

PENNSYLVANIA GAME COMMISSION

PROJECT NO. PGC-165-23-01

STATE GAME LANDS #165

NEW 40' x 80' CREW HEADQUARTERS BUILDING

SHAMOKIN TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 1: GENERAL CONSTRUCTION CONTRACT NO. 2: MECHANICAL CONSTRUCTION

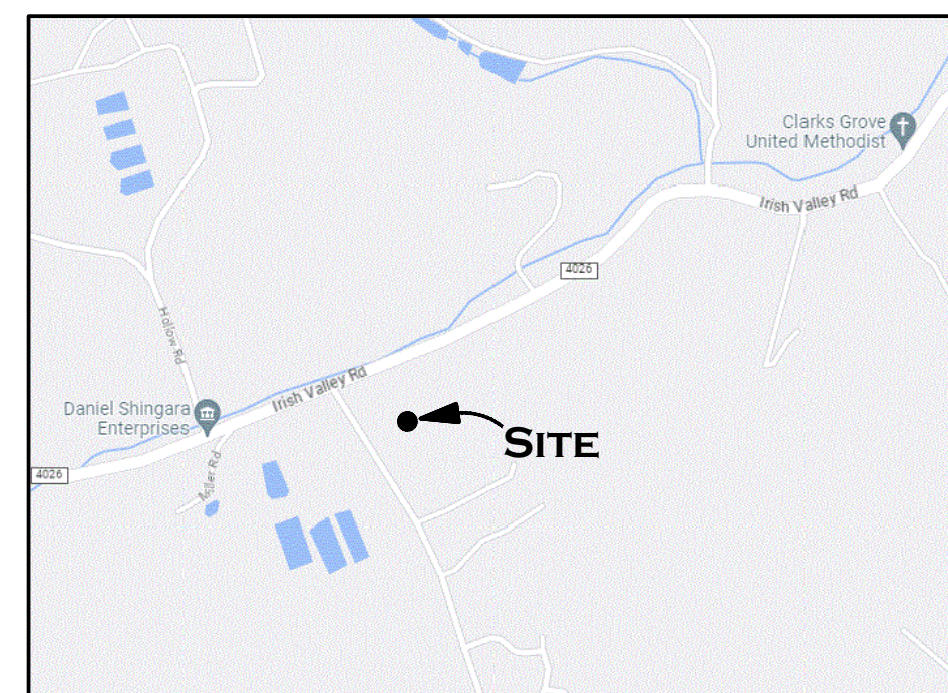
CONTRACT NO. 3: PLUMBING CONSTRUCTION CONTRACT NO. 4: ELECTRICAL CONSTRUCTION

SITE PLAN GENERAL NOTES:

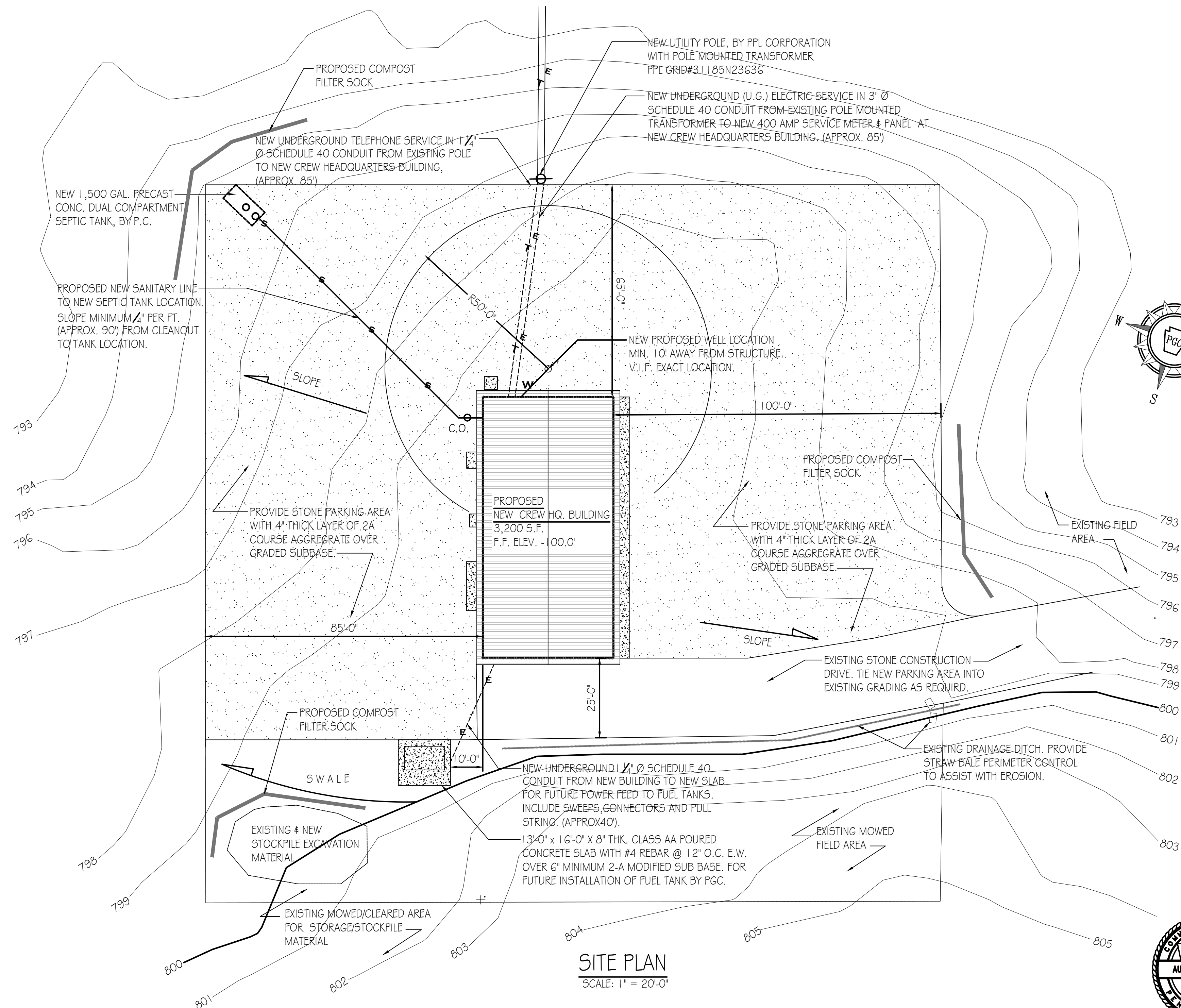
- UTILITY LINE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. UNDERGROUND TELEPHONE, ELECTRIC, GAS, SANITARY SEWER, WATER AND STORMWATER DRAINAGE LINES MAY BE PRESENT AT SOME WORK LOCATIONS. FIELD VERIFICATION IS REQUIRED PRIOR TO ANY CONSTRUCTION. CONTACT PA ONE CALL AND COMPLY WITH ACT 287 (AS AMENDED) REGARDING LOCATIONS OF UNDERGROUND UTILITIES.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT, THE LOCAL MUNICIPALITY AND THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL COORDINATE WITH AFFECTED UTILITY COMPANIES IN THE EVENT ITEMS SUCH AS TEMPORARY POLE SUPPORT IS REQUIRED. THIS WORK SHALL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING DRAINAGE FACILITIES SHALL REMAIN INTACT DURING CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL AREAS DISTURBED BY THE CONSTRUCTION WORK SHALL BE RESTORED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS TO THEIR ORIGINAL CONDITION OR BETTER.
- ALL DISTURBED AREAS NOT RECEIVING OTHER SURFACE TREATMENT SHALL BE GRADED, SEEDED, AND MULCHED.
- CONTRACTOR SHALL REFER TO CONTRACT DOCUMENTS FOR SOIL EROSION & SEDIMENTATION CONTROL PLAN REQUIREMENTS.
- MAINTAIN ACCESS TO DRIVEWAYS AND ENTRANCES LOCATED ALONG THE PROJECT.
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION VEHICLES (INCLUDING MATERIAL SUPPLIER VEHICLES) LEAVING THE PROJECT AREA HAVE MUD BUILDUP REMOVED FROM THE TIRES BEFORE EXITING ONTO PAVED ROADWAYS. ALL MUD TRACKED ONTO PAVED ROADWAYS SHALL BE IMMEDIATELY REMOVED FROM THE ROADWAY.



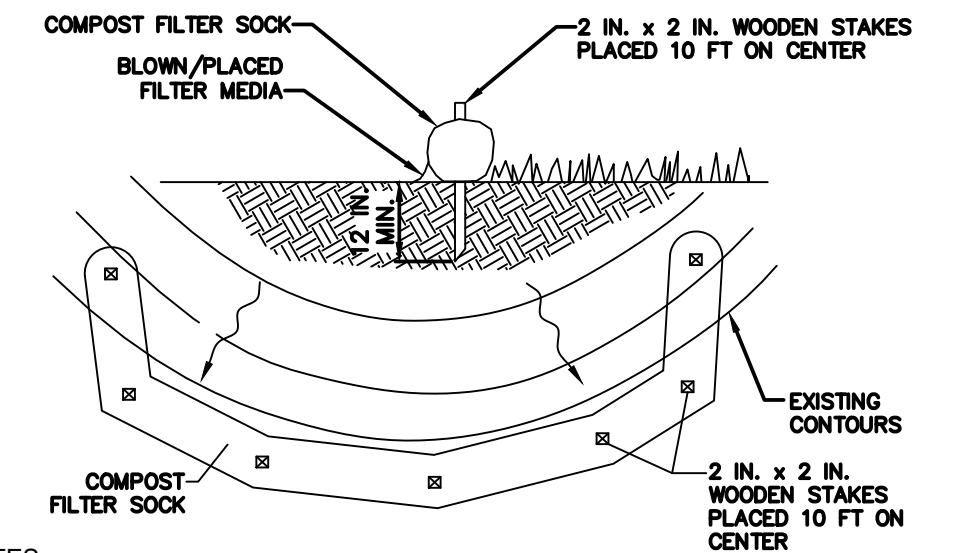
AERIAL LOCATION MAP
NOT TO SCALE



PROJECT VICINITY MAP
NOT TO SCALE



SITE PLAN
SCALE: 1" = 20'-0"



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.

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

ES&S NOTES:
ALL EXCESS FILL MATERIAL TO BE STORED AND/OR DISPOSED OF SHALL BE OUTSIDE OF THE 50' FLOODPLAIN, AT AN UPLAND LOCATION ON EXISTING ROADWAY.

SILT SOCK SHALL BE PLACED AROUND ALL STOCKPILED MATERIALS.

THE PGC WILL STABILIZE ALL DISTURBED AREAS IMMEDIATELY AFTER ALL EARTH DISTURBANCE ACTIVITIES CEASE. DURING NON-GERMINATION PERIODS, MULCH MUST BE APPLIED AT A RATE OF 1.2 LBS./SY.

IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL TO ACCELERATE EROSION/SEDIMENTATION, THE PGC SHALL IMPLEMENT ADDITIONAL APPROPRIATE BMPs TO MITIGATE THE PROBLEM.

THE PGC SHALL NOTIFY DEP OF ANY REVISION TO THIS PLAN FOR REVIEW AND APPROVAL PRIOR TO INITIATING ANY CHANGES.

ALL CONSTRUCTION WASTE WILL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL DEP SOLID WASTE MANAGEMENT REGULATIONS; 25 PA CODE 260.1 ET SEQ. 271.1 ET SEQ. NO WASTE SHALL BE BURIED, BURNED, OR DUMPED AT THE SITE.

ALL SEDIMENT COLLECTED FROM BMPs SHALL BE RESTORED TO UPLAND AREAS AND STABILIZED. BMPs SHALL NOT BE REMOVED UNTIL 70% VEGETATIVE COVER IS ESTABLISHED ACROSS THE ENTIRE PROJECT AREA. EXPOSED ROAD SURFACE SHALL BE COVERED WITH A 4-INCH LAYER OF COMPACTED #2A COARSE AGGREGATE.

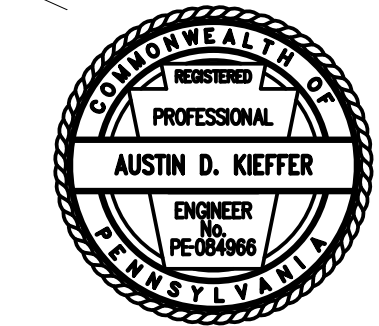
PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL COVER OR OTHER MEANS WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION.

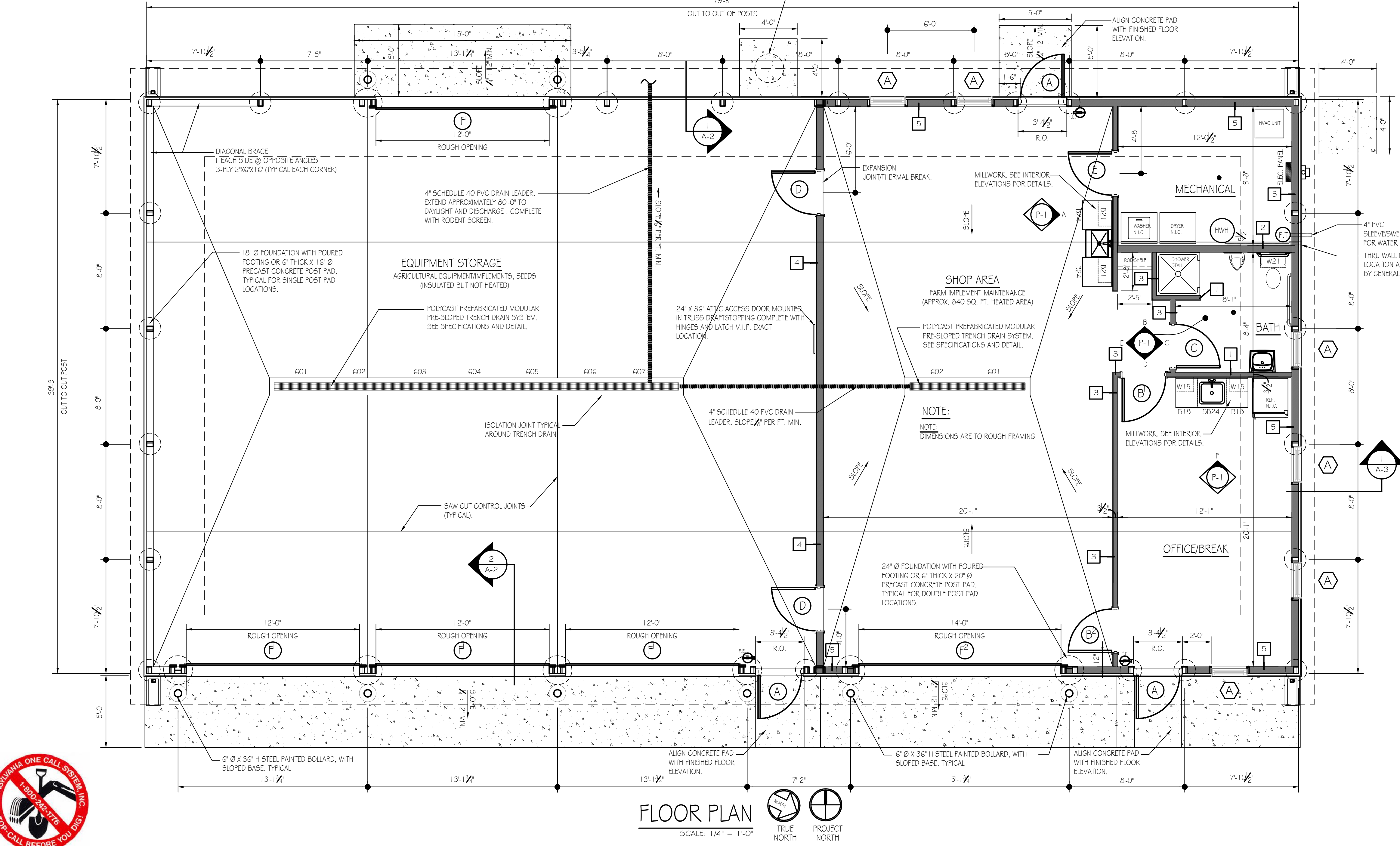
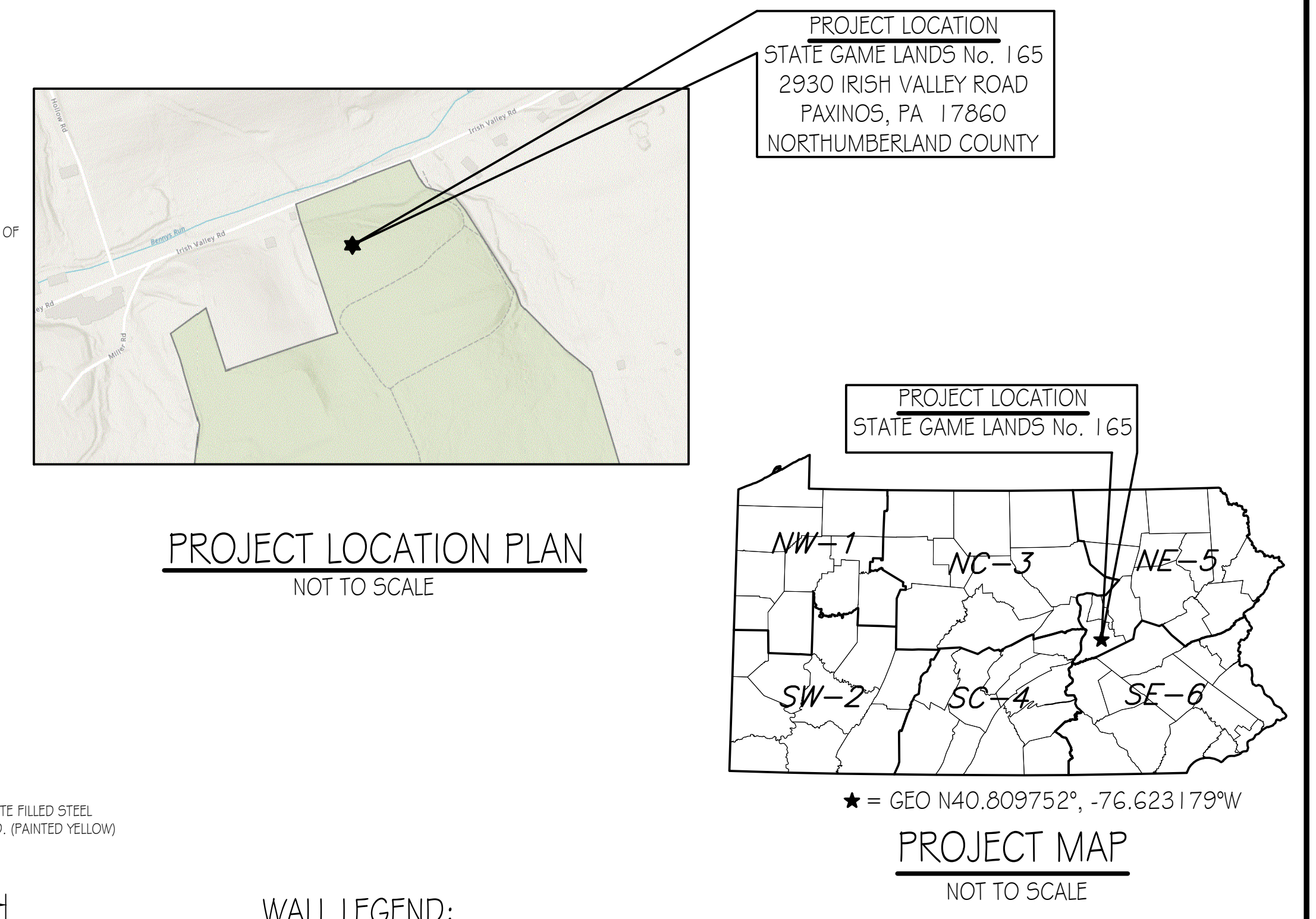
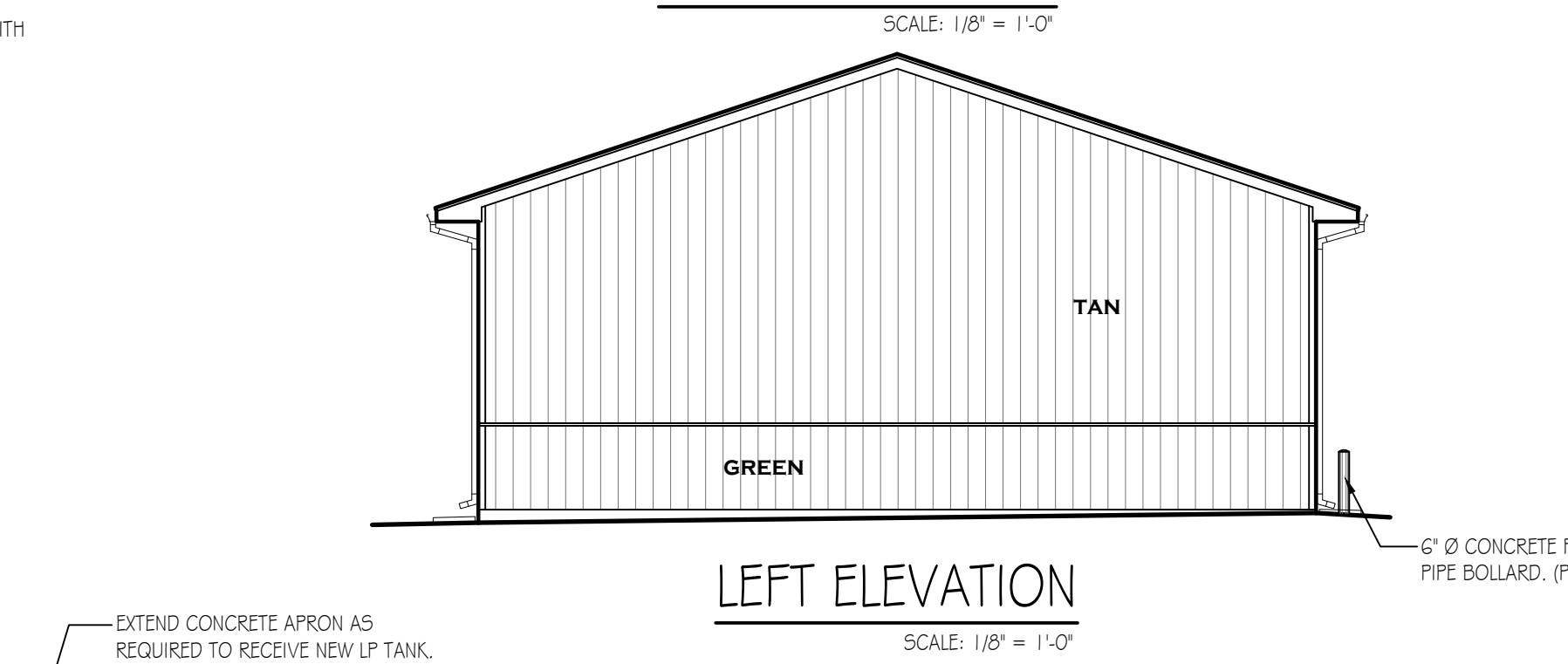
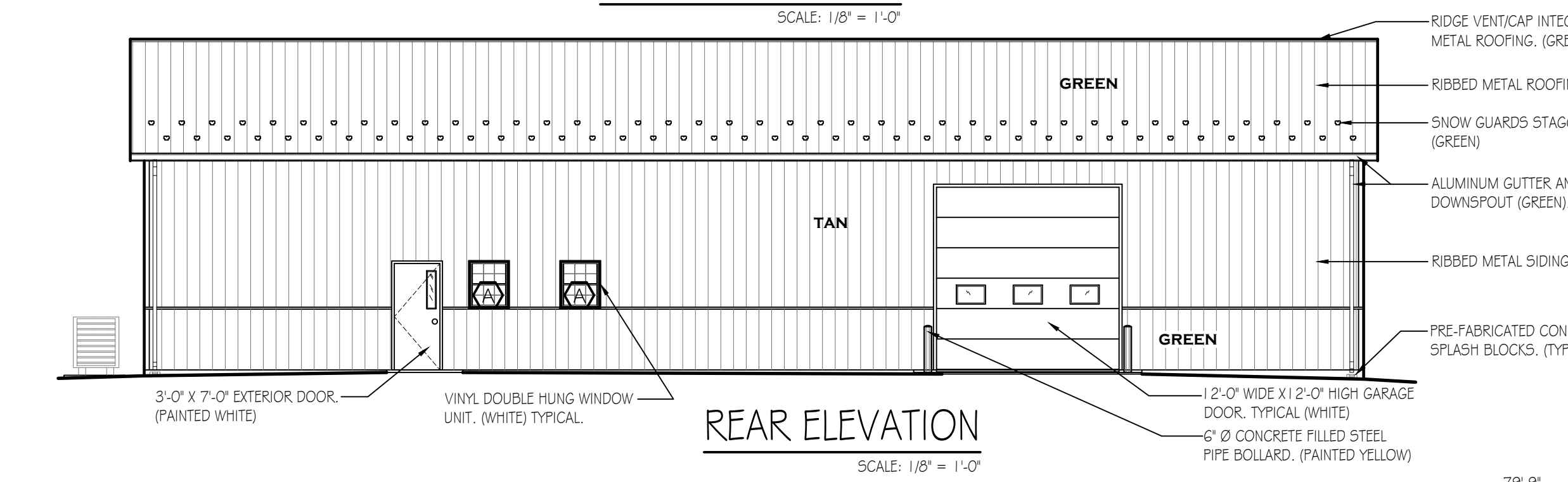
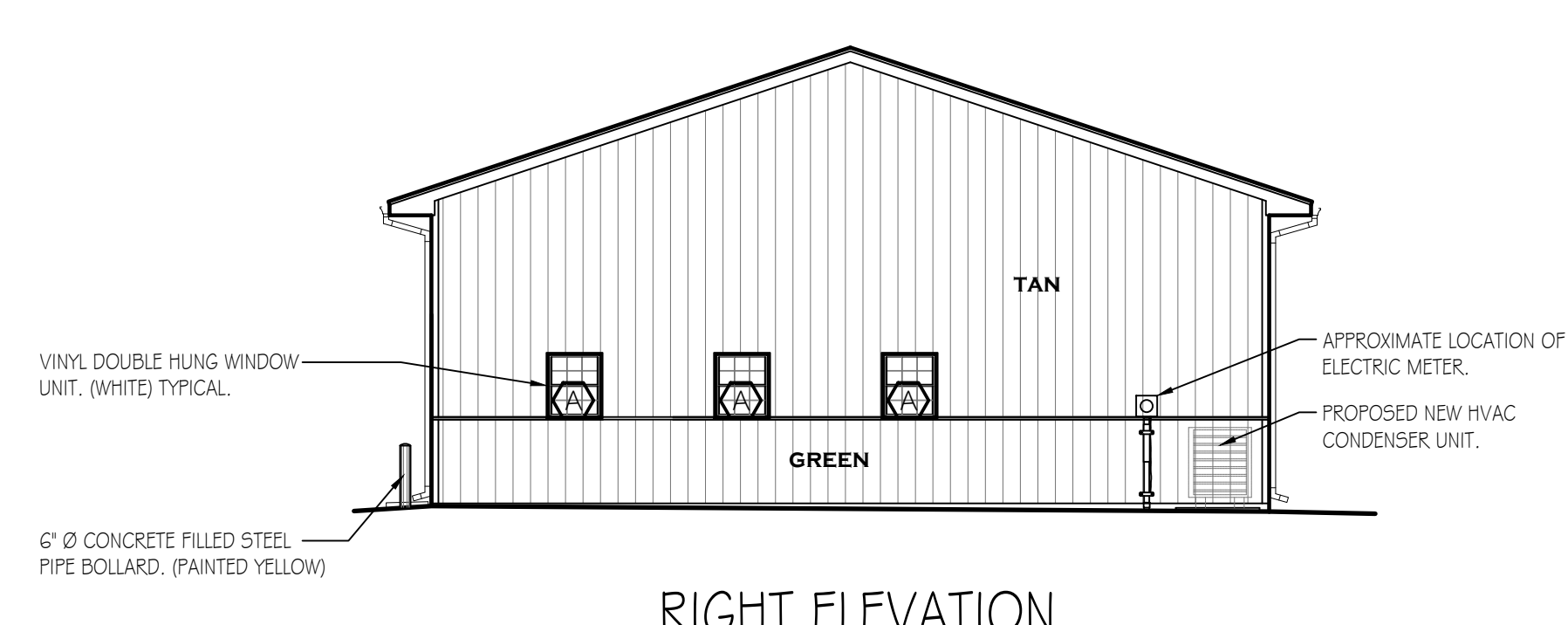
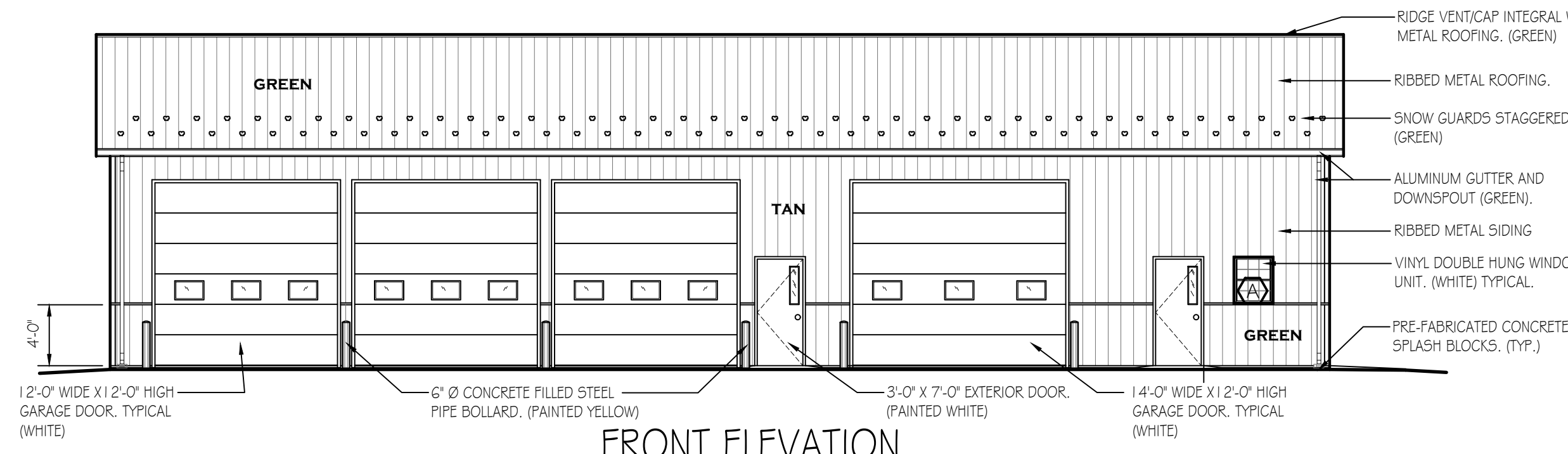
ALL BMPs SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. MAINTENANCE OF BMPs INCLUDES WEEKLY INSPECTIONS AND AFTER EACH RAINFALL EVENT. IF A BMP FAILS TO PERFORM AS EXPECTED, REPLACEMENT AND MEDICATION MAY BE NECESSARY.

DRAWING INDEX

- CS-1 COVER SHEET & BUILDING SITE PLAN
- A-1 BUILDING FLOOR PLAN & ELEVATIONS
- A-2 WALL SECTION & DETAILS
- A-3 SECTIONS, DETAILS, SCHEDULES & REFLECTED CEILING PLAN
- P-1 PLUMBING FLOOR PLAN, ELEVATIONS & DETAILS
- M-1 MECHANICAL FLOOR PLAN & DETAILS
- E-1 ELECTRICAL FLOOR PLAN, SCHEDULES & DETAILS

PENNSYLVANIA GAME COMMISSION		
SGL # 165	SHAMOKIN TOWNSHIP	NORTHUMBERLAND COUNTY
NEW 40'x80' CREW HEADQUARTERS BUILDING		
COVER SHEET & BUILDING SITE PLAN		
REVISIONS		
PROJECT NO.	PGC-165-23-01	
DRAWN BY:	M. SPOTTS	
DATE:	10/16/2023	
SHEET NO.	CS-1	





- WALL LEGEND:**
- 2"x4" WOOD STUDS @ 16" O.C. EXTEND TOP OF WALL TO 10'-0" A.F.F. PROVIDE OSB OR PLYWOOD SHEATHING WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. TYPICAL FOR OFFICE/BREAK, BATH & MECHANICAL ROOM SIDES. PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (SHOP AREA SIDE).
 - 2"x6" WOOD STUDS @ 16" O.C. EXTEND TOP OF WALL TO 10'-0" A.F.F. PROVIDE OSB OR PLYWOOD SHEATHING WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. TYPICAL FOR OFFICE/BREAK, BATH & MECHANICAL ROOM. PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (SHOP AREA SIDE). PROVIDE OSB OR PLYWOOD SHEATHING OVER 1" THICK R-5 INSULATION BOARD FULL HEIGHT TO UNDERSIDE OF TRUSSES. (EQUIPMENT STORAGE SIDE).
 - 2"x4" WOOD STUDS @ 16" O.C. EXTEND TO UNDERSIDE OF ROOF TRUSSES (APPROX ± 13'-9"). PROVIDE OSB OR PLYWOOD SHEATHING WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (OFFICE/BREAK, BATH & MECHANICAL ROOM). PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (SHOP AREA SIDE). PROVIDE OSB OR PLYWOOD SHEATHING OVER 1" THICK R-5 INSULATION BOARD FULL HEIGHT TO UNDERSIDE OF TRUSSES. (EQUIPMENT STORAGE SIDE).
 - 2"x6" WOOD STUDS @ 16" O.C. WITH R-20 BATT INSULATION (FULL HGT.) EXTEND TO UNDERSIDE OF ROOF TRUSSES (APPROX ± 13'-9"). PROVIDE OSB OR PLYWOOD SHEATHING WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (OFFICE/BREAK, BATH & MECHANICAL ROOM). PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (SHOP AREA SIDE). PROVIDE OSB OR PLYWOOD SHEATHING OVER 1" THICK R-5 INSULATION BOARD FULL HEIGHT TO UNDERSIDE OF TRUSSES. (EQUIPMENT STORAGE SIDE).
 - 2"x6" WOOD INFILL STUDS BETWEEN LAMINATED SUPPORT COLUMNS/POSTS @ 16" O.C. FULL HEIGHT TO UNDERSIDE OF TRUSSES OR HEADER/TRUSS SEAT. WITH R-20 BATT INSULATION (FULL HGT.) PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP (FIBERGLASS REINFORCED WALL PANELS) WALL FINISH EXTENDED TO 8'-0" A.F.F. TYPICAL FOR OFFICE/BREAK, BATH & MECHANICAL ROOM SIDES. PROVIDE OSB OR PLYWOOD SHEATHING FULL HEIGHT WITH FRP FINISH EXTENDED TO 8'-0" A.F.F. AND METAL SIDING ABOVE EXTENDED TO METAL CEILING (SHOP AREA SIDE).

BUILDING CODE SUMMARY

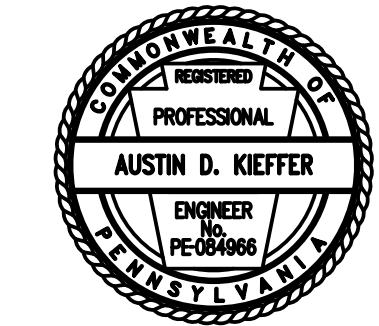
Code: International Building Code, 2018 edition

Scope: Construction of a new 40' x 80' Crew Headquarters Building on State Game Lands No. 165 in Shamokin Township, Northumberland County. The new building shall include accommodations for PGC maintenance staff and storage of excavation equipment, implements and tools necessary for maintaining state game land grounds and roadways.

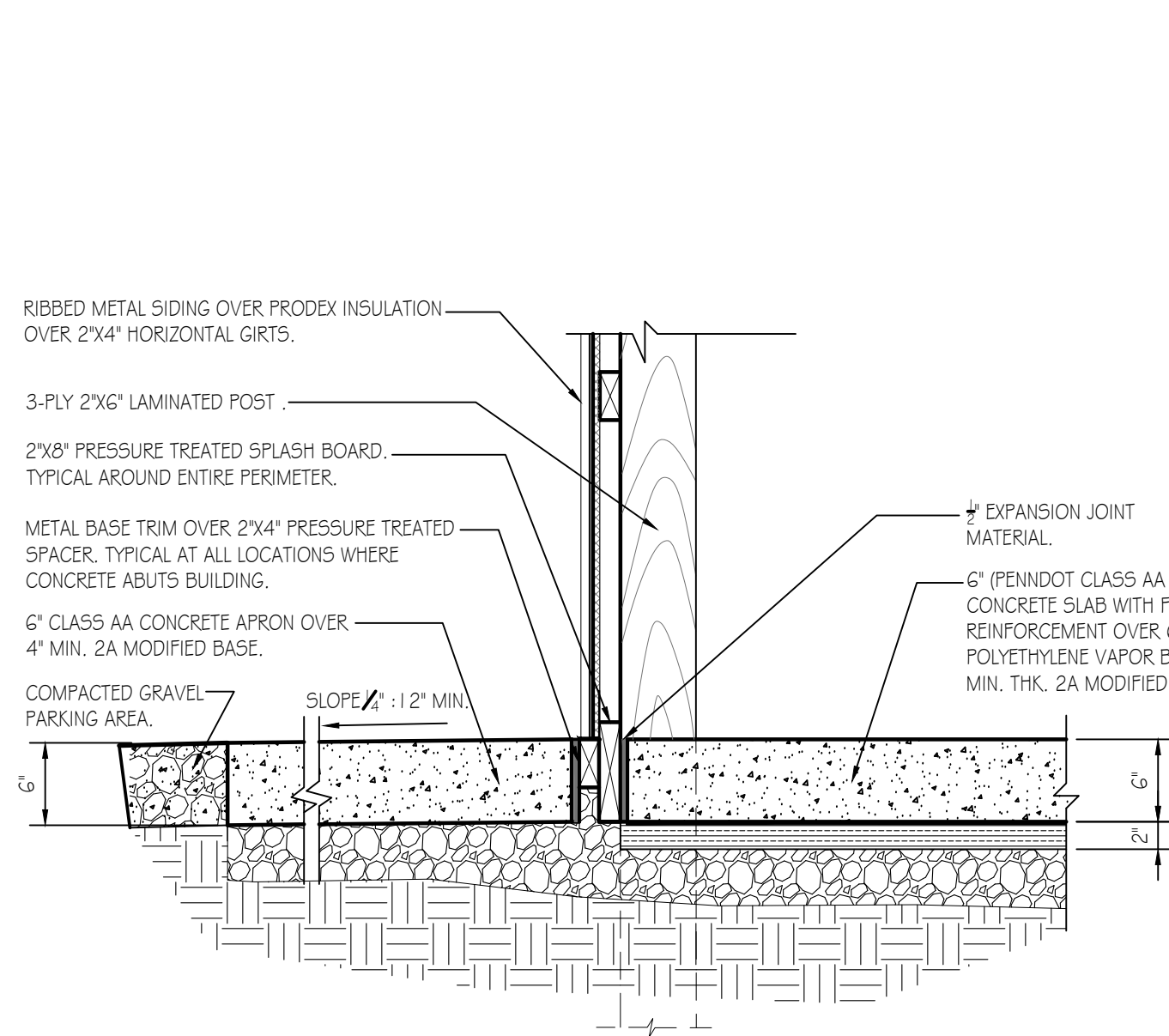
Summary:
 Use & Occupancy Group: 304.1 B Building occupied portion for Office
 3.11.1 5-1, Building portion used for Storage that are not 5-2.
 Construction Type: VB (Table 601)
 New Building Area: 3,200s.f.
 Allowable Area: 9,000 s.f. (Table 506.2)
 Building Stones: 1 Story, No basement, Allowable Stones: 1 Table 504.4)
 Fire Protection: No fire suppression, not required.
 Fire Extinguishers: Units of "A" = 3,200 / 1,500 = 2.13 ~ 3 (Table 906.3(1)) Fire extinguisher shall be provided at each of the two building exits and one at the opposite end of building near OH door.

Occupant Load:
 Business, Occupancy Factor = 150 gross
 465 S.F./150 = 3.1 ~ 4 persons
 Storage, Occupancy Factor = 300 gross
 2,735 S.F./300 = 9.1 ~ 10 persons

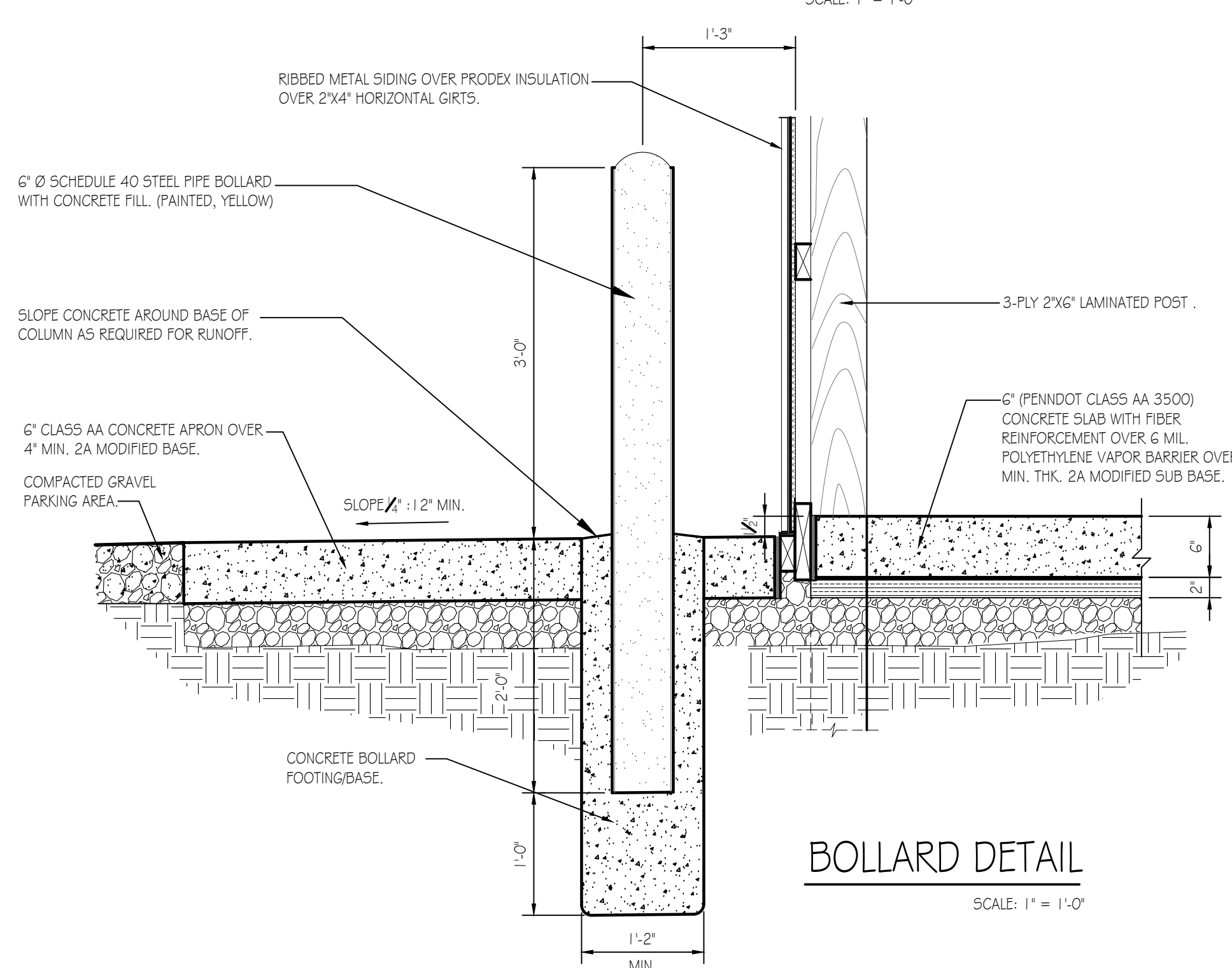
Egress Width:
 108 x 0.2 inches = 21.6 inches min. (1005.3.2).
 Means Of Egress: 3 Exits provided = 108 inches; 1 required (Table 1006.3.3(2))
 Accessibility: Not required, per building use and occupancy requesting exemption/variance from PA L&I, A.A.B.
 Energy Efficiency: Building/structure to be partially heated and air conditioned.
 Heated area: Crew Area + Shop Area = 1,260 S.F.



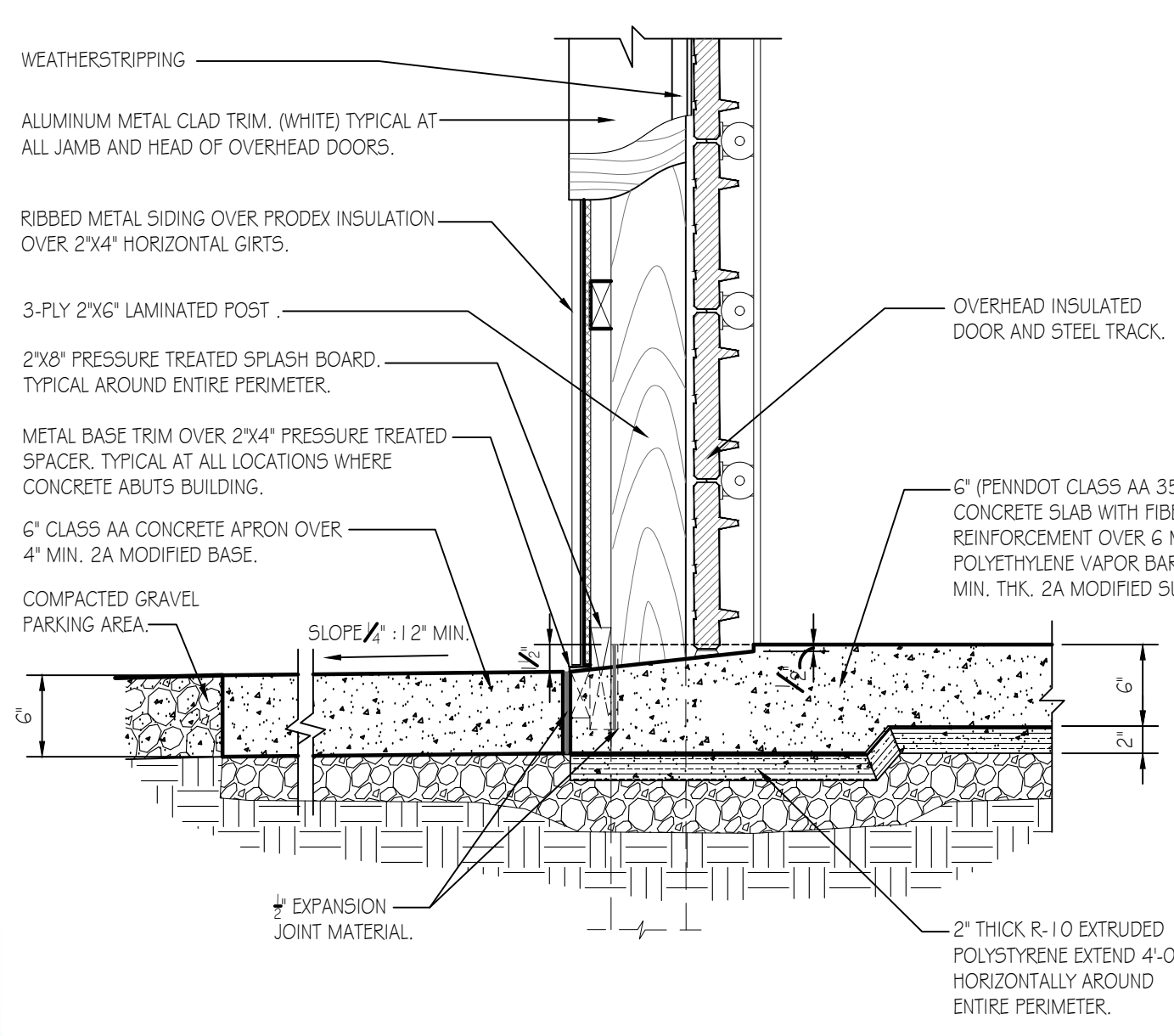
PENNSYLVANIA GAME COMMISSION		
SGL # 165	SHAMOKIN TOWNSHIP	NORTHUMBERLAND COUNTY
NEW 40x80' CREW HEADQUARTERS BUILDING		
BUILDING PLAN & ELEVATIONS		
REVISIONS	PROJECT NO.	PGC-165-23-01
	DRAWN BY:	M. SPOTTS
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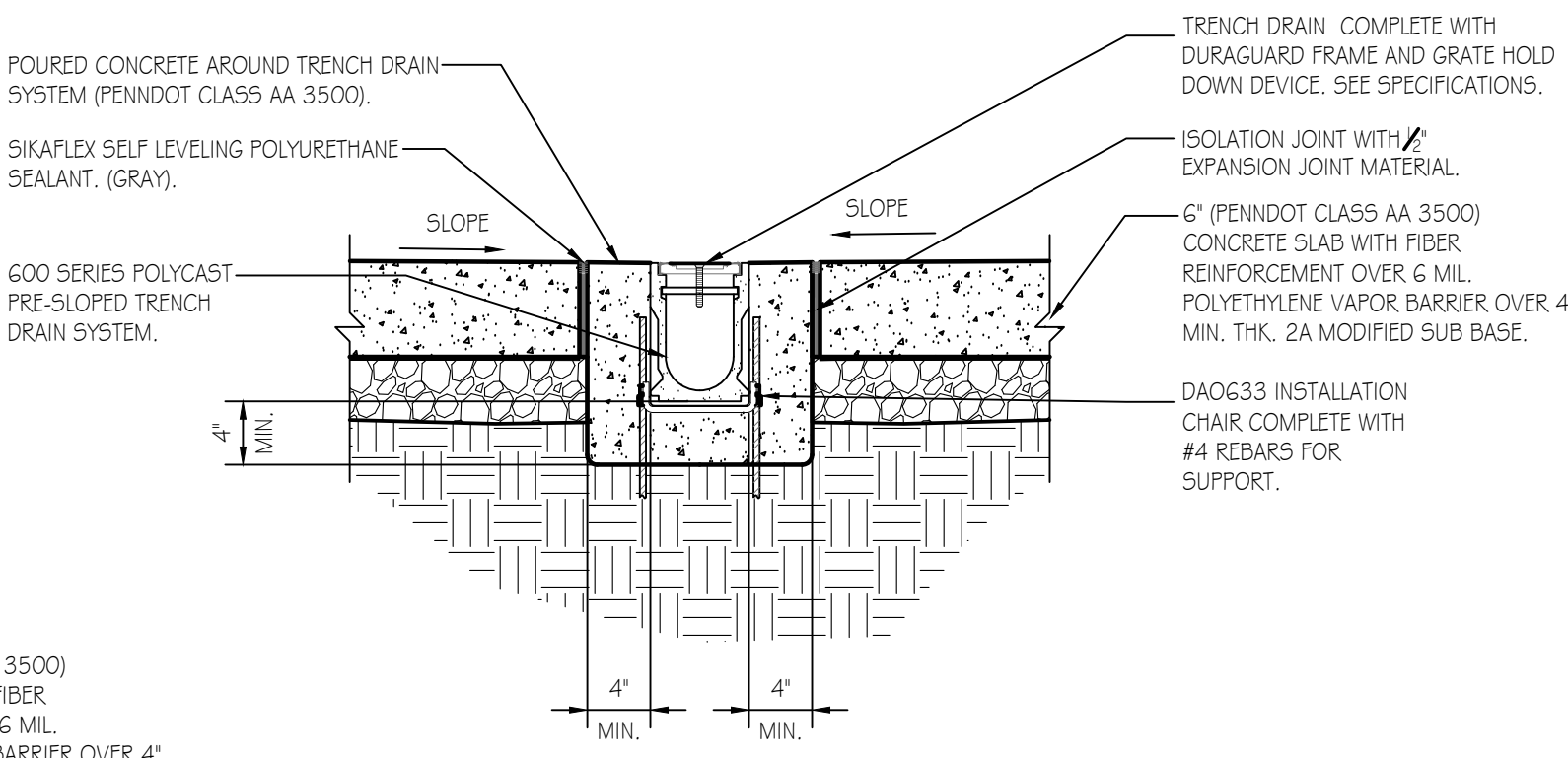
DETAIL @ CONCRETE SIDEWALK
SCALE: 1" = 1'-0"



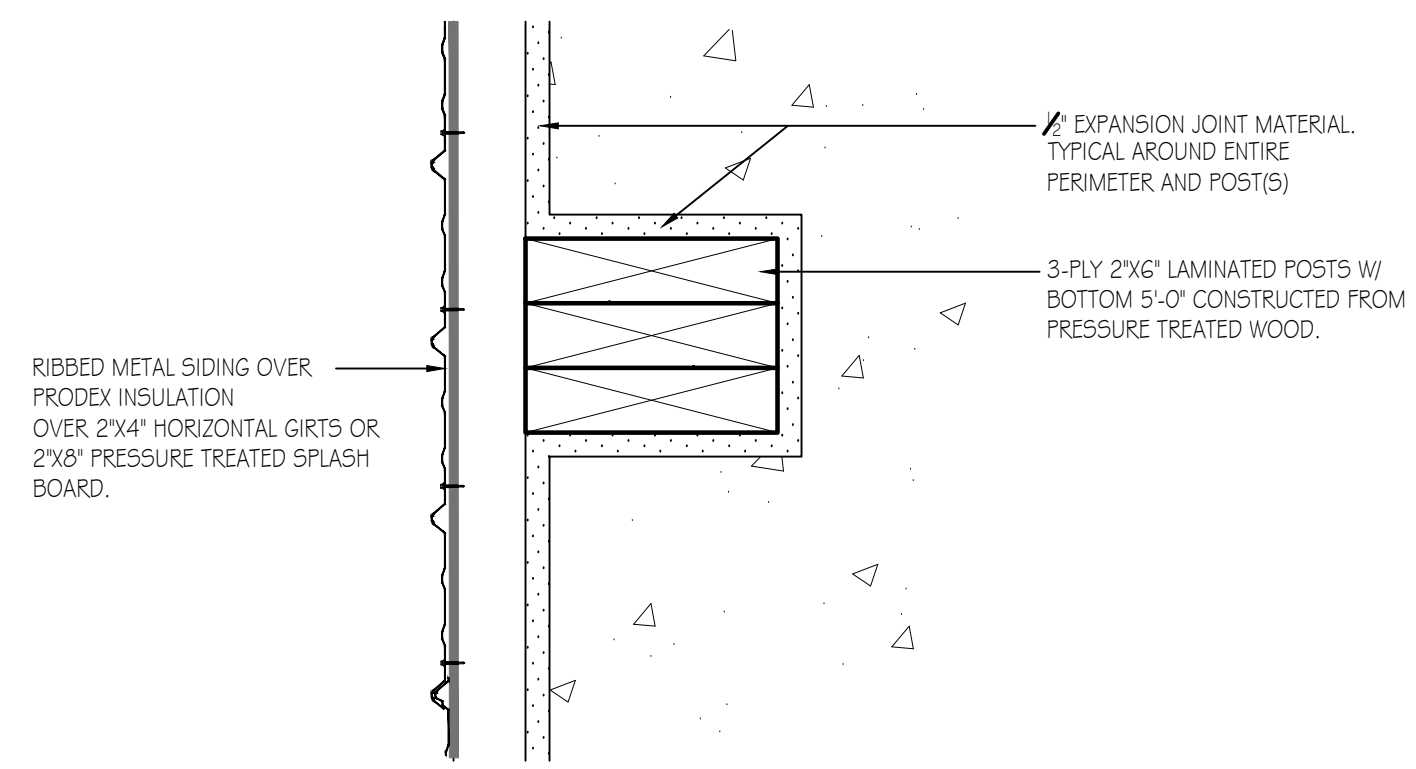
BOLLARD DETAIL
SCALE: 1" = 1'-0"



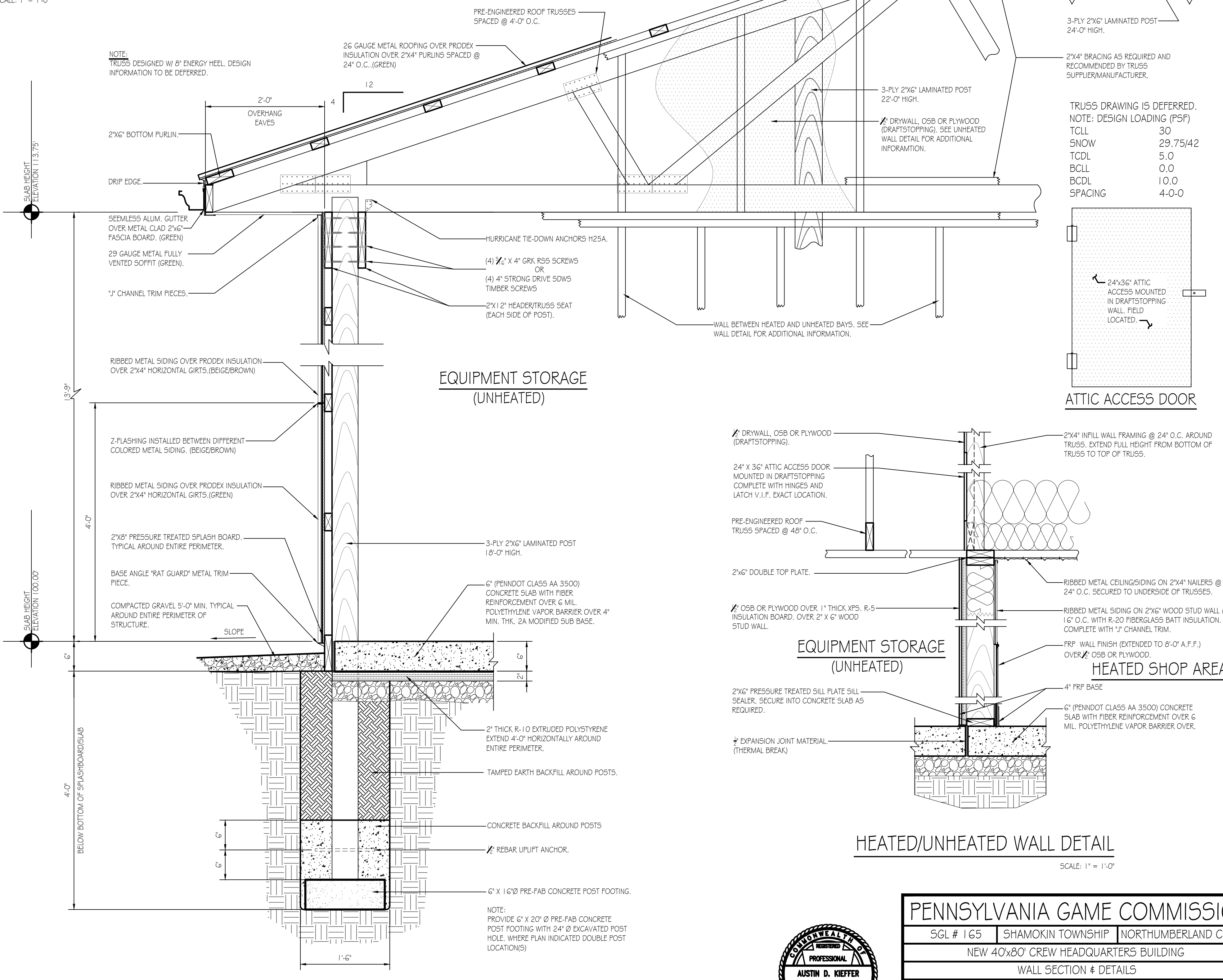
O.H. DOOR SILL AND JAMB DETAIL
SCALE: 1" = 1'-0"



TRENCH DRAIN DETAIL
SCALE: 1" = 1'-0"



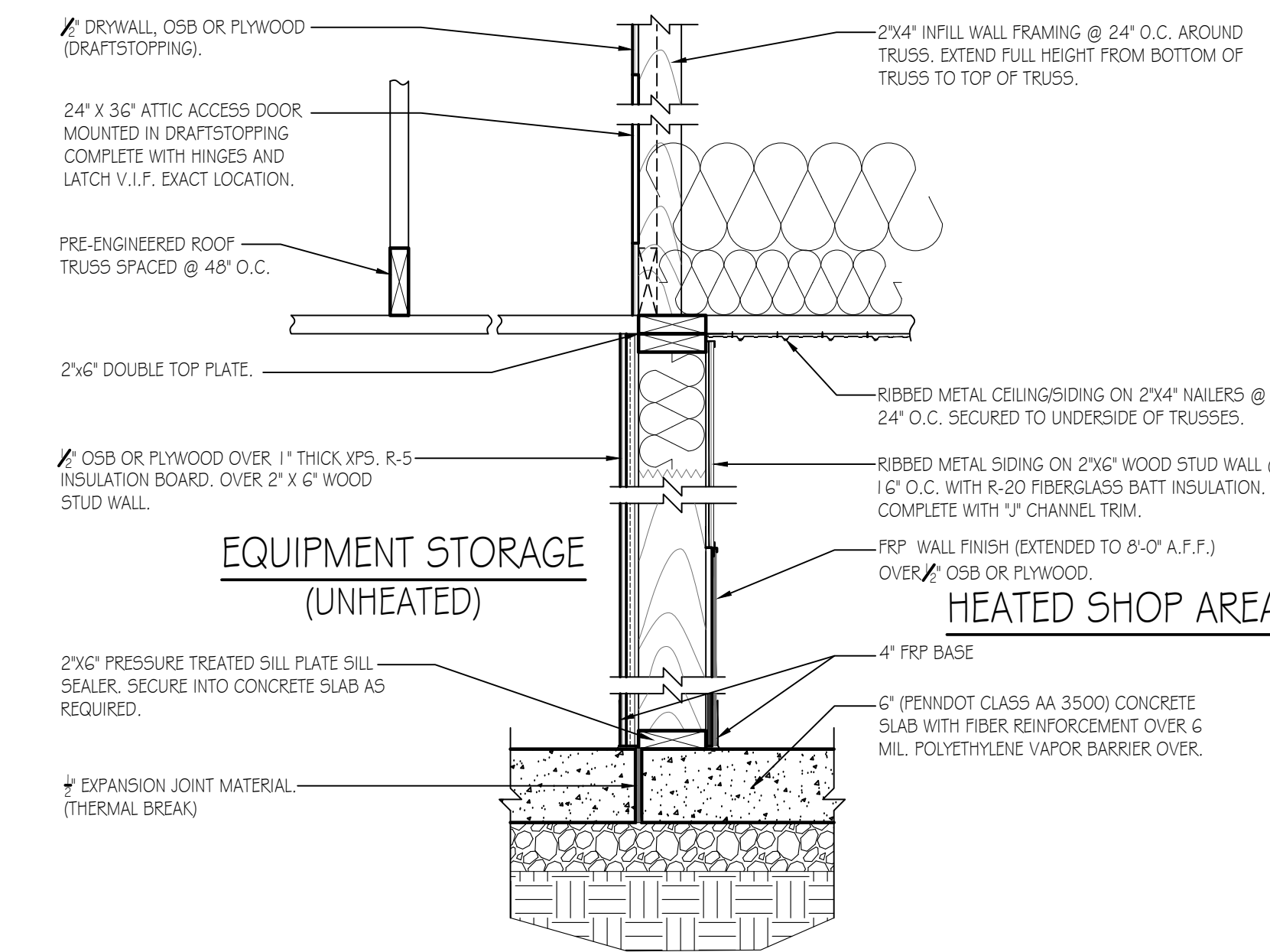
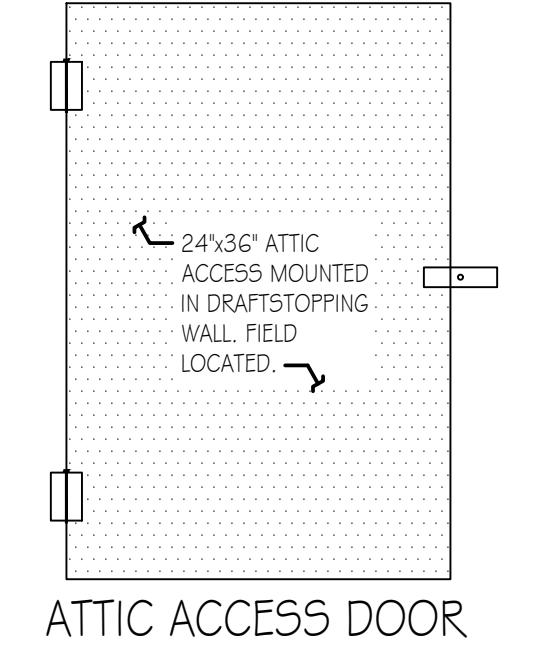
DETAIL AT POSTS
SCALE: 3" = 1'-0"



WALL SECTION DETAIL
SCALE: 1" = 1'-0"

TRUSS DRAWING IS DEFERRED.
NOTE: DESIGN LOADING (P5F)

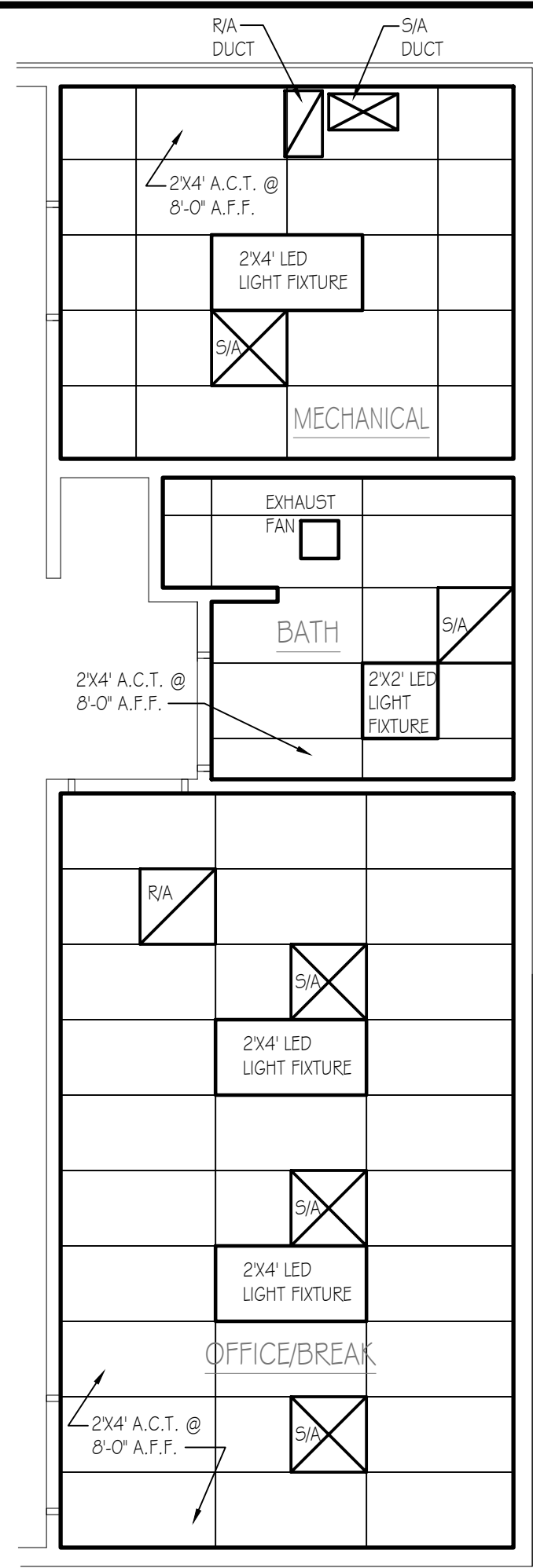
TCLL	30
SNOW	29.75/42
TCDL	5.0
BCLL	0.0
BCDL	10.0
SPACING	4-0-0



HEATED/UNHEATED WALL DETAIL
SCALE: 1" = 1'-0"



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WALL SECTION & DETAILS		
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	SHEET NO.	A-2



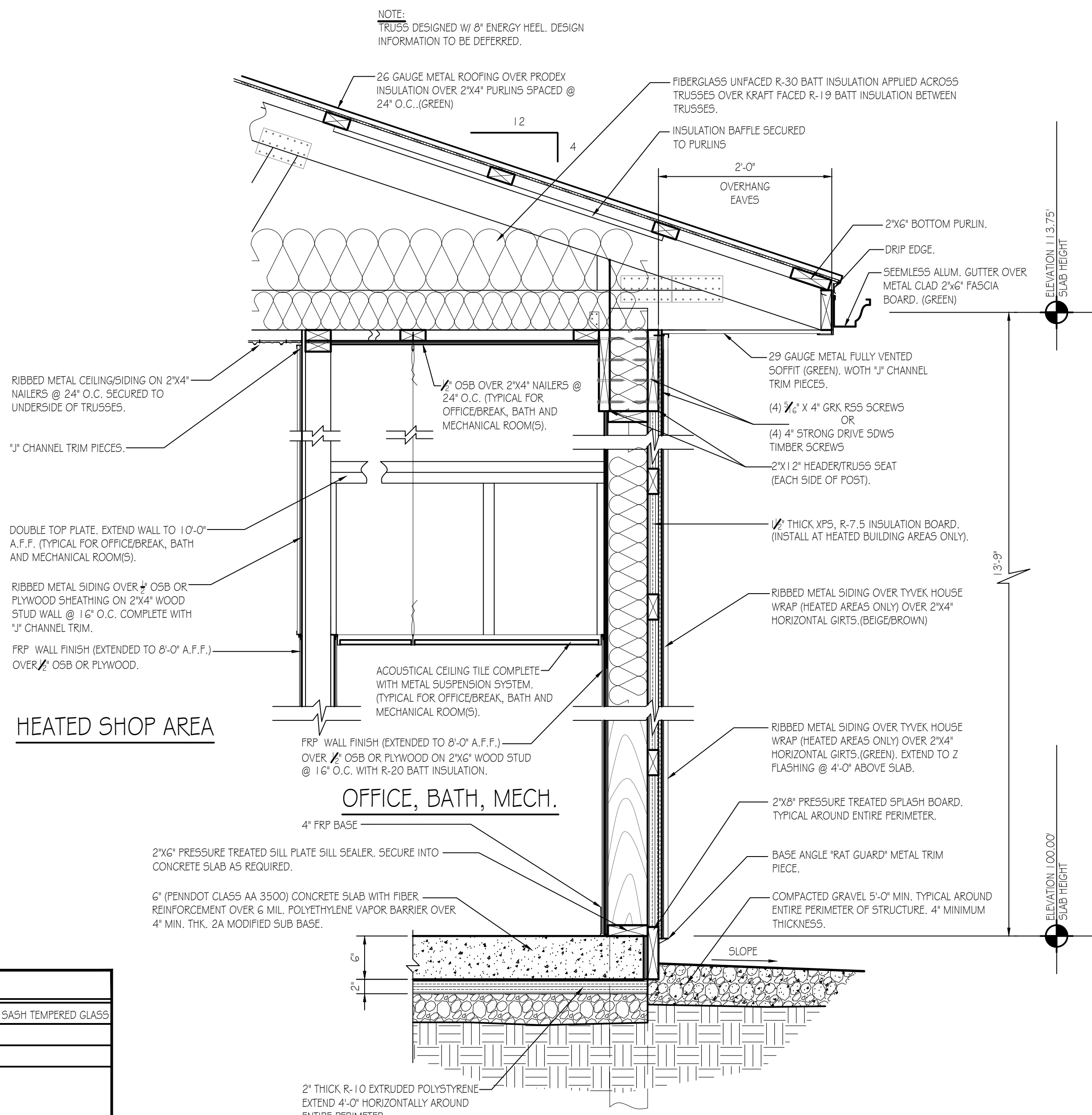
REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

MARK	TYPE	MANUFACTURER	ROUGH OPENING	COLOR	QTY.	REMARKS
A	1	VMIL	2'-6" x 3'-0"	WHITE	6	WINDOW UNIT IN BATH TO HAVE BOTTOM SASH TEMPERED GLASS
<p>WINDOW SCHEDULE NOTES:</p> <p>1) ALL WINDOWS TO BE COMPLETE WITH CLEAR LOW E GLASS W/ ARGON, INSECT SCREENS, GRILLES BETWEEN GLASS, INTEGRAL "J" CHANNEL TRIM AND TEMPERED GLASS AS REQUIRED BY CODE.</p> <p>2) EXTERIOR AND INTERIOR WINDOW COLOR TO BE WHITE.</p> <p>3) SEE SPECIFICATIONS FOR ADDITIONAL WINDOW INFORMATION.</p>						

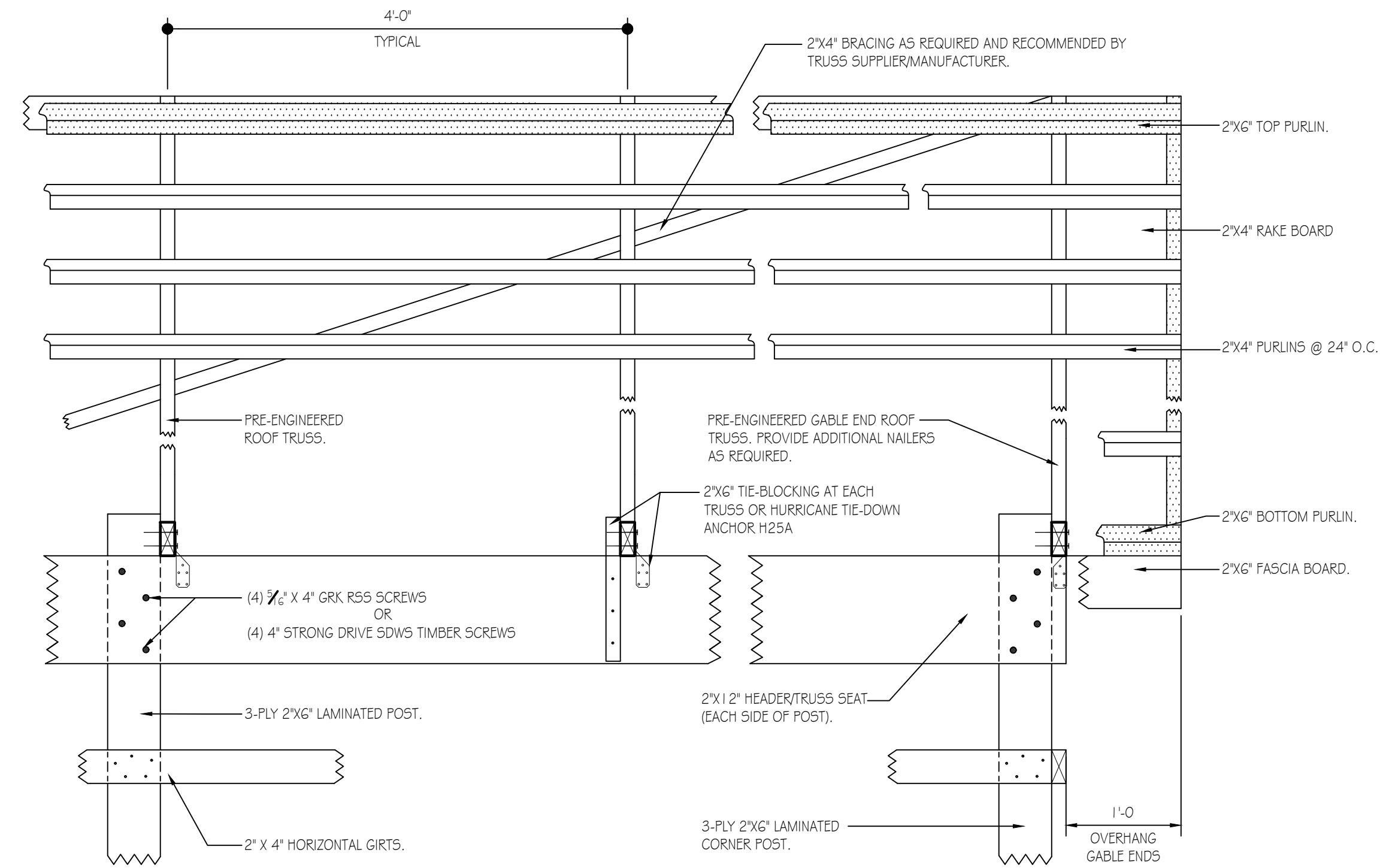
WINDOW SCHEDULE
N.T.S.

MARK	TYPE	WIDTH	HGT.	THK.	HAND	QTY.	REMARKS
A	3	3'-0"	7'-0"	1-3/4"	LHR	3	INSULATED CORE W/ GLASS, PANIC EXIT DEVICE, CLOSER
B	1	3'-0"	7'-0"	1-3/4"	RH	1	NON-INSULATED W/GLASS & PASSAGE SET
B ²	1	3'-0"	7'-0"	1-3/4"	RHR	1	NON-INSULATED W/GLASS & PASSAGE SET
C	2	3'-0"	7'-0"	1-3/4"	RH	1	NON-INSULATED W/ PRIVACY SET
D	1	3'-0"	7'-0"	1-3/4"	LHR	2	INSULATED CORE W/ GLASS, PANIC EXIT DEVICE, CLOSER
E	4	3'-0"	7'-0"	1-3/4"	LHR	1	NON-INSULATED W/GLASS, VENT & PASSAGE SET
F	O.H.	12'-0"	12'-0"	SEE SPECIFICATIONS		4	INSULATED SECTIONAL OVERHEAD DOOR
F ²	O.H.	14'-0"	12'-0"	SEE SPECIFICATIONS		1	INSULATED SECTIONAL OVERHEAD DOOR

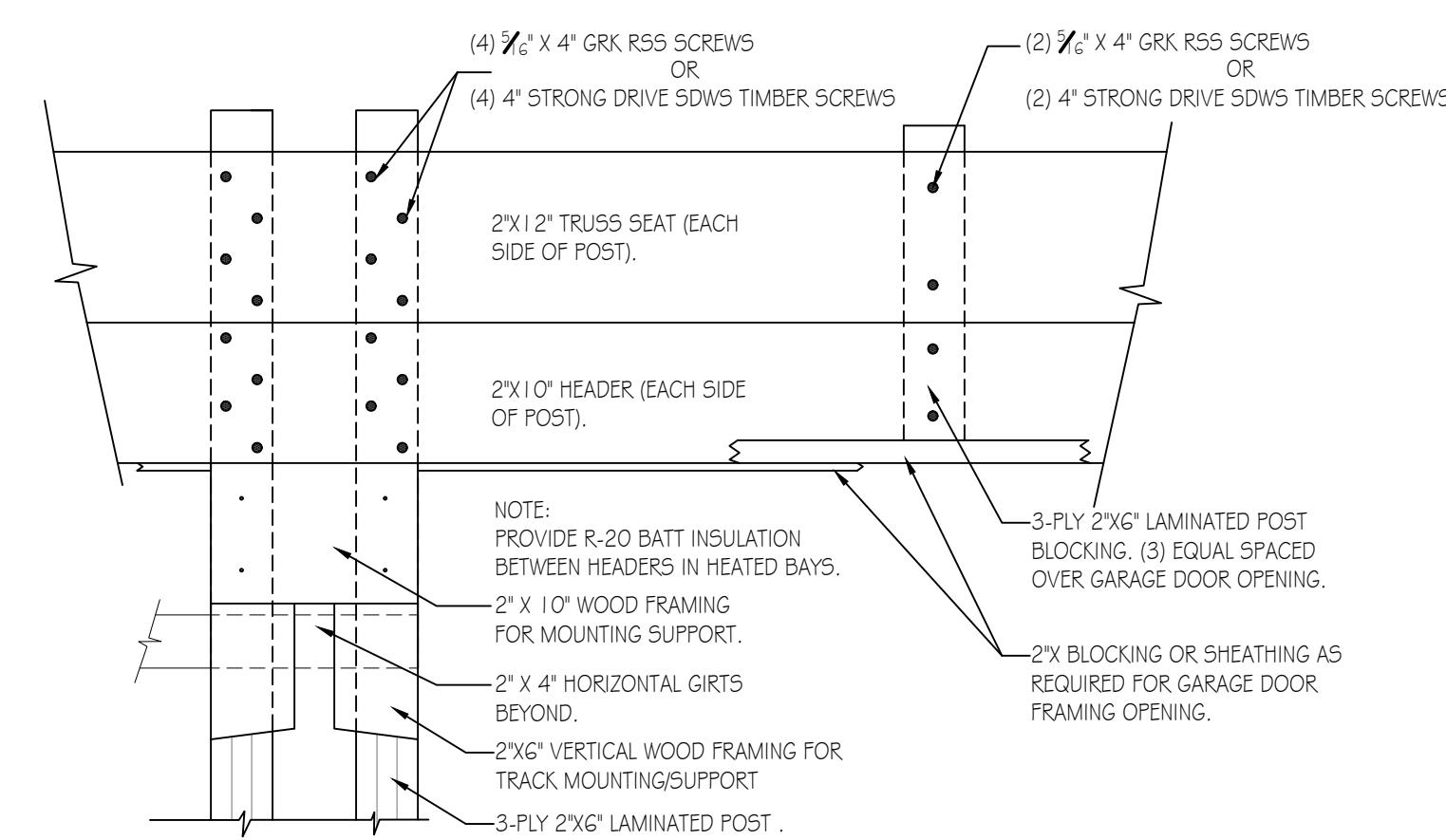
DOOR SCHEDULE
N.T.S.



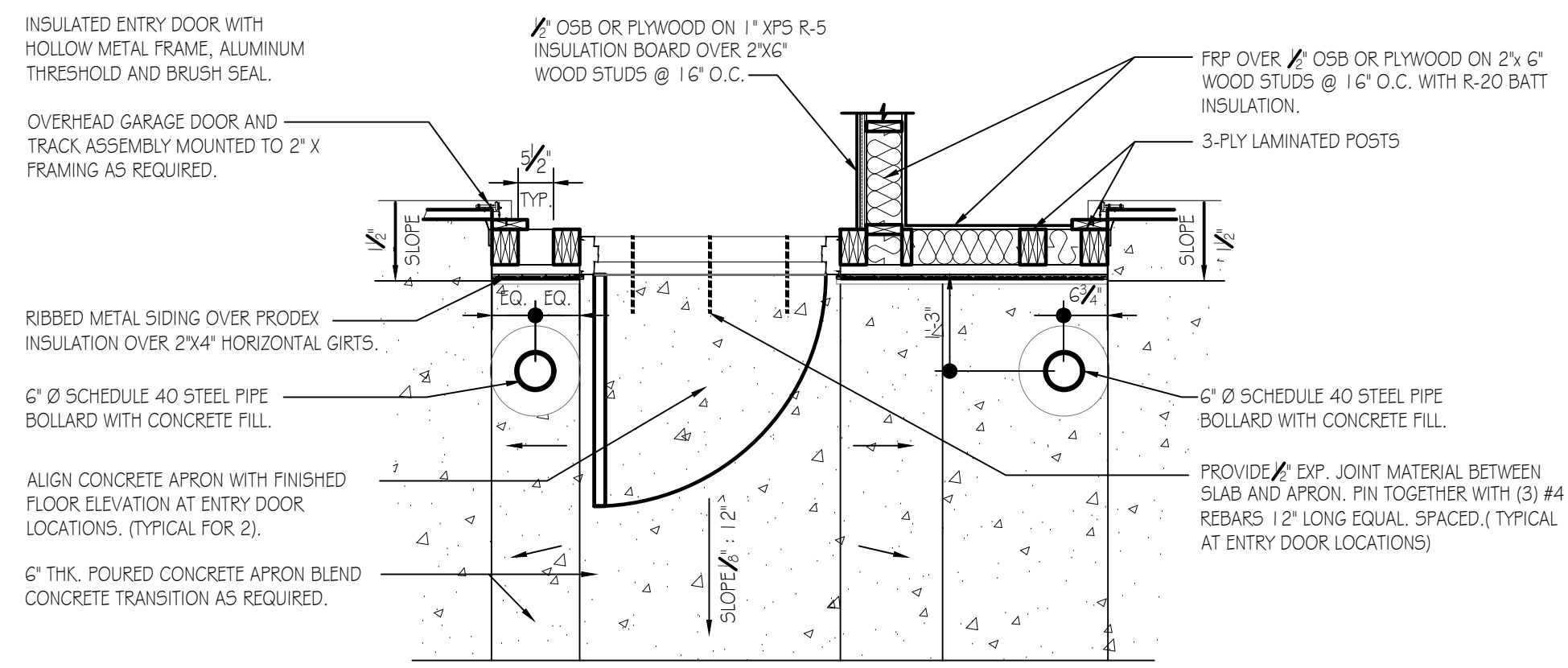
WALL SECTION DETAIL
SCALE: 1" = 1'-0"



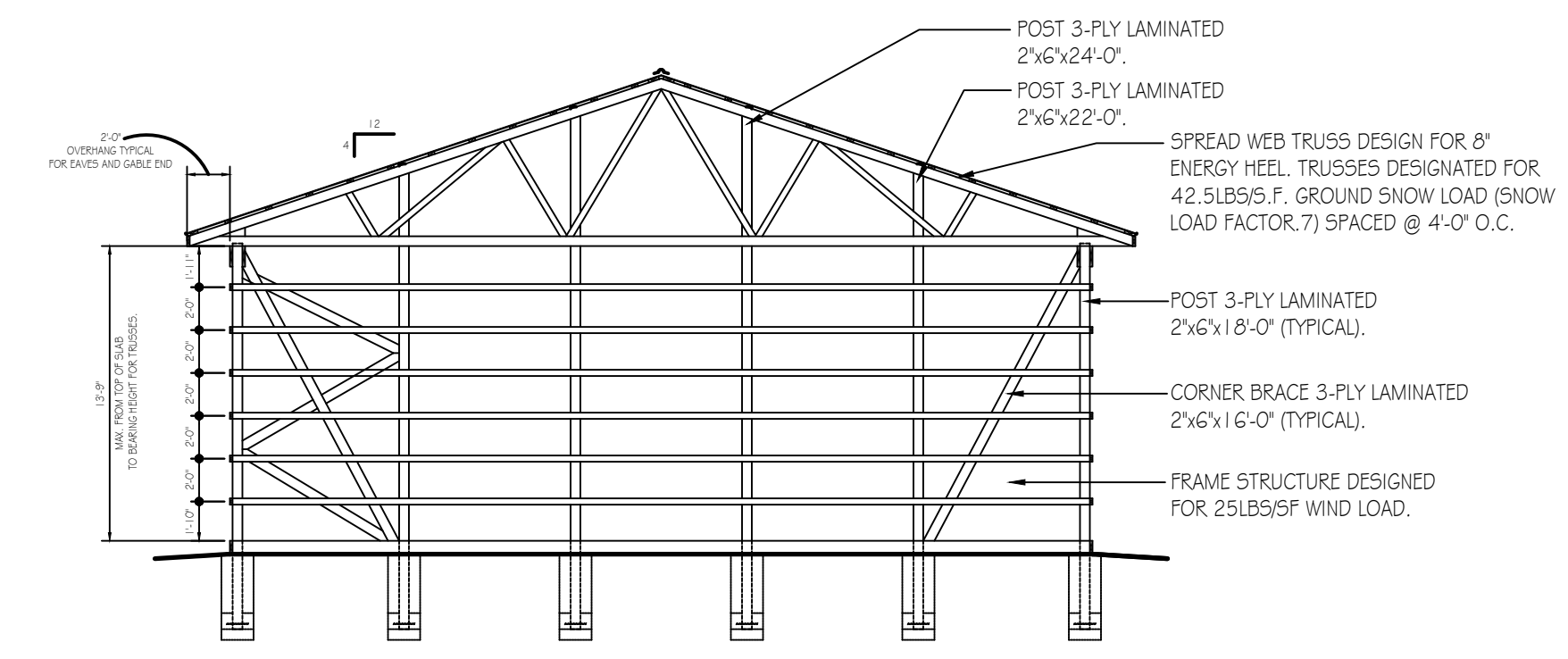
TYPICAL ROOF FRAMING/BRACING DETAIL
SCALE: 1" = 1'-0"



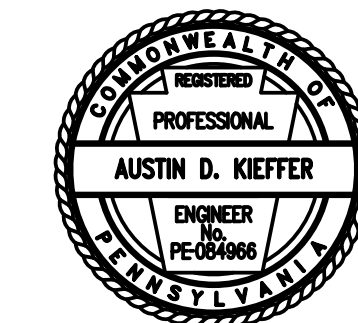
GARAGE DOOR FRAMING DETAIL
SCALE: 1" = 1'-0"



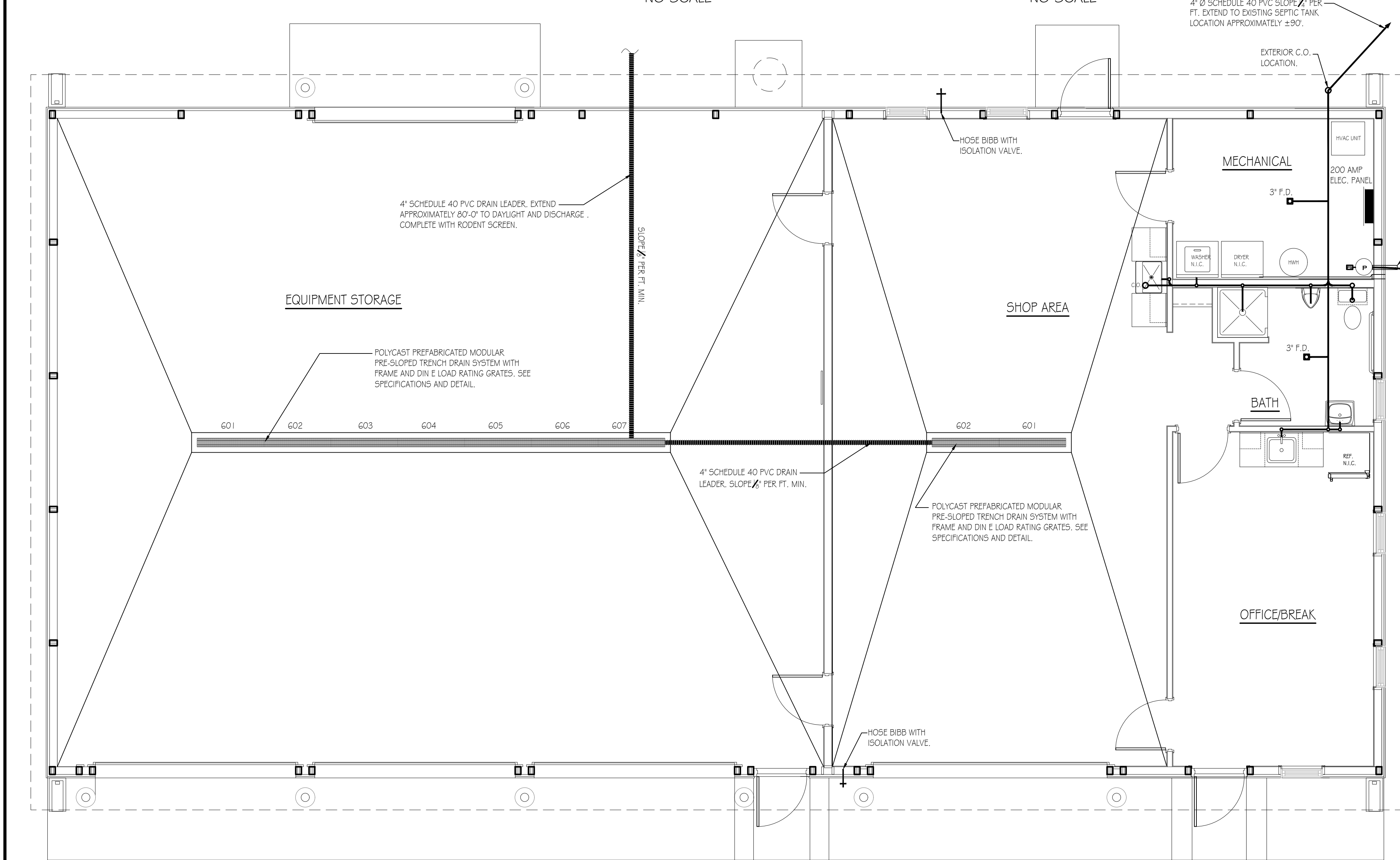
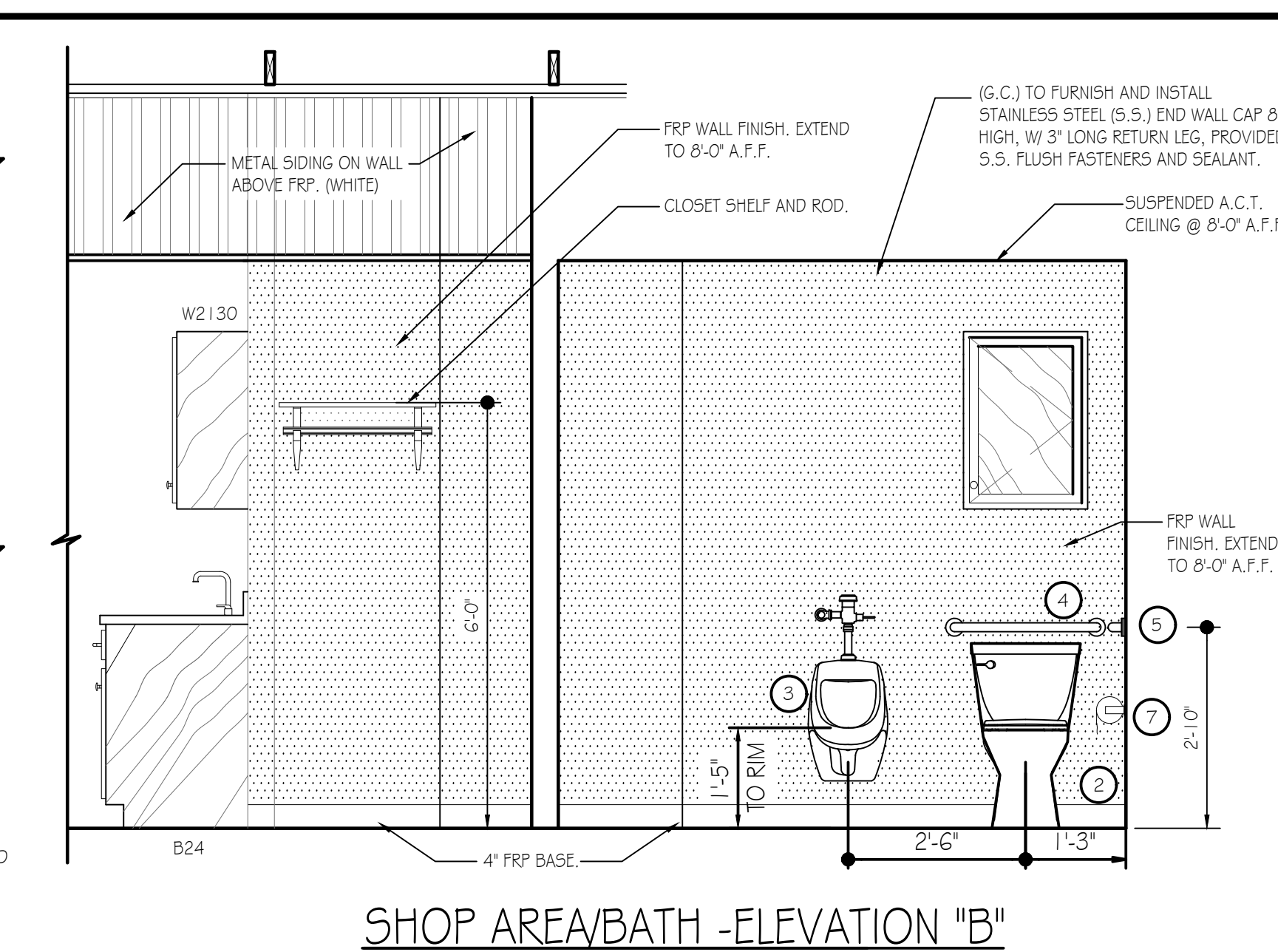
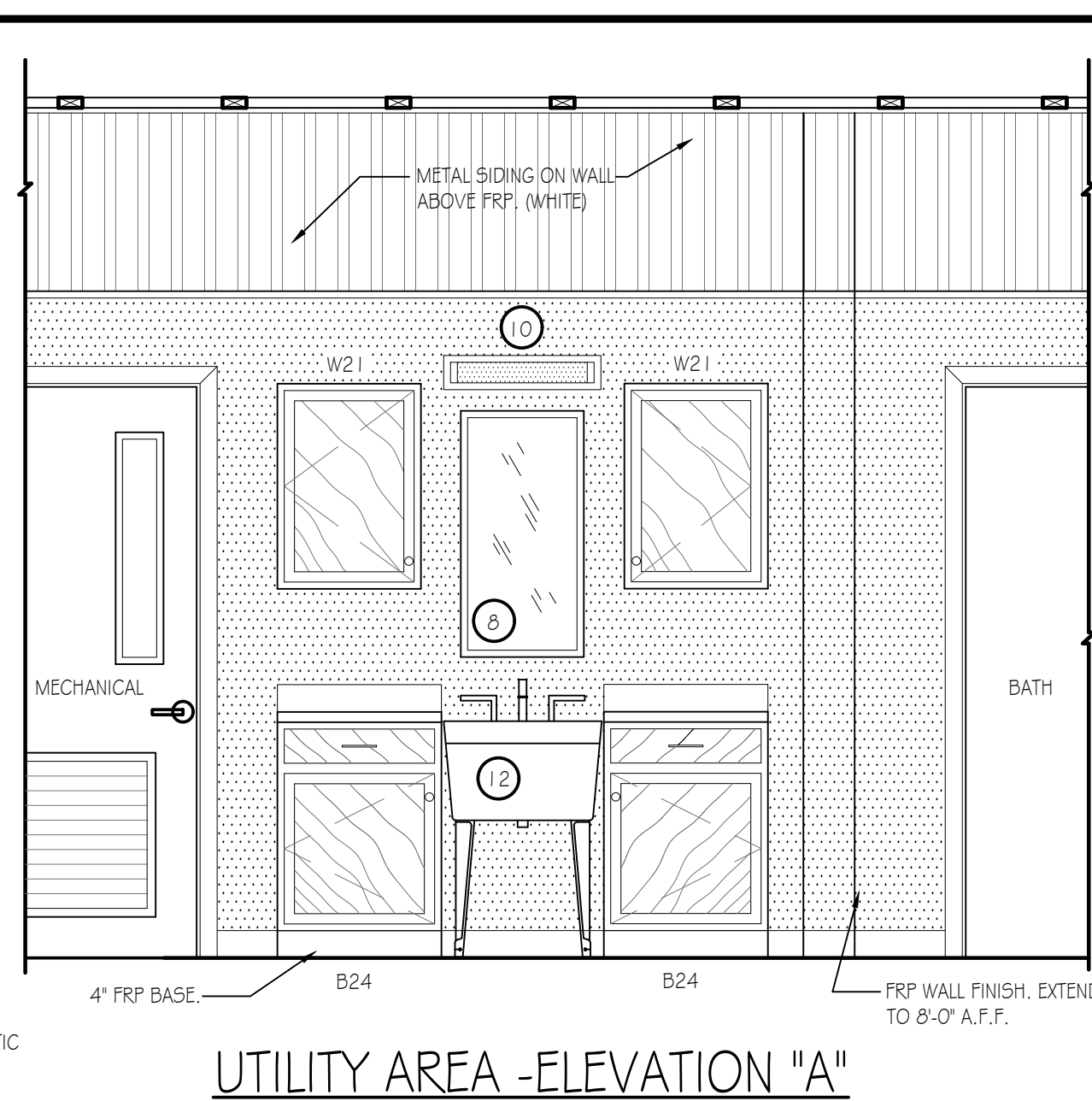
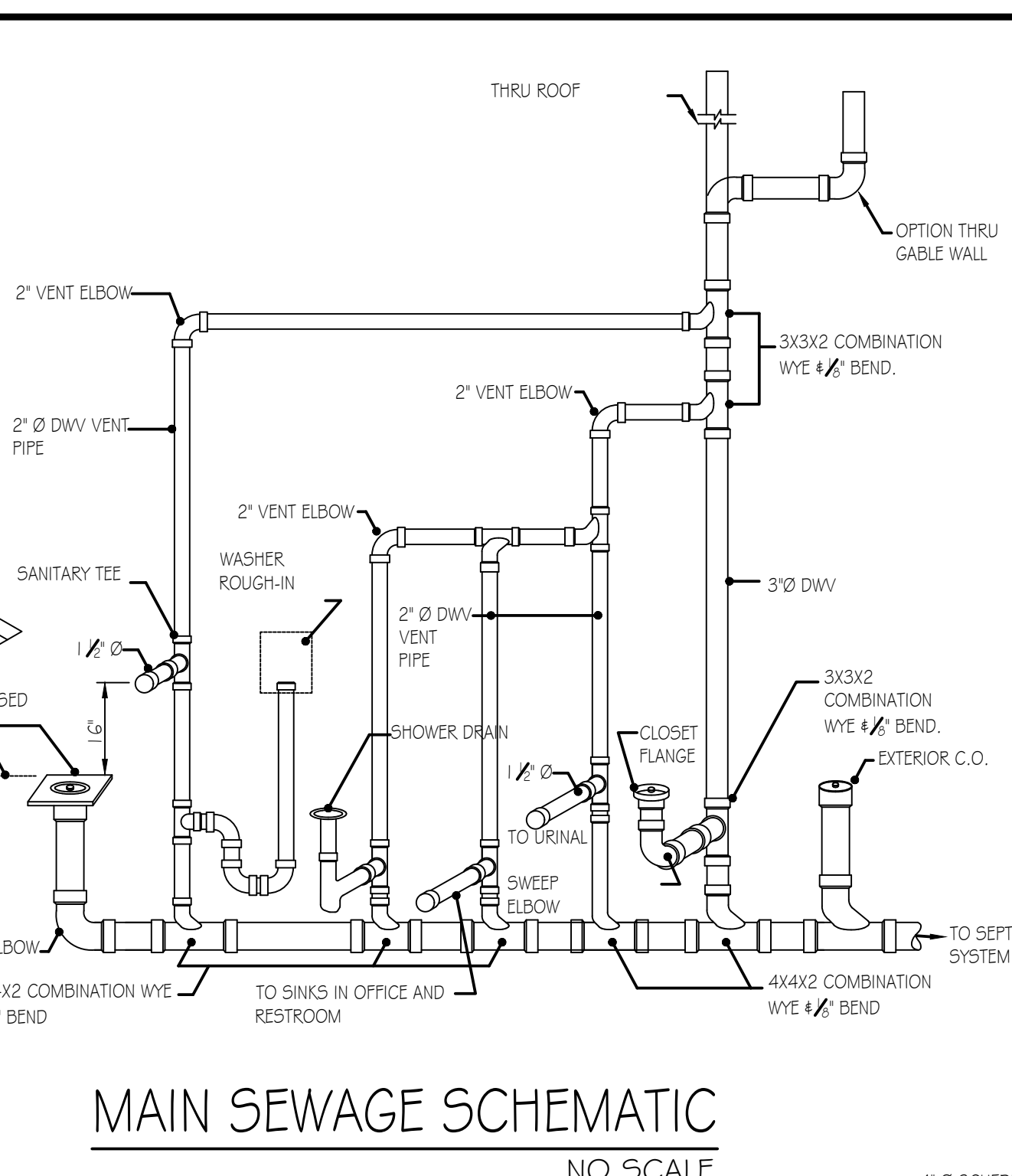
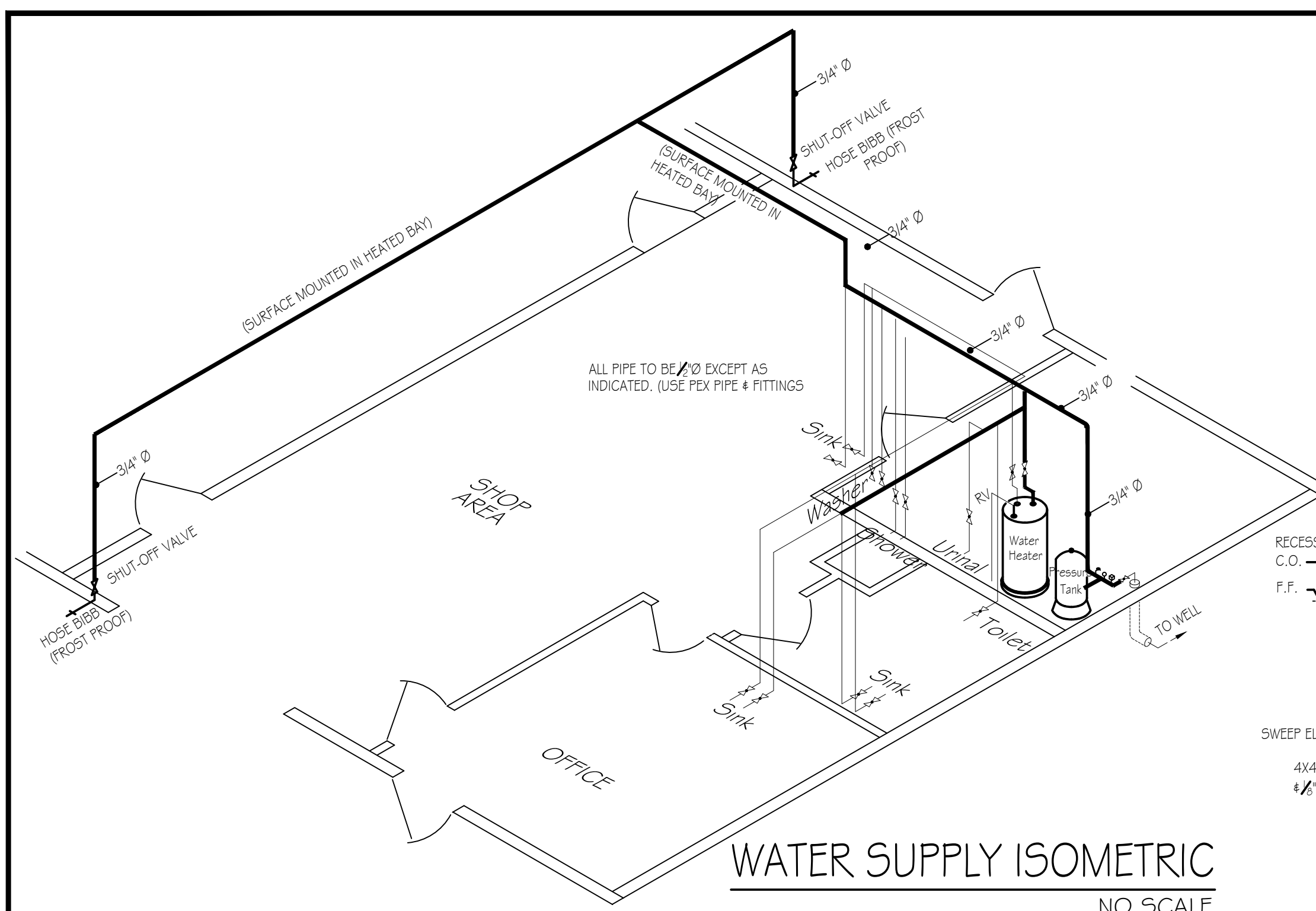
DETAIL AT ENTRY DOOR
SCALE: 1/2" = 1'-0"



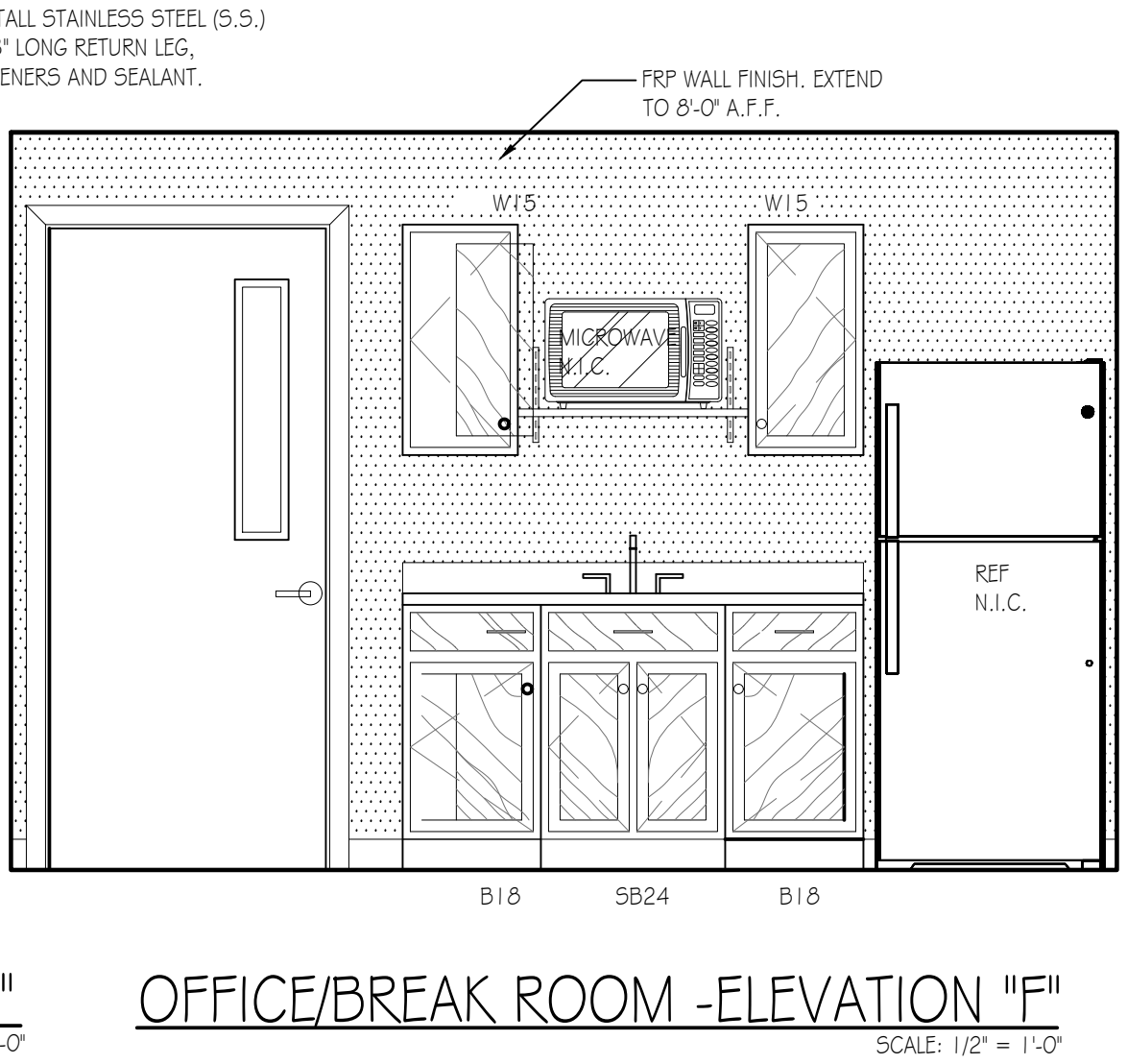
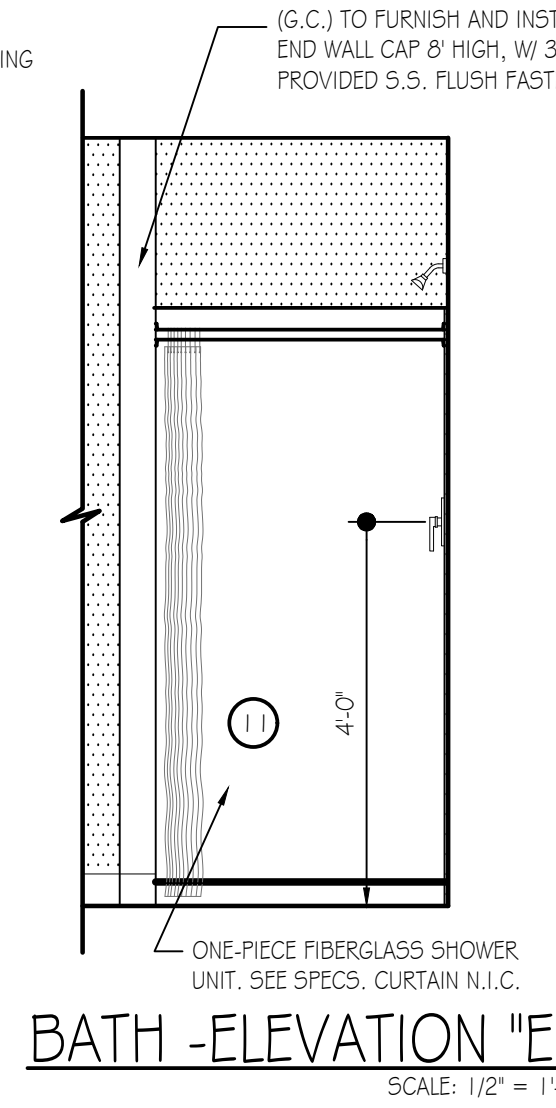
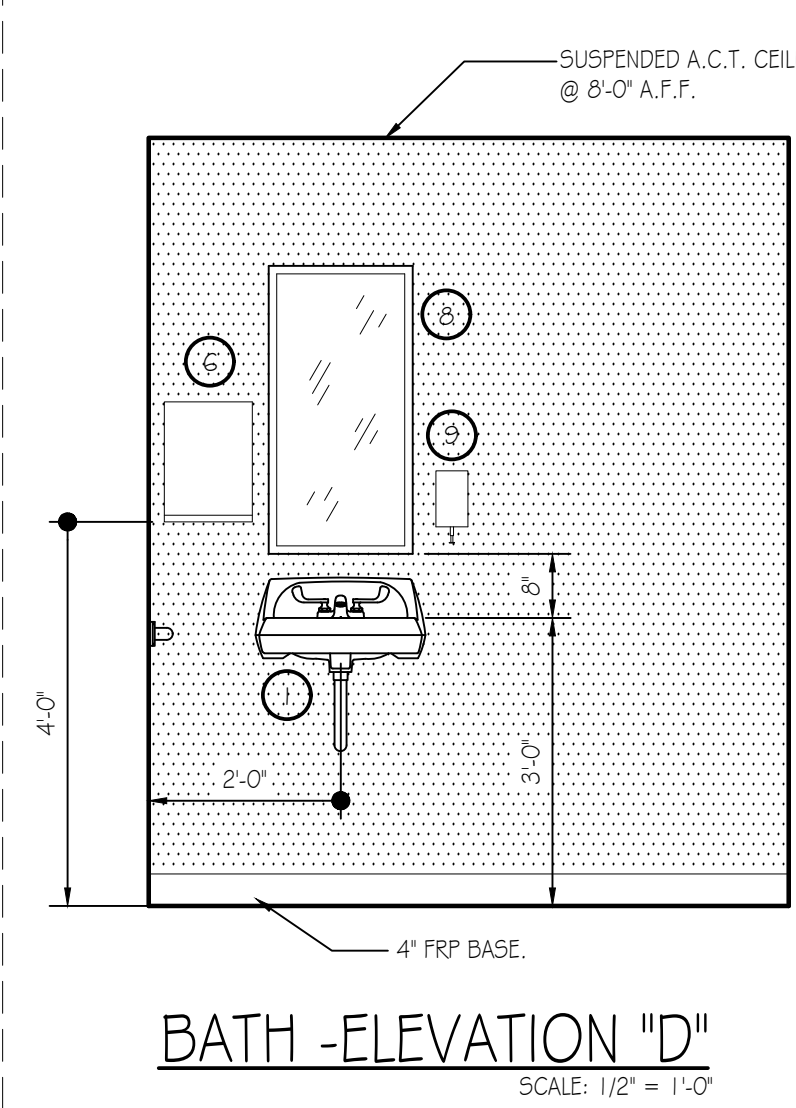
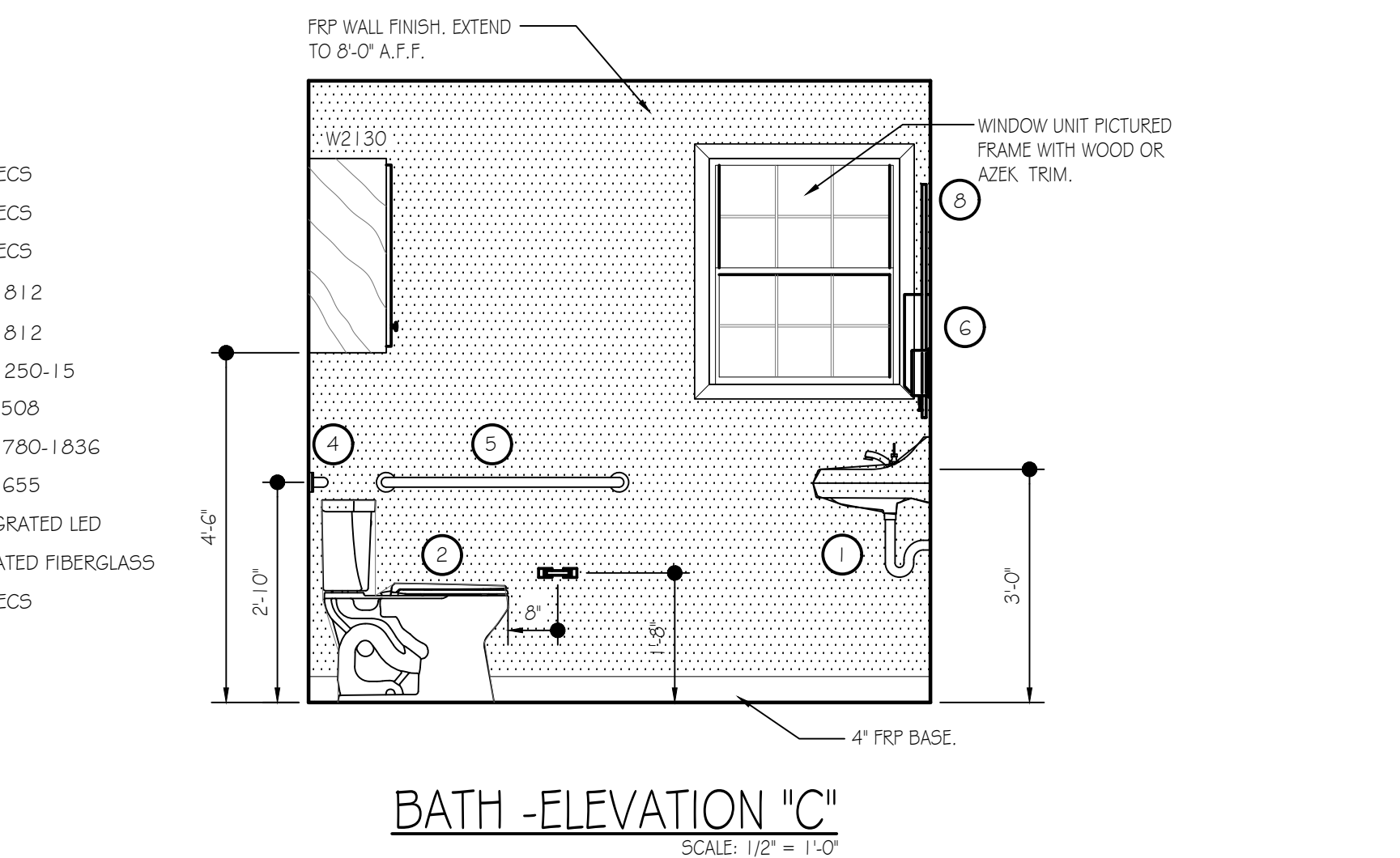
TYPICAL SECTION
SCALE: 1/8" = 1'-0"



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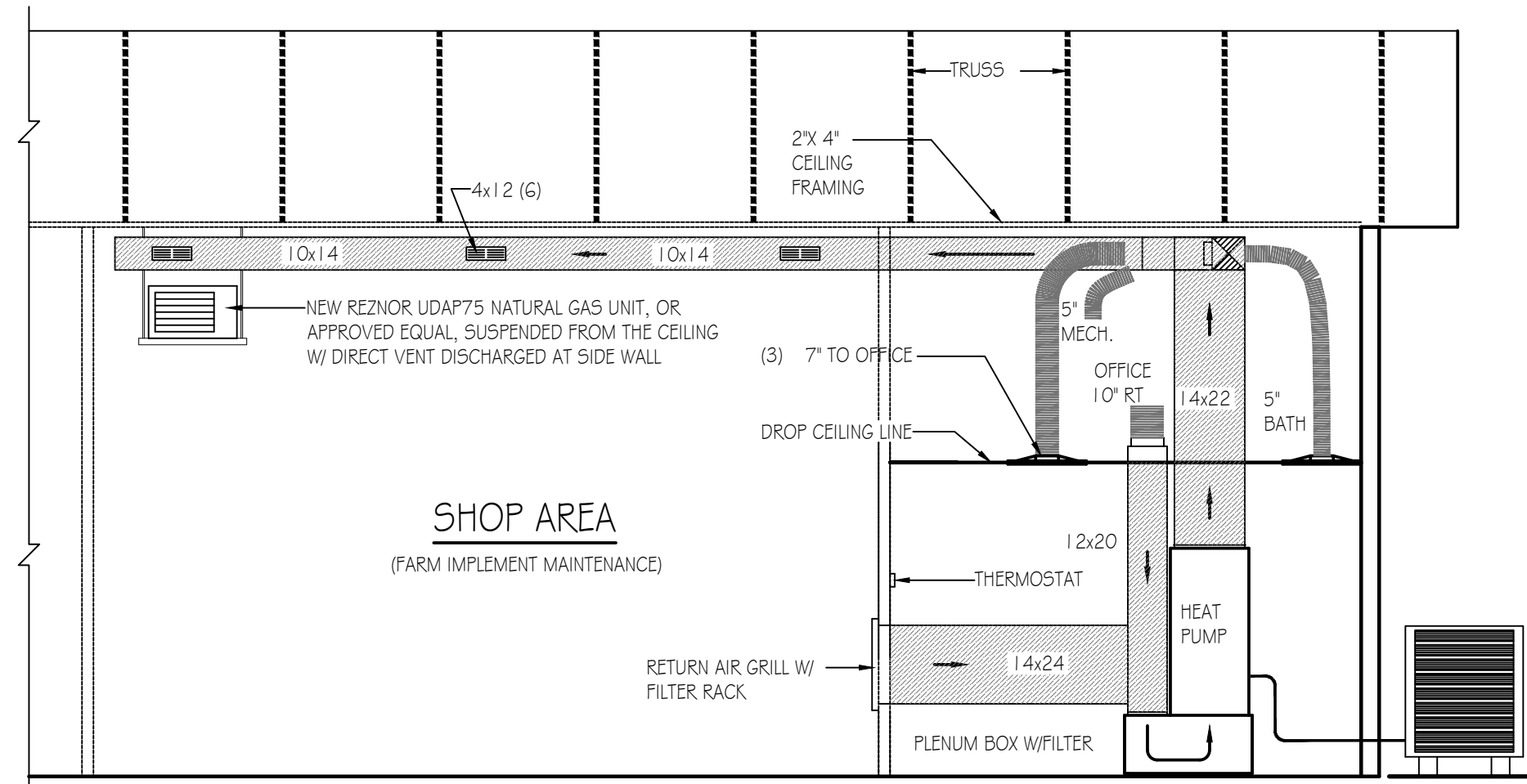
- BRADLEY CORP. (FOR REF. ONLY)**
FIXTURE/ACCESSORY LEGEND
- ① SINK (W/FAUCET) SEE SPECS
 - ② FLOOR MOUNTED WATER CLOSET SEE SPECS
 - ③ WALL HUNG URINAL SEE SPECS
 - ④ GRAB BAR (24" LONG) MODEL 812
 - ⑤ GRAB BAR (36" LONG) MODEL 812
 - ⑥ TOWEL DISPENSER MODEL 250-15
 - ⑦ TOILET TISSUE HOLDER MODEL 508
 - ⑧ 18" x 36" MIRROR MODEL 780-183G
 - ⑨ SOAP DISPENSER MODEL 655
 - ⑩ LIGHT FIXTURE 2" INTEGRATED LED
 - ⑪ ONE PIECE SHOWER UNIT GELCOATED FIBERGLASS
 - ⑫ UTILITY SINK (W/FAUCET) SEE SPECS



NEW CREW BUILDING - PLUMBING PLAN
SCALE: 1/4" = 1'-0"
TRUE NORTH PROJECT NORTH



PENNSYLVANIA GAME COMMISSION		
SGL # 165	SHAMOKIN TOWNSHIP	NORTHUMBERLAND COUNTY
NEW 40x80' CREW HEADQUARTERS BUILDING		
PLUMBING FLOOR PLAN, ELEVATIONS & DETAILS		
REVISIONS	PROJECT NO.	PGC-165-23-01
	DRAWN BY:	M. SPOTTS
	DATE:	10/16/2023
	SHEET NO.	P-1

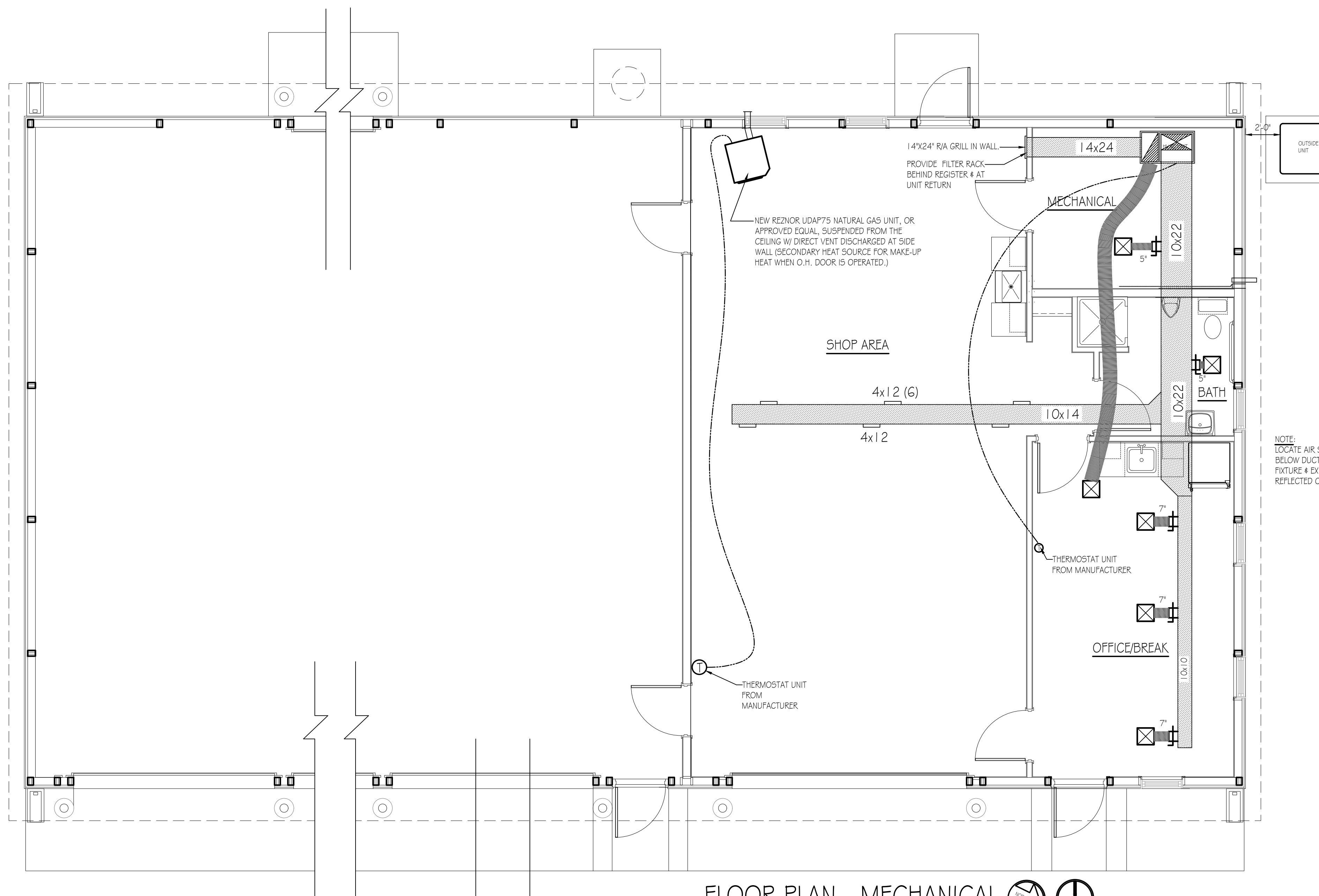


BUILDING SECTION - MECHANICAL
SCALE: 1/4" = 1'-0"

MECHANICAL CONSTRUCTION NOTES:

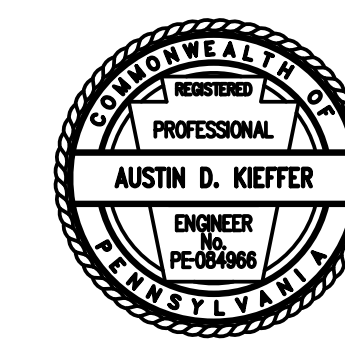
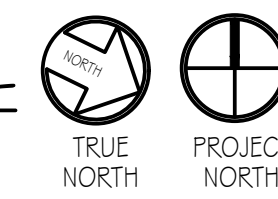
HVAC SYSTEM TO BE A BOSCH HEAT PUMP SYSTEM. LAYOUT OF DUCTS, DUCT SIZES AND DIFFUSERS ARE MEANT TO BE USED AS A GUIDELINE. ACTUAL RUNS, SIZES AND LOCATIONS TO BE DETERMINED BY MANUFACTURER'S MODEL. THE FOLLOWING STEPS SHOULD BE FOLLOWED IN THE DESIGN AND INSTALLATION OF THE HVAC SYSTEM TO ENSURE EFFICIENCY AND COMFORT.

1. DETERMINE ROOM-BY-ROOM AND AIR-FLOWS USING ACCA MANUAL J CALCULATION PROCEDURES. (OR SUBSTANTIALLY EQUIVALENT)
 2. SIZE DUCT SYSTEM ACCORDING TO ACCA MANUAL D CALCULATION PROCEDURES. (OR SUBSTANTIALLY EQUIVALENT)
 3. SIZE HVAC EQUIPMENT TO SENSIBLE LOAD USING ACCA MANUAL S CALCULATION PROCEDURES (OR SUBSTANTIALLY EQUIVALENT).
 4. INSTALL EQUIPMENT & DUCTS ACCORDING TO DESIGN SPECIFICATIONS USING INSTALLATION PROCEDURES FROM SMACNA / MANUFACTURERS' SPECS.
 5. INSTALL 50 STATIC AIR PRESSURE DROP ACROSS THE AIR HANDLER IS WITHIN MANUFACTURER AND DESIGN SPECIFICATIONS.
 6. PROVIDE BALANCED AIR FLOWS BETWEEN SUPPLY AND RETURN SYSTEMS TO MAINTAIN NEUTRAL PRESSURE.
 7. EQUIPMENT AND ASSOCIATED ITEMS MUST BE APPROVED BY PGC HARRISBURG ENGINEERING DIVISION BEFORE START OF INSTALLATION.
- HEAT PUMP TO BE A 5 TON BOSCH BOVA - 060-HD11 - M1.6M OUTSIDE CONDENSER UNIT W/ BGH9GM100CSB AIR HANDLER/FURNACE AND BMAC4600NTF CASE COIL. UNITS TO ACHIEVE A MINIMUM 17 SEER AND 9.5 HSPF (OR SUBSTANTIALLY EQUIVALENT). SEE SPECIFICATIONS.



NOTE:
LOCATE AIR SUPPLY REGISTER IN BATHROOM BELOW DUCT, COORDINATE WITH CEILING LIGHT FIXTURE & EXHAUST FAN LOCATIONS. SEE REFLECTED CEILING LAYOUT.

FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"



PENNSYLVANIA GAME COMMISSION		
SGL # 165	SHAMOKIN TOWNSHIP	NORTHUMBERLAND COUNTY
NEW 40x80' CREW HEADQUARTERS BUILDING		
MECHANICAL FLOOR PLAN AND DETAILS		
REVISIONS	PROJECT NO.	PGC-165-23-01
	DRAWN BY:	M. SPOTTIS
	DATE:	10/16/2023
	SHEET NO.	M-1

LOAD CENTER: 200A SERVICE PANEL SCHEDULE
VOLTAGE: 240/120V
SERVICE FEEDER SIZE: 2-#4/0 # 1-#2 AL

Circuit No.	Circuit Breakers		200 AMP Main Service Breaker	Wiring	
	Poles	Amps		No./Size	Conduit Size
1,3	2	50	220 VOLT OUTLET (WELDER)	3-#6	1-1/4"
2,4			SPARE		
5,7	2	50	220 VOLT OUTLET (WELDER)	3-#6	1-1/4"
6,8	2	30	220 VOLT OUTLET (AIR COMPRESSOR)	3-#10	3/4"
9,11	2	30	MECHANICAL ROOM DRYER RECEPTACLE	3-#10	3/4"
10,12	2	20	WELL PUMP	3-#10	3/4"
13,15	2	40	HVAC OUTSIDE UNIT	3-#8	1"
14,16	2	60	HVAC INSIDE AIR HANDER UNIT	Verify w/ M.C.	Verify
17	1	20	WATER CONDITIONING EQUIPMENT	3-#12	3/4"
18	1	20	WATER HEATER	3-#12	3/4"
19	1	20	GAS HEATER	3-#12	3/4"
20	1	20	SERVICE PANEL RECEPTACLE	3-#12	3/4"
21	1	20	SHOP RECEPTACLES W/ GFCI PROTECTION	3-#12	3/4"
22	1	20	SHOP RECEPTACLES W/ GFCI PROTECTION	3-#12	3/4"
23	1	20	WORK SHOP GENERAL LIGHTING	3-#12	3/4"
24			SPARE		
25	1	20	UTILITY GFI RECEPTACLES	3-#12	3/4"
26	1	20	OFFICE, RESTROOM, & MECH. LIGHTING	3-#12	3/4"
27	1	20	EQUIPMENT STORAGE LIGHTING	3-#12	3/4"
28	1	20	EQUIPMENT STORAGE RECEPTACLES W/ GFCI PROTECTION	3-#12	3/4"
29	1	20	EQUIPMENT STORAGE RECEPTACLES W/ GFCI PROTECTION	3-#12	3/4"
30	1	20	REFRIGERATOR	3-#12	3/4"
31	1	20	OFFICE RECEPTACLES	3-#12	3/4"
32	1	20	BREAK, RESTROOM GFI RECEPTACLES	3-#12	3/4"
33	1	20	MICROWAVE	3-#12	3/4"
34	1	20	CLOTHES WASHER RECEPTACLE	3-#12	3/4"
35	1	20	GARAGE DOOR OPENER RECEPTACLES	3-#12	3/4"
36,38	2	30	FUEL TANK PUMP	3-#10	3/4"
37,39-42			SPARE SPACES		

LIGHTING FIXTURE SCHEDULE

MARK	QTY	FIXTURE TYPE	MODEL
A	3	2' X 4' LED PANEL	SIMKAR LDP245040U1
B	11	15.25' X 22' 4 LAMP LED HIGH BAY	LITHONIA IBIH 15000LM S0080 MD Q2 I/O 40K_80 CRI
C	1	2 INTEGRATED LED WALL MOUNT VANITY LIGHT (18 WATT)	LITHONIA FMVTL3000K
D	5	SECURITY PHOTOCELL, WALL MOUNT/OUTSIDE UNIT (18 WATT LED)	LITHONIA TWS LED P1 50K MVOLT PE DDB M4
E	3	EXIT 4 EMERGENCY COMBO LIGHT W/BATTERIES & REMOTE HEAD	LITHONIA ECRLEDHO MG WIELA LED WP M12
F	1	2' X 2' LED PANEL	SIMKAR LDP224040U1
G	1	110 CFM, CEILING MOUNT EXHAUST FAN	BROAN AER 110K

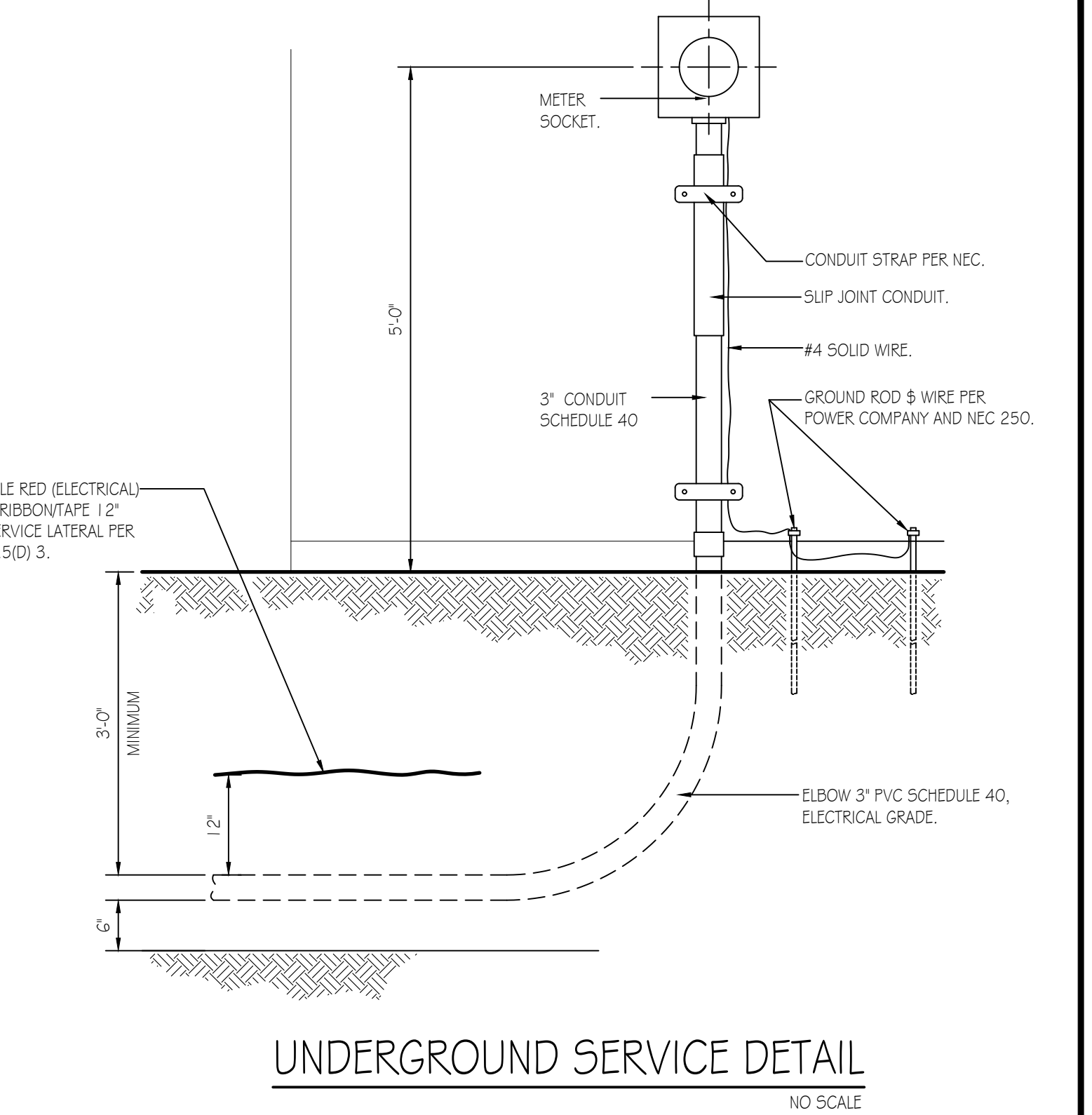
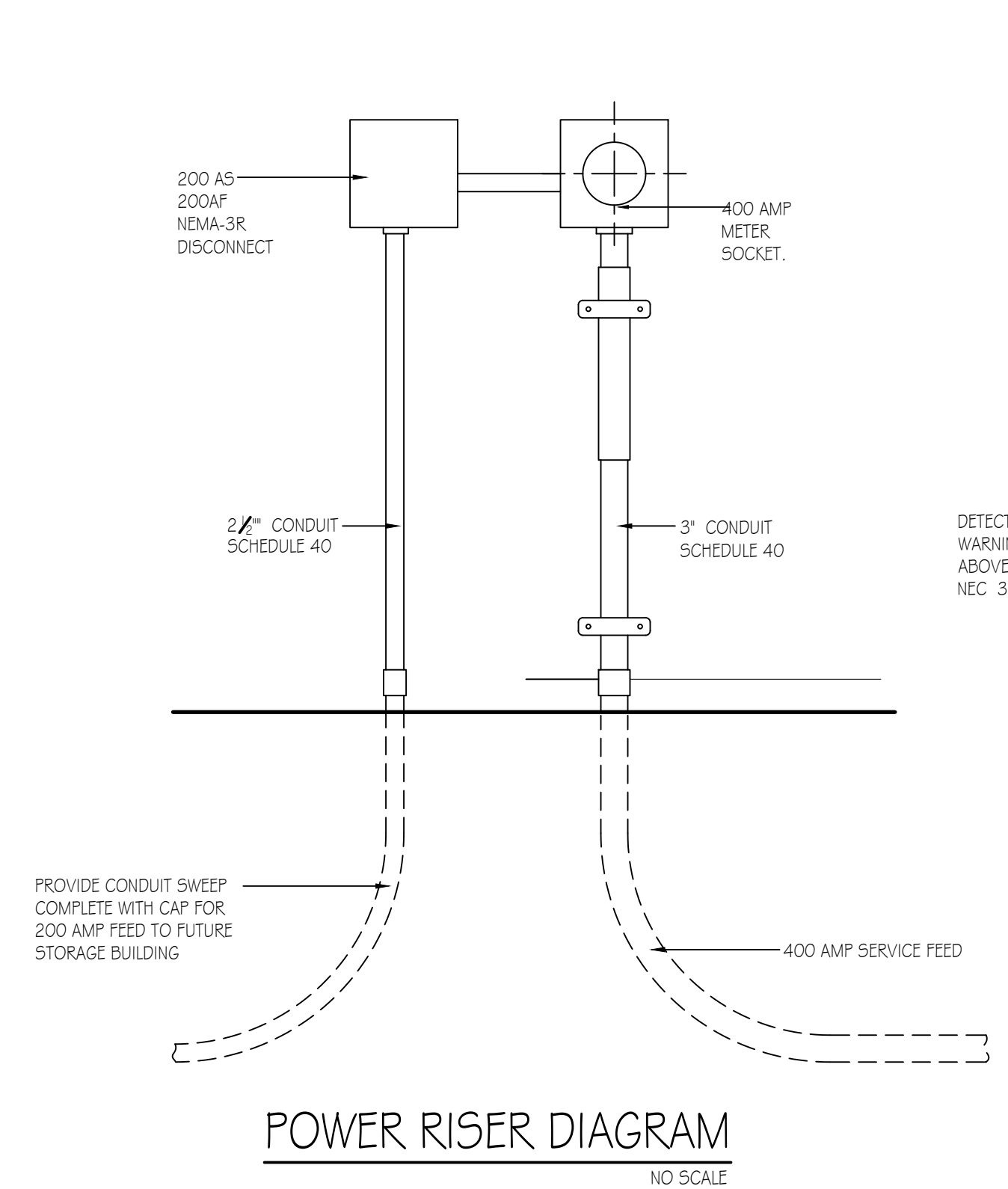
ELECTRICAL WIRING SYMBOLS

- GFI-WATER RESISTANT-RECEPTACLE
- GFI RECEPTACLE
- DUPLEX OUTLET, SPLIT CIRCUIT
- DUPLEX OUTLET
- 50 AMP, 220 VOLT OUTLET, WELDER (VERIFY TYPE & LOCATION WITH PEG)
- 30 AMP, 220 VOLT OUTLET
- 30 AMP, 220 VOLT OUTLET (DRYER)
- HOME RUN/CIRCUIT #
- TELECOMMUNICATIONS OUTLET
- JUNCTION BOX
- PHOTO CELL
- EXIT LIGHTING W/BATTERIES
- SWITCH
- 3 SWITCH, 3 WAY
- 4 SWITCH, 4 WAY
- OCCUPANCY SENSOR
- PRESSURE SWITCH
- WATER PUMP

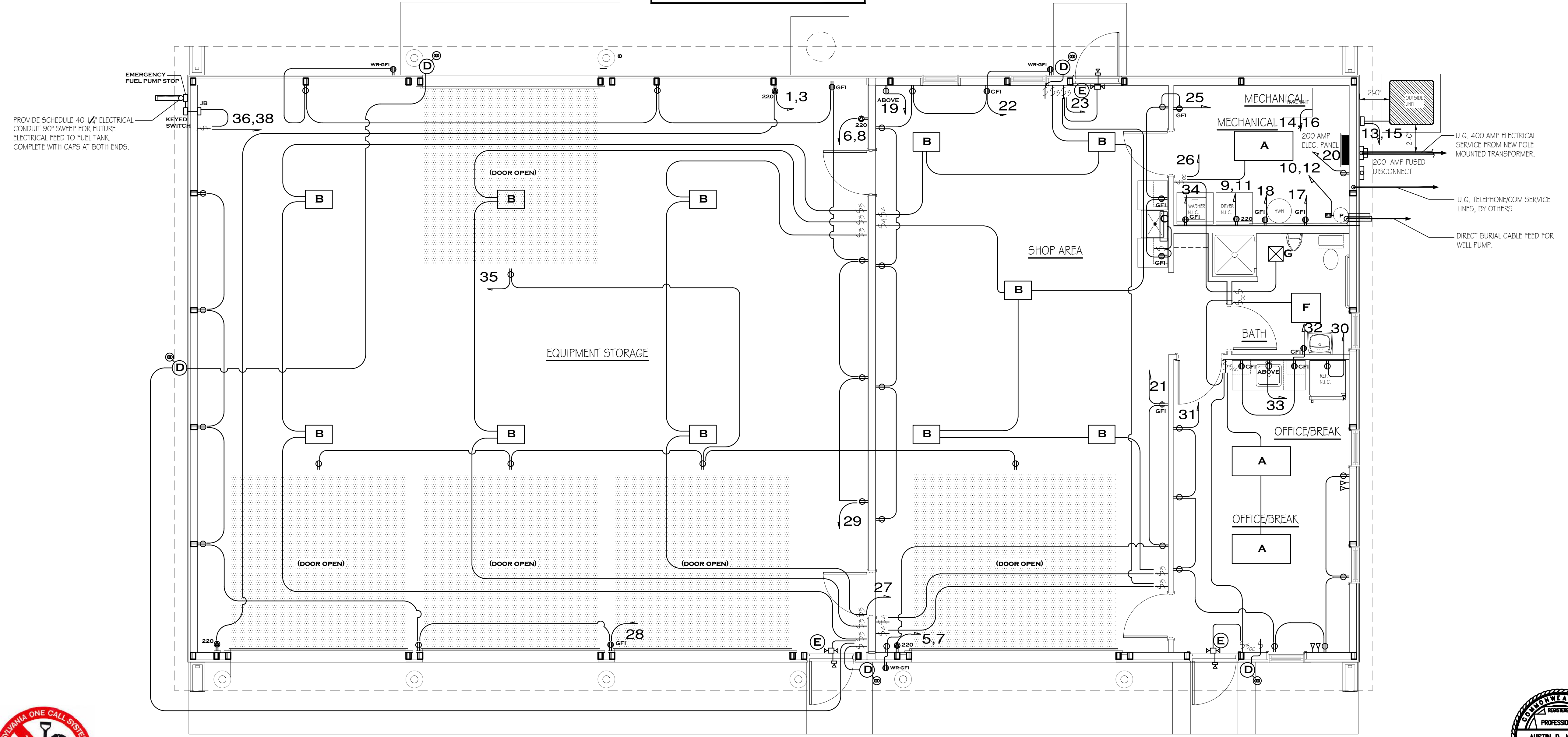
- GENERAL ELECTRICAL NOTES:
- FURNISH AND INSTALL SOLID COPPER CONDUCTORS AS SPECIFIED; NO ALUMINUM AND NO STRANDED. MC CABLE IS APPROVED FOR ALL HOME RUN CIRCUITS IF NEATLY INSTALLED.
 - ALL CONDUCTORS FOR 120V CIRCUITS OVER 100' IN LENGTH SHALL BE MINIMUM #10 AWG. ALL CONDUCTORS FOR 120V CIRCUITS OVER 150' IN LENGTH SHALL BE MINIMUM #8 AWG. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF FINAL CIRCUIT LENGTHS AND CORRESPONDING WIRE SIZE TO ENSURE VOLTAGE DROP IS MAINTAINED WITHIN NEC LIMITS.
 - ALL WORK SHALL BE PERFORMED AS REQUIRED BY APPLICABLE SECTION OF THE NATIONAL ELECTRICAL CODE (NEC), LATEST EDITION, AND ALL GOVERNING UCC BUILDING CODES AND REGULATIONS.
 - PROVIDE GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70 AND COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS ALL FEEDERS AND BRANCH CIRCUITS, LIGHTING CIRCUITS, RECEPTACLE CIRCUITS SINGLE PHASE MOTOR AND APPLIANCE BRANCH CIRCUITS, ARMORED AND METAL-CLAD CABLE RUNS AND AS REQUIRED BY NFPA 70.
 - PROVIDE ALL HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS, INCLUDING STEEL SLOTTED SUPPORT SYSTEMS, CONDUIT AND CABLE SUPPORT DEVICES, SUPPORTS FOR CONDUCTORS IN VERTICAL CONDUIT. HANGERS AND SUPPORTS SHALL HAVE A FLAME RATING OF CLASS 1 AND BE SELF-EXTINGUISHING ACCORDING TO ASTM D 635.
 - PROVIDE CAT6 WIRE LABELED AND RAN FROM EACH DATA BOX TO MECHANICAL ROOM. PROVIDE 10' ADDITIONAL COILED LENGTH IN MECHANICAL ROOM FOR EACH RUN.
 - MOUNT COMBINATION EXIT/EMERGENCY LIGHTING UNITS TO THE LIGHTING BRANCH CIRCUIT IN THE ROOM IT IS SERVING ON THE LINE SIDE OF ANY SWITCHES.

RECEPTACLE & SWITCH MOUNTING HEIGHTS

MICROWAVE	66"
WASHER	36"
DRYER	36"
OFFICE RECEPTACLES AND TELEPHONE	18"
ALL SWITCHES AND OTHER RECEPTACLES	48"



PANEL SCHEDULE NOTES:
* Match receptacle to welder



Underground - General Specifications
Trenching & Backfilling By Customer/Non-Joint
Trench Customer Reference Specification
6-14-121

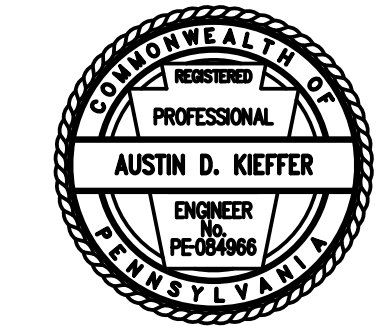
0000-000-ST-6014 Custom ID:
DCS 6-14 Revision: 05
Effective Date: 12/05/2016

6-14-121 - Customer Reference Specification, Trenching & Backfilling By Customer/Non-Joint Trench

NOT TO SCALE

Notes:

- Customer must coordinate with communication companies as to backfill and separation required for their cables.
- All trenches must be built to meet approved protection for the job being performed per OSHA 29CFR1926.652.
- Depth/Separation Requirements for Utility Trenching
 - a. Water, sewer, etc. - 12 inches of earth.
 - b. Steam, heat mains - 72 inches of earth.
 - c. Propane - 36 inches of earth; never above electric.
 - d. Gas - 6 inches minimum, 12 inches preferred; not below electric without prior approval from both PPL and the appropriate gas utility.
 - e. EU and the appropriate gas utility.
 - f. E. Communication - 6 inches minimum, 12 inches preferred.



PENNSYLVANIA GAME COMMISSION

SGL # 165 SHAMOKIN TOWNSHIP NORTHUMBERLAND COUNTY
NEW 40x80' CREW HEADQUARTERS BUILDING
ELECTRICAL FLOOR PLAN, SCHEDULES & DETAILS

REVISIONS	PROJECT NO.	PGC-165-23-01
	DRAWN BY:	M. SPOTTS
	DATE:	10/16/2023
	SHEET NO.	E-1