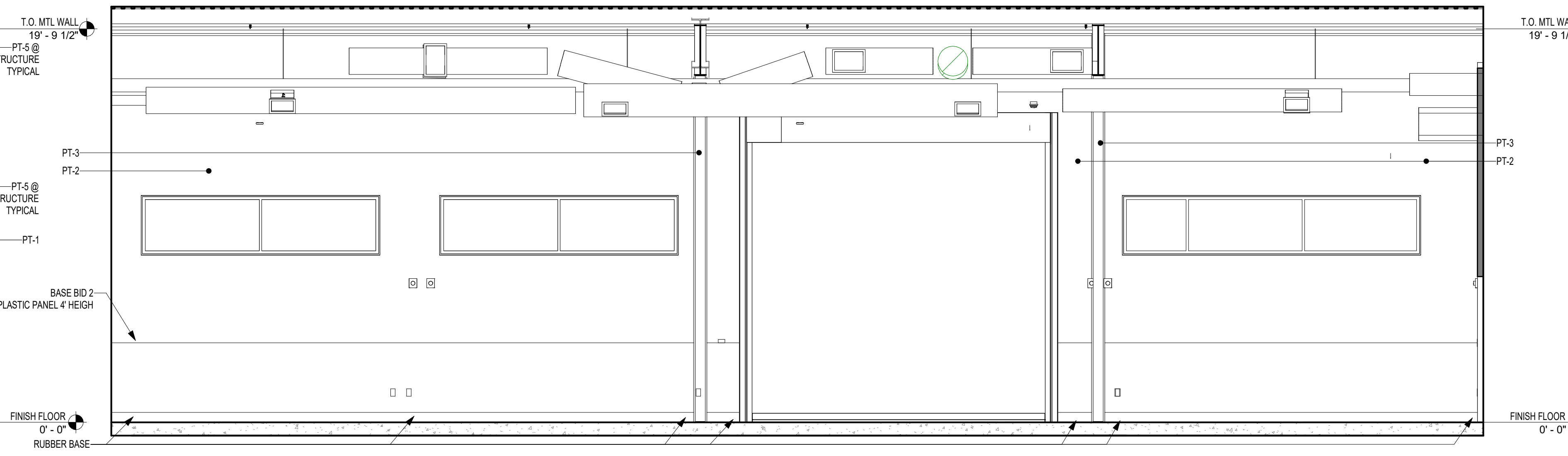
VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.



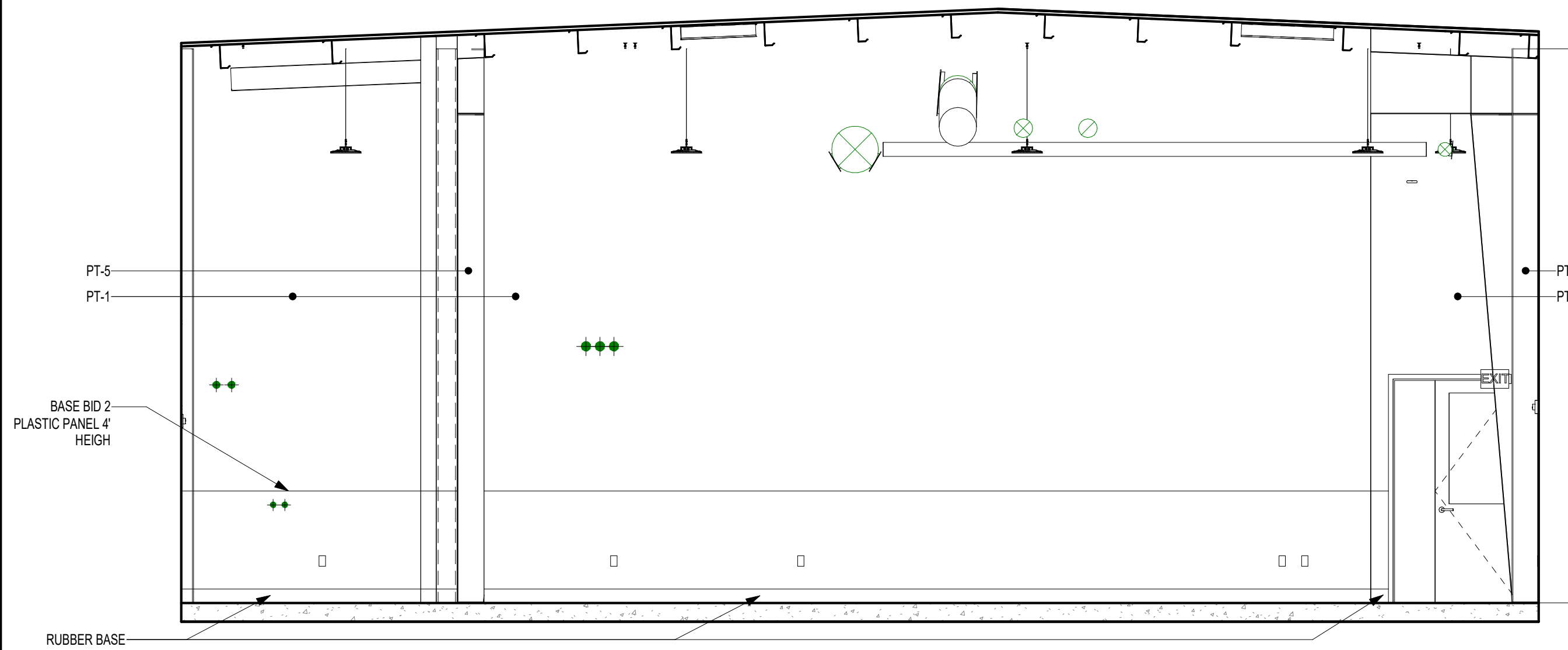
9 Locker Room South Elevation
1/4" = 1'-0"



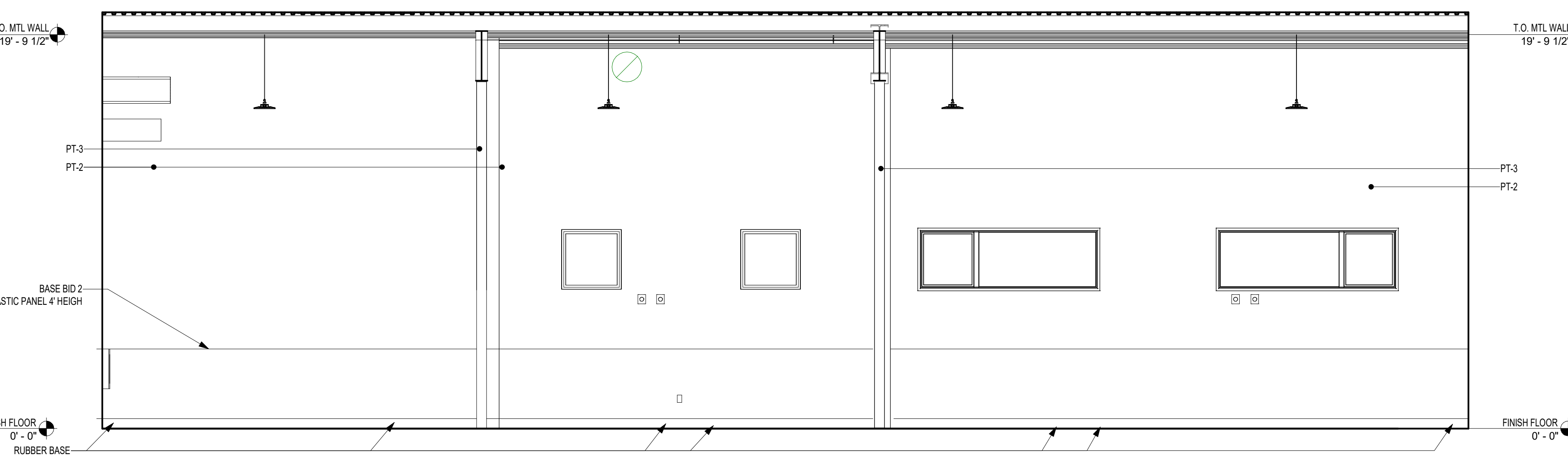
8 Multipurpose Room East Elevation
1/4" = 1'-0"



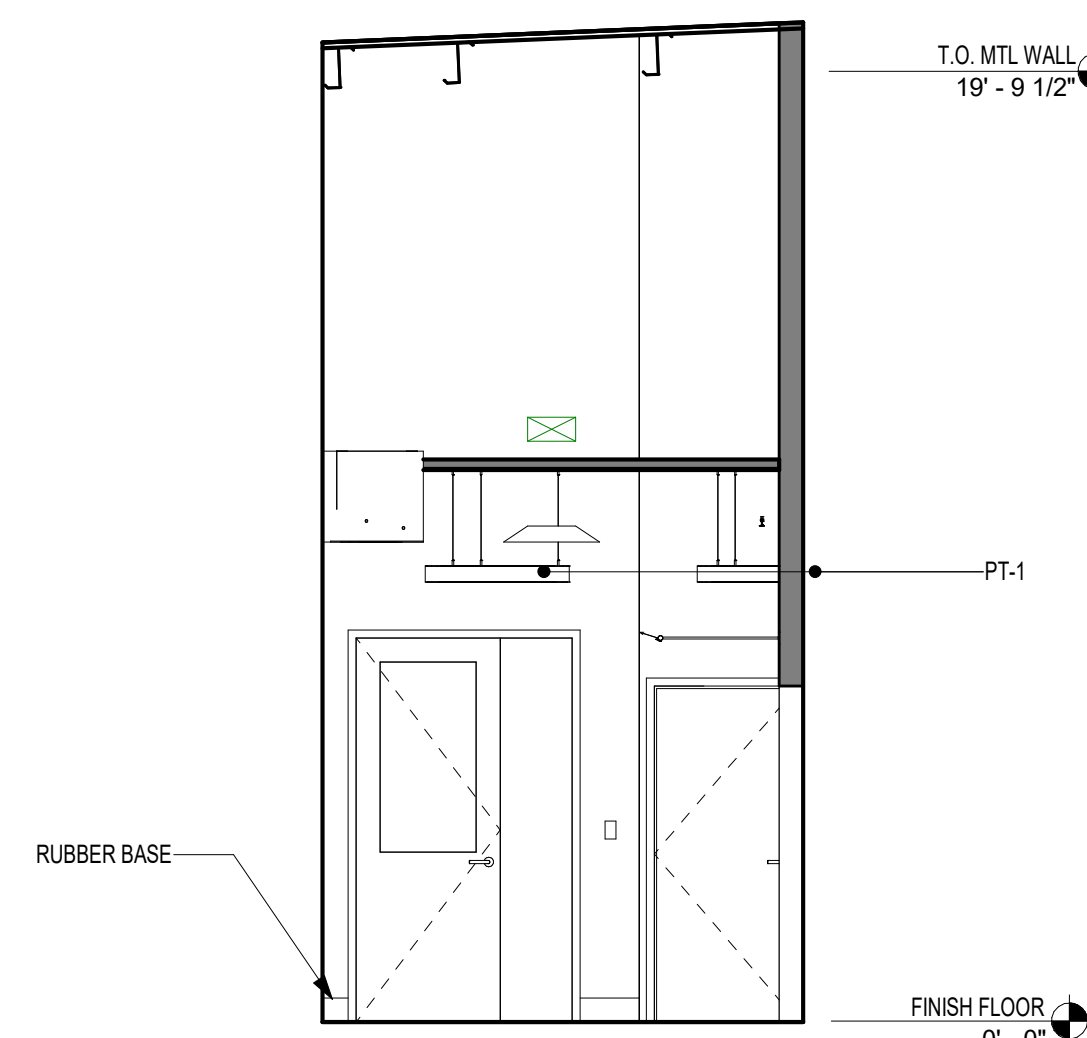
7 Multipurpose Room North Elevation
1/4" = 1'-0"



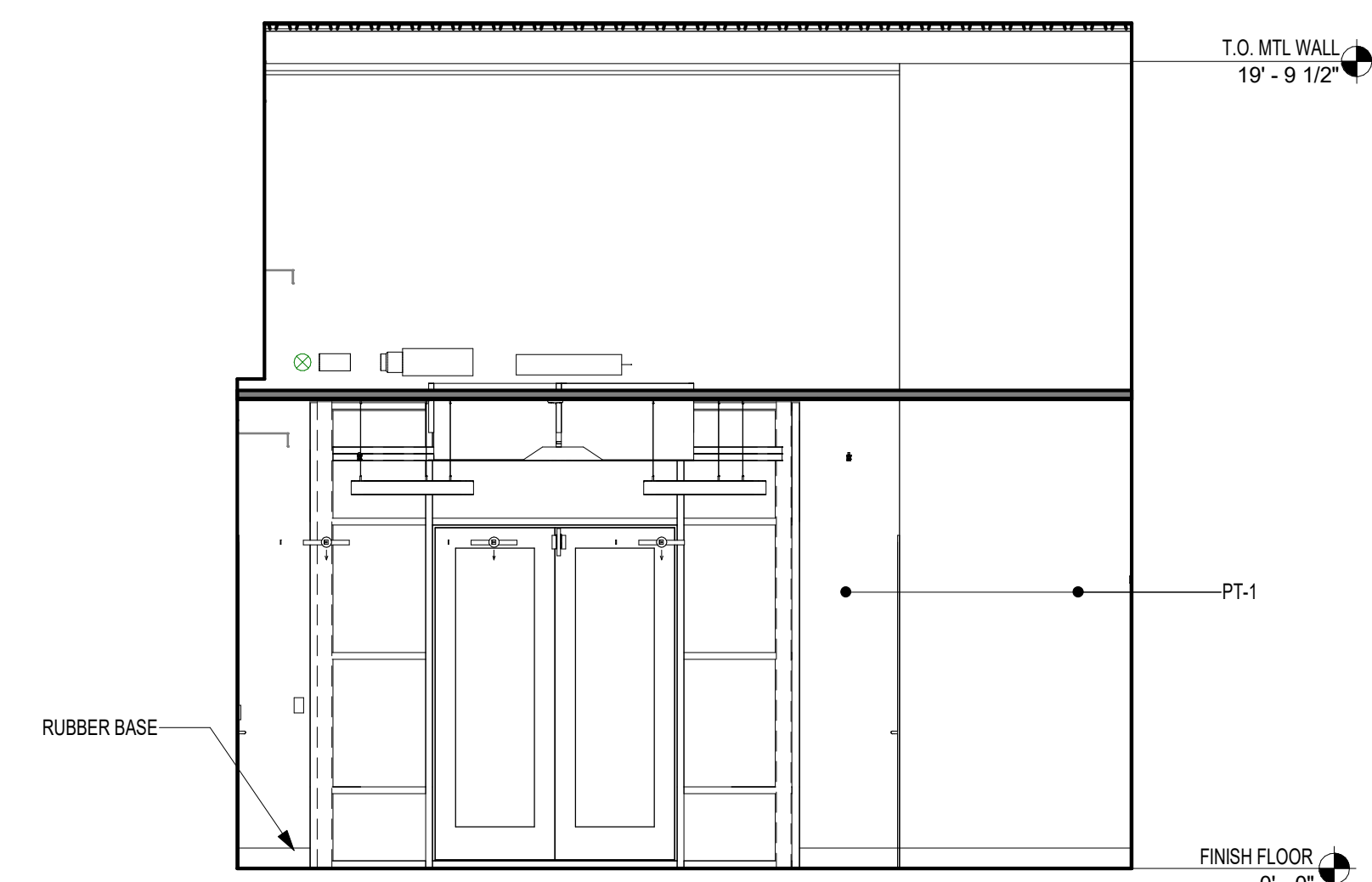
6 Multipurpose Room West Elevation
1/4" = 1'-0"



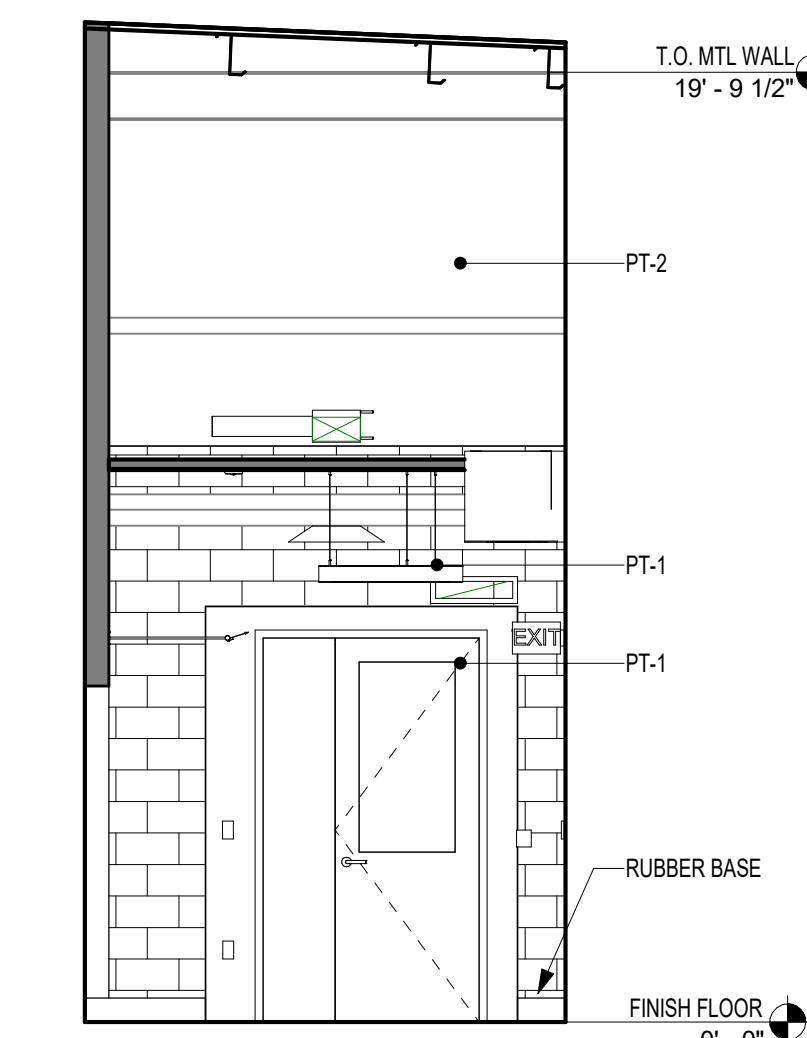
5 Multipurpose Room South Elevation
1/4" = 1'-0"



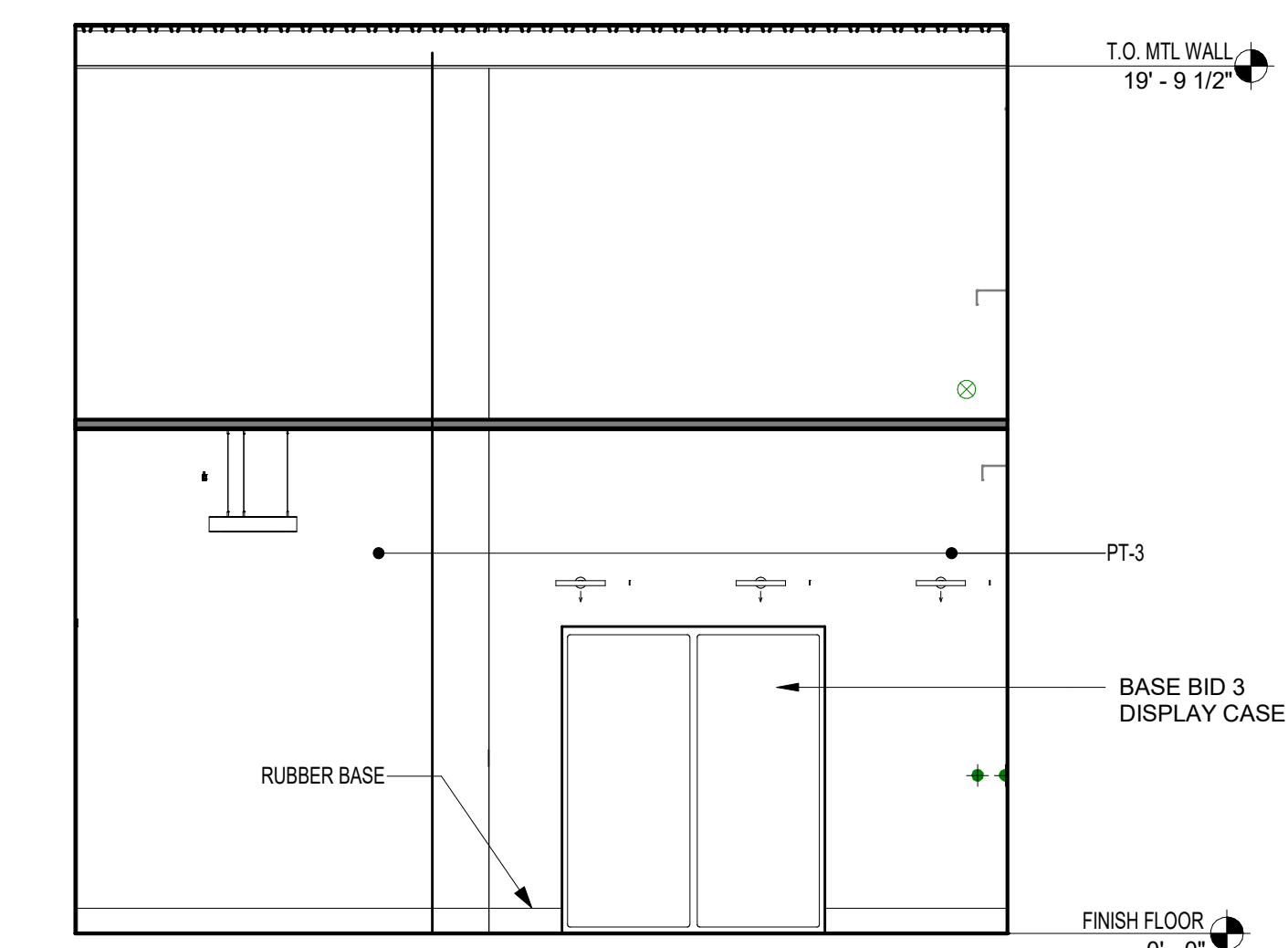
4 Entry Vestibule East Elevation
1/4" = 1'-0"



3 Entry Vestibule North Elevation
1/4" = 1'-0"



2 Entry Vestibule West Elevation
1/4" = 1'-0"



1 Entry Vestibule South Elevation
1/4" = 1'-0"

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VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

0 1

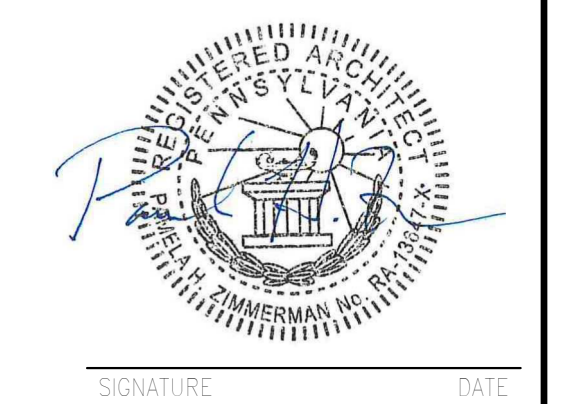
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

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BID SET 08/26/2024	DESIGN DEVELOPMENT 01/24/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD- REVISIONS

Construction Document- August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

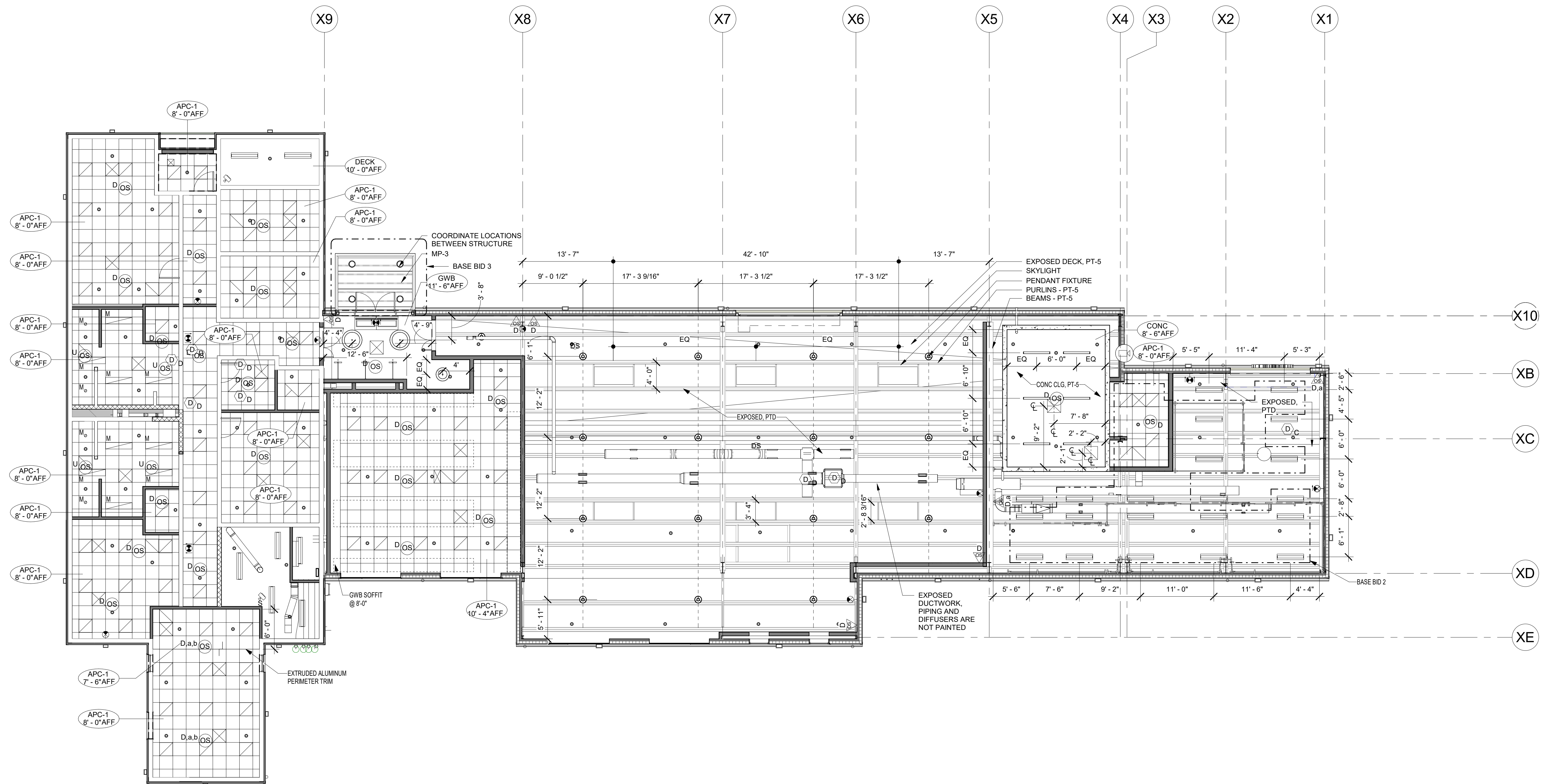
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

INTERIOR ELEVATIONS
PREMANUFACTURED BUILDING

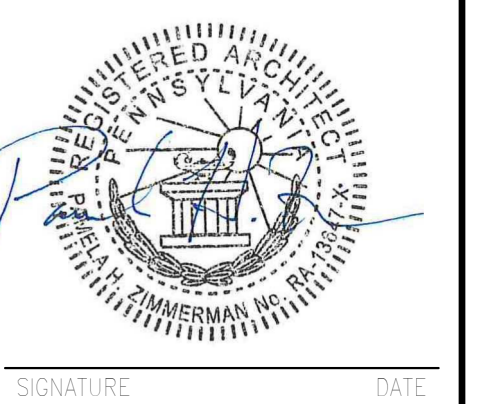
DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-5.1
CHECKED BY AK	SCALE 1/4" = 1'-0"	



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS REVISED 07/31/2024	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

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Construction Document - August 26, 2024	



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES

D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

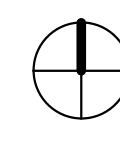
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
REFLECTED CEILING PLANS

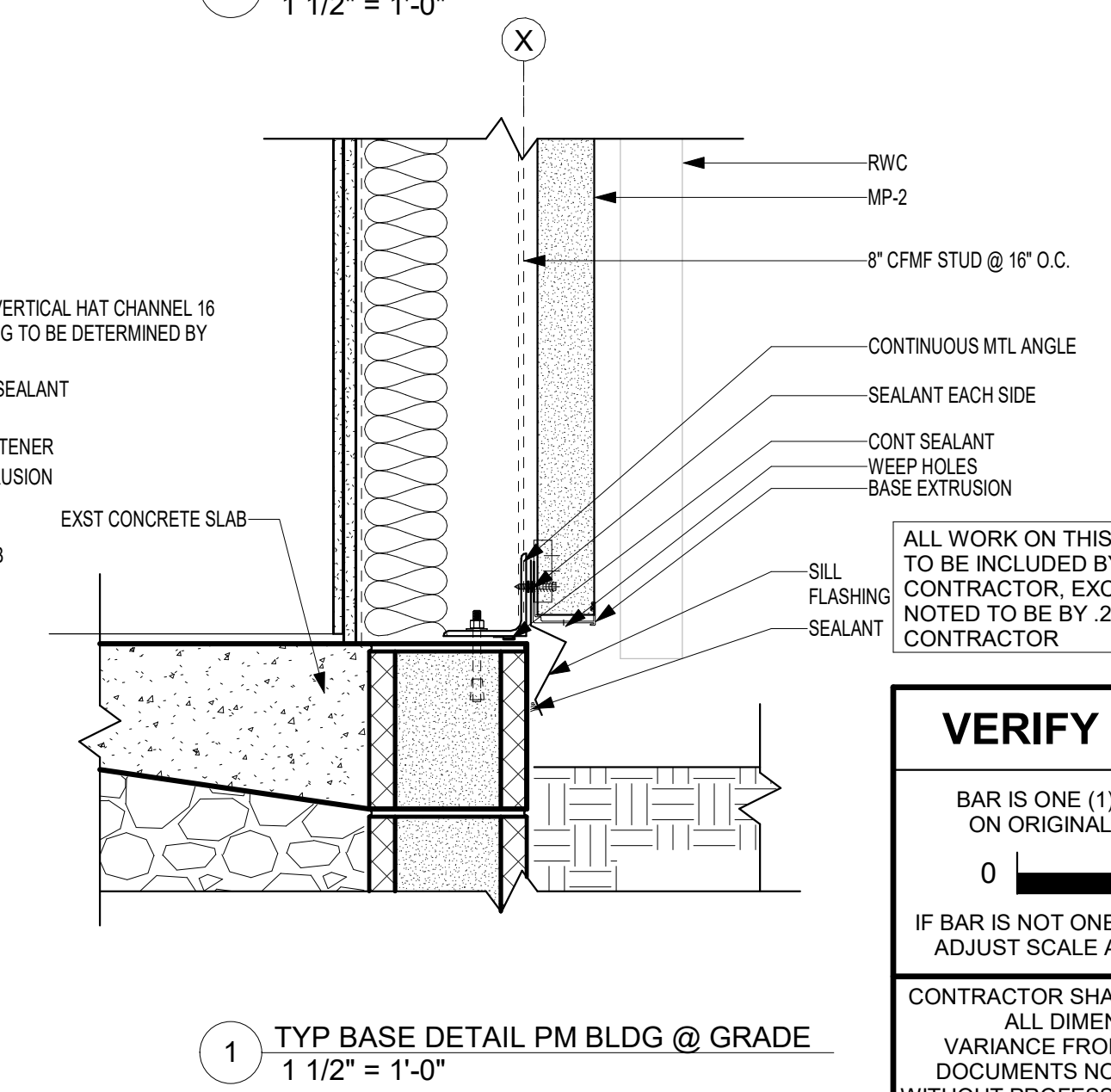
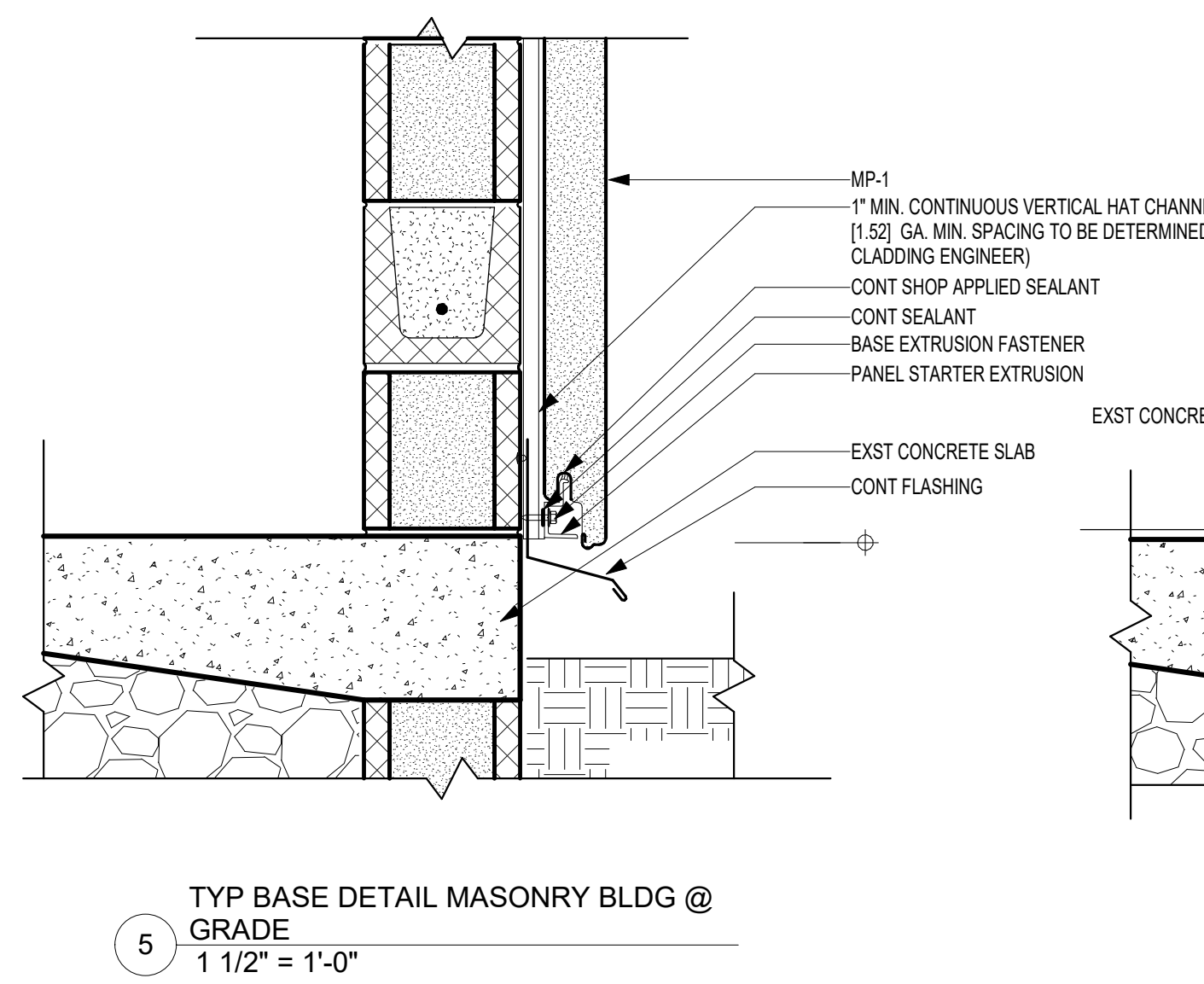
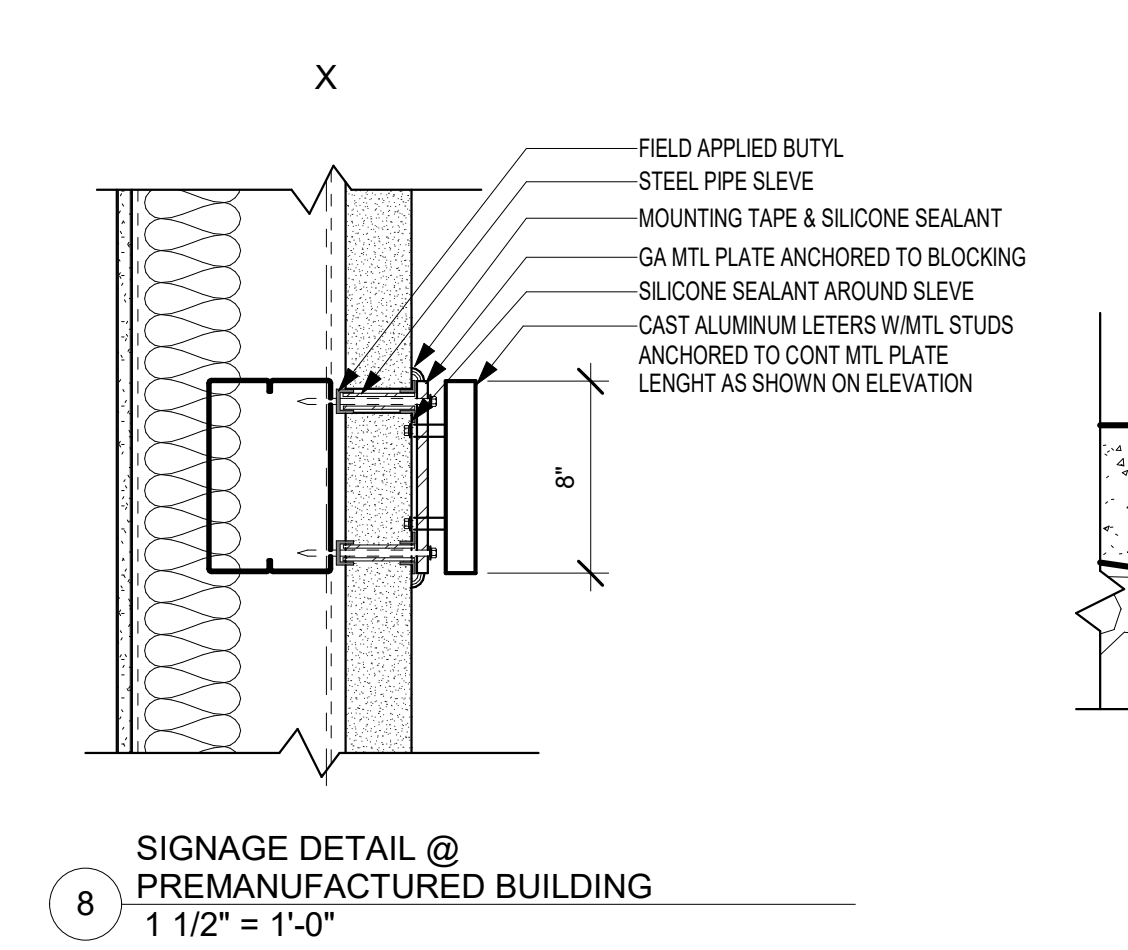
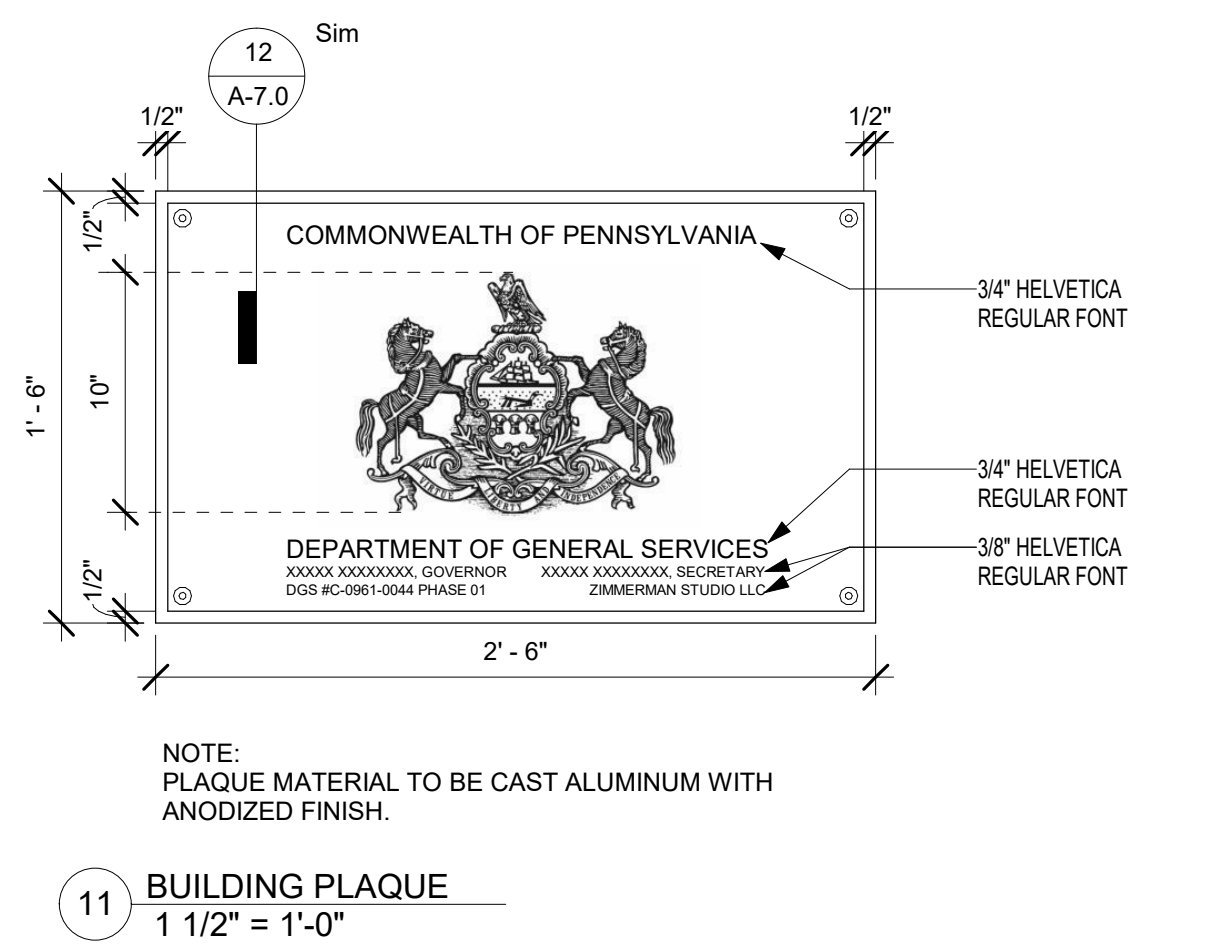
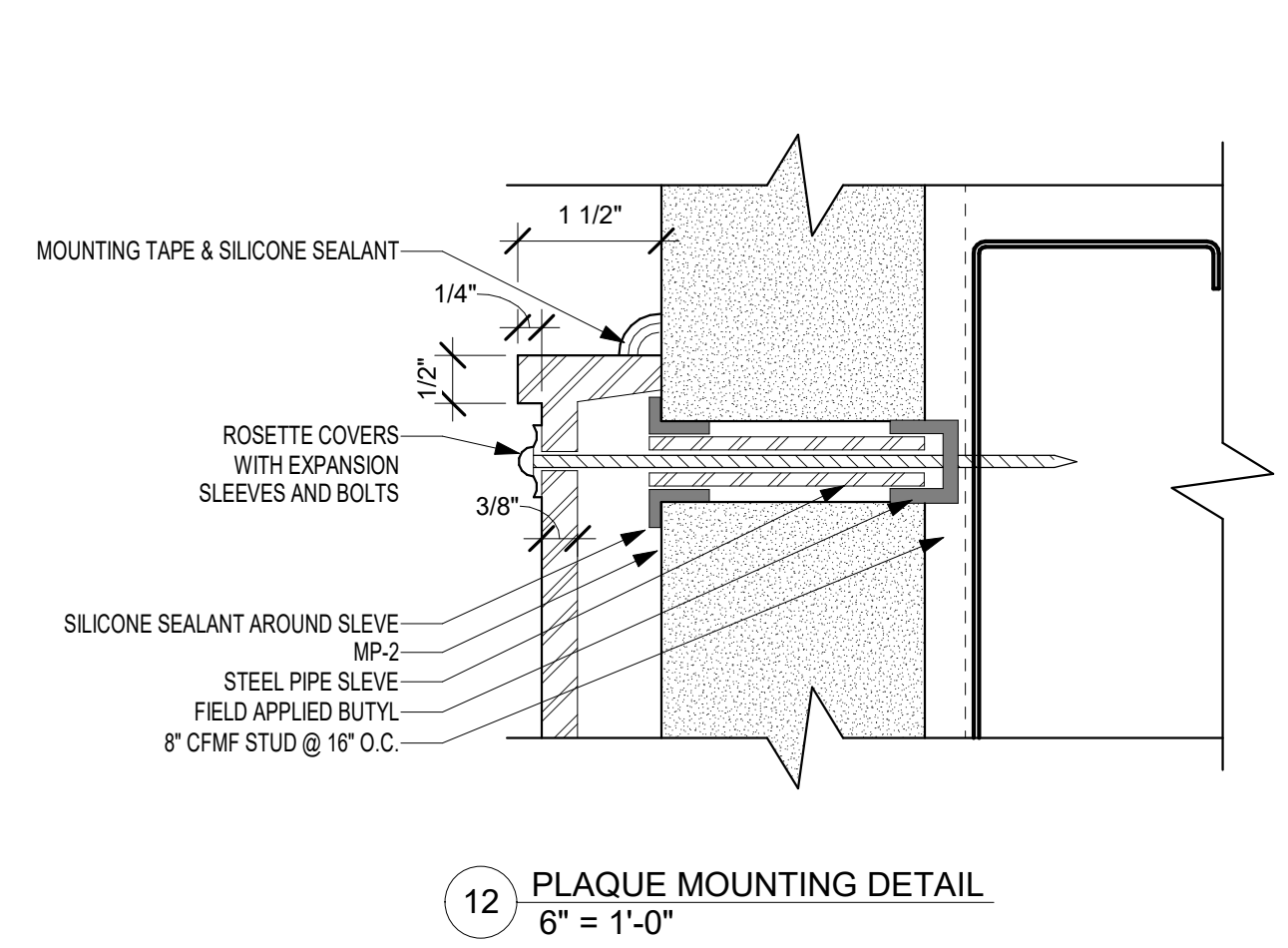
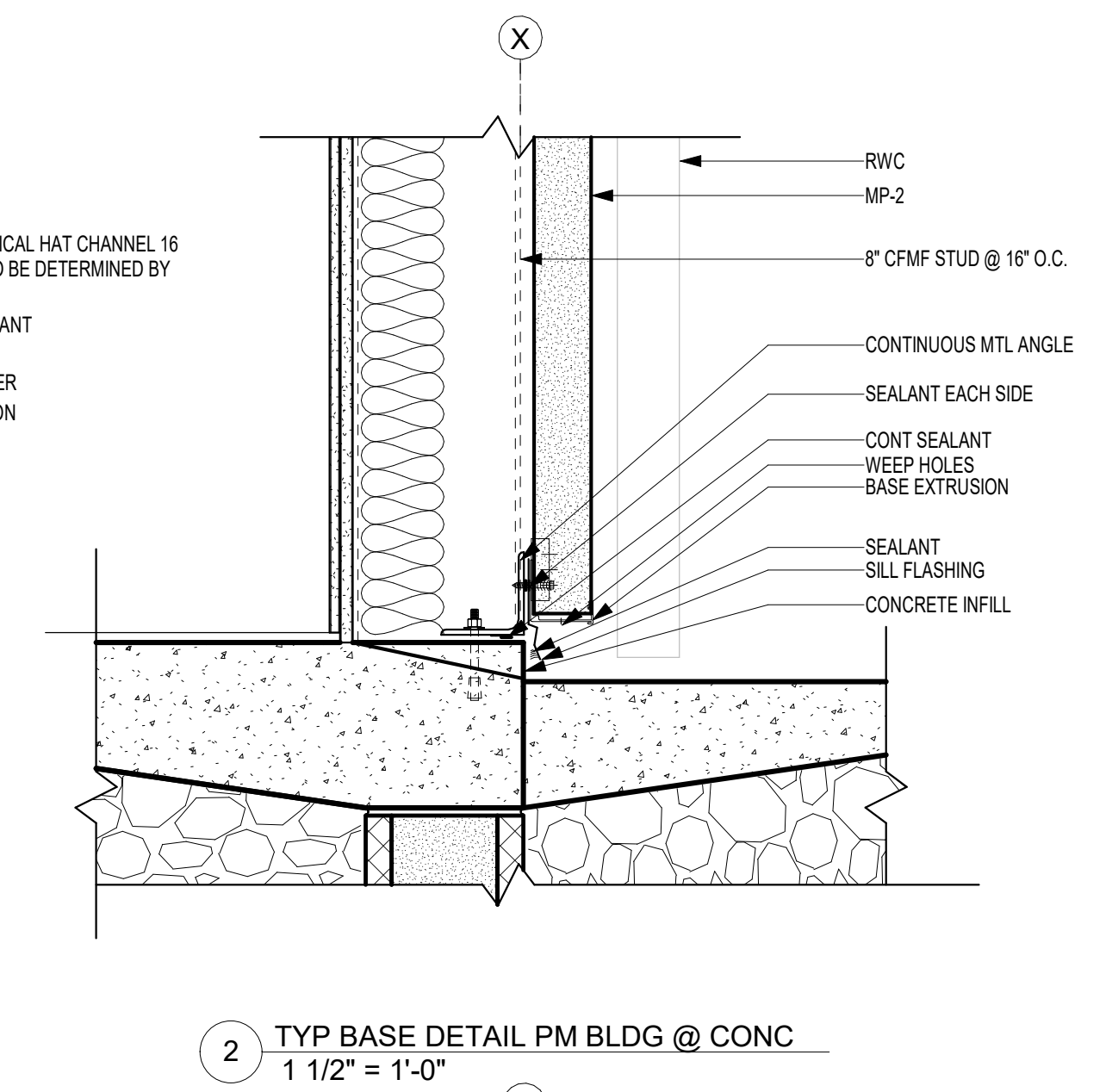
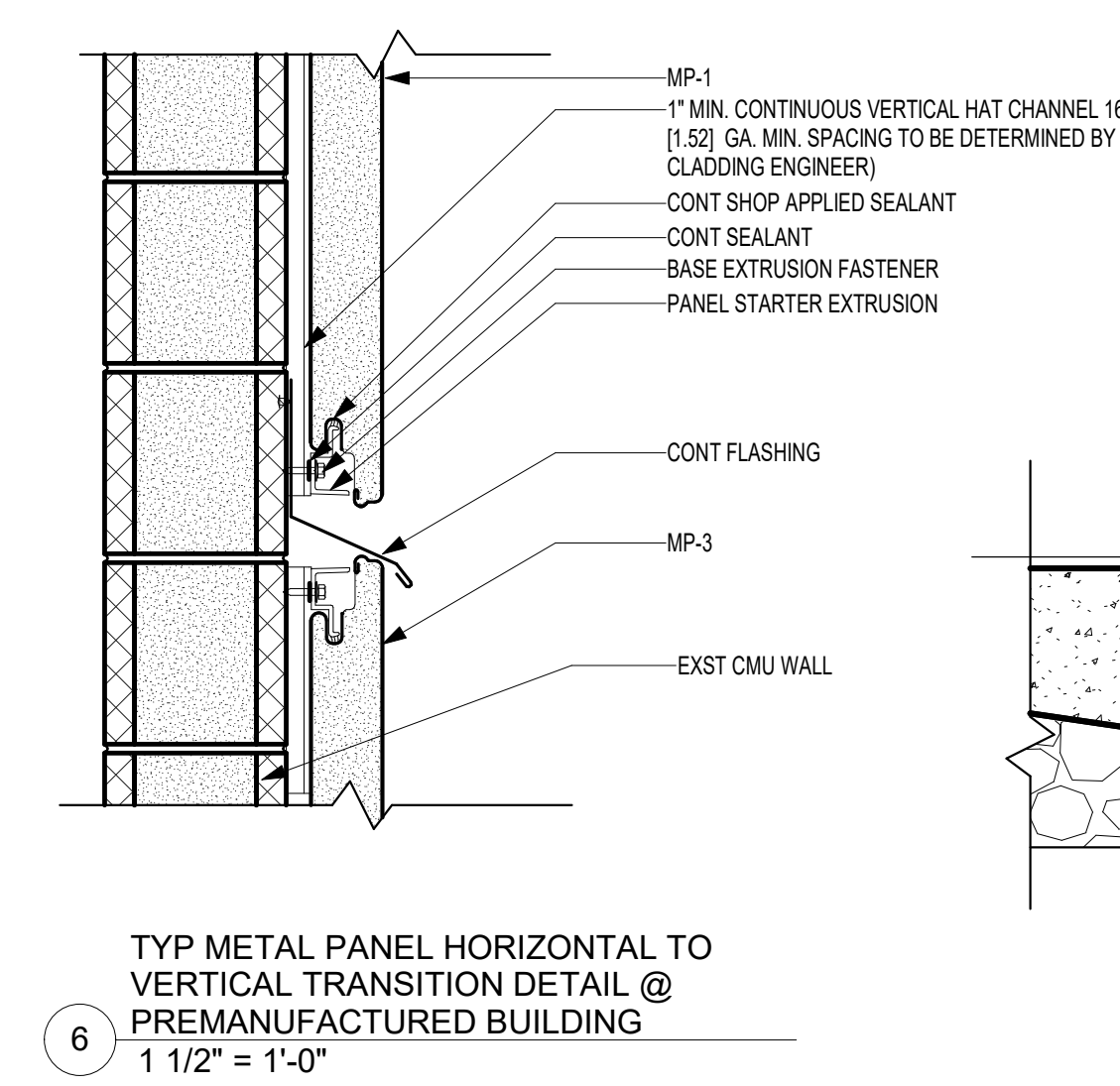
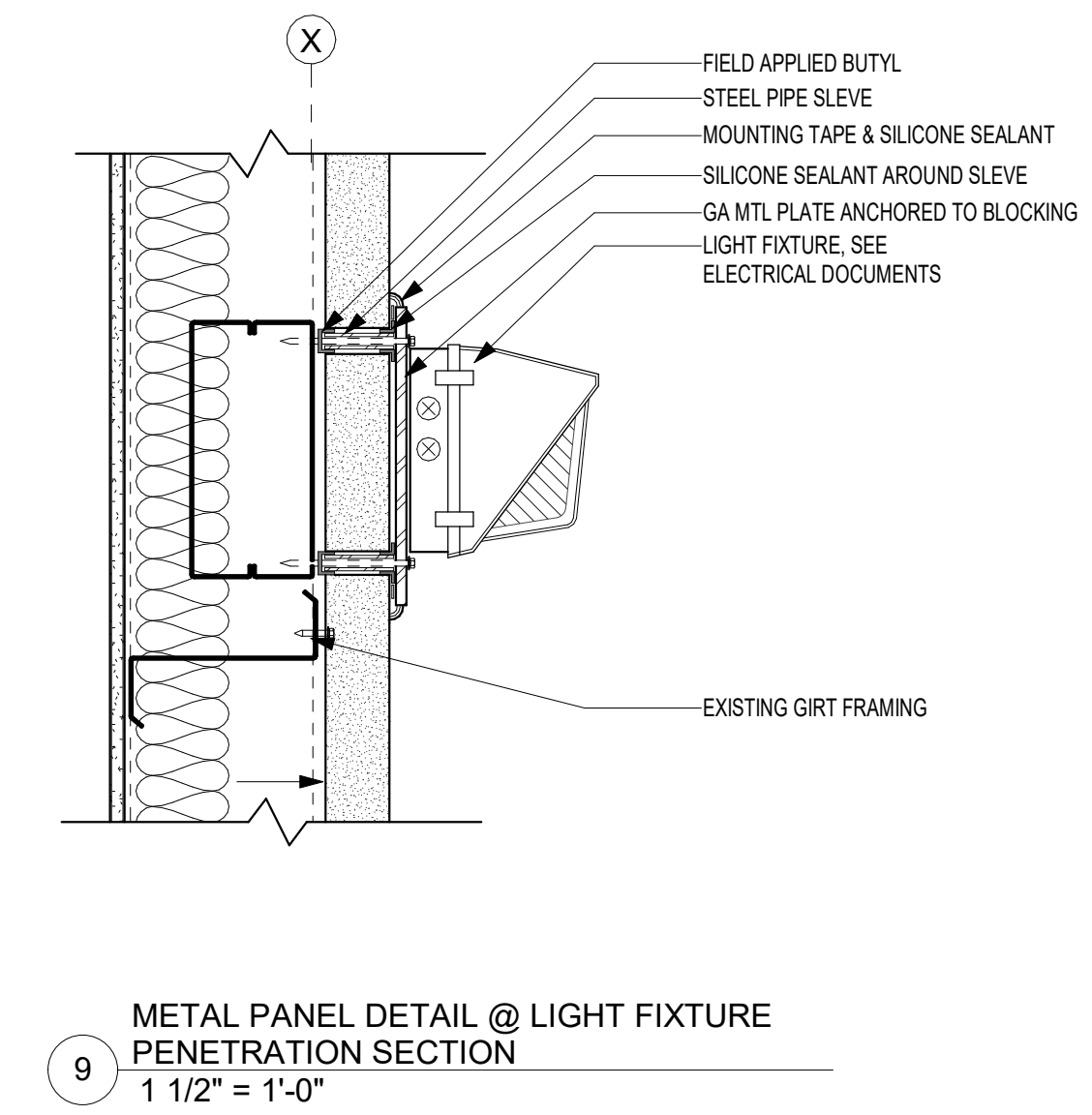
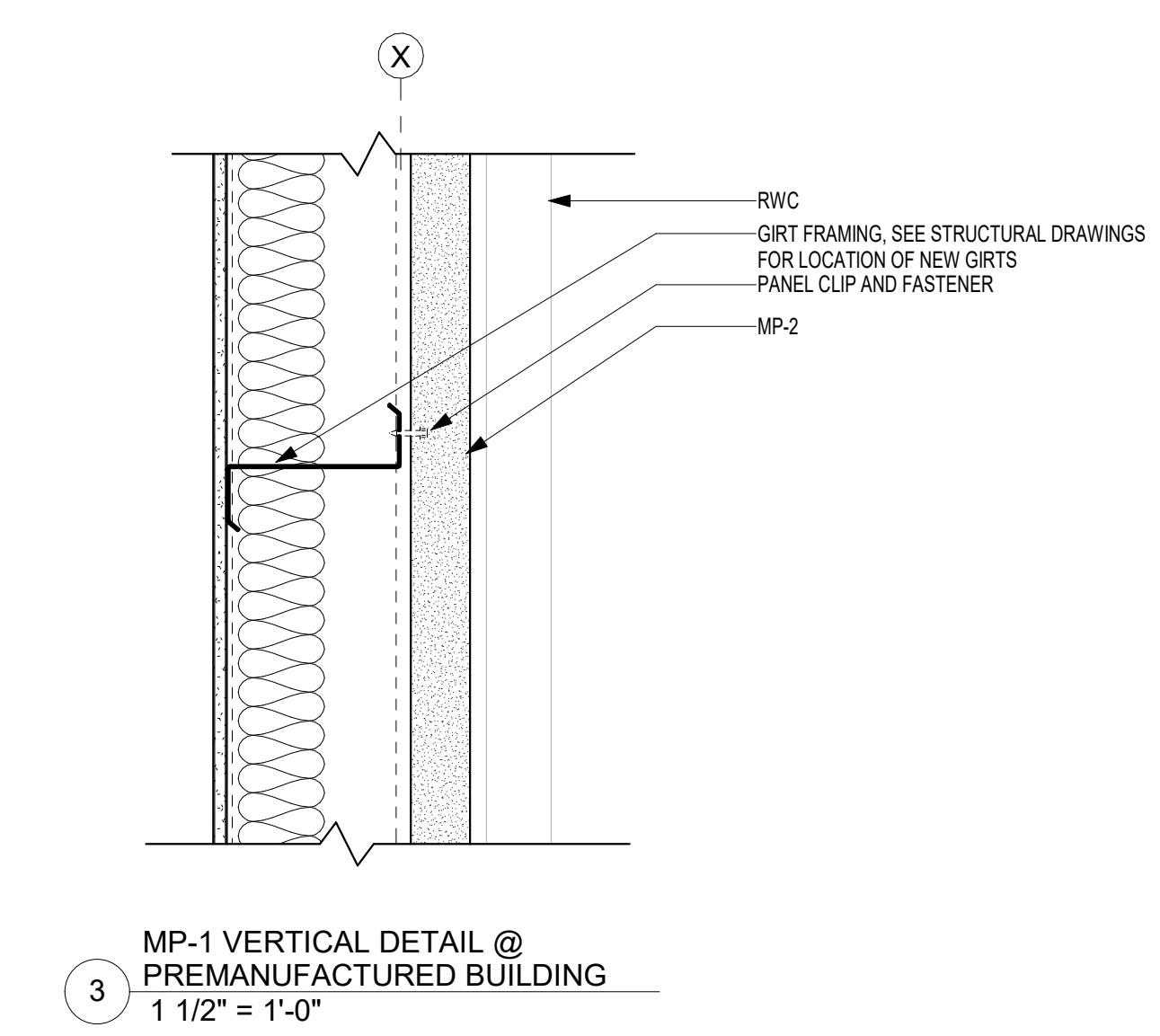
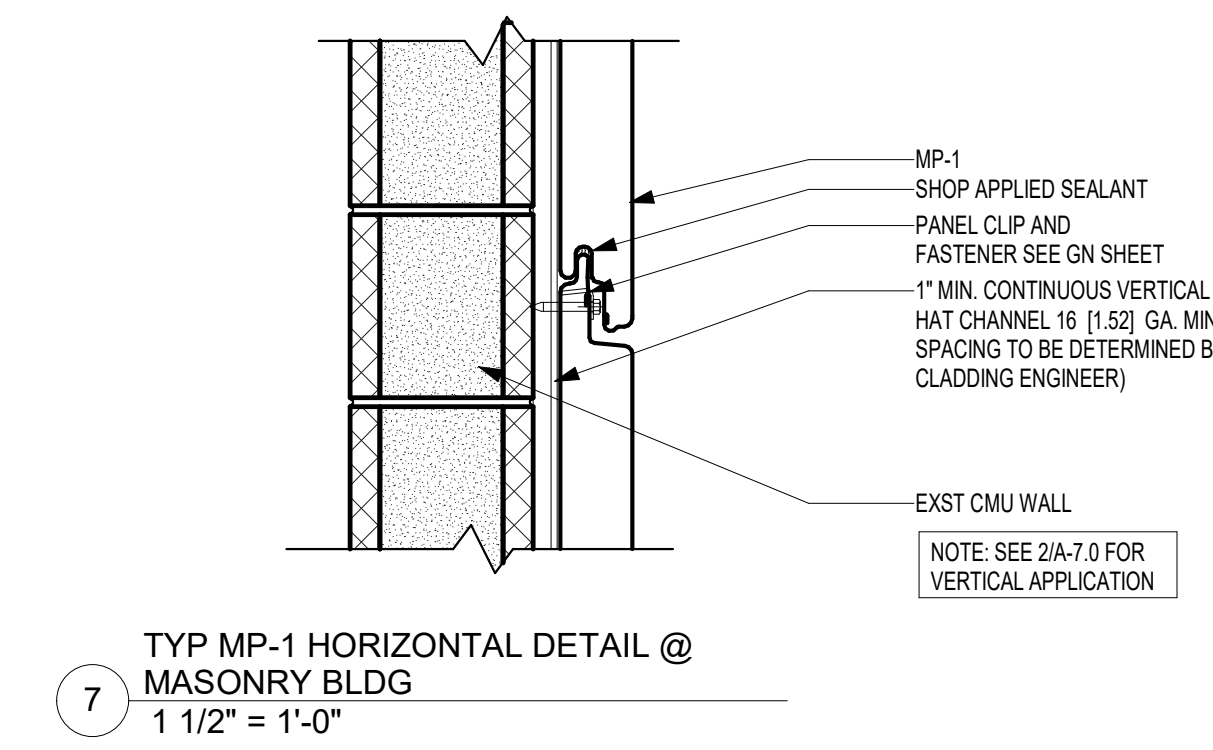
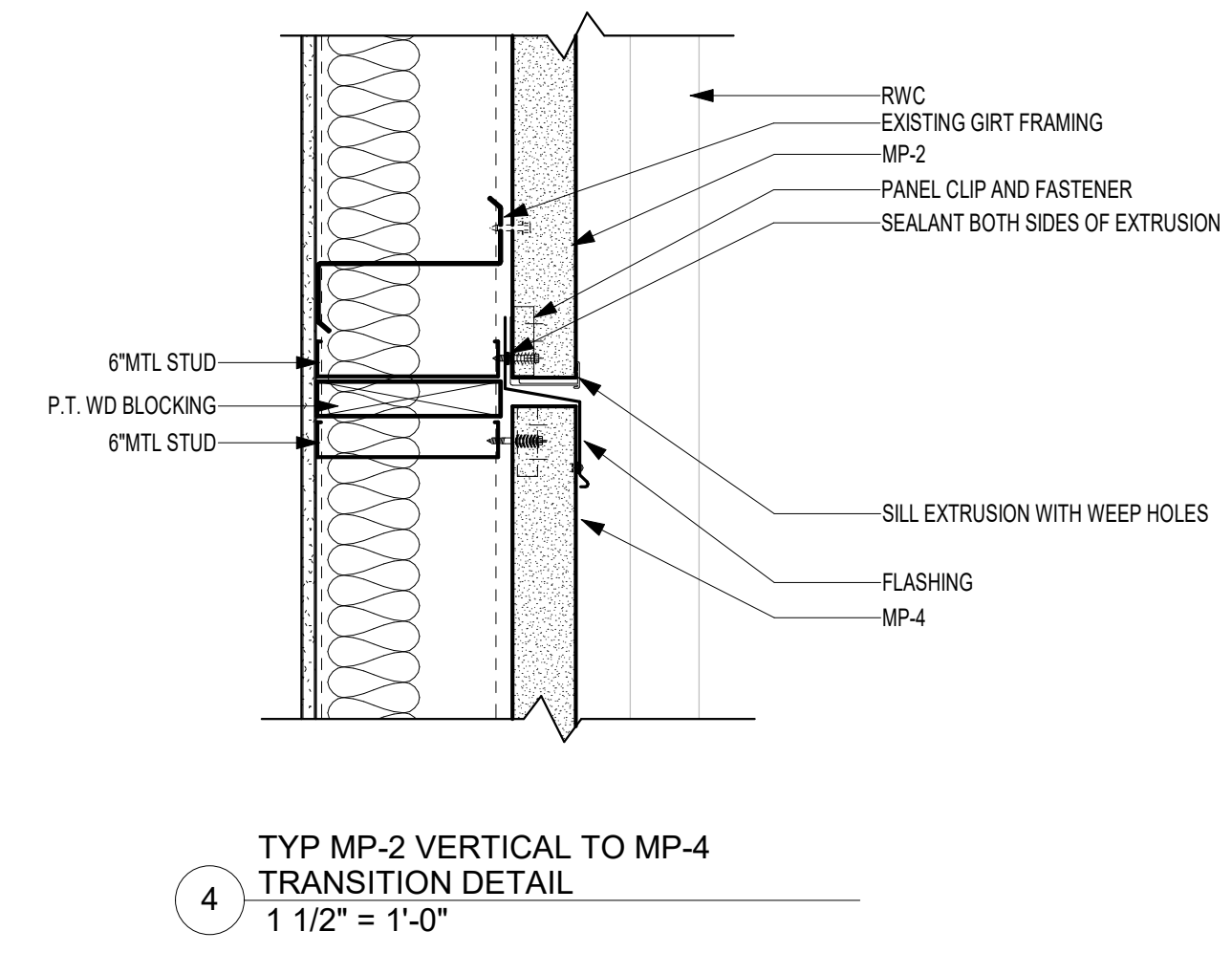
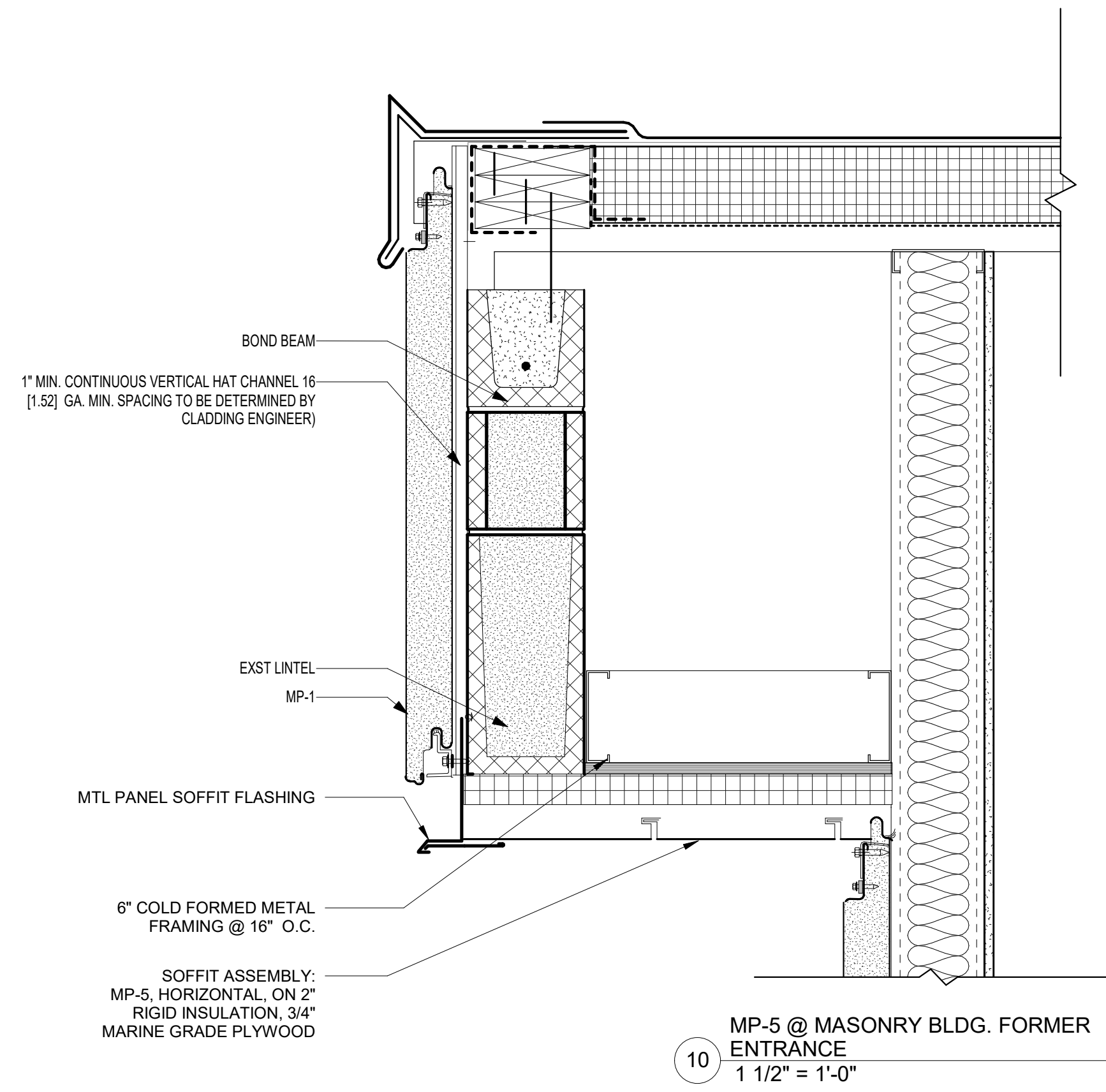
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DRAWN BY <i>IB</i>	DATE 08/26/2024	DRAWING No. A-6.0
CHECKED BY 4K	SCALE 1/8" = 1'-0"	

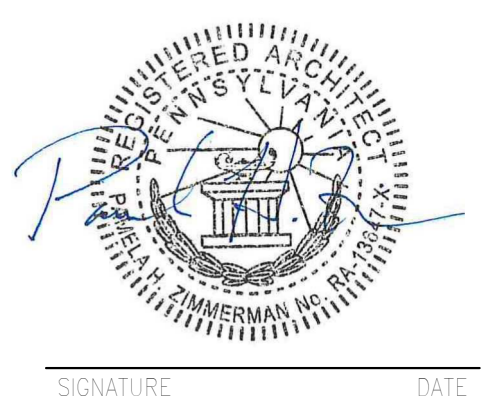




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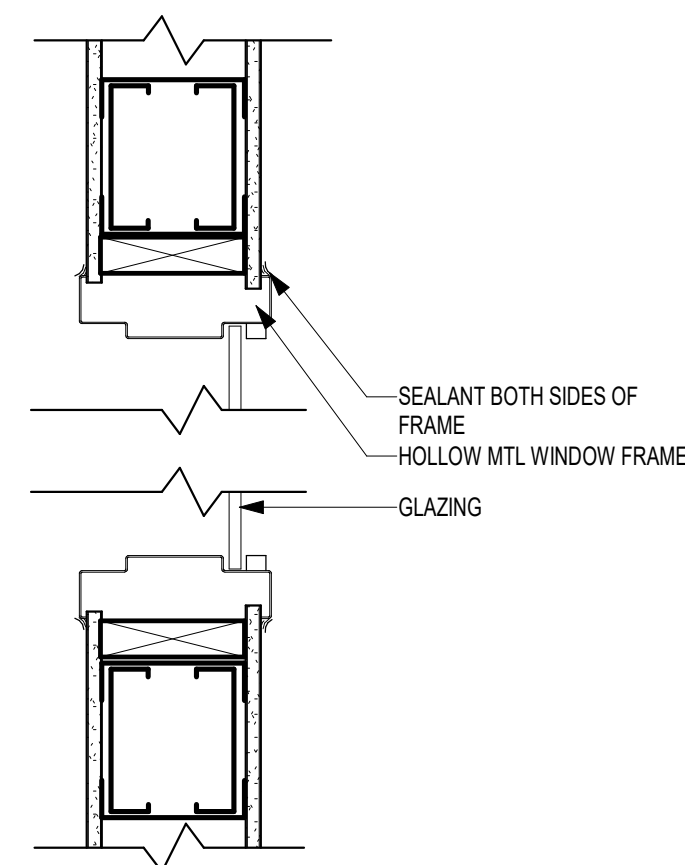
BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT - REVISED 02/27/2024	

RECORD - REVISIONS
 Construction Document - August 26, 2024

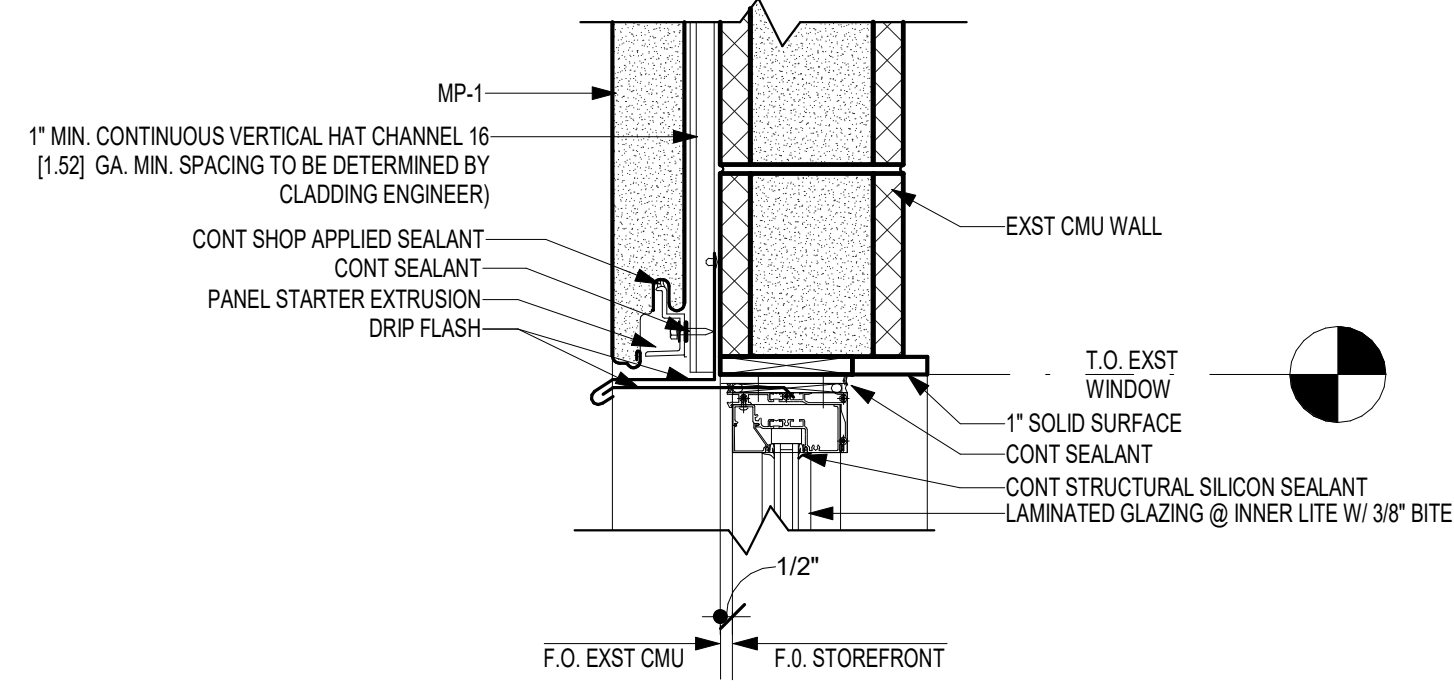


ZIMMERMAN STUDIO LLC
 ARCHITECTURE + PROJECT MANAGEMENT

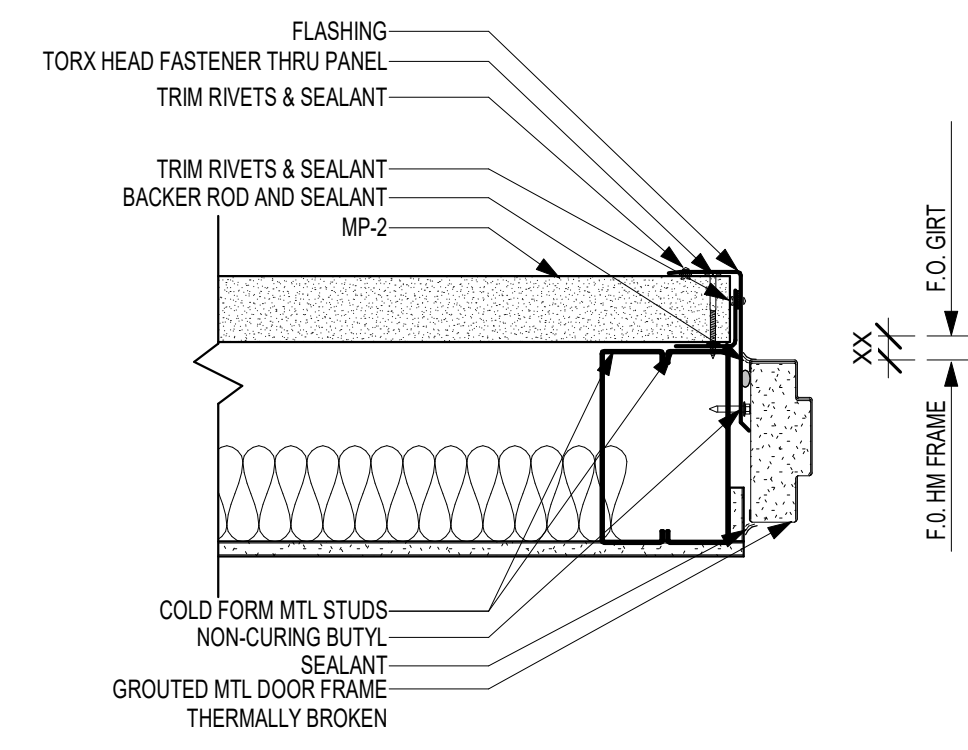
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PA 19044
 D.G.S. PROJECT No. **DGS C-0961-0044 PHASE 01**
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
EXTERIOR WALL DETAILS
 DRAWN BY **IB** DATE **08/26/2024** DRAWING No. **A-7.0**
 CHECKED BY **AK** SCALE **As Indicated**



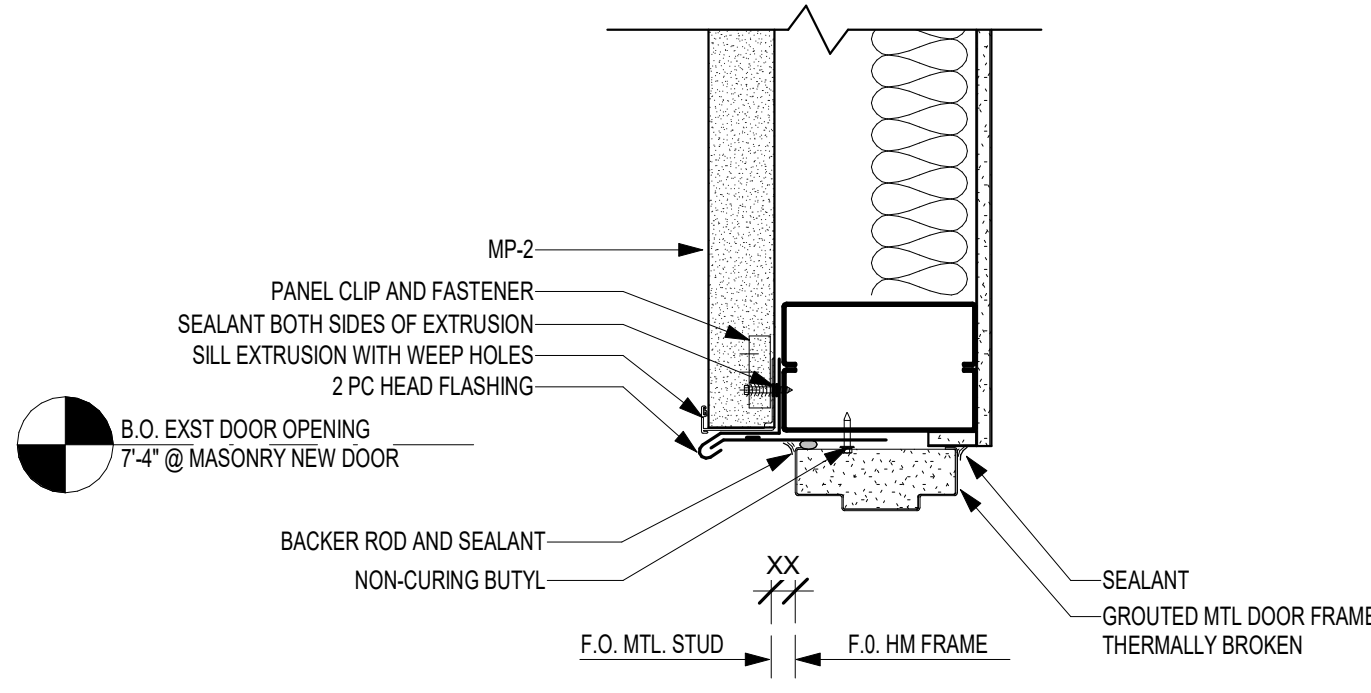
12 HOLLOW METAL INTERIOR WINDOW DETAIL
1 1/2" = 1'-0"



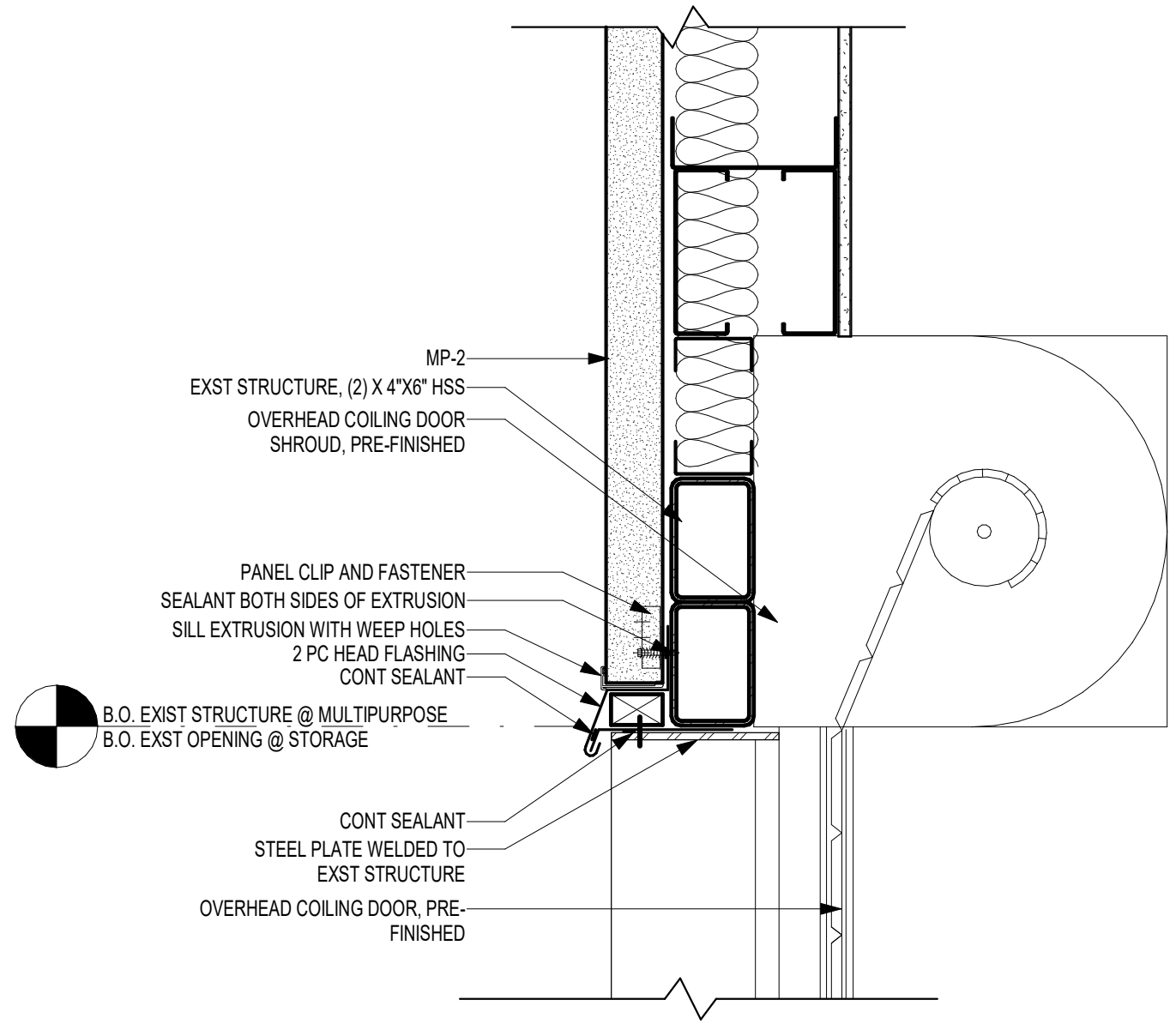
11 WINDOW HEAD @ MASONRY BUILDING
1 1/2" = 1'-0"



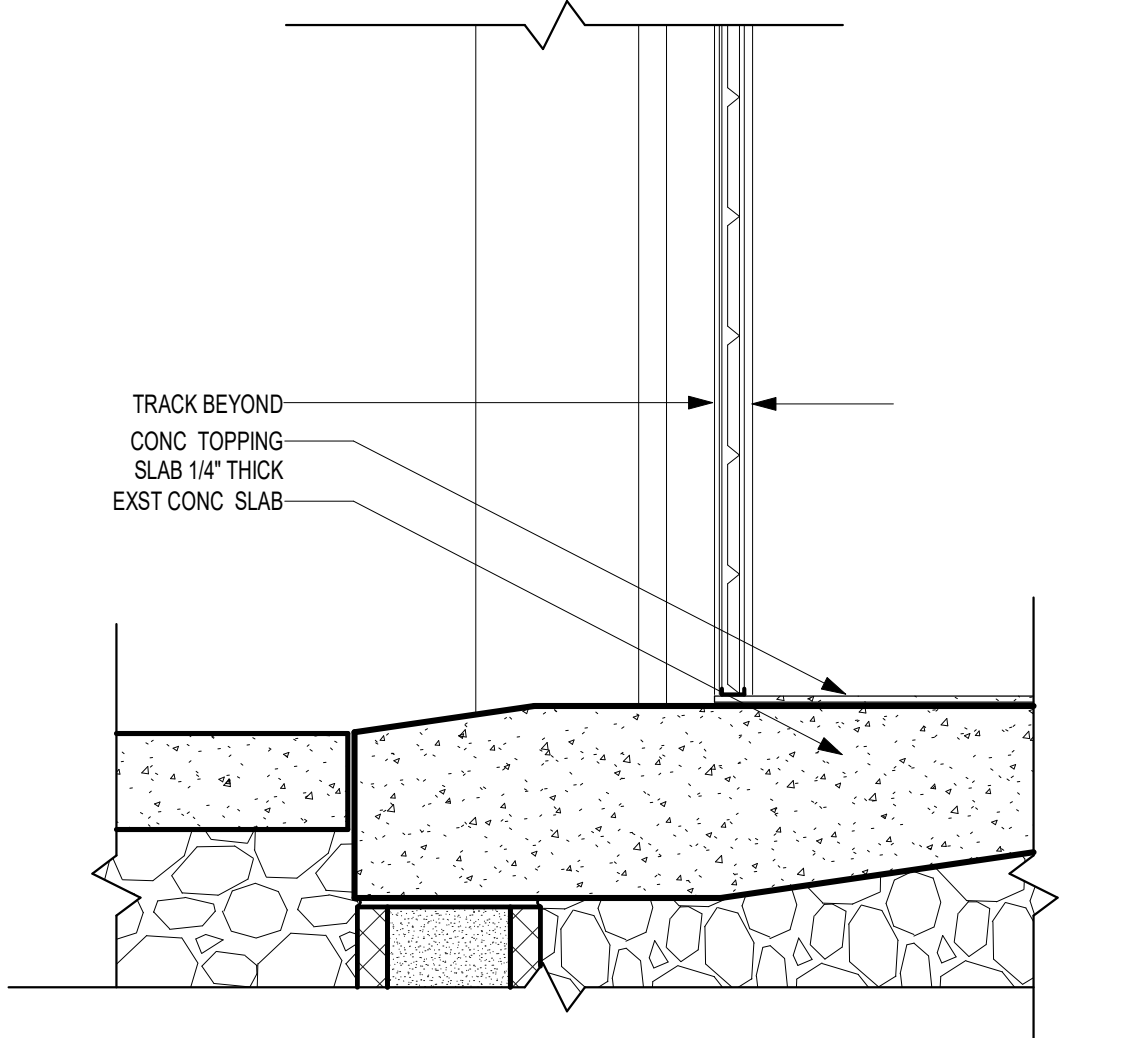
10 HOLLOW METAL DOOR JAMB DETAIL
1 1/2" = 1'-0"



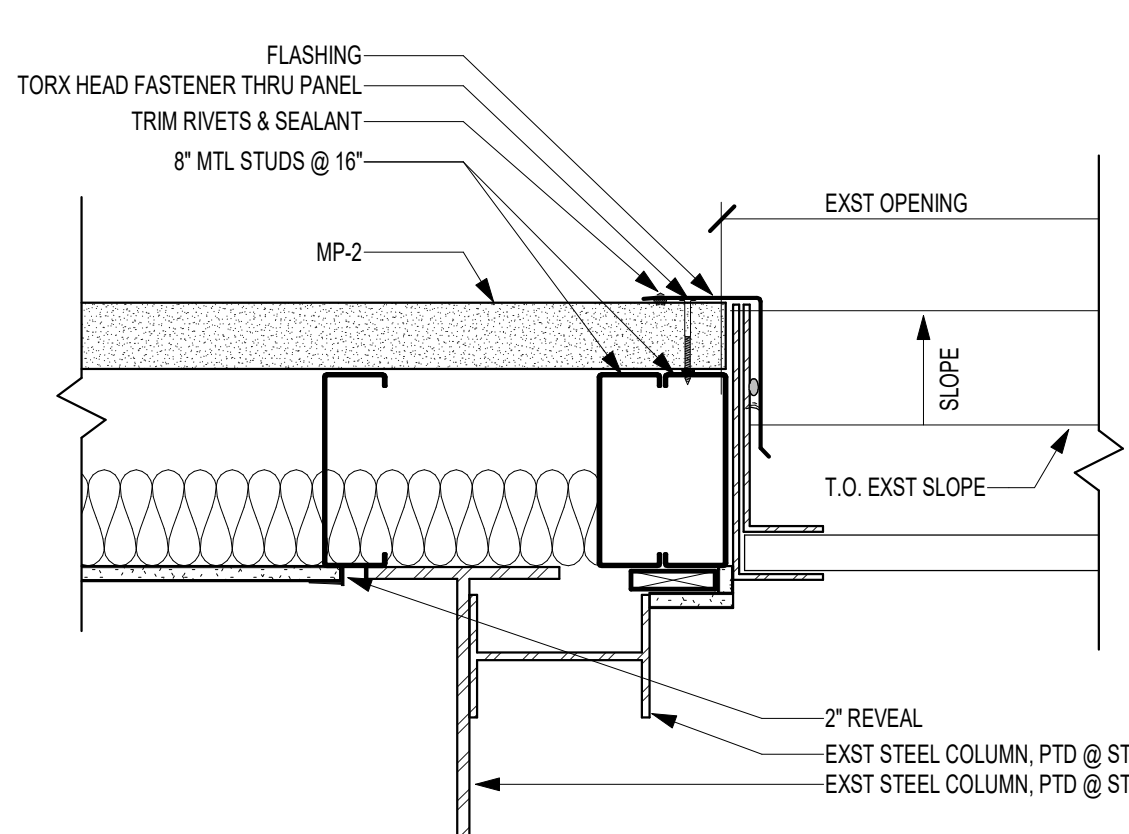
9 HOLLOW METAL DOOR HEAD DETAIL
1 1/2" = 1'-0"



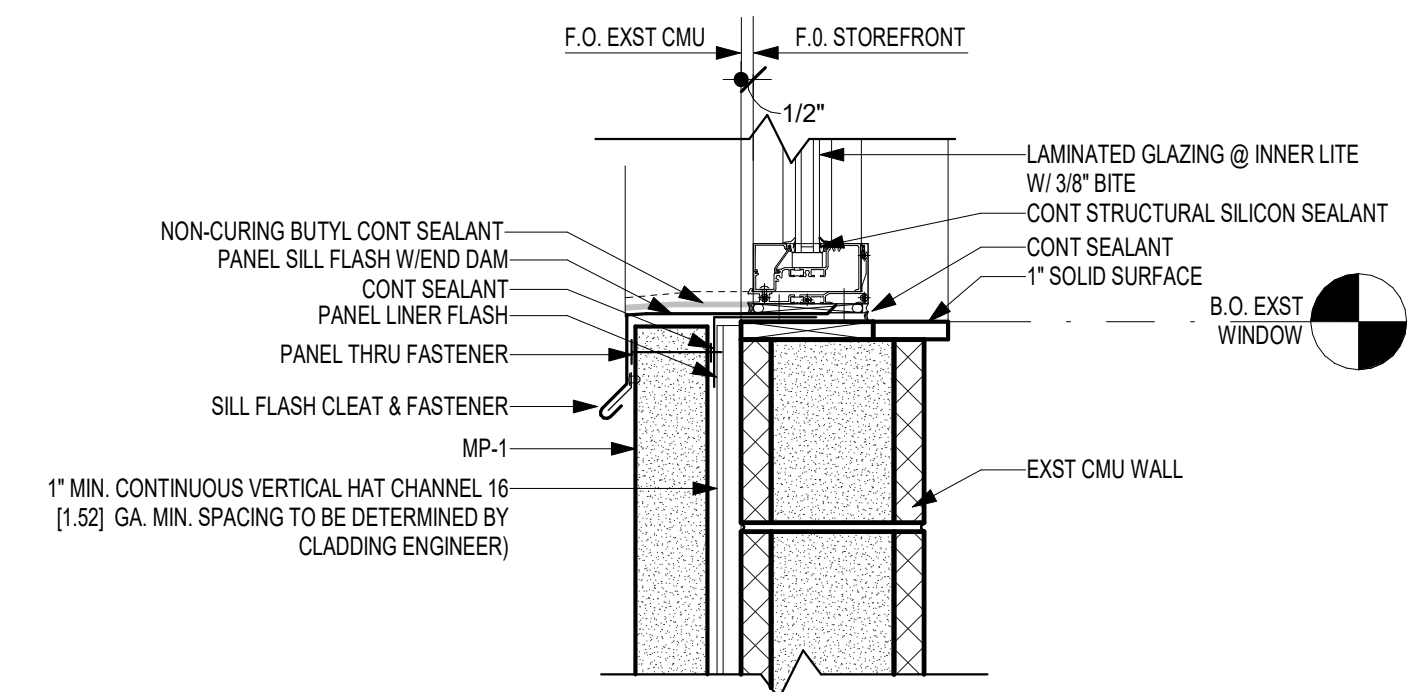
8 TYP OVERHEAD DOOR HEAD @ STORAGE (MULTIPURPOSE SIM)
1 1/2" = 1'-0"



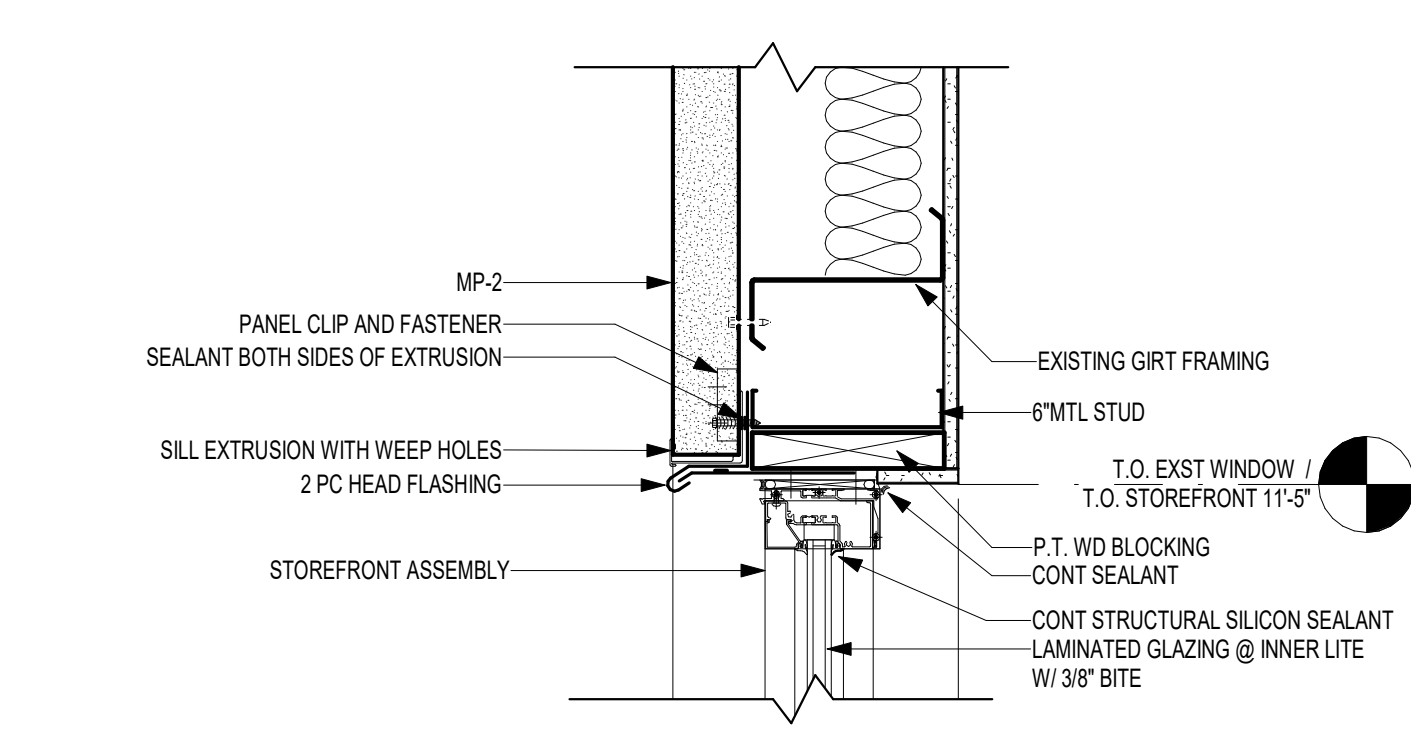
7 TYP OVERHEAD DOOR BASE
1 1/2" = 1'-0"



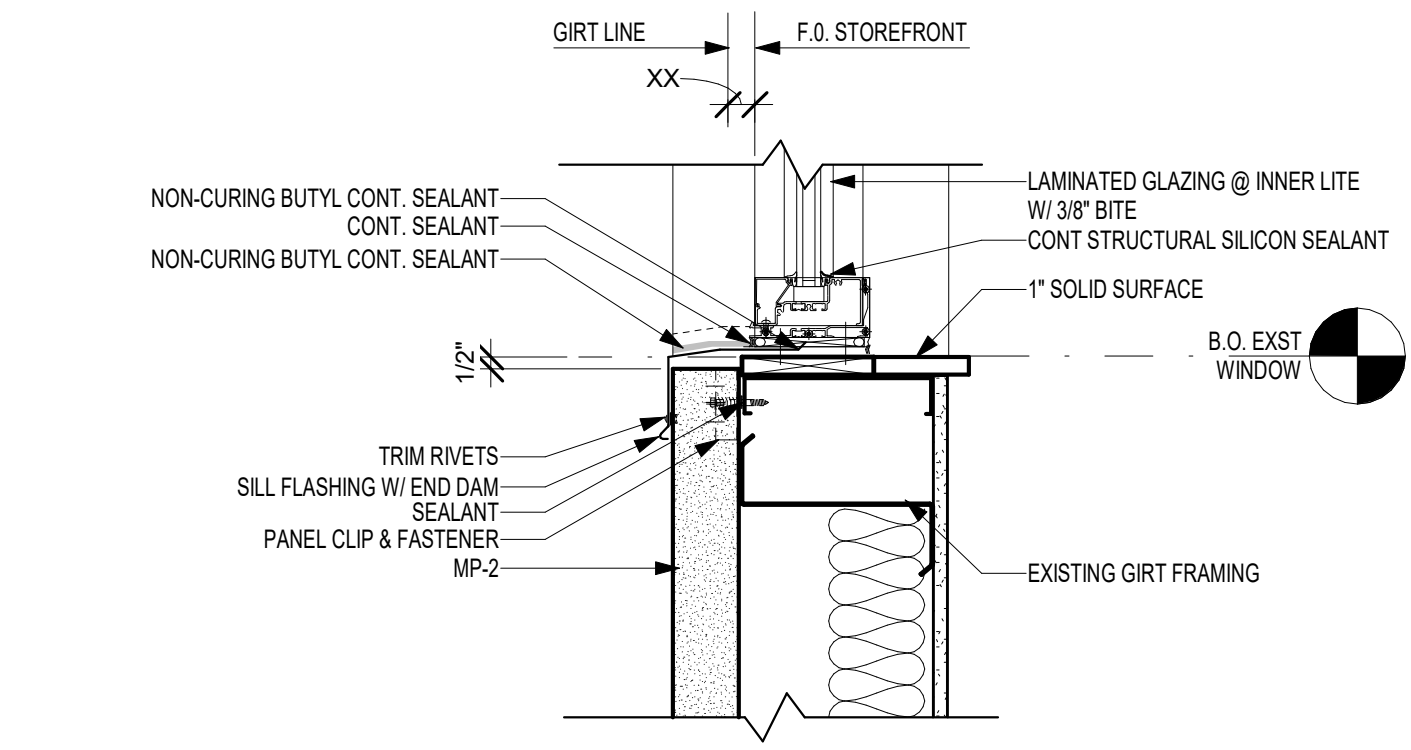
6 COILING DOOR JAMB @ STORAGE (MULTIPURPOSE SIM)
1 1/2" = 1'-0"



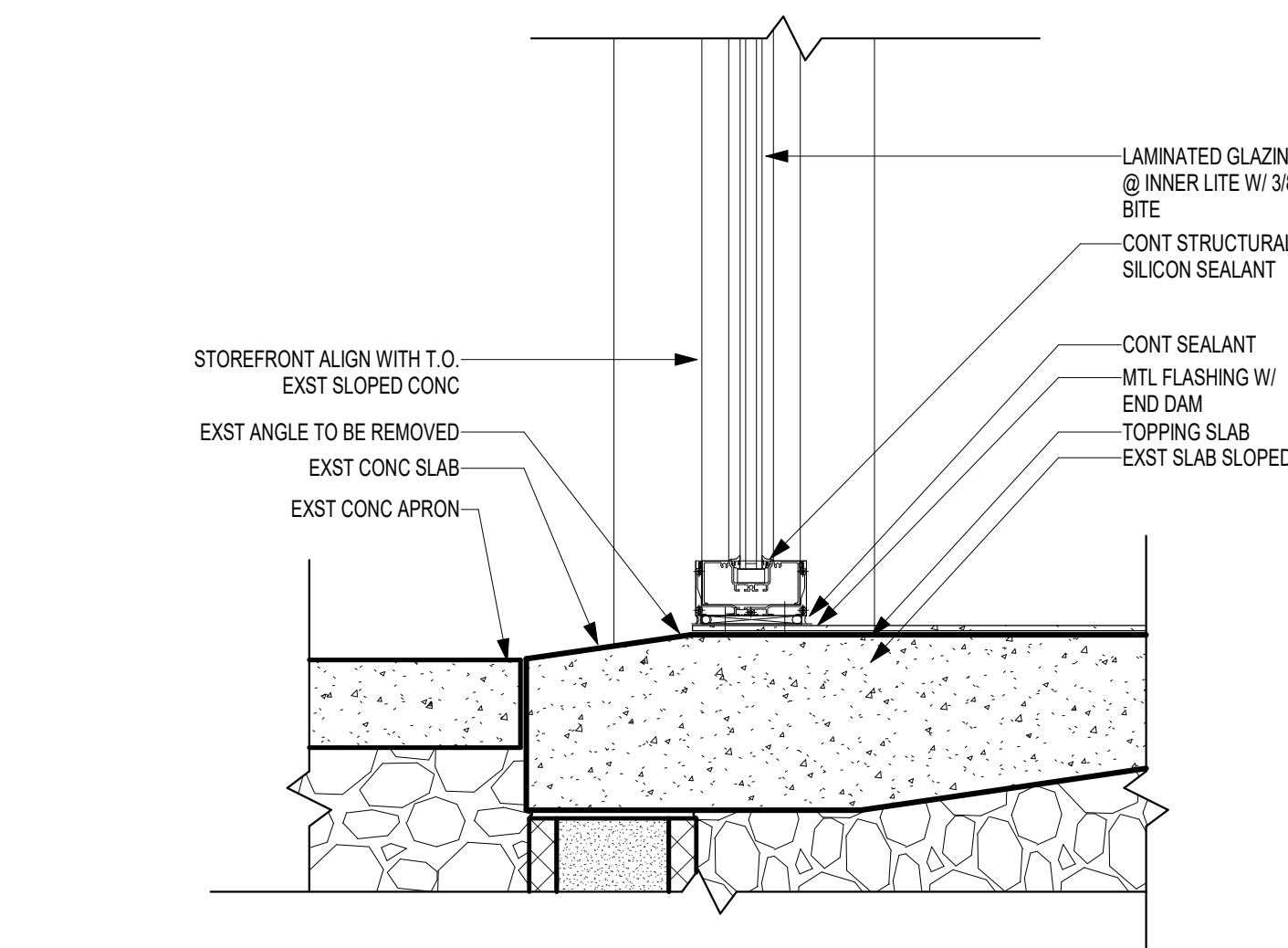
5 WINDOW SILL @ MASONRY BUILDING LOW CELL
1 1/2" = 1'-0"



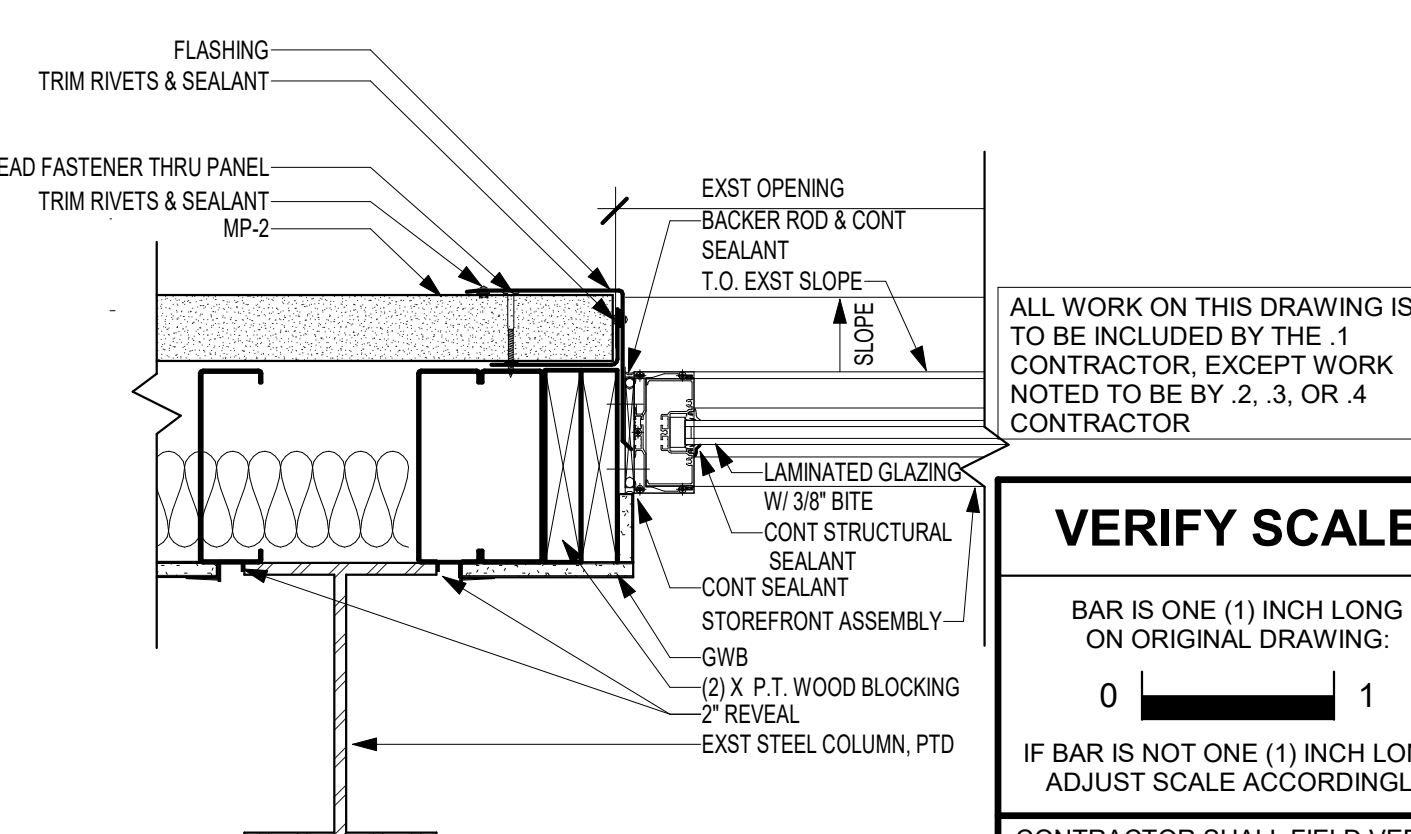
4 WINDOW HEAD @ PREMANUFACTURED BUILDING
1 1/2" = 1'-0"



3 WINDOW SILL @ PREMANUFACTURED BUILDING
1 1/2" = 1'-0"



2 TYP STOREFRONT SILL
1 1/2" = 1'-0"



1 STOREFRONT JAMB @ PREMANUFACTURED BUILDING
1 1/2" = 1'-0"

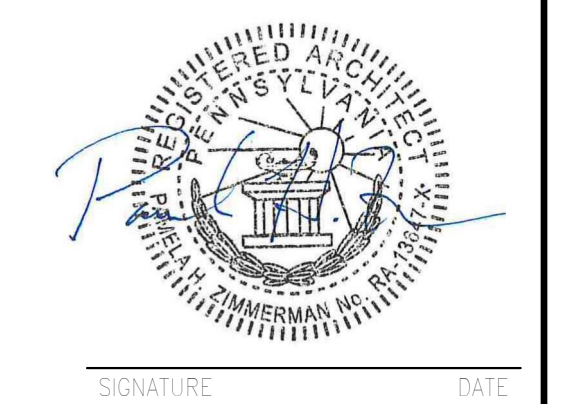
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CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024

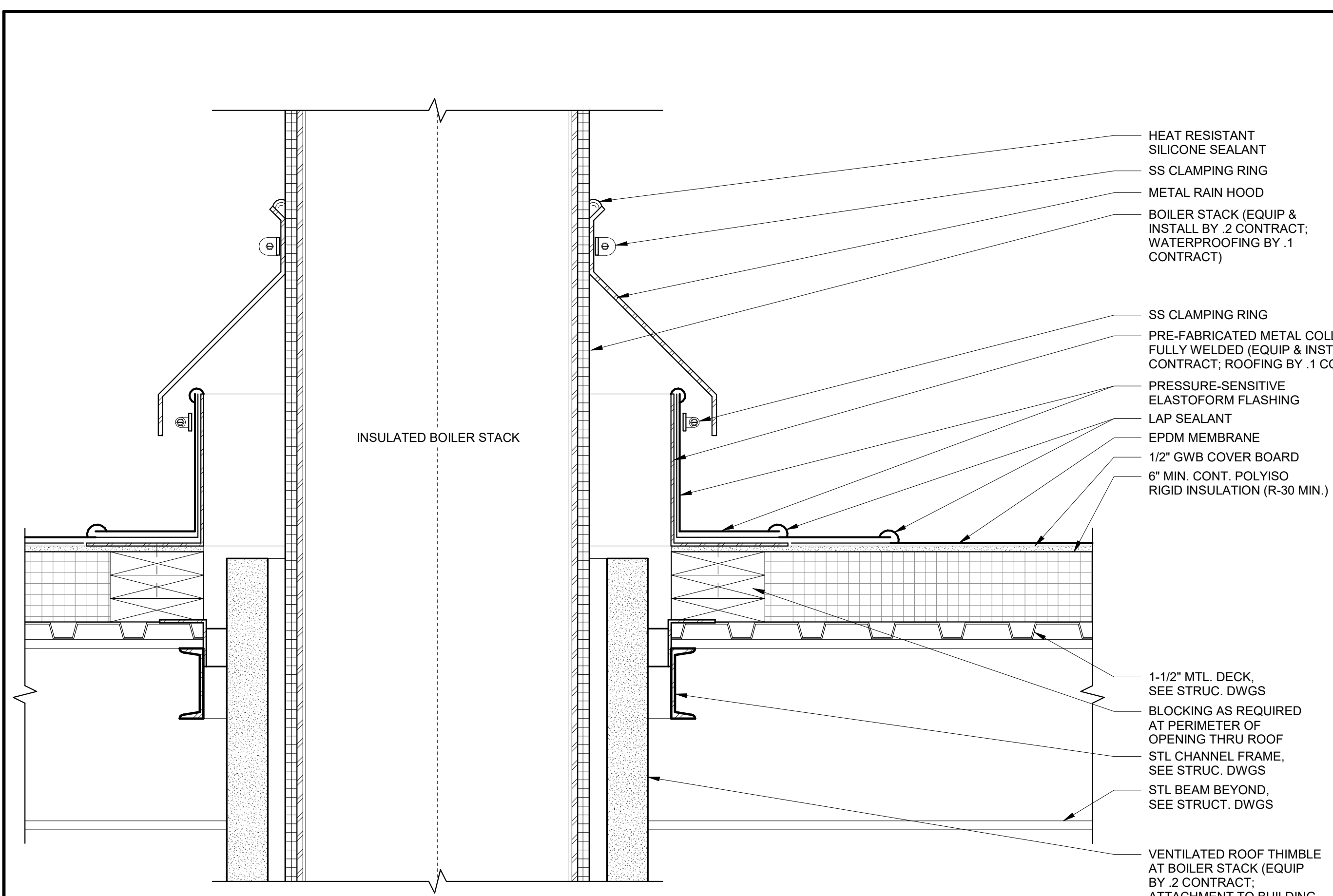


ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

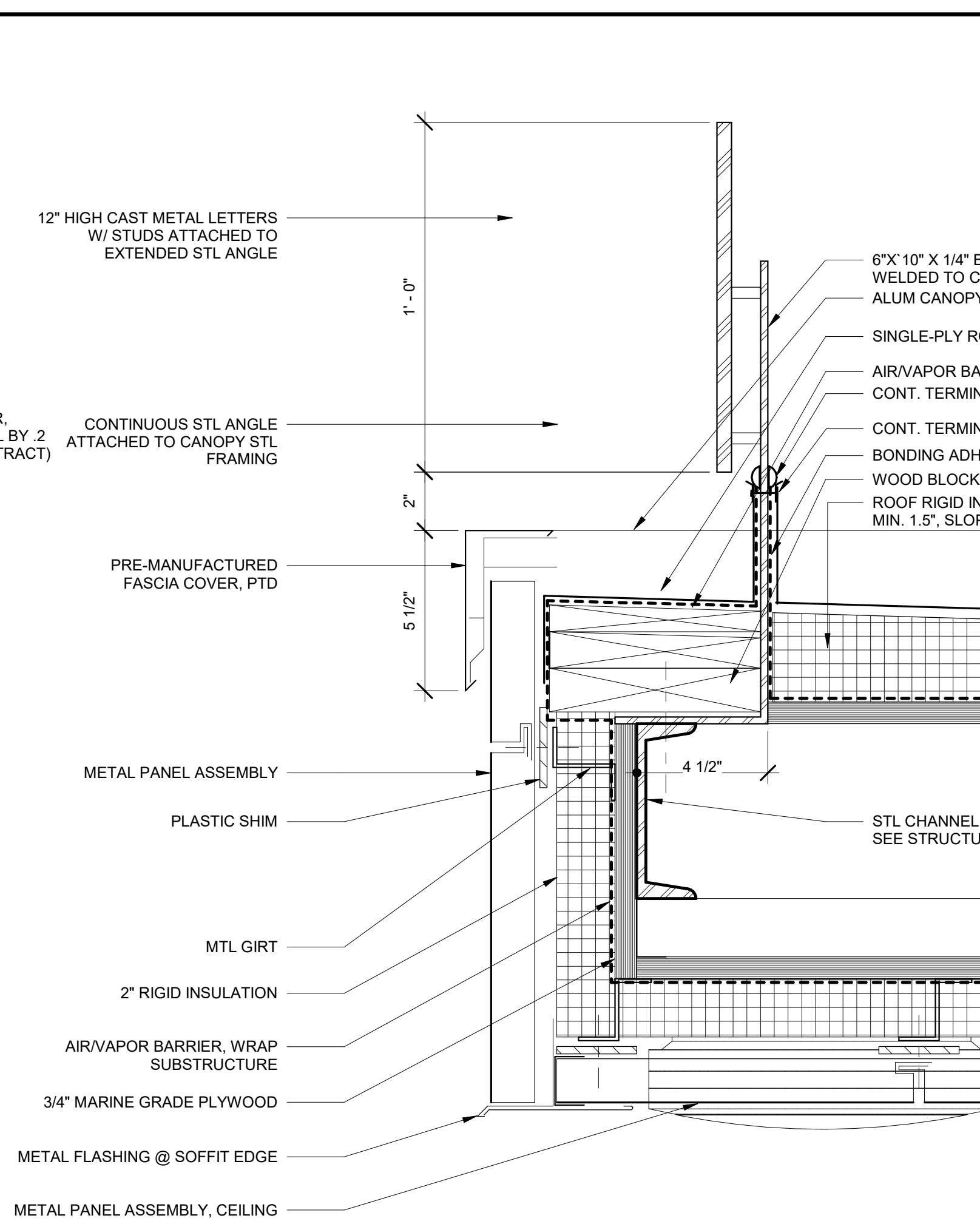
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
EXTERIOR OPENING DETAILS

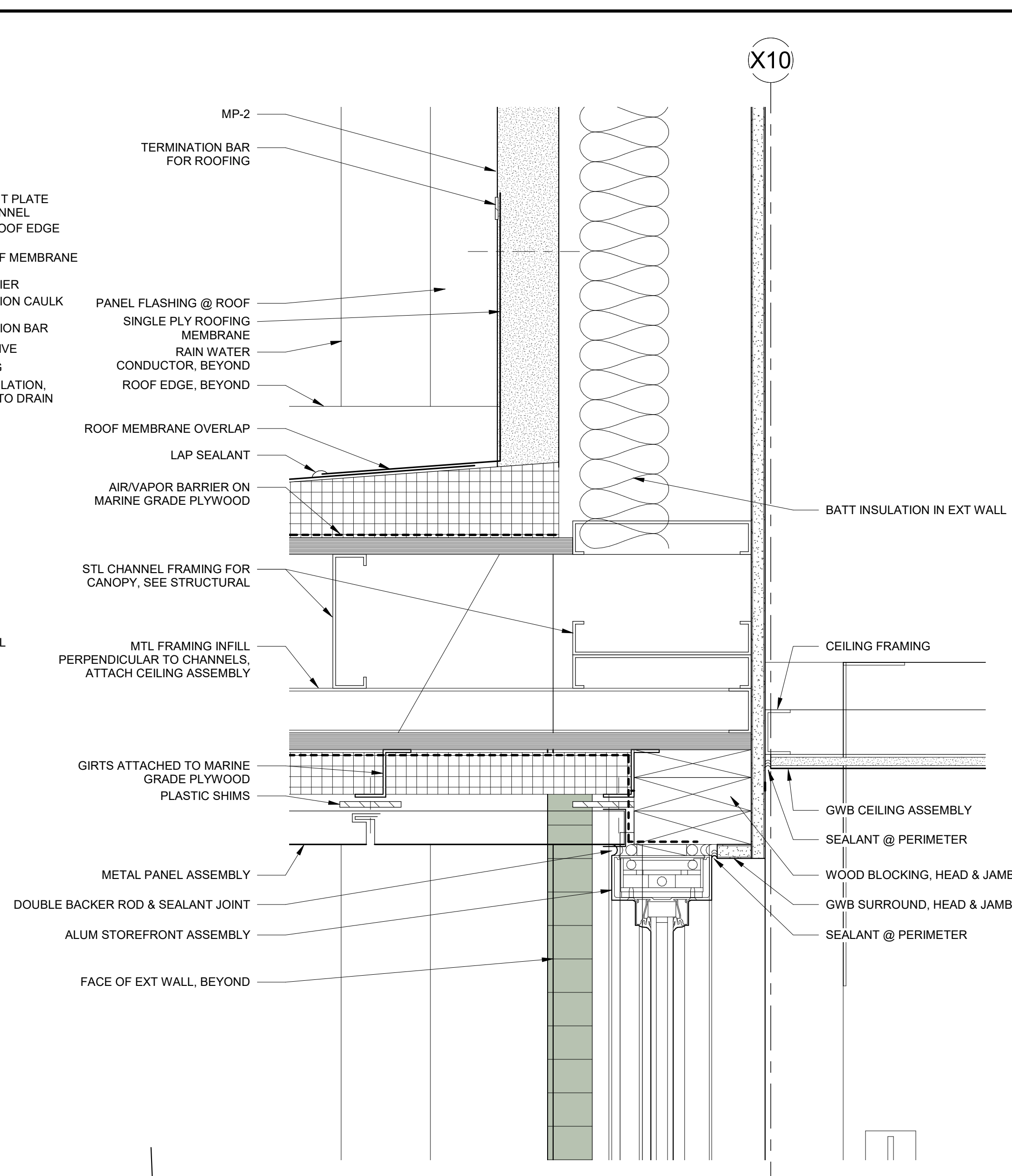
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-7.1
	CHECKED BY AK	SCALE 1 1/2" = 1'-0"	



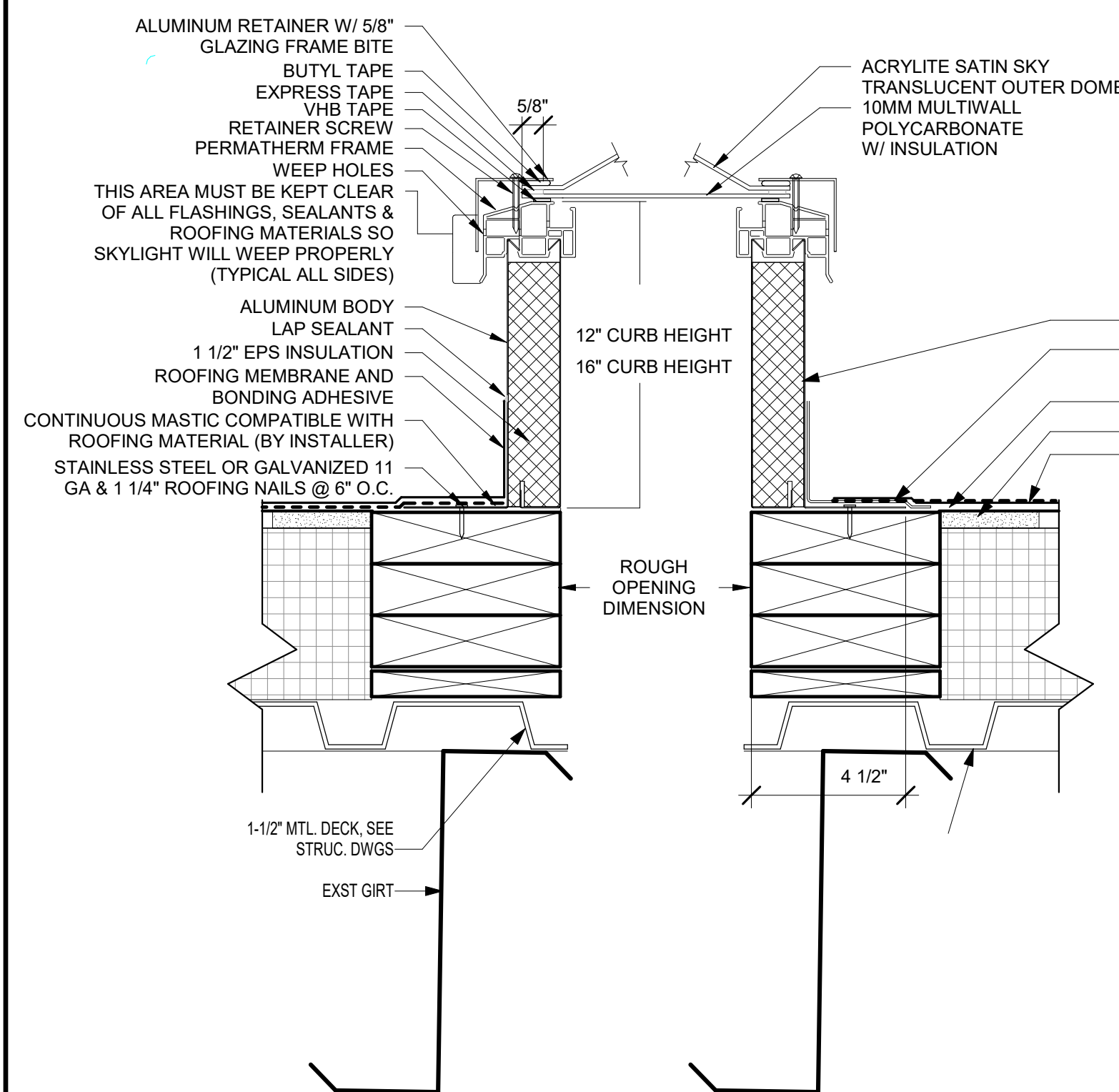
8 TYPICAL DETAILS - BOILER STACK
1 1/2" = 1'-0"



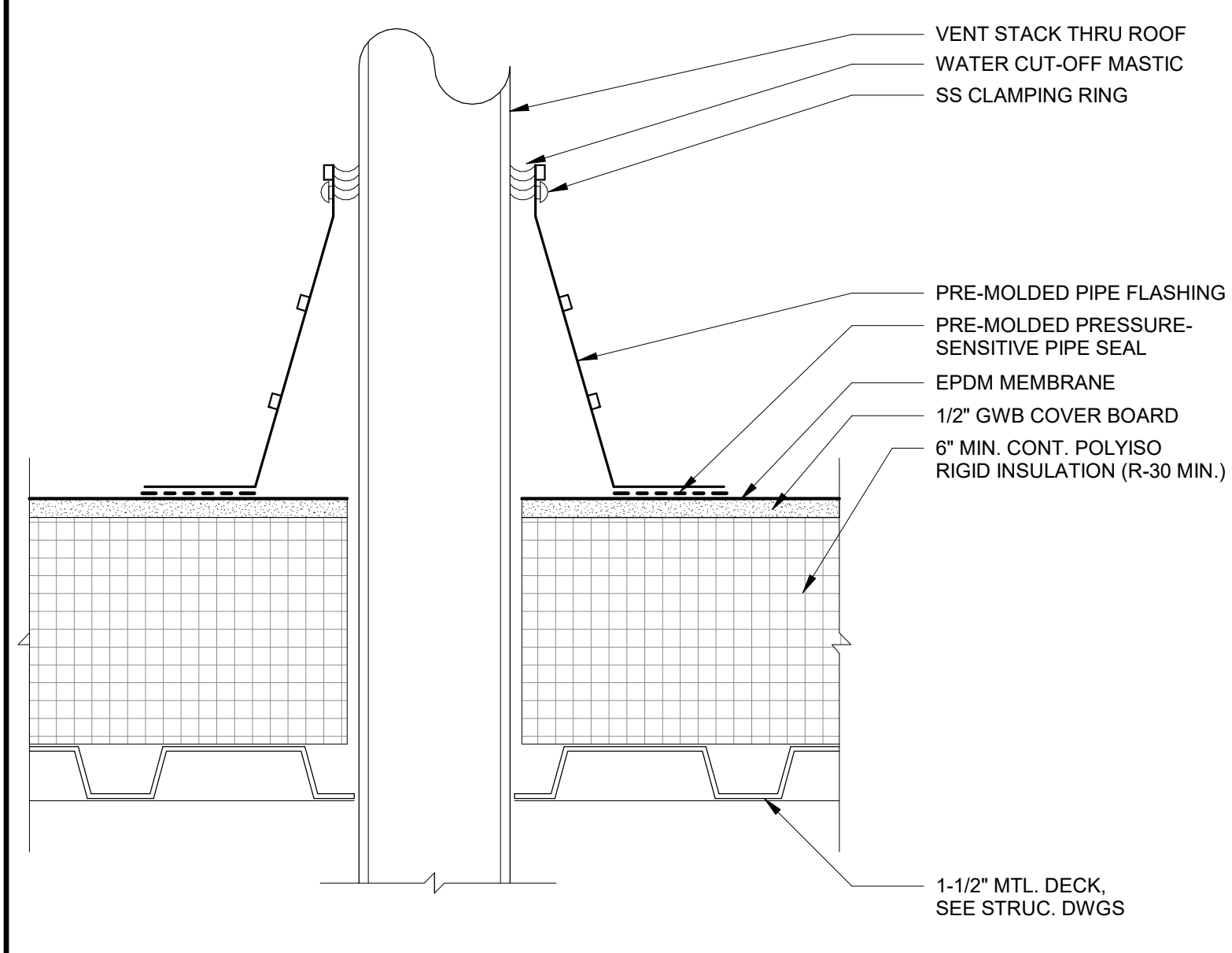
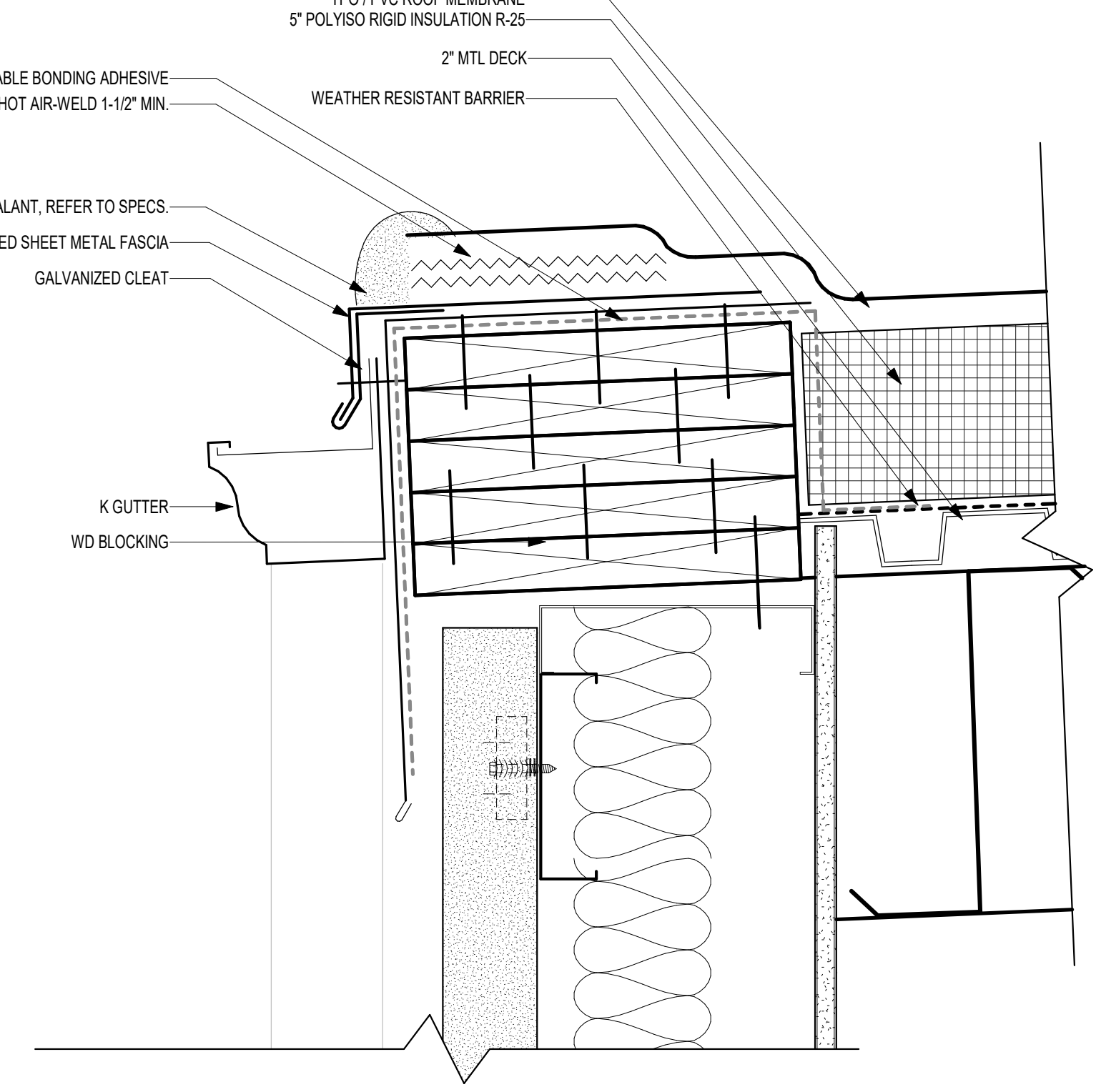
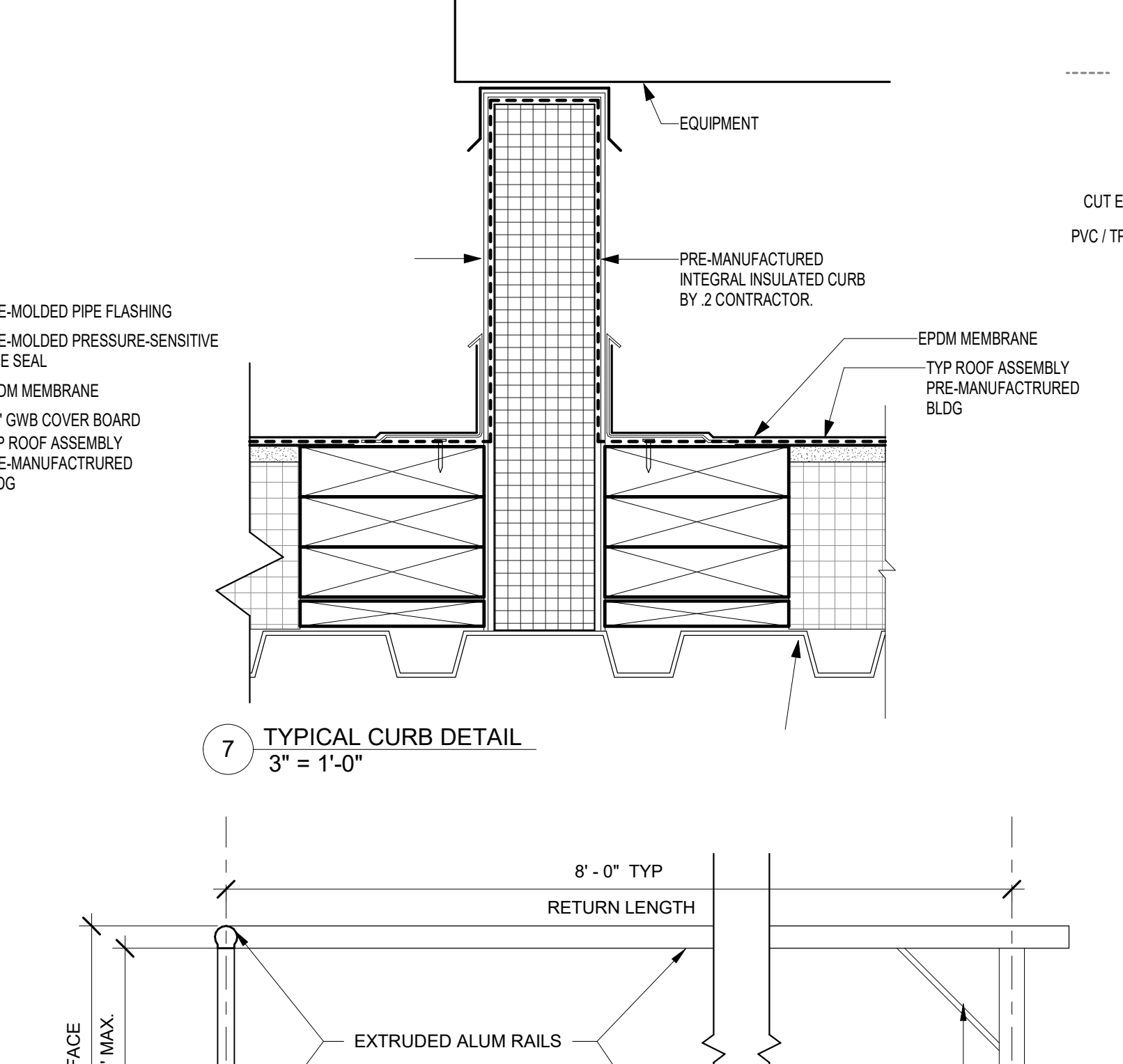
5 DETAIL @ BASE BID-3-CANOPY EDGE
3" = 1'-0"



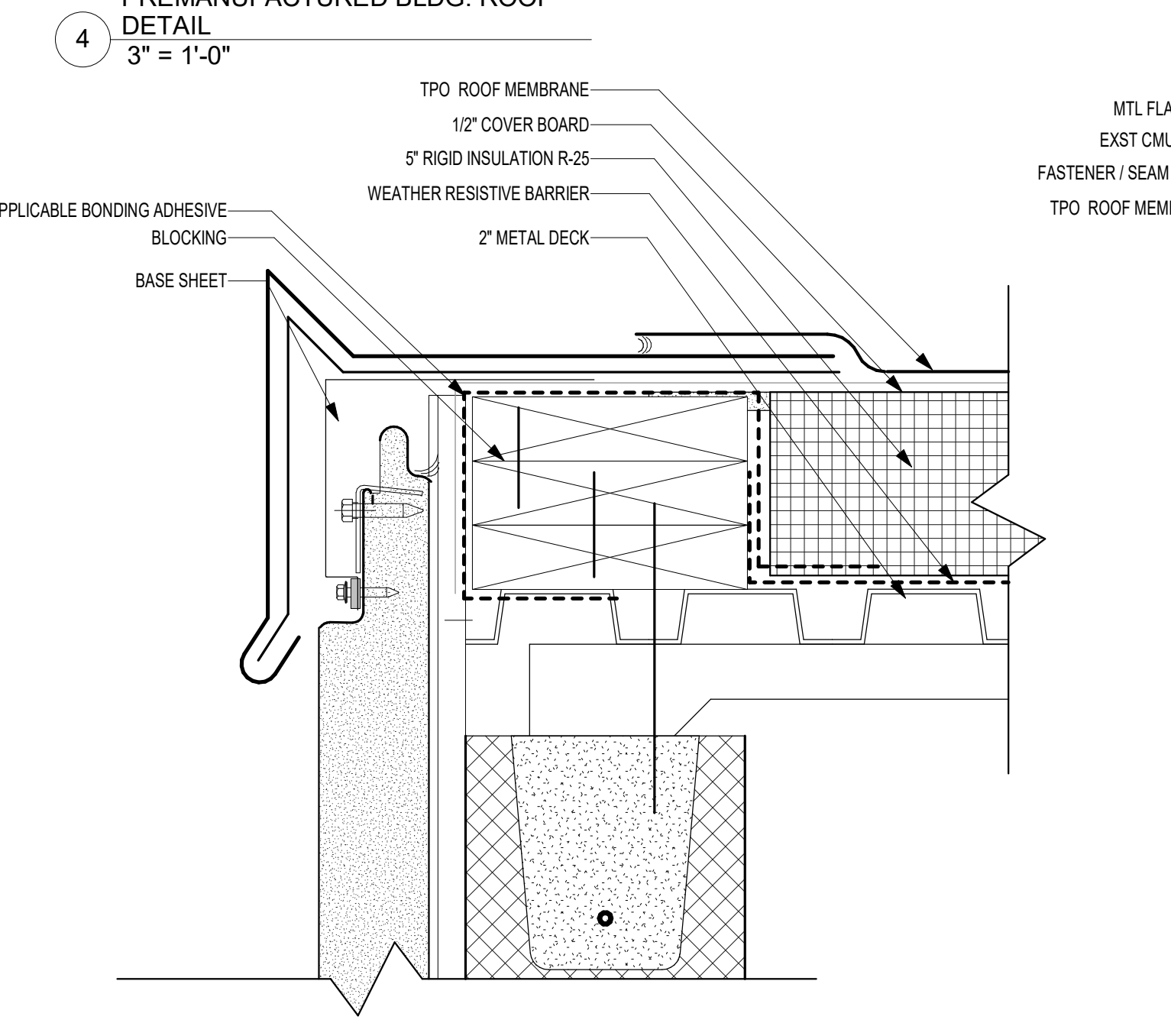
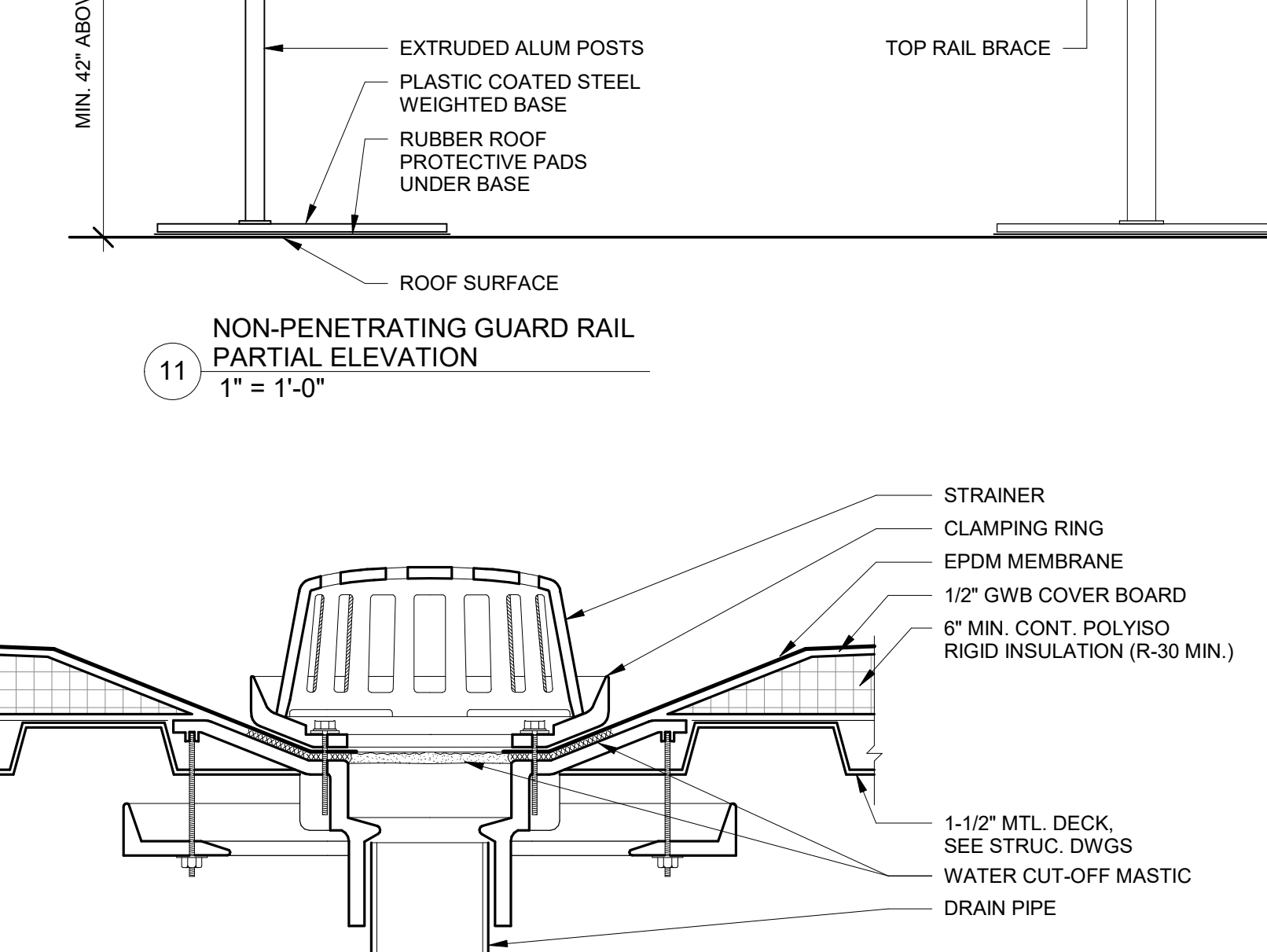
2 DETAIL @ BASE BID-3-CANOPY, EXTERIOR WALL
3" = 1'-0"



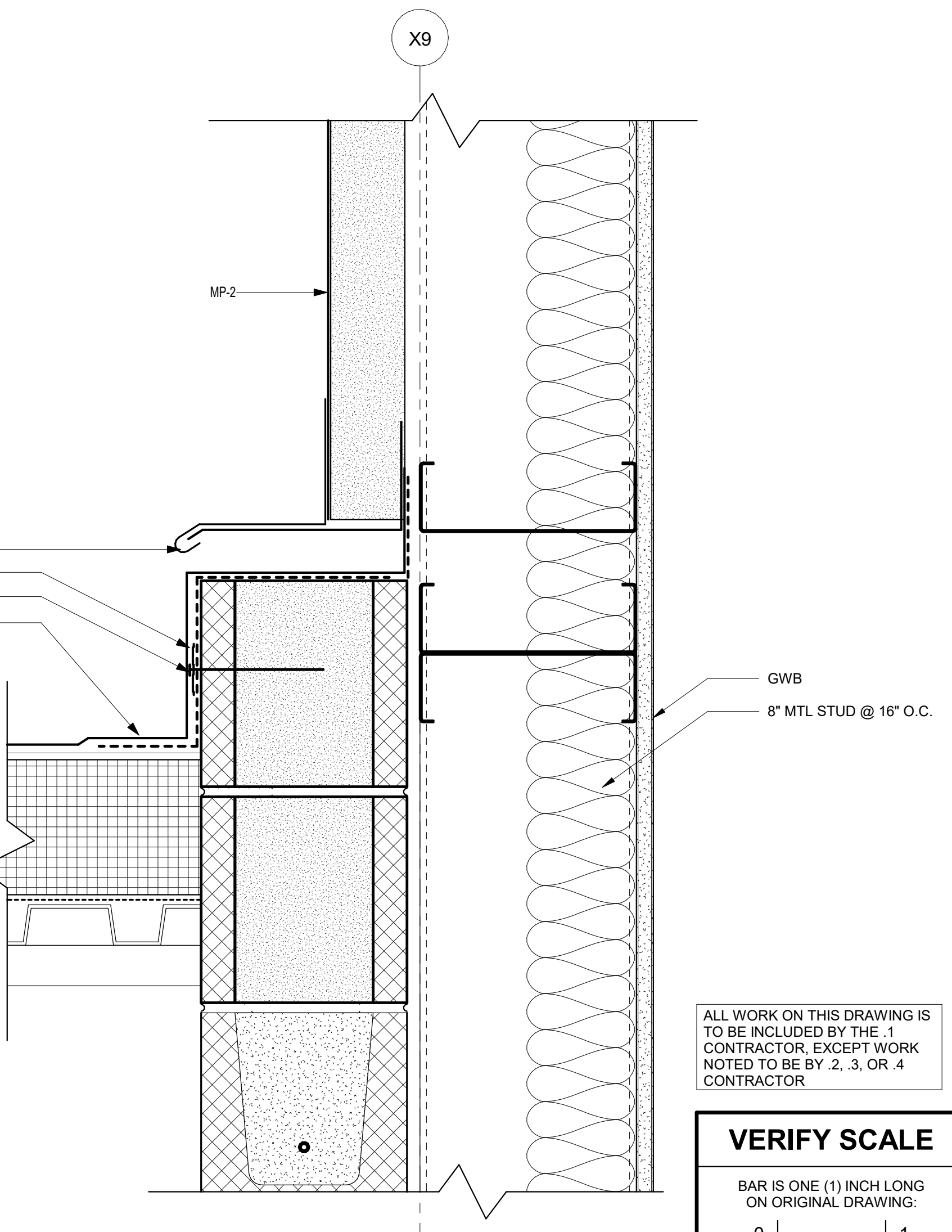
10 TYPICAL DETAIL @ SKYLIGHT
3" = 1'-0"



9 Typical Details - PIPE PENETRATION
3" = 1'-0"



3 MASONRY BLDG. ROOF DETAIL
3" = 1'-0"



1 MASONRY BLDG. ROOF TO WALL DETAIL
3" = 1'-0"

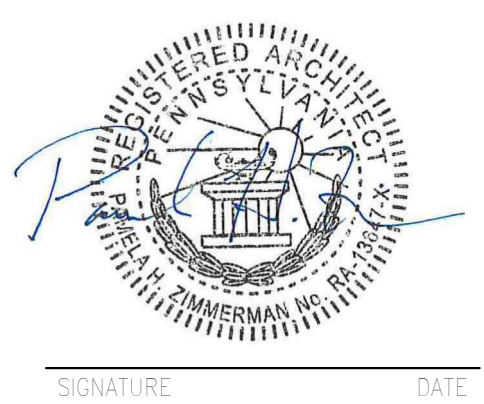
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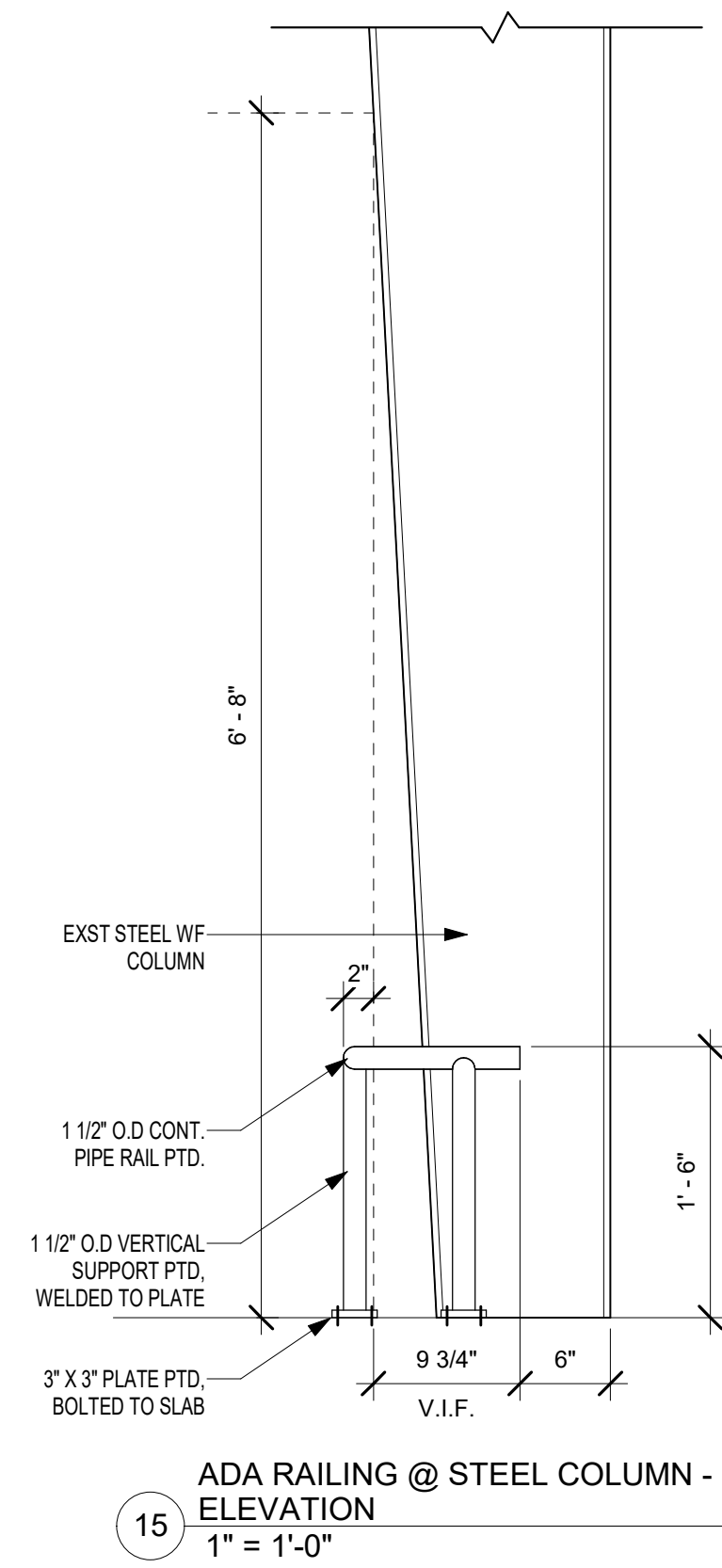
ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

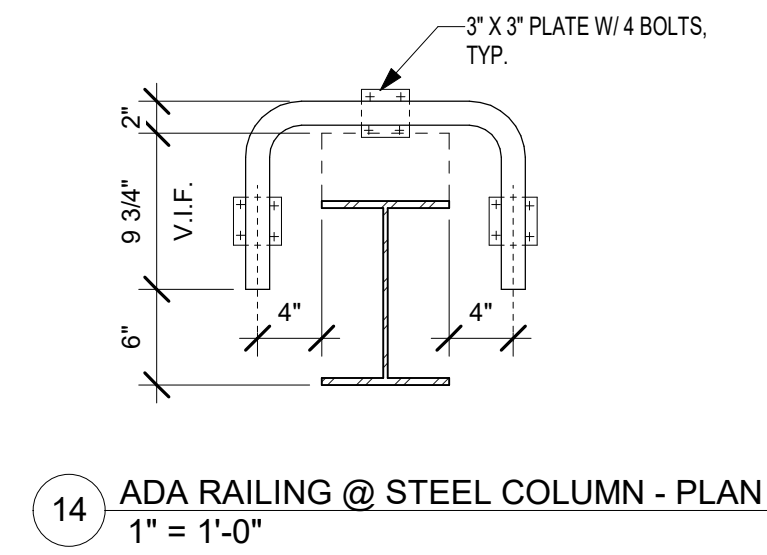
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
ROOF DETAILS

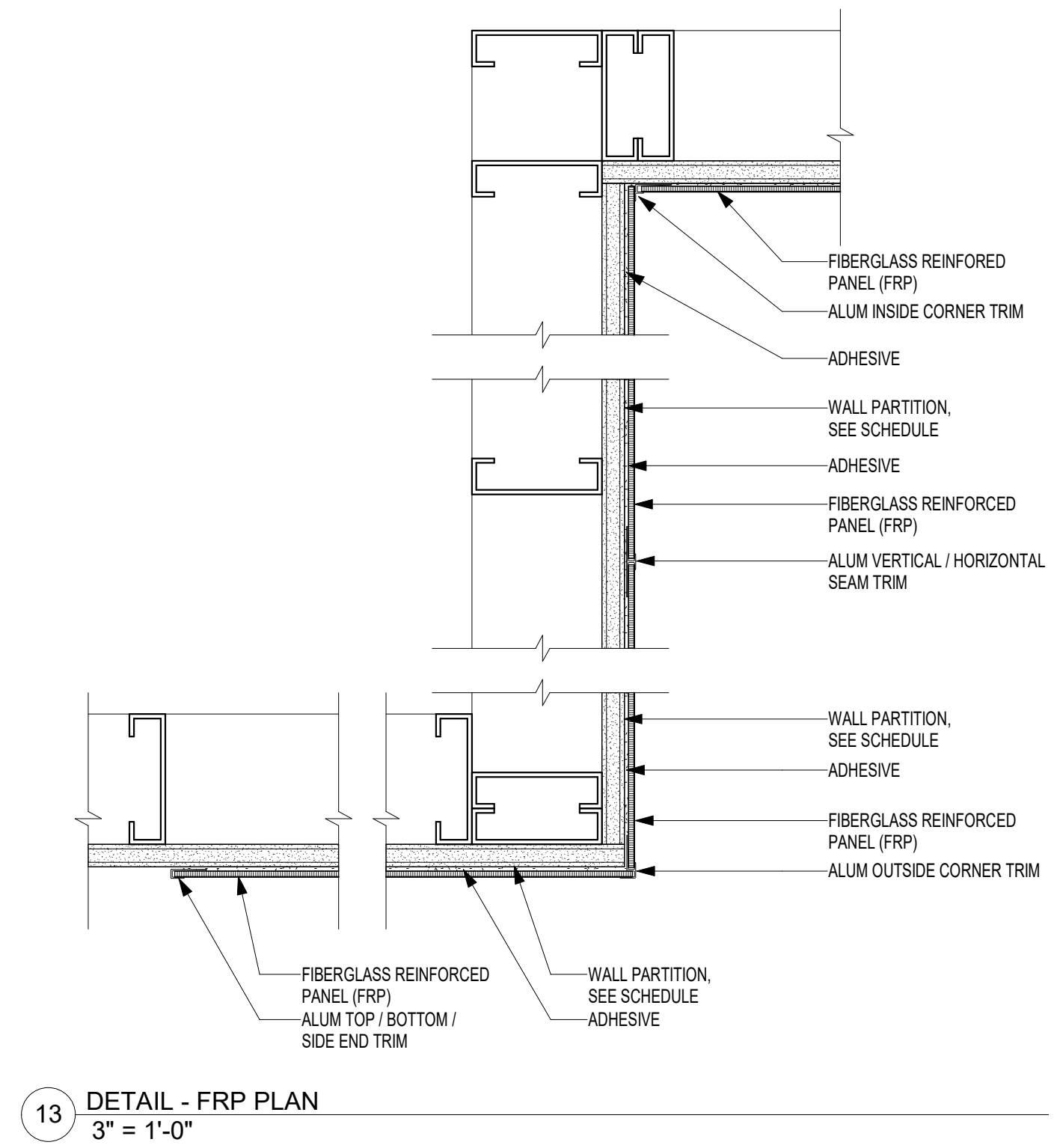
DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-7.2
CHECKED BY AK	SCALE As Indicated	



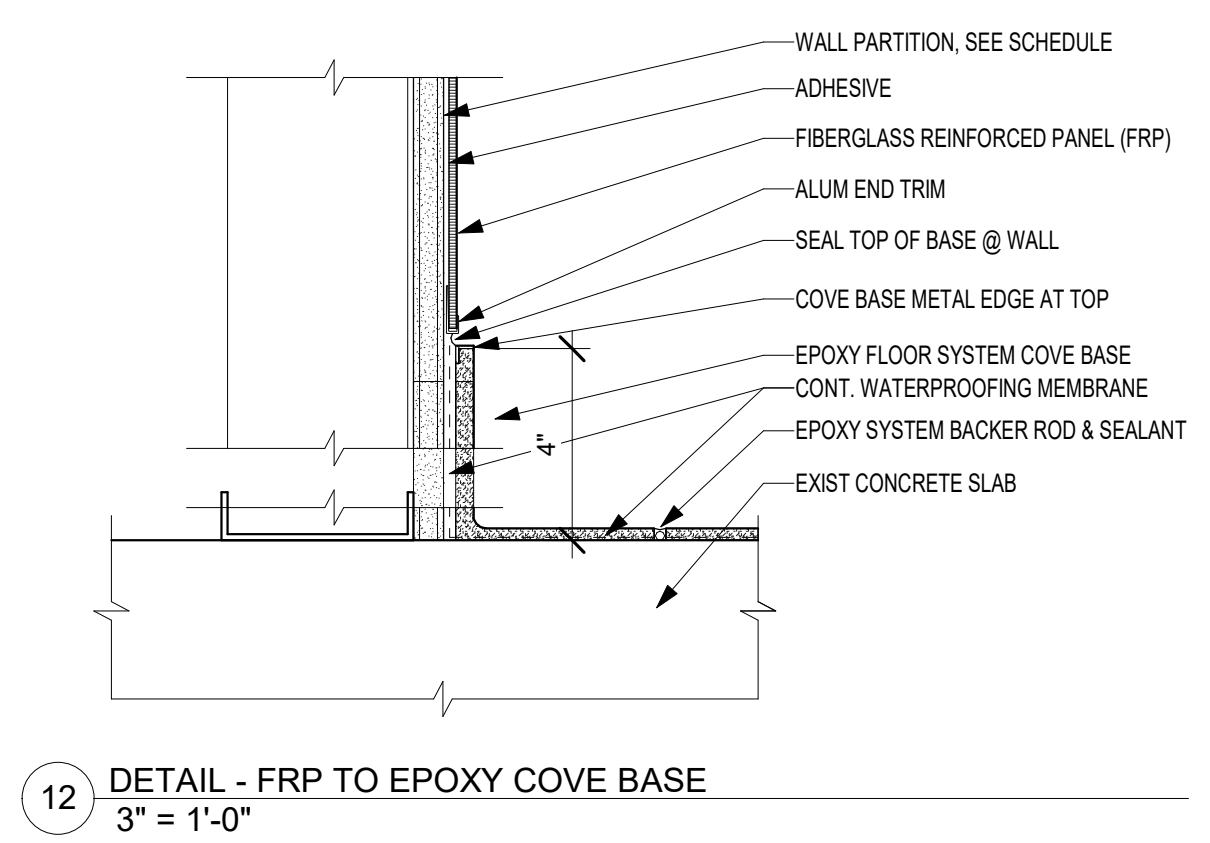
15 ADA RAILING @ STEEL COLUMN - ELEVATION
1" = 1'-0"



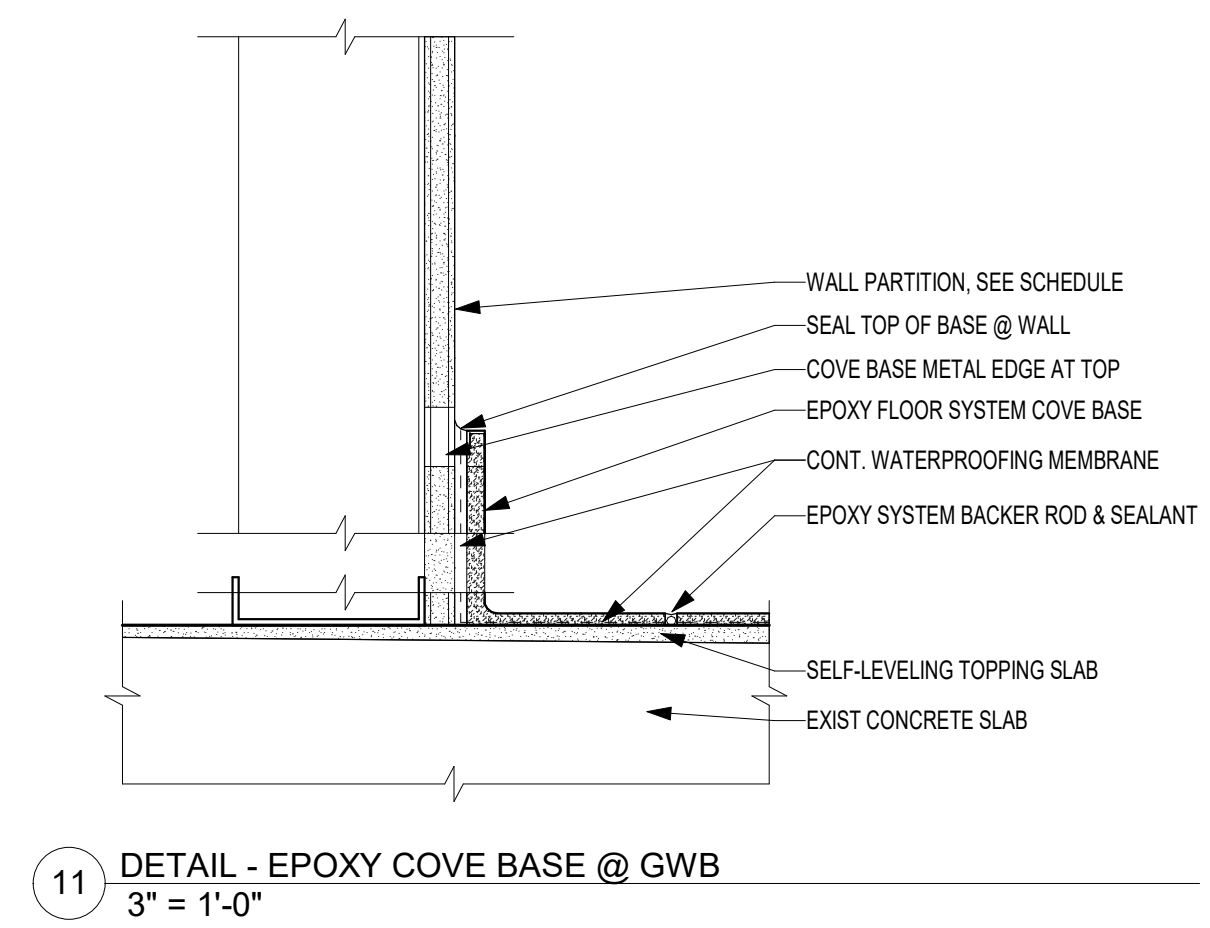
14 ADA RAILING @ STEEL COLUMN - PLAN
1" = 1'-0"



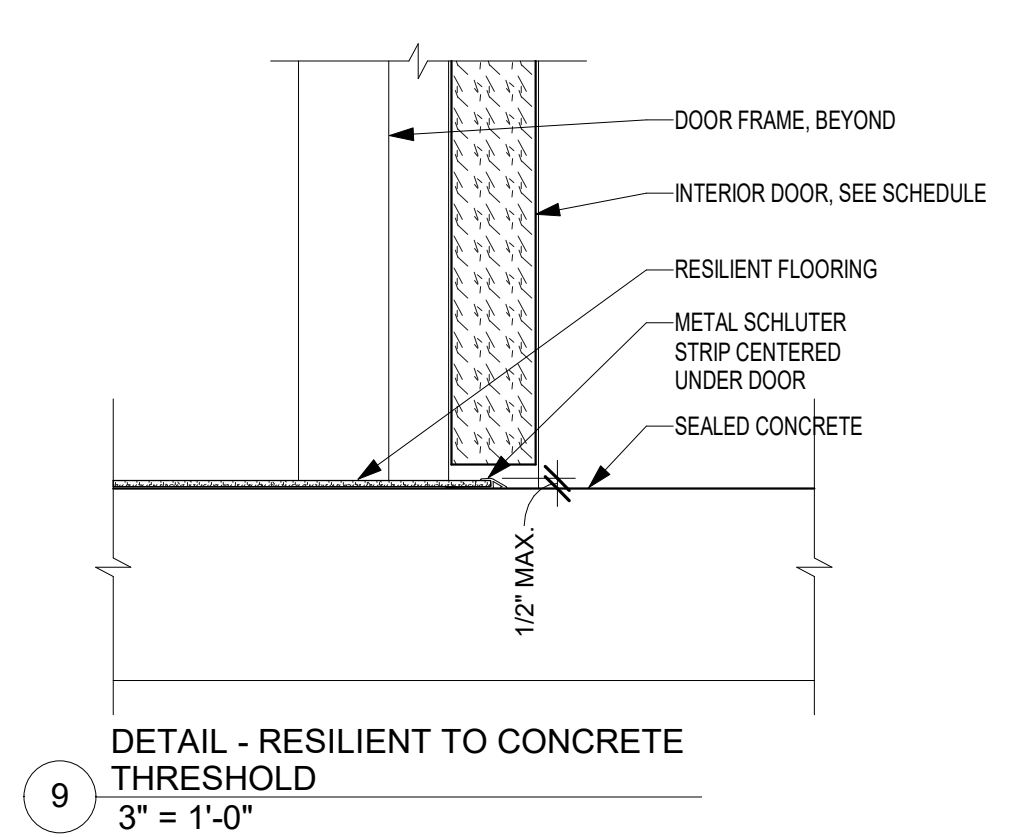
13 DETAIL - FRP PLAN
3" = 1'-0"



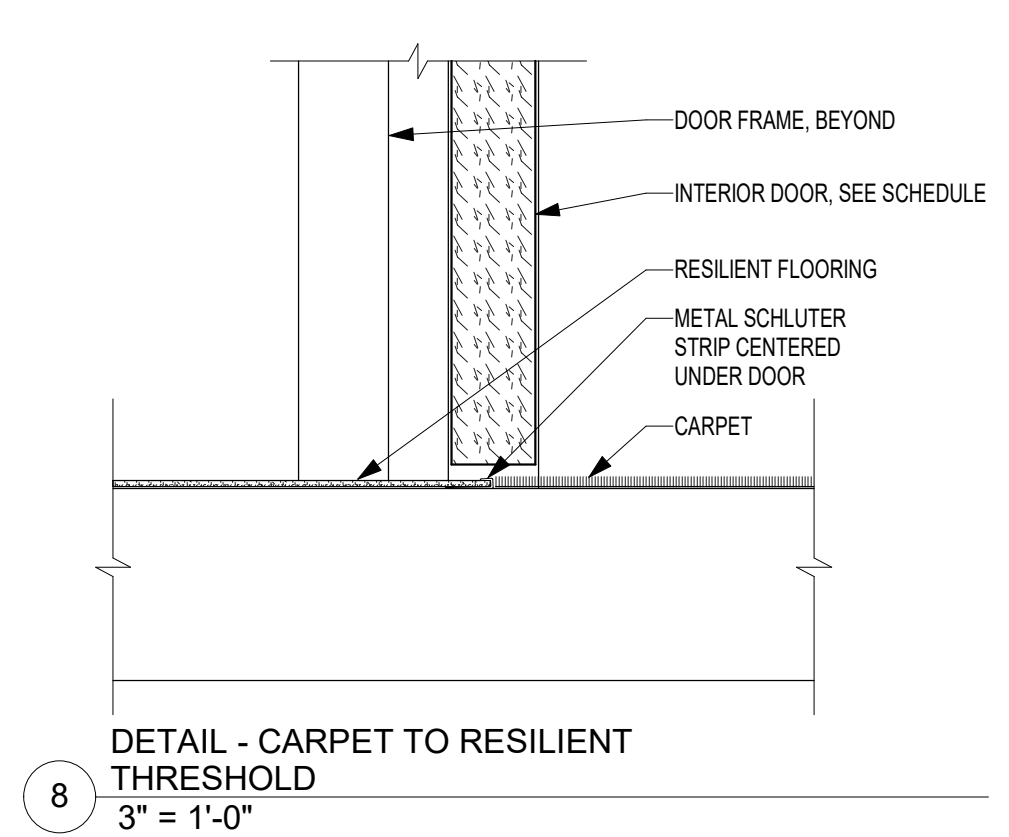
12 DETAIL - FRP TO EPOXY COVE BASE
3" = 1'-0"



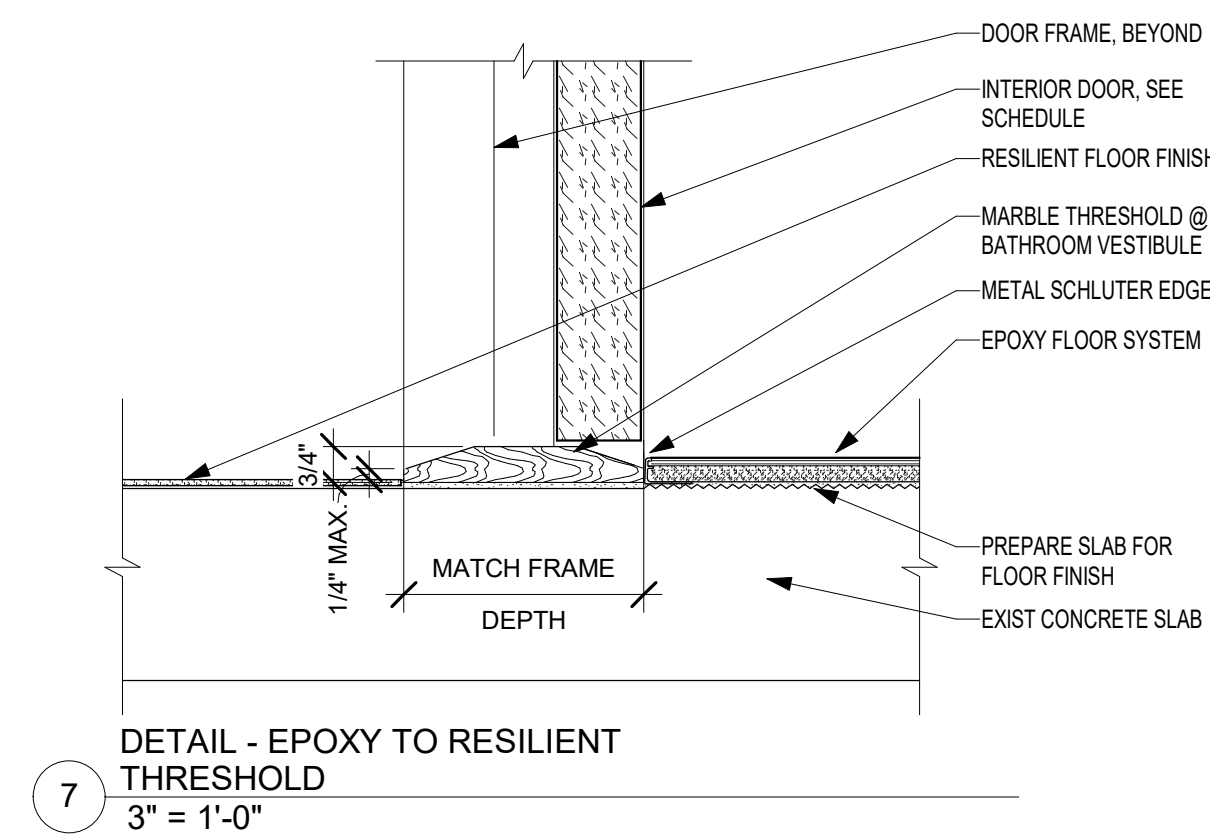
11 DETAIL - EPOXY COVE BASE @ GWB
3" = 1'-0"



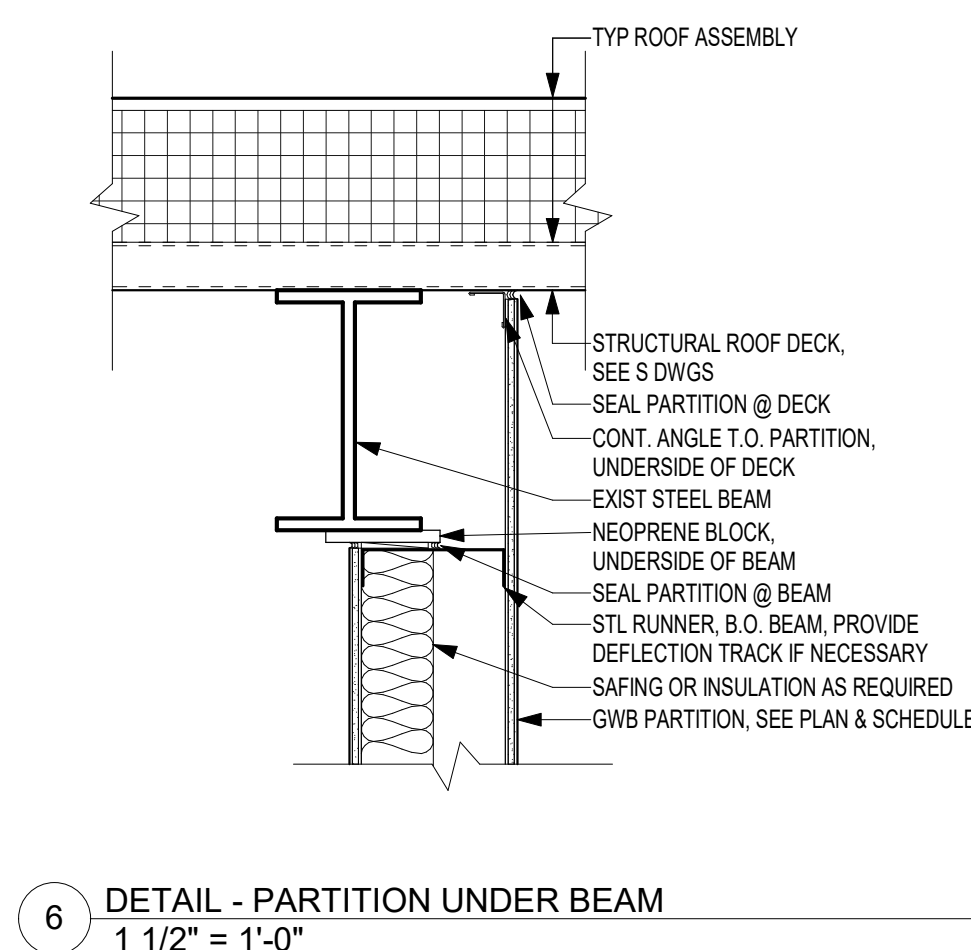
9 DETAIL - RESILIENT TO CONCRETE THRESHOLD
3" = 1'-0"



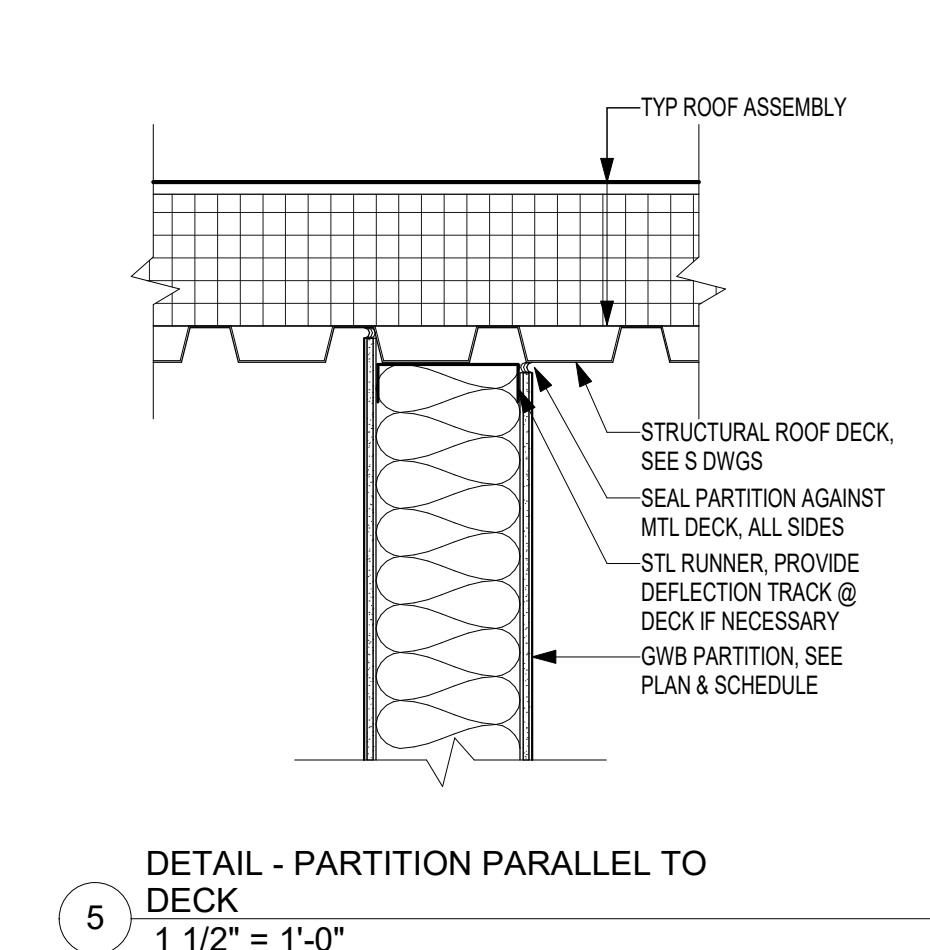
8 DETAIL - CARPET TO RESILIENT THRESHOLD
3" = 1'-0"



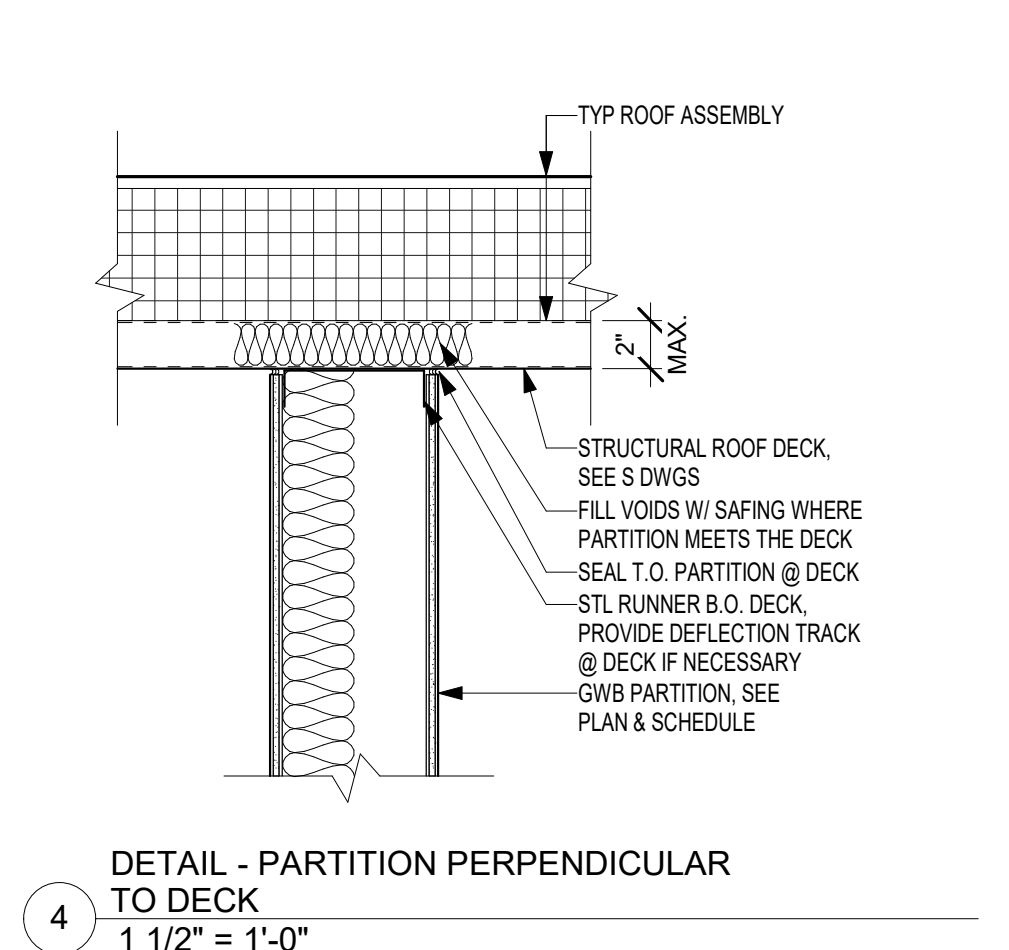
7 DETAIL - EPOXY TO RESILIENT THRESHOLD
3" = 1'-0"



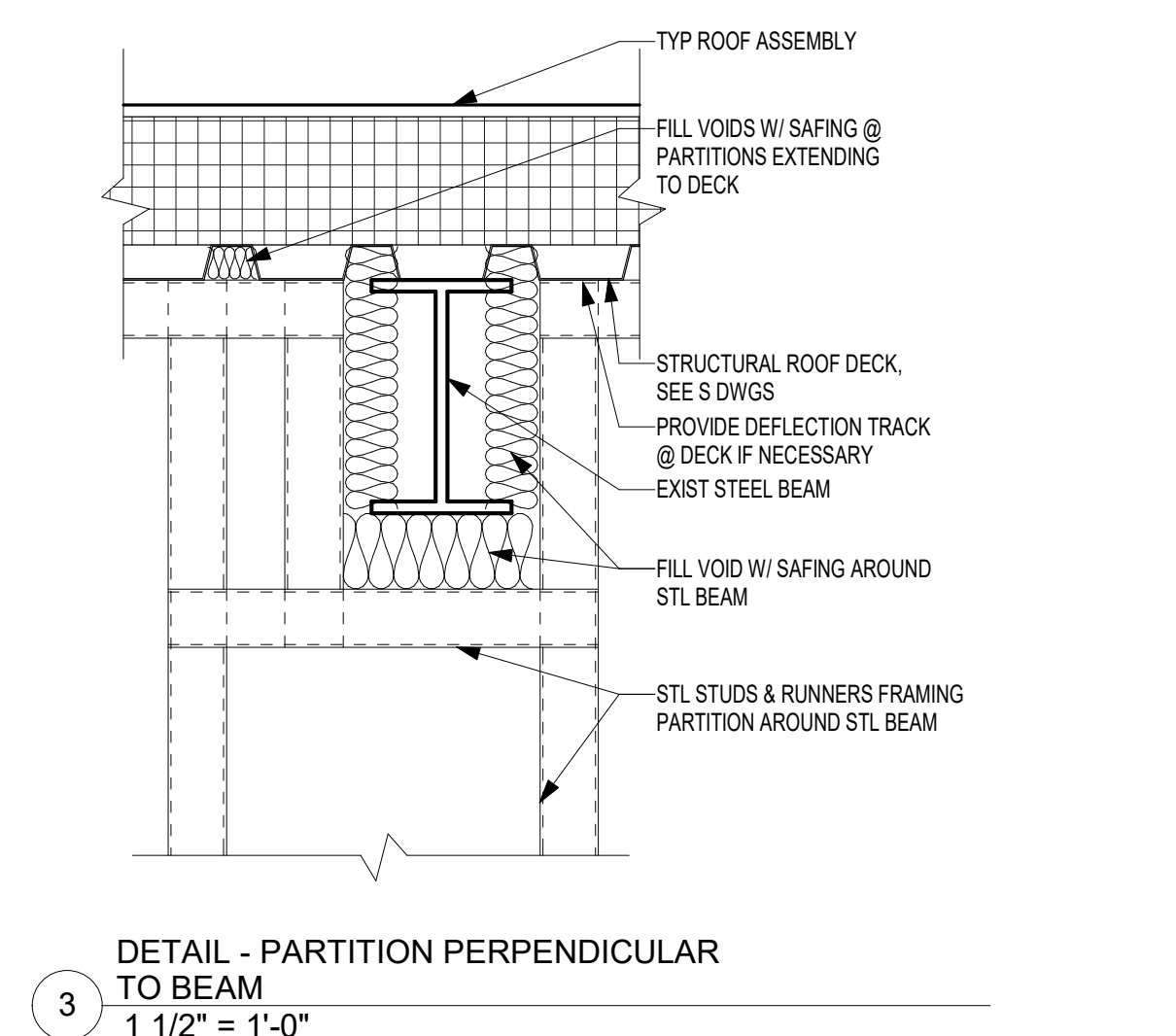
6 DETAIL - PARTITION UNDER BEAM
1 1/2" = 1'-0"



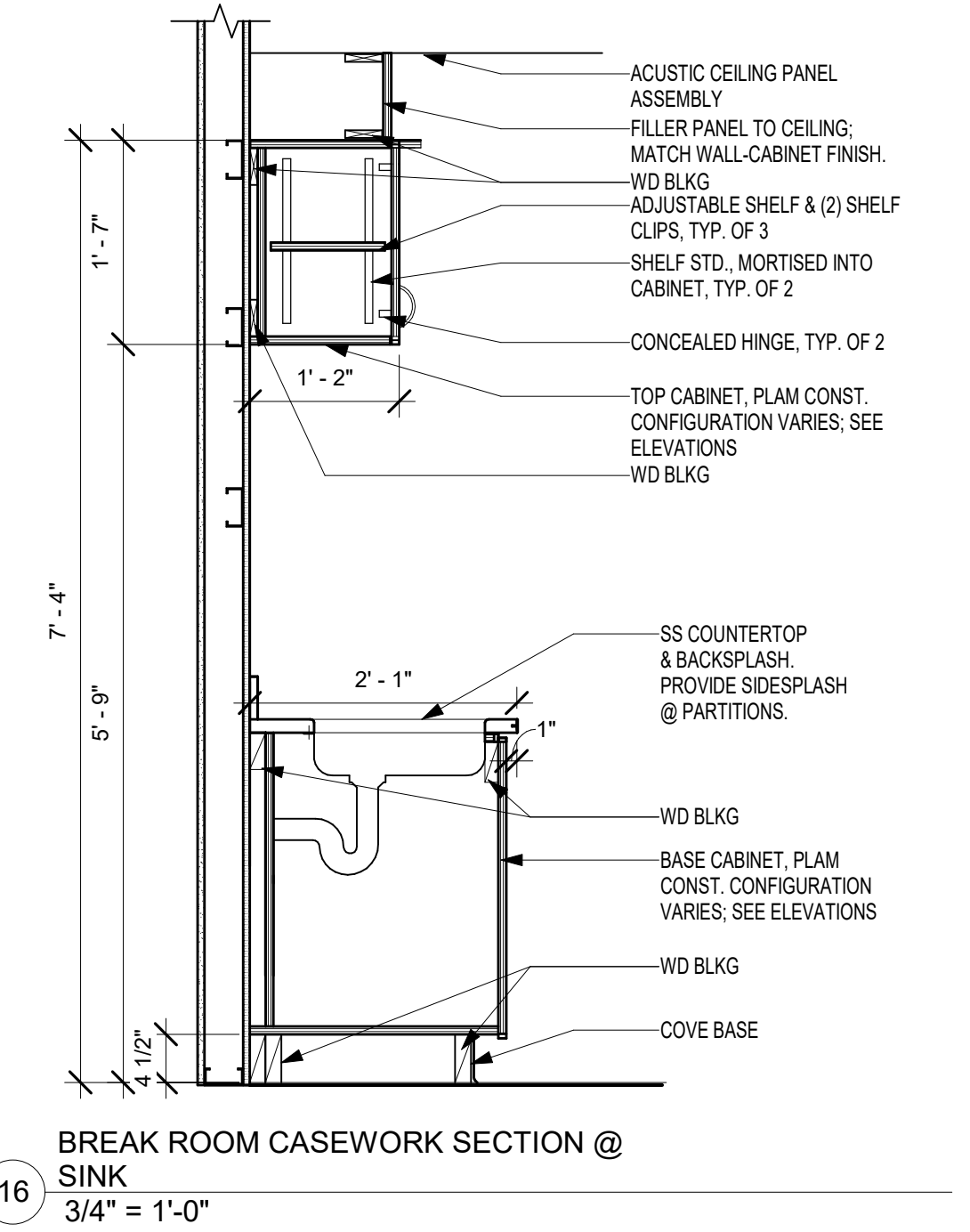
5 DETAIL - PARTITION PARALLEL TO DECK
1 1/2" = 1'-0"



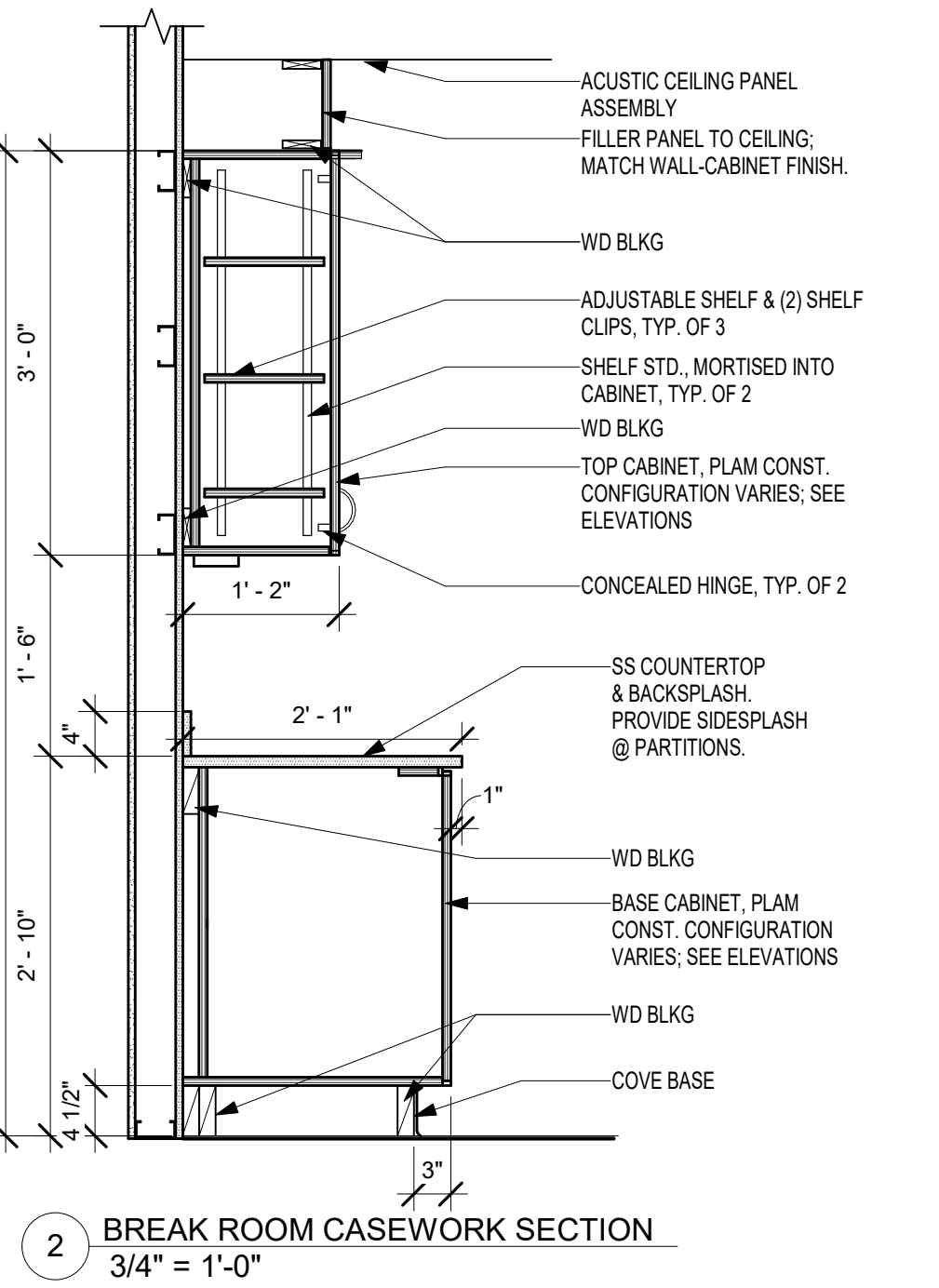
4 DETAIL - PARTITION PERPENDICULAR TO DECK
1 1/2" = 1'-0"



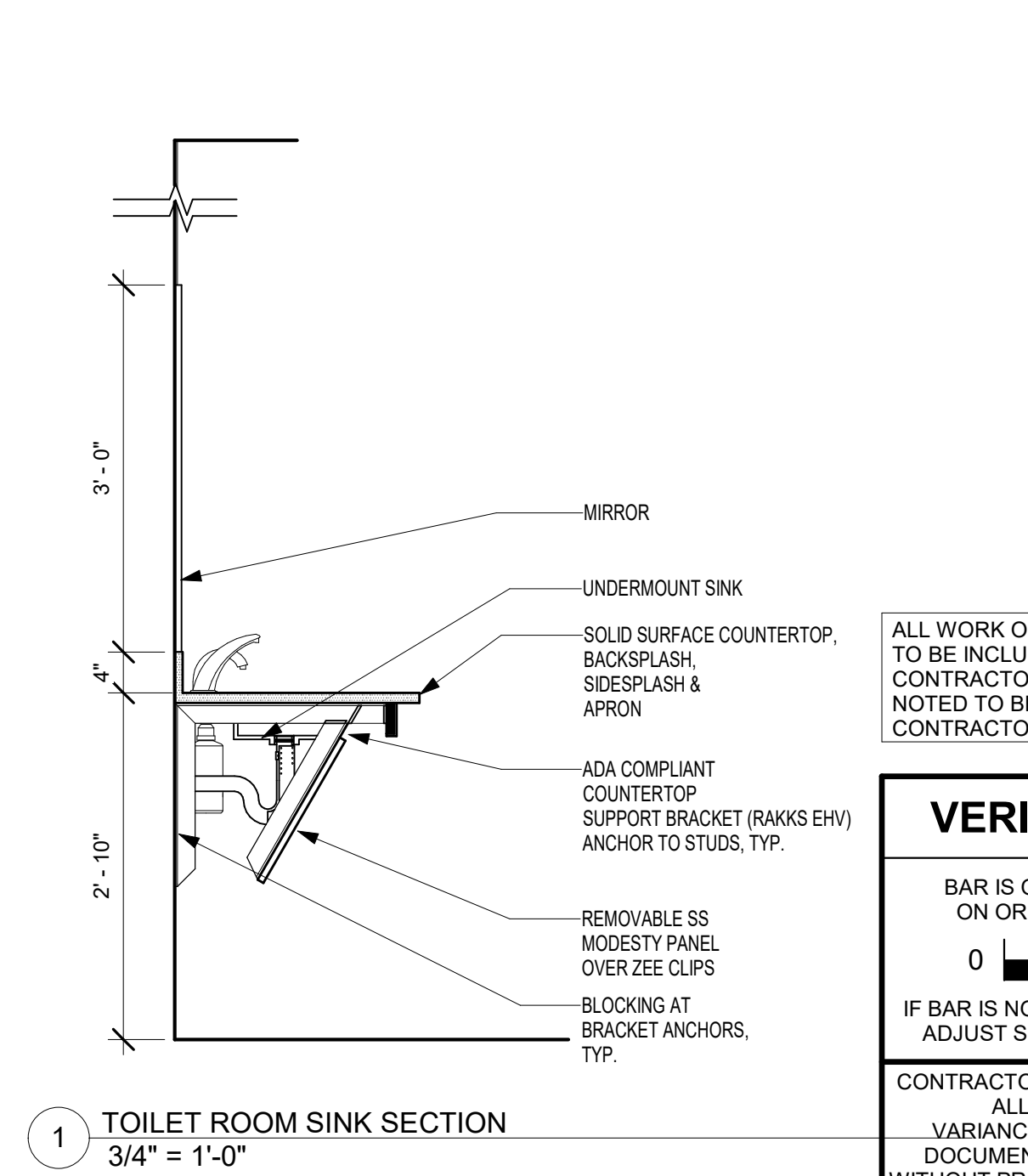
3 DETAIL - PARTITION PERPENDICULAR TO BEAM
1 1/2" = 1'-0"



16 BREAK ROOM CASEWORK SECTION @ SINK
3/4" = 1'-0"



2 BREAK ROOM CASEWORK SECTION
3/4" = 1'-0"



1 TOILET ROOM SINK SECTION
3/4" = 1'-0"

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

0 1

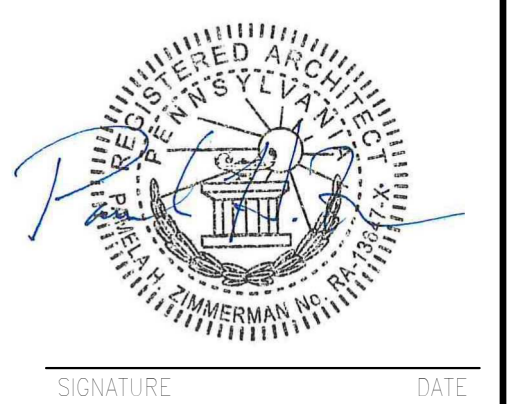
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

REV SET	08/28/2024	DESIGN DEVELOPMENT	01/28/2024
CONSTRUCTION DOCUMENTS	10/31/2024	REVISED	
CONSTRUCTION DOCUMENTS	04/15/2024		
DESIGN DEVELOPMENT - REVISED	02/27/2024		

RECORD - REVISIONS

Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No. DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

INTERIOR DETAILS

DRAWN BY	IB	DATE	08/26/2024	DRAWING No.	A-7.3
CHECKED BY	AK	SCALE	As Indicated		

LEGEND

	EXTENT OF DEMOLITION		FLEX DUCT
	POINT OF CONNECTION BETWEEN NEW WORK AND EXISTING WORK		DUCT BREAK/CONTINUATION
	EXISTING WORK TO REMAIN		UNION
	NEW WORK		REDUCER OR INCREASER
	EXISTING WORK TO BE DEMOLISHED		GATE VALVE
	DEMOLITION NOTE		BALL VALVE
	NEW WORK NOTE		CAPPED PIPE
	SUPPLY AIR DUCT UP (SECTION)		PIPE/DUCT DOWN
	SUPPLY AIR DUCT DOWN		PIPE/DUCT DOWN (45°)
	RETURN/EXHAUST AIR DUCT UP (SECTION)		BREAK IN PIPE/DUCT
	RETURN/EXHAUST AIR DUCT DOWN		PIPE/DUCT TAKE-OFF (BOTTOM)
	SUPPLY CEILING DIFFUSER/GRILLE (SIZE INDICATED ON SCHEDULE/DRAWING)		PIPE OR ROUND DUCT (UP/SECTION)
	RETURN/EXHAUST CEILING DIFFUSER/GRILLE (SIZE INDICATED ON SCHEDULE/DRAWING)		VOLUME DAMPER
	DUCT SILENCER		THERMOSTAT
	MOTORIZED DAMPER		GHW RE HEAT COIL

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	GHW	GLYCOL HOT WATER	OA	OUTSIDE AIR
AHU	AIR HANDLING UNIT	GHWR	GLYCOL HOT WATER RETURN	ODU	MS OUTDOOR UNIT
CL	CENTER LINE ELEVATION OF PIPE ABOVE FINISHED FLOOR	GHWS	GLYCOL HOT WATER SUPPLY	RA	RETURN AIR
CFM	CUBIC FEET PER MINUTE	HHW	HEATING HOT WATER	RAD	RADIATOR
CHW	CHILLED WATER	HHWR	HEATING HOT WATER RETURN	RAR	RETURN AIR REGISTER
CHWR	CHILLED WATER RETURN	HHWS	HEATING HOT WATER SUPPLY	RG	RETURN AIR GRILLE
CHWS	CHILLED WATER SUPPLY	HPC	HIGH PRESSURE STEAM CONDENSATE	RHC	REHEAT COIL
COND	CONDENSATE	HPS	HIGH PRESSURE STEAM	RHW	REHEAT HOT WATER
CONV.	CONVECTOR	IDU	MS INDOOR UNIT	RHWR	REHEAT HOT WATER RETURN
CV	CONTROL VALVE	IW	INDIRECT WASTE	RHWS	REHEAT HOT WATER SUPPLY
DN.	DOWN	LPC	LOW PRESSURE STEAM CONDENSATE	RTU	ROOFTOP UNIT
EA	EXHAUST AIR	LPS	LOW PRESSURE STEAM	S	ROOM TEMPERATURE SENSOR
EL	ELEVATION	MFG	MANUFACTURER	SA	SUPPLY AIR
(E)	EXISTING	MAX.	MAXIMUM	SAD	SUPPLY AIR DIFFUSER
E.C.	ELECTRICAL CONTRACTOR	M.C.	MECHANICAL CONTRACTOR	SF	SUPPLY AIR FAN
EF	EXHAUST FAN	MIN.	MINIMUM	SR	SUPPLY AIR REGISTER
ED	EXHAUST AIR DIFFUSER	MOD	MOTOR OPERATED DAMPER	SG	SUPPLY AIR GRILLE
EG	EXHAUST AIR GRILLE	MPC	MEDIUM PRESSURE STEAM CONDENSATE	SDA	SOUND ATTENUATOR
ERV	ENERGY RECOVERY VENTILATOR	MPS	MEDIUM PRESSURE STEAM	T	THERMOSTAT
FA	FRESH AIR	MS	MINI-SPLIT SYSTEM	TG	TRANSFER GRILLE
FCU	FAN COIL UNIT	MSSG	MAXIMUM SECURITY SUPPLY GRILLE	TS	TEMPERATURE SENSOR
FOB	FLAT ON BOTTOM	MSRG	MAXIMUM SECURITY RETURN GRILLE	TYP.	TYPICAL
FOT	FLAT ON TOP	NG	NATURAL GAS	UH	UNIT HEATER
FTR	FIN TUBE RADIATOR	N.C.	NORMALLY CLOSED	VAV	VARIABLE AIR VOLUME
		N.O.	NORMALLY OPEN	VLV	VALVE

GENERAL MECHANICAL PROJECT NOTES:

- CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE PRIOR TO DOING ANY WORK AFFECTING ANY OPERATIONS WITHIN THE BUILDING.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEMOLISHED MATERIALS, EQUIPMENT, AND CONSTRUCTION DEBRIS FROM SITE COMPLETELY. NO DEMOLISHED MATERIALS, EQUIPMENT AND CONSTRUCTION DEBRIS SHALL BE STORED ON SITE.
- BEFORE LEAVING THE SITE AT ANYTIME THE CONTRACTOR SHALL ENSURE CONSTRUCTION AREA IS SECURE, ALL MATERIALS AND EQUIPMENT ARE STORED SO NOT TO CREATE A HAZARD, AND ALL CONSTRUCTION DEBRIS IS CLEANED UP. THE CONSTRUCTION AREA SHALL BE SWEEP DAILY.
- CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE TO DETERMINE APPROVED LOCATIONS FOR NEW EQUIPMENT AND MATERIAL LAY-DOWN AREAS PRIOR TO SUBMITTING THEIR BID.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION.
- ALL DRAWINGS ARE DIAGRAMMATIC AND ARE FOR CONTRACTOR'S REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, EQUIPMENT CONNECTION SIZES, AND EXISTING FIELD CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL SHUTDOWNS REQUIRED TO COMPLETE WORK WITH OWNER. CONTRACTOR SHALL NOT BEGIN WORK UNTIL SCHEDULE IS APPROVED BY OWNER. CONTRACTOR TO ALLOW 2 WEEKS FOR SHUTDOWN COORDINATION.
- CONTRACTOR SHALL REFER TO PLANS, SCHEDULES, DETAILS, DIAGRAMS AND SPECIFICATIONS FOR PROJECT INFORMATION AND REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE ALL PIPING TIGHT TO UNDERSIDE OF BUILDING STRUCTURE. WHERE EXISTING UTILITIES PREVENT SUCH INSTALLATION, THE CONTRACTOR SHALL OFFSET NEW PIPING AROUND EXISTING UTILITY AND PROVIDE PIPING IMMEDIATELY BELOW SUCH EXISTING UTILITY.
- CONTRACTOR SHALL PROVIDE ALL VALVES WITH STEM EXTENSIONS TO ACCOMMODATE FOR THE INSULATION THICKNESS SPECIFIED.
- CONTRACTOR SHALL PROVIDE ALL DAMPER HAND QUADRANTS AND OPERATORS WITH STANDOFFS TO ACCOMMODATE FOR THE INSULATION THICKNESS SPECIFIED.
- CONTRACTOR IS RESPONSIBLE FOR AREA PROTECTION FOR ALL FURNITURE, FLOORS, WALLS, CEILINGS, DOORS, GLASS, AND ALL OTHER ARCHITECTURAL/AESTHETIC ITEMS AS REQUIRED TO FULFILL THE SCOPE OF WORK OUTLINED HEREIN. WHERE ANY DAMAGE OCCURS, THE CONTRACTOR SHALL REPLACE IN KIND AT THEIR OWN COSTS.

GENERAL MECHANICAL DEMOLITION NOTES:

- CONTRACTOR SHALL ASSESS EXISTING EQUIPMENT, DUCTING LAYOUT, PIPING LAYOUT, CONTROLS, CONDUITS, SUPPORTS, AND ALL THE WORK INVOLVED TO DEMOLISH EXISTING EQUIPMENT, DUCTING, AND PIPING TO THE EXTENT AS REQUIRED AND SHOWN ON PLANS.
- EXISTING DUCTWORK AND PIPING SHOWN TO BE DEMOLISHED SHALL BE DEMOLISHED AS SHOWN ON THE FLOOR PLANS, OR AS REQUIRED TO DEMOLISH EXISTING EQUIPMENT AND/OR INSTALL NEW EQUIPMENT, DUCTWORK, AND PIPING. ALL DEMOLISHED BRANCH PIPING SHALL BE DEMOLISHED BACK TO THE EXISTING TO REMAIN SYSTEM TO PREVENT ANY DEAD LEGS IN THE SYSTEM.
- ALL EQUIPMENT AND DEVICES CALLED TO BE DEMOLISHED SHALL BE COORDINATED WITH OWNER TO CONFIRM IF THEY WILL REQUIRE THESE ITEMS TO BE SALVAGED, IF THE CONTR. IS NOT DIRECTED TO SALVAGE SAID ITEMS THEY SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OFF-SITE.
- THE CONTRACTOR SHALL PERFORM PENETRATING SCANS OF ALL CONCRETE WALL/FLOOR/CEILING PENETRATIONS AND REPORT THE FINDINGS TO THE OWNER AND DESIGN TEAM PRIOR TO ANY DEMOLITION COMMENCING.

GENERAL MECHANICAL NEW WORK NOTES:

- THE CONTRACTOR SHALL PROVIDE IDENTIFICATION FOR ALL NEW EQUIPMENT PIPING, DUCT AND CONTROL DEVICES TO MATCH EXISTING TYPE, LOCATION, AND SIZE. WHERE THERE ARE NO EXISTING TYPES TO MATCH, PROVIDE IDENTIFICATION PER SPEC'S.
- ALL EXISTING WALL/FLOOR/ROOF PENETRATIONS WHERE DEMOLISHED DUCTWORK OR PIPING PASSED THROUGH AND NEW DUCTWORK OR PIPING IS NOT TO BE INSTALLED IN THE SAME LOCATION, SHALL BE INFILLED BY CONSTRUCTION MATCHING THE EXISTING AND IN A MANNER AS TO MAINTAIN ALL EXISTING AND NEW FIRE/SMOKE RATINGS AND WARRANTIES.
- ALL SERVICES WHICH WERE DEMOLISHED AND CAPPED, SHALL BE CAPPED USING THE SAME MATERIALS AND INSTALLATION METHODS OF EACH SYSTEM INSTALLED. ALL INSULATION SHALL BE MADE WHOLE WITH MATERIALS MATCHING THE EXISTING, IN A NEAT AND ORDERLY FASHION WITH ALL JOINTS SEALED.

BID SET	08/26/2024	DESIGN DEVELOPMENT	01/26/2024
CONSTRUCTION DOCUMENTS	07/31/2024	REVISED	
CONSTRUCTION DOCUMENTS	04/15/2024		
DESIGN DEVELOPMENT-REVISED	02/27/2024		

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

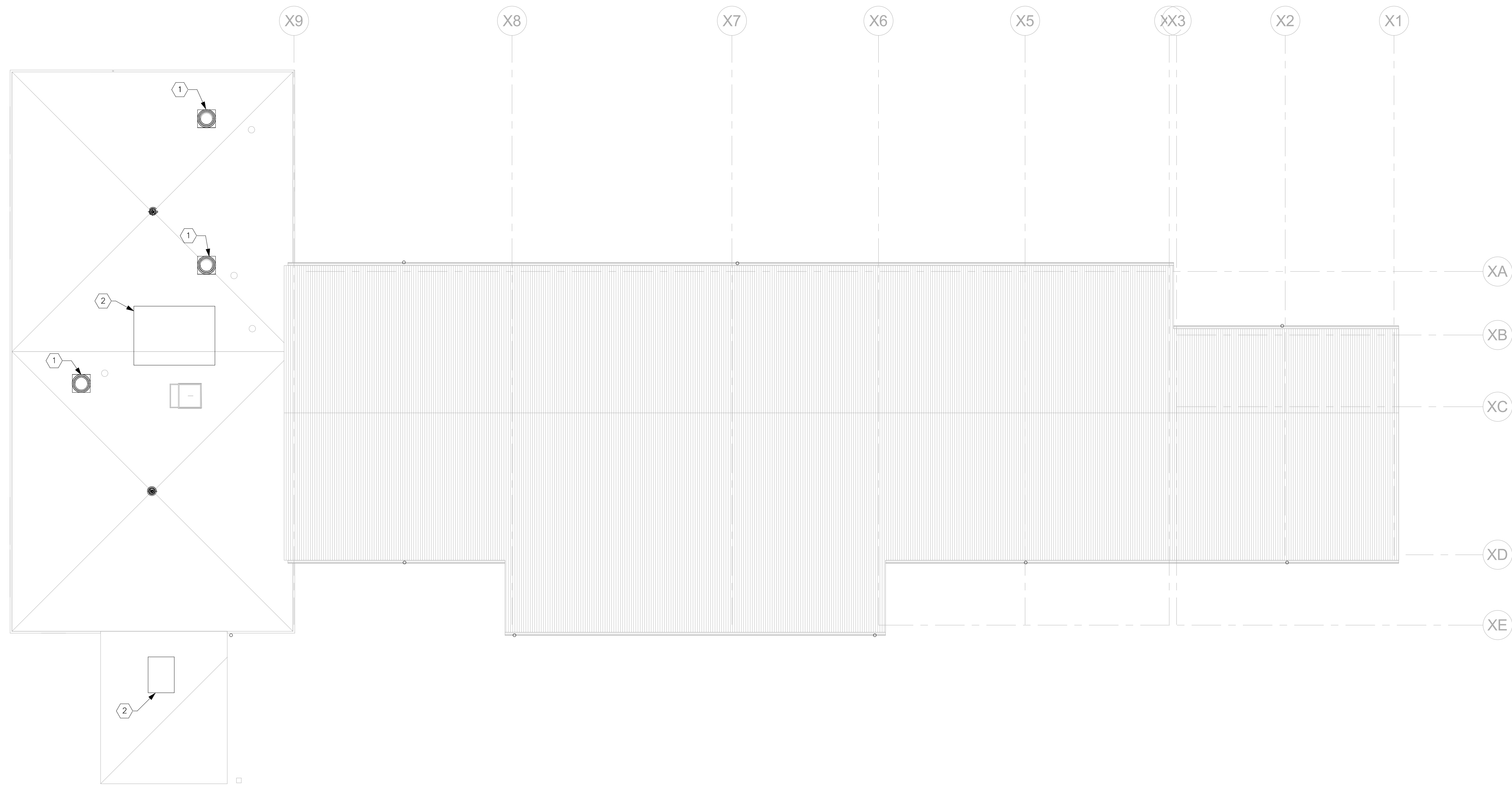
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

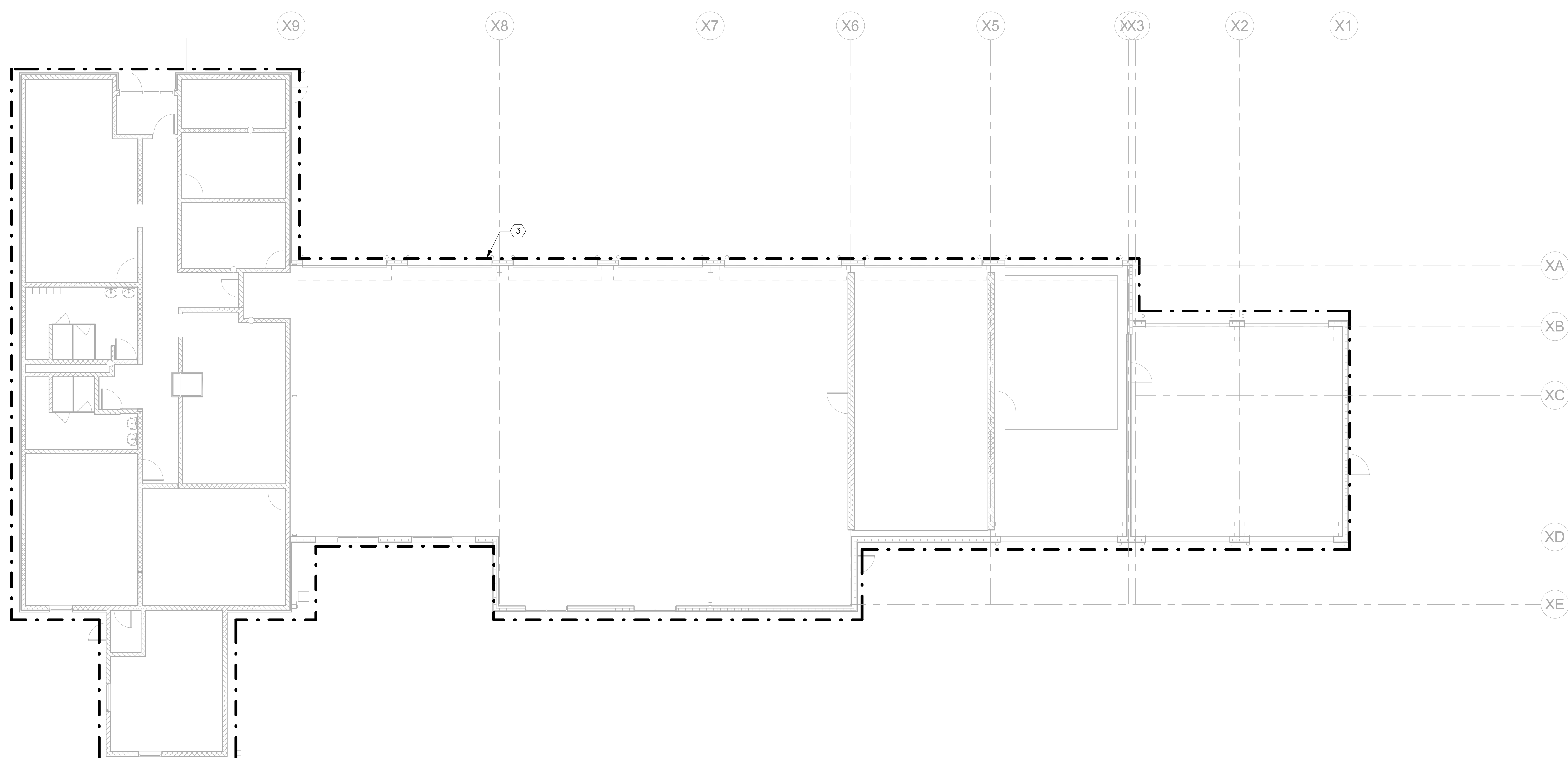
LEGENDS AND ABBREVIATIONS

VERIFY SCALE			
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.	0	1	
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY			
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY J. LUTCHENDORF	DATE 08/26/2024	DRAWING No. H-000
	CHECKED BY J. LUTCHENDORF	SCALE AS NOTED	



- DEMOLITION NOTES:**
- ① DEMOLISH EXISTING EF AND ALL ASSOCIATED DUCTWORK, ROOF CURBS, ELECTRICAL AND ALL ANCILLARY DEVICES.
 - ② DEMOLISH EXISTING RTU AND ALL ASSOCIATED DUCTWORK, PIPING, ROOF CURBS, ELECTRICAL AND ALL ANCILLARY DEVICES.
 - ③ ALL MECHANICAL DEVICES WITHIN THIS AREA ARE TO BE DEMOLISHED IN THEIR ENTIRETY. THIS TO INCLUDE BY NOT LIMITED TO BUCKWORK, AIR DEVICES, MECHANICAL EQUIPMENT CONTROLS, WIRING, AND ADDITIONAL APPARATUS.

① Mechanical Roof Plan Demolition
1/8" = 1'-0"



② Mechanical Floor Plan Demolition
1/8" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
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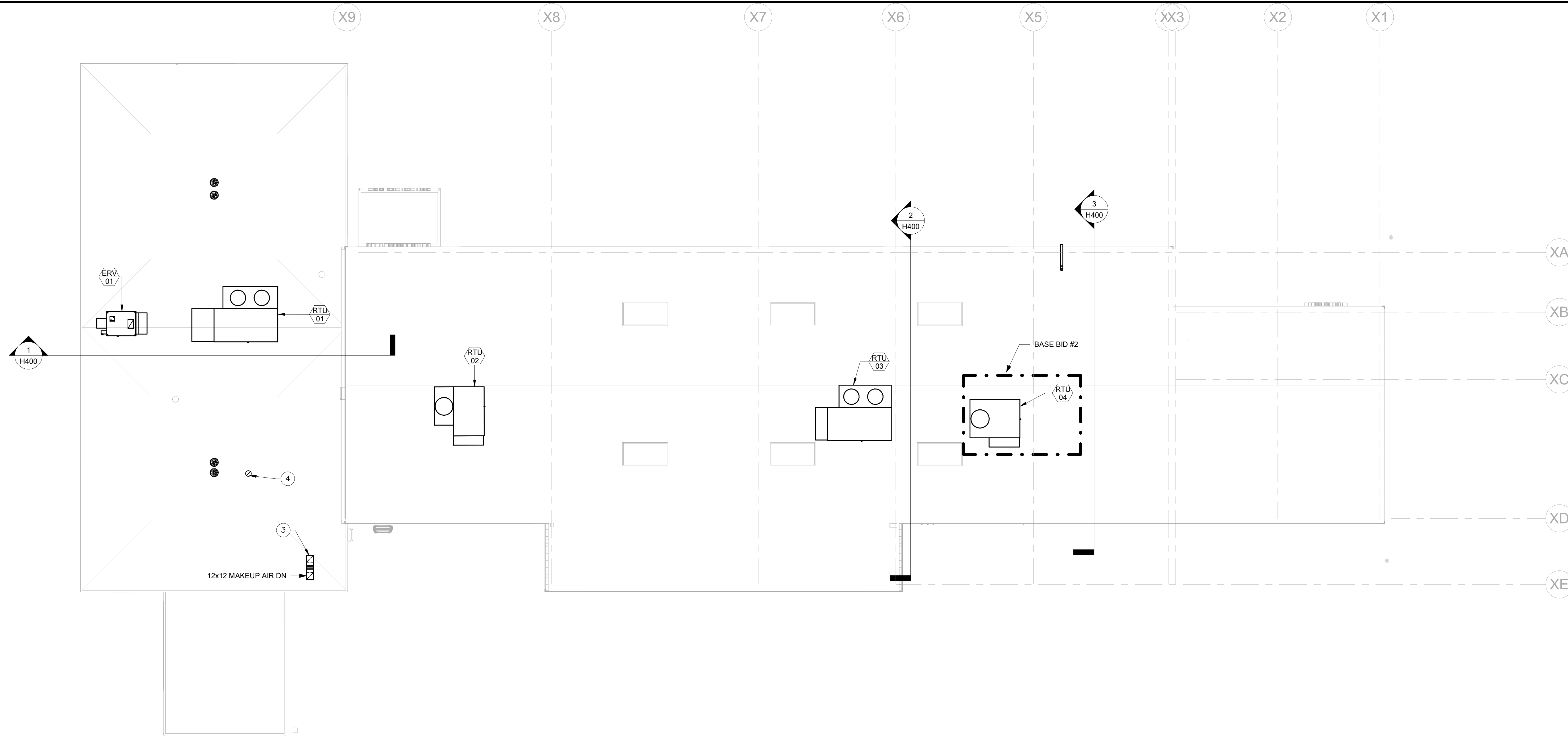
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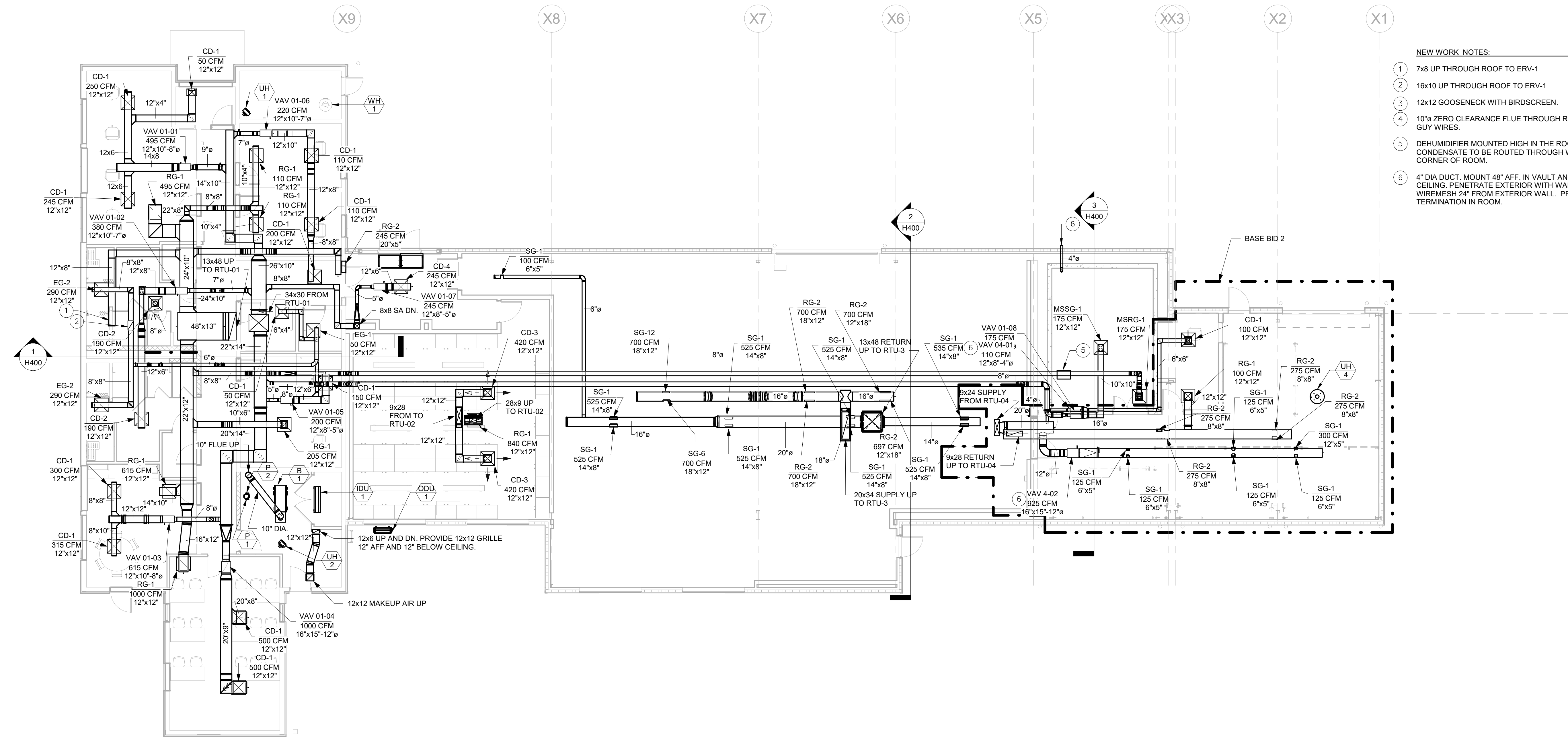
MECHANICAL DEMOLITION PLANS

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CHECKED BY JBL	SCALE	HD-100



1 Mechanical Roof Plan New Work
1/8" = 1'-0"



2 Mechanical Floor Plan New Work
1/8" = 1'-0"

NEW WORK NOTES:

- 1 7x8 UP THROUGH ROOF TO ERV-1
- 2 16x10 UP THROUGH ROOF TO ERV-1
- 3 12x12 GOOSENECK WITH BIRDSCREEN.
- 4 10"ø ZERO CLEARANCE FLUE THROUGH ROOF TERMINATE 4'-0" ABV. ROOF. W/ GUY WIRES.
- 5 DEHUMIDIFIER MOUNTED HIGH IN THE ROOM HUNG FROM UNISTRUT. 3/4" CONDENSATE TO BE ROUTED THROUGH WALL TO INDIRECT DRAIN AT CORNER OF ROOM.
- 6 4" DIA DUCT MOUNT 48" AFF. IN VAULT AND RUN UP WALL OF VAULT TO CEILING. PENETRATE EXTERIOR WITH WALL CAP A MIN OF 10' A.F.G. PROVIDE WIREMESH 24" FROM EXTERIOR WALL. PROVIDE ISOLATION DAMPER AT TERMINATION IN ROOM.

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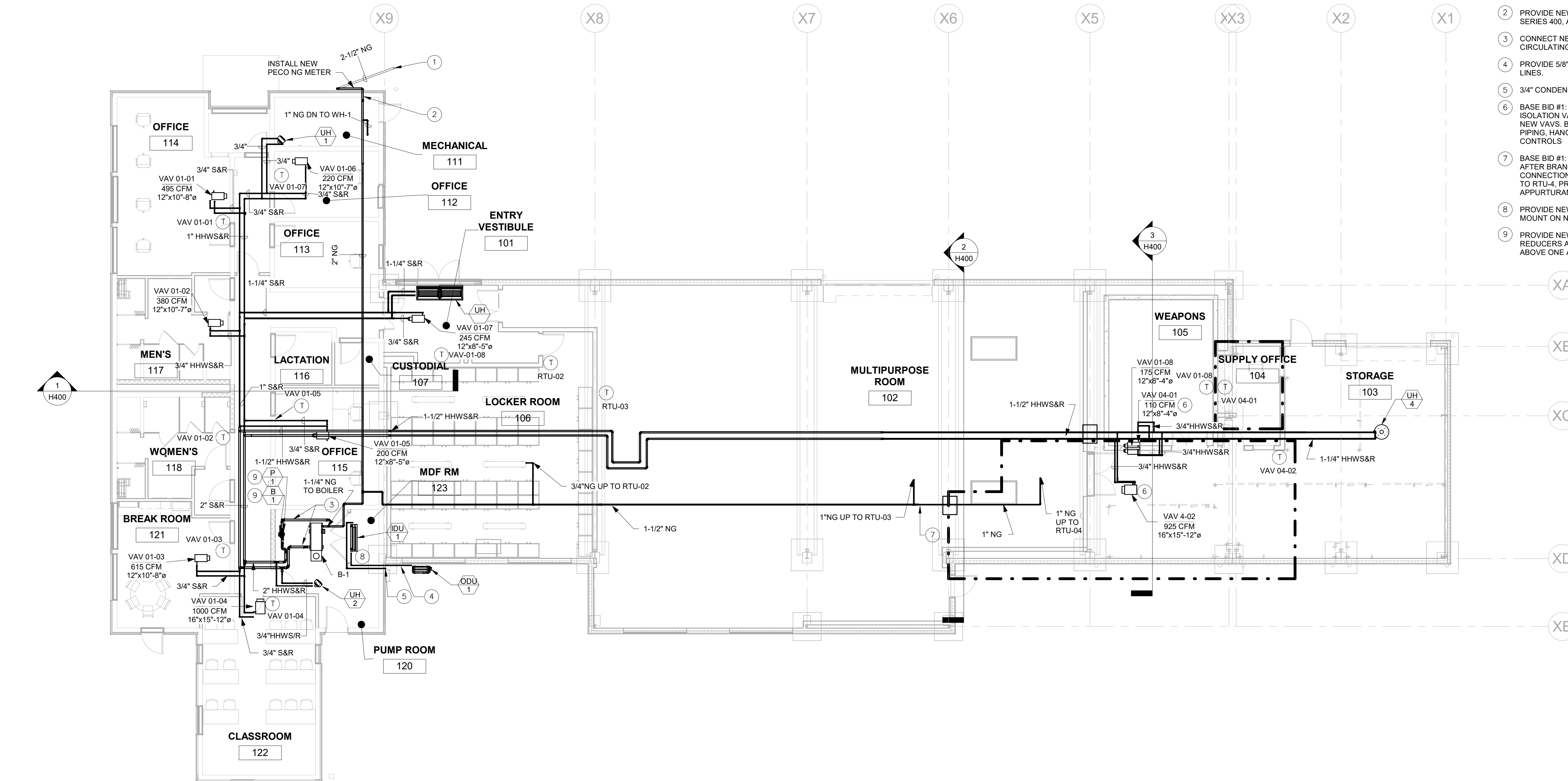
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BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

MECHANICAL NEW WORK PLANS

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CHECKED BY JBL	SCALE	



- NEW WORK NOTES:**
- 2-1/2" NG UNDERGROUND TO CONNECTION TO EXISTING PECO NG MAIN. REFER TO SITE PLANS.
 - PROVIDE NEW BUILDING NG METER, VALUMASS FLOWMETER SERIES 400, AND TIE INTO NEW BAS.
 - CONNECT NEW 2" HHWS&R PIPING TO NEW BOILER B-1 AND CIRCULATING PUMPS
 - PROVIDE 5/8" LIQUID AND 1/2" SUCTION REFRIGERATION LINES.
 - 3/4" CONDENSATE DOWN TO 18" ABOVE GRADE.
 - BASE BID #1: PROVIDE HHWS&R BRANCH PIPING AND ISOLATION VALVES WITH CAPS FOR FUTURE EXTENSION TO NEW VAVS. BASE BID #2: PROVIDE NEW VAV, BRANCH PIPING, HANGERS, THERMOSTATS, AND ALL ASSOCIATED CONTROLS
 - BASE BID #1: NG PIPING IS TO BE TRANSITIONED TO 1". AFTER BRANCH TO RTU-3, AND CAPPED FOR FUTURE CONNECTION. BASE BID #2: EXTEND 1" NG BRANCH PIPING TO RTU-4, PROVIDING ALL HANGERS AND ASSOCIATED APPURTURANCES.
 - PROVIDE NEW BOILER B-1 AND ALL ANCILLARY DEVICES. MOUNT ON NEW 4" HIGH HOUSEKEEPING PAD.
 - PROVIDE NEW INLINE PUMPS, INCLUDE HANGERS, REDUCERS AND ALL ANCILLARY DEVICES. INSTALL UNITS ABOVE ONE ANOTHER ON NEW HOUSEKEEPING PAD.

① Mechanical Floor Piping Plan New Work
1/8" = 1'-0"

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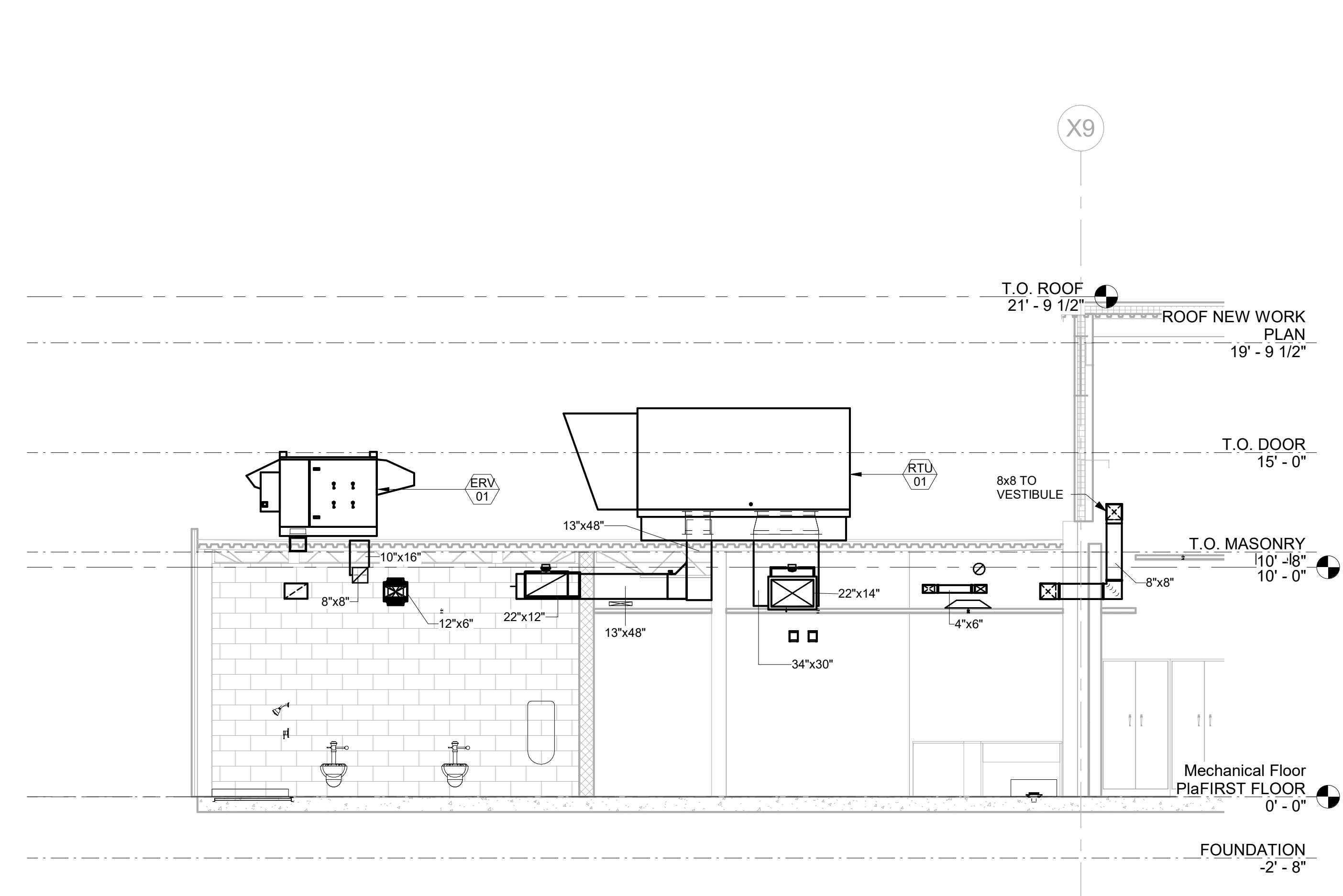
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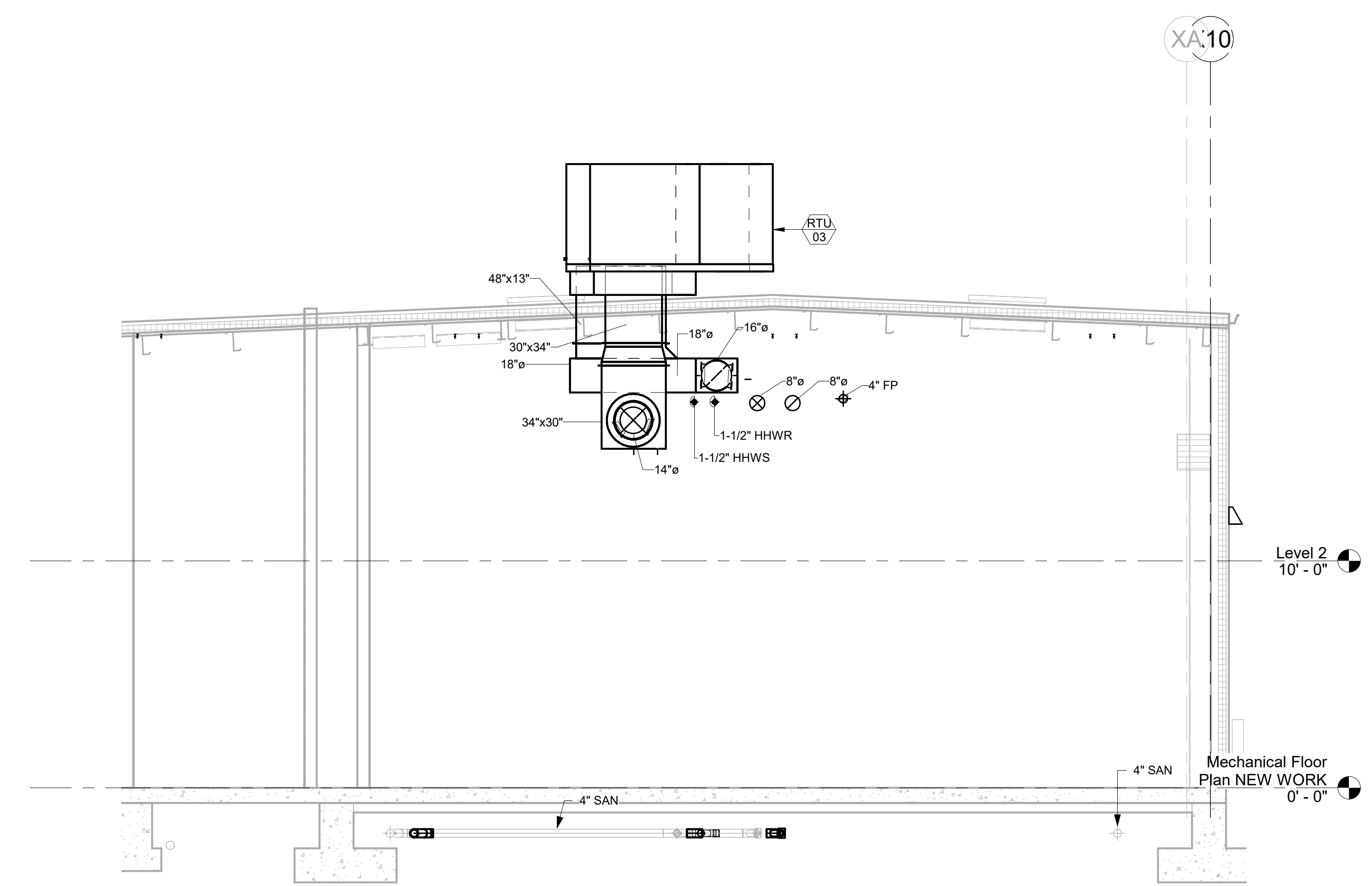
MECHANICAL PIPING NEW WORK

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0 1
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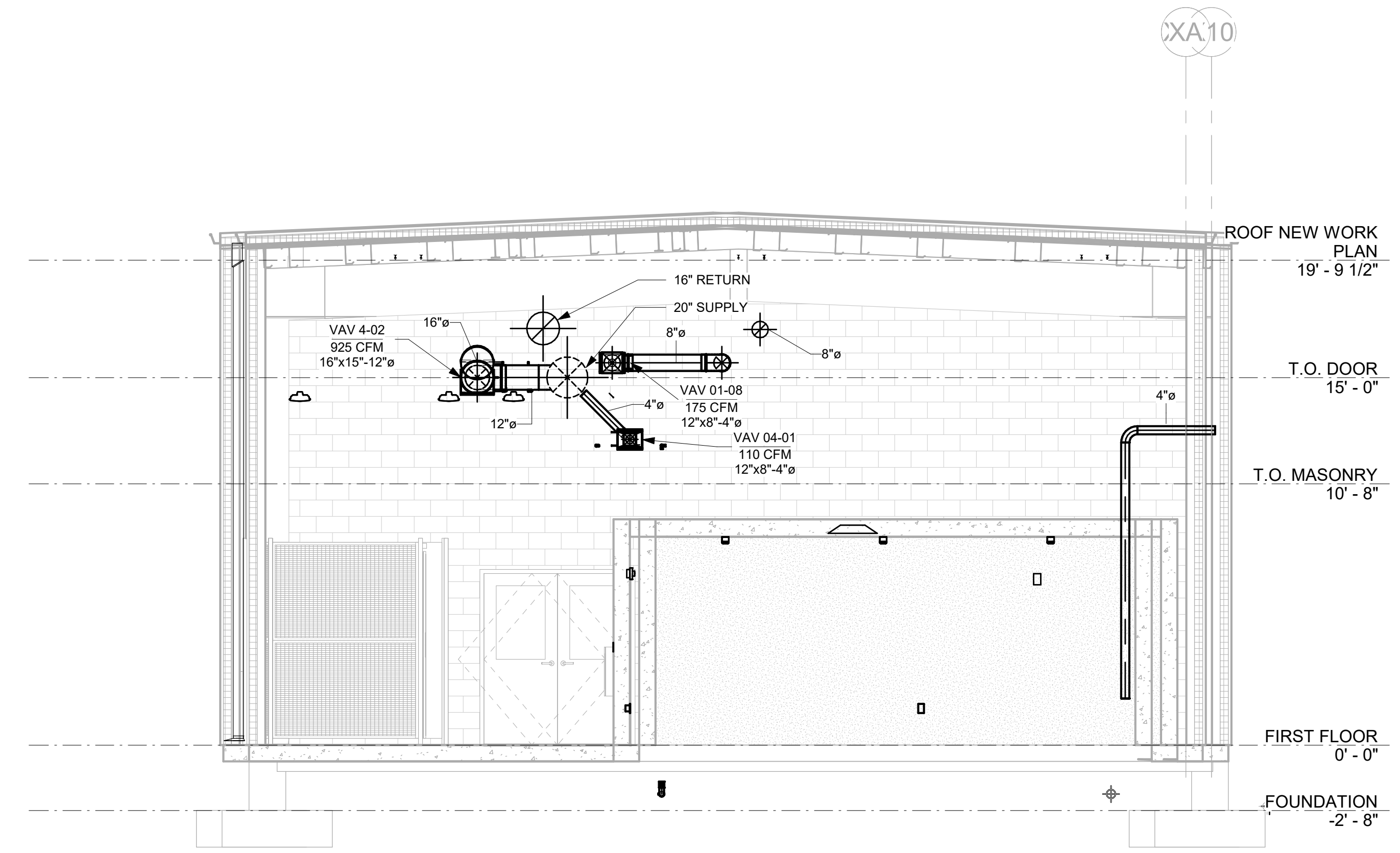
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CHECKED BY JBL	SCALE	



1 AHU-01 SECTION
1/4" = 1'-0"



2 AHU-03 SECTION
1/4" = 1'-0"



3 AHU-04 SECTION
1/4" = 1'-0"

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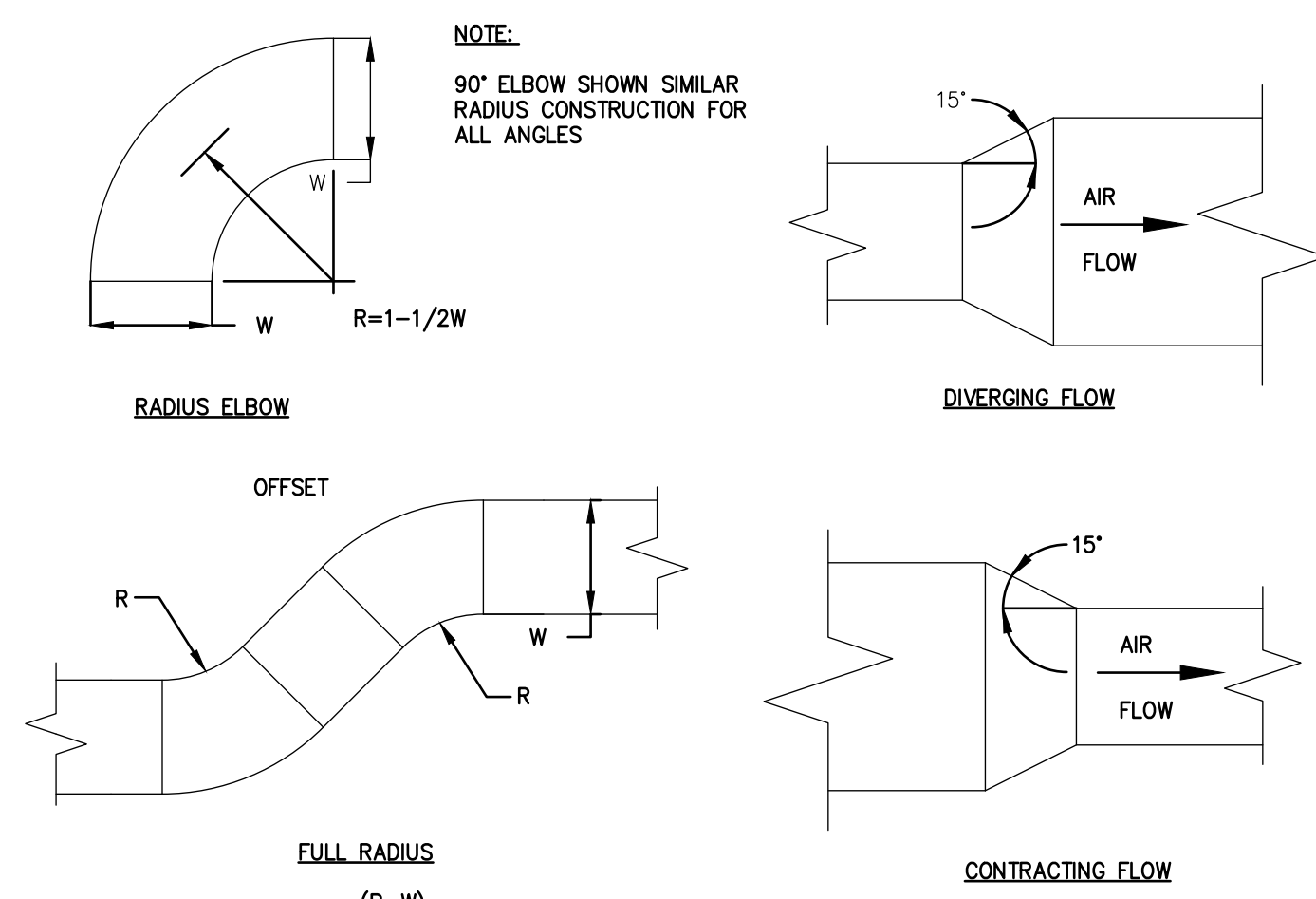
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BUILDING 237 RENOVATION
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MECHANICAL SECTIONS

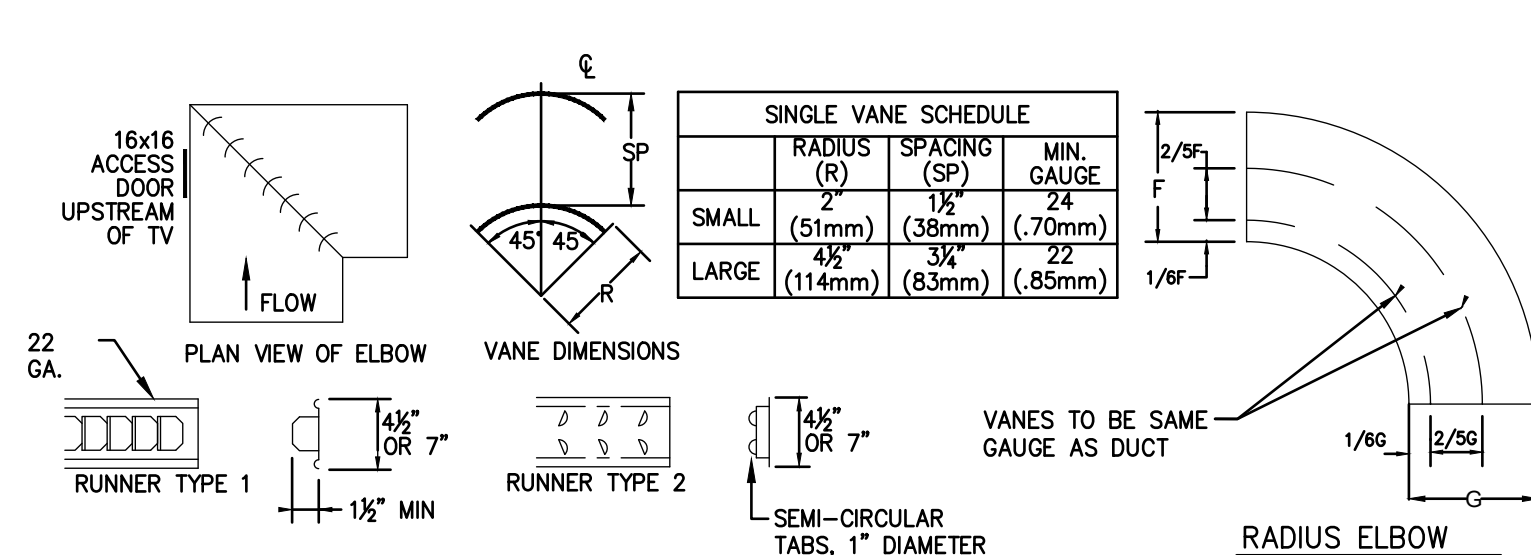
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	CHECKED BY JBL	SCALE	



1 DUCT TRANSITION, OFFSET, & ELBOW DETAILS

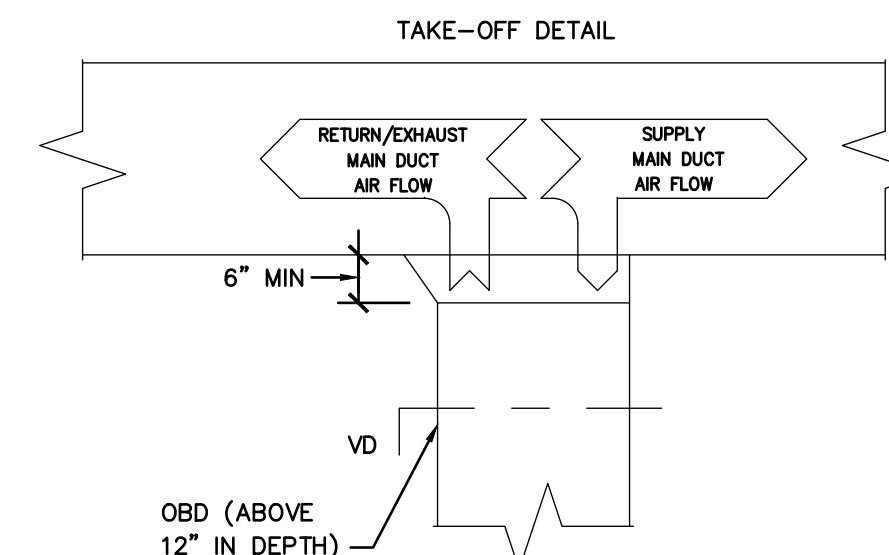
H500 SCALE: NOT TO SCALE



- NOTES:**
- THIS LAYOUT PRESUMES AN ELBOW WITH EQUAL INLET & OUTLET SIZES. CHANGE ELBOWS (E WITH A SIZE CHANGE) SHALL BE INDIVIDUALLY DETAILED BY SHEET METAL CONTRACTOR, INDICATING MODIFIED OR CUSTOM RUNNER (RAL) & VANE REQUIRED TO ENSURE VANES ARE PERPENDICULAR TO AIRFLOW.
 - MAX UNSUPPORTED VANE LENGTH SHALL NOT EXCEED 6" FOR LARGE OR SMALL SINGLE VANE. INSTALL LONGER LENGTHS IN MULTIPLE SECTIONS.
 - VANES SHALL BE SECURELY FASTENED TO DUCT WITH SCREWS, BOLTS, OR WELDS.
 - RUNNERS SHALL BE SECURELY FASTENED TO DUCT WITH SCREWS, BOLTS, OR WELDS.

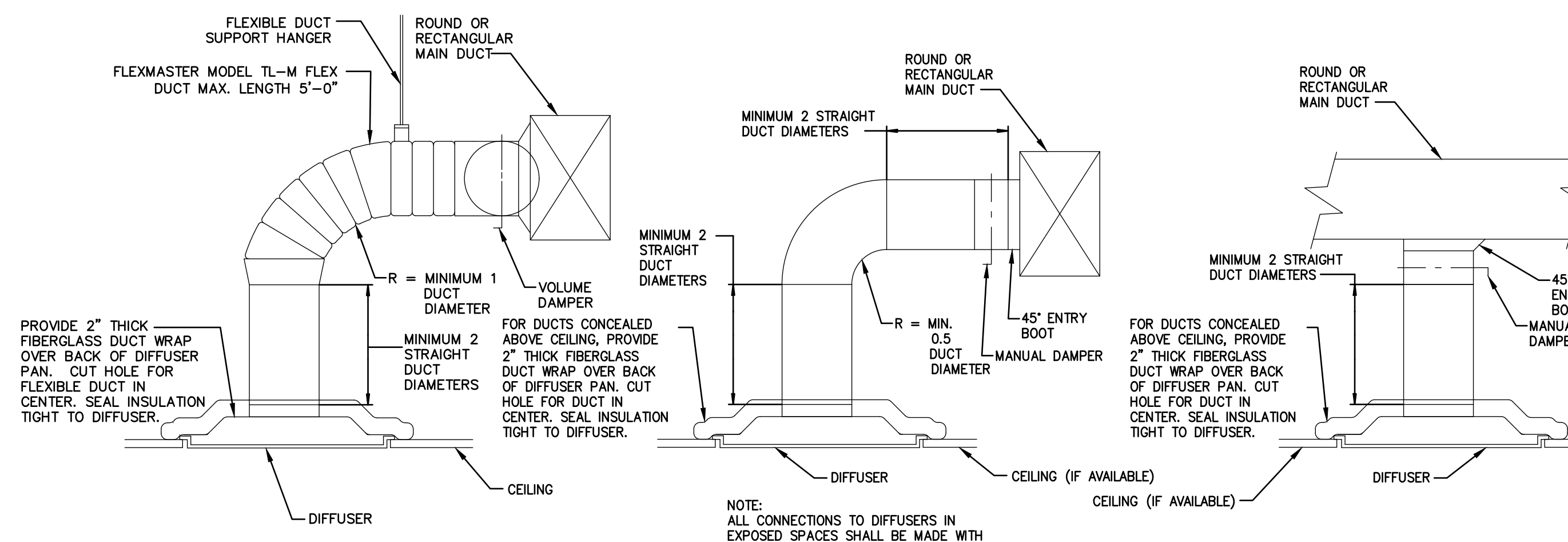
2 TURNING VANES DETAIL

H500 SCALE: NOT TO SCALE



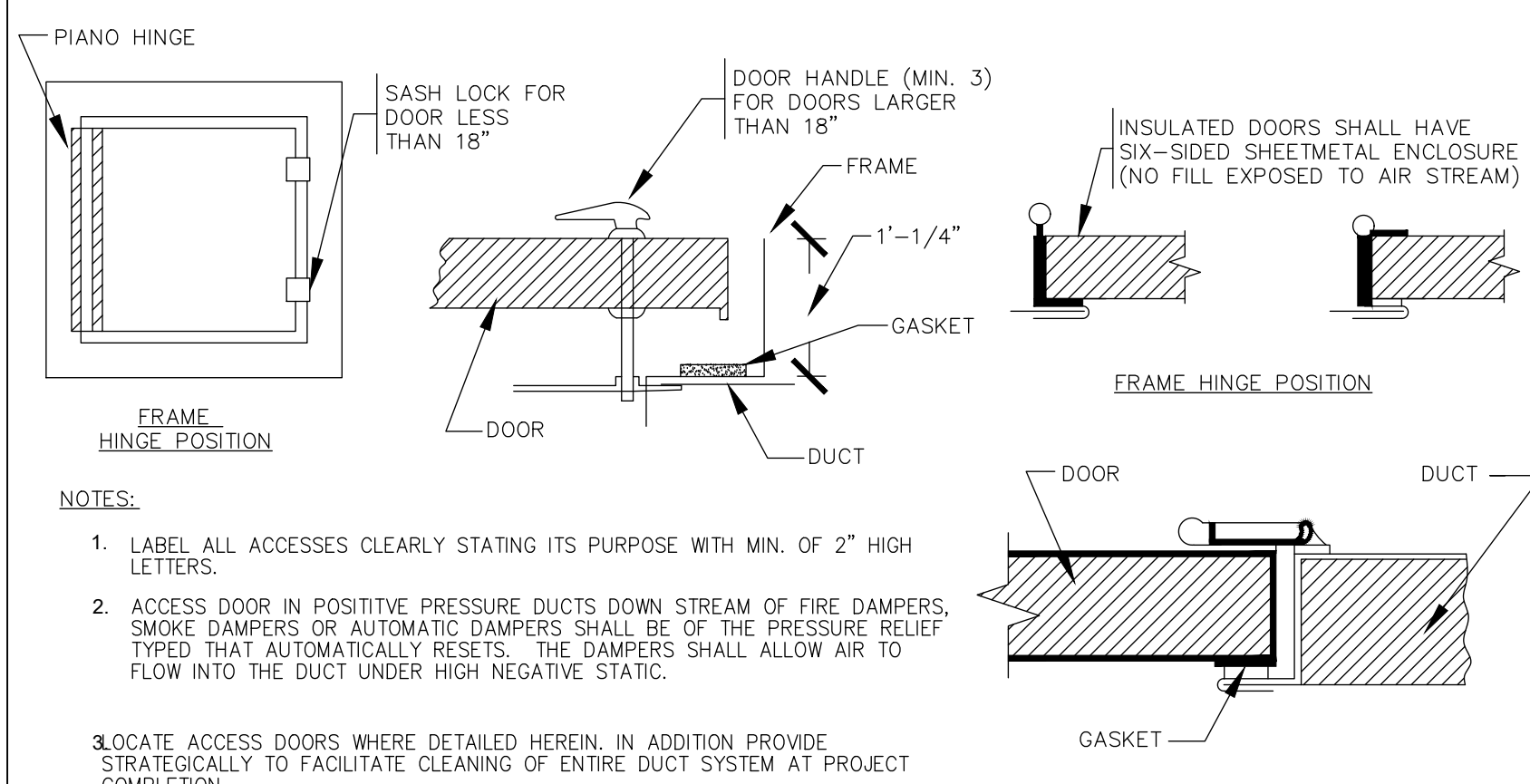
3 DUCT TAKEOFF DETAIL

H500 SCALE: NOT TO SCALE



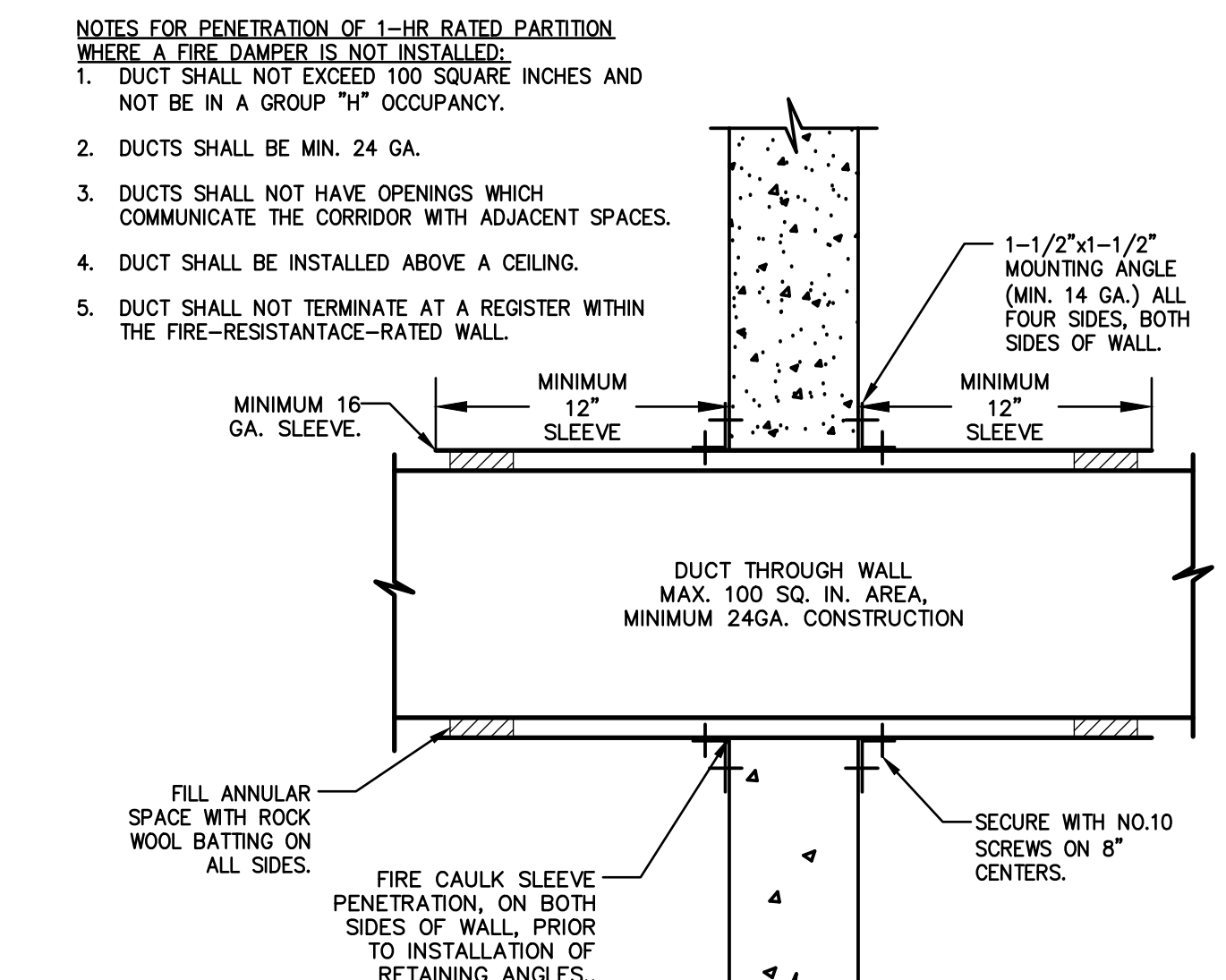
4 DIFFUSER TAKEOFF DETAILS

H500 NOT TO SCALE



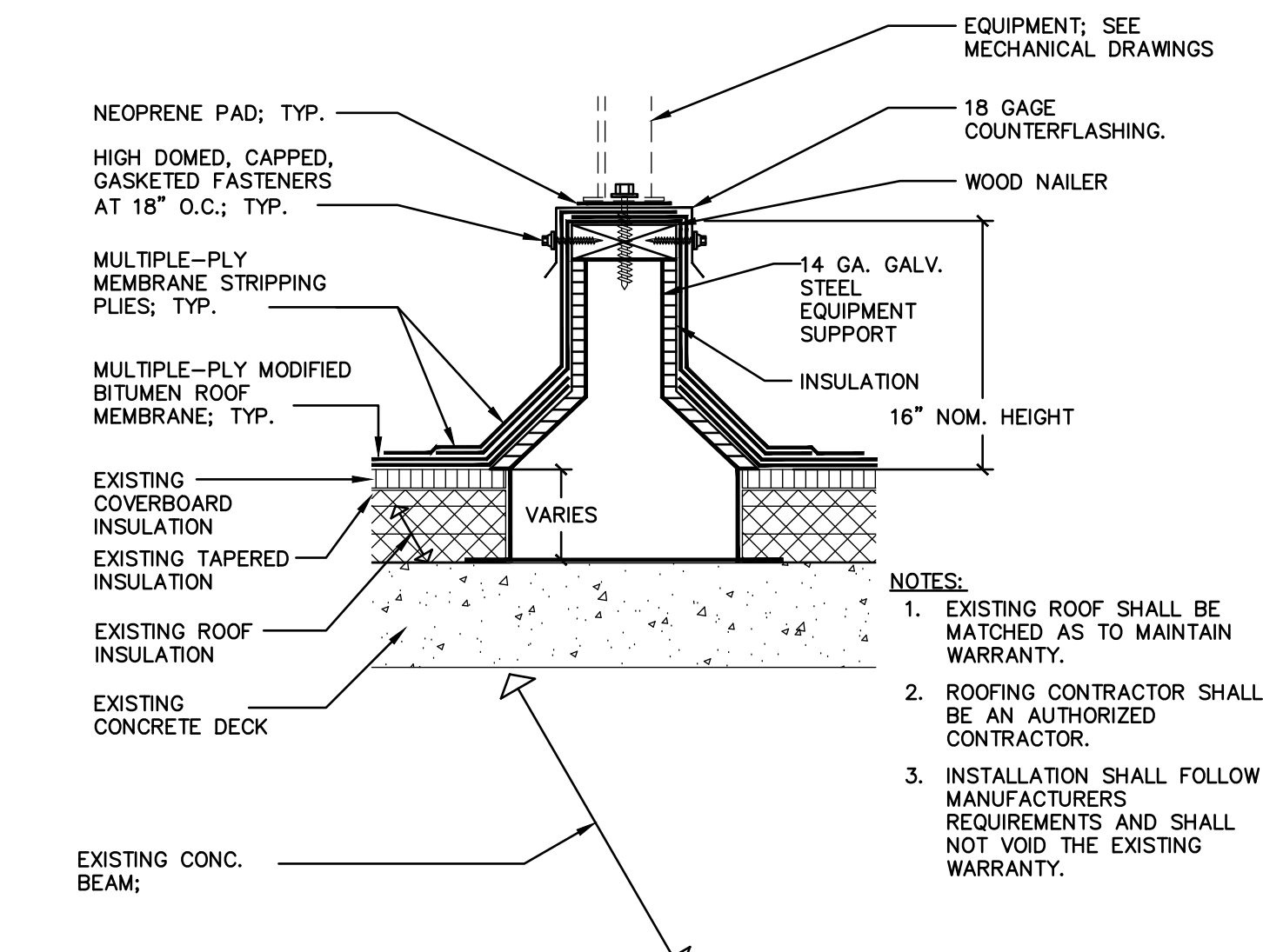
5 ACCESS DOOR DETAIL

H500 SCALE: NOT TO SCALE



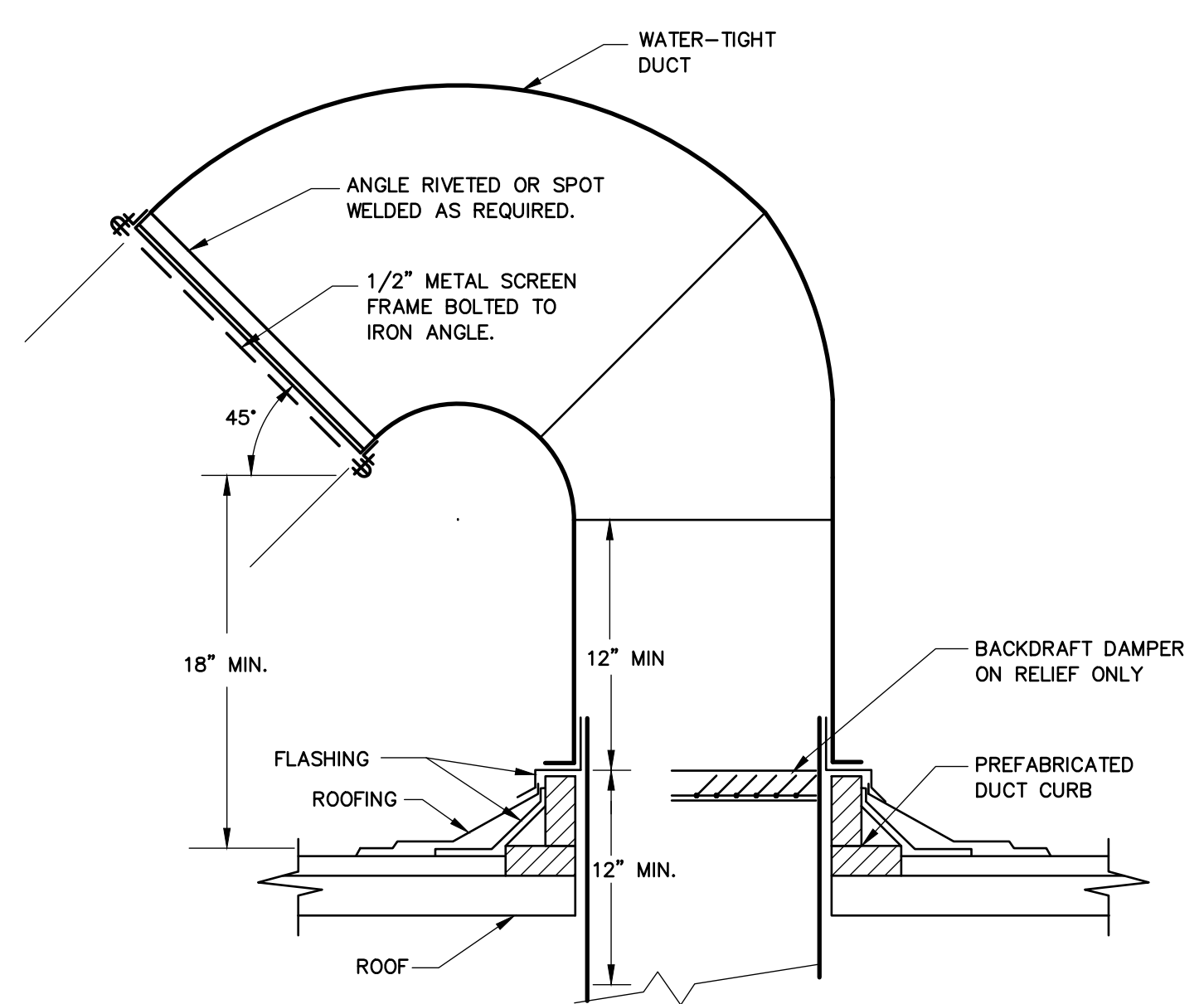
6 1HR FIRE RATED PENETRATION DETAIL

H500 SCALE: NOT TO SCALE



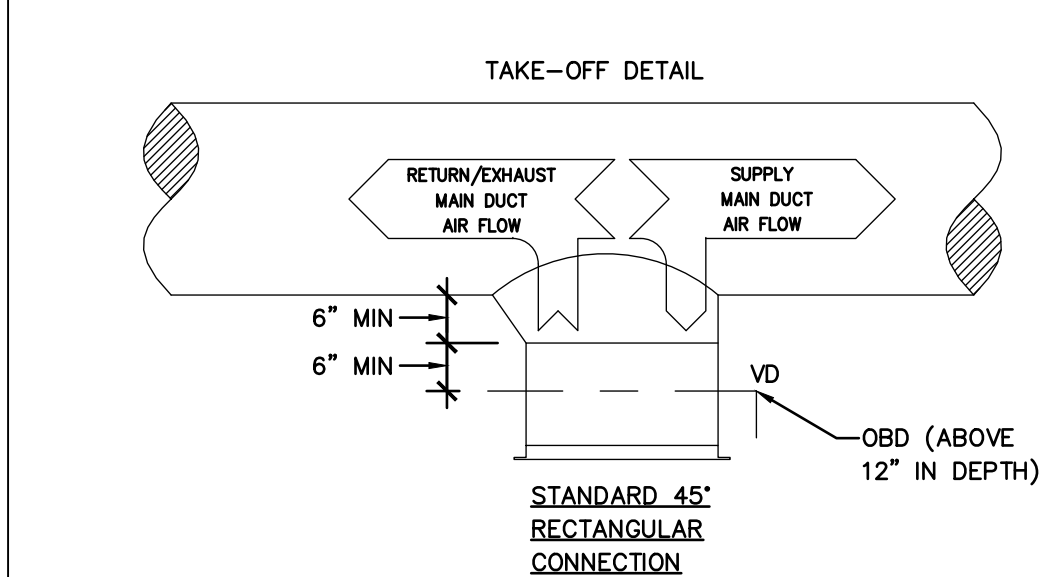
7 EQUIPMENT RAIL DETAIL

H500 SCALE: NOT TO SCALE



8 RELIEF AND INTAKE GOOSENECK DETAIL

H500 SCALE: NOT TO SCALE



9 GRD TO ROUND DUCT TAKEOFF DETAIL

H500 SCALE: NOT TO SCALE

REV SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	
07/31/2024	REVISED
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO INC.
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

DGS PROJECT No:
DGS C-0961-0044 PHASE 01

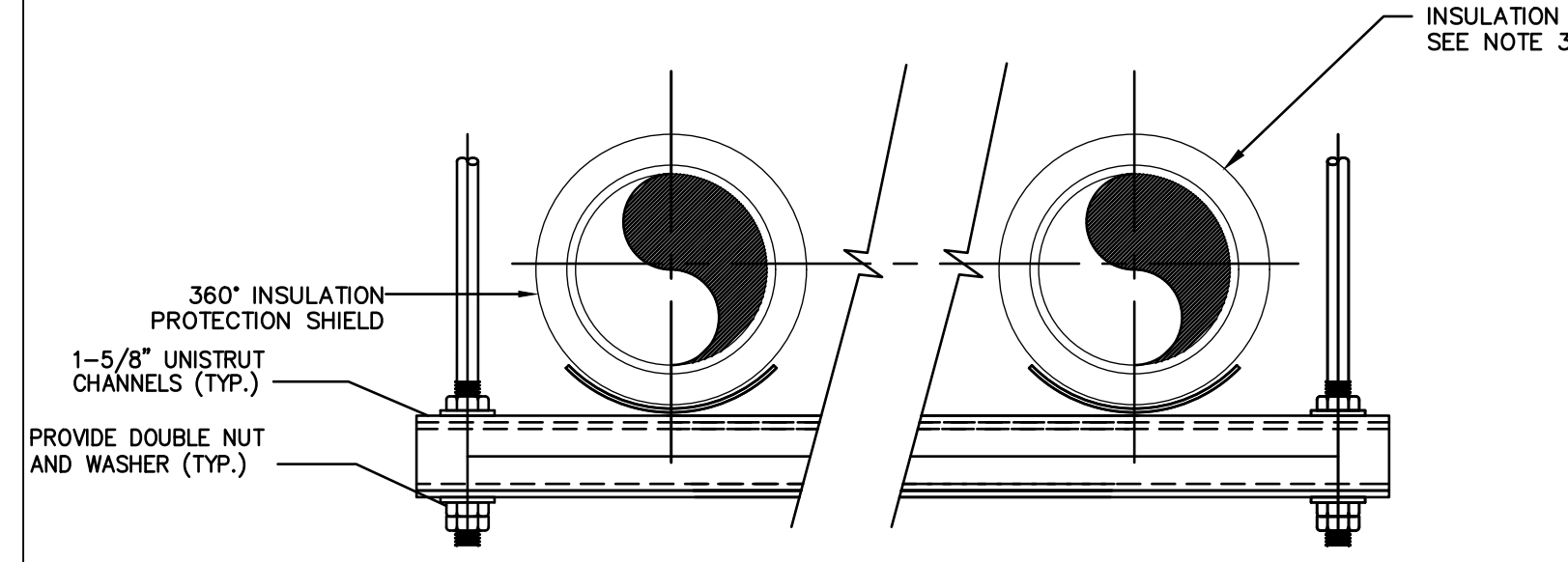
VERIFY SCALE
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

DETAILS - AIR

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

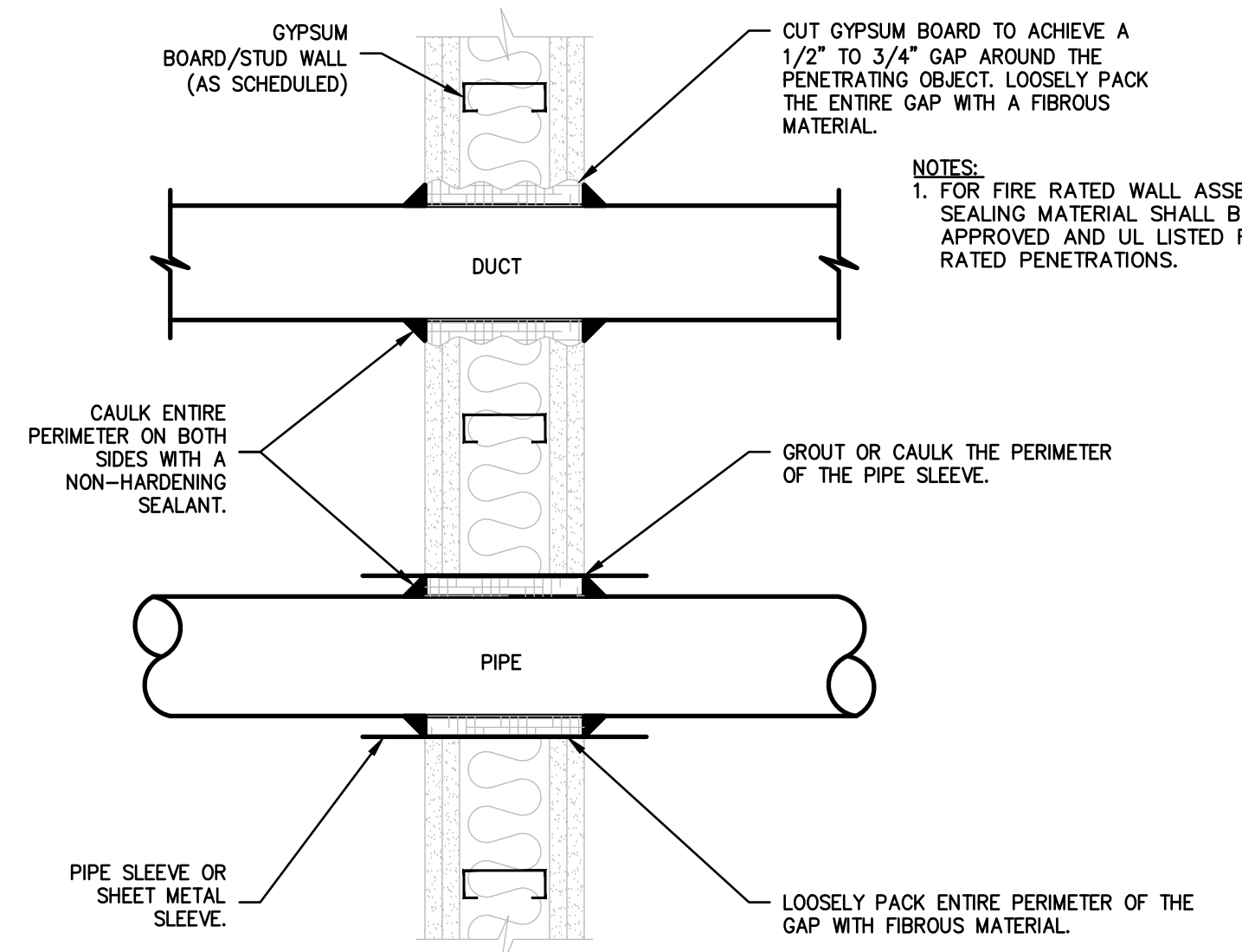
DRAWN BY: J. LUTCHENDORF
DATE: 08/26/2024
CHECKED BY: J. LUTCHENDORF
SCALE: AS NOTED
DRAWING No.: H-500

- NOTES:**
- HANGER MANUFACTURER TO DESIGN STOCK SIZE TO MATCH HANGER LOAD. SUBMIT SHOP DRAWINGS INDICATING LOAD, CALCULATIONS & DIMENSIONS.
 - ROD SIZE AS REQUIRED TO MEET HANGER LOAD. SUBMIT SHOP DRAWINGS INDICATING LOAD CALCULATIONS.
 - REFER TO SPECIFICATIONS FOR INSULATED SADDLES.



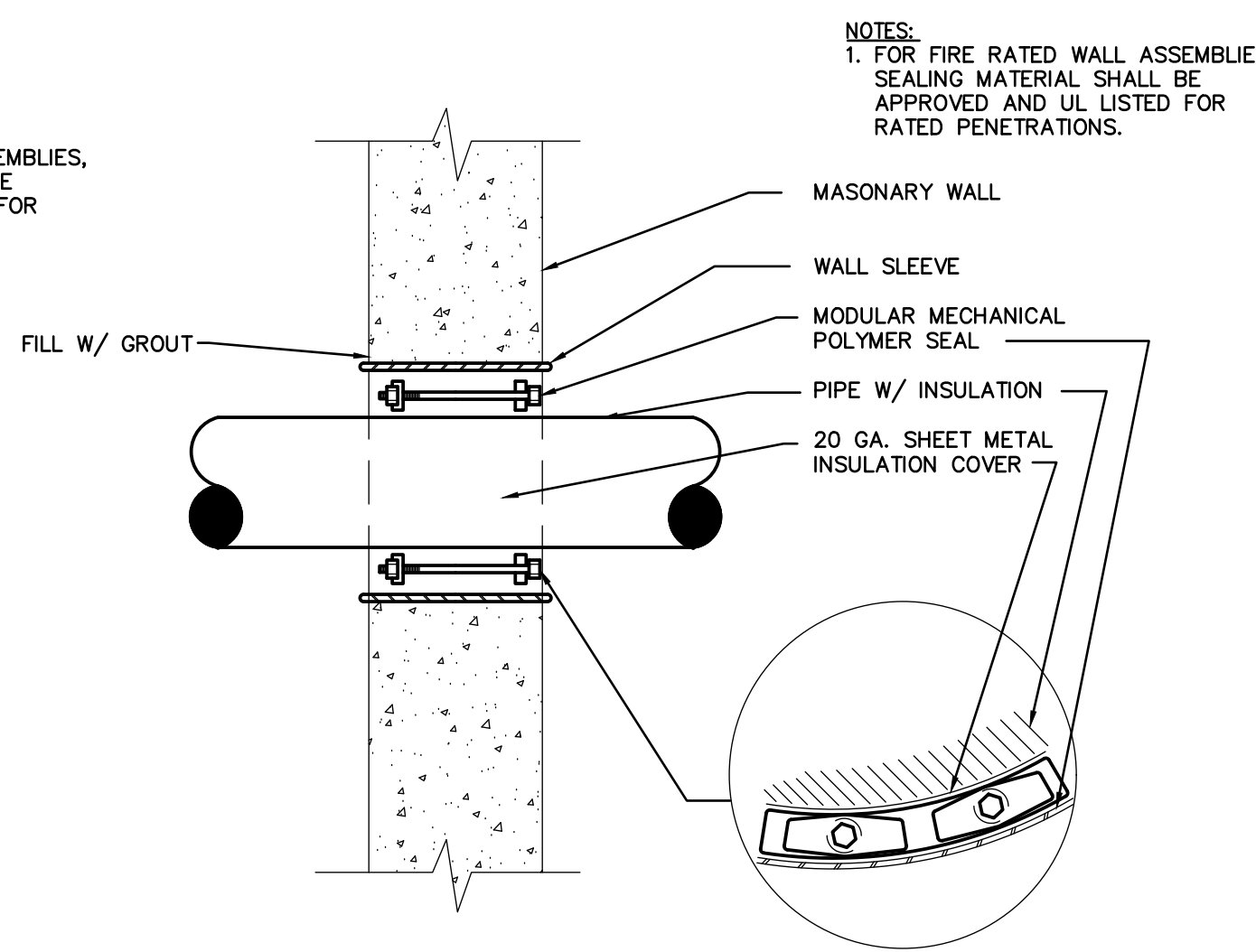
1 TRAPEZE INSULATED PIPE HANGER DETAIL

H501 SCALE: NOT TO SCALE



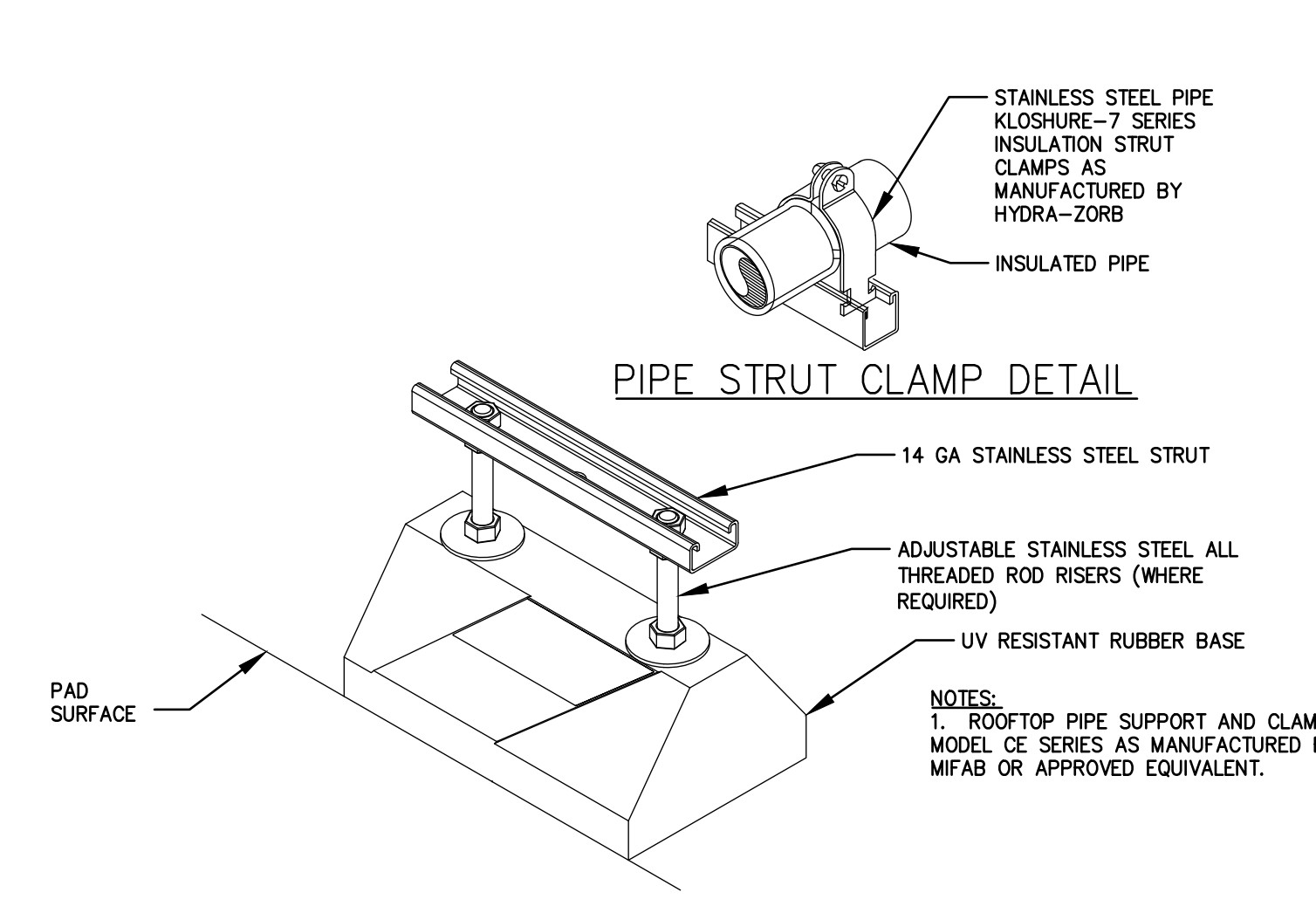
2 PENETRATION DETAILS - IN GWB PARTITIONS

H501 SCALE: NOT TO SCALE



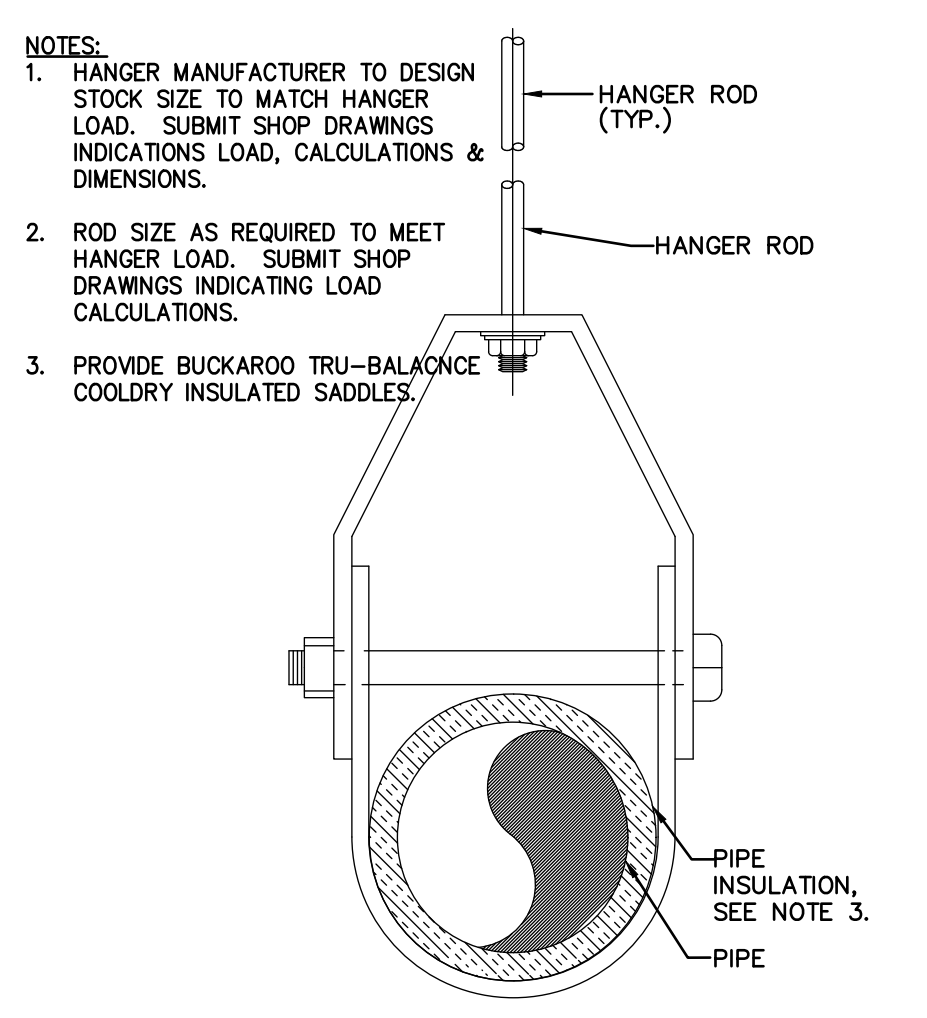
3 MASONRY WALL PENETRATION DETAIL

H501 NOT TO SCALE



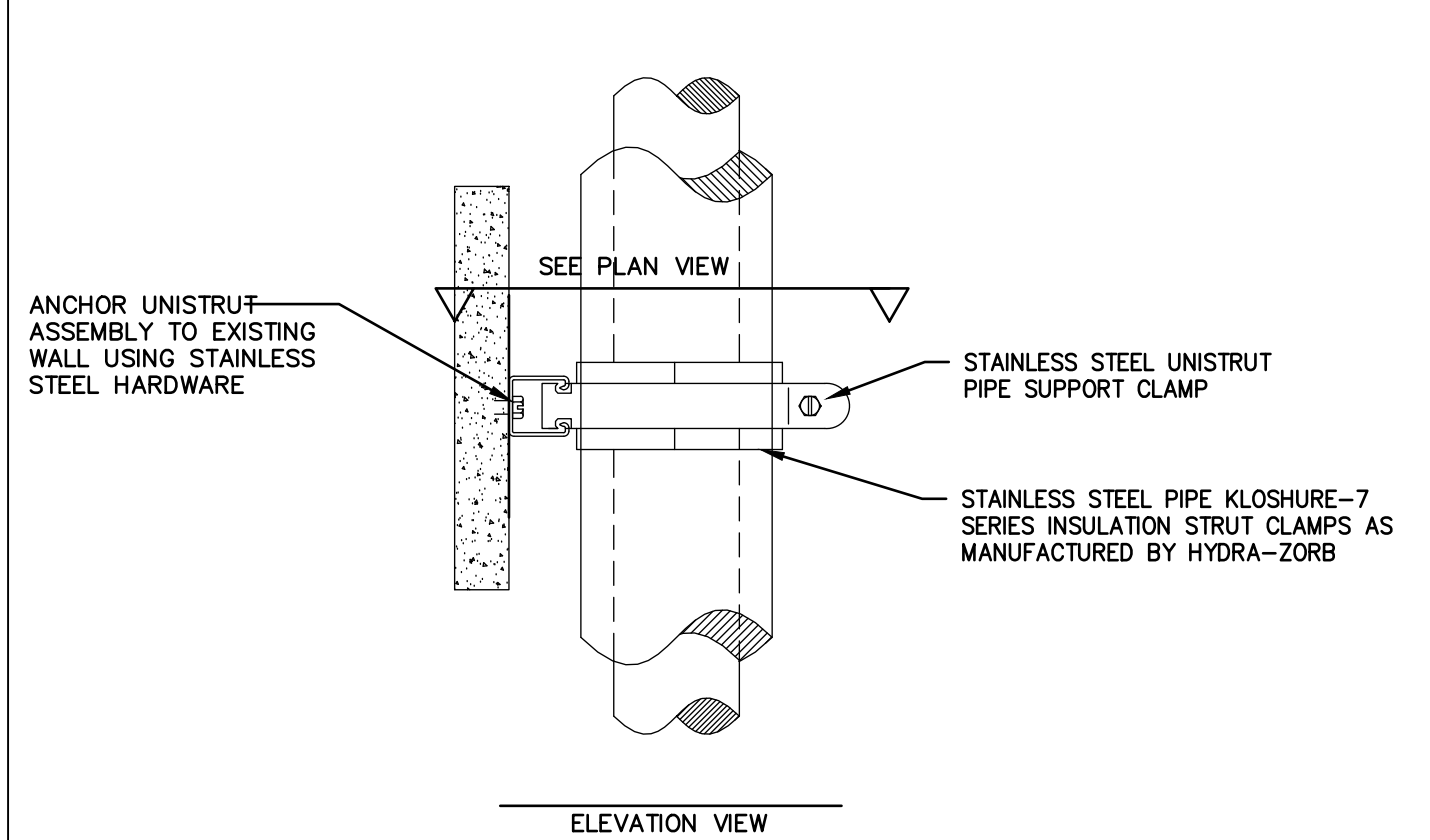
4 EXTERIOR PIPE SUPPORT SYSTEM

H501 NOT TO SCALE



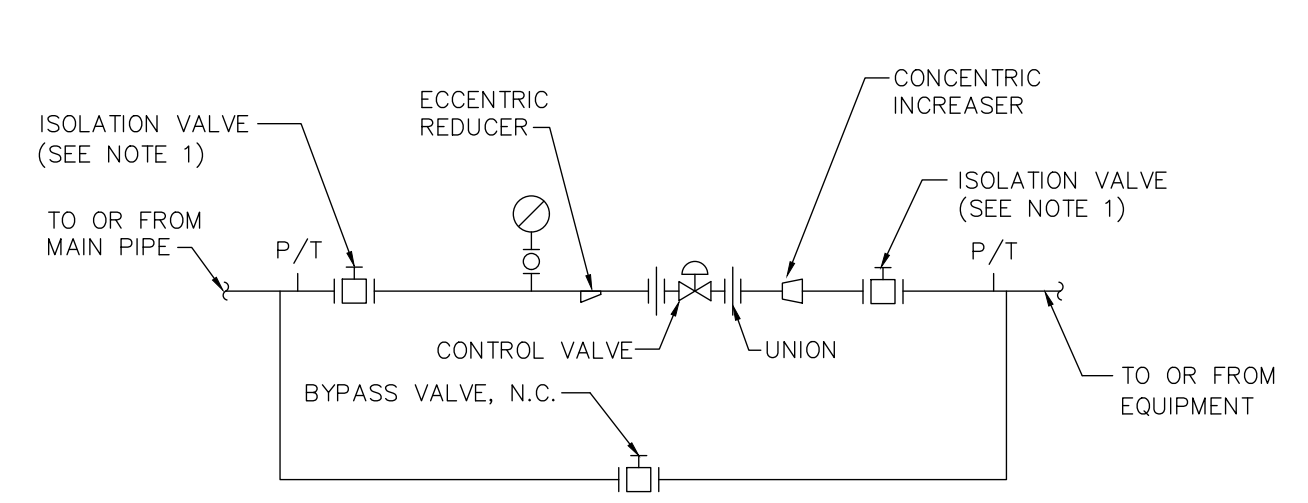
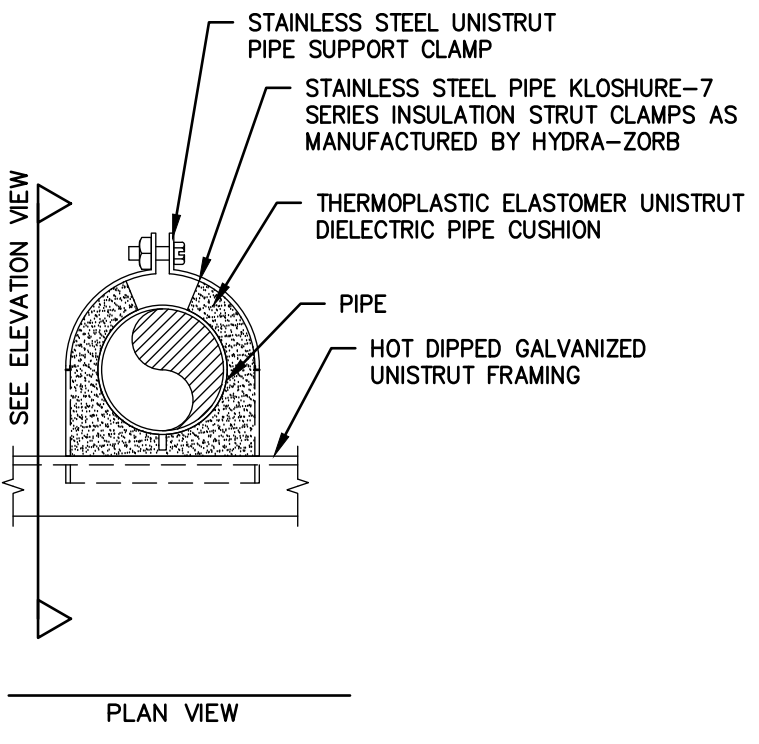
5 CLEVIS HANGER DETAIL

H501 SCALE: NOT TO SCALE



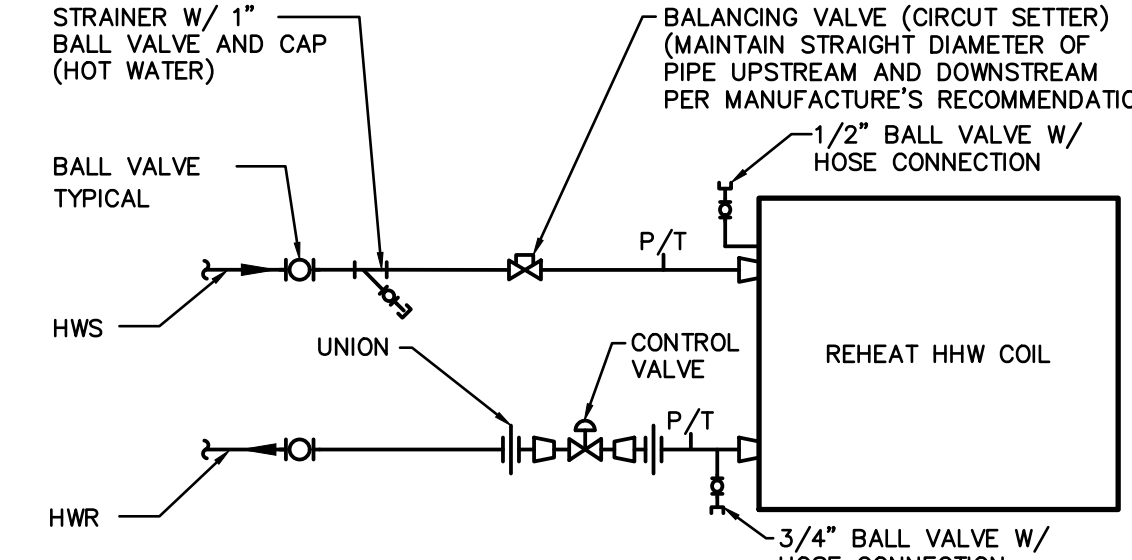
6 SMALL PIPE AND DUCT WALL SUPPORT DETAIL

H501 SCALE: NONE



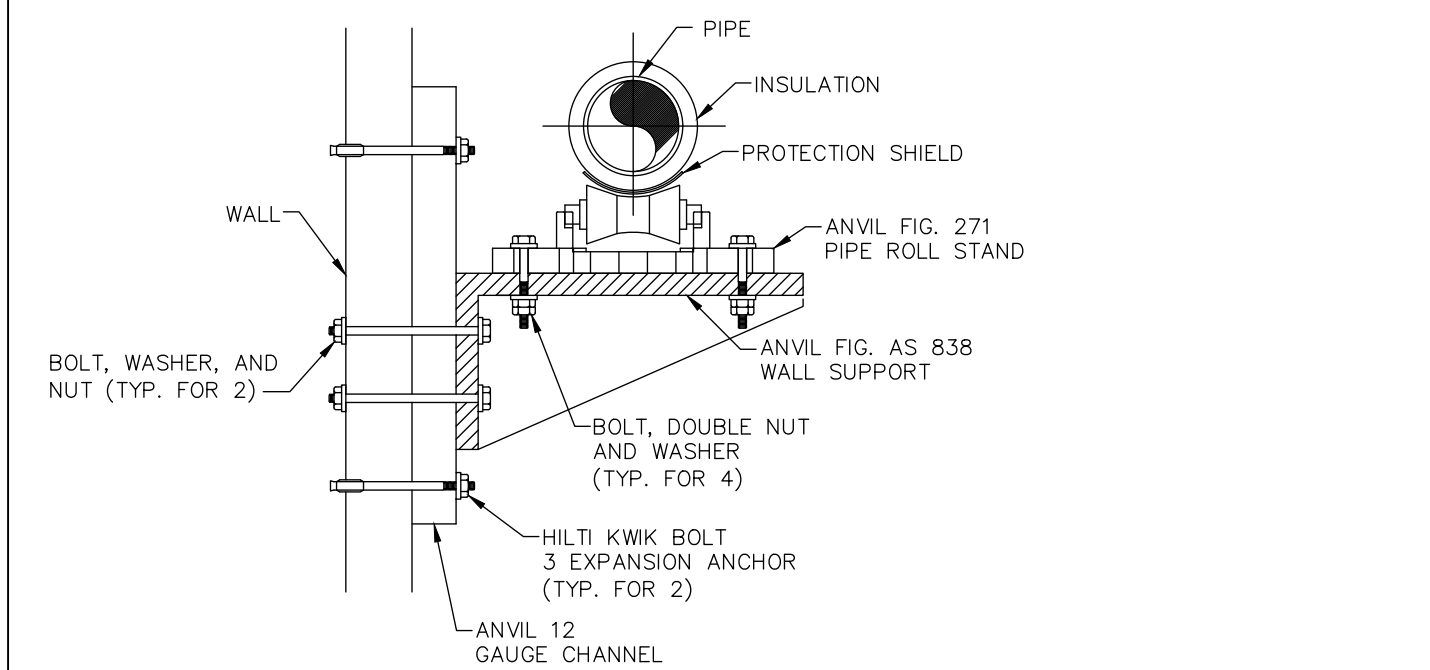
7 TWO-WAY CONTROL VALVE ASSEMBLY

H501 SCALE: NOT TO SCALE



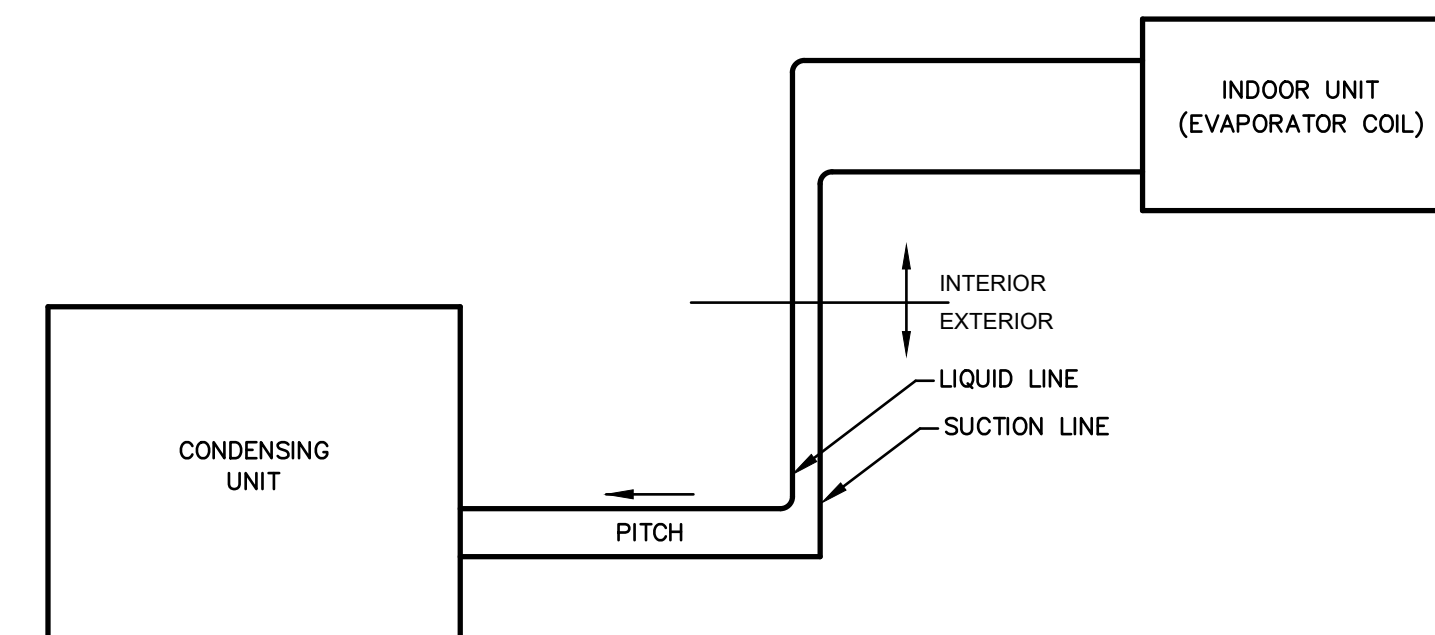
8 REHEAT COIL 2-WAY PIPING DIAGRAM

H501 SCALE: NOT TO SCALE



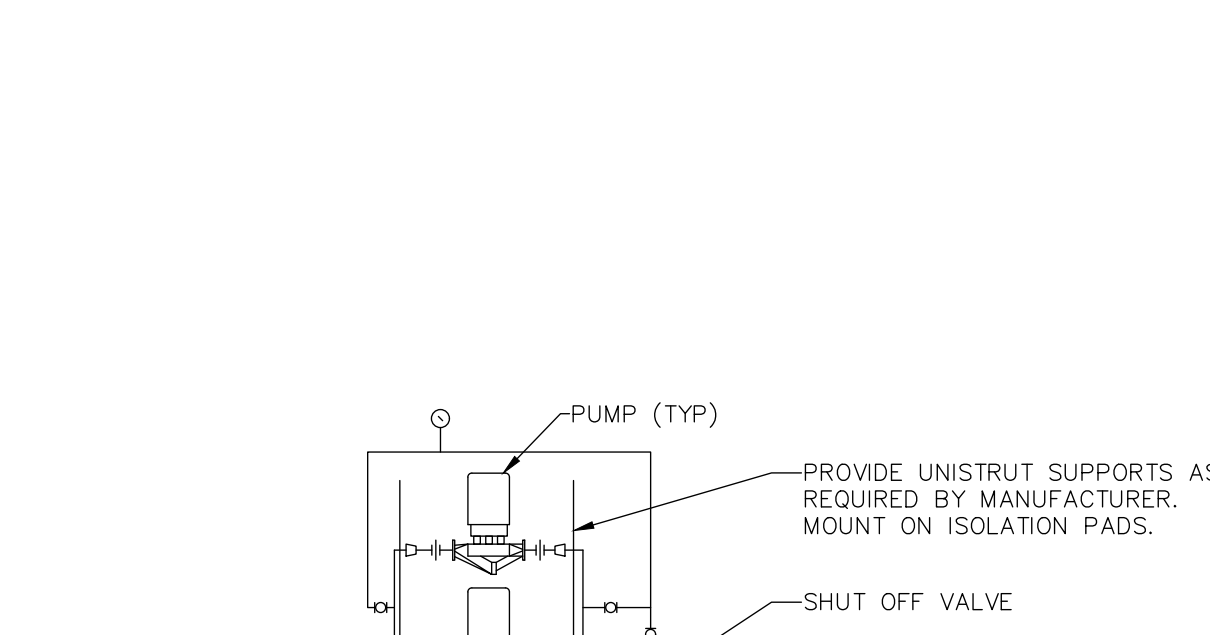
9 SMALL BORE (4" AND BELOW) WALL SUPPORT DETAIL

H501 SCALE: NOT TO SCALE



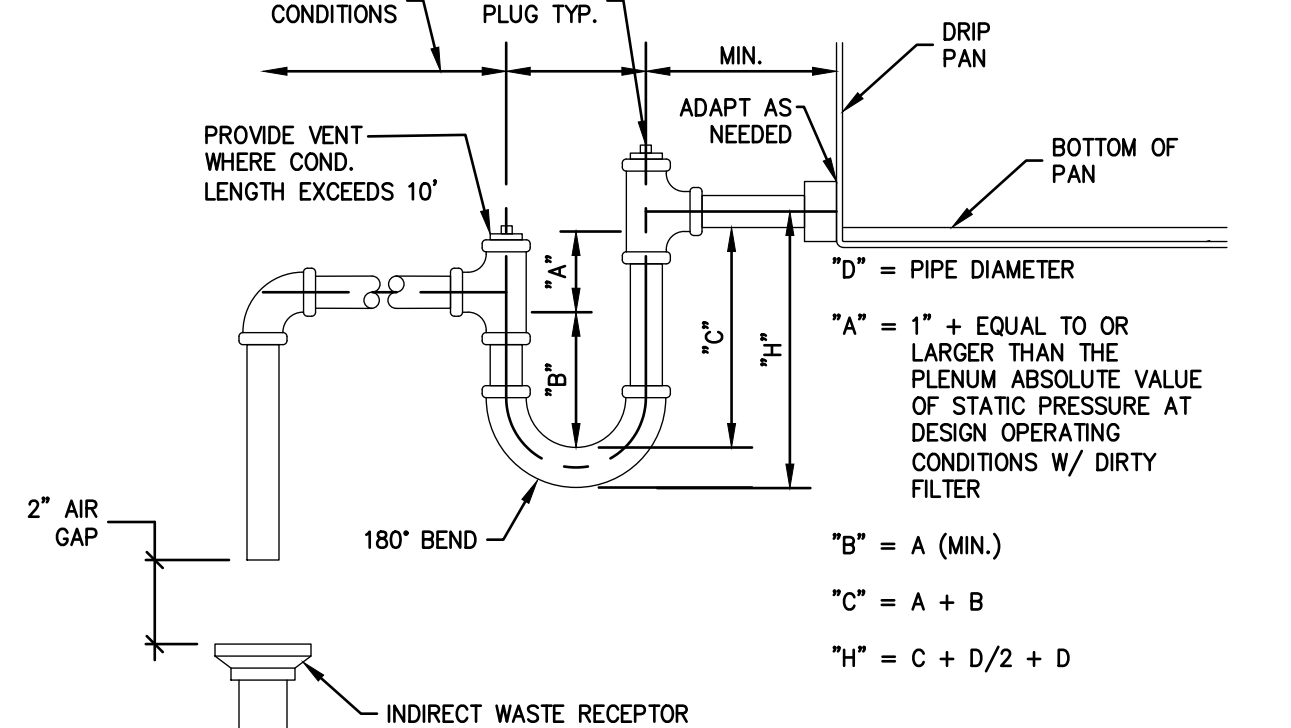
10 SPLIT SYSTEM REFRIGERANT PIPING DETAIL

H501 SCALE: NOT TO SCALE



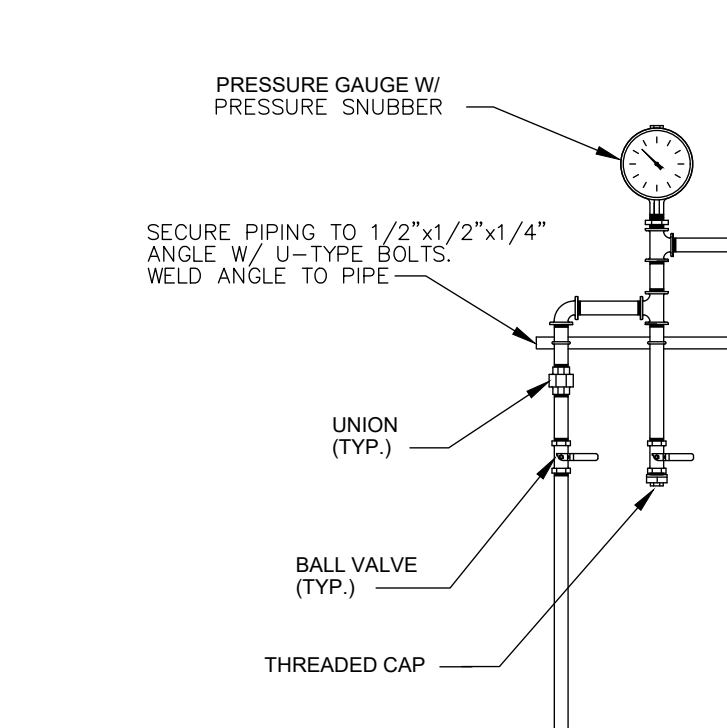
11 STACKED PUMP ASSEMBLY DETAIL

H501 SCALE: NOT TO SCALE



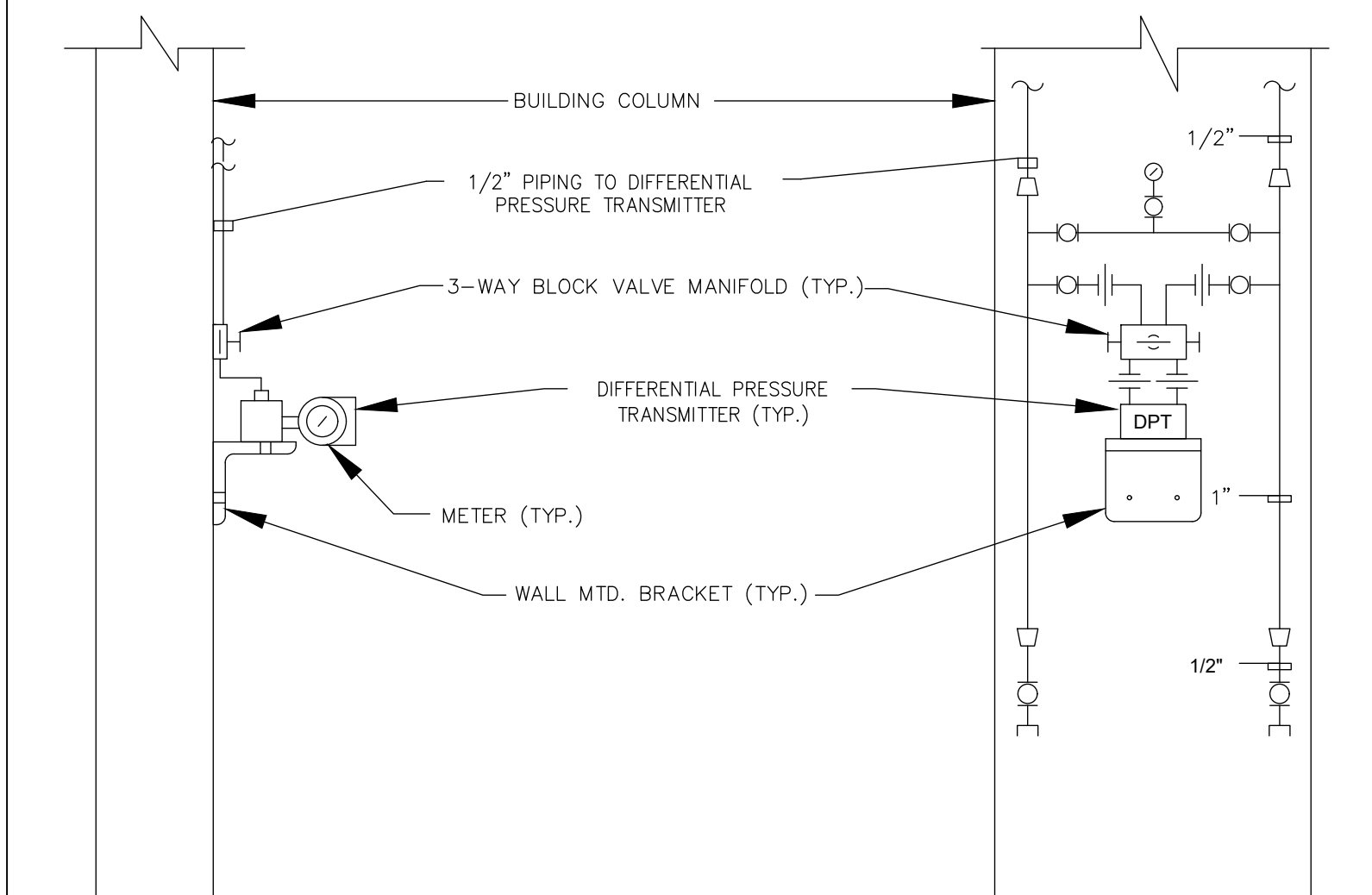
12 CONDENSATE TRAP DETAIL

H501 SCALE: NOT TO SCALE



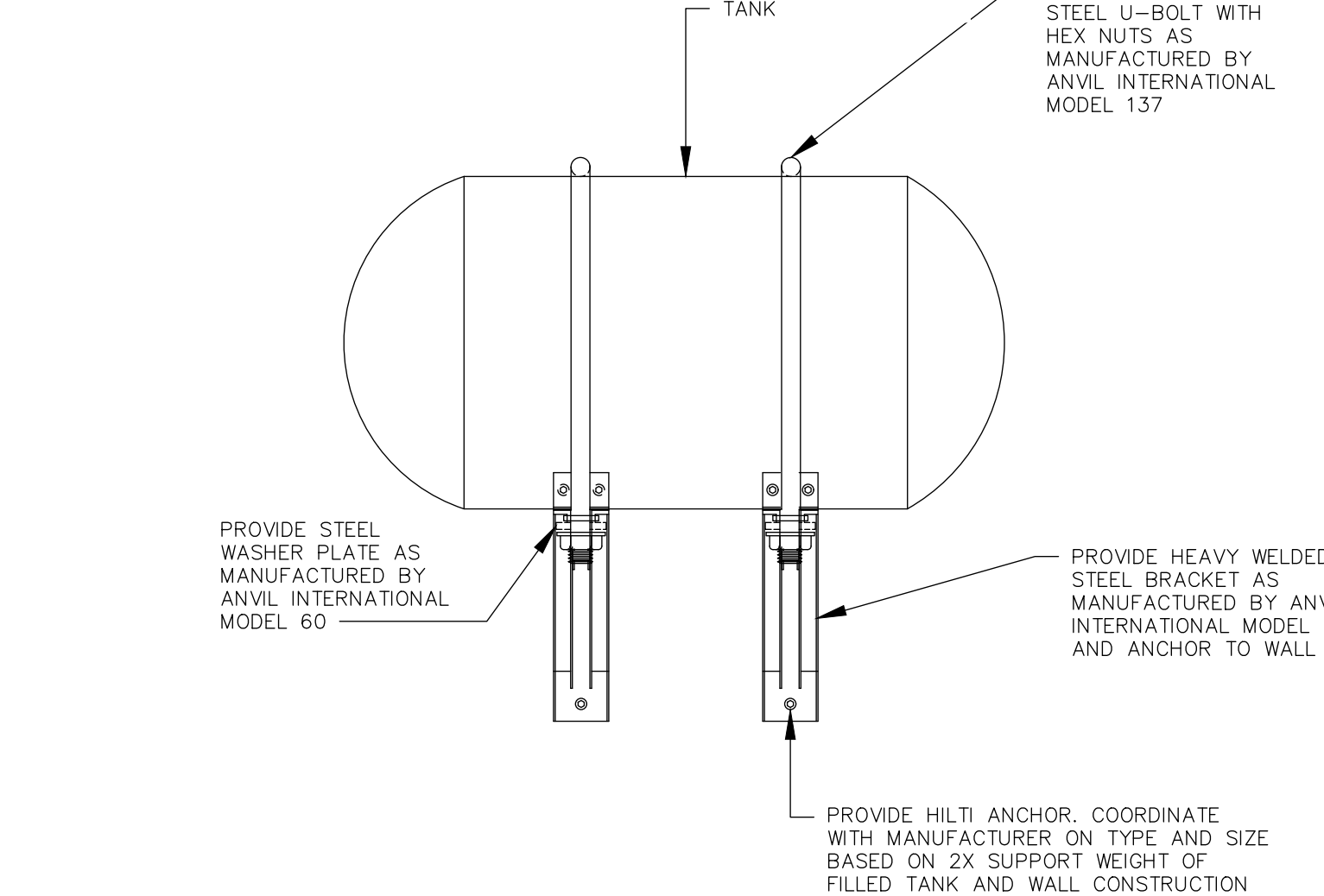
13 PRESS. GAUGE DETAIL

H501 SCALE: NOT TO SCALE



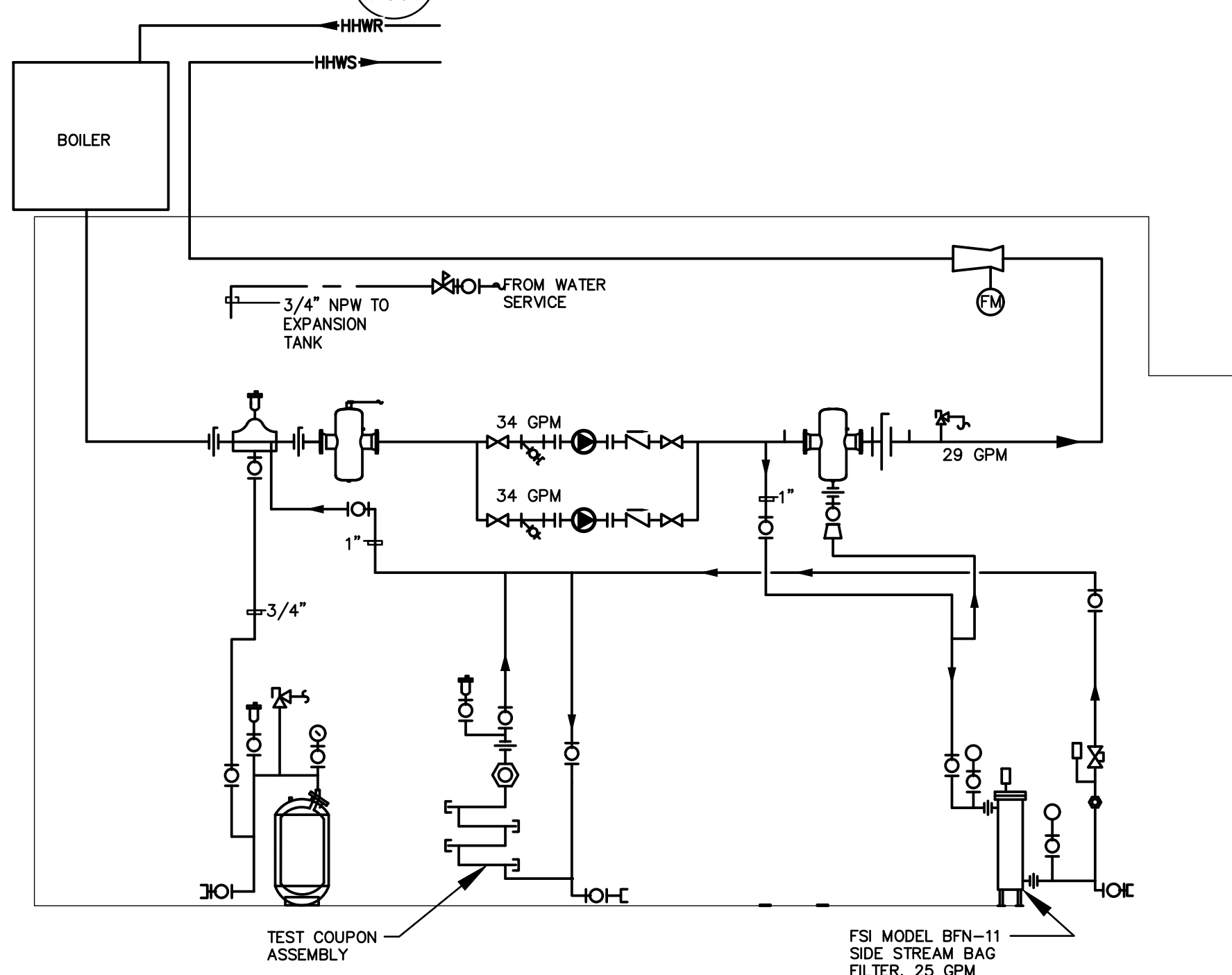
14 DIFFERENTIAL PRESSURE SENSOR DETAIL

H501 SCALE: NOT TO SCALE



15 HORIZONTAL TANK WALL SUPPORT DETAIL

H501 SCALE: NOT TO SCALE



16 NEW WORK SINGLE LINE DIAGRAM - HYDRONIC

H501 SCALE: NOT TO SCALE

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07/31/2024	REVISED
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

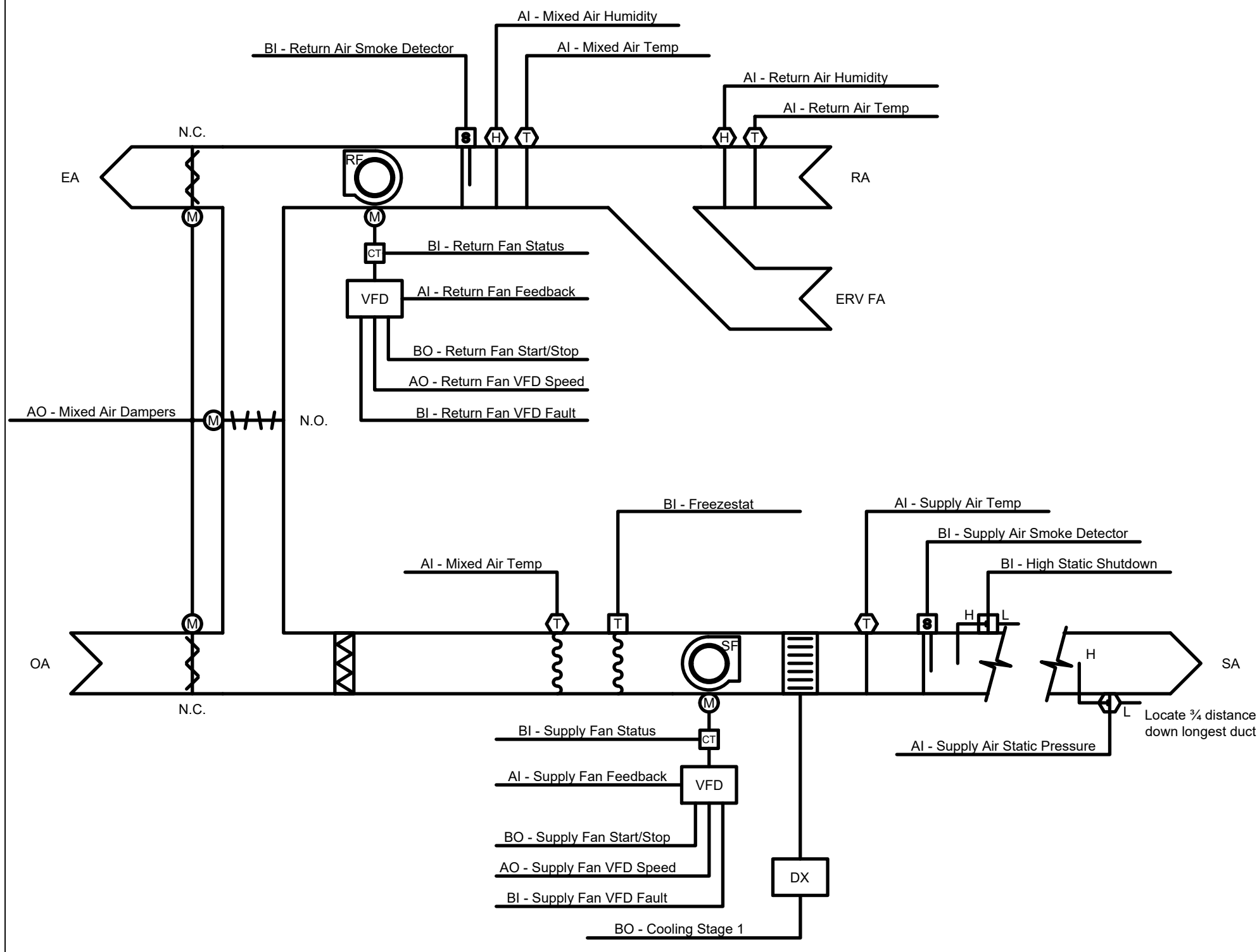
RECORD REVISIONS	
Construction Document - August 26, 2024	
SIGNATURE	DATE

ZIMMERMAN STUDIO
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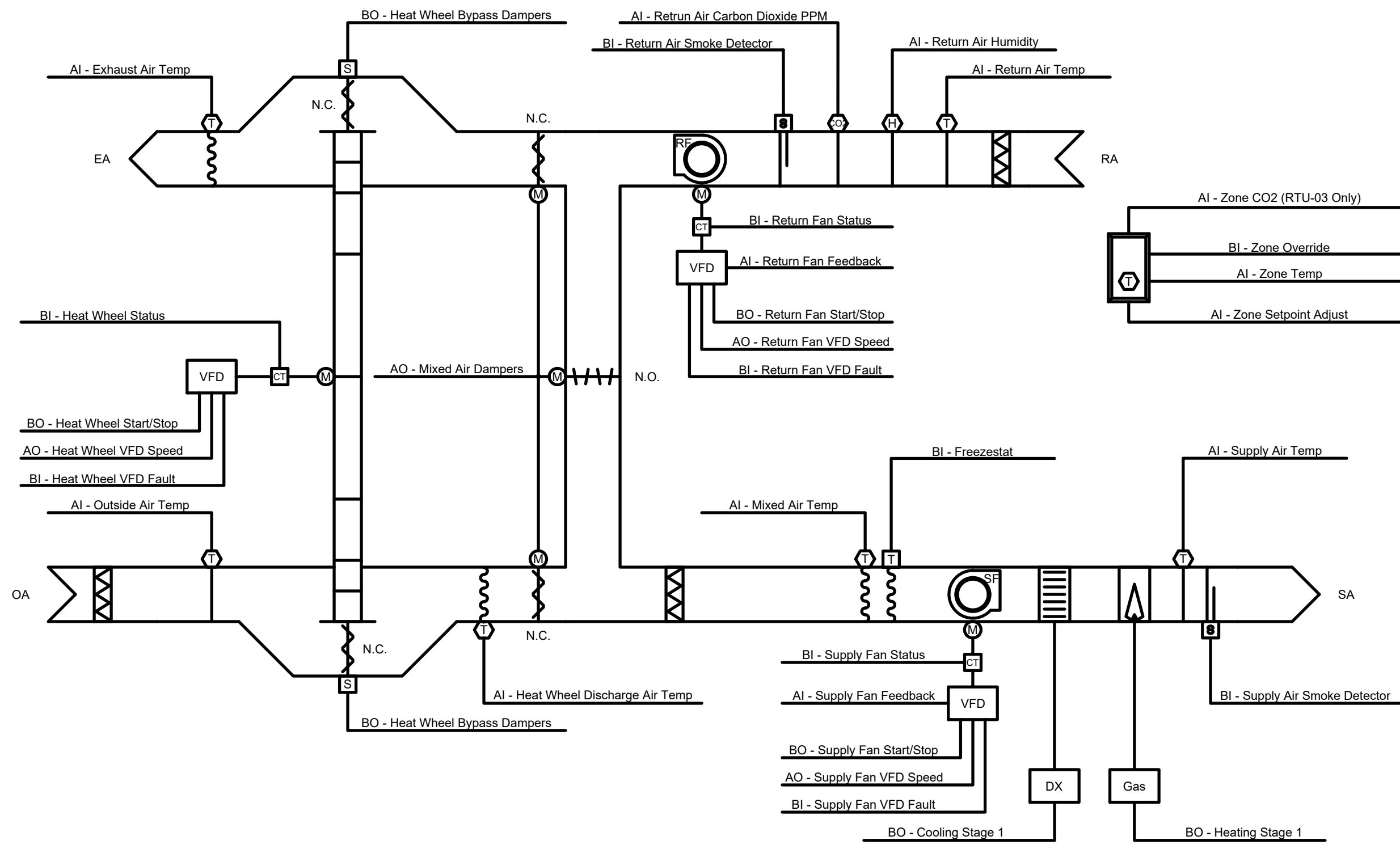
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

DGS PROJECT No.
DGS C-0961-0044 PHASE 01

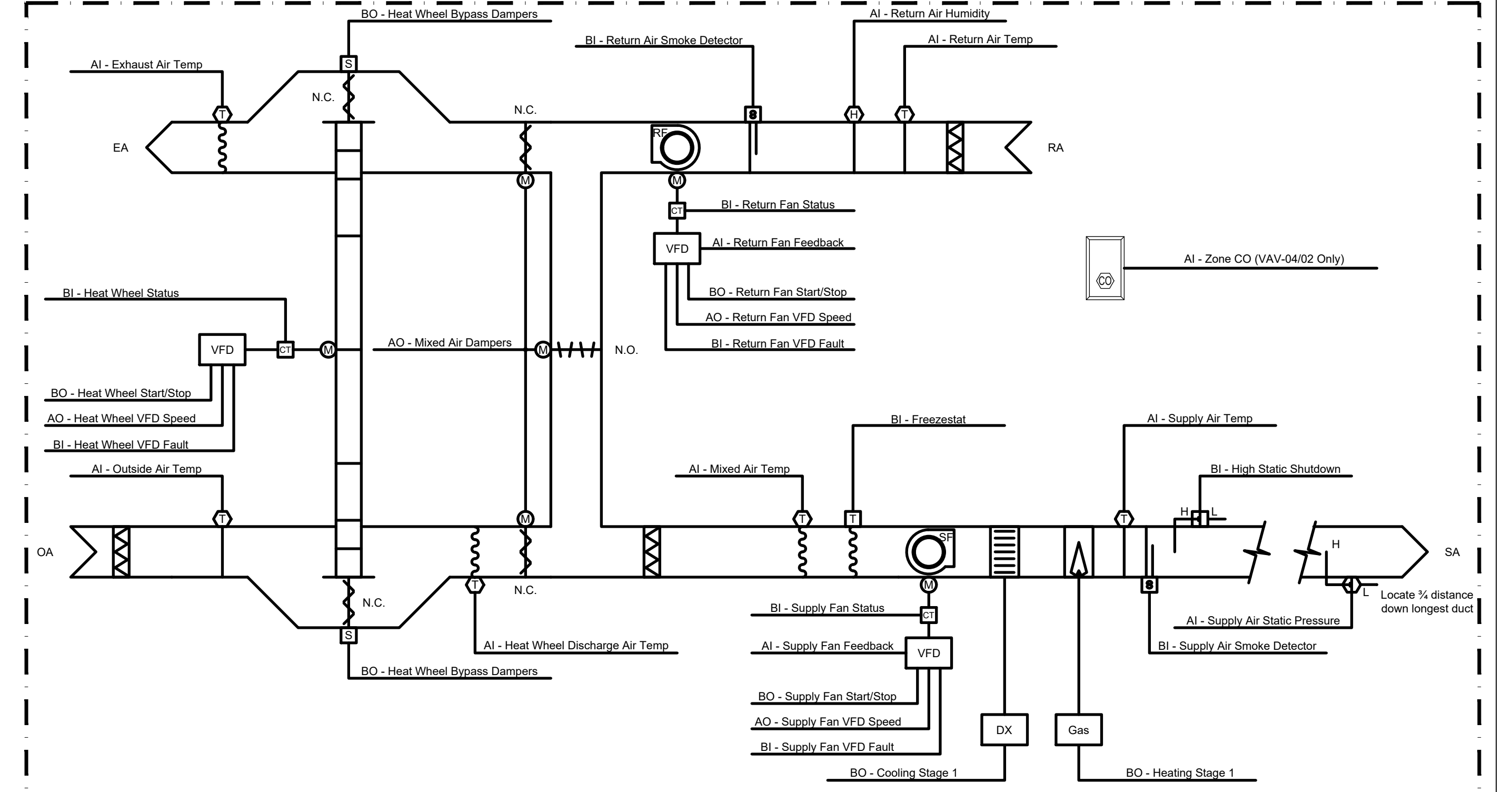
VERIFY SCALE	BUILDING 237 RENOVATION BIDDLE AIR GUARD STATION
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:	HORSHAM, PA 19044
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	DETAILS - HYDRONIC
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	H-501
DRAWN BY: J. LUTCHENDORF	DATE: 08/26/2024
CHECKED BY: J. LUTCHENDORF	SCALE: AS NOTED



1 H502 NTS MULTI-ZONE VARIABLE AIR VOLUME RTU CONTROLS RTU-1

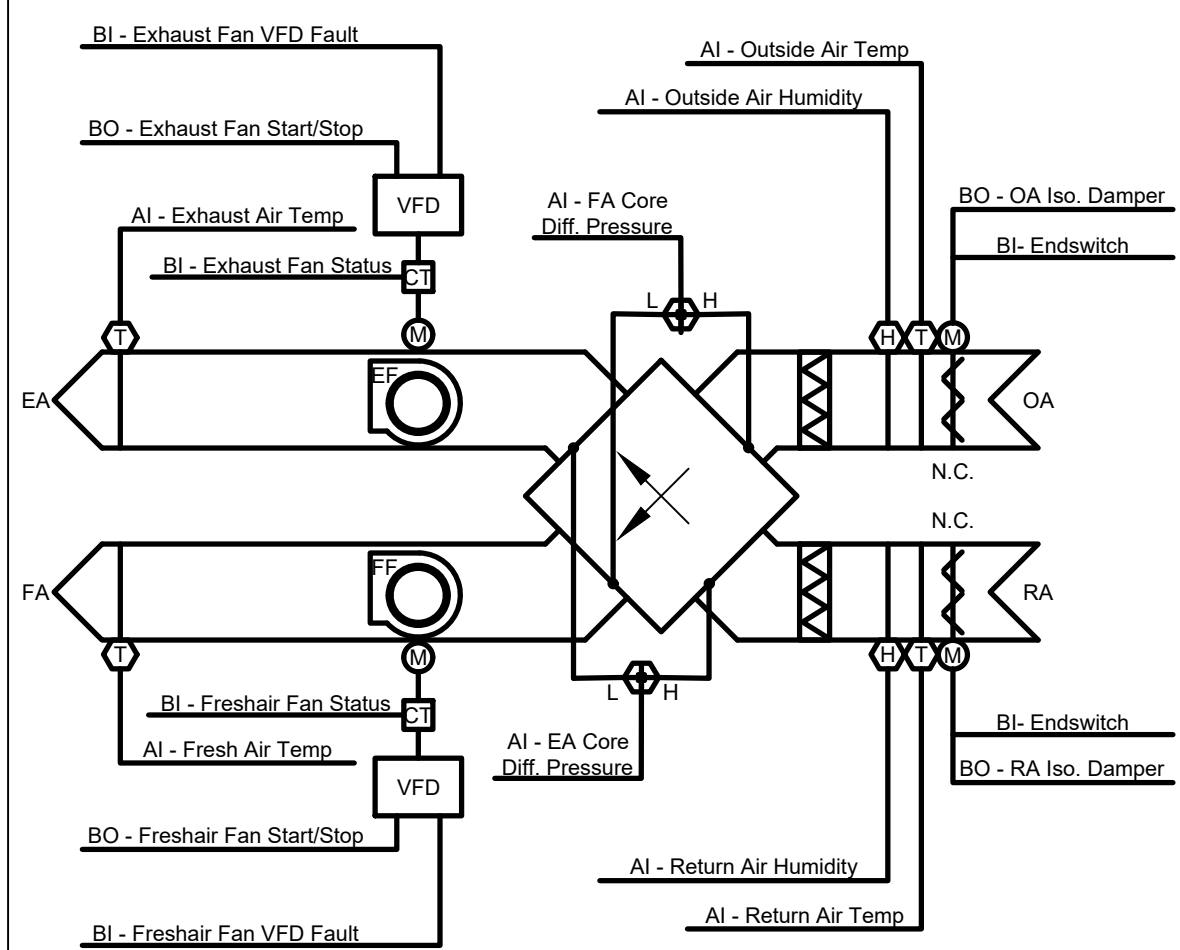


2 H502 NTS SINGLE-ZONE VARIABLE AIR VOLUME RTU CONTROLS RTU-2, RTU-3

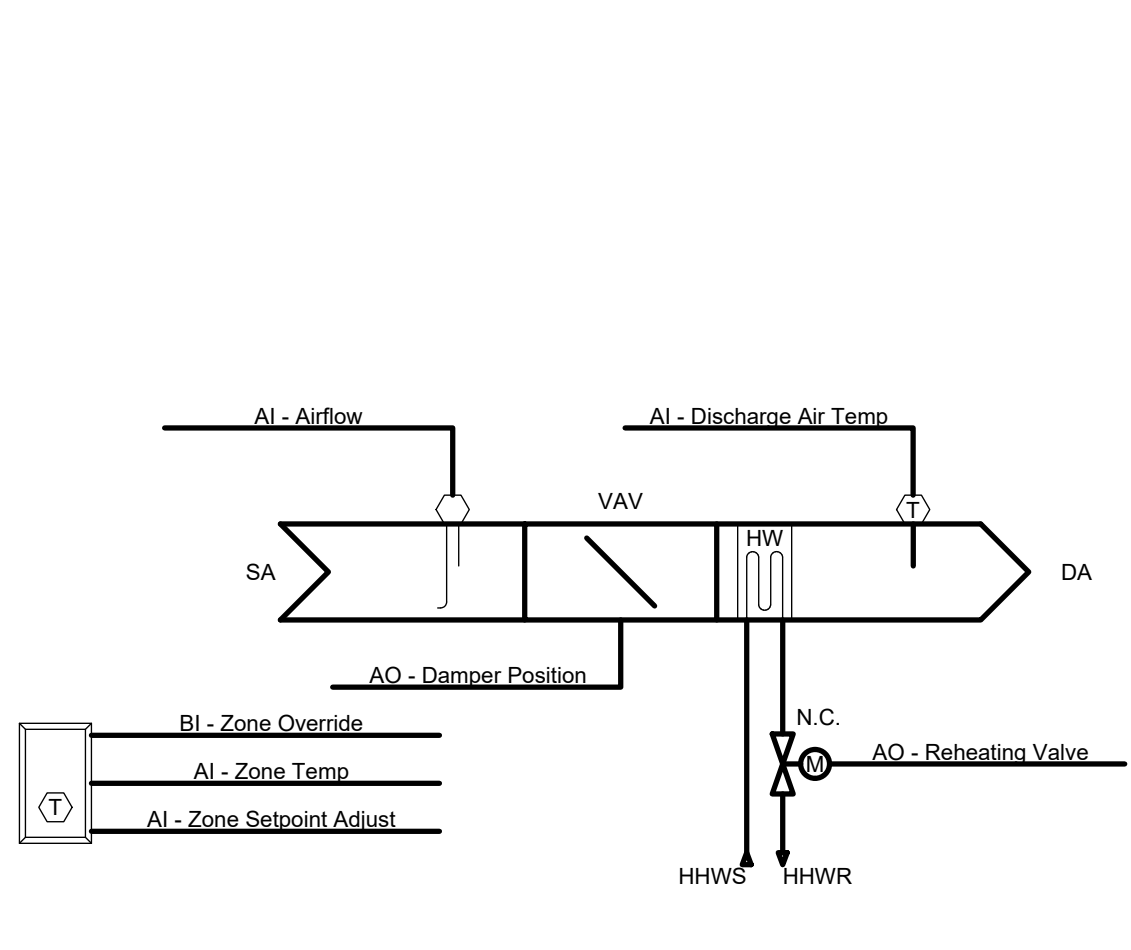


3 H502 NTS MULTI-ZONE VARIABLE AIR VOLUME RTU CONTROLS RTU-4

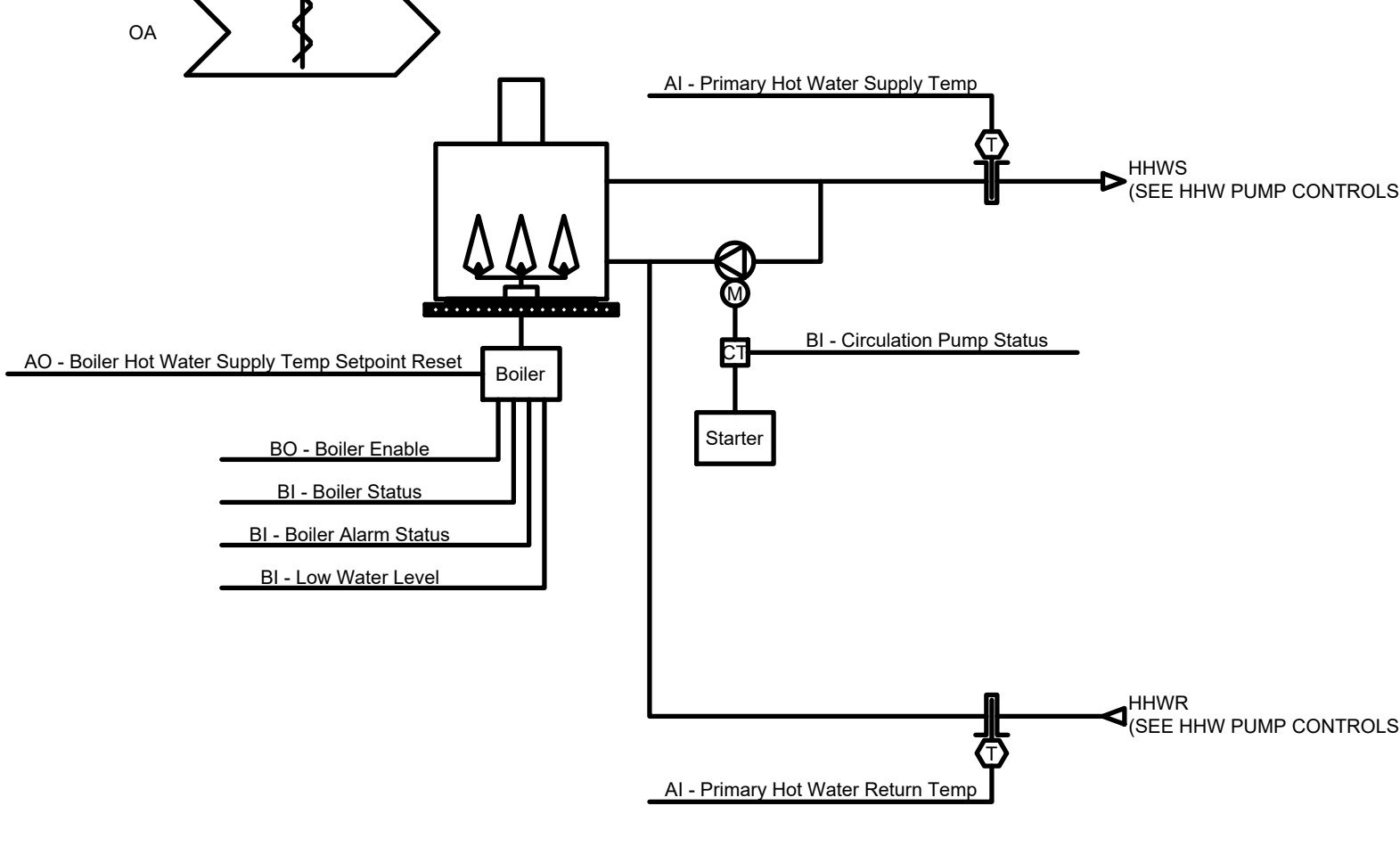
BASE-BID #2 ONLY



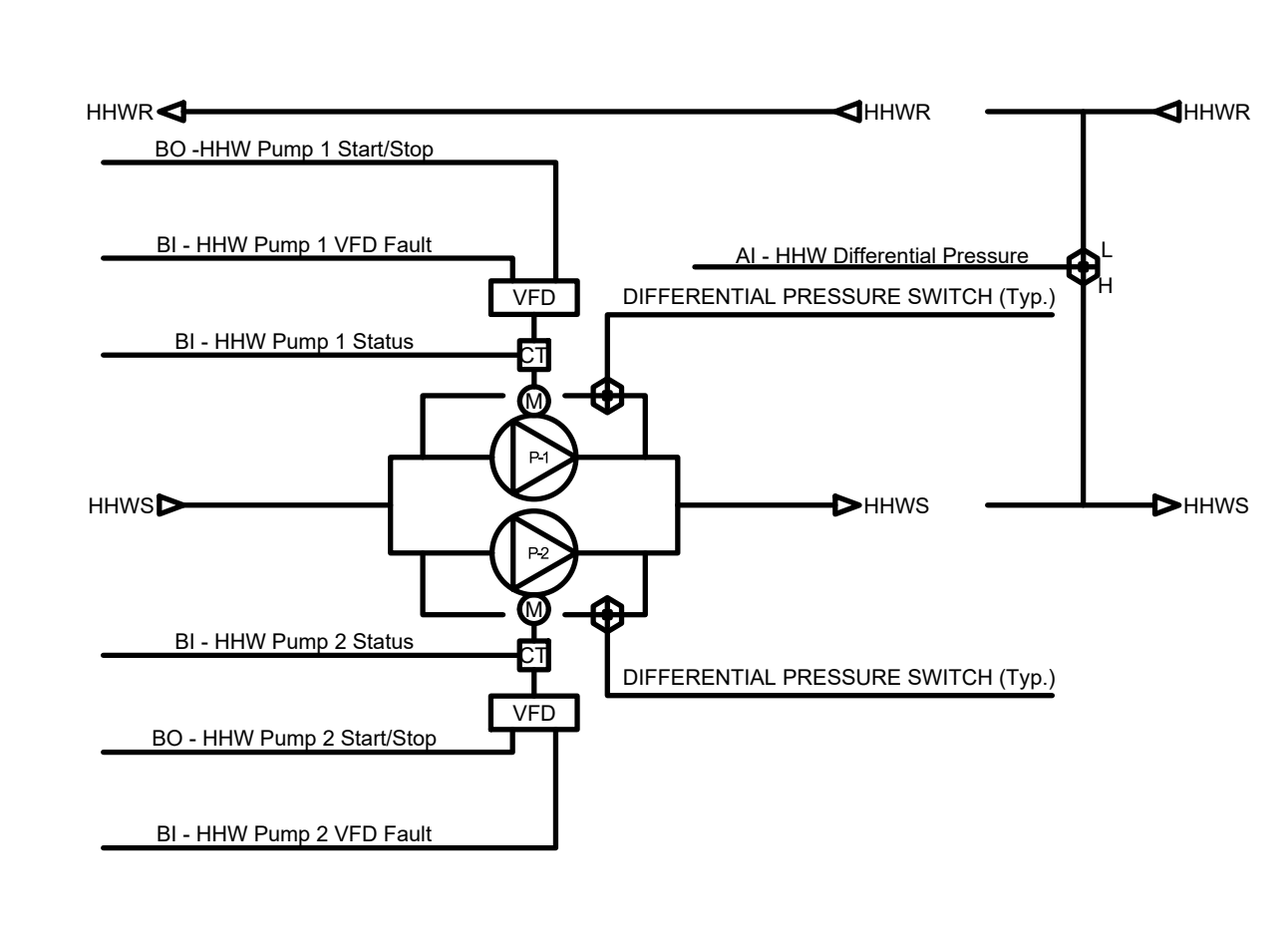
4 H502 SCALE: NOT TO SCALE ERV ATC SCHEMATIC



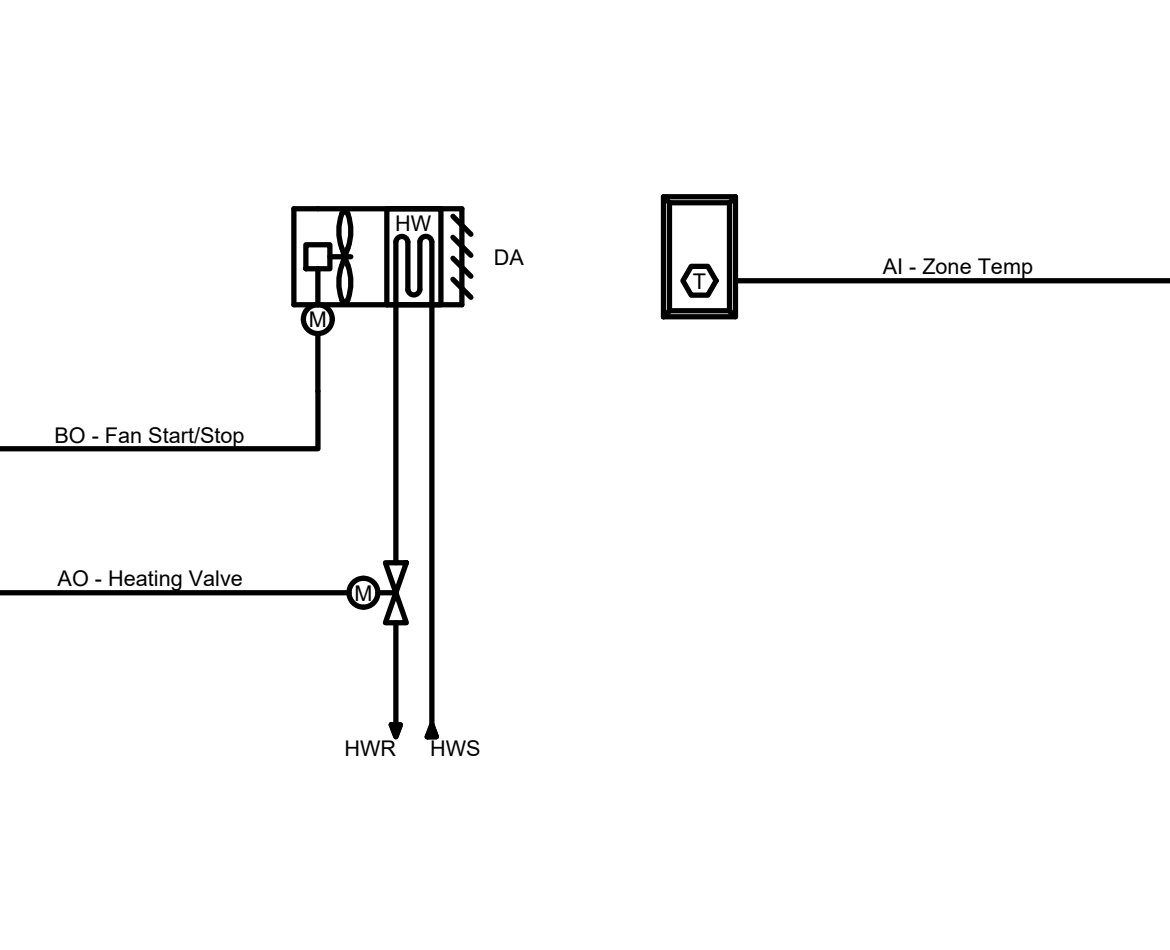
5 H502 SCALE: NOT TO SCALE SUPPLY VAV ATC SCHEMATIC



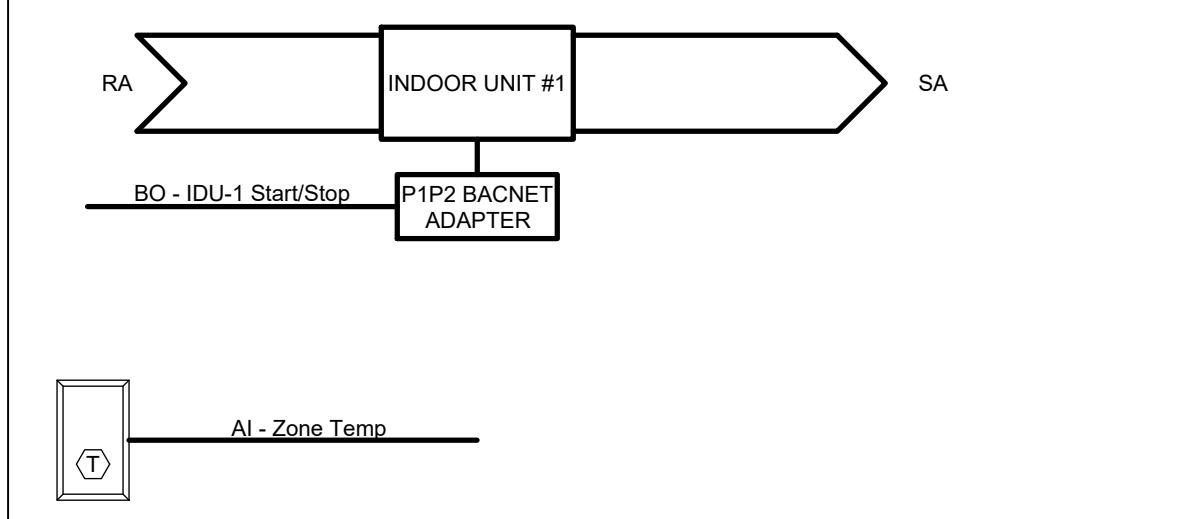
6 H502 NTS HEATING HOT WATER HEATING CONTROLS



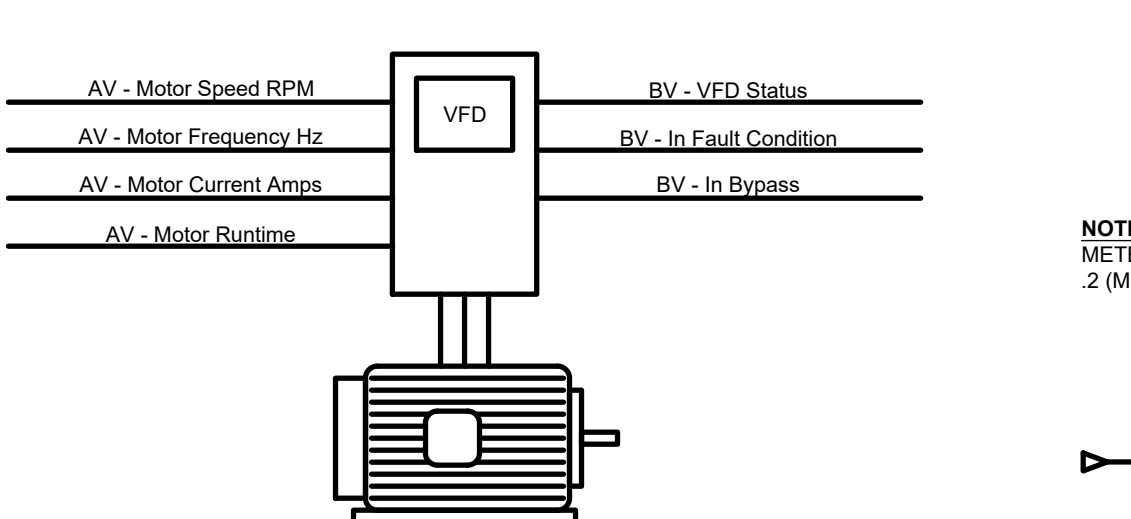
7 H502 SCALE: NONE HHW PUMP CONTROLS



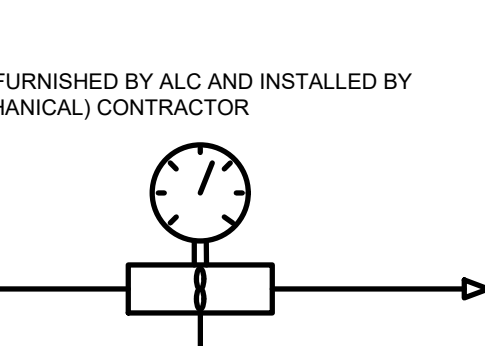
8 H502 NTS UNIT HEATER CONTROLS



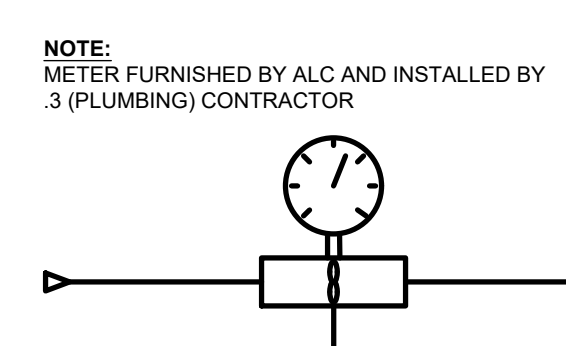
9 H502 SCALE: NOT TO SCALE MINI-SPLIT ATC SCHEMATIC



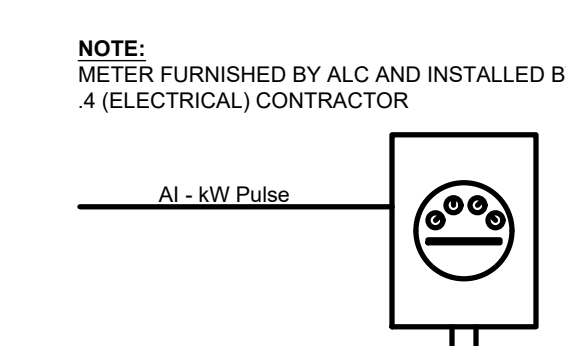
10 H502 SCALE: NTS VFD INTERFACE CONTROLS



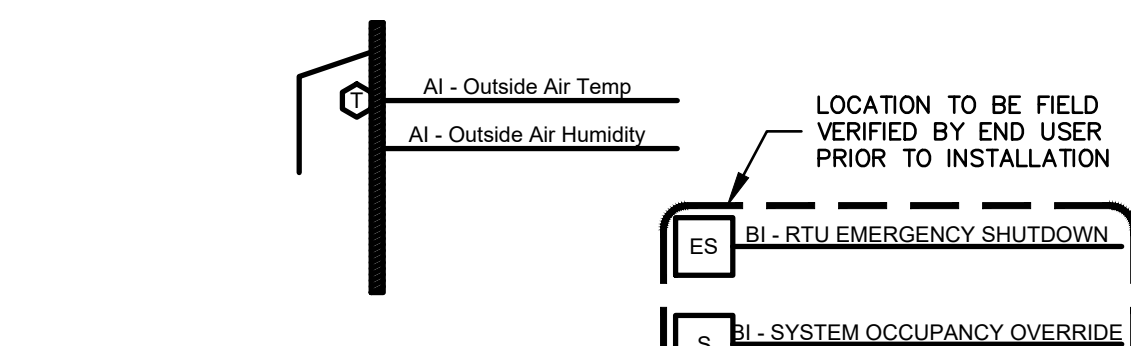
11 H502 SCALE: NTS NG METER



12 H502 SCALE: NTS DCW METER



13 H502 SCALE: NTS ELECTRIC METER



14 H502 SCALE: NTS O.A. & BUILDING CONTROLS

NOTE: METER FURNISHED BY ALC AND INSTALLED BY 2 (MECHANICAL) CONTRACTOR
 NOTE: METER FURNISHED BY ALC AND INSTALLED BY 3 (PLUMBING) CONTRACTOR
 NOTE: METER FURNISHED BY ALC AND INSTALLED BY 4 (ELECTRICAL) CONTRACTOR
 NOTE: CONTRACTOR SHALL BE AUTOMATED LOGIC CONTROLS (ALC): RANDY ROBERTSON, OUTSIDE SALES ENGINEER, 6345 FLANK DRIVE, SUITE 100, HARRISBURG, PA 17112, CELL: (717) 798-4066, RANDY.ROBERTSON@CARRIER.COM

REV	DESCRIPTION	DATE
1	REVISED	08/26/2024
2	DESIGN DEVELOPMENT	01/26/2024
3	CONSTRUCTION DOCUMENTS	07/31/2024
4	CONSTRUCTION DOCUMENTS	04/15/2024
5	DESIGN DEVELOPMENT-REVISED	02/27/2024

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 ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

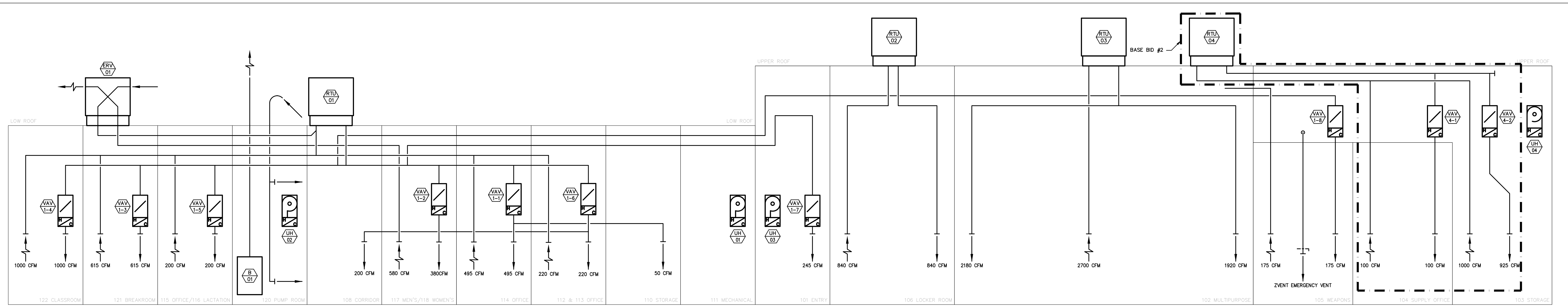
DGS PROJECT NO.
 DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

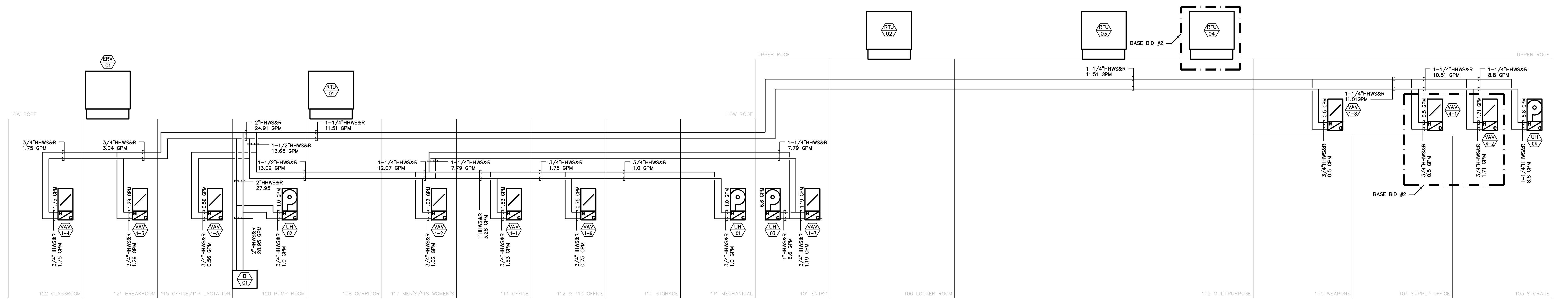
DETAILS - CONTROLS

VERIFY SCALE
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
 0 1
 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

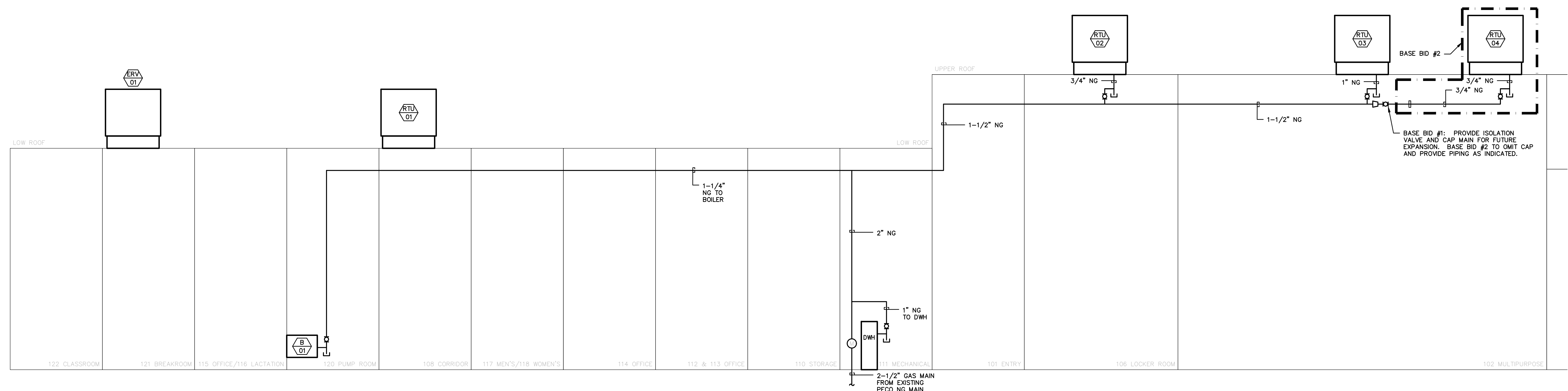
DRAWN BY	DATE	DRAWING NO.
J. LUTCHENDORF	08/26/2024	H-502
CHECKED BY	SCALE	
J. LUTCHENDORF	AS NOTED	



1 AIRFLOW DIAGRAM - NEW
H-600 SCALE: NTS



2 HYDRONIC DIAGRAM - NEW
H-600 SCALE: NTS



3 NATURAL GAS DIAGRAM - NEW
H-600 SCALE: NTS

BID SET 05/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
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D.G.S. PROJECT No.
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BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

SINGLELINE DIAGRAMS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.

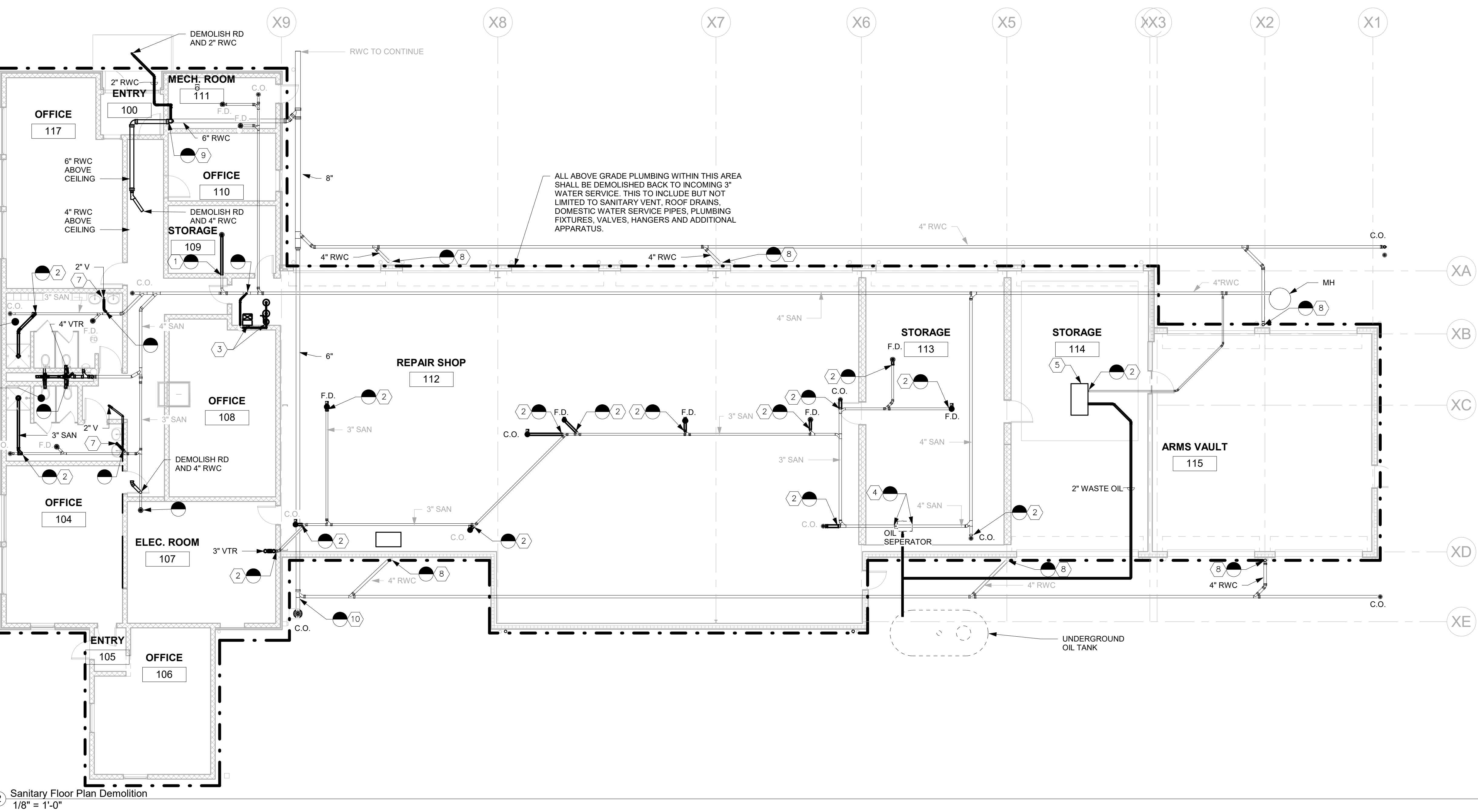
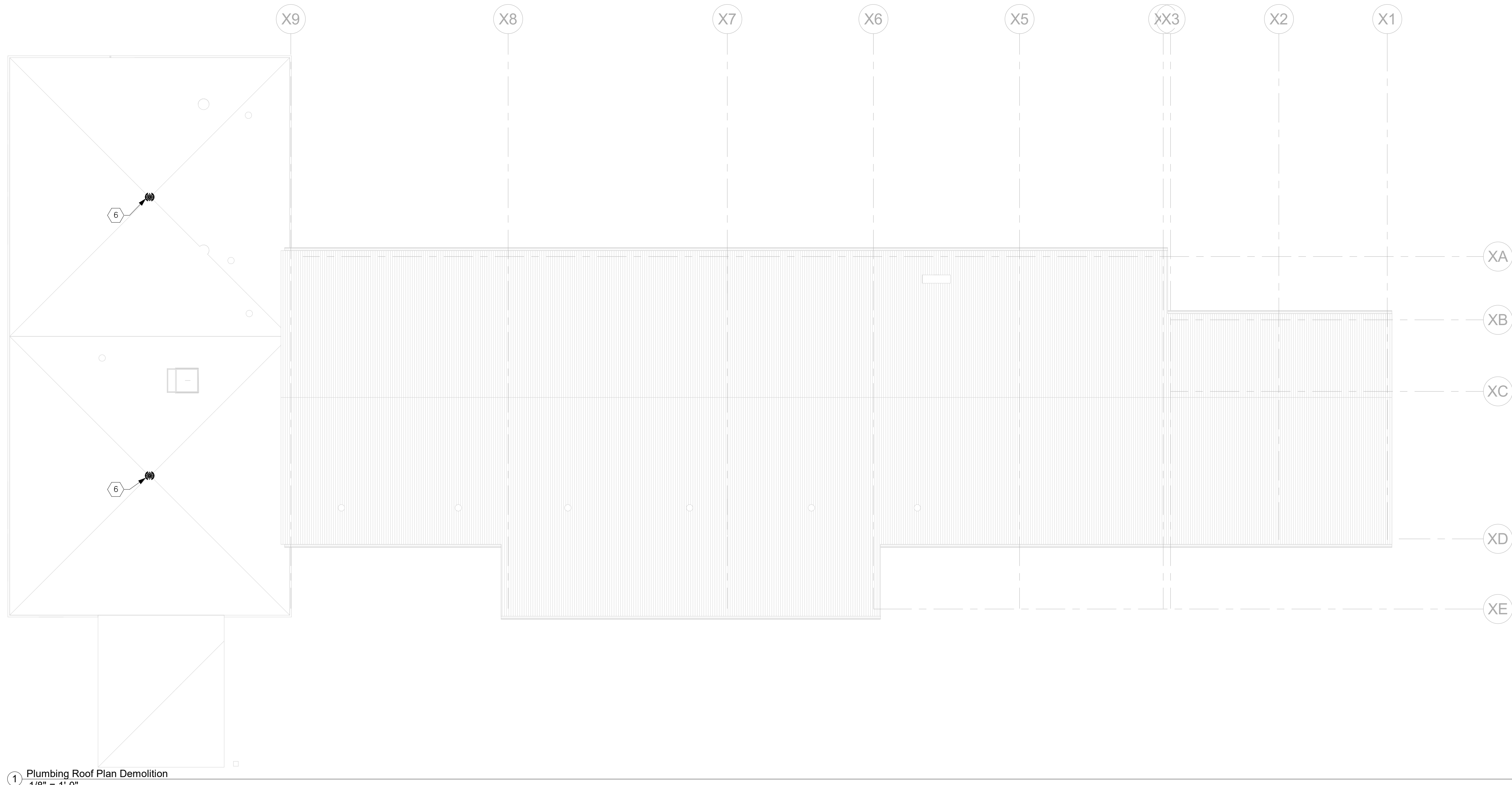
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IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY J. LUTCHENDORF	DATE 08/26/2024	DRAWING NO. H-600
CHECKED BY J. LUTCHENDORF	SCALE AS NOTED	



- GENERAL NOTE:**
- ALL SLAB DEMOLITION SHALL BE BY THE #1 CONTRACTOR AND FILL REMOVAL AND PIPING DEMOLITION BY THE #3 CONTRACTOR.
- DEMOLITION NOTES:**
- 1 ACID RESISTANT FLOOR DRAIN AND ACID NEUTRALIZING TANK TO BE DEMOLISHED AND SANITARY LINE CAPPED BACK AT MAIN FLOOR TO BE FINISHED TO MATCH EXISTING.
 - 2 CONTRACTOR TO CUT AND CAP FLOOR DRAIN/ CLEAN OUT. SEAL SANITARY MAIN AND FINISH FLOOR TO MATCH EXISTING.
 - 3 EYE WASH AND WATER COOLER TO BE DEMOLISHED. CUT SANITARY BACK TO MAIN AND CAP.
 - 4 OIL SEPARATOR AND UNDERGROUND TANK TO BE DEMOLISHED IN THEIR ENTIRETY. REPLACE SEPARATOR SECTION OF SANITARY WITH EQUIVALENT PIPE. SEDIMENT DRAIN TO BE DEMOLISHED.
 - 5 SEDIMENT DRAIN TO BE DEMOLISHED.
 - 6 ROOF DRAIN TO BE DEMOLISHED.
 - 7 TO SINKS TO BE DEMOLISHED.
 - 8 DEMOLISH EXISTING RWC AND CAST IRON BOOT BELOW GRADE AS REQUIRED TO FACILITATE INSTALLATION OF NEW EXTERIOR WALL MATERIALS AND INSTALL NEW BOOT PROUD OF THE NEW MATERIAL.
 - 9 DEMOLISH EXISTING RWC BACK TO ABOVE FINISHED FLOOR AND READY FOR NEW CONNECTION AND TRANSITION TO NEW RWC.
 - 10 DEMOLISH EXISTING C.O. AND READY FOR PIPING FOR EXTENSION AS INDICATED ON NEW WORK PLANS.

R/D SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
C/CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
C/CONSTRUCTION DOCUMENTS 04/15/2024	
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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

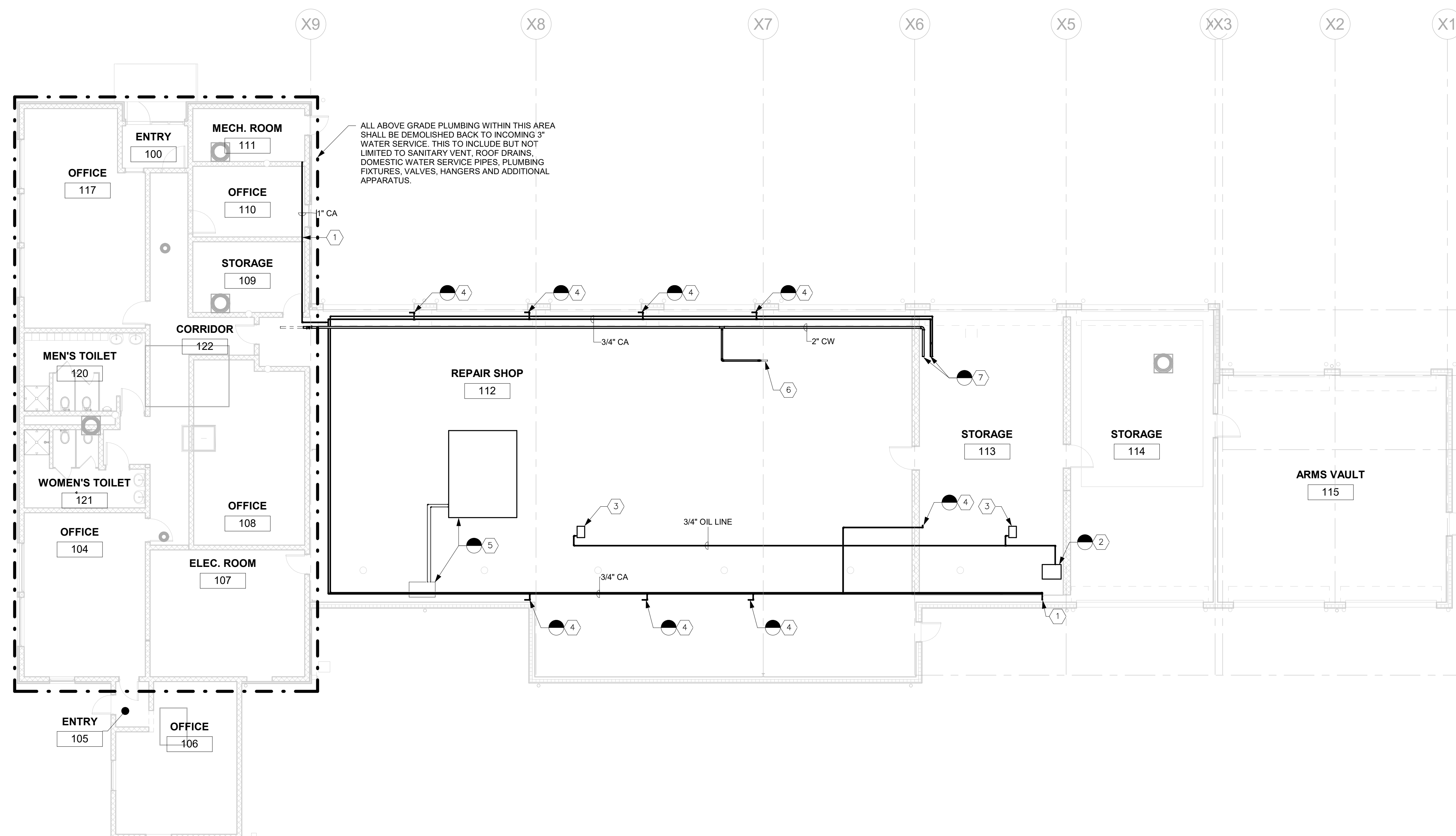
D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

SANITARY DEMOLITION PLANS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
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	CHECKED BY JBL	SCALE	



- GENERAL NOTE:**
 -ALL SLAB PATCHING AND FINAL INFILL AND LEVELING SHALL BE BY THE 1 CONTRACTOR AND PIPE INSTALLATION AND GENERAL BACKFILL BY THE 3 CONTRACTOR.
- DEMOLITION NOTES:**
- 1 COMPRESSED AIR LINE AND ASSOCIATED APPARATUS TO BE DEMOLISHED IN ITS ENTIRETY.
 - 2 CHASSIS LUBE DISPENSER AND ASSOCIATED PIPING AND APPARATUS TO BE DEMOLISHED IN ITS ENTIRETY.
 - 3 GREASE REEL AND ASSOCIATED HOSE TO BE DEMOLISHED.
 - 4 AIR SERVICE OUTLET TO BE DEMOLISHED.
 - 5 HYDRAULIC LIFT PUMP, PIPING AND HYDRAULIC APPARATUS TO BE DEMOLISHED IN ITS ENTIRETY. FLOOR TO BE FILLED AND FINISHED TO MATCH EXISTING.
 - 6 DEMOLISH 3/4" CW DN TO HOSE BIBB TO BE DEMOLISHED.
 - 7 CW HOSE BIBB AND COMPRESSED AIR LINE TO BE DEMOLISHED IN ITS ENTIRETY.

1 Plumbing Piping Floor Plan Demolition
 1/8" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/26/2024	

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COMMONWEALTH OF PENNSYLVANIA
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 HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
 DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

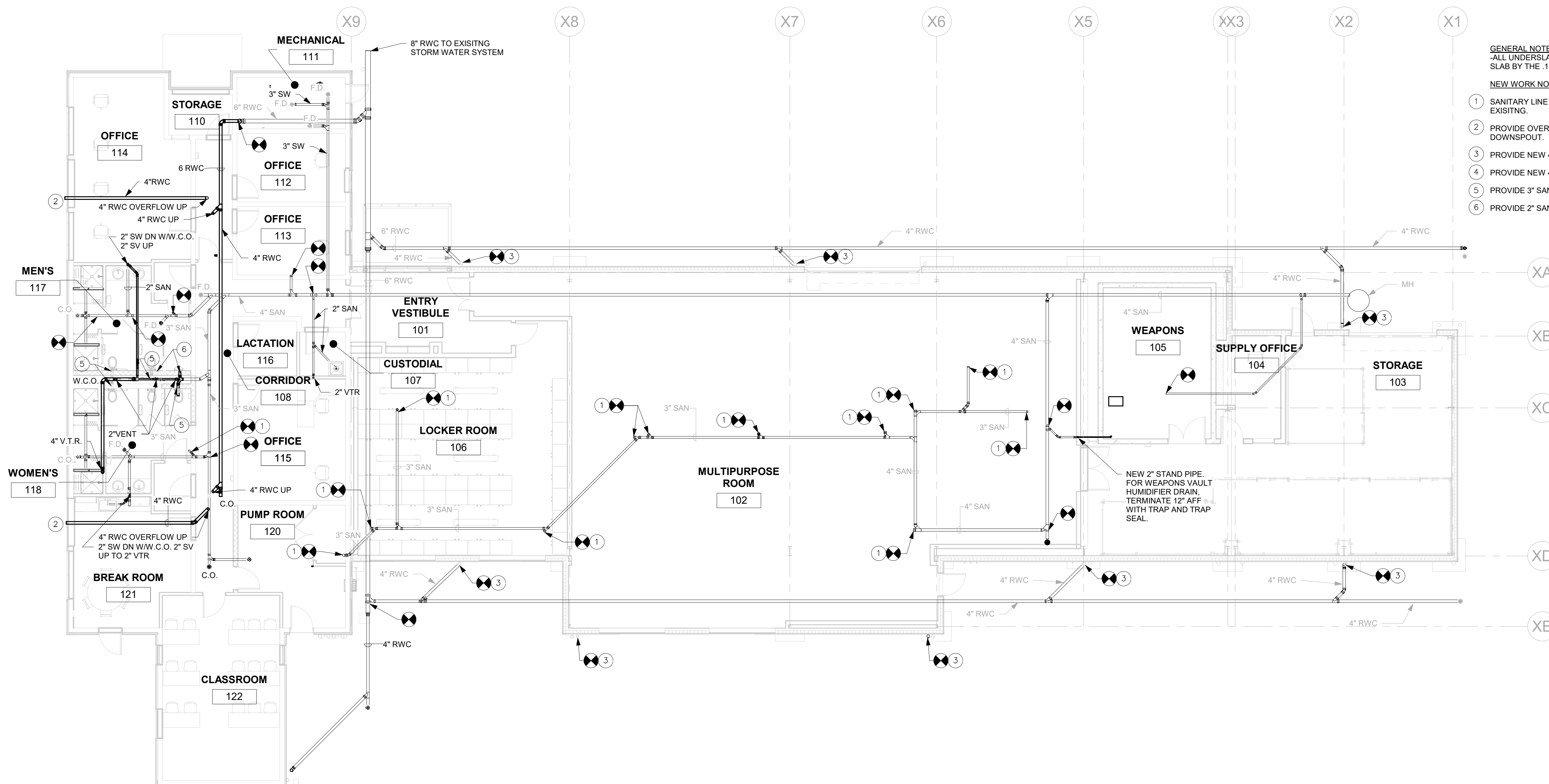
PLUMBING PIPING DEMOLITION

VERIFY SCALE
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	CHECKED BY JBL	SCALE	



1 Sanitary Roof Plan NEW WORK
1/8" = 1'-0"



2 Sanitary Floor Plan New Work
1/8" = 1'-0"

GENERAL NOTES:
-ALL UNDERSLAB PIPING AND BACKFILL TO BE BY THE 3 CONTRACTOR AND NEW SLAB BY THE 1 CONTRACTOR.

NEW WORK NOTES:

- 1 SANITARY LINE CAPPED BACK AT MAIN FLOOR TO BE FINISHED TO MATCH EXISTING.
- 2 PROVIDE OVERFLOW RAIN WATER COLLECTION PIPE TO SIDE OF BUILDING WITH DOWNSPOUT.
- 3 PROVIDE NEW 4" DOWNSPOUT, CONNECT AND TRANSITION TO EXISTING RWC.
- 4 PROVIDE NEW 4" ROOF DRAIN AND OVERFLOW DRAIN.
- 5 PROVIDE 3" SANITARY CONNECTION TO W.C. WITH CHAIR CARRIER.
- 6 PROVIDE 2" SANITARY CONNECTION TO URINAL WITH CHAIR CARRIER.

REV SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
C CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
G CONSTRUCTION DOCUMENTS 04/15/2024	
H DESIGN DEVELOPMENT-REVISED 02/26/2024	

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ZIMMERMAN **STUDIO** LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

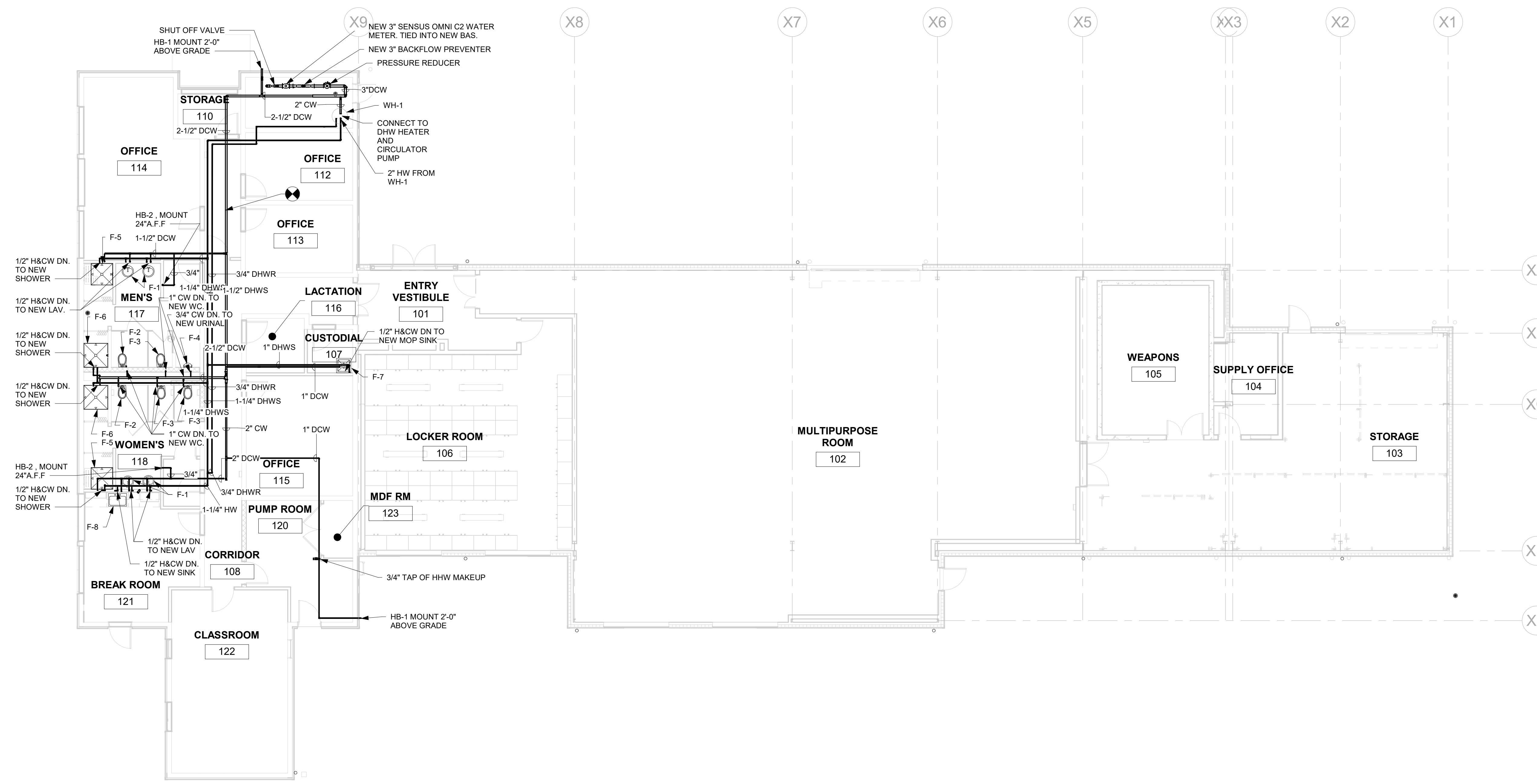
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

SANITARY NEW WORK PLANS

VERIFY SCALE
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DRAWN BY ATL	DATE 08/26/24	DRAWING No. P-100
CHECKED BY JBL	SCALE	



1 Plumbing Piping Floor Plan New Work
1/8" = 1'-0"

REV SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/26/2024	

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SIGNATURE DATE

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

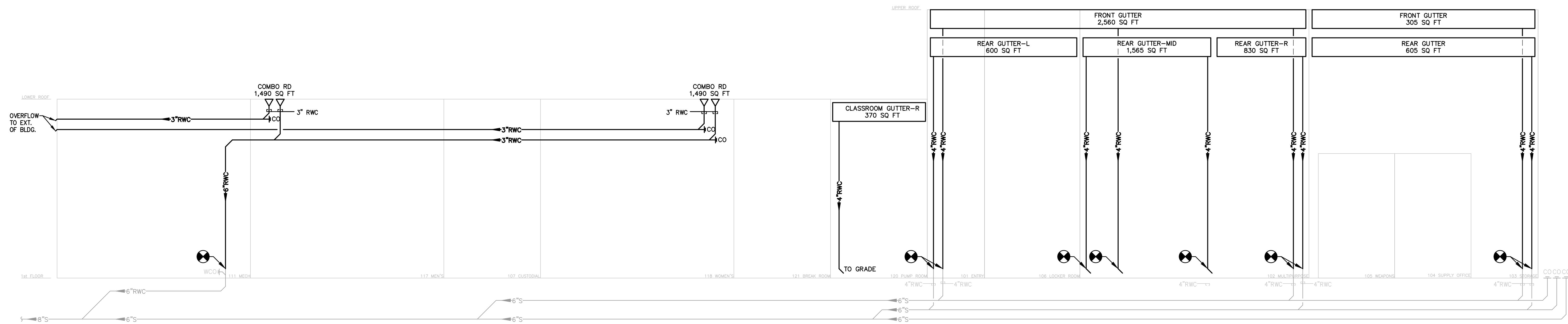
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

PLUMBING PIPING NEW WORK

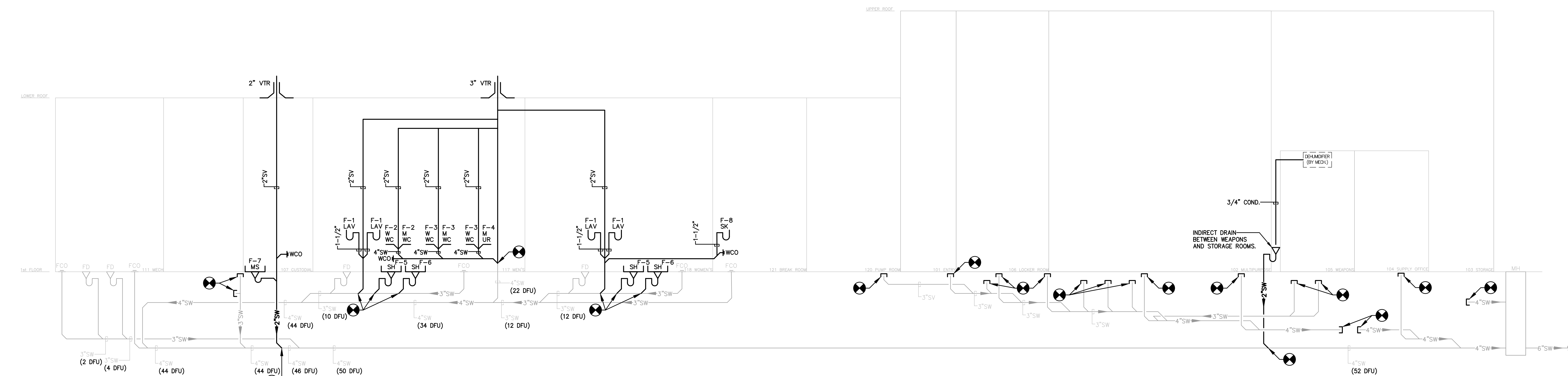
VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY ATL	DATE 08/26/24	DRAWING No. P-101
CHECKED BY JBL	SCALE	



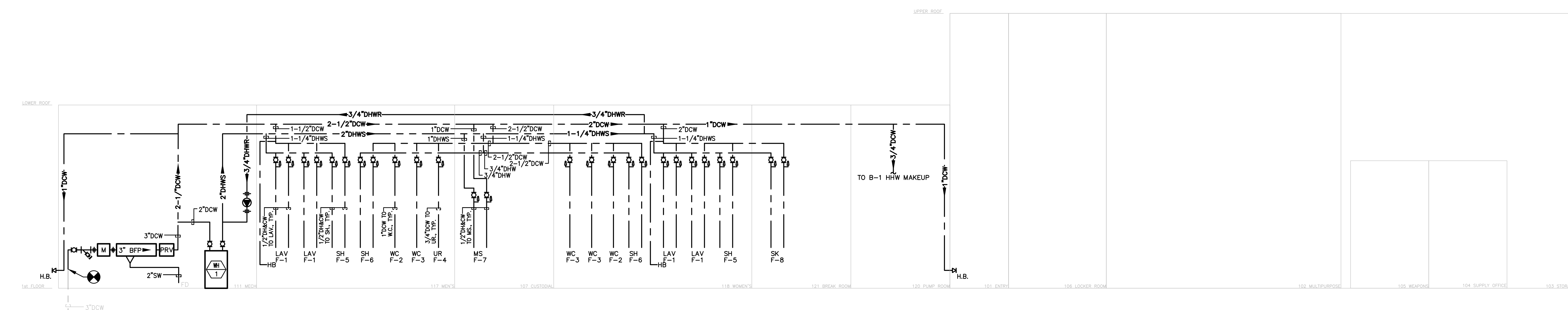
1 PLUMBING STORM SINGLELINE - NEW

P-600 SCALE: NTS



2 PLUMBING SANITARY SINGLELINE - NEW

P-600 SCALE: NTS



3 PLUMBING WATER SINGLELINE - NEW

P-600 SCALE: NTS

BID SET	05/26/2024	DESIGN DEVELOPMENT	01/26/2024
CONSTRUCTION DOCUMENTS	07/11/2024	REVISED	
CONSTRUCTION DOCUMENTS	04/15/2024		
DESIGN DEVELOPMENT-REVISED	02/27/2024		

RECORD REVISIONS
Construction Document - August 28, 2024



SIGNATURE DATE

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

SINGLELINE DIAGRAMS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
J. LUTCHENDORF	08/26/2024	P-600
CHECKED BY	SCALE	
J. LUTCHENDORF	AS NOTED	

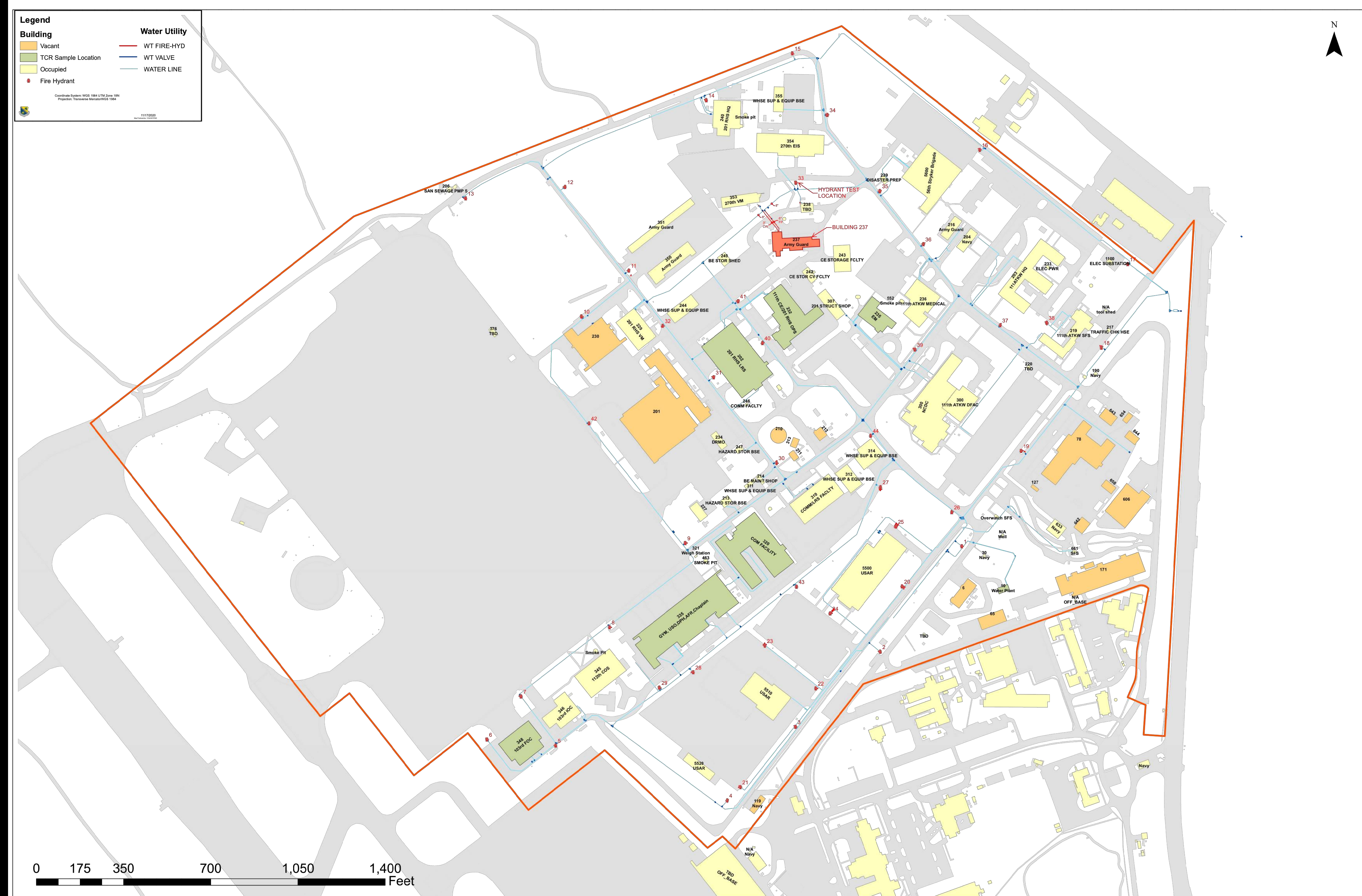
LEGEND:

	EXTENT OF DEMOLITION
	POINT OF CONNECTION BETWEEN NEW WORK AND EXISTING WORK
	EXISTING WORK TO REMAIN
	NEW WORK OR EXISTING WORK TO BE DEMOLISHED
	DEMOLITION NOTE
	NEW WORK NOTE
	ROOM NUMBER OR AREA DESIGNATION
	CONCEALED PENDENT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	VERTICAL SIDEWALL SPRINKLER HEAD

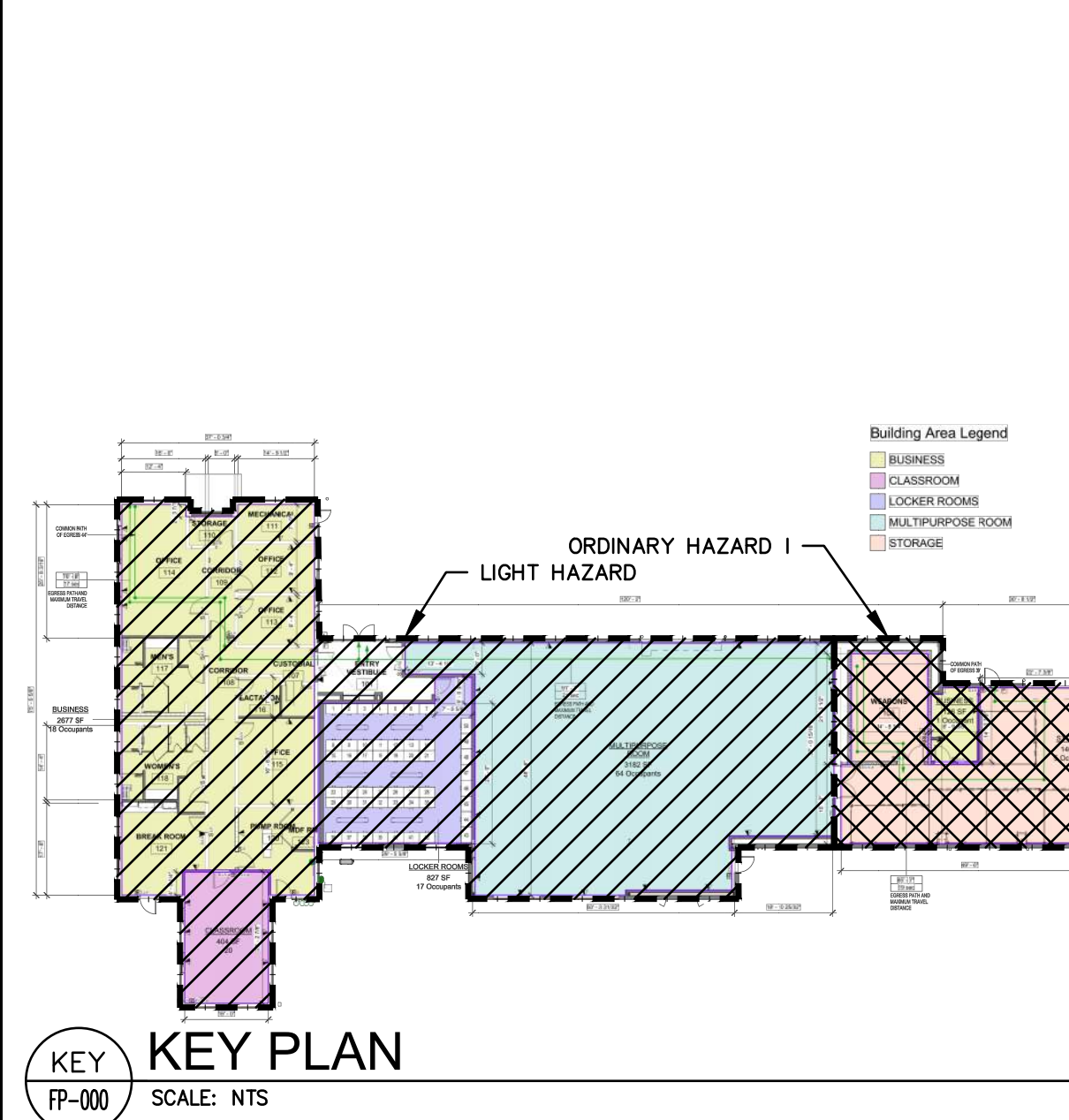
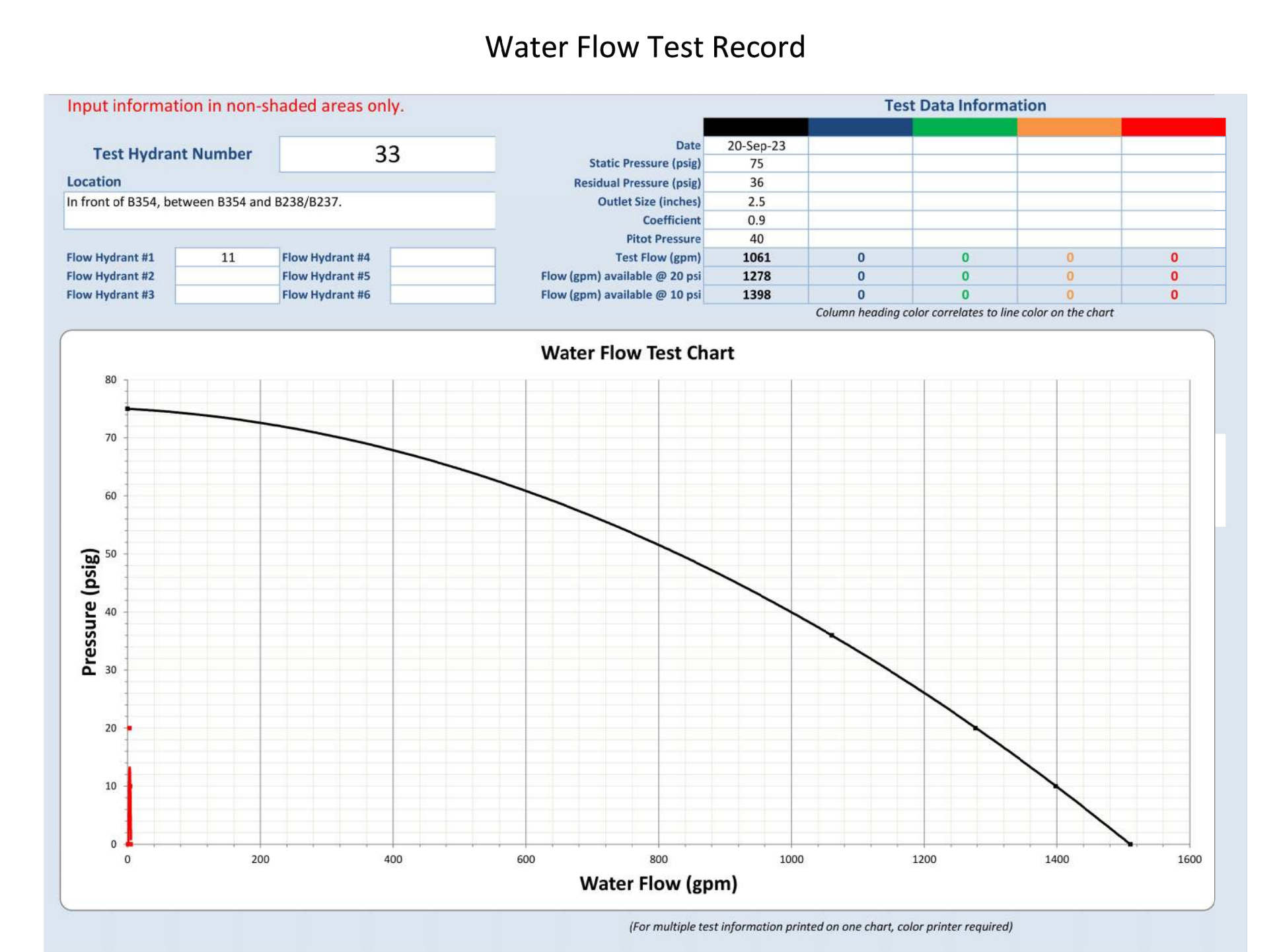
ABBREVIATIONS:

AD	ACCESS DOOR	M.C.	MECHANICAL CONTRACTOR
A/P	ACCESS PANEL	MIN.	MINIMUM
C	CONDUIT	N.C.	NORMALLY CLOSED
CL	CENTER LINE ELEVATION	N.O.	NORMALLY OPEN
CV	CONTROL VALVE ASSEMBLY	PRV	PRESSURE REDUCING VALVE
D	DEEP	PSI	POUNDS PER SQUARE INCH
DCVA	DOUBLE CHECK VALVE ASSEMBLY	P	PUMP
DN	DOWN	RBF	RUN BELOW FLOOR
DSP	DRY STANDPIPE	RAC	RUN ABOVE CEILING
(E)	EXISTING	RAF	RUN ABOVE FLOOR
EL	ELEVATION	RE	REMOVE EXISTING
FS	FLOW SWITCH	SCH.	SCHEDULE
FD	FLOOR DRAIN OR FIRE DAMPER	SS	STAINLESS STEEL
FDC	FIRE DEPARTMENT CONNECTION	STD	STANDARD
FP	FIRE PROTECTION	T.S.	TAMPER SWITCH
FFP	FIRE PROTECTION PIPING	THK.	THICK
HB	HOSE BIBB	TYP.	TYPICAL
L	LONG	V.V.	VALVE
MTD	MOUNTED	W/J	WITH
		WSP	WET STANDPIPE
		W	WIDE
		WT	WEIGHT

- GENERAL NOTES:**
- PROVIDE A HYDRAULICALLY CALCULATED WET-PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST ISSUE OF NFPA 13, ALL APPLICABLE NFPA STANDARDS, INTERNATIONAL FIRE CODE, INTERNATIONAL BUILDING CODE, PENNSYLVANIA CODES AND REQUIREMENTS.
 - REFER TO SPECIFICATION SECTIONS FOR ACCEPTABLE PIPING MATERIALS, SPRINKLER, HEADS, VALVES AND ACCESSORIES.
 - SPRINKLER DATA:
 - USE: OFFICE
 - DENSITY: 0.10 GPM/SQ. FT.
 - REMOTE AREA: 1,500 SQ. FT.
 - HAZARD CATEGORY: LIGHT HAZARD
 - HOSE DEMAND: 100 GPM FOR 30 MIN.
 - MIN. K-FACTOR: 5.6
 - MOST REMOTE HEAD MIN. PRESSURE: 7 PSI
 - HEAD TYPE: QUICK RESPONSE (QR)
 - SYSTEM TYPE: WET SPRINKLER SYSTEM - CLASS I AUTOMATIC
 - ALL PIPING SHALL BE RUN CONCEALED ABOVE NEW CEILINGS WHERE APPLICABLE. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH ALL OTHER TRADES. PROVIDE RETURN BENDS AND OFFSETS AS REQUIRED TO ACCOMMODATE ALL DUCTWORK, PIPING, CONDUITS, CABLE TRAYS, LIGHTING FIXTURES, BEAMS, AND SIMILAR OBSTRUCTIONS.
 - HEAD LAYOUT INDICATED IS FOR CONTRACTOR'S REFERENCE ONLY AND MAY NOT BE THE MOST HYDRAULICALLY EFFICIENT DESIGN. THE CONTRACTOR MAY REVISE THE DESIGN INDICATED PROVIDED THE NEW DESIGN FOLLOWS THE GUIDELINES REFERENCED IN NOTE #1. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL CEILING PLANS AND SHALL LOCATE FUTURE SPRINKLER HEADS AS INDICATED. CENTERED IN CEILING TILES, SHOULD THE SPRINKLER LAYOUT MEET THE CODES REFERENCED ABOVE.
 - PROVIDE COORDINATION DRAWINGS FOR APPROVAL IN COORDINATION WITH ALL OTHER CONTRACTORS AND RCP, IF APPLICABLE, PRIOR TO SUBMISSION OF SPRINKLER LAYOUT AND DESIGN. ONCE COORDINATION DRAWINGS ARE APPROVED CONTRACTOR SHALL SUBMIT LAYOUT AND DESIGN.
 - CONTRACTOR SHALL NOT BEGIN WORK WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT/ENGINEER, FM, AND LOCAL FIRE MARSHALL.
 - PROVIDE SPRINKLERS REQUIRED UNDER ALL OBSTRUCTIONS OVER 48 INCHES WIDE. COORDINATE LOCATION WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE, AND REINSTALLATION OF CEILING AS REQUIRED TO FULFILL SCOPE OF WORK AS OUTLINED HEREIN. WHERE ANY DAMAGE OCCURS TO THE EXISTING CEILING, THE CONTRACTOR SHALL REPLACE IN KIND AT THEIR OWN COSTS.
 - GEN. CONTRACTOR IS RESPONSIBLE FOR AREA PROTECTION FOR ALL FURNITURE, FLOORS, WALLS, CEILINGS, DOORS, GLASS, AND ALL OTHER ARCHITECTURAL/AESTHETIC ITEMS AS REQUIRED TO FULFILL THE SCOPE OF WORK OUTLINED HEREIN. WHERE ANY DAMAGE OCCURS, THE CONTRACTOR SHALL REPLACE IN KIND AT THEIR OWN COSTS.
 - MOST RECENT FLOW TEST WAS PERFORMED ON 9/20/2023 AT HYDRANT #33. STATIC PRESSURE-75 PSIG. RESIDUAL PRESSURE-36 PSIG. TEST FLOW-1061 GPM. FLOW AVAILABLE AT 20 PSI-1278 GPM. FLOW AVAILABLE AT 10 PSI-1398 GPM. RESULTS CAN BE OBTAINED FROM THE OWNER UPON REQUEST.
 - CONTRACTOR SHALL HAVE FIRE PROTECTION WATER FLOW TEST CONDUCTED PRIOR TO NEW WORK.
 - ALL NEW FIRE PROTECTION CONTROL VALVES SHALL BE INSTALLED AT A LOCATION PROVIDING EASY ACCESS AND OPERATION FROM FLOOR LEVEL WITHOUT THE USE OF LADDER OR OTHER DEVICE (MAX. 7 FEET TO TOP OF OPERATING HANDLES.) VALVES SHALL BE ORIENTED TO ALLOW EASY VIEWING OF SIGHT GLASS, OPERATING INSTRUCTIONS, "OPEN/CLOSE" INDICATORS, ETC. FOR REQUIRED TESTING/INSPECTION/MAINTENANCE.
 - ALL NEW VALVES MUST BE ELECTRONICALLY MONITORED AND SECURED IN ACCORDANCE WITH OPP FIRE PROTECTION TECHNICIAN LOCKS.
 - ALL NEW FIRE PROTECTION CONTROL VALVES SHALL BE INSTALLED AT A LOCATION PROVIDING EASY ACCESS AND OPERATION FROM FLOOR LEVEL WITHOUT THE USE OF LADDER OR OTHER DEVICE (MAX. 7 FT TO TOP OF OPERATING HANDLES.) VALVES SHALL BE ORIENTED TO ALLOW EASY VIEWING OF SIGHT GLASS, OPERATING INSTRUCTIONS, "OPEN/CLOSE" INDICATORS ETC. FOR REQUIRED TESTING/INSPECTION/MAINTENANCE.
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SITE PLAN - WATER SERVICE AND HYDRANT LOCATIONS
SCALE: NTS



RD SET	05/26/2024	DESIGN DEVELOPMENT	01/26/2024
CONSTRUCTION DOCUMENTS	12/21/2024	REVISED	
CONSTRUCTION DOCUMENTS	04/15/2024		
DESIGN DEVELOPMENT-REVISED	02/27/2024		

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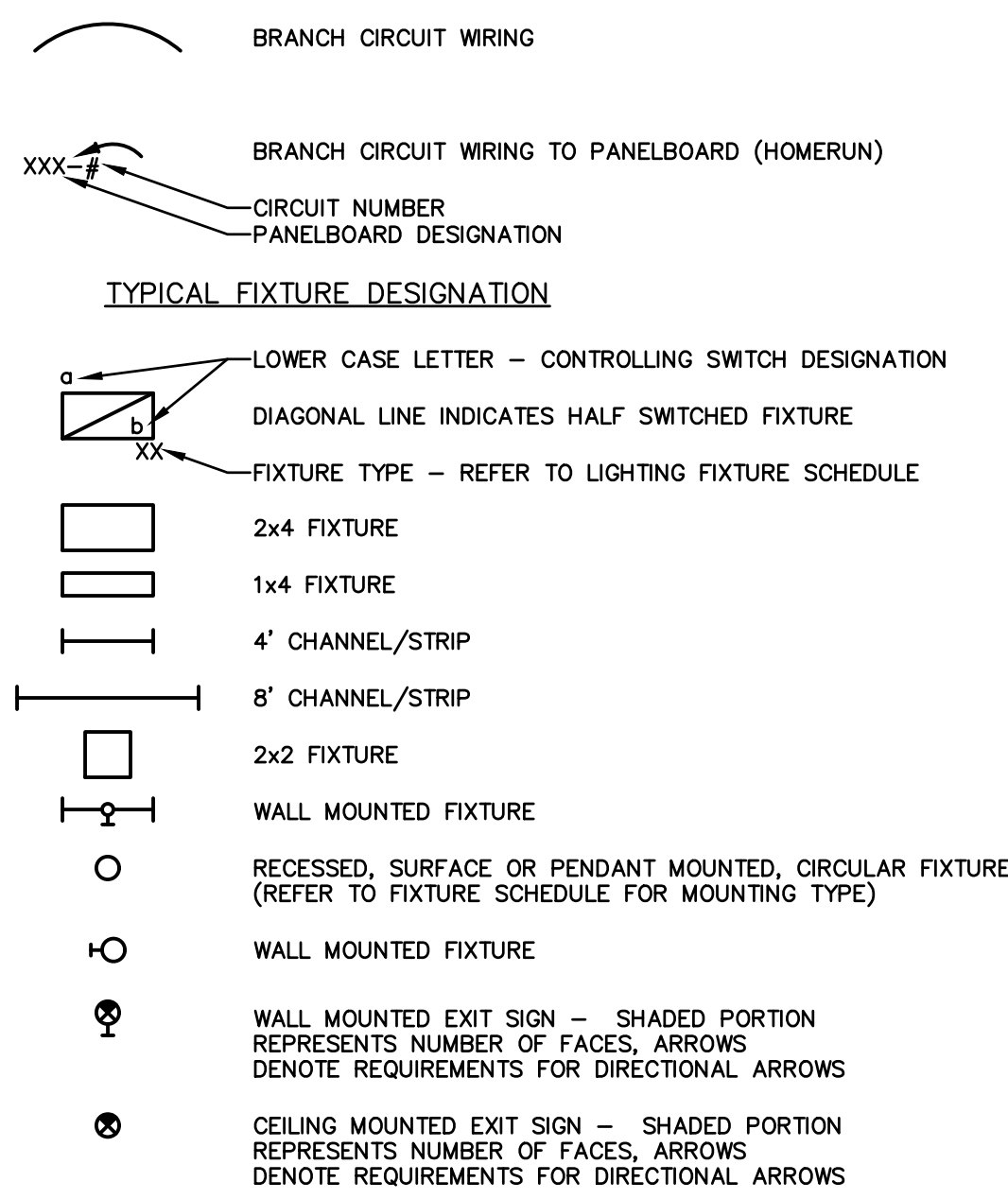
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LEGENDS, ABBREVIATIONS & FLOW TEST

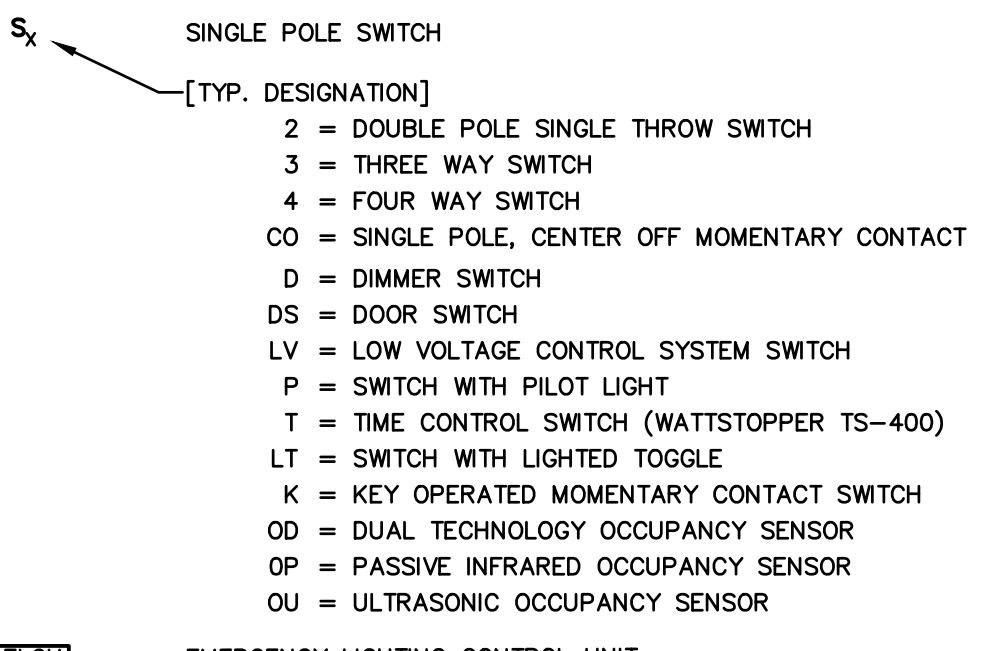
VERIFIED SCALE	DATE	DRAWING No.
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWINGS	08/26/2024	FP-000
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	SCALE	AS NOTED
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS	CHECKED BY	
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	J. LUTCHENDORF	

LEGENDS AND ABBREVIATIONS

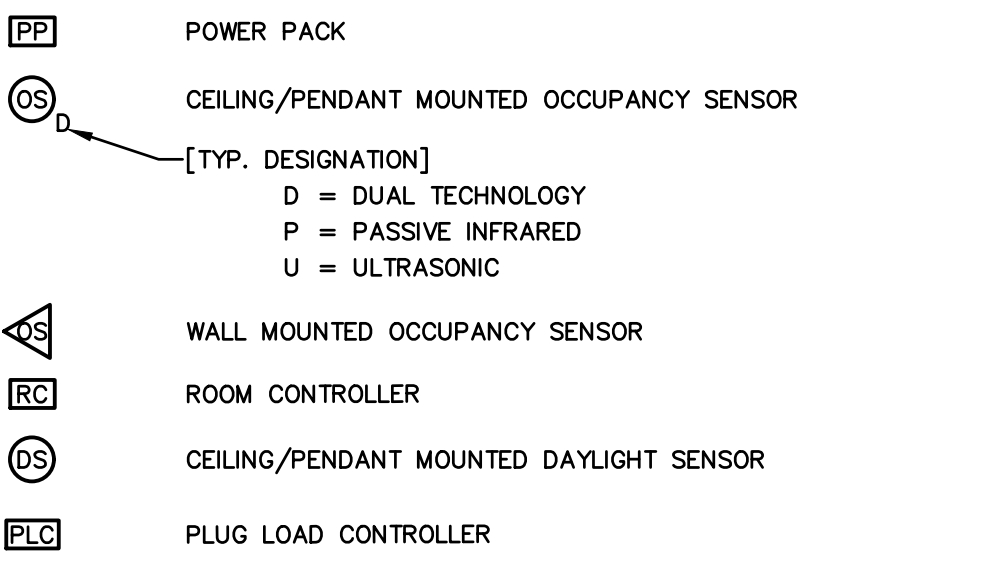
TYPICAL WIRING



GENERAL SWITCHING NOTE:
LOWER CASE LETTER ADJACENT TO SWITCH IDENTIFIES CONTROLLED FIXTURES

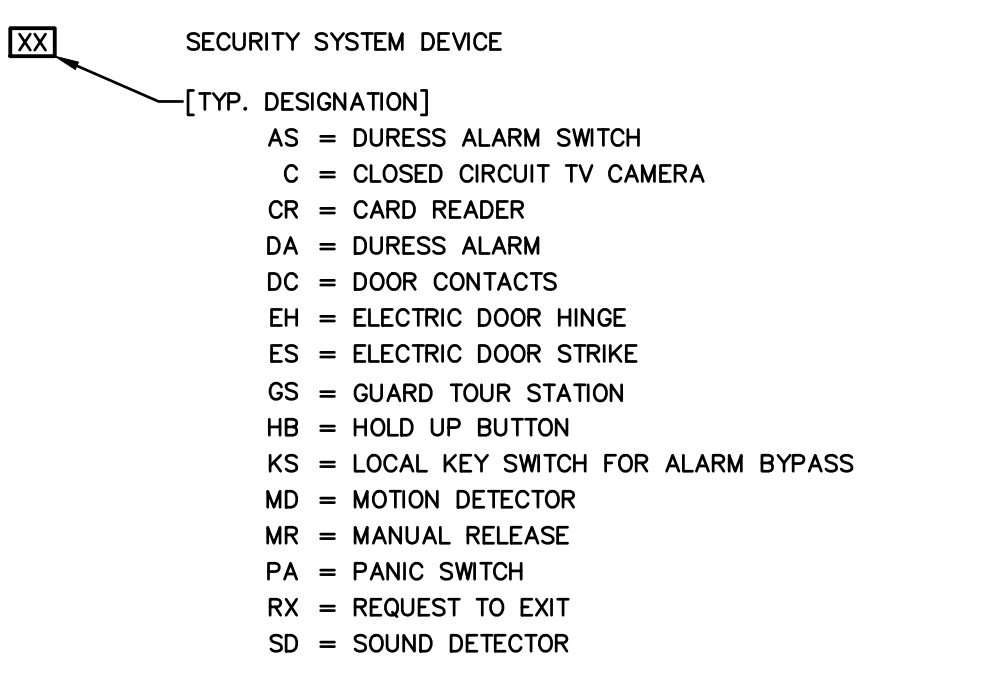


OCCUPANCY SENSORS



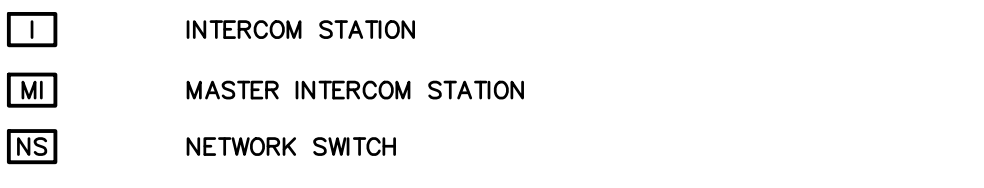
TYPICAL SECURITY DEVICE DESIGNATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RACEWAY AND JUNCTION BOXES ONLY. SECURITY DEVICES AND WIRING BY THE SECURITY INSTALLER. FOR EACH TYPE OF SECURITY DEVICE, PROVIDE A UNIVERSITY APPROVED FLUSH MOUNTED OUTLET BOX (COORDINATE EXACT TYPE WITH SECURITY SYSTEM SUPPLIER) AND A 1" CONDUIT WITH PULL LINE FROM THE DEVICE TO THE SECURITY JUNCTION BOX.



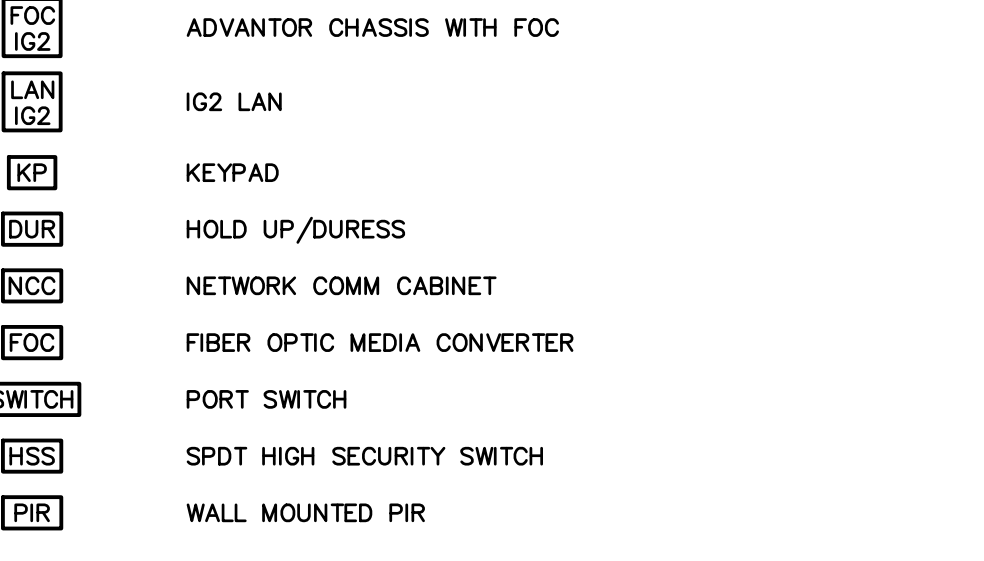
TYPICAL INTERCOM DESIGNATION

PROVIDE A FULLY FUNCTIONAL INTERCOM SYSTEM SO THAT THE RECEPTIONIST CAN ALLOW ENTRY TO VISITORS. SYSTEMS SHALL BE INSTALLED AND WIRED PER MANUFACTURERS REQUIREMENTS. ALL WIRING SHALL BE IN CONDUIT.

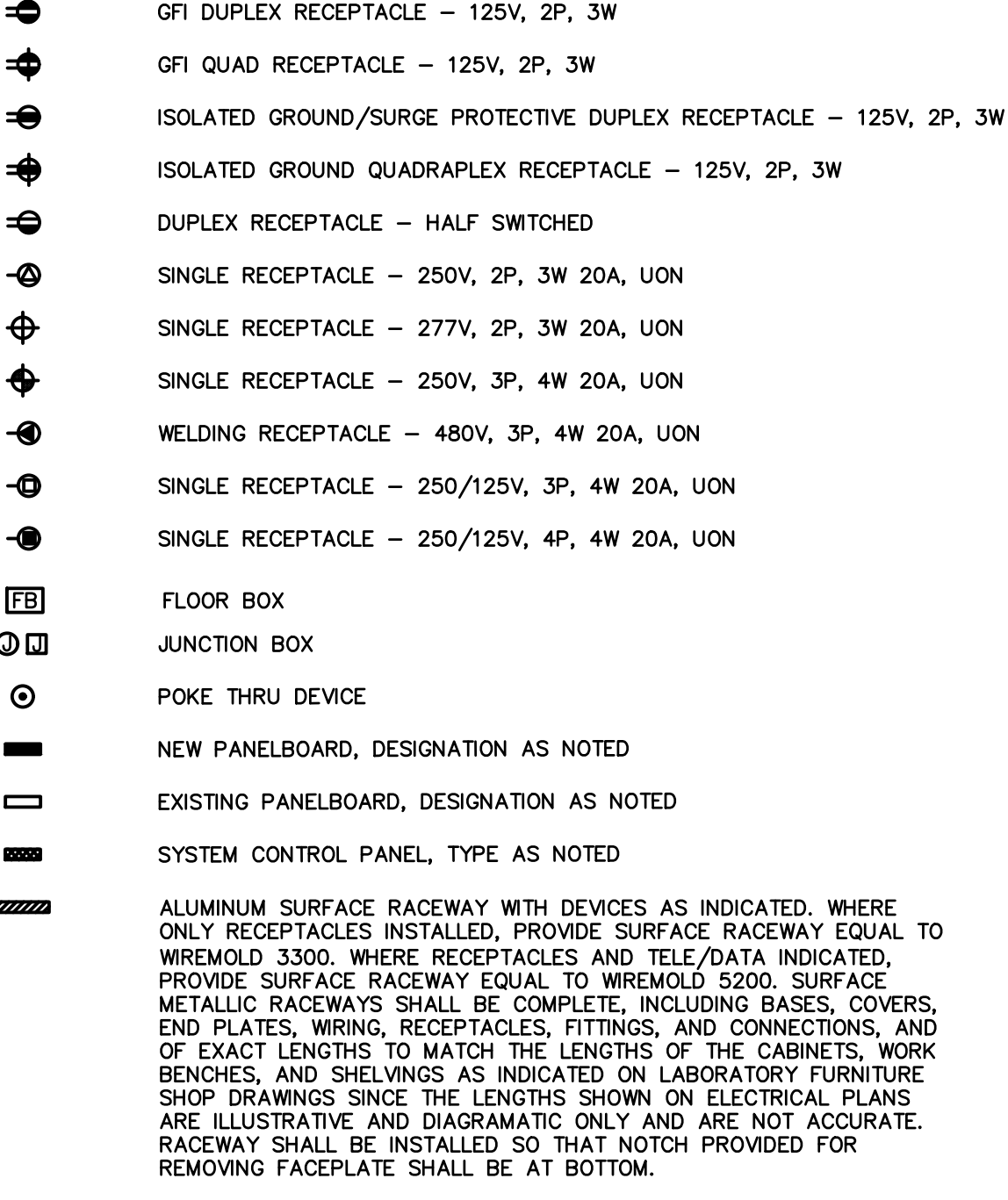
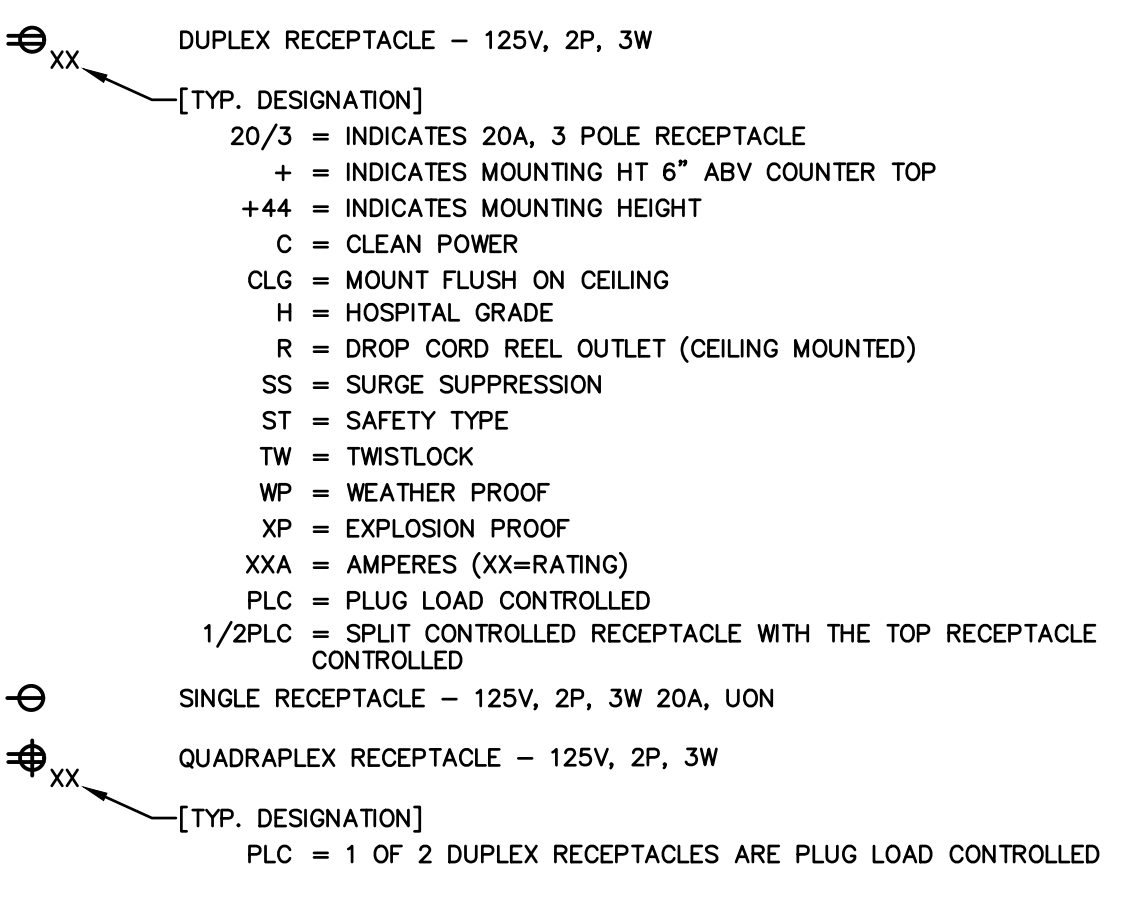


TYPICAL INTRUSION DETECTION (IDS) DESIGNATION

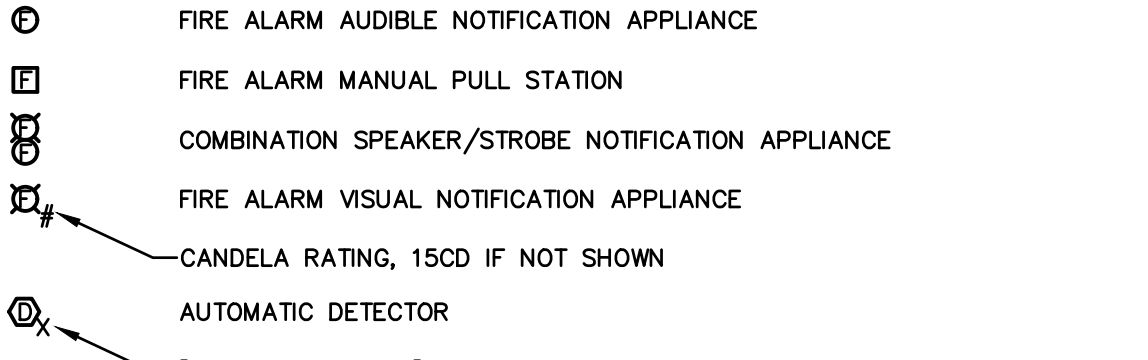
PROVIDE A FULLY FUNCTIONAL INTRUSION DETECTION SYSTEM FOR THE WEAPONS VAULT. SYSTEMS SHALL BE INSTALLED AND WIRED PER MANUFACTURERS REQUIREMENTS. ALL WIRING SHALL BE IN CONDUIT.



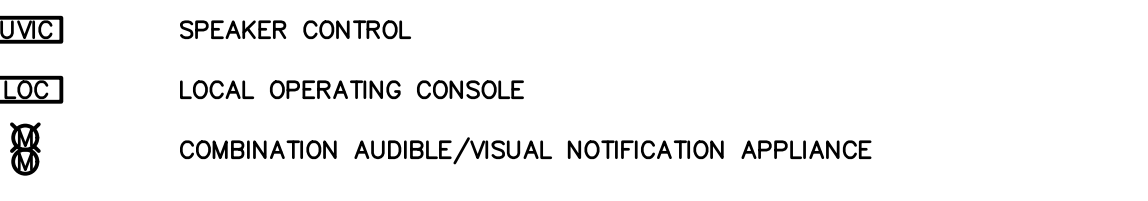
TYPICAL POWER DESIGNATION



TYPICAL FIRE ALARM DESIGNATION

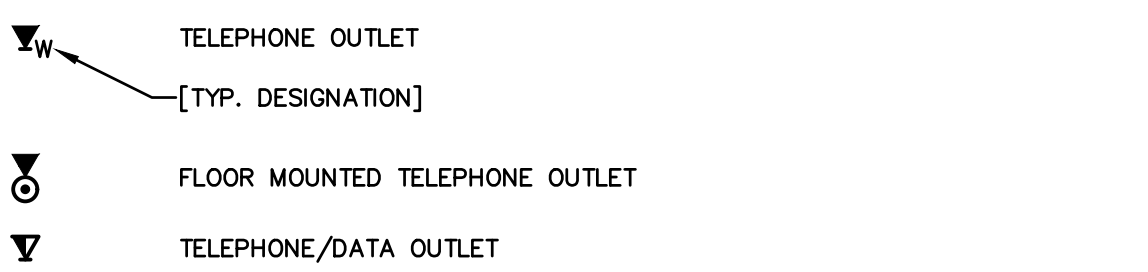


TYPICAL MASS NOTIFICATION DESIGNATION

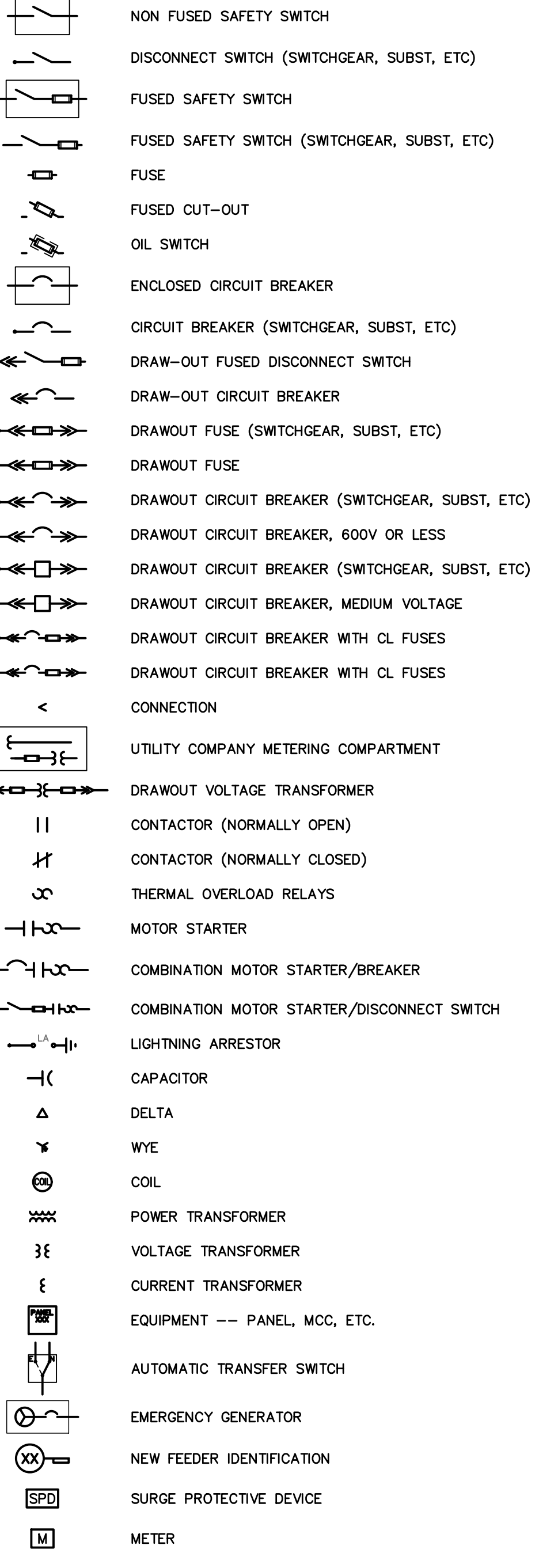


TYPICAL TELECOMMUNICATIONS DESIGNATION

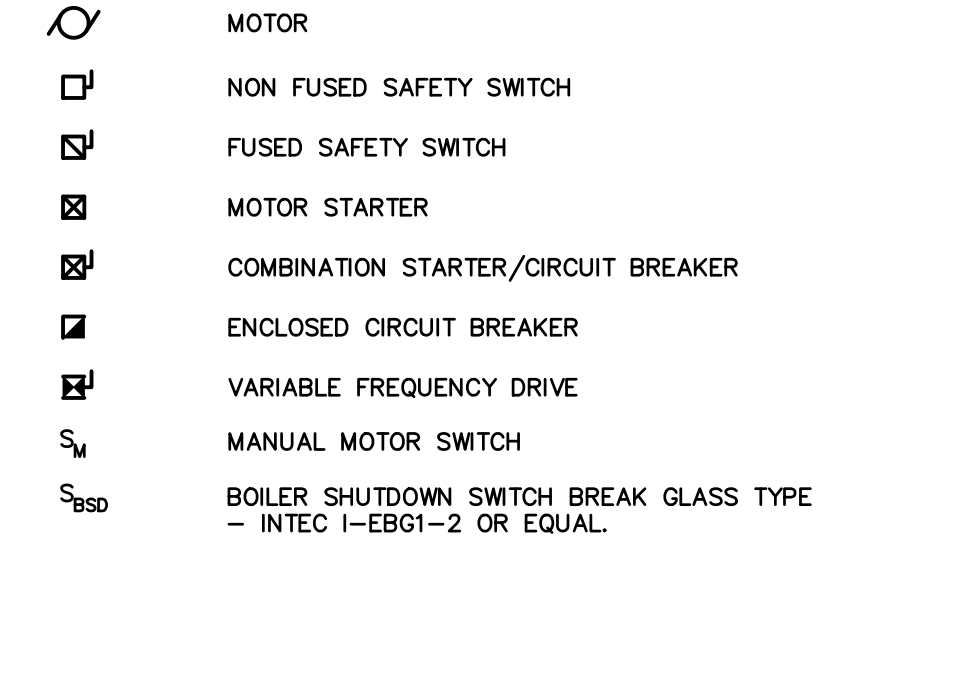
PROVIDE A TWO GANG BOX WITH PLASTER RING FOR CONNECTION OF SINGLE GANG FACEPLATE FOR EACH TELEPHONE/DATA OR TELEPHONE DEVICE WITH (1) 1" CONDUIT INSTALLED FOR EACH DEVICE TO TELECOMMUNICATIONS CLOSET OR CABLE TRAY IN ACCESSIBLE CEILING SPACE. INSTALL PULL LINE IN EACH CONDUIT. WHERE A TELE/DATA OUTLET IS PROVIDED IN SURFACE RACEWAY, EACH OUTLET SHALL ACCOMMODATE UP TO 4 DEVICES. PROVIDE A 1" CONDUIT FROM SURFACE RACEWAY TO CABLE TRAY IN ACCESSIBLE CEILING SPACE OR TELECOMMUNICATIONS CLOSET FOR EACH TELE/DATA OUTLET.



TYPICAL SINGLE LINE DESIGNATION



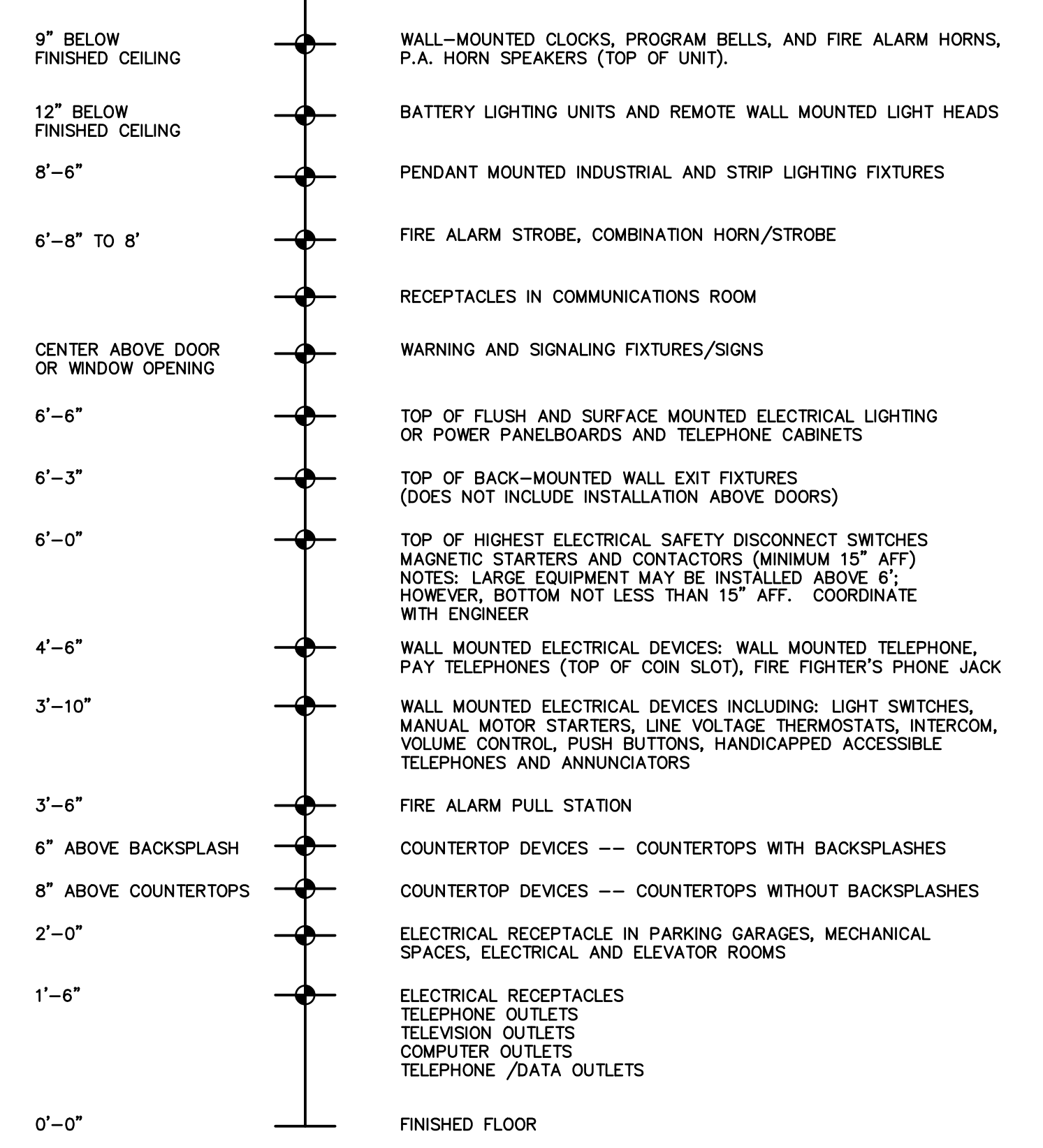
TYPICAL MECHANICAL DESIGNATION



TYPICAL ABBREVIATION

A, AMP	AMPERE	FSS	FUSED SAFETY SWITCH	OC	ON CENTER
ABV	ABOVE	FT	FOOT OR FEET	OH	OVERHEAD
AC	AIR CONDITIONER	FVNR	FULL VOLTAGE NON-REVERSING	P	POLE OR PUMP
ACC	ACCENT	G or GND	GROUND	PB	PULL BOX
ADA	AMERICANS WITH DISABILITIES ACT	GALV	GALVANIZED	PC	PLUMBING CONTRACTOR
ADJ	ADJUSTABLE	GC	GENERAL CONTRACTOR	PH	PHASE
AF	AMP FRAME	GEN	GENERATOR	PNL	PANEL
AFB	ABOVE FINISHED FLOOR	GFCI or GFI	GROUND FAULT CIRCUIT INTERRUPTING	PP	POWER PANEL
AFG	ABOVE FINISHED GRADE	GFP	GROUND FAULT PROTECTION	PRI	PRIMARY
AHU	AIR HANDLING UNIT	HID	HIGH INTENSITY DISCHARGE	PT	POTENTIAL TRANSFORMER
AIC	AMPERES INTERRUPTING CURRENT	H-O-A	HAND-OFF-AUTOMATIC	PVC	POLYVINYL CHLORIDE
AL	ALUMINUM	HP	HORSEPOWER	RECEPT	RECEPTACLE
AM	AMMETER	HT	HEIGHT	REF	REFERENCE
APPROX	APPROXIMATE	HV	HIGH VOLTAGE	REFL	REFLECTOR
ASY	ASYMMETRIC	HVAC	HEATING, VENTILATING, & AIR CONDITIONING	REQ	REQUIRED
AT	AMP TRIP	HZ	HERTZ	RGS	RIGID GALVANIZED STEEL CONDUIT
ATS	AUTOMATIC TRANSFER SWITCH	IG	ISOLATED GROUND	RM	ROOM
AVC	AUDIO/VISUAL CONTRACTOR	IN	INCH	RS	RAPID START
AWG	AMERICAN WIRE GAGE	INCAN	INCANDESCENT	SCH	SCHEDULE
BATT	BATTERY	INTLK	INTERLOCK	SEC	SECONDARY
BKR	BREAKER	JB	JUNCTION BOX	SECT	SECTION
BLDG	BUILDING	KV	KILOVOLT	SHT	SHEET
BLK	BLACK	KVA	KILOVOLT - AMPERES	SPD	SURGE PROTECTIVE DEVICE
C, CND	CONDUIT	KVAR	KILOVOLT AMPERES REACTIVE	SPDT	SINGLE POLE DOUBLE - THROW
CAB	CABINET	KW	KILOWATT	SPEC	SPECIFICATION
CATV	CABLE TELEVISION	KWH	KILOWATT-HOUR	SPST	SINGLE POLE SINGLE - THROW
CB	CIRCUIT BREAKER	LA	LIGHTNING ARRESTER	SS	SUBSTATION
CCTV	CLOSED CIRCUIT TELEVISION	LT	LIGHT	SSB	SOLID STATE BALLAST
CH	CABINET HEATER	LTG	LIGHTING	STD	STANDARD
CIR, CKT	CIRCUIT	LOC	LOCAL OPERATING CONSOLE	SW	SWITCH
CLF	CURRENT LIMITING FUSE	LV	LOW VOLTAGE	SWBD	SWITCHBOARD
CLG	CEILING	MATV	MASTER ANTENNA TELEVISION	TEL	TELEPHONE
CLR	CLEAR	MC	MECHANICAL CONTRACTOR	TL	TWIST LOCK
COL	COLUMN	MC	METAL - CLAD CABLE	TT	TWIN TUBE
COMM	COMMUNICATION	MCB	MAIN CIRCUIT BREAKER	TYP	TYPICAL
CONC	CONCRETE	MCC	MOTOR CONTROL CENTER	UC	UNDERCOUNTER
CONN	CONNECTION	MDP	MAIN DISTRIBUTION PANEL	UG	UNDERGROUND
CONTR	CONTRACTOR	MFR	MANUFACTURE	UH	UNIT HEATER
CT	CURRENT TRANSFORMER	MH	MANHOLE	UL	UNDERWRITERS LABORATORIES
CU	COPPER	MH	METAL HALIDE	UON	UNLESS OTHERWISE NOTED
CW	COOL WHITE	MIN	MINIMUM	UPS	UNINTERRUPTABLE POWER SUPPLY
D	DEDICATED CIRCUIT	MISC	MISCELLANEOUS	UV	UNIT VENTILATOR
DB	DECIBEL	MLO	MAIN LUGS ONLY	V	VOLTS
DED	DEDICATED	MOD	MOTOR OPERATED DAMPER	VCB	VACUUM CIRCUIT BREAKER
DIA	DIAMETER	MOV	MOTOR OPERATED VALVE	VM	VOLTMETER
DISC	DISCONNECT	MTD	MOUNTED	VP	VAPOR PROOF
DN	DOWN	MTG	MOUNTING	VT	VOLTAGE TRANSFORMER
DP	DISTRIBUTION PANEL	MTS	MANUAL TRANSFER SWITCH	W	WIRE
DRPT	DOUBLE POLE DOUBLE - THROW	MV	MEDIUM VOLTAGE	W	WATT
DWG(S)	DRAWING(S)	NAC	NOTIFICATION APPLIANCE CIRCUIT	WP	WEATHERPROOF
EA	EACH	NC	NORMALLY CLOSED	WW	WARM WHITE
EC	ELECTRICAL CONTRACTOR	NEUT	NEUTRAL	XFMR	TRANSFORMER
EF	EXHAUST FAN	NFSS	NON FUSED SAFETY SWITCH		
ELEC	ELECTRIC	NIC	NOT IN CONTRACT		
ELEV	ELEVATOR	NL	NIGHT LIGHT		
EMER, EM, E	EMERGENCY	NO or #	NUMBER		
EMT	ELECTRICAL METALLIC TUBING	NTS	NOT TO SCALE		
EO	ELECTRICALLY OPERATED				
EQUIP	EQUIPMENT				
ESB	ENERGY SAVINGS BALLAST				
EW	ELECTRIC WATER COOLER				
EX, EXIST	EXISTING TO REMAIN				
EXD	EXISTING TO BE DEMOLISHED				
EXR	EXISTING TO BE RELOCATED				
FA	FIRE ALARM				
FAAP	FIRE ALARM ANNUNCIATOR PANEL				
FACP	FIRE ALARM CONTROL PANEL				
FAGP	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL				
FC	FOOTCANDLES				
FIXT	FIXTURE				
FL	FLOOR				
FLA	FULL LOAD AMPS				
FLUOR	FLUORESCENT				

STANDARD MOUNTING HEIGHTS



1. FINAL MOUNTING HEIGHTS SHALL BE FIELD COORDINATED AND APPROVED BY THE ARCHITECT PRIOR TO COMMENCING INSTALLATION.

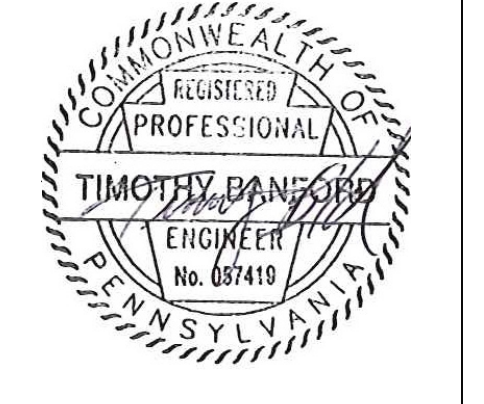
2. MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSE.

3. THE ABOVE MOUNTING HEIGHT FOR FIRE ALARM DEVICES SHALL BE ADHERED TO UNLESS OTHERWISE APPROVED BY THE ENGINEER. THESE HEIGHTS ARE INTENDED TO CONFORM TO AMERICANS WITH DISABILITIES ACT AND NATIONAL, STATE, AND LOCAL CODES. THE CONTRACTOR SHALL VERIFY CONFORMANCE PRIOR TO COMMENCING INSTALLATION.

REV SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	REVISED
07/31/2024	
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024

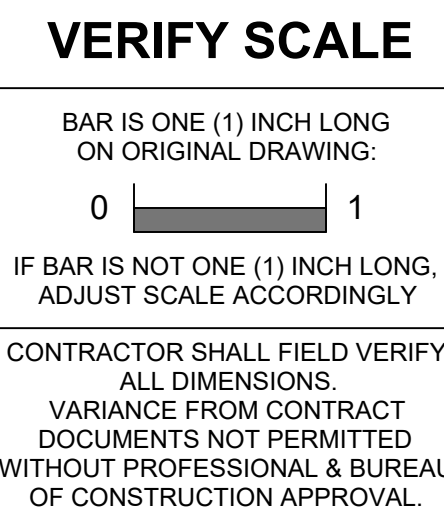


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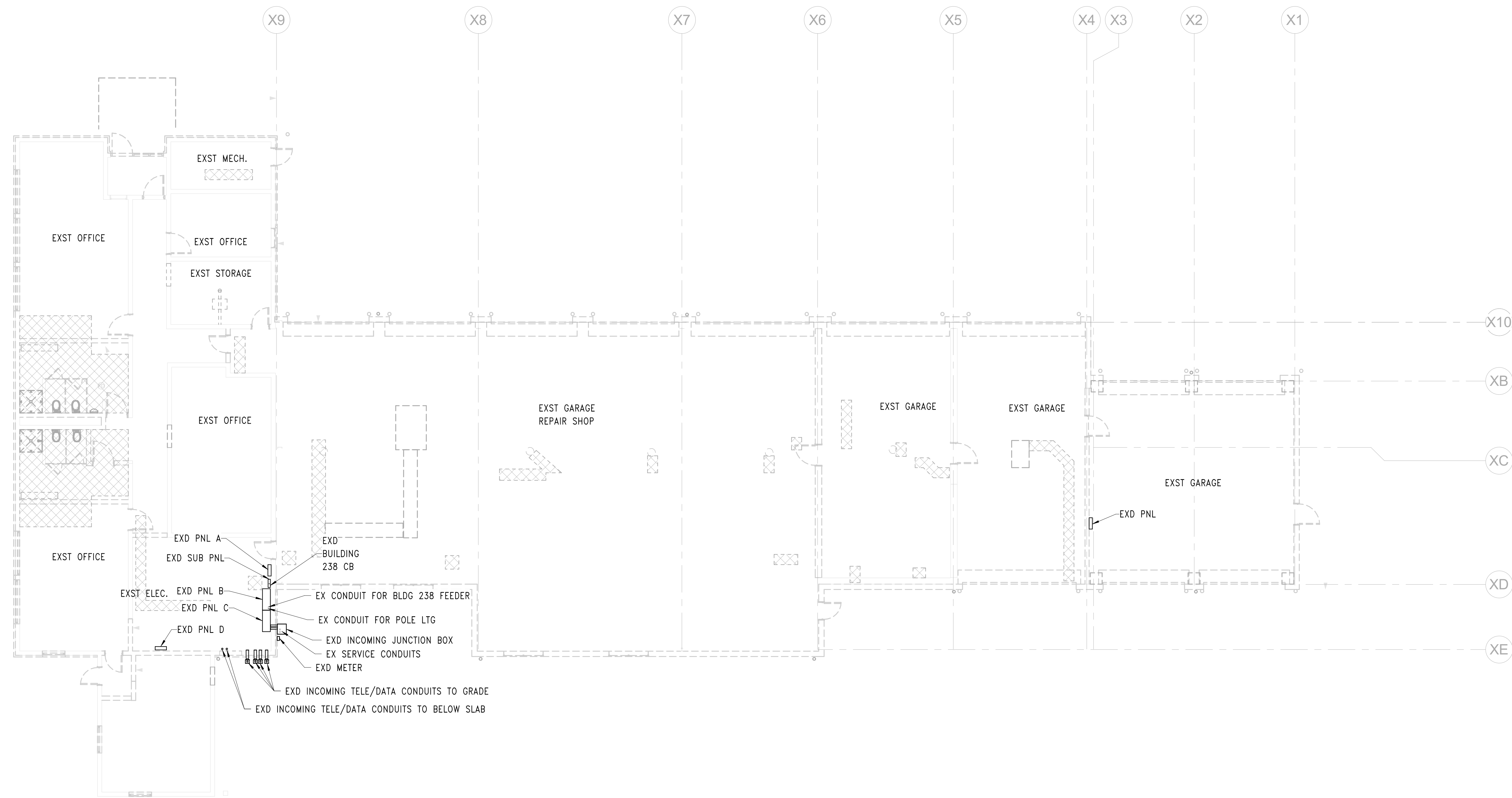
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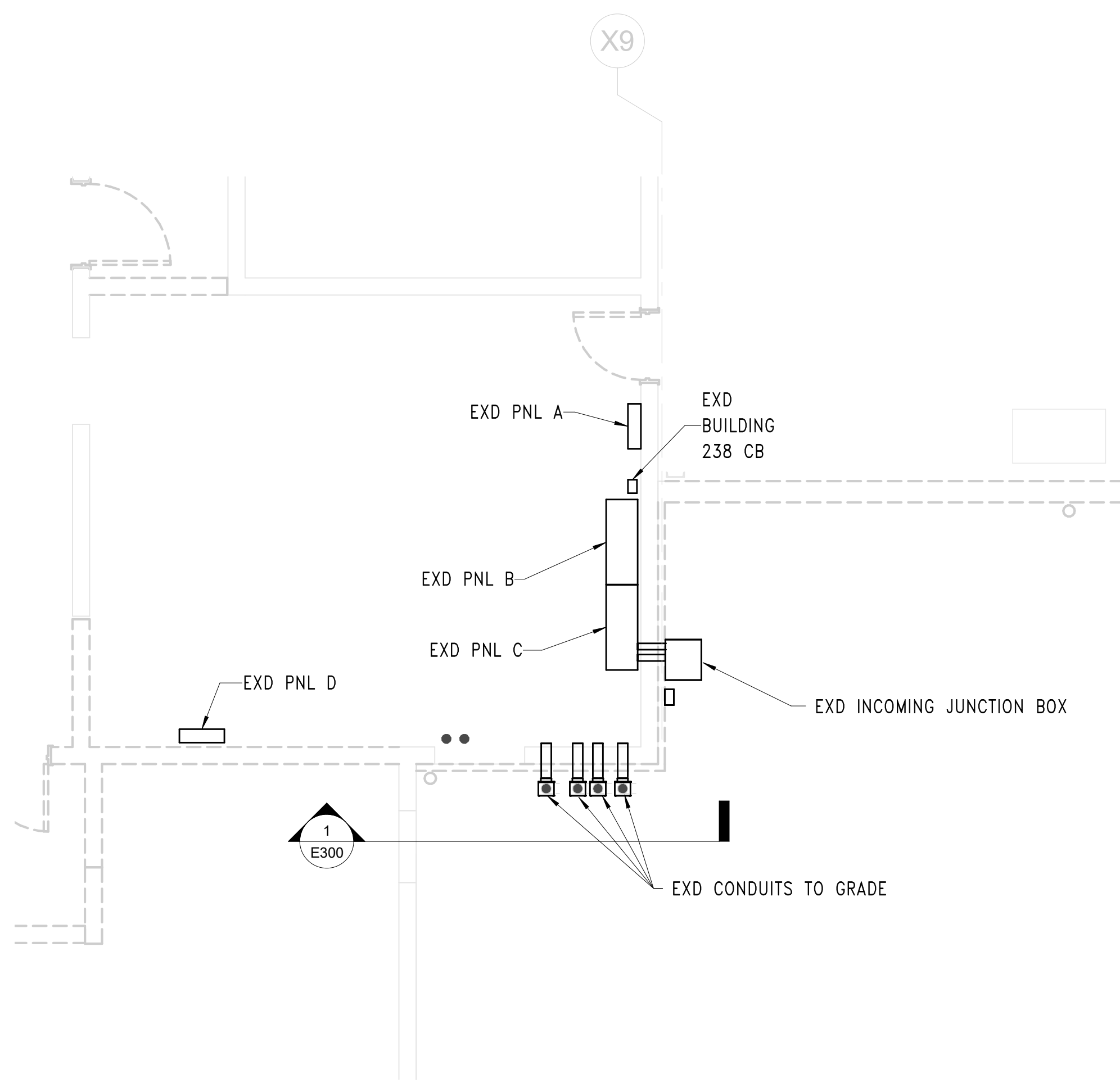
LEGEND AND ABBREVIATIONS



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	TB	08/26/2024	E-000
	CHECKED BY	SCALE	
	TB	AS NOTED	



1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



2 CONDUIT DEMOLITION PLAN
1/4" = 1'-0"

GENERAL DEMOLITION NOTES

1. ALL EXISTING PANELBOARDS, EQUIPMENT, DEVICES, LIGHT FIXTURES, CONDUIT AND WIRING SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
2. EXISTING FEEDER TO BUILDING 238 TO REMAIN AND BE REUSED TO POWER BUILDING 238.
3. EXISTING CIRCUIT FOR POLE LIGHTS TO REMAIN AND BE REUSED TO POWER EXISTING POLE LIGHTS.
4. DEMOLISH ALL THROUGH THE SLAB CONDUITS, FLUSH TO FLOOR.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
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CONSTRUCTION DOCUMENTS 04/15/2024	
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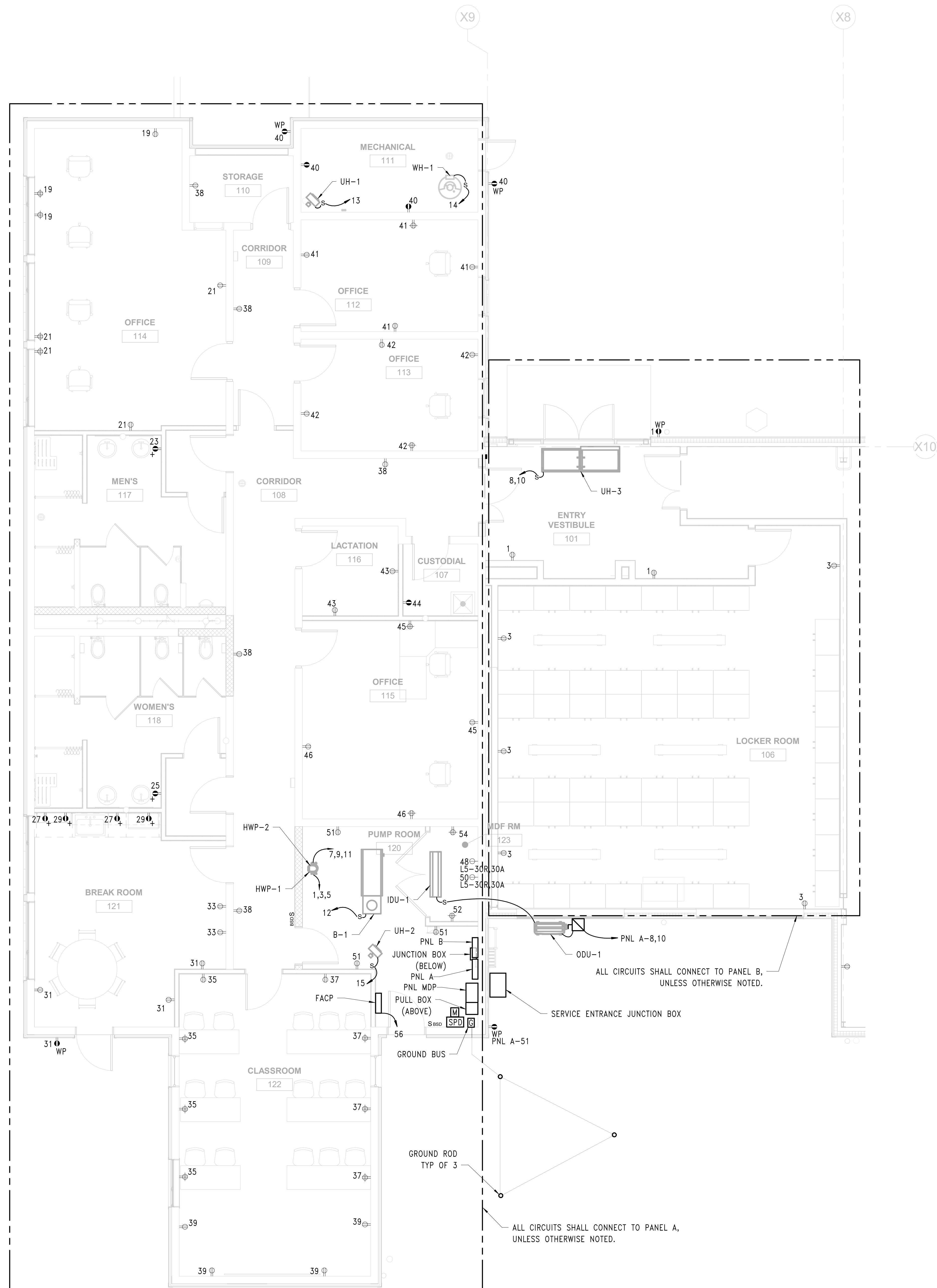
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BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

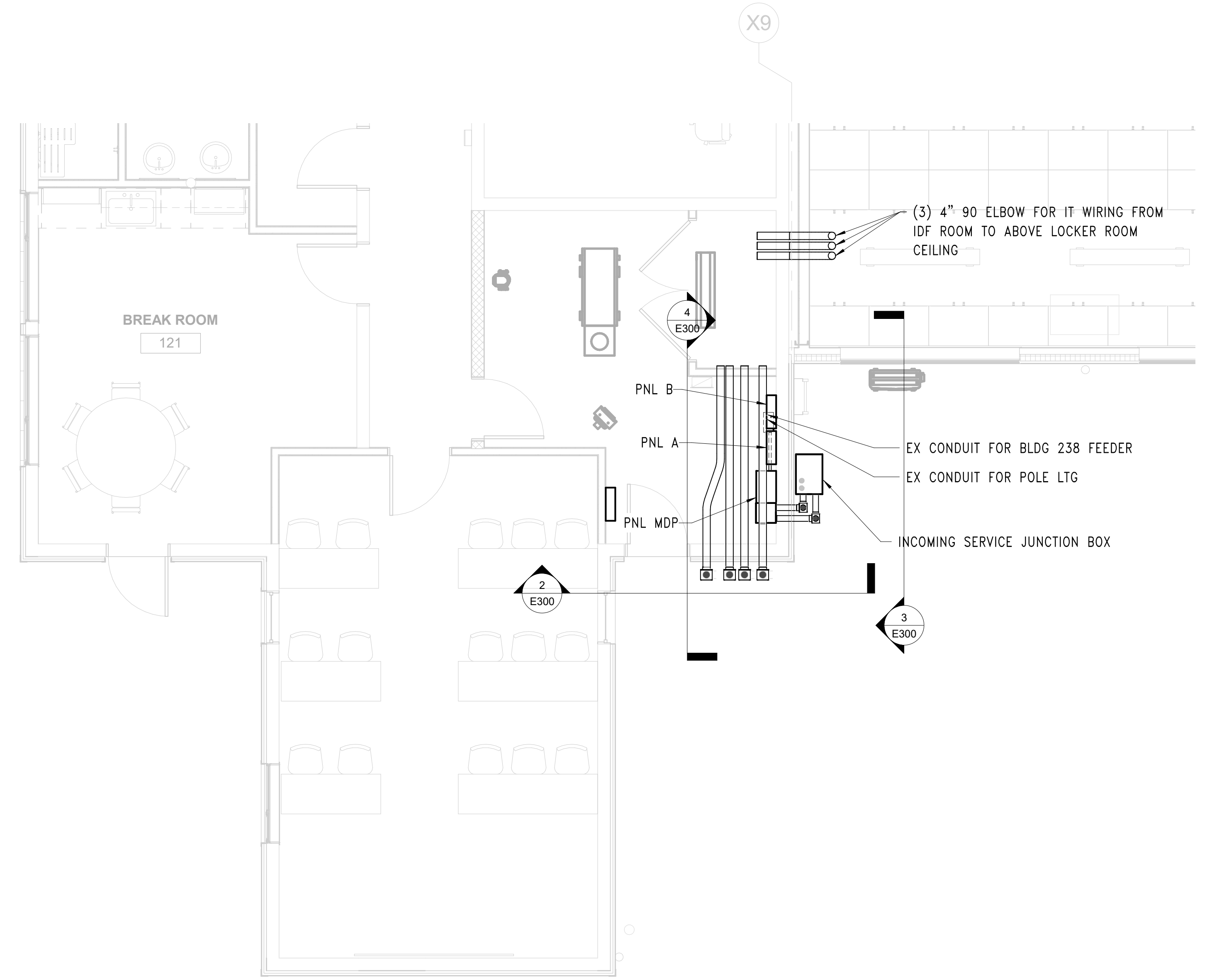
FIRST FLOOR DEMOLITION PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. ED100
CHECKED BY TB	SCALE AS NOTED	



① FIRST FLOOR NEW WORK POWER PLAN - WEST
1/4" = 1'-0"



② CONDUIT NEW WORK PLAN
1/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document = August 26, 2024

SIGNATURE _____ DATE _____

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

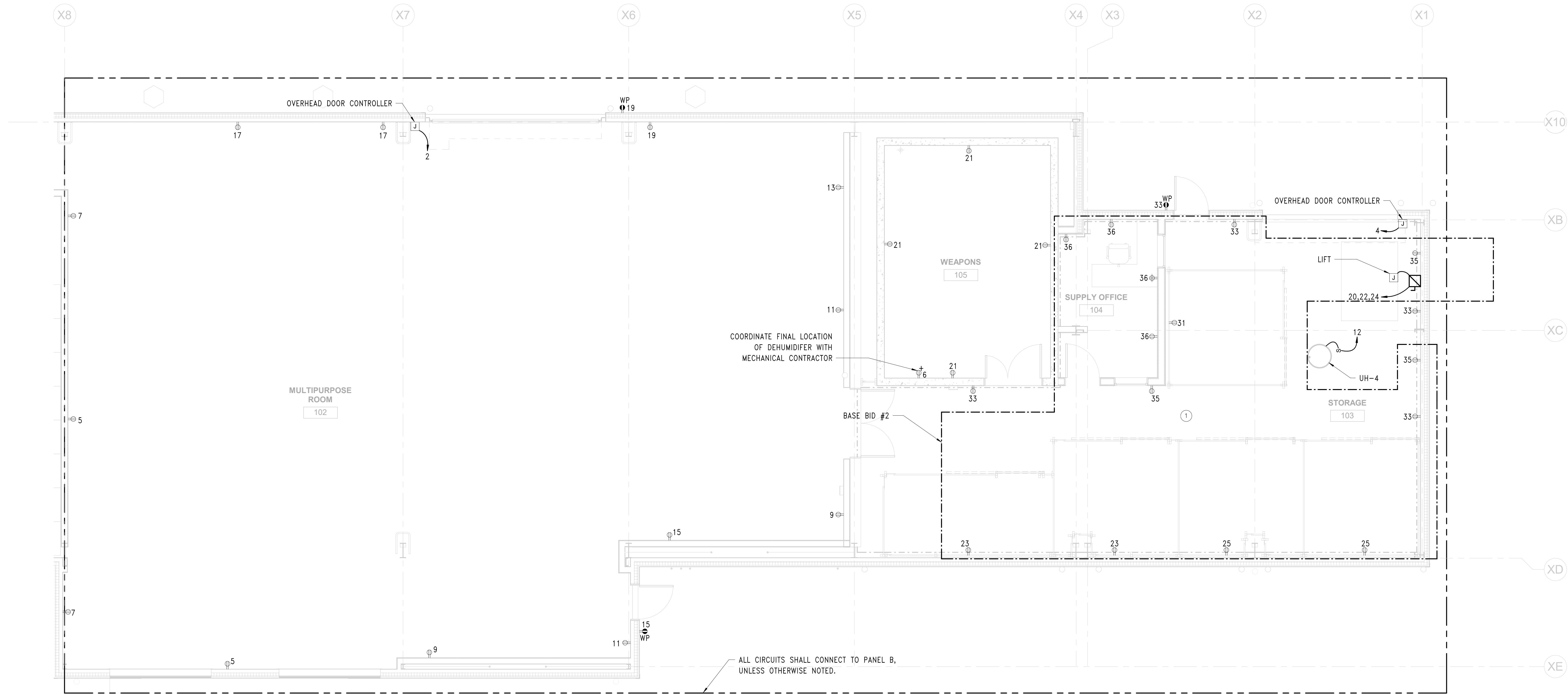
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

NEW WORK POWER PLAN - WEST

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
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DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-100
CHECKED BY TB	SCALE AS NOTED	



1 FIRST FLOOR NEW WORK POWER PLAN - EAST
1/4" = 1'-0"

GENERAL NEW WORK NOTES

1. IN ROOMS 102 AND 103, ALL DEVICES AND CONDUIT SHALL BE INSTALLED A MINIMUM OF 12" ABOVE THE GARAGE DOOR HEIGHT.

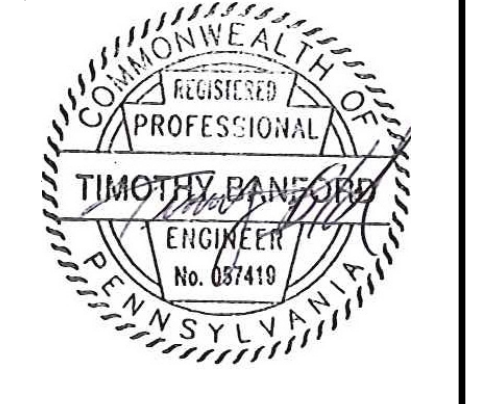
NEW WORK NOTES

- 1 UNDER BASE BID #1, PROVIDE CONDUIT AND WIRING FROM THE PANELBOARD FOR ALL BASE BID #2 CIRCUITS. CONDUITS SHALL STUB INTO STORAGE ROOM 103 AND WIRING SHALL TERMINATE INTO JUNCTION BOXES. ALL JUNCTION BOXES SHALL BE LABELED WITH CIRCUIT INFORMATION.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
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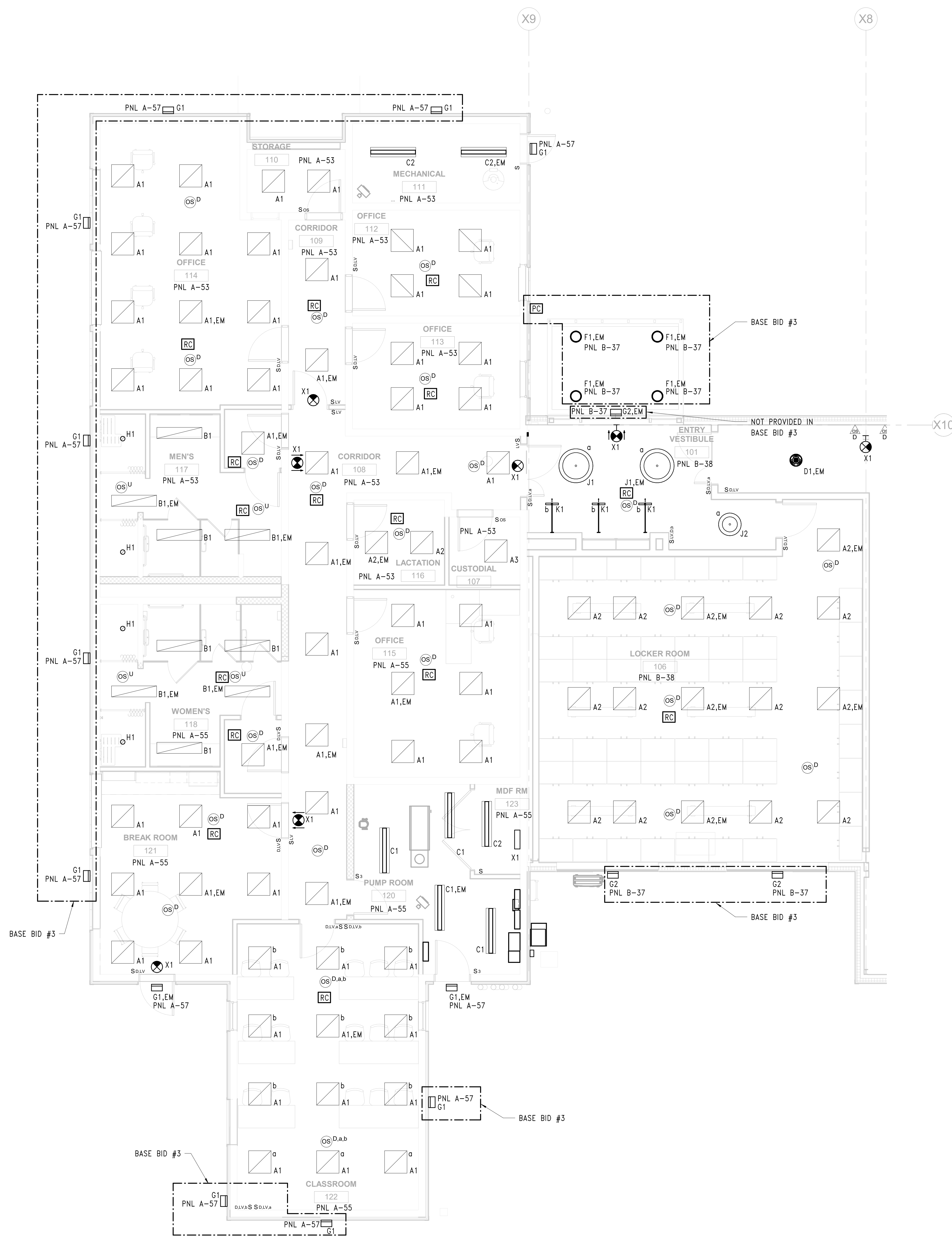
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
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NEW WORK POWER PLAN - EAST		DRAWING No. E-101
DRAWN BY TB	DATE 08/26/2024	DRAWING No.
CHECKED BY TB	SCALE AS NOTED	

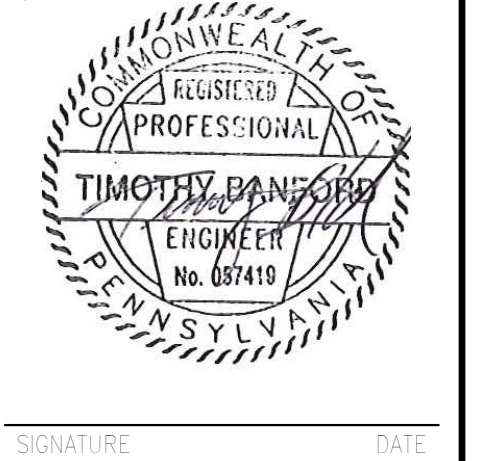


1 FIRST FLOOR NEW WORK LIGHTING PLAN - WEST
1/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

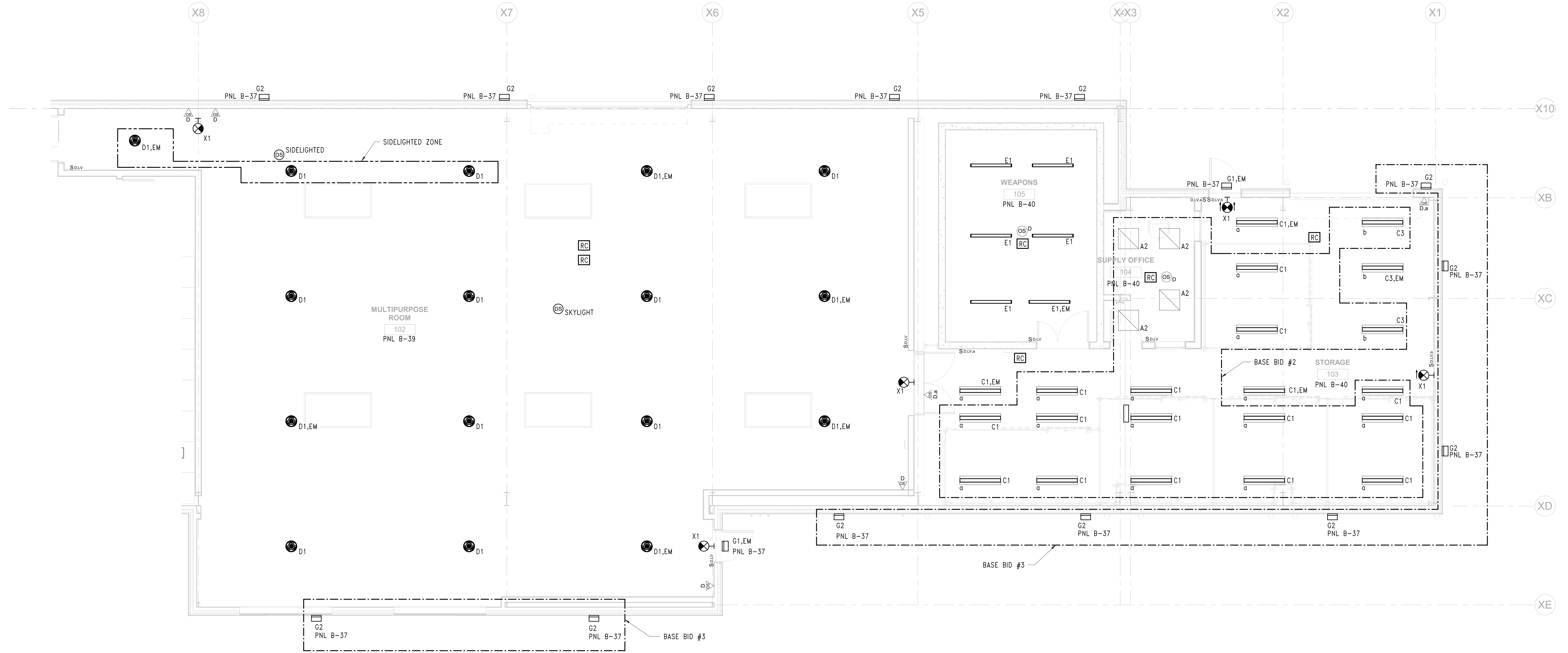
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

NEW LIGHTING PLAN - WEST

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-102
CHECKED BY TB	SCALE AS NOTED	



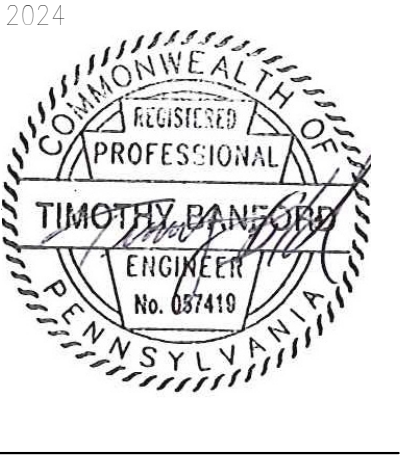
1 FIRST FLOOR NEW WORK LIGHTING PLAN - EAST
1/4" = 1'-0"

GENERAL NEW WORK NOTES

1. IN ROOMS 102 AND 103, ALL DEVICES AND CONDUIT SHALL BE INSTALLED A MINIMUM OF 12" ABOVE THE GARAGE DOOR HEIGHT.

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CONSTRUCTION DOCUMENTS 04/15/2024	
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HARRISBURG, PENNSYLVANIA

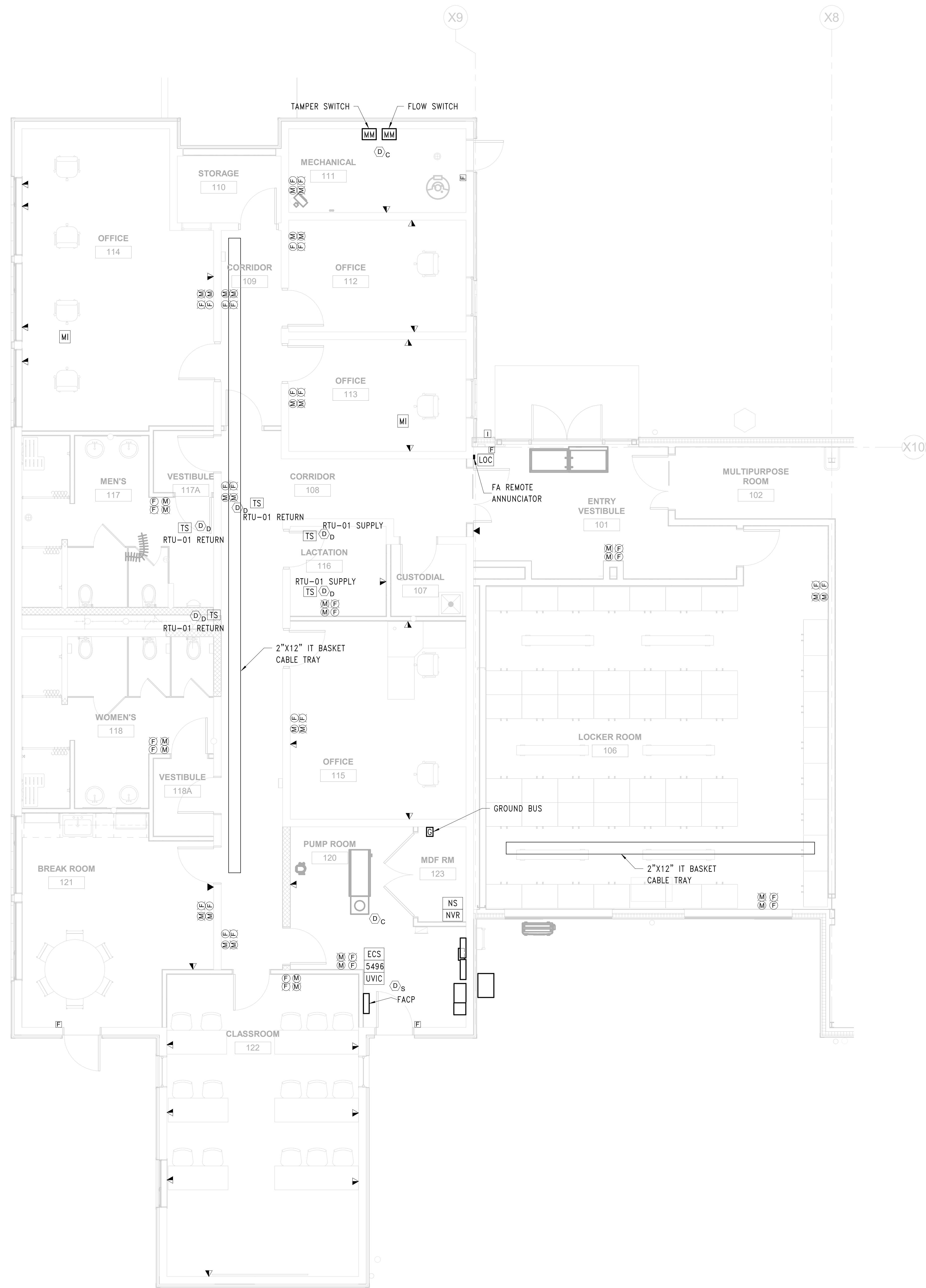
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

NEW LIGHTING PLAN - EAST

VERIFY SCALE
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DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-103
CHECKED BY TB	SCALE AS NOTED	



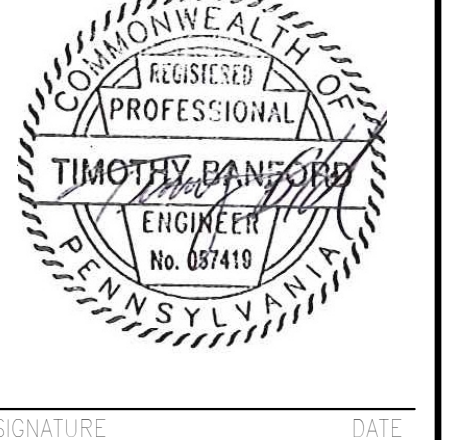
GENERAL NEW WORK NOTES

- DUCT DETECTOR TEST SWITCHES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. COORDINATE FINAL LOCATION IN THE FIELD WITH THE OWNER.

1 FIRST FLOOR NEW WORK LOW VOLTAGE PLAN - WEST
1/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
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CONSTRUCTION DOCUMENTS 04/15/2024	
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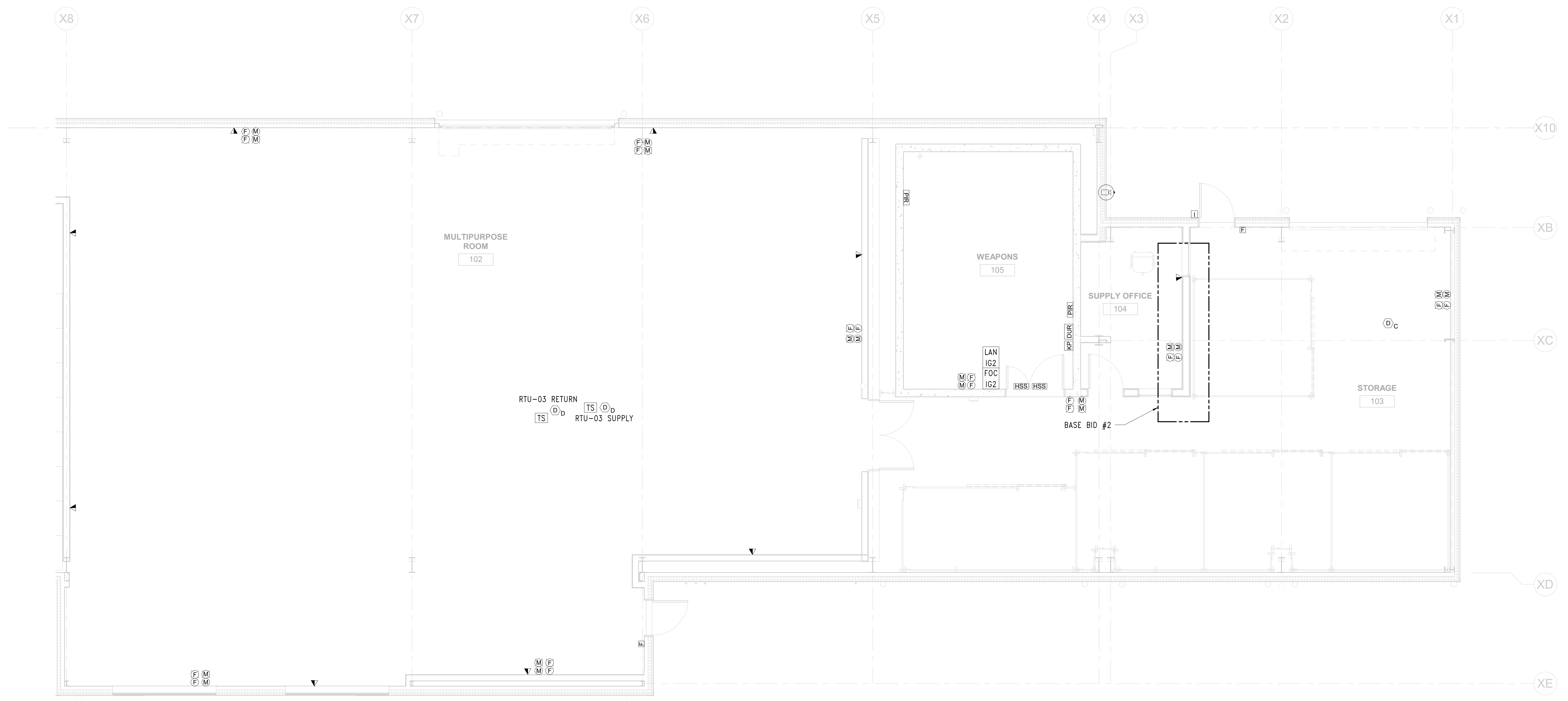
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

LOW VOLTAGE SYSTEMS - WEST

VERIFY SCALE
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0 1
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DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-104
CHECKED BY TB	SCALE AS NOTED	



1 FIRST FLOOR NEW WORK LOW VOLTAGE PLAN - EAST
1/4" = 1'-0"

GENERAL NEW WORK NOTES

1. ALL TELE/DATA OUTLET CONDUITS SHALL BE CONTINUOUS TO THE ABOVE CEILING CABLE TRAY IN LOCKER ROOM 106.
2. DUCT DETECTOR TEST SWITCHES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. COORDINATE FINAL LOCATION IN THE FIELD WITH THE OWNER.
3. IN ROOMS 102 AND 103, ALL DEVICES AND CONDUIT SHALL BE INSTALLED A MINIMUM OF 12" ABOVE THE GARAGE DOOR HEIGHT.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
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CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

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DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

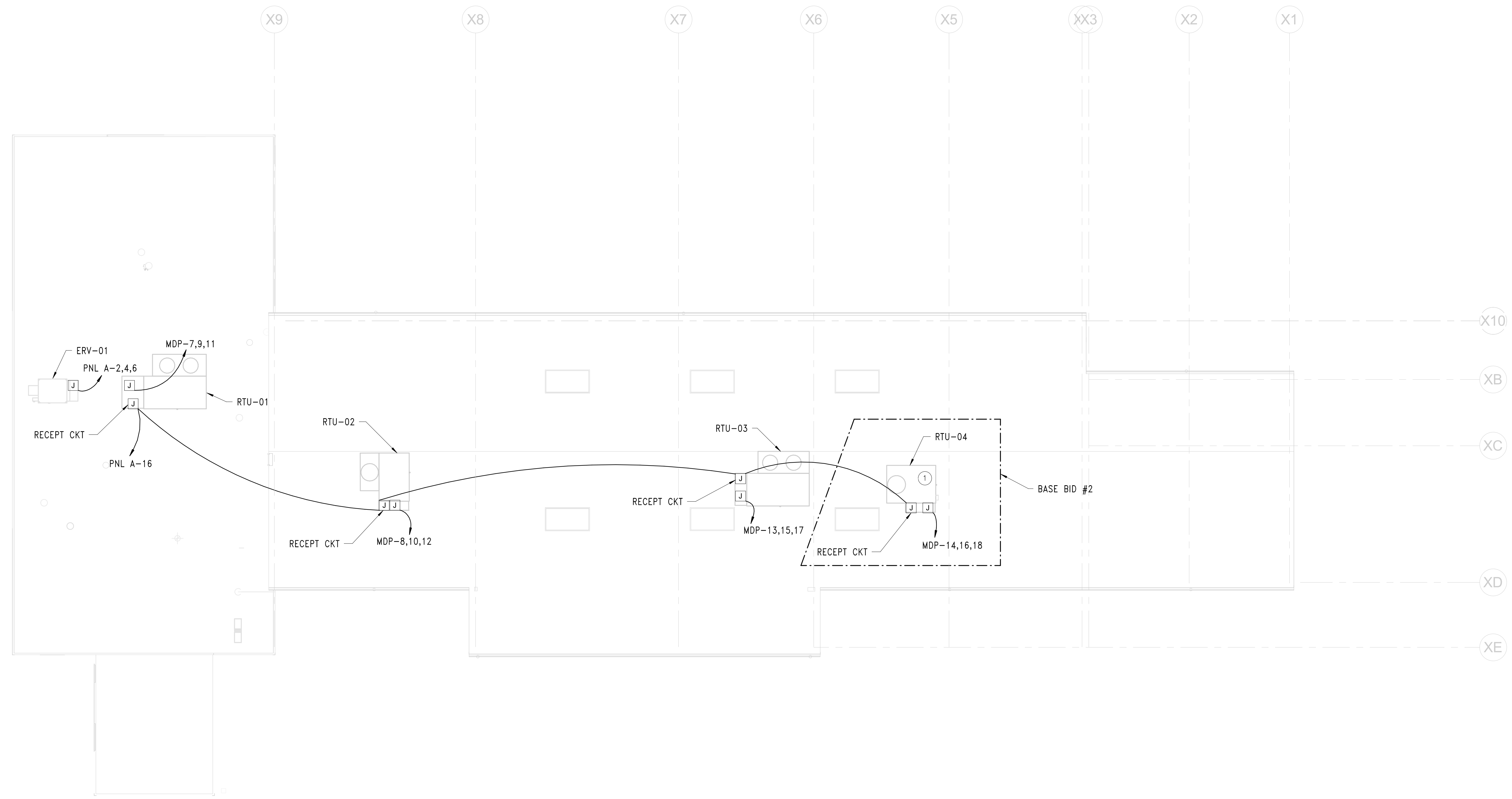
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

LOW VOLTAGE SYSTEMS - EAST

VERIFY SCALE
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DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-105
CHECKED BY TB	SCALE AS NOTED	



1 ROOF NEW WORK PLAN
1/8" = 1'-0"

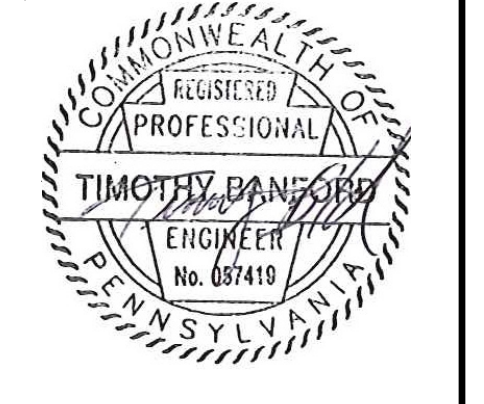
NEW WORK NOTES

- 1 UNDER BASE BID #1, PROVIDE CONDUIT AND WIRING INSTALLED TO THE AREA OF THE FUTURE RTU-4. CIRCUIT SHALL TERMINATE INTO JUNCTION BOX BELOW THE ROOF FOR FUTURE EXTENSION.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
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CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

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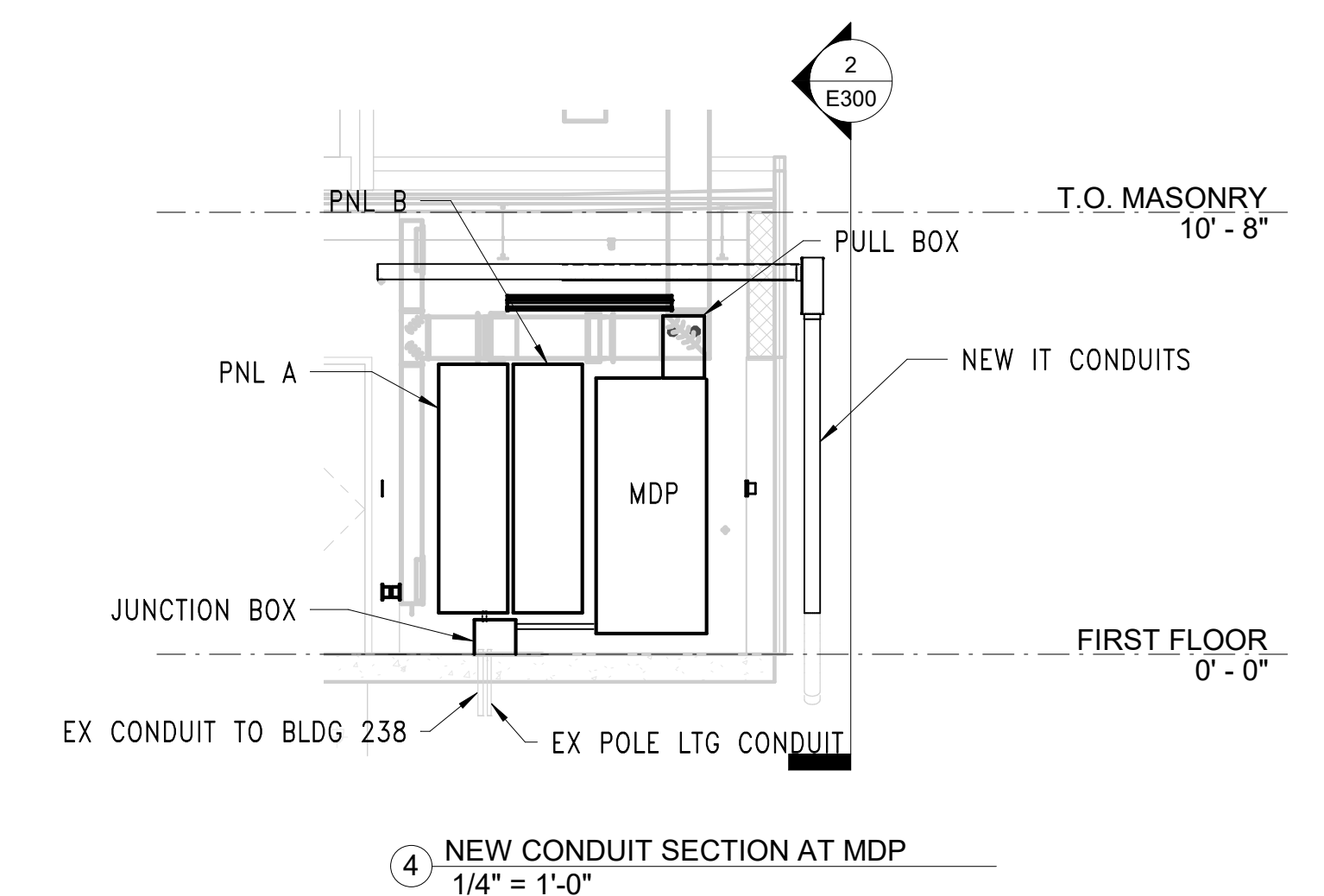
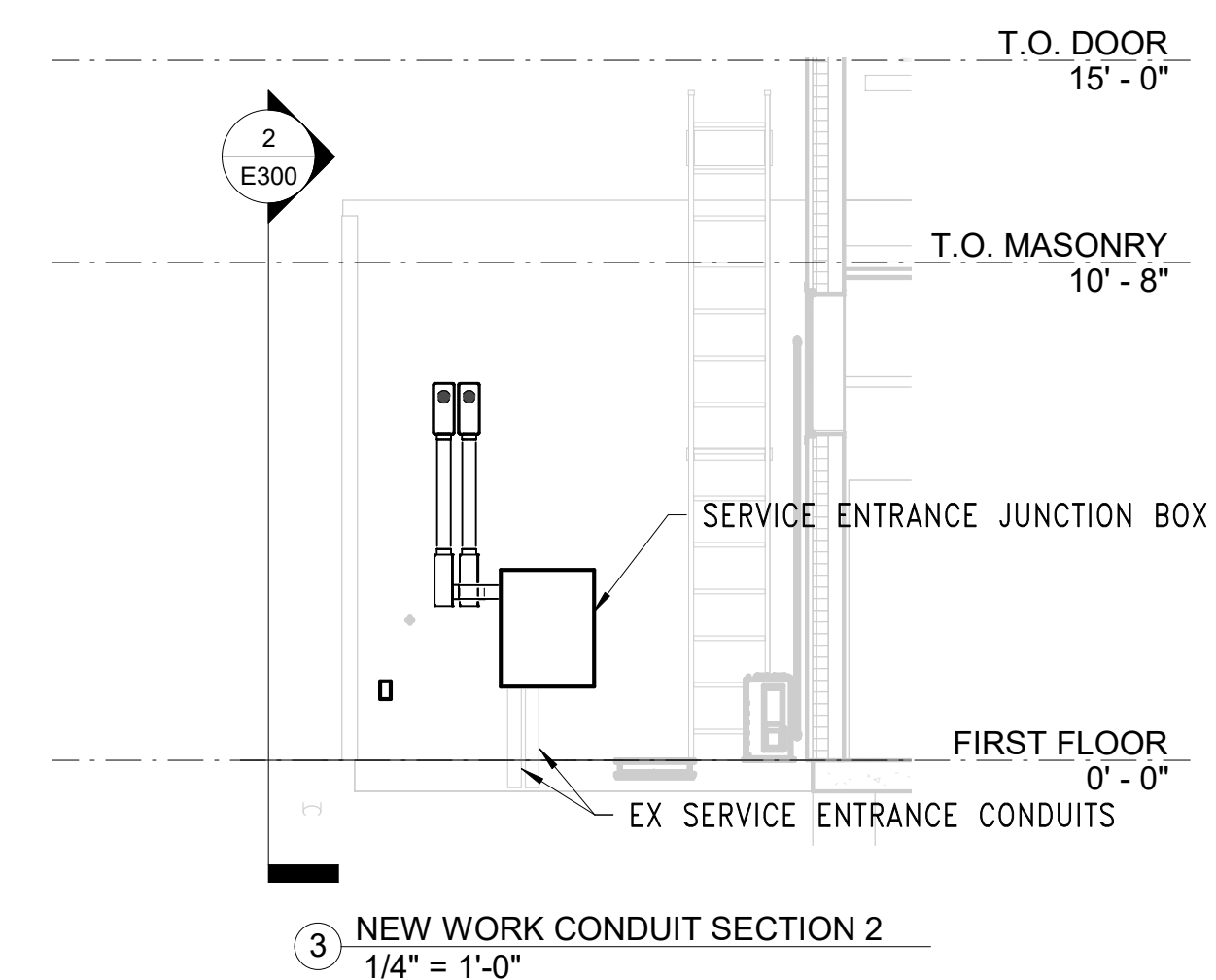
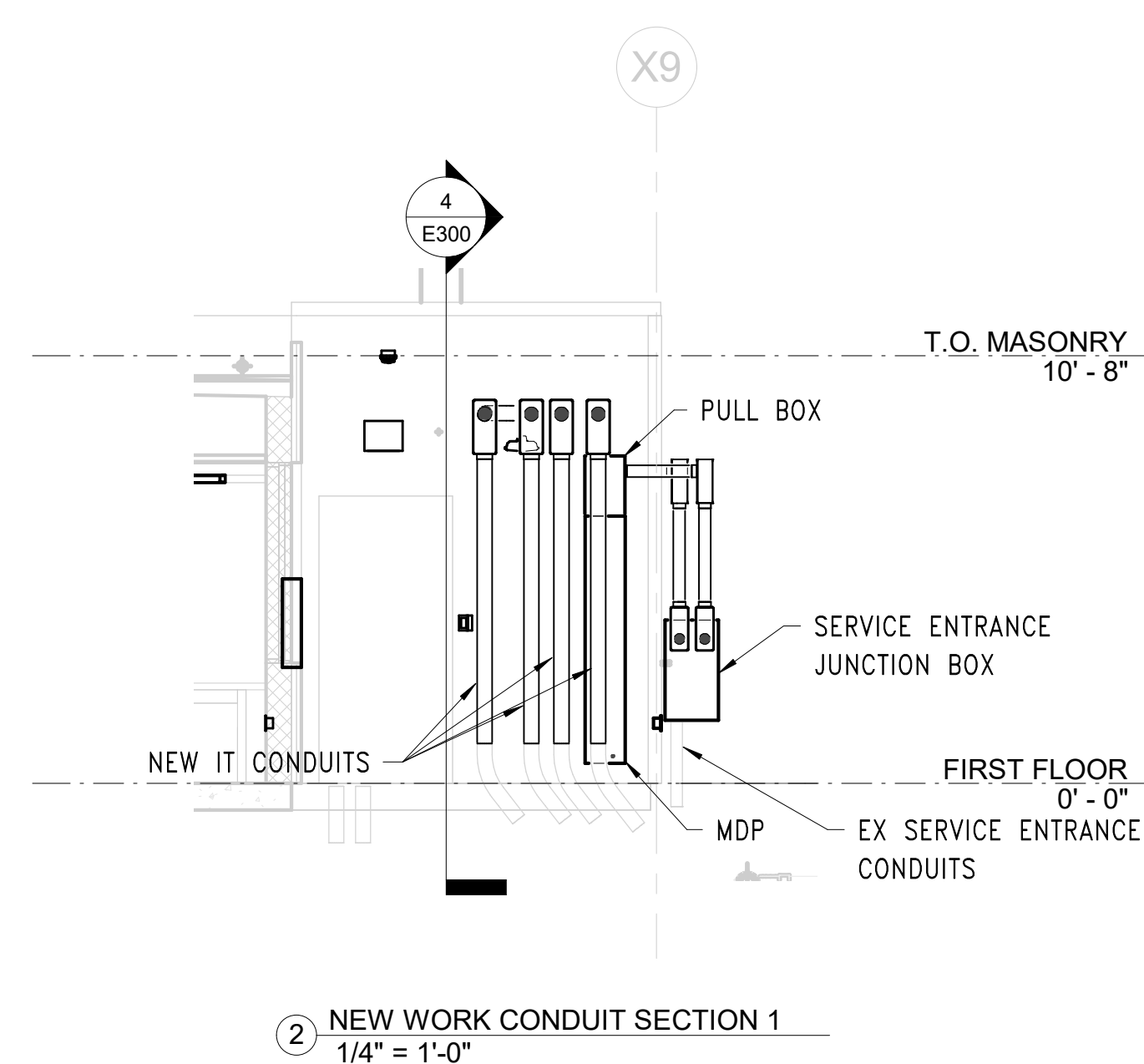
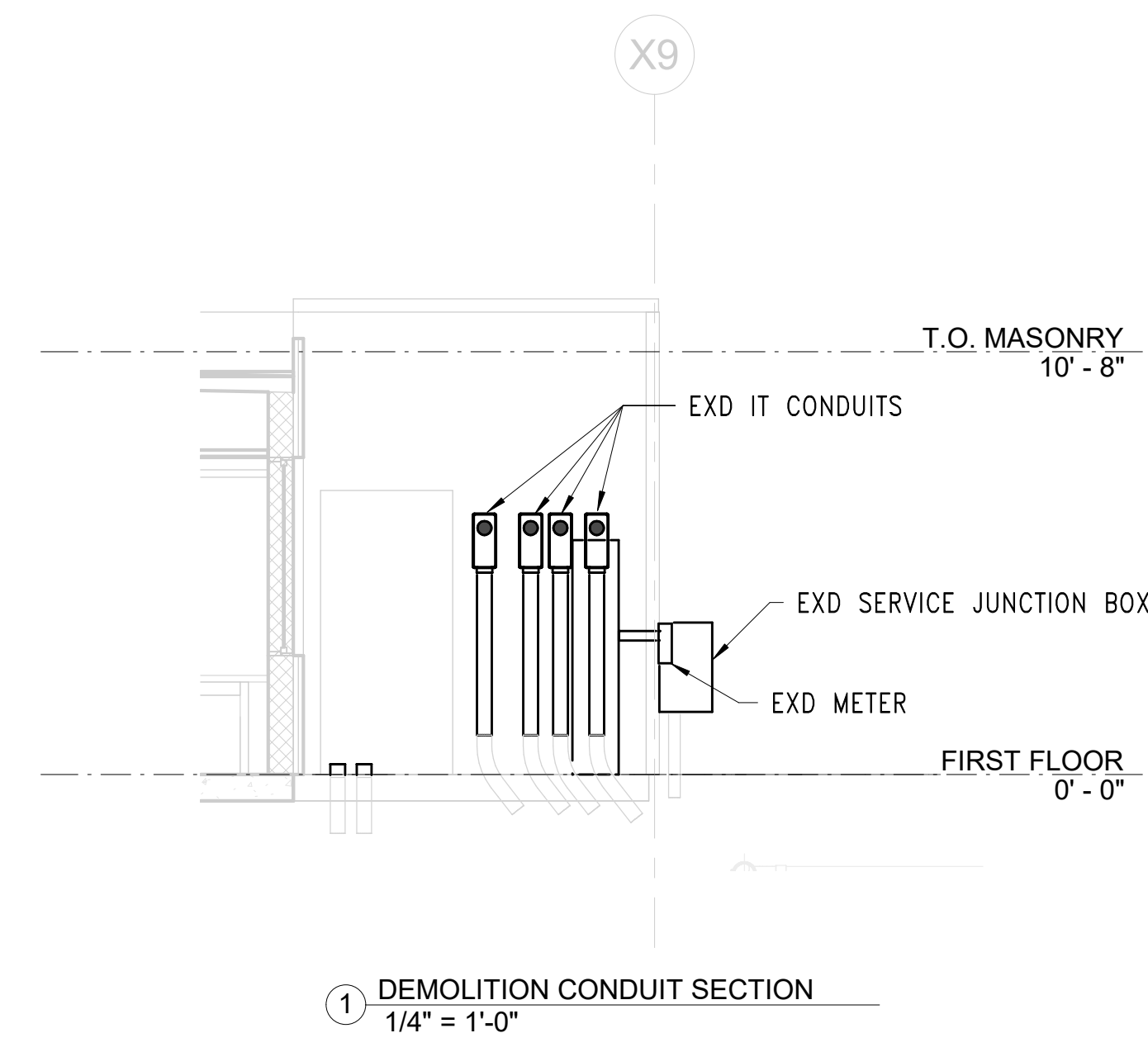
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HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

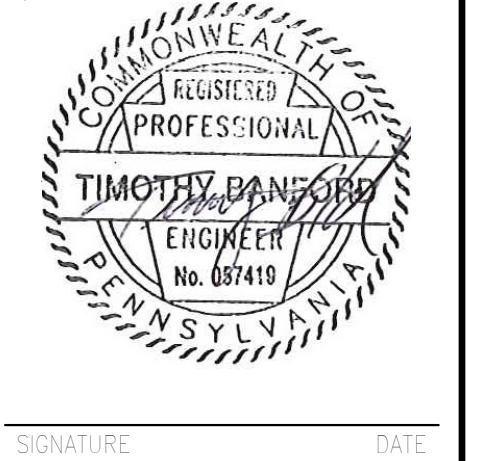
VERIFY SCALE
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0 1
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ROOF PLAN		DRAWING No. E-106
DRAWN BY TB	DATE 08/26/2024	
CHECKED BY TB	SCALE AS NOTED	



BID SET	08/26/2024	
CONSTRUCTION DOCUMENTS	07/31/2024	REVISED
CONSTRUCTION DOCUMENTS	04/15/2024	
DESIGN DEVELOPMENT-REVISED	02/27/2024	

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ZIMMERMAN STUDIO **INC.**
ARCHITECTURE + PROJECT MANAGEMENT

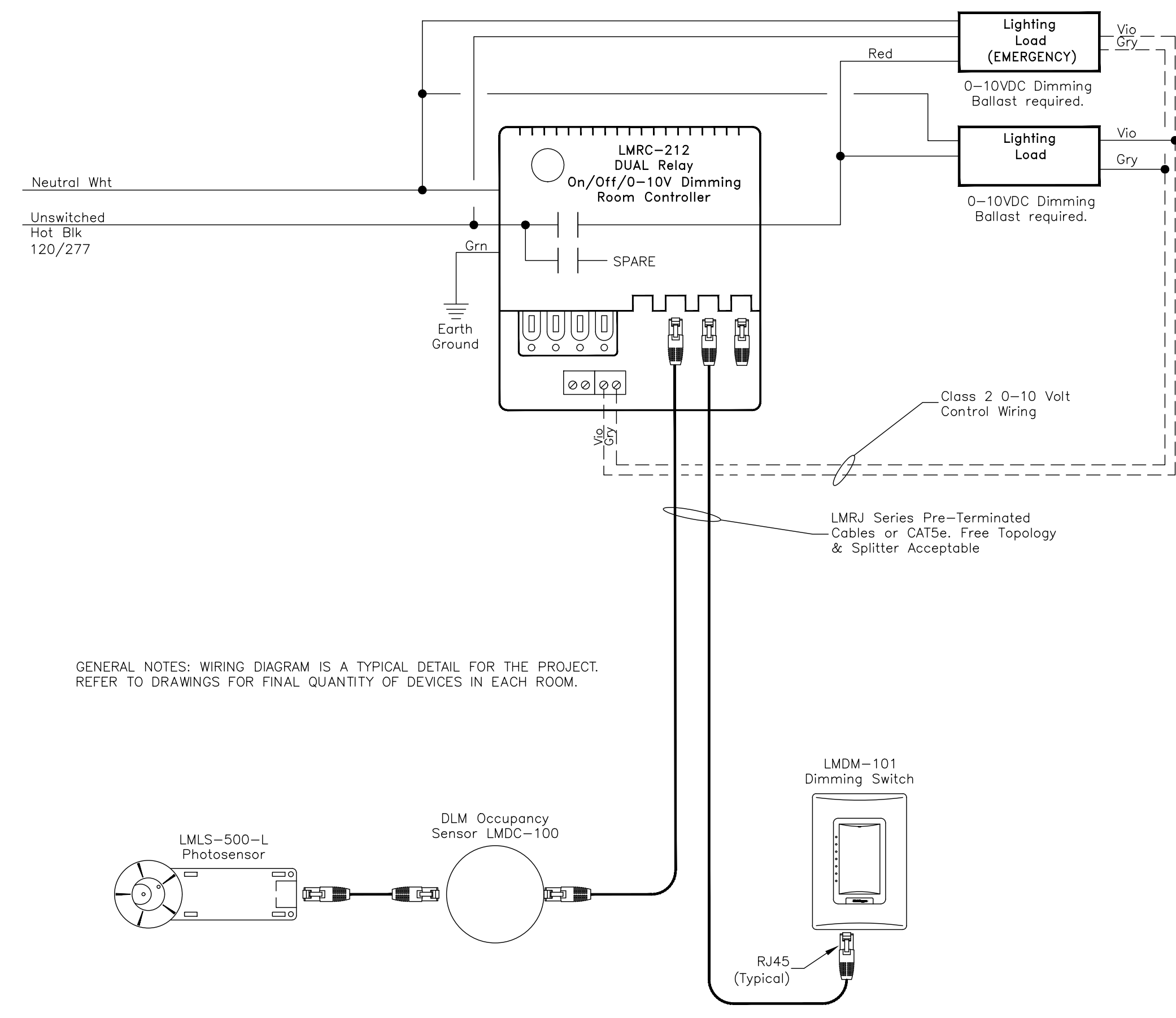
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

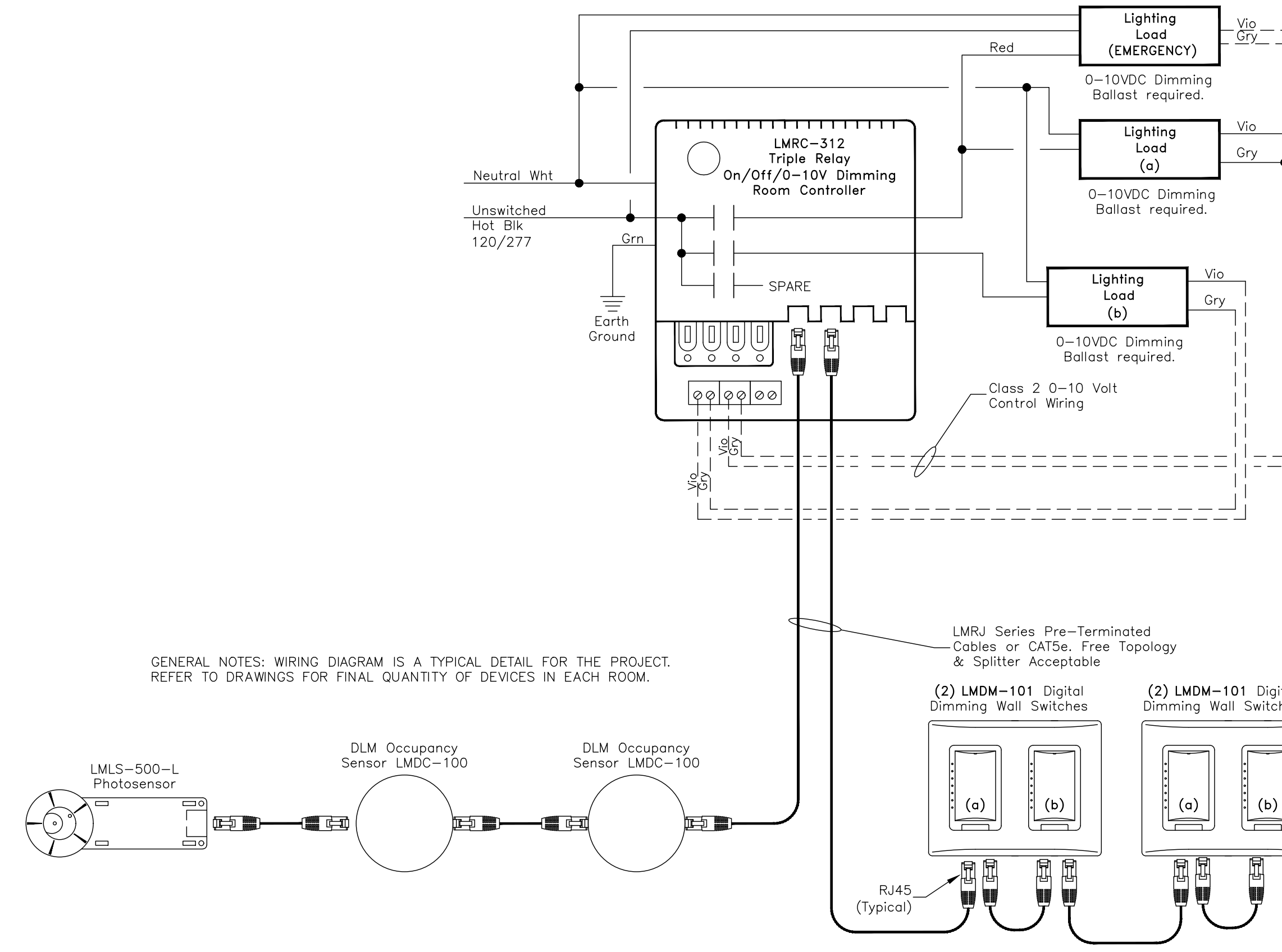
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
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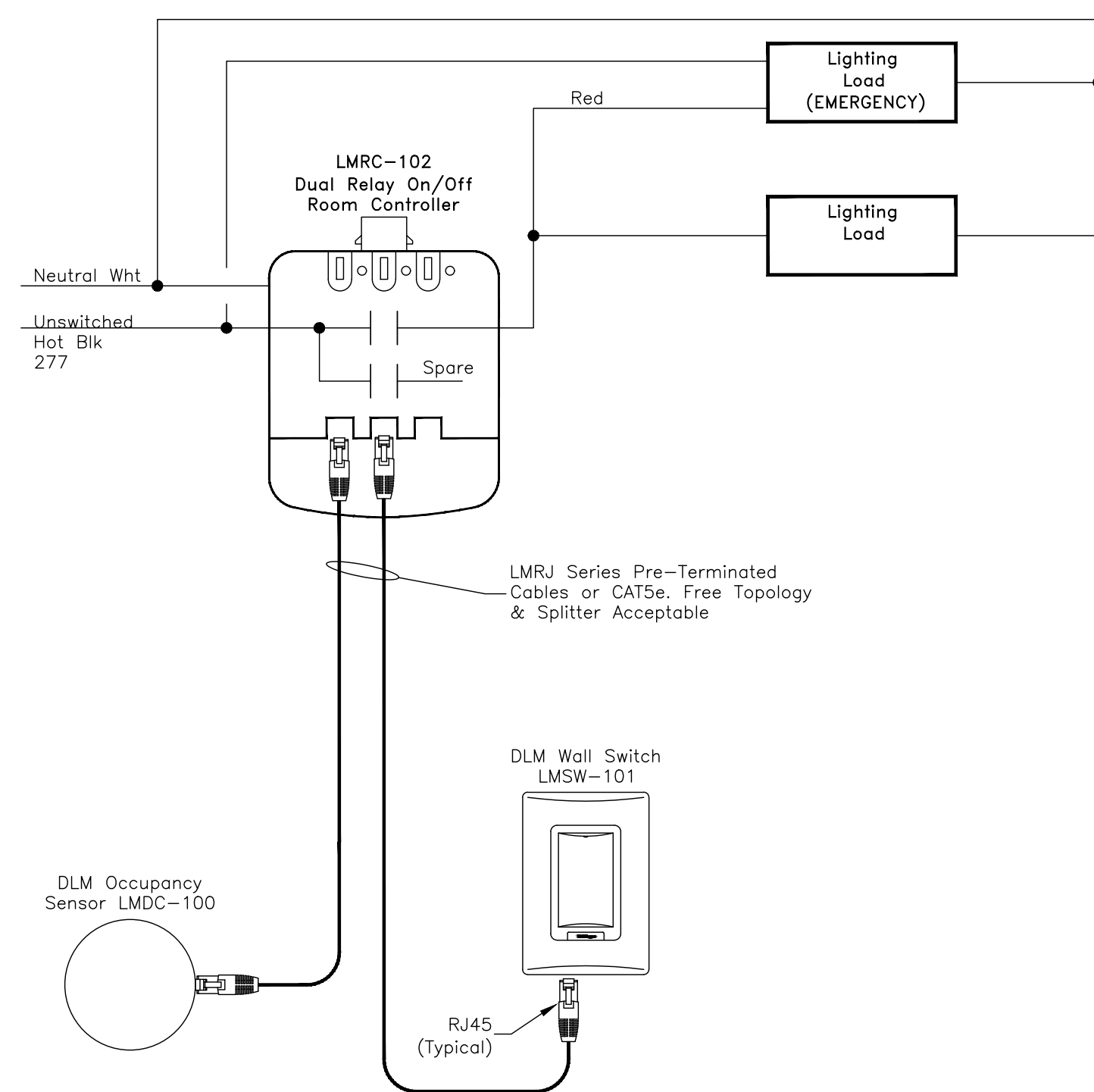
DRAWING No.		E - 300
DRAWN BY TB	DATE 08/26/2024	
CHECKED BY TB	SCALE AS NOTED	



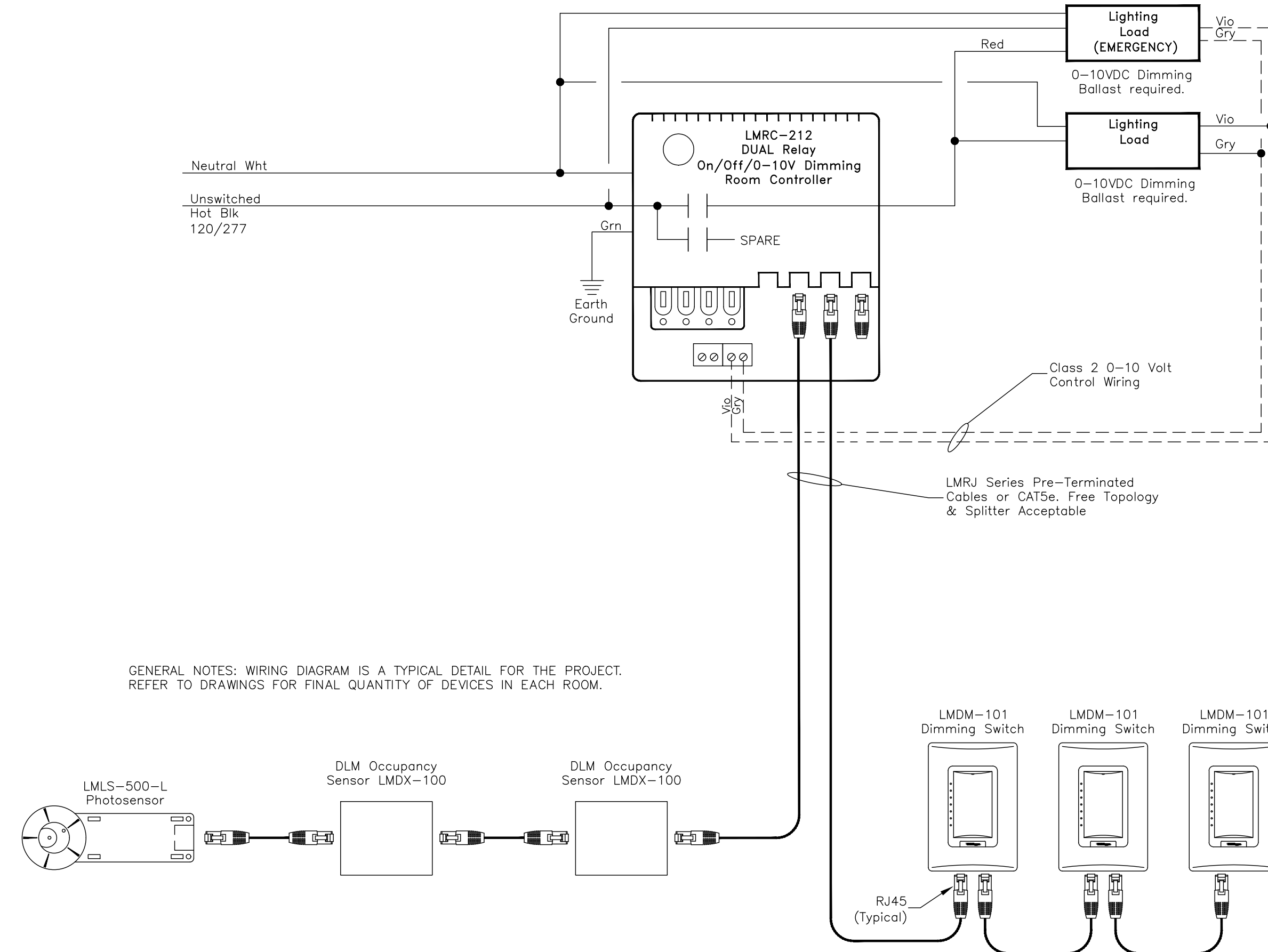
GENERAL NOTES: WIRING DIAGRAM IS A TYPICAL DETAIL FOR THE PROJECT. REFER TO DRAWINGS FOR FINAL QUANTITY OF DEVICES IN EACH ROOM.



GENERAL NOTES: WIRING DIAGRAM IS A TYPICAL DETAIL FOR THE PROJECT. REFER TO DRAWINGS FOR FINAL QUANTITY OF DEVICES IN EACH ROOM.



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GENERAL NOTES: WIRING DIAGRAM IS A TYPICAL DETAIL FOR THE PROJECT. REFER TO DRAWINGS FOR FINAL QUANTITY OF DEVICES IN EACH ROOM.

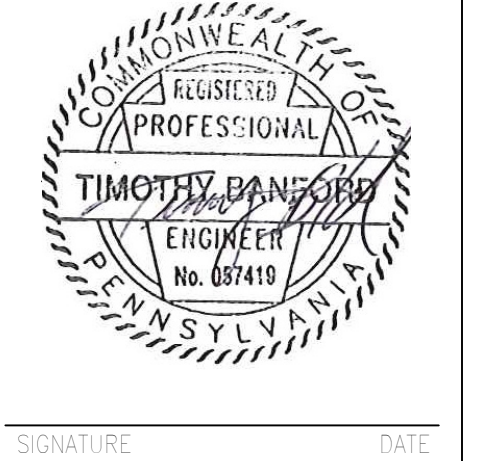
1 TYPICAL LIGHTING CONTROL WIRING DIAGRAMS (BASED ON WATTSTOPPER)

SCALE: NOT TO SCALE

VERIFY SCALE
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R/D SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
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CONSTRUCTION DOCUMENTS 04/15/2024	
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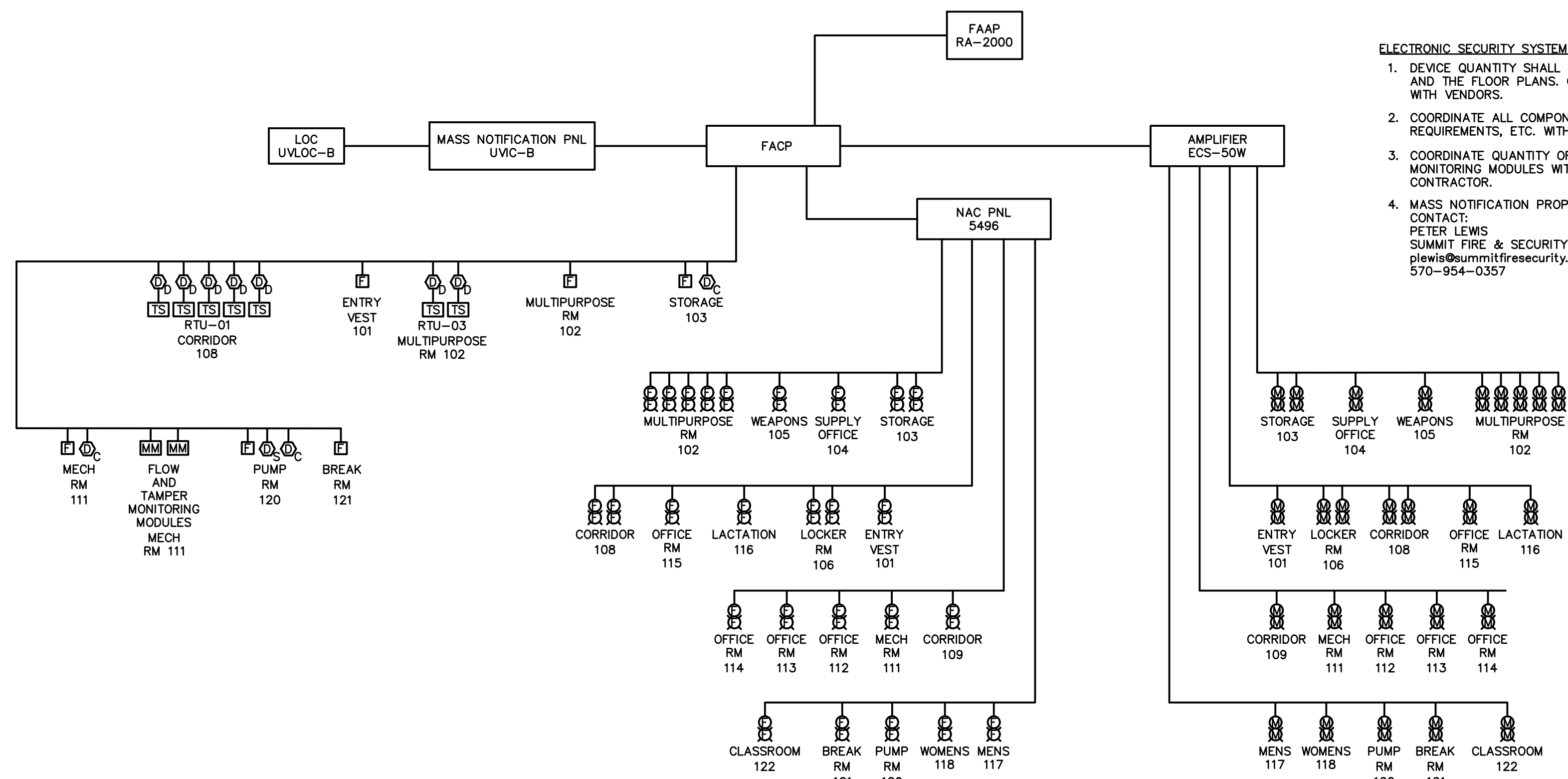
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

DGS PROJECT No.
 DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

DETAILS

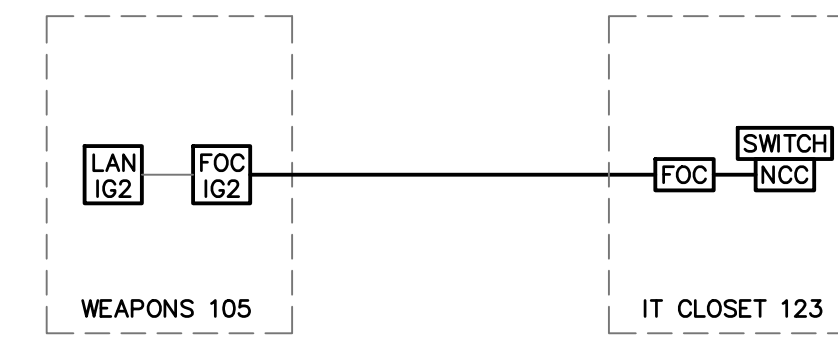
DRAWN BY: TB DATE: 08/26/2024 DRAWING No.: E-500
 CHECKED BY: TB SCALE: AS NOTED



1 FIRE ALARM/MASS NOTIFICATION RISER DIAGRAM
E501 SCALE: NOT TO SCALE

ELECTRONIC SECURITY SYSTEM (ESS) NOTES:

1. DEVICE QUANTITY SHALL BE AS SHOWN ON THE RISER AND THE FLOOR PLANS. COORDINATE FINAL QUANTITIES WITH VENDORS.
2. COORDINATE ALL COMPONENTS, LAYOUT, WIRING, POWER REQUIREMENTS, ETC. WITH PROPRIETARY VENDOR.
3. COORDINATE QUANTITY OF FLOW AND TAMPER MONITORING MODULES WITH FIRE PROTECTION CONTRACTOR.
4. MASS NOTIFICATION PROPRIETARY SYSTEM VENDOR CONTACT:
PETER LEWIS
SUMMIT FIRE & SECURITY
plewis@summitfiresecurity.com
570-954-0357

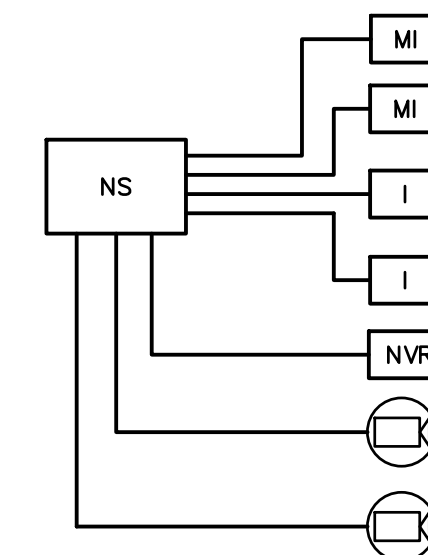


2 INTRUSION DETECTION SYSTEM RISER DIAGRAM
E501 SCALE: NOT TO SCALE

INTRUSION DETECTION SYSTEM (IDS) RISER NOTES:

1. DEVICE QUANTITY SHALL BE AS SHOWN ON THE RISER AND THE FLOOR PLANS. COORDINATE FINAL QUANTITIES WITH PROPRIETARY VENDOR.
2. COORDINATE ALL COMPONENTS, LAYOUT, WIRING, POWER REQUIREMENTS, ETC. WITH PROPRIETARY VENDOR.
3. THE IDS ITEM HAS BEEN APPROVED BY THE DEPARTMENT AS A PROPRIETARY ITEM. NO OTHER ITEM WILL BE ACCEPTED. SECTION 9.6 AND 9.7 OF THE GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT DOES NOT APPLY TO THE ABOVE ITEM. PROPRIETARY SYSTEM VENDOR CONTACT:
EMILY A. STAGGS
DIRECTOR OF SALES AND DESIGN
ADVANTOR SYSTEMS CORPORATION
STAGGS@ADVANTOR.COM
407-926-8929 OFFICE
407-375-3518 CELL

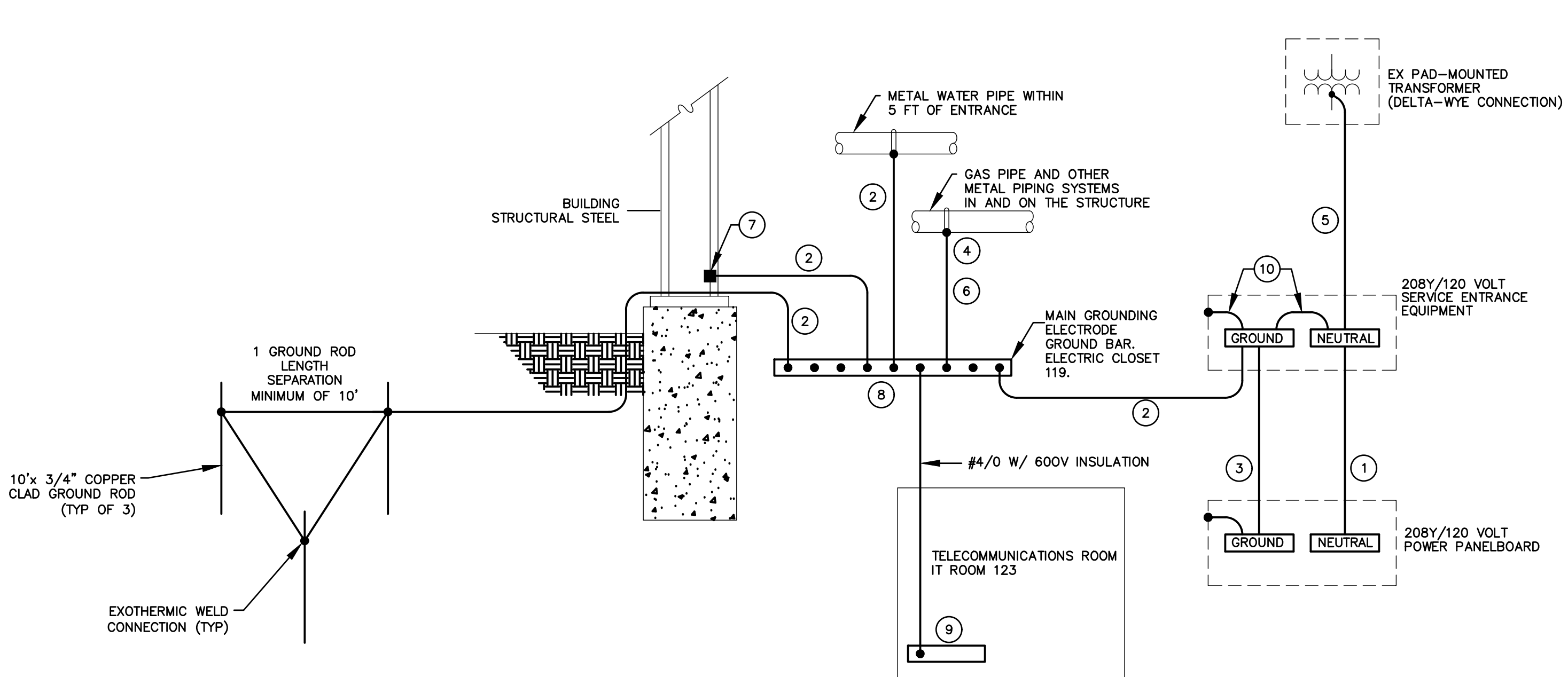
ADVANTOR INTRUSION DETECTION SYSTEM (IDS)



3 ELECTRONIC SECURITY SYSTEM RISER DIAGRAM
E501 SCALE: NOT TO SCALE

ELECTRONIC SECURITY SYSTEM (ESS) RISER NOTES:

1. DEVICE QUANTITY SHALL BE AS SHOWN ON THE RISER AND THE FLOOR PLANS. COORDINATE FINAL QUANTITIES WITH PROPRIETARY VENDOR.
2. COORDINATE ALL COMPONENTS, LAYOUT, WIRING, POWER REQUIREMENTS, ETC. WITH PROPRIETARY VENDOR.
3. THE ESS ITEM HAS BEEN APPROVED BY THE DEPARTMENT AS A PROPRIETARY ITEM. NO OTHER ITEM WILL BE ACCEPTED. SECTION 9.6 AND 9.7 OF THE GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT DOES NOT APPLY TO THE ABOVE ITEM. PROPRIETARY SYSTEM VENDOR CONTACT:
PETER LEWIS
SUMMIT FIRE & SECURITY
plewis@summitfiresecurity.com
570-954-0357



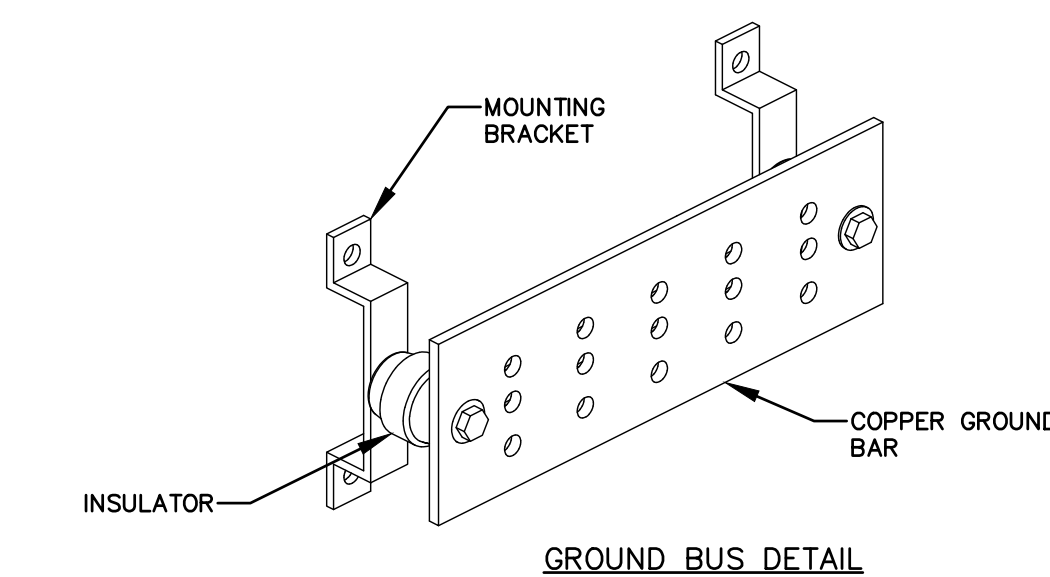
4 GROUNDING SYSTEM DETAIL
E501 SCALE: NOT TO SCALE

KEYED NOTES

1. INSTALL GROUNDED (NEUTRAL) CONDUCTOR AS INDICATED ON ELECTRICAL SINGLE LINE.
2. INSTALL 2/0 GROUNDING ELECTRODE CONDUCTOR.
3. INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE. REFER TO ELECTRICAL SINGLE LINE.
4. BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
5. EXISTING/EXTENDED GROUNDED (NEUTRAL) CONDUCTOR AS INDICATED ON ELECTRICAL SINGLE LINE.
6. INSTALL 2/0 BONDING JUMPER.
7. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.
8. INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
9. INSTALL A COPPER GROUNDING BAR IN MAIN TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED 4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
10. INSTALL 2/0 BONDING CONDUCTOR.

GENERAL NOTES

1. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
2. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
4. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
5. BOND HOT AND COLD WATER PIPING SYSTEMS.
6. MINIMUM BURIAL DEPTH OF 30".



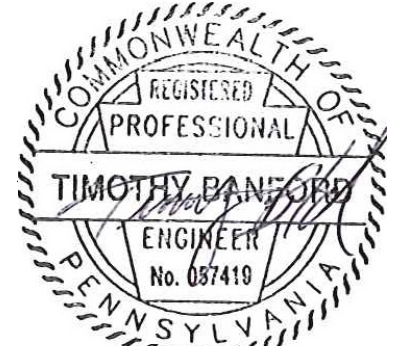
GROUNDING BUS GENERAL NOTES:

1. REFER TO GROUNDING DETAIL AND FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
2. GROUND BAR SHALL BE SIZED PER NUMBER OF GROUND CONNECTIONS AT GROUND BAR PLUS 20% FOR FUTURE CONNECTIONS.

5 GROUNDING BUS DETAIL
E501 SCALE: NOT TO SCALE

R/D SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024

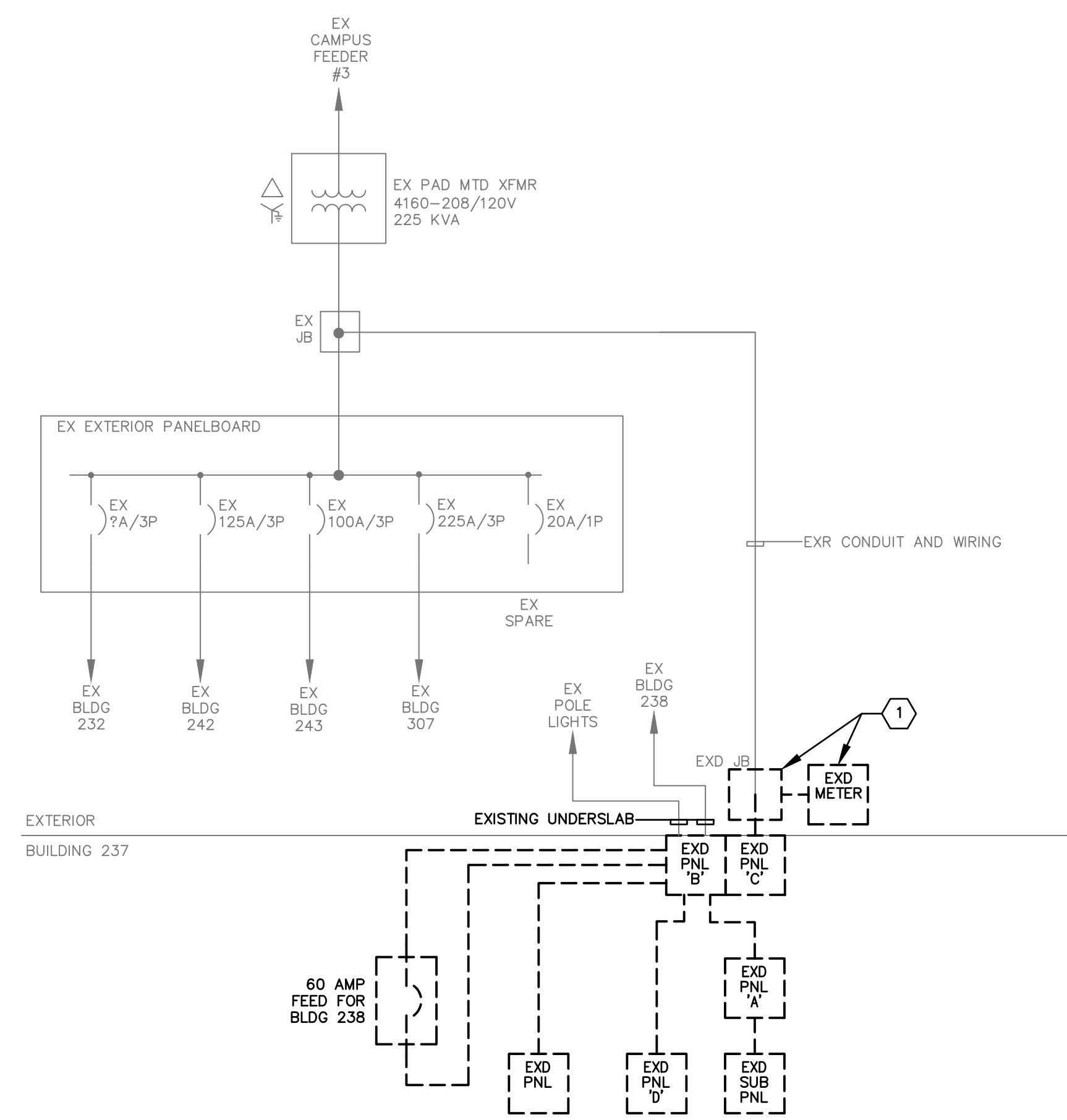


ZIMMERMAN STUDIO
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

DGS PROJECT No.
DGS C-0961-0044 PHASE 01

VERIFY SCALE	DRAWING No. E-501	
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1		
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY		
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY TB	DATE 08/26/2024
	CHECKED BY TB	SCALE AS NOTED



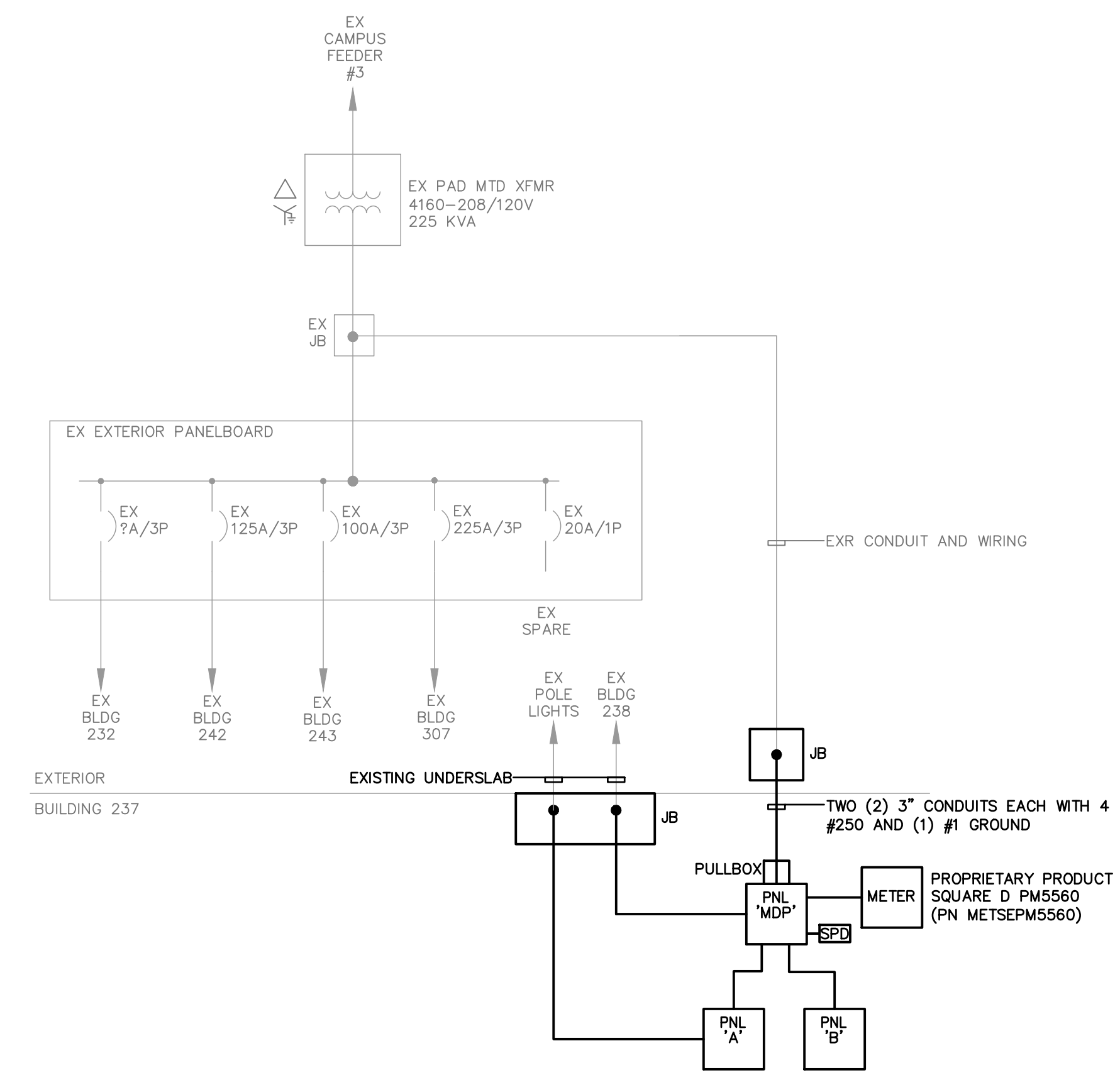
1 DEMOLITION SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

GENERAL NOTES:

- REFER TO PANEL SCHEDULES FOR ADDITIONAL CONDUIT AND WIRING SIZING.

DEMOLITION NOTES:

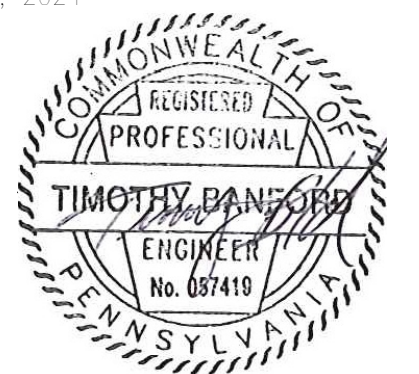
- REMOVE EXISTING METER. REMOVE EXISTING CURRENT TRANSFORMERS IN THE JUNCTION BOX AND ALL CONDUIT AND WIRING ASSOCIATED WITH METER.



2 NEW WORK SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

R/D SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS	
Construction Document - August 26, 2024	



SIGNATURE DATE



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

DGS PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

SINGLE LINE DIAGRAMS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-600
CHECKED BY TB	SCALE AS NOTED	

