

LEGEND	
SYMBOL	DESCRIPTION
	PIPING UP
	PIPING DOWN
	PIPING RISE OR DROP
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
	REDUCER
	CLEANOUT
	FLOOR CLEANOUT
	CAPPED PIPE
	METER
	FLOOR DRAIN
	AQUASTAT
	PUMP
	STRAINER
	UNION
	THERMOSTATIC MIXING VALVE
	BALANCING VALVE (BLV)
	GLOBE VALVE (GLV)
	CHECK VALVE (CV)
	GAS COCK, GAS STOP
	BALL VALVE (BV)
	BUTTERFLY VALVE (BFV)
	SOLENOID VALVE
	PRESSURE-REDUCING VALVE (PRV)
	GATE VALVE (GV)
	PRESSURE-RELIEF VALVE (RV)
	BACKFLOW PREVENTER
	FROST FREE HOSE BIBB
	HOSE BIBB
	RECESSED-BOX HOSE BIBB OR WALL HYDRANT
	EXPANSION JOINT
	WATER HAMMER ARRESTER
	VALVE IN RISER
	WALL CLEANOUT (WCO)
	PITCH DOWN OR UP IN DIRECTION OF ARROW
	FLOW IN DIRECTION OF ARROW
	COLD WATER (CW)
	TEMPERED WATER (TW)
	HOT WATER (HW)
	TEMPERED WATER RETURN (TWR)
	HOT WATER RETURN (HWR)
	WASTE PIPING (W,S,OW)
	BELOW SLAB WASTE PIPING
	VENT PIPING (V)
	GAS PIPING (G)
	TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION

ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CLG	CEILING
CO	CLEAN OUT
CODP	CLEAN OUT DECK PLATE
COWP	CLEAN OUT WALL PLATE
CW	COLD WATER
(D)	DEMOLISH
DCV	DOUBLE CHECK VALVE DEVICE
DEG. F	* FAHRENHEIT
DIA	DIAMETER
DN	DOWN
(E)	EXISTING
EA	EACH
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
G	GAS
'G'C	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
'H'	HVAC CONTRACTOR
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
IN.	INCHES
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
LBS	POUNDS
M	METER
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
OD	OUTER DIAMETER
(P)	PROPOSED
'P'	PLUMBING CONTRACTOR
PD	PRESSURE DROP
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAN / S	SANITARY
ST	STORM DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
TW	TEMPERED WATER (110°F)
TWR	TEMPERED WATER RETURN
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE

GENERAL PLUMBING NOTES	
1.	PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2.	THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE SUBMISSION OF BIDS.
3.	PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 PLUMBING CODE OF NEW YORK STATE (PCNYS), MECHANICAL (MCNYS), ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS) CODE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
4.	APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND PAY ALL COSTS FOR THE SAME.
5.	DO NOT SCALE DRAWINGS. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.
6.	COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURERS REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTORS FABRICATED ITEMS TO ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.
7.	FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
8.	PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
9.	INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
10.	LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
11.	COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
12.	COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
13.	COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED.
14.	MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
15.	PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
16.	INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
17.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
18.	PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER ARRESTERS, ETC. READILY ACCESSIBLE.
19.	ARRANGE FOR, COORDINATE, AND MAKE CONNECTION TO ALL SERVICES PROVIDED BY OTHERS. CONFORM TO ALL REQUIREMENTS APPLICABLE TO CONNECTIONS IMPOSED BY UTILITY COMPANIES AND AUTHORITIES HAVING JURISDICTION.
20.	INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR REMOVAL.
21.	PROVIDE A CLEANOUT AT THE BASE OF WASTE AND VENT STACKS WITH FINISHED WALL PLATE IN FINISHED WALLS.
22.	FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE PLUMBING CODE OF NEW YORK STATE ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF 80 P.S.I.G.
23.	SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.
24.	FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE PLUMBING CODE OF NEW YORK STATE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL.
25.	PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.
26.	ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE TESTED FOR LOW LEAD.
27.	ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER 2020 BCNYS AND COMMERCIAL PROVISIONS .
28.	ALL PIPING IN PLENUM SPACES SHALL BE CAST IRON FOR SANITARY, STORM, VENT SYSTEMS, AND COPPER PIPING FOR DOMESTIC SYSTEMS, AND STEEL PIPING FOR GAS SYSTEMS. NO PLASTIC PIPING ALLOWED.
29.	HOT WATER TEMPERATURE FOR ALL PUBLIC HAND WASHING FIXTURES SHALL BE TEMPERED TO A MAXIMUM TEMPERATURE OF 110 DEGREES F.
30.	ALL FIXTURES SHALL MEET THE WATER CONSERVATION REQUIREMENTS LISTED IN THE TABLE 604.4 OF THE 2020 PLUMBING CODE OF NEW YORK STATE.
31.	ALL FIXTURES THAT HAS THE ABILITY TO HAVE A HOSE CONNECTED TO IT, OR DIRECT CONNECTED FIXTURES, SHALL HAVE A BACKFLOW PREVENTION DEVICE ON THE FAUCET, VACUUM BREAKER (ASSE 1052 AND ASME A112.21.3).
32.	ALL SANITARY FITTINGS SHALL BE 'WYE' TYPE AND SHALL FOLLOW THE DIRECTION OF FLOW.
33.	IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN DESIGN PLANS, RISER DIAGRAMS, AND/OR SPECIFICATIONS CONCERNING PIPE SIZES, FIXTURES, AND/OR EQUIPMENT, THE MOST STRINGENT REQUIREMENTS SHALL BE APPLIED TO THE PROJECT.
34.	FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, CONDUIT, ETC.
35.	MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-3" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
36.	CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.
37.	INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL FOOTING PENETRATIONS.
38.	COVER ALL COPPER PIPING BELOW SLAB WITH 'ARMAFLEX' TYPE INSULATION.

ENERGY NOTES

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE NOTES: STATEMENT OF COMPLIANCE:

TO THE BEST OF MY KNOWLEDGE, AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE (ECCCNYS).

1.

SERVICE WATER HEATING EQUIPMENT PERFORMANCE EFFICIENCY:

1.1.

WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 IN THE 2020 ECCCNYS. (ECCCNYS C404.2)

1.2.

SERVICE WATER HEATING SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH SECTION C408.2 OF THE 2020 ECCCNYS.

2.

TEMPERATURE CONTROL:

2.1.

SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS ALLOWING A SETPOINT OF 110°F AND 90 °F FOR OTHER OCCUPANCIES. PUBLIC REST ROOM LAVATORIES SHALL HAVE A MAXIMUM OUTLET TEMPERATURE OF 110°F.

2.2.

WHERE WATER HEATING EQUIPMENT SERVING NONCIRCULATING SYSTEMS IS NOT SUPPLIED WITH INTEGRAL HEAT TRAPS, HEAT TRAPS SHALL BE PROVIDED ON THE SUPPLY AND DISCHARGE PIPING. (ECCCNYS C404.3)

3.

PIPE INSULATION:

3.1.

AUTOMATIC CIRCULATING HOT WATER SYSTEM PIPING SHALL BE INSULATED WITH 1 INCH OF INSULATION WITH A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH, OR THE INSULATION REQUIREMENTS, WHICHEVER IS GREATER. THE FIRST 3 FT OF PIPING IN NONCIRCULATING SYSTEMS WITH EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH, OR THE INSULATION REQUIREMENTS, WHICHEVER IS GREATER. (ECCCNYS C404.5)

3.2.

ALL PIPING TO BE INSULATED WITH 0.21-0.28 CONDUCTIVITY

3.3.

COLD WATER PIPING - ALL SIZES - 1-INCH INSULATION, A.S. JACKET.

3.4.

STORM DRAINAGE PIPING ALL HORIZONTAL RUNS AND DRAIN BODY - MINIMUM 1-INCH INSULATION, A.S. JACKET.

3.5.

HOT WATER PIPING (140°F) AND TEMPERED WATER PIPING (110°F)

3.5.1.

PIPE SIZE: < 1"INSULATION: 1"

3.5.2.

PIPE SIZE: 1" TO < 1-1/2"INSULATION: 1"

3.5.3.

PIPE SIZE: 1-1/2 TO < 4"INSULATION: 1.5"

3.5.4.

PIPE SIZE: 4" TO < 8"INSULATION: 1.5"

4.

HOT WATER SYSTEM CONTROLS:

4.1.

CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS. (ECCCNYS C404.6)

5.

PIPE VOLUME AND MAXIMUM LENGTHS:

5.1.

PER SECTION OF C404.5.1 OF THE 2020 ECCCNYS, ALL MAXIMUM PIPE LENGTHS FROM FIXTURES SHALL COMPLY WITH THE MAXIMUM PIPE LENGTHS ON THE CHART BELOW. CONTRACTOR TO ENSURE HOT WATER RETURN PIPING IS INSTALLED AS PER PLANS AND THAT THESE LENGTHS ARE MAINTAINED.

NOMINAL PIPE SIZE (INCHES)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FEET)	
		PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4"	0.33	6	50
5/16"	0.5	4	50
3/8"	0.75	3	50
1/2"	1.5	2	43
5/8"	2	1	32
3/4"	3	0.5	21
7/8"	4	0.5	16
1"	5	0.5	13
1-1/4"	8	0.5	8
1-1/2"	11	0.5	6
2" OR LARGER	18	0.5	4

FUEL GAS NOTES

1.

PERFORM ALL WORK IN ACCORDANCE WITH NFPA 54 - NATIONAL FUEL GAS CODE, THE 2020 FUEL GAS CODE OF NEW YORK STATE (FCGNYS), 2015 NATIONAL GRID BLUE BOOK, 2018 CONEDISON YELLOW BOOK, 2017 PSEG NJ BOOK, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

2.

THE DEPTH OF COVER FOR ALL GAS SERVICE PIPING SHALL BE 24 INCHES.

3.

THE WATER SERVICE SHALL BE KEPT A MINIMUM OF 10- FEET FROM THE INCOMING GAS SERVICE MEASURED IN ANY DIRECTION.

4.

IF ELECTRIC AND GAS SHARE A COMMON TRENCH, THE TRENCH MUST BE WIDE ENOUGH TO MAINTAIN A 6-INCH MINIMUM SEPARATION DISTANCE.

5.

LOCATION OF PROPOSED GAS METER ON CONTRACT DOCUMENTS ARE SUBJECT TO CHANGE BY THE LOCAL UTILITY COMPANY.

6.

REFER TO THE LOCAL UTILITY COMPANY HANDBOOKS FOR METER RIG CONSTRUCTION DETAILS, RULES AND REGULATIONS. THIS INCLUDES, BUT NOT LIMITED TO LOCATION OF STEP DOWN REGULATORS, METER SIZE AND SET LENGTHS, VENTING OF REGULATORS, BYPASS PIPING, BOLLARD REQUIREMENTS, CONCRETE PAD, SUPPORTS, AND SHUT OFF VALVES.

7.

GAS PIPING:

7.1.

INDOOR - STEEL PIPE- SCHEDULE 40 WITH WELDED OR THREADED JOINTS. THREADED JOINTS SHALL BE 150 POUND MALLEABLE IRON, FORGED STEEL, BLACK IRON, OR GALVANIZED STEEL.

7.2.

OUTDOOR - ABOVE GROUND - GALVANIZED PIPE OR PROPERLY COATED BLACK STEEL PIPE WITH SCREWED OR THREADED JOINTS.

7.3.

BELOW GRADE - STEEL PIPE- MILL WRAPPED SCHEDULE 40 WITH WELDED OR THREADED JOINTS.

7.4.

WELDED JOINTS MUST BE USED FOR GAS PIPING LARGER THAN 4-INCH.

8.

GAS PIPING ENTERING A BUILDING SHALL BE ABOVE GRADE. PENETRATIONS THROUGH BURIED WALLS ARE NOT PERMITTED.

9.

WHERE GAS PIPING IS INSTALLED BELOW GRADE INSIDE A BUILDING, THE GAS PIPING MUST BE INSTALLED IN A CONDUIT AND BE VENTED TO THE EXTERIOR.

10.

GAS PRESSURE TEST:

10.1.

GALVANIZED OR BARE STEEL - UP TO 14" W.C. - AIR AT 3 PSIG FOR 30 MINUTES - AIR AT 15 PSIG FOR 1-HOUR (SED)

10.2.

GALVANIZED OR BARE STEEL - GREATER THAN 14" W.C. - AIR AT 50 PSIG FOR 30 MINUTES - AIR AT 1.5 TIMES THE WORKING PRESSURE FOR 1-HOUR (SED)

10.3.

COATED OR WRAPPED - LESS THAN 2-INCH - AIR AT 90 PSIG FOR 1-HOUR - ALL SIZES - AIR AT 100 PSIG FOR 1-HOUR (SED)

10.4.

COATED OR WRAPPED - 2-INCH TO 12-INCH - AIR AT 90 PSIG FOR 4-HOURS

11.

SUPPLY ALL GAS-FIRED EQUIPMENT WITH GAS PIPING AS PER THE NEW YORK STATE FUEL GAS CODE. PROVIDE EACHPIECE OF EQUIPMENT WITH A DIRT LEG, UNION AND GAS COCK. PROVIDE A VENTED REGULATOR IF EQUIPMENT REQUIRES LOWER THAN LINE PRESSURE.

12.

PROVIDE VEHICLE IMPACT PROTECTION FOR NEW METER HEADER. BOLLARDS SHALL BE SPACED NO MORE THAN 4- FEET BETWEEN POSTS ON CENTER AND LOCATED NOT LESS THAN 3- FEET FROM THE PROTECTED OBJECT.

13.

SHUTOFF VALVES INSTALLED IN TUBING SYSTEMS MUST BE RIGIDLY AND SECURELY SUPPORTED INDEPENDENTLY OF THE TUBING.

14.

ALL COOKING APPLIANCE CONNECTIONS MUST BE LISTED AND LABELED.

MANUAL GAS VALVE STANDARDS

VALVE STANDARDS	APPLIANCE SHUTOFF VALVE APPLICATION UP TO 1/2 PSIG PRESSURE	OTHER VALVE APPLICATIONS		
		UP TO 1/2 PSIG PRESSURE	UP TO 2 PSIG PRESSURE	UP TO 5 PSIG PRESSURE
ANSI Z21.15/CGA9.1	X	-	-	-
ASME B16.44	X	X*	X**	-
ASME B16.33	X	X	X	X

NOTES:

1.

FOR SI: 1 POUND PER SQUARE INCH GAUGE = 6.895kPa.

2.

X\* IF LABELED 2G

3.

X\*\* IF LABELED 5G

APPLICABLE CODES	
<ul style="list-style-type: none"><li>2020 BUILDING CODE NEW YORK STATE (BCNYS) 1ST PRINTING</li><li>2020 FIRE CODE NEW YORK STATE (FCNYS) 1ST PRINTING</li><li>2020 PLUMBING CODE NEW YORK STATE (PCNYS) 1ST PRINTING</li><li>2020 FUEL GAS CODE NEW YORK STATE (FCGNYS) 1ST PRINTING</li><li>2020 MECHANICAL CODE NEW YORK STATE (MCNYS) 1ST PRINTING</li><li>2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS) 1ST PRINTING</li></ul>	

SEISMIC BRACING NOTES	
GENERAL	
1.	PIPES SHALL BE BRACED IN ACCORDANCE WITH THE NEW YORK STATE BUILDING CODE SECTION 1613, THE LATEST EDITION OF THE SMACNA SEISMIC RESTRAINT MANUAL FOR BUILDINGS WITH SEISMIC DESIGN CATEGORY C, D, AND E FOR FIRE SPRINKLER AND PLUMBING SYSTEMS WITH AN IMPORTANCE FACTOR GREATER THAN 1.0.
2.	ALTERNATIVE DETAILS DIFFERING FROM THE LATEST EDITION OF THE SMACNA MANUAL MAY BE USED IF APPROVED BY THE STRUCTURAL ENGINEER ON RECORD.
3.	IN-LINE EQUIPMENT SHALL BE BRACED INDEPENDENTLY OF THE PIPES. REFER TO THE SEISMIC DETAILS AND SCHEDULES ON THE CONTRACT DOCUMENTS.
4.	COLD-FORMED ANGLES SHALL CONFORM TO THE AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" WITH A MINIMUM FY OF 33 PSI.
5.	HOT-ROLLED SHAPES AND PLATES SHALL CONFORM TO ASTM A36. PIPES USED AS BRACES SHALL BE STANDARD STEEL PIPES PER ASTM A500-A OR A-53.
6.	PIPE HANGERS SHALL BE POSITIVELY ATTACHED TO THE SUPPORTING STRUCTURE ABOVE. THE USE OF C-CLAMPS OR OTHER FRICTION-TYPE ANCHORS TO HANG PIPE IS PROHIBITED IN SEISMIC REGIONS. FRICTION-TYPE ANCHORS SUCH AS C-CLAMPS WITH PROPERLY ATTACHED RETAINING STRAPS MAY BE USED IF APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
7.	REFER TO THE STRUCTURAL DRAWINGS FOR ACCEPTABLE EXPANSION ANCHOR TYPES AND TEST LOADS AS REQUIRED.
8.	APPROPRIATE EXPANSION/CONTRACTION CAPABILITIES SHALL BE PROVIDED IN PIPES WHICH CROSS BUILDING EXPANSION JOINTS. THE TOTAL RELATIVE MOVEMENT IN ANY HORIZONTAL DIRECTION ON EACH SIDE OF THE JOINT SHALL BE EQUAL TO THE SIZE OF THE BUILDING JOINT.
9.	REQUIREMENTS FOR BRACING OF PIPES:
9.1.	BRACING, DETAILS, SCHEDULES AND NOTES APPLY TO ALL TYPES OF PIPES.
9.2.	BRACE PIPING AS DESCRIBED.
9.2.1.	FUEL-OIL, FUEL GAS, AND COMPRESSED AIR PIPING THAT IS NOMINAL 1-INCH OR LARGER.
9.2.2.	PIPING LOCATED IN BOILER ROOMS, MECHANICAL EQUIPMENT ROOMS THAT IS NOMINAL 2-INCH OR LARGER.
9.2.3.	ALL OTHER PLUMBING AND SPRINKLER PIPING LARGER THAN NOMINAL 2-INCH.
9.2.4.	PIPING SUSPENDED BY INDIVIDUAL HANGERS 12-INCH OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE AND THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT BE BRACED. HOWEVER, HANGERS FOR PIPING, REGARDLESS OF SIZE, SHALL BE POSITIVELY ATTACHED TO THE SUPPORTING STRUCTURE ABOVE. FRICTION-TYPE ANCHORS SUCH AS C-CLAMPS SHALL NOT BE PERMITTED TO SUPPORT PIPE.
10.	TRANSVERSE BRACING SHALL BE AT 40-FEET MAXIMUM, EXCEPT WHERE A LESSER SPACING IS INDICATED IN THE TABLES FOR BRACING OF PIPES.
11.	LONGITUDINAL BRACING SHALL BE AT 80-FEET MAXIMUM EXCEPT WHERE THE LESSER SPACING IS INDICATED IN THE TABLES, IN PIPES WHERE THERMAL EXPANSION IS A CONSIDERATION, AN ANCHOR POINT MAY BE USED AS THE SPECIFIED LONGITUDINAL BRACE PROVIDED IT HAS A CAPACITY EQUAL TO OR GREATER THAN LONGITUDINAL BRACE. THE LONGITUDINAL BRACES AND CONNECTIONS MUST BE CAPABLE OF RESISTING THE ADDITIONAL FORCE INDUCED BY EXPANSION AND CONTRACTION.
12.	FOR FUEL OIL AND GAS PIPING, THE BRACING DETAILS, SCHEDULES, AND NOTES MAY BE USED, EXCEPT THAT TRANSVERSE BRACING SHALL BE AT 20-FEET MAXIMUM AND LONGITUDINAL BRACING SHALL BE AT 40-FEET MAXIMUM.
13.	TRANSVERSE BRACING FOR ONE PIPE SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR A PIPE SECTION OF THE SAME SIZE AND CONNECTED PERPENDICULAR TO IT IF THE BRACING IS INSTALLED WITHIN 24-INCHES OF THE ELBOW OR THE TEE. SEE CHAPTER 4 OF THE SMACNA SEISMIC RESTRAINT MANUAL FOR TYPICAL LOCATIONS OF BRACING.
14.	SEISMIC BRACES FOR PIPES ON TRAPEZE HANGERS MAY BE USED.
15.	PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING EXPANSION JOINTS OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.
16.	BRANCH LINES SHALL NOT BE USED TO BRACE MAIN LINES.
17.	A RIGID PIPING SYSTEM SHALL NOR BE BRACED TO DISSIMILAR PARTS OF THE BUILDING OR TO TWO DISSIMILAR BUILDING SYSTEMS THAT MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE.
18.	CAST-IRON PIPE OF ALL TYPES, GLASS PIPE, AND OTHER PIPE JOINED WITH A SHIELD AND CLAMP ASSEMBLY, WHERE THE TOP OF THE PIPE IS 12-INCHES OR MORE FROM THE SUPPORTING STRUCTURE, SHALL BE BRACED ON EACH SIDE OF A CHANGE IN DIRECTION OF 90-DEGREES OR MORE.
19.	RISER JOINTS SHALL BE BRACED OR STABILIZED BETWEEN FLOORS.
20.	VERTICAL RISERS SHALL BE Laterally SUPPORTED WITH A RISER CLAMP AT EACH FLOOR.
21.	FOR RISERS IN HUBLESS PIPING SYSTEMS WHERE THE RISER JOINTS ARE UNSUPPORTED BETWEEN FLOORS, SEE CHAPTER 9 OF THE SMACNA SEISMIC RESTRAINT MANUAL FOR RISER BRACING DETAILS.
22.	THE SPACING OF VERTICAL SUPPORTS AND LATERAL BRACING, AND THE DETAILS OF THE VERTICAL SUPPORTS FOR THE FIRE-SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13, CHAPTER 9.
EQUIPMENT REQUIREMENTS	
1.	CONTRACTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE FROM EACH EQUIPMENT MANUFACTURER STATING THAT EQUIPMENT WITH AN OPERATING WEIGHT OVER 400 POUNDS THAT ARE FLOOR OR ROOF MOUNTED, 20 POUNDS OR GREATER FOR SUSPENDED OR WALL MOUNTED EQUIPMENT, OR EQUIPMENT THAT MUST REMAIN OPERATIONAL DURING AN EARTHQUAKE, WILL WITHSTAND THE SEISMIC DESIGN PROVISIONS OF THE 2020 INTERNATIONAL BUILDING CODE.
2.	EQUIPMENT TO REMAIN OPERATIONS SHALL INCLUDE BUT NOT LIMITED TO:
2.1.	LIFE SAFETY SYSTEMS AND EQUIPMENT
2.2.	EMERGENCY AND STANDBY SYSTEMS
2.3.	MEDICAL GAS SYSTEMS, EQUIPMENT AND STORAGE
2.4.	EQUIPMENT UTILIZING FUEL-OIL AND FUEL-GAS
2.5.	EQUIPMENT CONVEYING HAZARDOUS MATERIALS
2.6.	ALL PLUMBING EQUIPMENT SERVICING PATIENT OR CLINICAL CARE AREAS
3.	WHERE SEISMIC CALCULATIONS ARE REQUIRED FOR EQUIPMENT SUBMITTALS, THESE SHALL BE PERFORMED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF NEW YORK, WHO SHALL SIGN AND SEAL THESE CALCULATIONS. CALCULATIONS SHALL UTILIZE SEISMIC DESIGN FORCES AS FOUND IN THE 2020 INTERNATIONAL BUILDING CODE.
4.	OTHER FLOOR OR PAD MOUNTED EQUIPMENT WITHOUT VIBRATION ISOLATORS SHALL BE BOLTED TO THE SLAB WITH 3/8-INCH DIAMETER EXPANSION BOLTS. SEE STRUCTURAL DRAWINGS FOR MORE DETAIL ON TYPE OF BOLT AND SPACING REQUIREMENTS.
5.	VIBRATION ISOLATORS AND THE ANCHORAGE OF THESE ASSEMBLIES FOR FLOOR OR ROOF MOUNTED OR SUSPENDED EQUIPMENT SHALL BE DESIGNED FOR THE APPROPRIATE SEISMIC FORCES PER THE 2020 INTERNATIONAL BUILDING CODE.

CONSULTANTS:		

MARK	DATE	DESCRIPTION

STATE OF NEW YORK

JONATHAN RICHARD MURATORE

10/31/2027

10/31/2027

EXP. DATE

JONATHAN R. MURATORE, P.E.

NY PROFESSIONAL ENGINEER Lic. No. 096440

"IN ACCORDANCE WITH ARTICLE 146, SECTION 1208 OF THE NYS EDUCATION LAW,  
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DRAWN BY: MPF/CRG

CHECKED BY: JRM

REVIEWED BY: JRM

PROJECT NO.:

DATE:

SCALE:

CLIENT

THIELLS  
ROSEVILLE FIRE  
DISTRICT

NEW 26-100 FIRE  
HEADQUARTERS

65 W RAMAPO RD  
GARNERVILLE, NY 10923

CONTRACT

CONTRACT P  
PLUMBING CONTRACT

STATUS

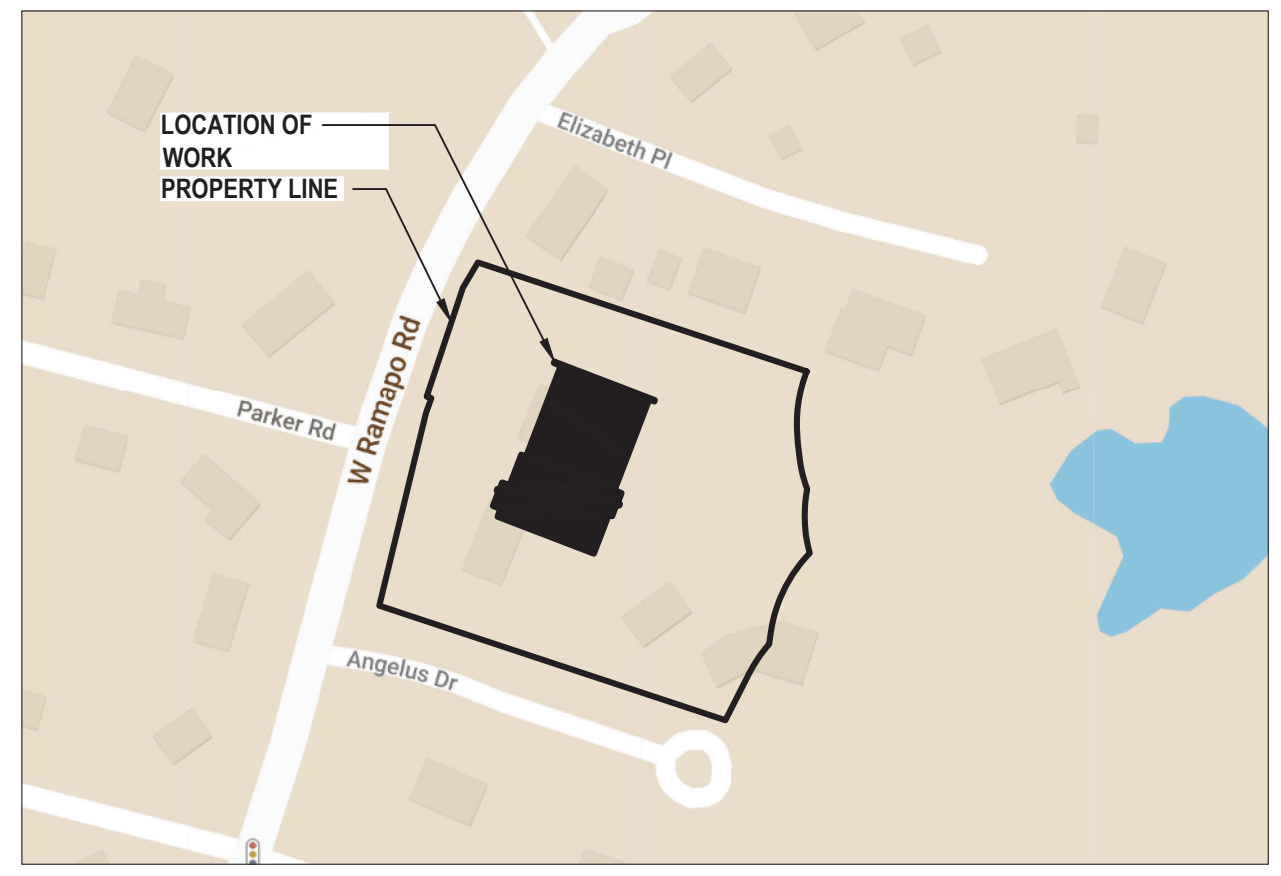
FINAL BID DOCUMENT

SHEET TITLE

PLUMBING SITE PLAN

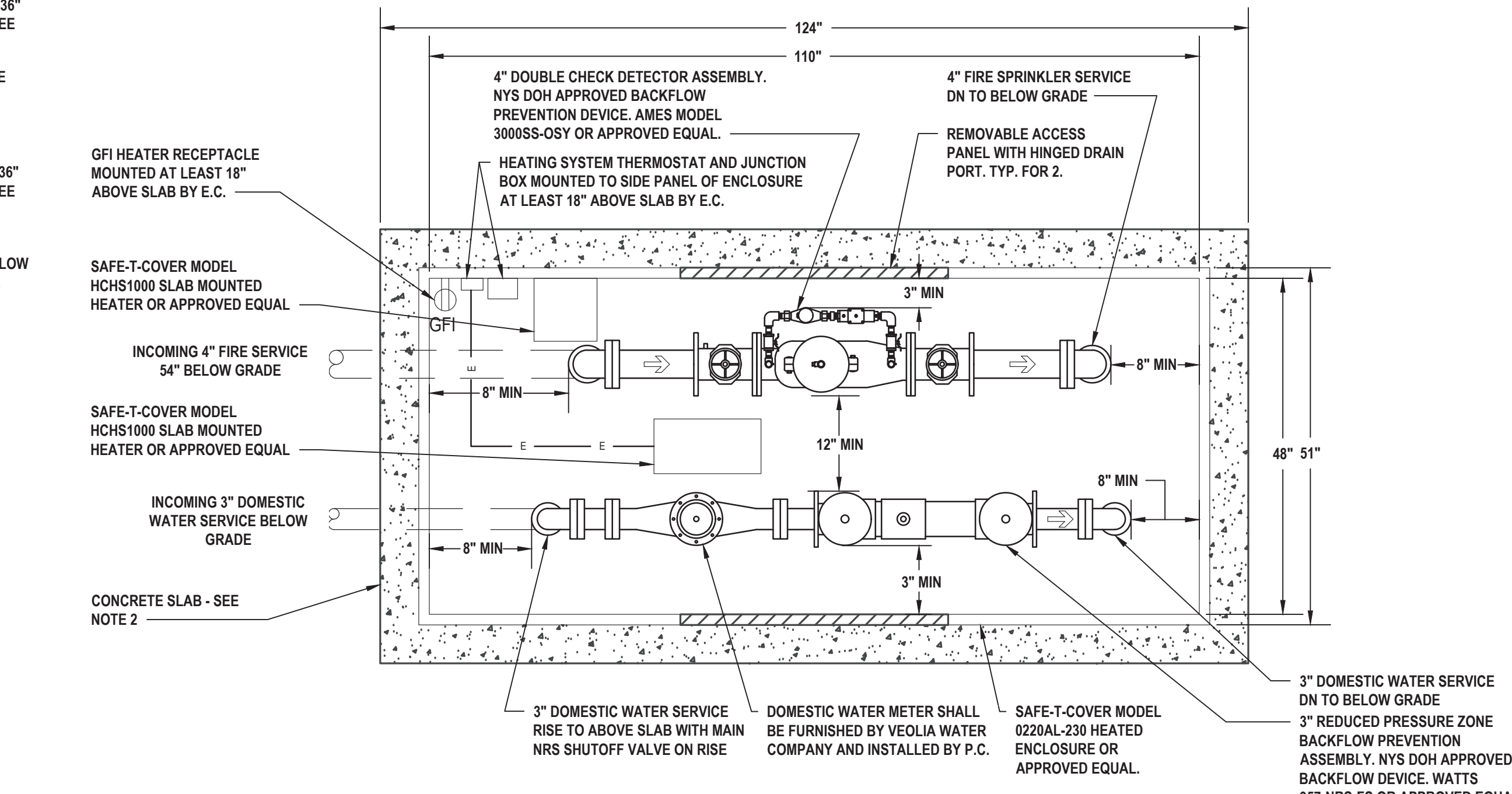
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PS 100.00



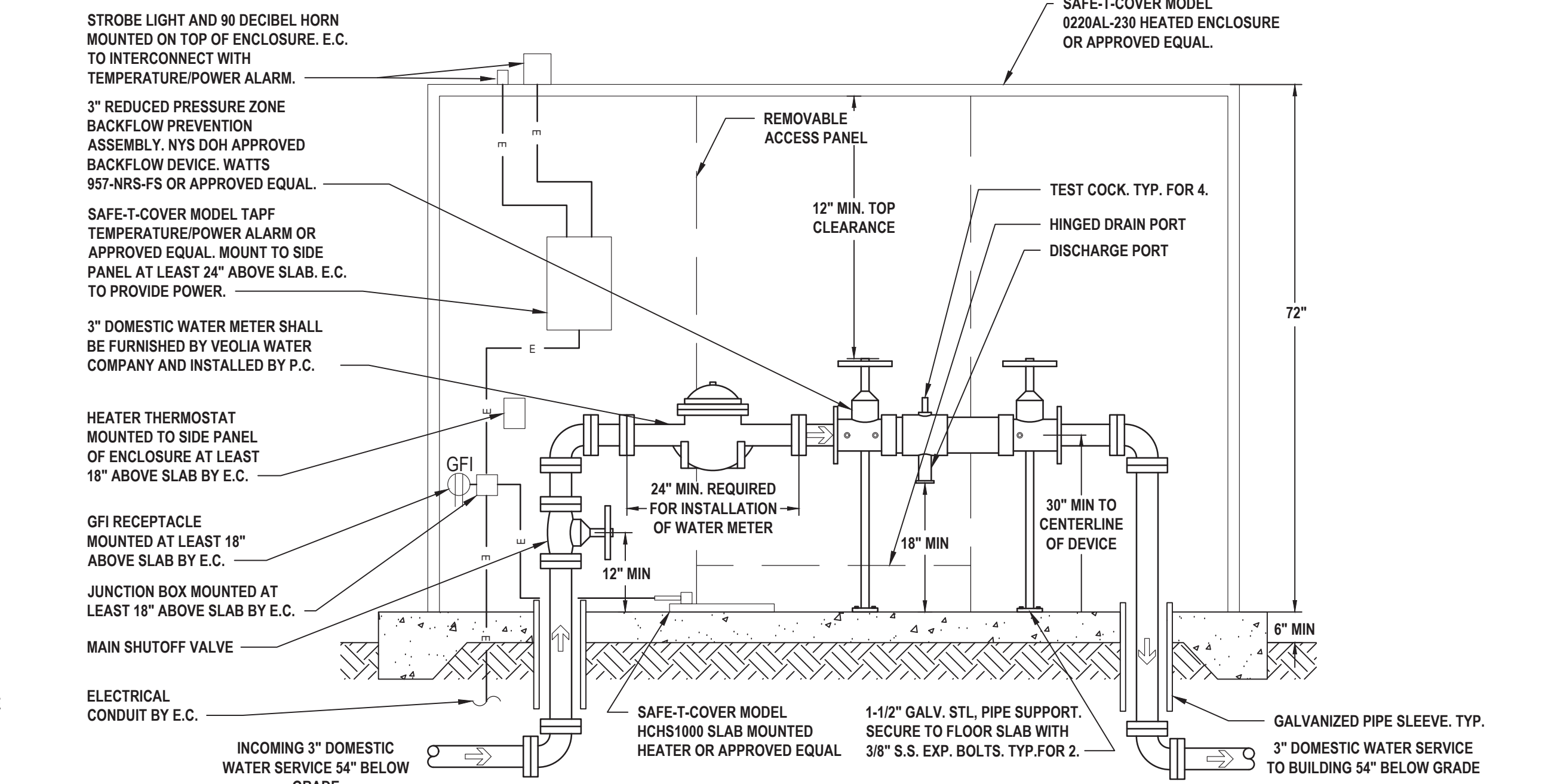
2 Key Map  
SCALE: N.T.S.

- DOMESTIC WATER AND FIRE SERVICE BACKFLOW PREVENTION NOTES:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE COUNTY DEPARTMENT OF HEALTH SERVICES, NEW YORK STATE HEALTH DEPARTMENT REGULATIONS, AND VEOLIA WATER COMPANY REGULATIONS.
  2. ALL CONNECTIONS ON THE WATER SERVICE SHALL BE DOWNSTREAM FROM THE BACKFLOW PREVENTION DEVICE. BYPASSING OF A BACKFLOW PREVENTION DEVICE IS A VIOLATION OF NEW YORK STATE HEALTH DEPARTMENT RULES AND REGULATIONS.
  3. THE CONTRACTOR SHALL ENGAGE A CERTIFIED BACKFLOW PREVENTION DEVICE TESTER TO TEST THE BACKFLOW PREVENTION DEVICE AFTER INSTALLATION. IT IS THE OWNER'S RESPONSIBILITY TO HAVE EACH DEVICE CERTIFIED AT LEAST ANNUALLY WITH RESULTS REPORTED TO VEOLIA WATER COMPANY AND TO THE COUNTY DEPARTMENT OF HEALTH. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED TESTING AND APPLICATION FEES.
  4. SHUT-OFF VALVES ON DOMESTIC WATER SERVICE BFP DEVICE SHALL BE NRS TYPE GATE VALVES AND SHALL BE SAME MANUFACTURER AS BFP DEVICE.
  5. SHUT-OFF VALVES ON FIRE SERVICE BFP DEVICE SHALL BE OS&Y TYPE GATE VALVES AND SHALL BE SAME MANUFACTURER AS BFP DEVICE.
  6. TEST COCKS ON THE BFP DEVICE SHALL BE POSITIONED TO FACILITATE TESTING WITH 30" MINIMUM CLEARANCE.
  7. BACKFLOW DEVICES MAY NOT BE MODIFIED IN ANY WAY DURING INSTALLATION.
  8. 3" DOMESTIC WATER SERVICE SHALL BE TYPE K COPPER AND 4" FIRE SERVICE SHALL BE DUCTILE IRON.
  9. ALL WATER SERVICES TO HAVE A MINIMUM OF 54" OF COVER.
  10. PIPING SHALL BE UN-BRANCHED AND UNRESTRICTED FROM THE SUPPLY MAIN TO THE DEVICE, EXCEPT FOR THE METER.
  11. CONTRACTOR SHALL PROVIDE APPROPRIATE FLOOR/WALL SUPPORTS FOR ALL DEVICES AND PIPING. ALL SUPPORTS/HANGERS/CLAMPS SHALL BE GALVANIZED STEEL.
  12. BACKFLOW DEVICES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
  13. DEVICE MAY NOT BE INSTALLED HIGHER THAN 5'-0" ABOVE THE FLOOR OR A FIXED PLATFORM IS REQUIRED.
  14. WATER SERVICE LINES TO MAINTAIN A MINIMUM CLEARANCE OF 10'-0" FROM GAS SERVICE, SEWER LINES, ELECTRICAL SERVICE, DRAINAGE LINES, UTILITY POLES, TREES, ETC.

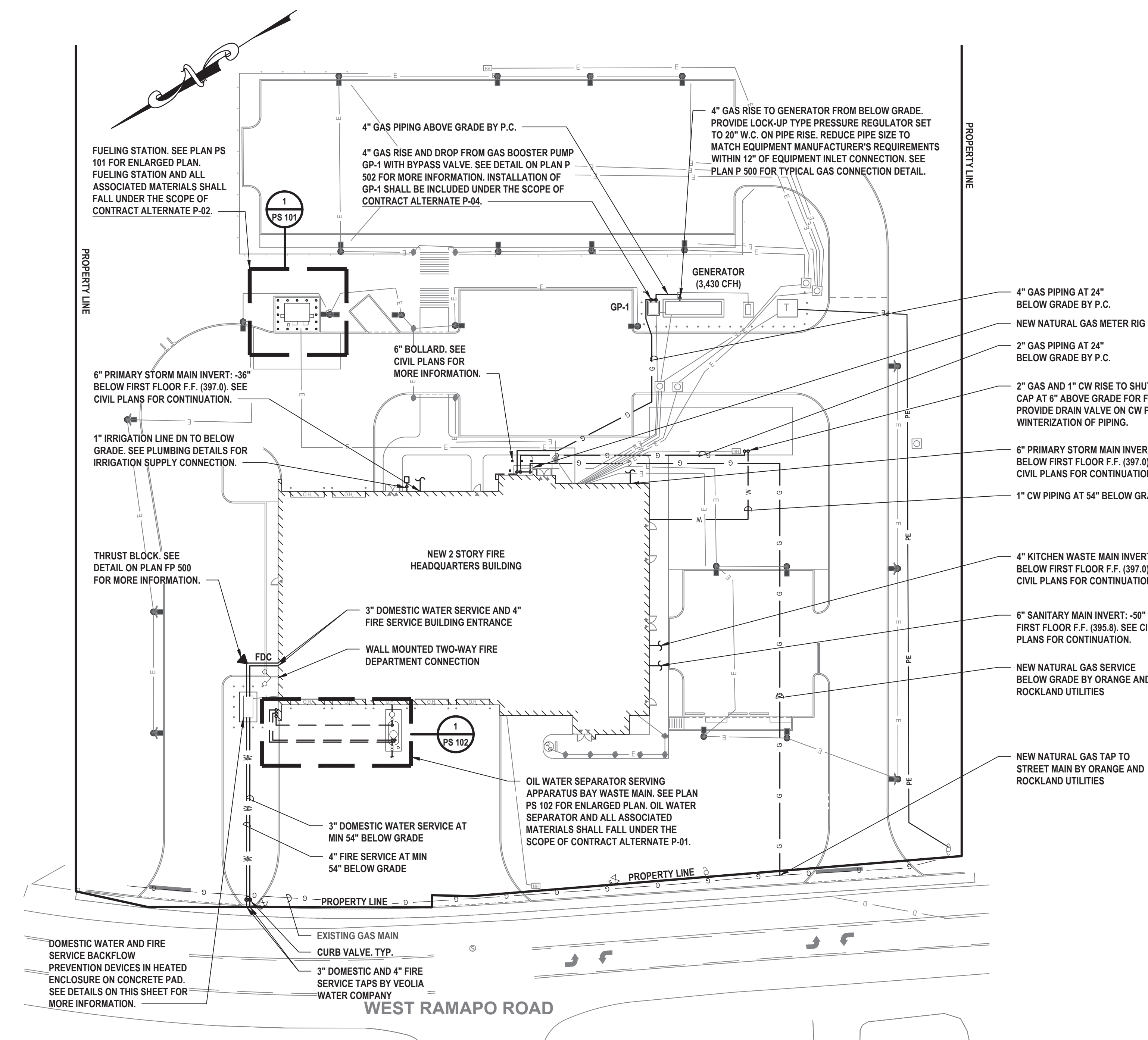


3 Domestic and Fire Service Backflow Plan View  
SCALE: 3/4"=1'-0"

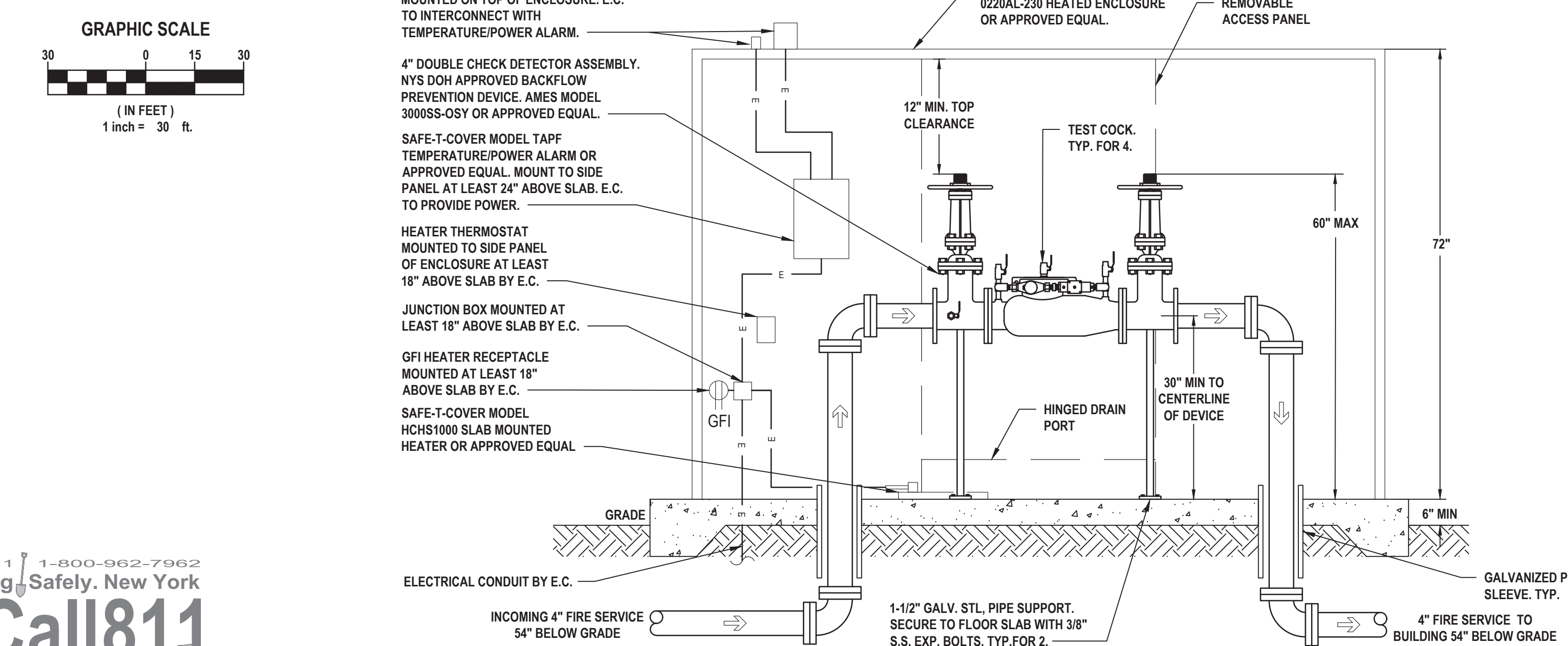
- NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
  2. RECOMMENDED SLAB SIZE: 62"W X 124"L X 6" THICKNESS (3,500 PSI W/ REINFORCING).
  3. GFI RECEPTACLE SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE SLAB. CONTRACT "E" SHALL PROVIDE ALL POWER WIRING TO RECEPTACLE AND HEATER.
  4. THE ENCLOSURE SHALL USE A SINGLE, 2,000W, 240V, SINGLE PHASE SLAB MOUNT HEATER. THE HEATER SHALL BE PROVIDED WITH A 208V, SINGLE PHASE POWER FEED AND SHALL PROVIDE A DERATED POWER OUTPUT OF 1,500W.
  5. A POWER INDICATING LIGHT SHALL BE INSTALLED ON THE OUTSIDE OF THE HEATED ENCLOSURE.



5 Domestic Water Service Backflow Prevention Detail  
SCALE: 3/4"=1'-0"

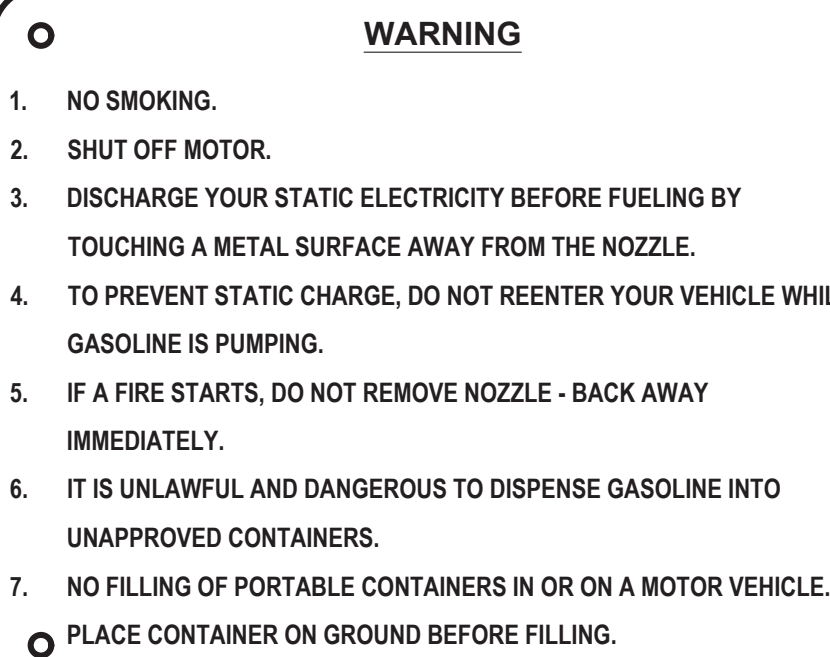


1 Plumbing Site Plan  
SCALE: 1"=30'



4 Fire Service Backflow Prevention Detail  
SCALE: 3/4"=1'-0"

X:\TPOD\Thiells\Roseville Fire District\TPOD2022\New Fire Station\02-BIM\CADD\Con-Doc\12 Plumbing\PS 100.00 - Plumbing Site Plan.dwg, Last Modified: Feb 25, 2025 - 4:14pm, Plotted on: Feb 25, 2025 - 4:52pm, By: mrfelham



- IN CASE OF FIRE, SPILL OR RELEASE:**

## NYS Fire Code Signage

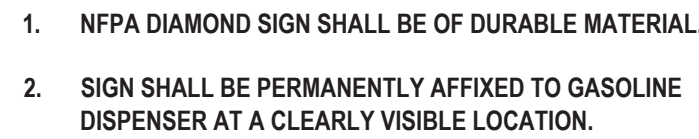
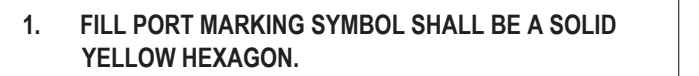


**EMERGENCY  
SHUT-OFF**

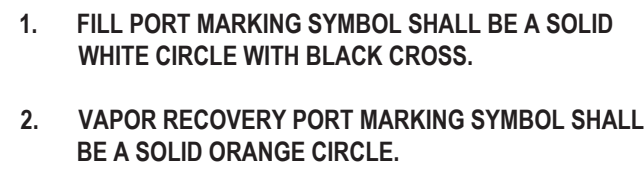
**SIGN 'D'**

1. SIGNS SHALL BE OF DURABLE MATERIAL.
2. SIGN 'A' - "DANGER" SHALL BE WHITE LETTERING ON A RED BACKGROUND. ALL LETTERS SHALL NOT BE LESS THAN 3" IN HEIGHT AND 1/2" IN STROKE.
3. SIGN 'B' - "DANGER" AND HAZCOM "FLAMMABLE" SIGNS SHALL BE PERMANENTLY AFFIXED TO OR NEAR DISPENSER AT CLEARLY VISIBLE LOCATIONS.
4. SIGN 'C' - "CAUTION" SIGN SHALL BE PERMANENTLY AFFIXED IN A CLEARLY VISIBLE LOCATION ABOVE OR BELOW THE OVERFILL ALARM PANEL.
5. SIGN 'D' - "EMERGENCY SHUT-OFF" SIGN SHALL BE PERMANENTLY AFFIXED IN A CLEARLY VISIBLE LOCATION AT OR NEAR EMERGENCY KILL SWITCH(ES).

- ## HazCom Signage



- ## 5 Diesel Fuel Signage

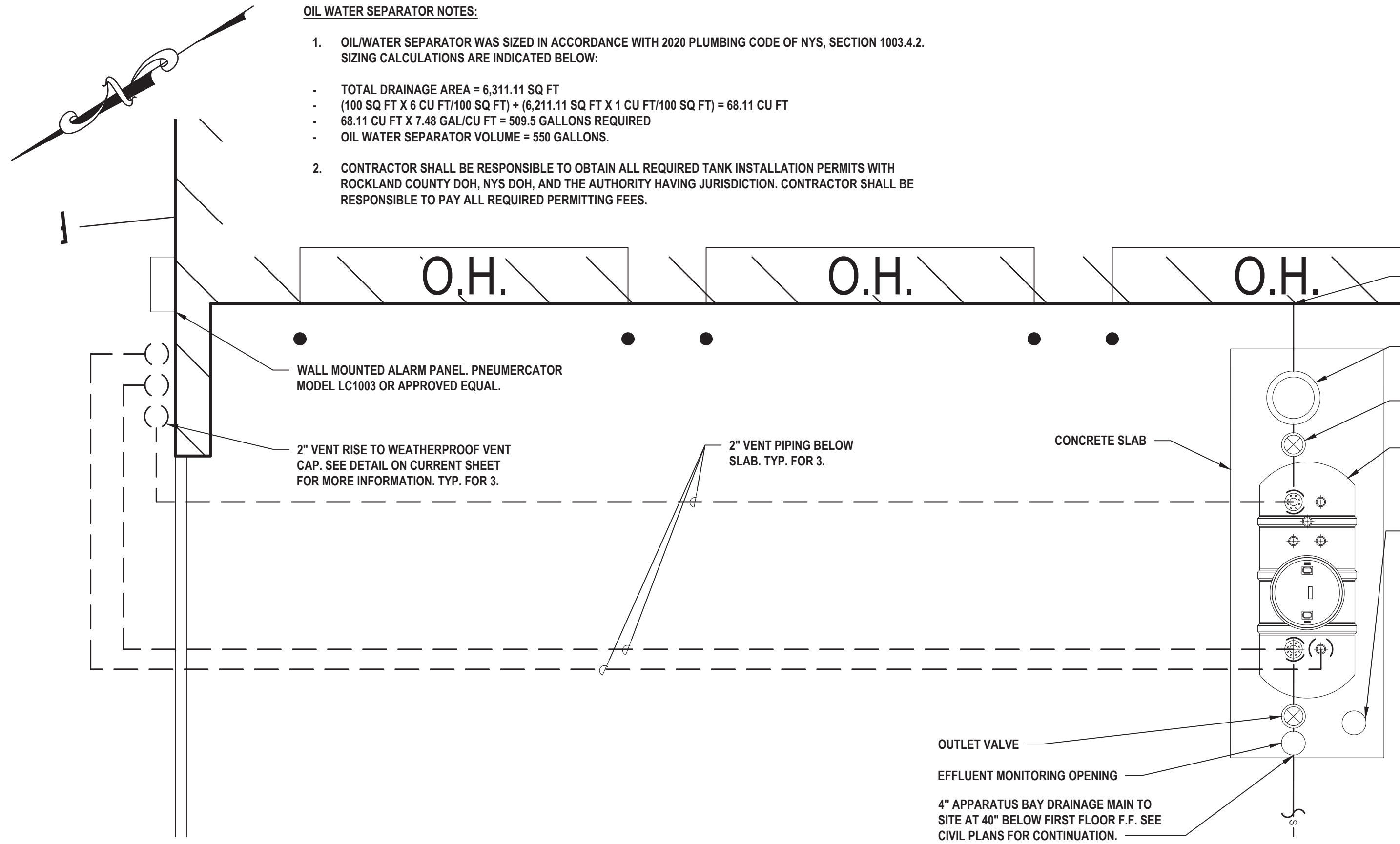


- NOTES:**
1. NFPA DIAMOND SIGN SHALL BE OF DURABLE MATERIAL.
  2. SIGN SHALL BE PERMANENTLY AFFIXED TO GASOLINE DISPENSER AT A CLEARLY VISIBLE LOCATION.

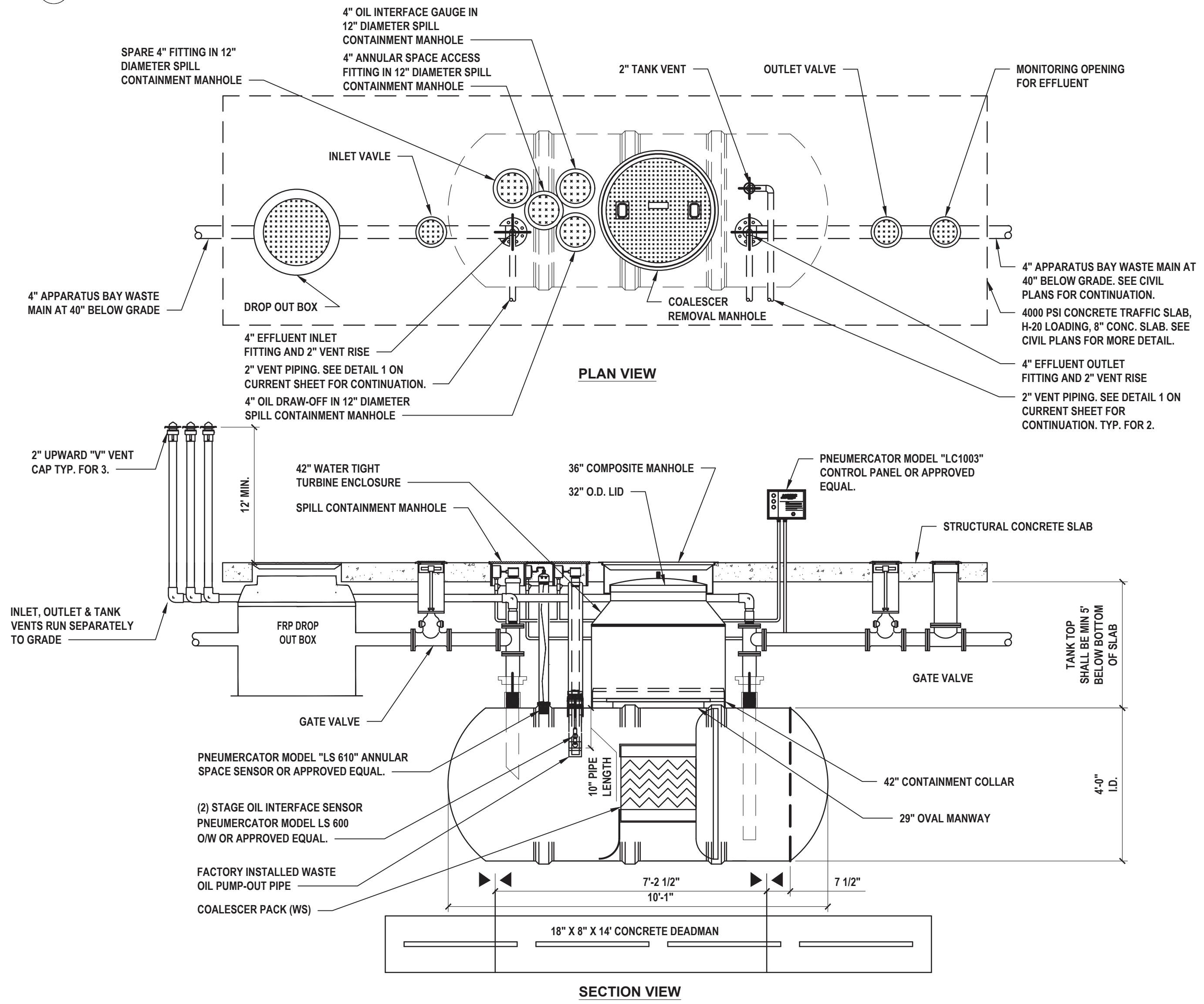
- ## 7 Gasoline Signage

1. LABEL SHALL BE OF DURABLE MATERIAL.
2. LABEL SHALL BE PERMANENTLY AFFIXED INSIDE FILL PORT (WITH 18-INCH STAINLESS STEEL CHAIN) AND AT TANK MONITORING PANEL.

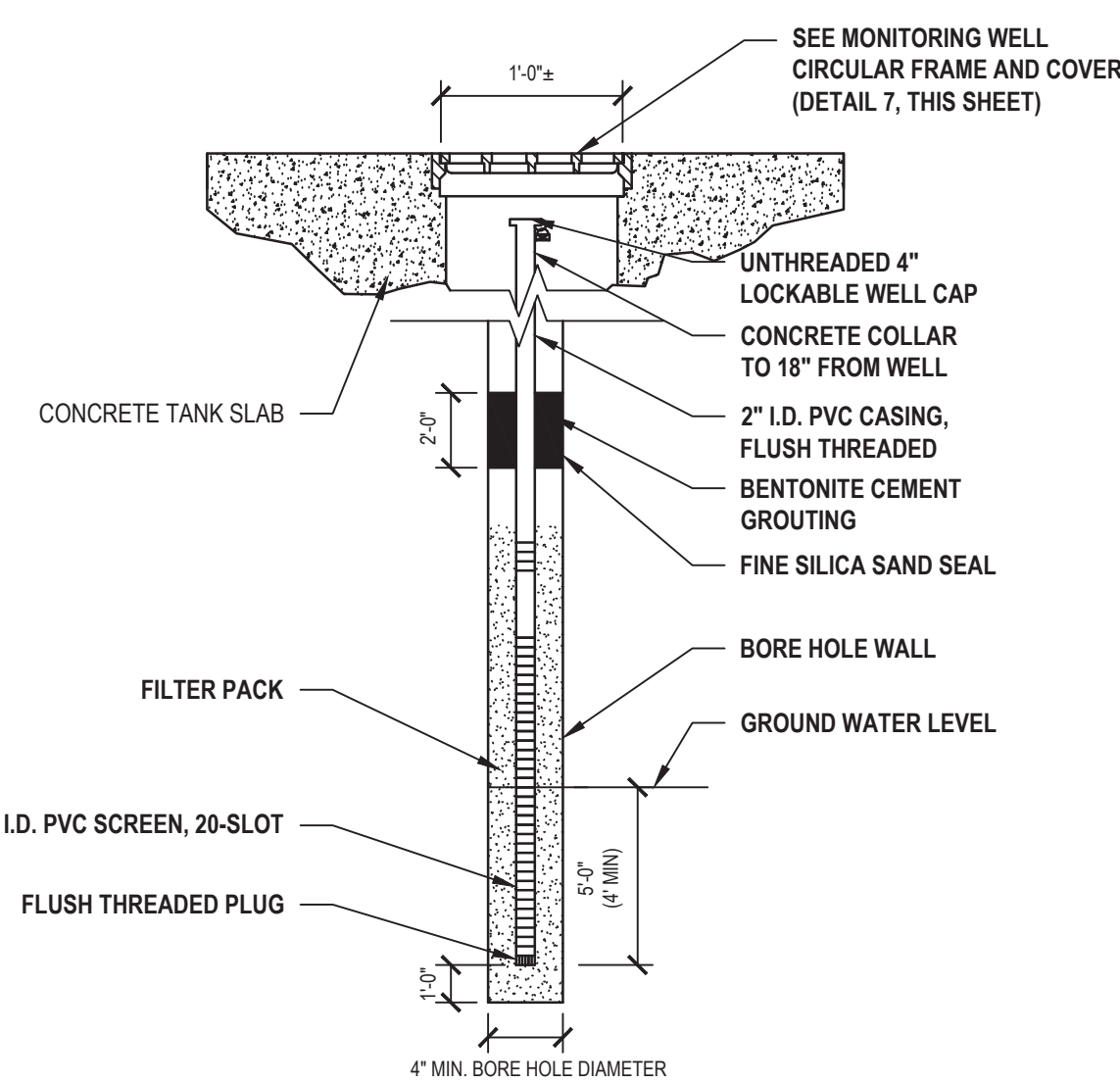
1. LABEL SHALL BE OF DURABLE MATERIAL.
2. LABEL SHALL BE PERMANENTLY AFFIXED INSIDE FILL PORT (WITH 18-INCH STAINLESS STEEL CHAIN) AND AT TANK MONITORING PANEL.



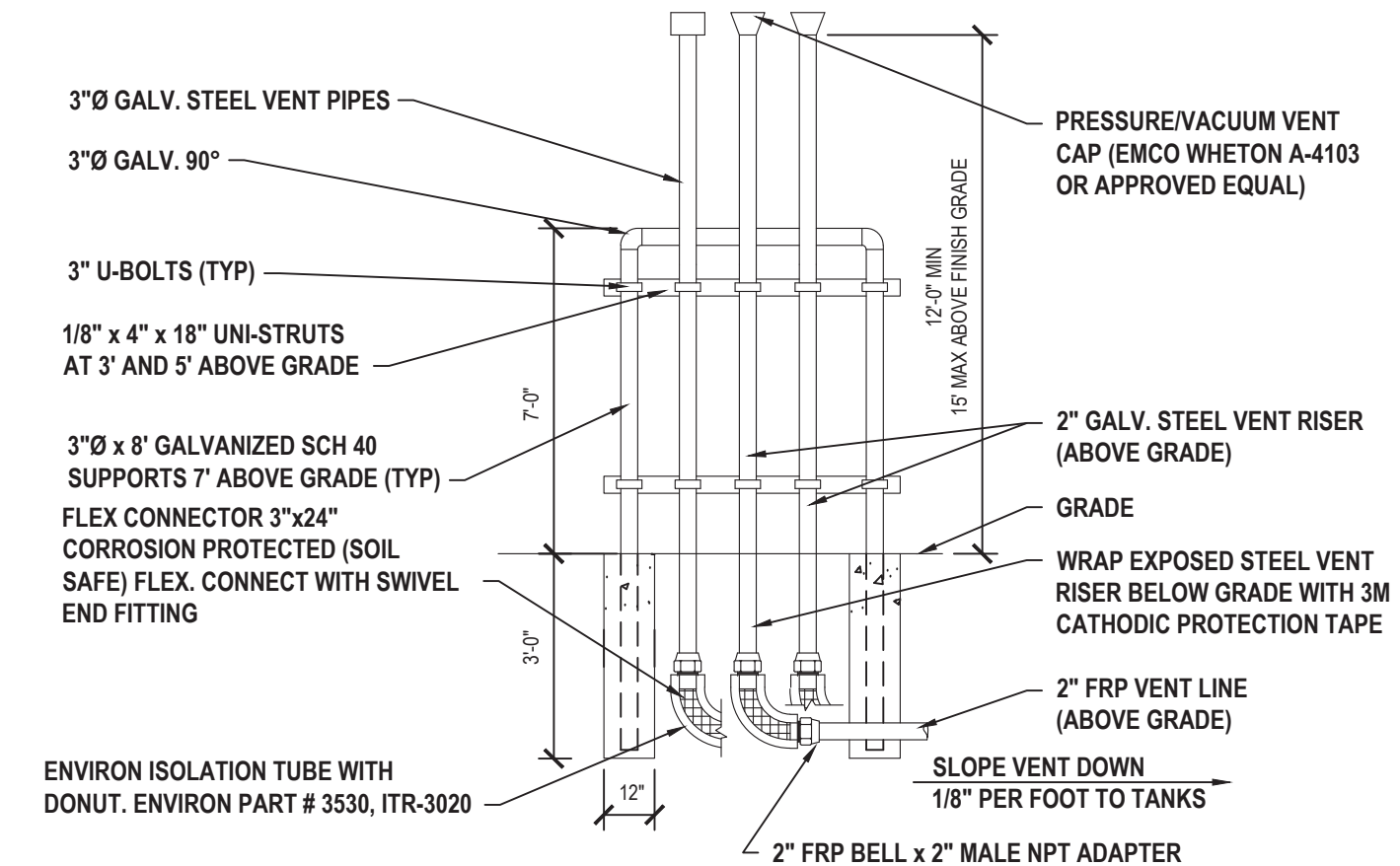
1 Oil Water Separator Enlarged Plan  
SCALE: 1/2"=1'-0"



6 Oil Water Separator Details  
SCALE: N.T.S.

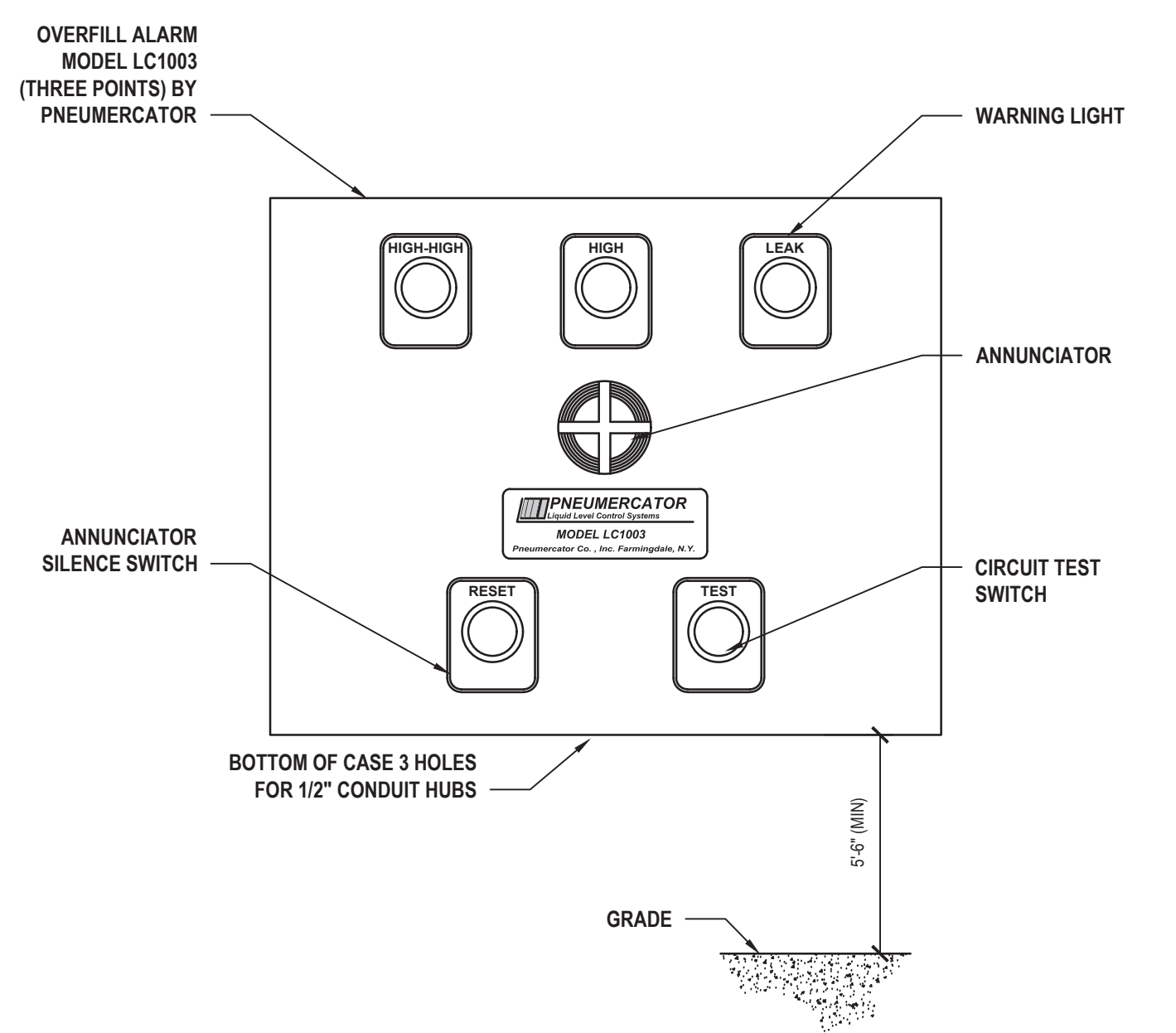


2 Monitoring Well  
SCALE: NTS

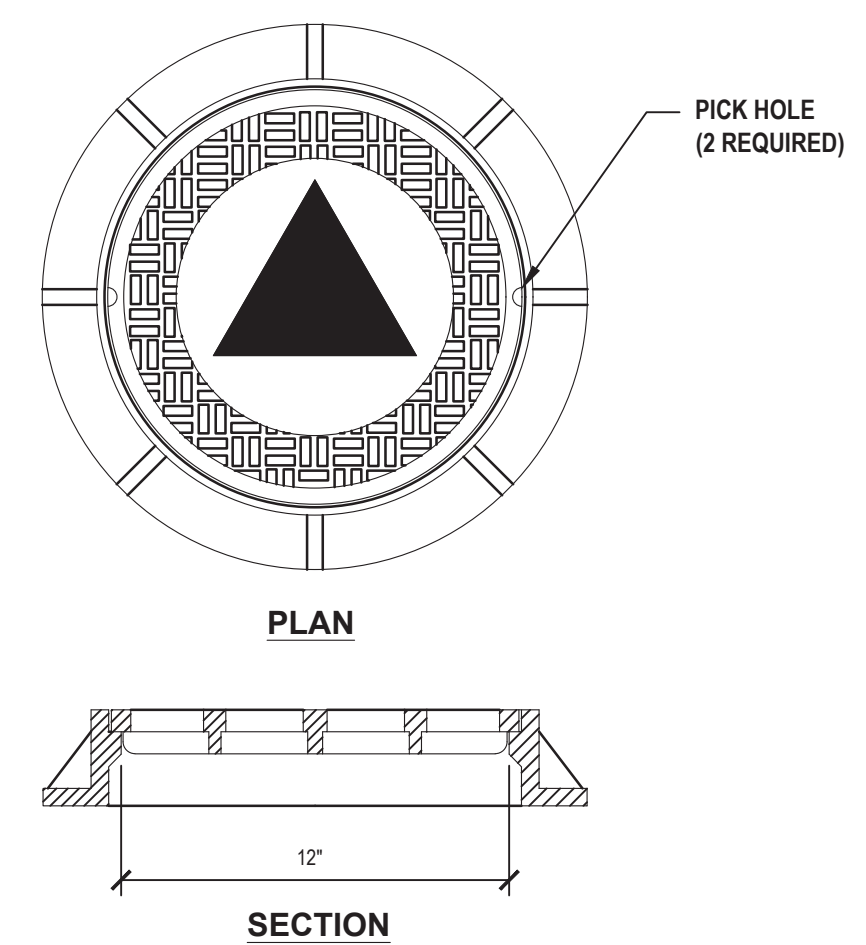


- NOTES:
- 1. VENT RISER TO EXTEND A MINIMUM OF 12' ABOVE GRADE WHEN LOCATED IN REMOTE AREA.
  - 2. ALL STEEL PIPES & CLAMPS ABOVE GRADE SHALL BE PAINTED.
  - 3. PRIOR TO PAINTING, ALL GALVANIZED METAL MUST BE PROPERLY PREPPED. PROVIDE BOLLARDS TO PROTECT VENTS AS NECESSARY.
  - 4. A MINIMUM DISTANCE OF 5' (PER FIRE AND ELECTRIC CODE) IS REQUIRED FROM ANY ELECTRICAL WIRES AND EQUIPMENT TO THE OPEN END OF THE VENT, EXTENDING IN ALL DIRECTIONS.

4 Vent Risers  
SCALE: NTS SPECIFICATION #

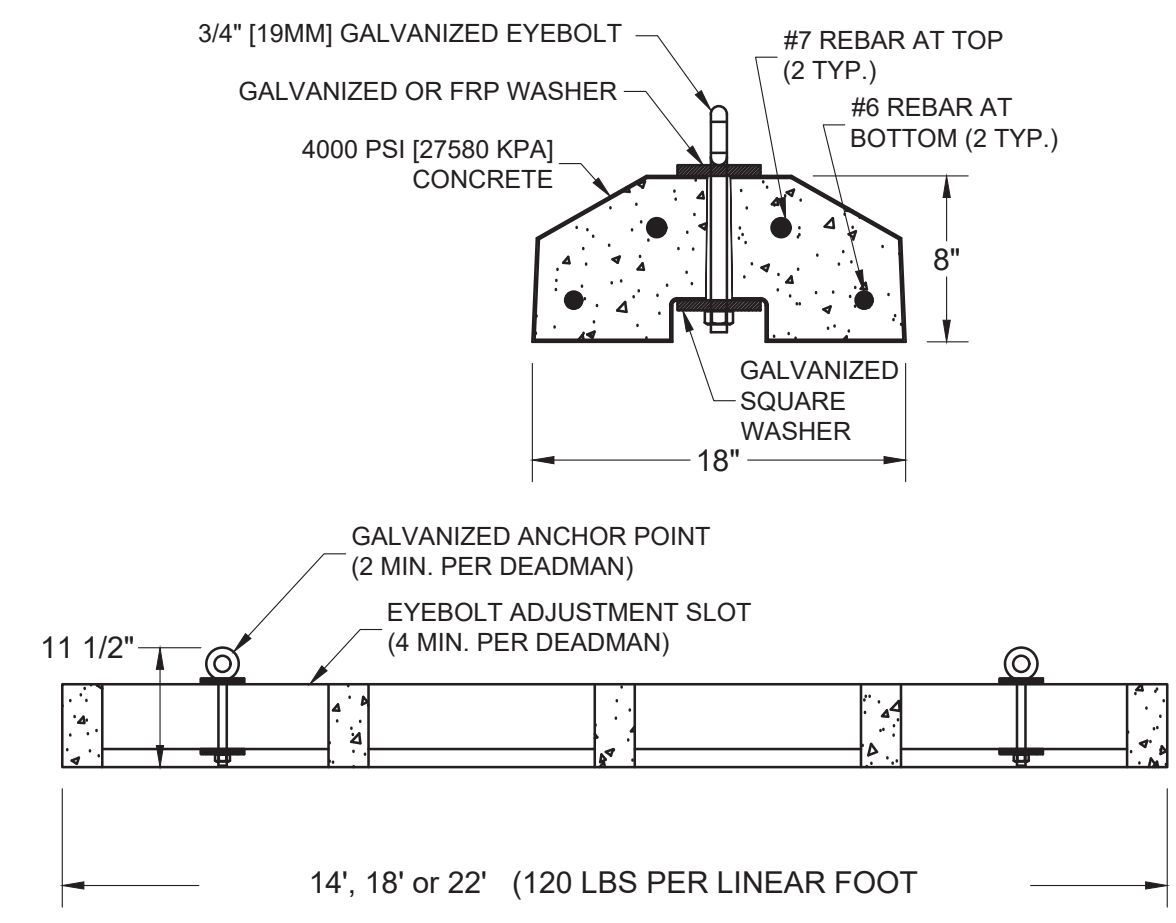


1 Audible / Visual Overfill Alarm  
SCALE: NTS SPECIFICATION #

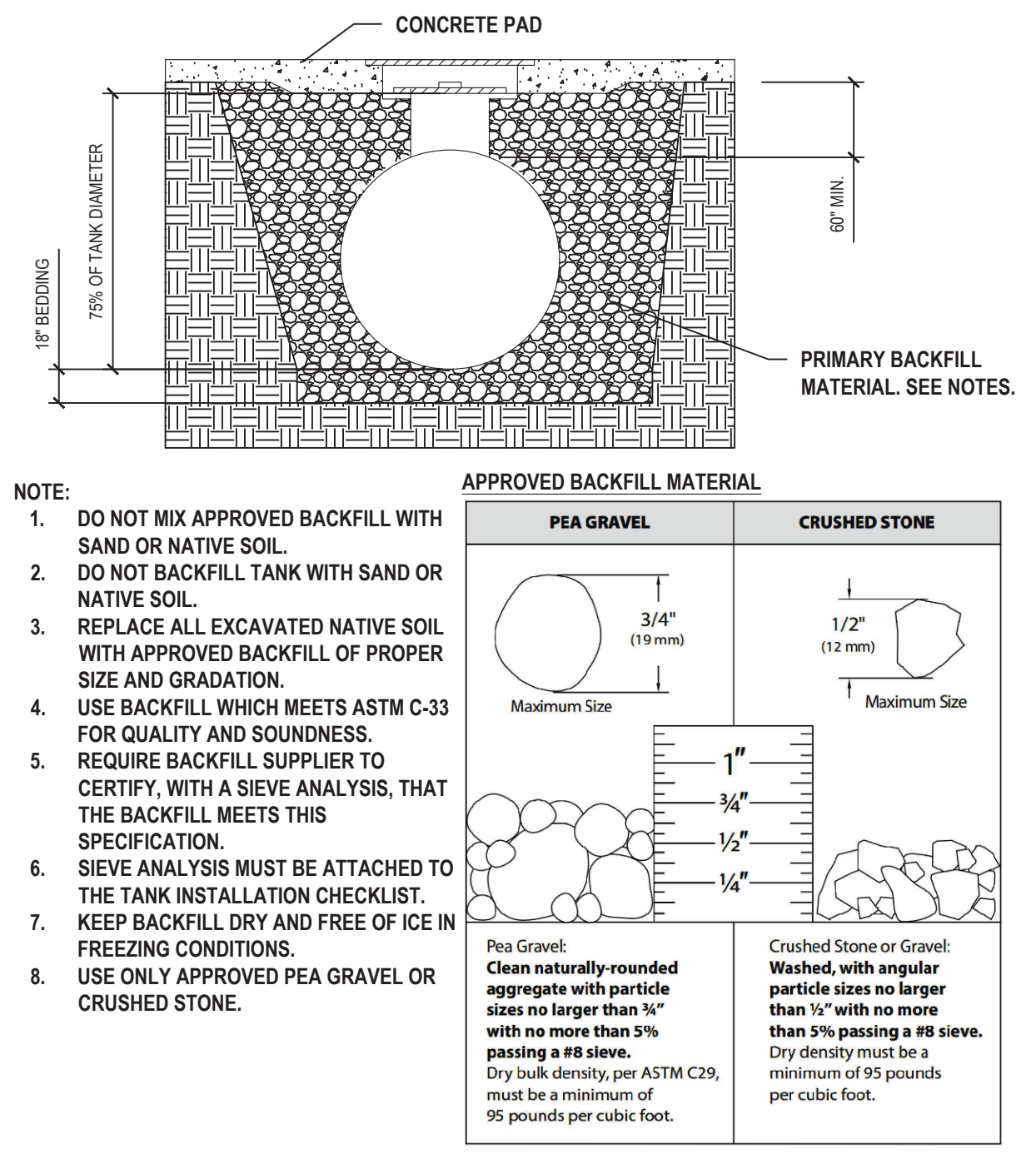


- NOTE:
- 1. CASTINGS MUST BE CAST IRON CAPABLE OF SUPPORTING THE AASHTO HS-20 HIGHWAY LOADING.
  - 2. MONITORING WELL MANHOLE COVER MARKING SYMBOL SHALL BE A BLACK EQUILATERAL TRIANGLE ON A WHITE BACKGROUND.

3 Monitoring Well Circular Frame & Cover - Heavy Duty  
SCALE: NTS



5 UGST Concrete Deadman  
SCALE: NTS



7 Typical Tank Backfill Detail  
SCALE: NTS

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Melville, NY 11747  
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NY Engineering Certificate of Authorization No. 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION

STATE OF NEW YORK  
JONATHAN RICHARD MURATORE  
LICENSED PROFESSIONAL ENGINEER  
096440-1  
10/31/2027  
EXP. DATE  
JONATHAN R. MURATORE, P.E.  
NY PROFESSIONAL ENGINEER Lic. No. 096440  
"IN ACCORDANCE WITH ARTICLE 146, SECTION 1708 OF THE NYS EDUCATION LAW,  
ALTERNATION OF THIS DOCUMENT EXCEPT BY LICENSED PROFESSIONAL IS ILLEGAL."  
DESIGNED BY: CRG DRAWN BY: MPF/CRG CHECKED BY: JRM REVIEWED BY: JRM  
PROJECT NO: TRFD 2302 DATE: FEBRUARY 2025 SCALE: AS SHOWN

CLIENT  
**THIELLS  
ROSEVILLE FIRE  
DISTRICT**  
  
NEW 26-100 FIRE  
HEADQUARTERS  
  
  
  
65 W RAMAPO RD  
GARNERVILLE, NY 10923

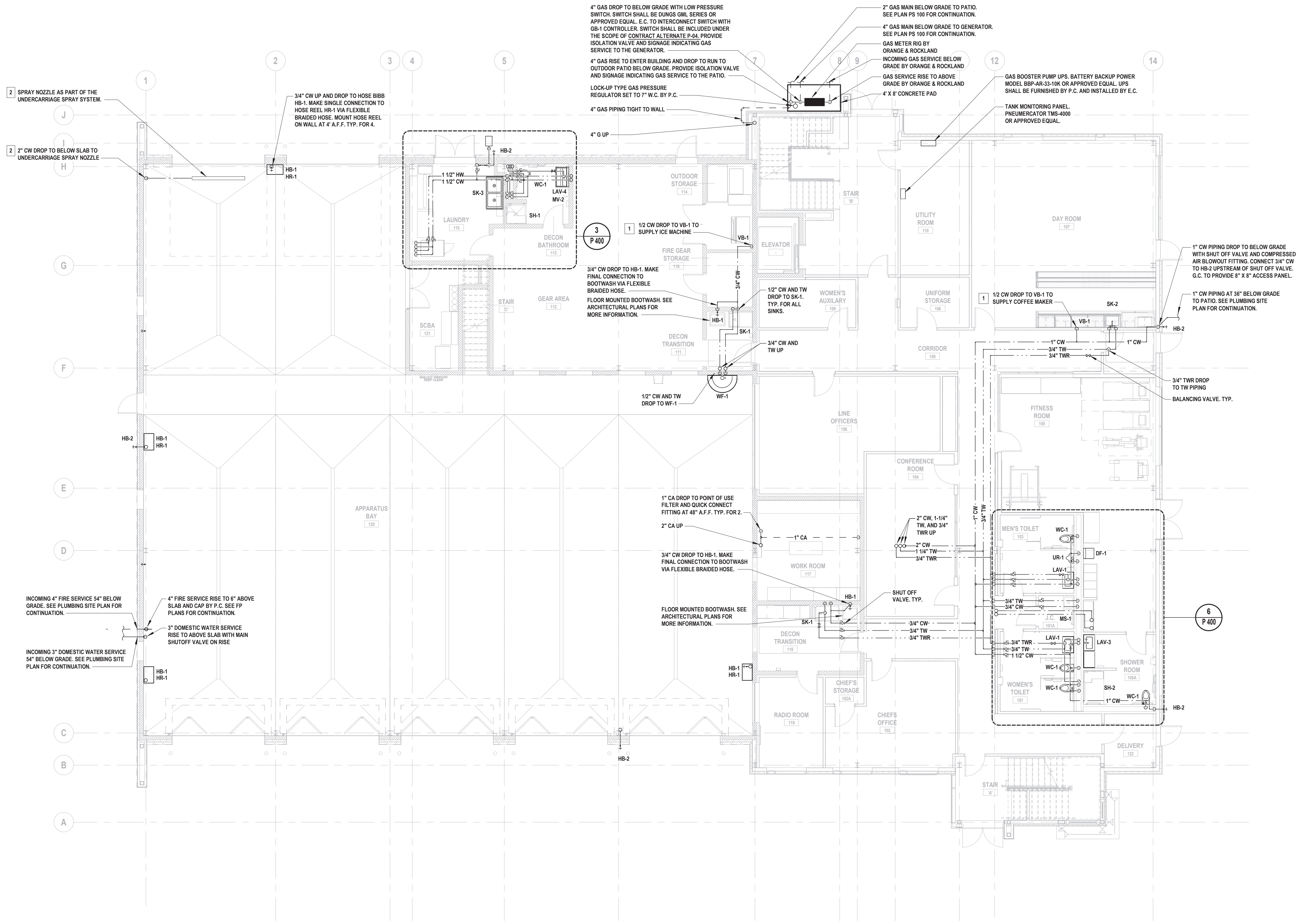
CONTRACT  
**CONTRACT P  
PLUMBING CONTRACT**

STATUS  
**FINAL BID DOCUMENT**

SHEET TITLE  
**ENLARGED OIL WATER  
SEPARATOR PLAN AND  
DETAILS**

DRAWING No.  
**PS 102.00**

X:\TRFD\Thiells Roseville Fire District\TRFD2302 New Fire Station\02-BIM\CADD\DWG\12 Plumbing\PS 102.00 - Enlarged Oil Water Separator Site Plan and Details.dwg Last Modified: Feb 27, 2025 - 2:04pm Plotted on Feb 25, 2025 - 4:56pm By mlduman



1 Domestic Water, Gas, and Compressed Air First Floor Plan  
SCALE: 1/8" = 1'-0"

X

KEYED PLUMBING NOTES

1

PROVIDE MANUFACTURER-RECOMMENDED POINT OF USE WATER FILTER, ASSE 1024 LISTED LEAD FREE DUAL CHECK VALVE, AND WATER HAMMER ARRESTOR ON CW DROP TO BEVERAGE DISPENSING EQUIPMENT.

2

UNDERCARRIAGE SPRAY SYSTEM SHALL INCLUDE SPRAY NOZZLE, 3 HP PUMP, AND 250 GALLON HOLDING TANK. SYSTEM SHALL BE MCHENRY MODEL WCU-35-0ME3 OR APPROVED EQUAL. SYSTEM AND ALL ASSOCIATED PIPING, VALVES, HOSE BIBBS, BACKFLOW PREVENTERS, MATERIALS, AND INSTALLATION COSTS SHALL BE INCLUDED UNDER THE SCOPE OF CONTRACT ALTERNATE P-01. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.

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Melville, NY 11747  
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NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:		

MARK	DATE	DESCRIPTION

JONATHAN R. MURATORE, P.E.

NY PROFESSIONAL ENGINEER L.I.C. No. 036440

DESIGNED BY: CRG

DRAWN BY: MPF/CRG

CHECKED BY: JRM

REVIEWED BY: JRM

PROJECT No: TRFD 2302

DATE: FEBRUARY 2025

SCALE: AS SHOWN

CLIENT

THIELLS  
ROSEVILLE FIRE  
DISTRICT

NEW 26-100 FIRE  
HEADQUARTERS

65 W RAMAPO ROAD  
GARNERVILLE, NY 10923

CONTRACT

CONTRACT P  
PLUMBING CONSTRUCTION

STATUS

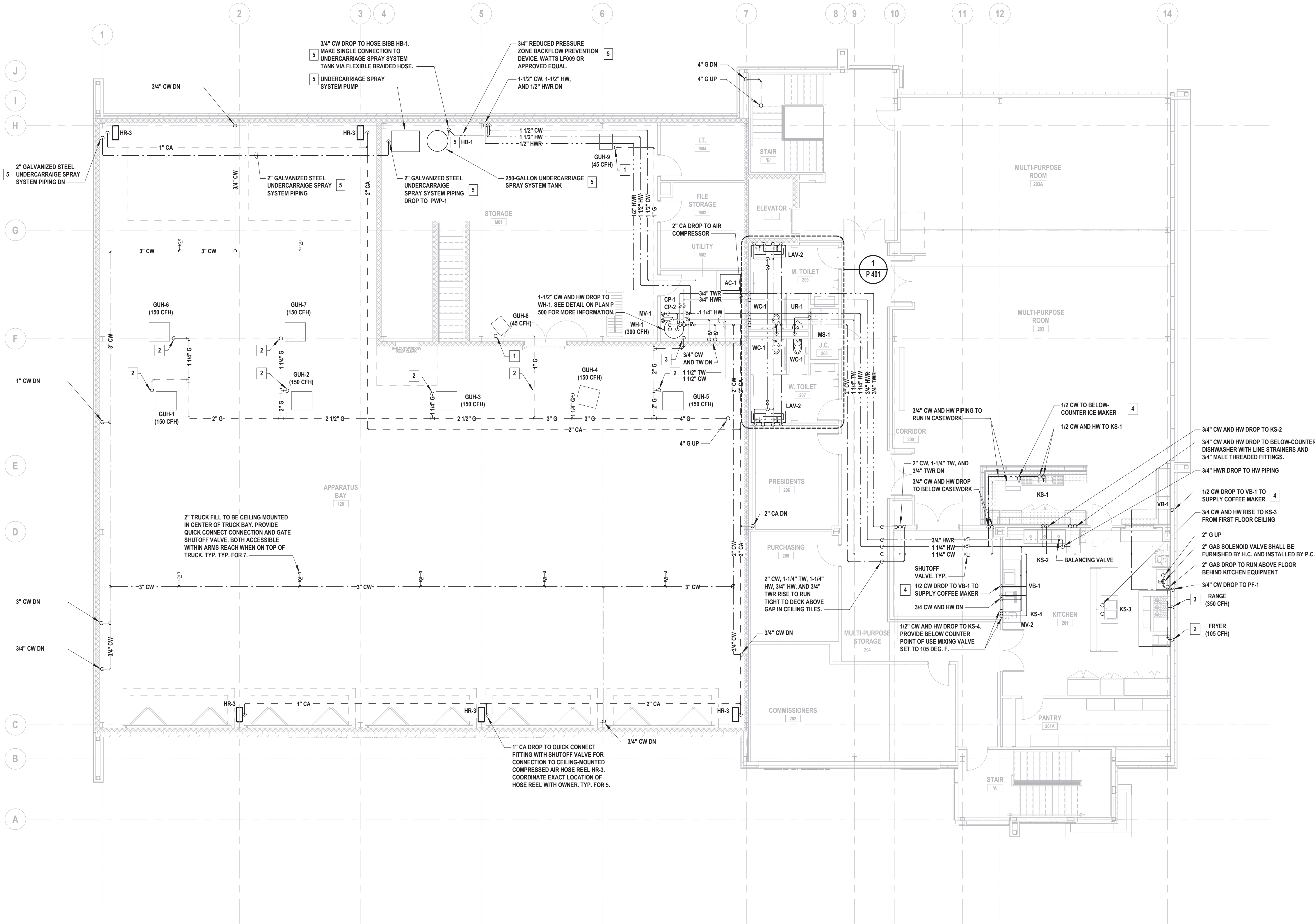
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SHEET TITLE

DOMESTIC WATER, GAS, AND  
COMPRESSED AIR FIRST FLOOR  
PLAN

DRAWING No.

P 120.00



1 Domestic Water, Gas, and Compressed Air Second Floor Plan  
SCALE: 1/8" = 1'-0"

KEYED PLUMBING NOTES

- 1" GAS PIPING TO GAS-FIRED EQUIPMENT. REDUCE PIPE SIZE AT CONNECTION POINT TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. FOR TYPICAL GAS CONNECTION, SEE DETAIL ON SHEET P 500.
- 1-1/4" GAS PIPING TO GAS-FIRED EQUIPMENT. REDUCE PIPE SIZE AT CONNECTION POINT TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. FOR KITCHEN EQUIPMENT, P.C. TO MAKE FINAL CONNECTION WITH FLEXIBLE GAS PIPE. FOR TYPICAL GAS CONNECTION, SEE DETAIL ON SHEET P 500.
- 2" GAS PIPING TO GAS-FIRED EQUIPMENT. REDUCE PIPE SIZE AT CONNECTION POINT TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. FOR KITCHEN EQUIPMENT, P.C. TO MAKE FINAL CONNECTION WITH FLEXIBLE GAS PIPE. FOR TYPICAL GAS CONNECTION, SEE DETAIL ON SHEET P 500.
- PROVIDE MANUFACTURER-RECOMMENDED POINT OF USE WATER FILTER, ASSE 1024 LISTED LEAD FREE DUAL CHECK VALVE, AND WATER HAMMER ARRESTOR ON CW DROP TO BEVERAGE DISPENSING EQUIPMENT.
- UNDERCARRIAGE SPRAY SYSTEM SHALL INCLUDE SPRAY NOZZLE, 3 HP PUMP, AND 250 GALLON HOLDING TANK. SYSTEM SHALL BE MCHENRY MODEL WCU-35-IME3 OR APPROVED EQUAL. SYSTEM AND ALL ASSOCIATED PIPING, VALVES, HOSE BIBBS, BACKFLOW PREVENTERS, MATERIALS, AND INSTALLATION COSTS SHALL BE INCLUDED UNDER THE SCOPE OF CONTRACT ALTERNATE P-01.

CONSULTANTS:

MARK	DATE	DESCRIPTION



JONATHAN R. MURATORE, P.E. NY PROFESSIONAL ENGINEER L.C. No. 036440 10/31/2027 Exp. Date			
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PROJECT No: TRFD 2302	DATE: FEBRUARY 2025	SCALE: AS SHOWN	

CLIENT

**THIELS  
ROSEVILLE FIRE  
DISTRICT**

**NEW 26-100 FIRE  
HEADQUARTERS**

**65 W RAMAPO ROAD  
GARNERVILLE, NY 10923**

CONTRACT

**CONTRACT P  
PLUMBING CONSTRUCTION**

STATUS

**FINAL BID DOCUMENT**

SHEET TITLE

**DOMESTIC WATER, GAS, AND  
COMPRESSED AIR SECOND  
FLOOR PLAN**

DRAWING No.

**P 121.00**

MARK	DATE	DESCRIPTION



JONATHAN R. MURATORE, P.E. NY PROFESSIONAL ENGINEER L.C. No. 036440			
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**THIELS  
ROSEVILLE FIRE  
DISTRICT**

**NEW 26-100 FIRE  
HEADQUARTERS**



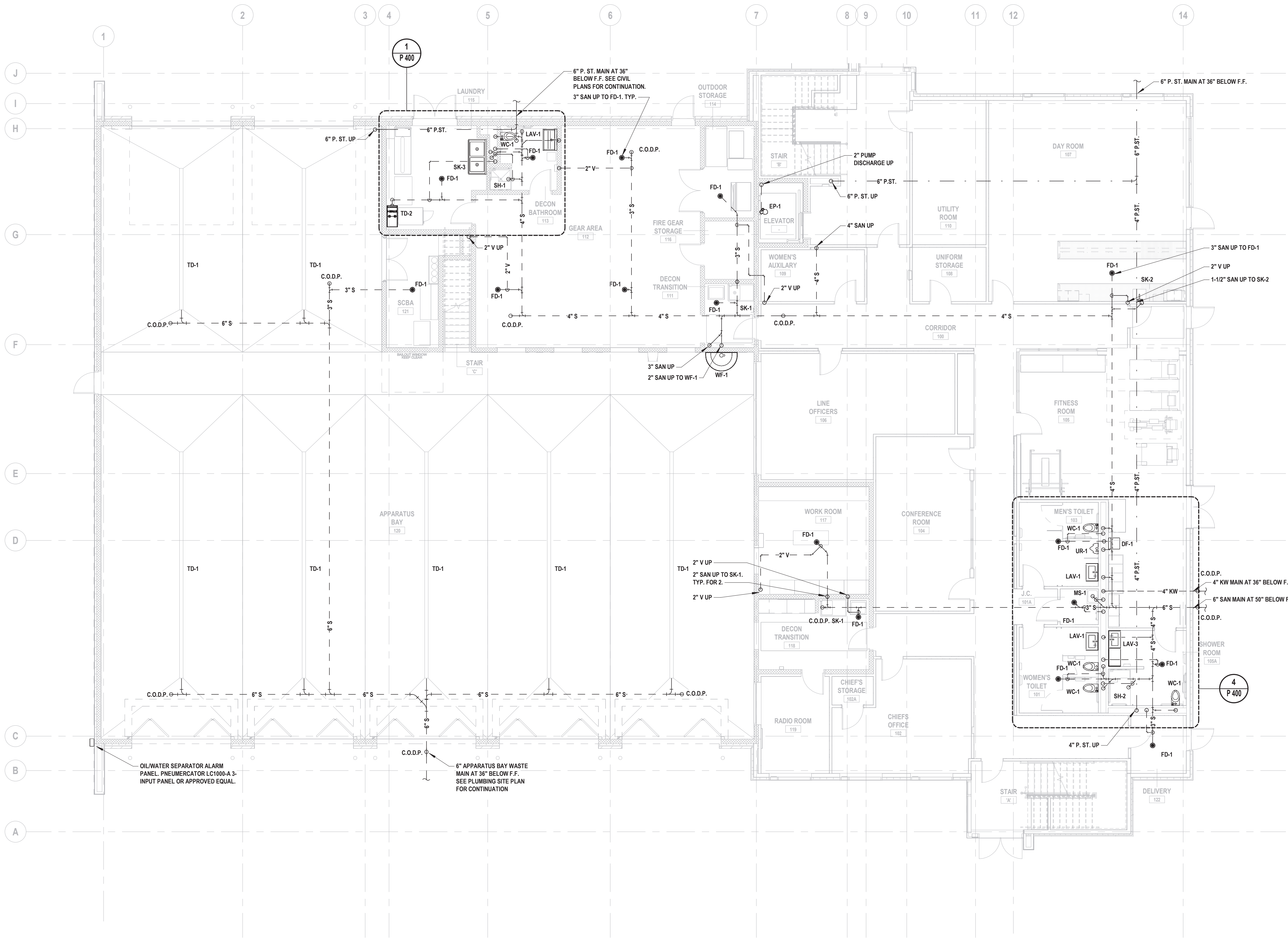
**65 W RAMAPO ROAD  
GARNERVILLE, NY 10923**

CONTRACT  
**CONTRACT P  
PLUMBING CONSTRUCTION**

STATUS  
**FINAL BID DOCUMENT**

SHEET TITLE  
**WASTE, VENT, AND STORM  
UNDERSLAB PLAN**

DRAWING No.  
**P 130.00**

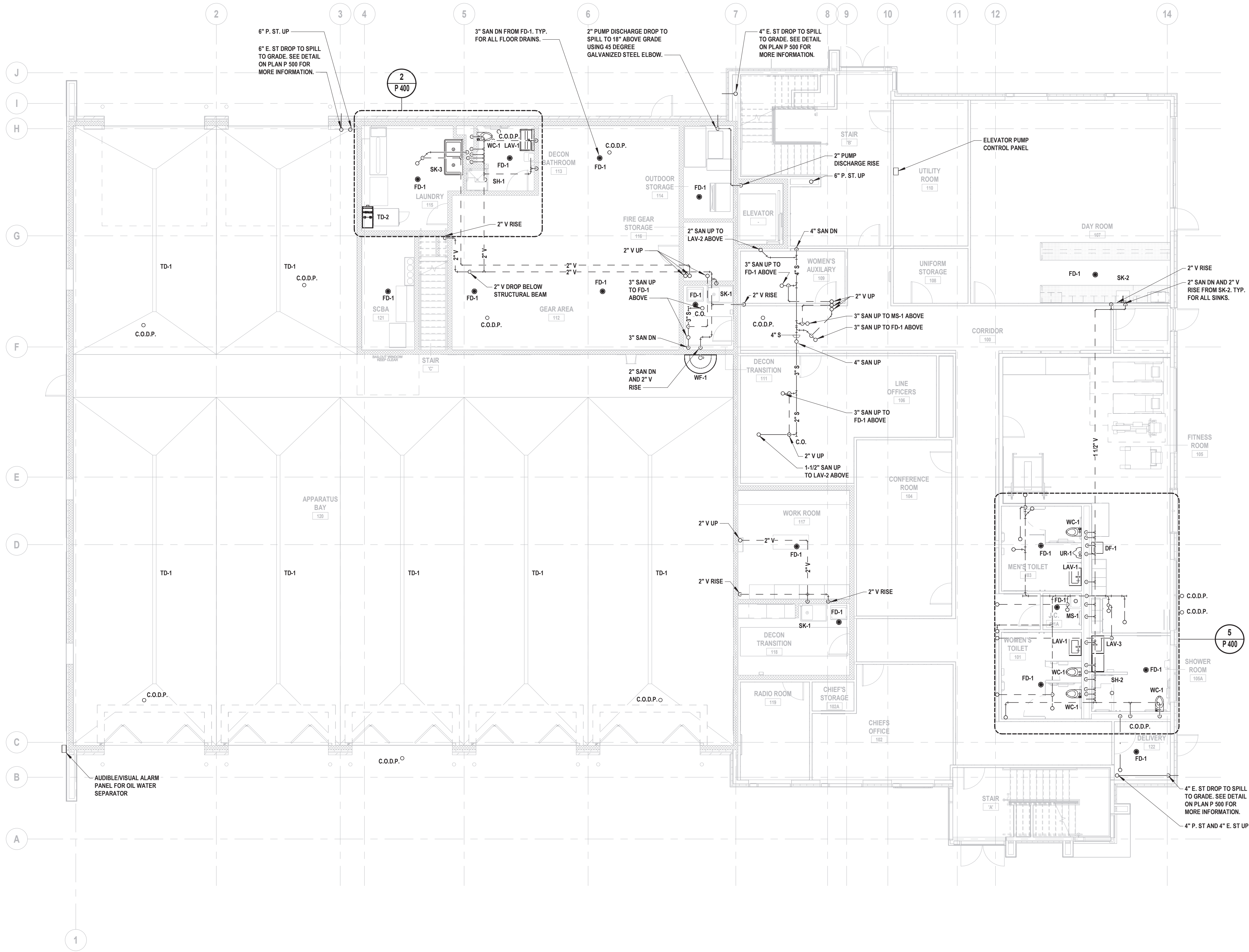


**1 Waste, Vent, and Storm Underslab Plan**

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

**GENERAL NOTES:**

- ALL PIPING BELOW SLAB FROM TRENCH DRAINS IN APPARATUS BAY SHALL BE DOUBLE-WALLED. PROVIDE LEAK DETECTION SENSOR AT LOW POINT OF SYSTEM. TIE LEAK SENSOR INTO OIL WATER SEPARATOR CONTROL PANEL.



1 Waste, Vent, and Storm First Floor Plan

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



CONSULTANTS:

MARK	DATE	DESCRIPTION



**JONATHAN R. MURATORE, P.E.**  
NY PROFESSIONAL ENGINEER L.I.C. No. 096440  
10/31/2027 Exp. Date

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**THIELLS  
ROSEVILLE FIRE  
DISTRICT**

**NEW 26-100 FIRE  
HEADQUARTERS**



**65 W RAMAPO ROAD  
GARNERVILLE, NY 10923**

CONTRACT

**CONTRACT P  
PLUMBING CONSTRUCTION**

STATUS

**FINAL BID DOCUMENT**

SHEET TITLE

**WASTE, VENT, AND STORM FIRST  
FLOOR PLAN**

DRAWING No.

**P 131.00**

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ROSEVILLE FIRE  
DISTRICT**

NEW 26-100 FIRE  
HEADQUARTERS



65 W RAMAPO ROAD  
GARNERVILLE, NY 10923

CONTRACT

**CONTRACT P  
PLUMBING CONSTRUCTION**

STATUS

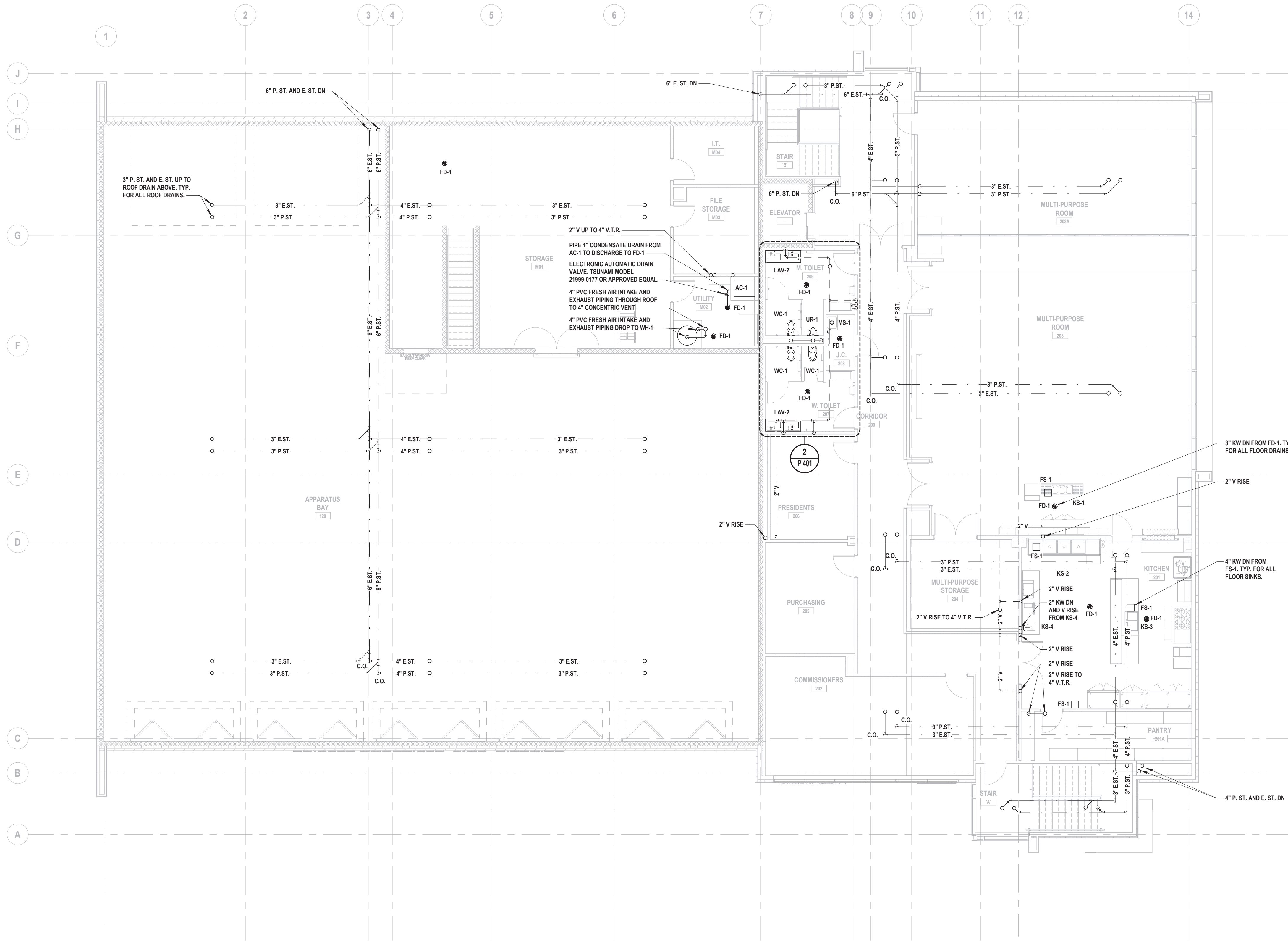
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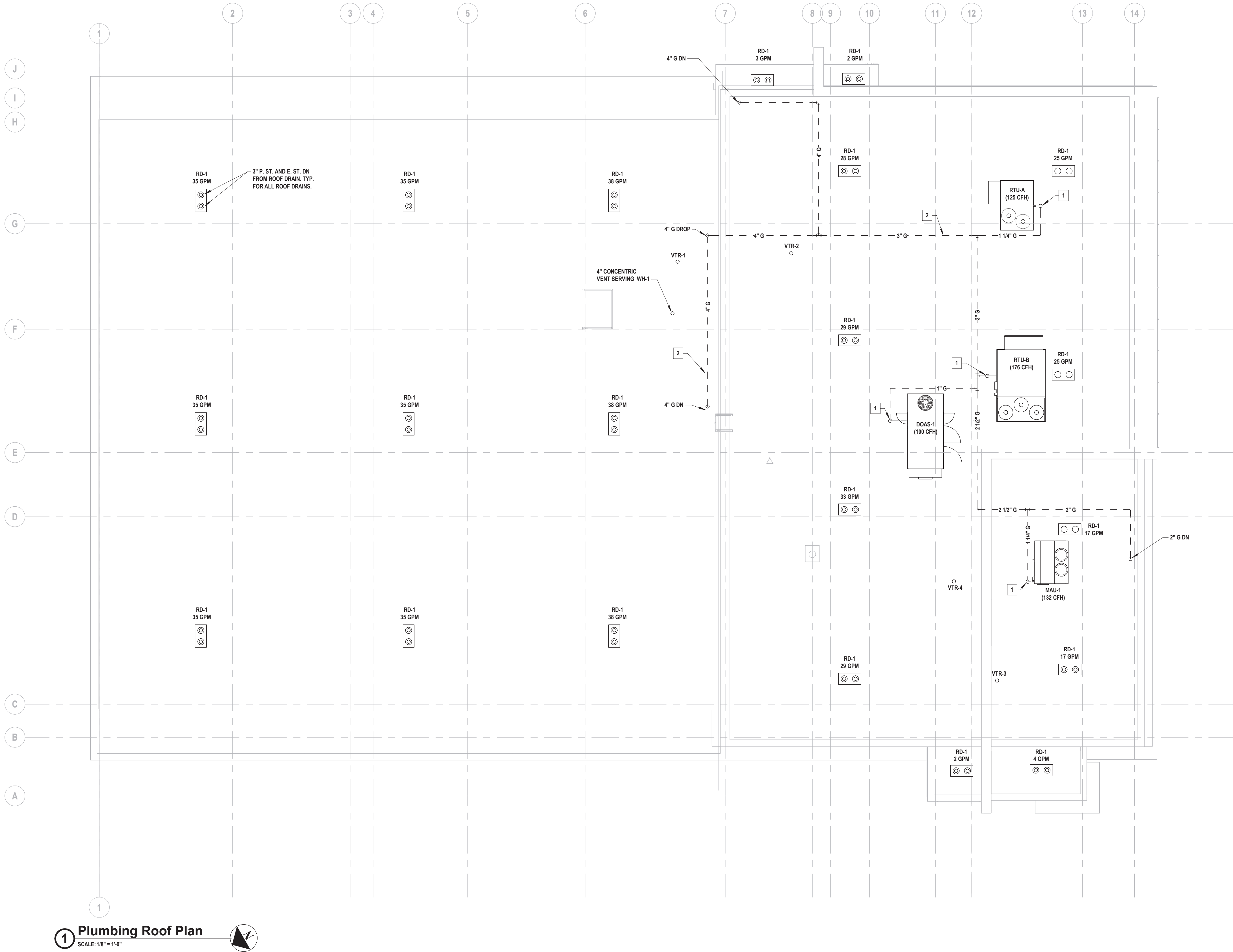
**WASTE, VENT, AND STORM  
SECOND FLOOR PLAN**

DRAWING No.

**P 132.00**



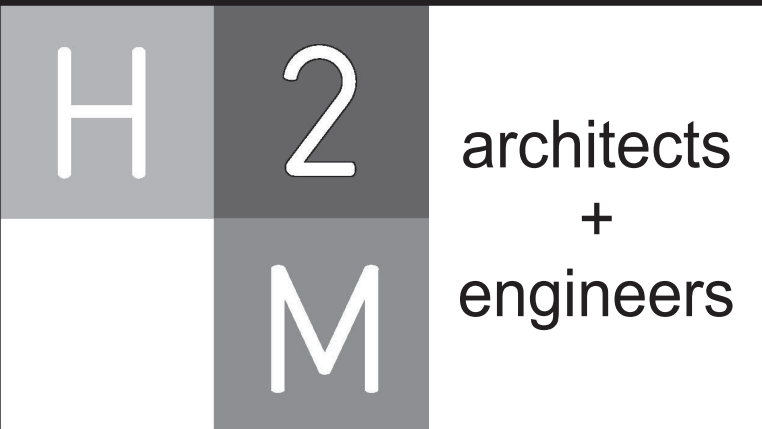
**1 Waste, Vent, and Storm Second Floor Plan**  
SCALE: 1/8" = 1'-0"



**1 Plumbing Roof Plan**  
SCALE: 1/8" = 1'-0"

**KEYED PLUMBING NOTES**

- 1** 1-1/4" GAS PIPING TO GAS-FIRED EQUIPMENT. REDUCE PIPE SIZE AT CONNECTION POINT TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. FOR TYPICAL GAS CONNECTION, SEE DETAIL ON SHEET P 500.
- 2** GAS PIPING SHALL BE SUPPORTED ON ROOF USING APPROVED PIPE SUPPORTS. SEE DETAIL ON SHEET P 500. TYPICAL FOR ALL NEW GAS PIPING ON ROOF.



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TRFD 2302	FEBRUARY 2025	AS SHOWN	

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ROSEVILLE FIRE  
DISTRICT**

**NEW 26-100 FIRE  
HEADQUARTERS**

**65 W RAMAPO ROAD  
GARNERVILLE, NY 10923**

CONTRACT

**CONTRACT P  
PLUMBING CONSTRUCTION**

STATUS

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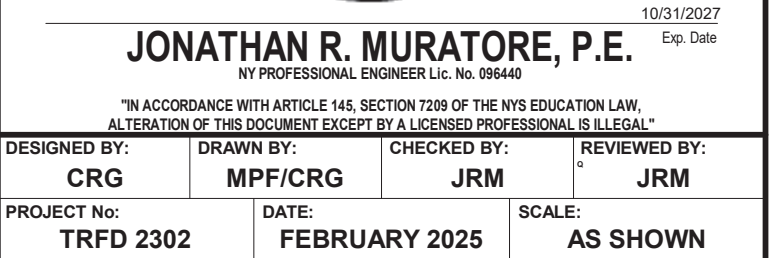
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**PLUMBING ROOF PLAN**

DRAWING No.

**P 140.00**

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DISTRICT**

**NEW 26-100 FIRE  
HEADQUARTERS**



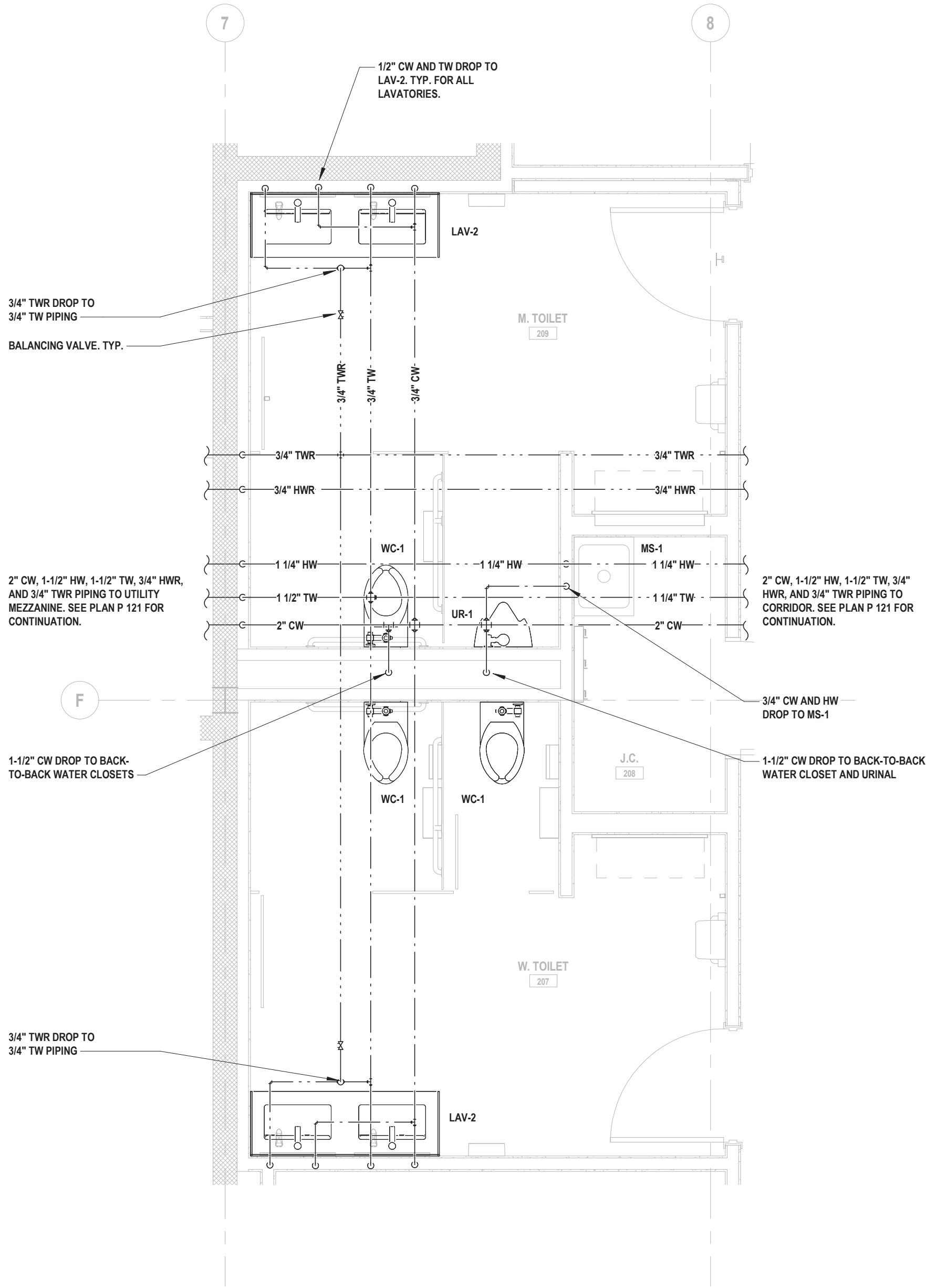
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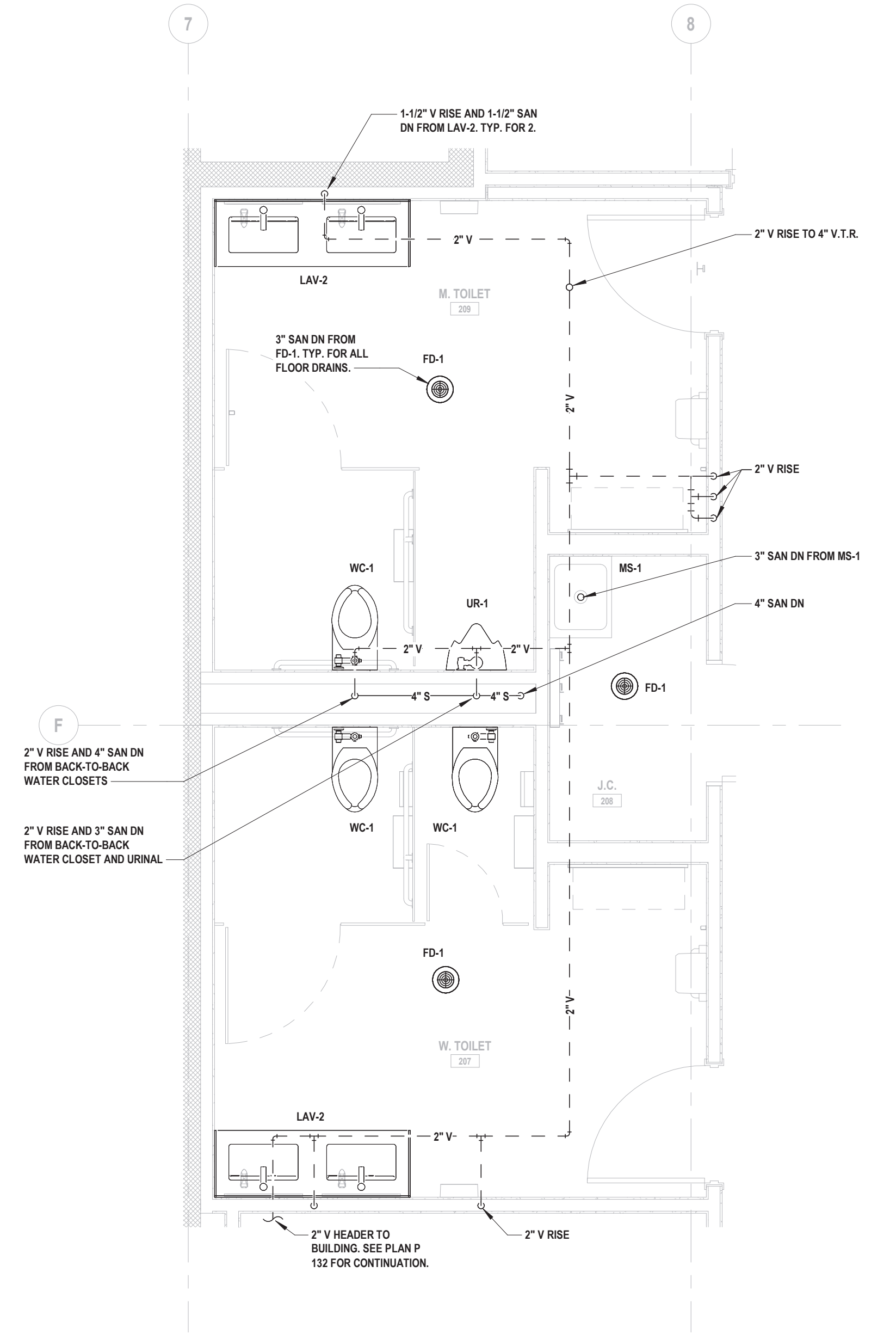
**PLUMBING ENLARGEMENT PLANS**  
**(1 OF 2)**

**P 400.00**

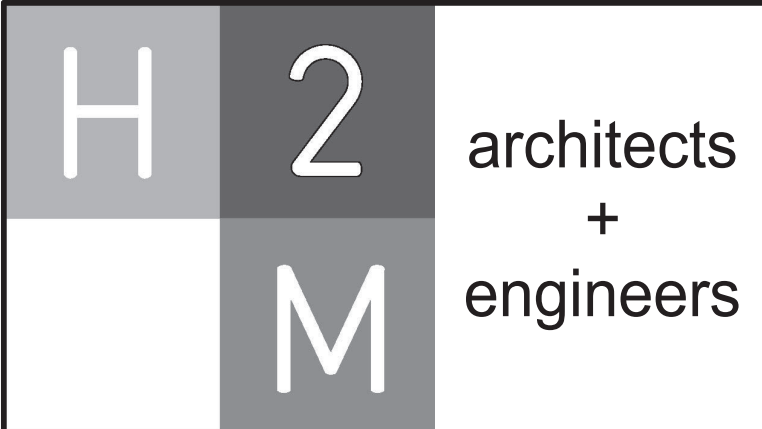




1 Enlarged Second Floor Bathrooms Domestic Water Plan  
SCALE: 3/8" = 1'-0"



2 Enlarged Second Floor Bathrooms Sanitary and Vent Plan  
SCALE: 3/8" = 1'-0"



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CONSULTANTS:		

MARK	DATE	DESCRIPTION

**JONATHAN R. MURATORE, P.E.**  
NY PROFESSIONAL ENGINEER L.I.C. No. 009440  
10/31/2027 Exp. Date

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PROJECT No: TRFD 2302	DATE: FEBRUARY 2025	SCALE: AS SHOWN	

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**NEW 26-100 FIRE  
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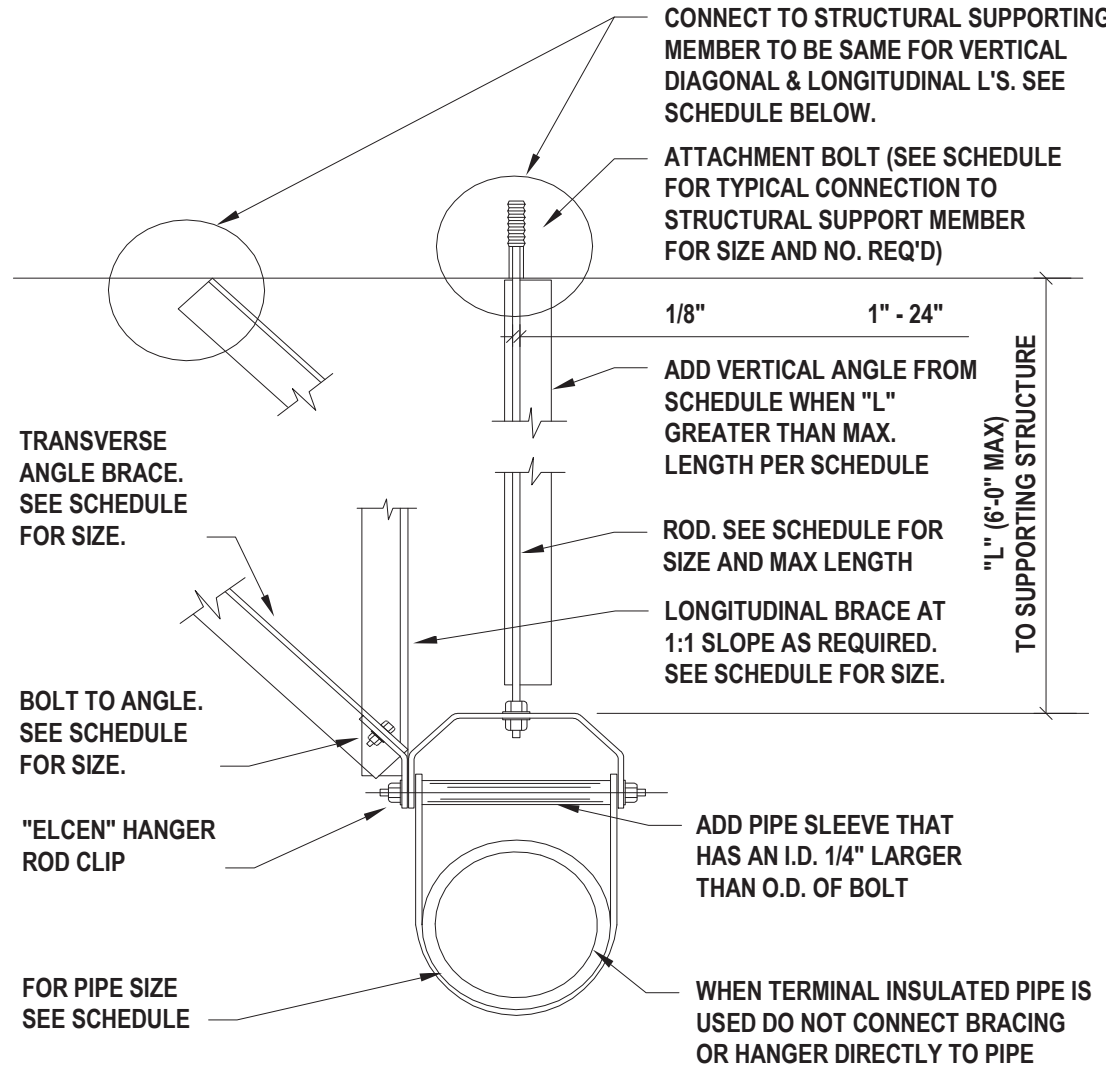
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**PLUMBING ENLARGEMENT PLANS  
(2 OF 2)**

DRAWING No.

**P 401.00**

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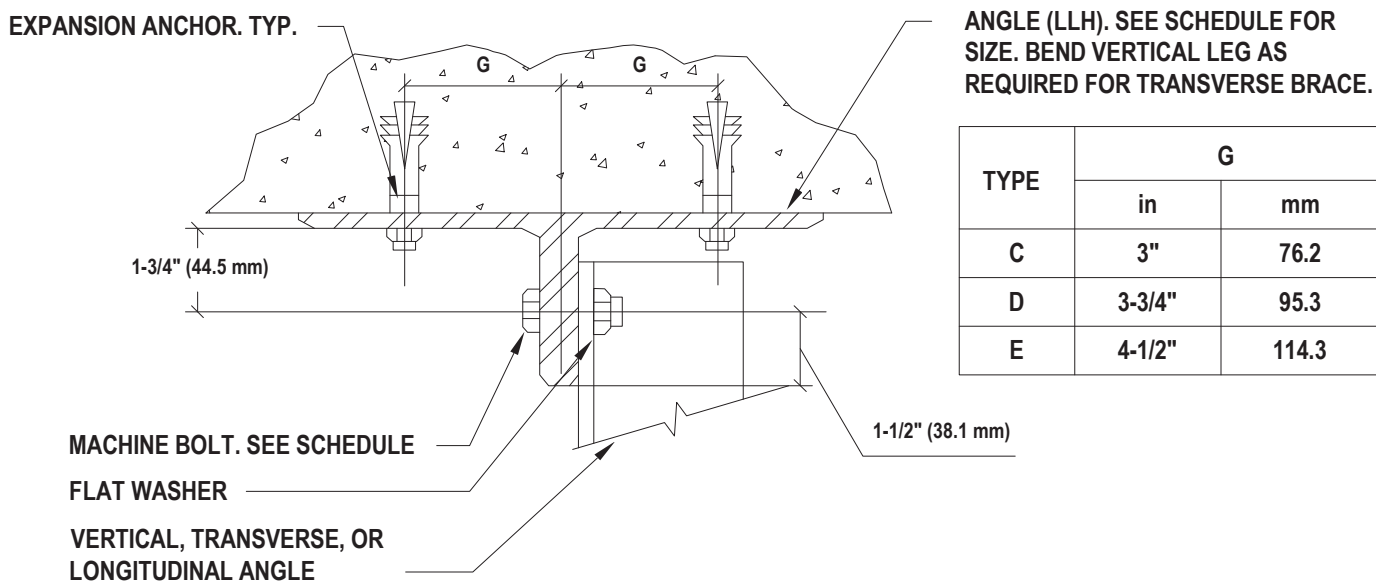


#### SCHEDULE FOR BRACING PIPES AND CONDUIT

PIPE SIZE (IN.)	MAXIMUM WEIGHT (LB/FT)	BRACE SPACING (FT)		VERTICAL HANGER ANGLES (IN.)	TRANSVERSE BRACE ANGLES (IN.)	LONGITUDINAL BRACE ANGLES (IN.)	BOLT SIZE (IN.)	CONNECTION TYPE TO STRUCTURAL MEMBER	ROD SIZE (IN.)	MAXIMUM LENGTH FOR RODS (IN.)
		TRANS. BRACING	LONG. BRACING							
2.5	7.9	40	80	L2 X 2 X 16GA	L3 X 3 X 16GA	L3 X 3 X 16GA	3/8	C	1/2	25
3	10.8	40	80	L2.5 X 2.5 X 16GA	L4 X 4 X 16GA	L4 X 4 X 16GA	3/8	C	1/2	25
4	16.3	40	80	L4 X 4 X 14GA	L4 X 4 X 14GA	L4 X 4 X 14GA	3/8	D	5/8	31.25
5	23.3	40	80	L4 X 4 X 14GA	L4 X 4 X 14GA	L4 X 4 X 14GA	1/2	D	3/4	37.5
6	31.5	40	40	L4 X 4 X 14GA	L3 X 3 X 12GA	L3 X 3 X 12GA	5/8	D	3/4	31.25
8	50.3	40	40	L4 X 4 X 14GA	L4 X 4 X 12GA	L4 X 4 X 12GA	3/4	D	7/8	43.75
10	74.7	20	20	L4 X 4 X 14GA	L3 X 3 X 12GA	L3 X 3 X 12GA	3/4	D	7/8	37.5

#### NOTES:

- SEE DETAIL 2 ON CURRENT SHEET FOR STRUCTURAL MEMBER CONNECTION TYPES.
- PROVIDE STANDARD CUT WASHERS BETWEEN ANGLE BRACES AND SECURING NUTS.



#### SCHEDULE FOR TYPICAL CONNECTIONS TO STRUCTURAL SUPPORTING MEMBERS

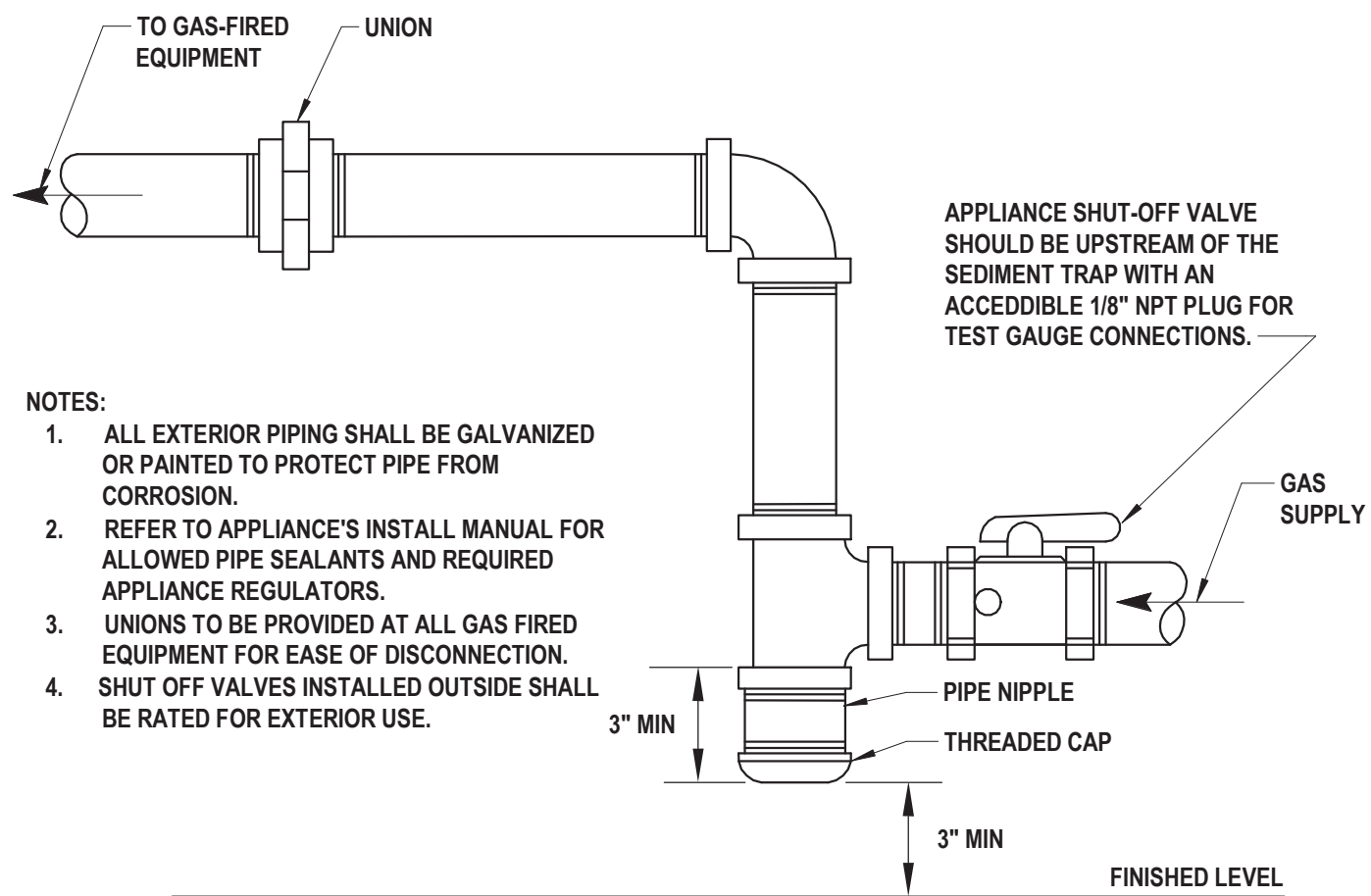
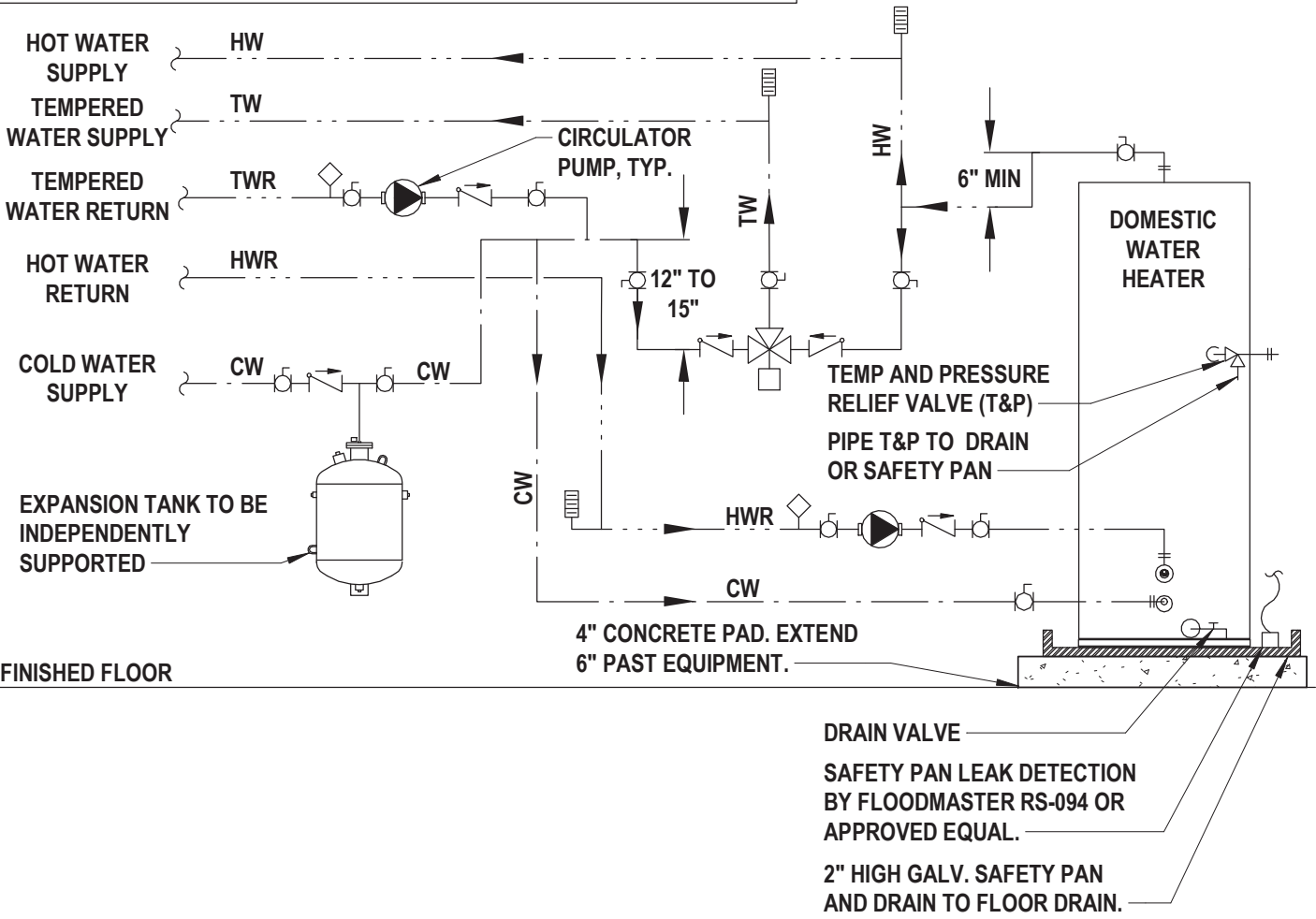
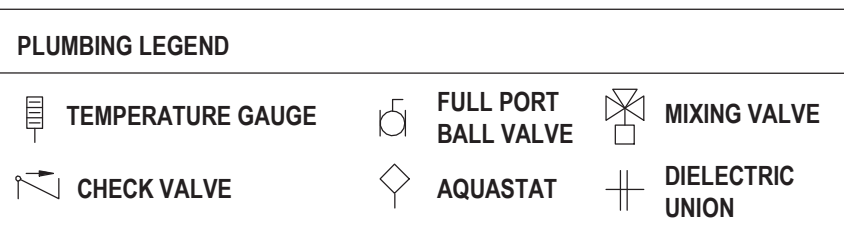
TYPE	MAXIMUM LOAD CAPACITY (LB)	EXPANSION ANCHORS TO CONCRETE (IN.)	MACHINE BOLT END OF BRACE (IN.)	SPREADER SIZE (IN.)	MACHINE BOLT AT WOOD (IN.)	HOLLOW CORE PLANK ROD (IN.)	ANGLE SUPPORTING STRUCTURAL MEMBER
C	1586	2-1/2	1/2	C5 X 6.7	3/4	3/8	2 - 4 X 3 X 3/8 X 0 FT, 4 IN. LLH
D	2020	2-5/8	1/2	C6 X 8.2	3/4	1/2	2 - 5 X 3 X 3/8 X 0 FT, 4 IN. LLH

#### 1 Pipe Hanger - Seismic

SCALE: N.T.S.

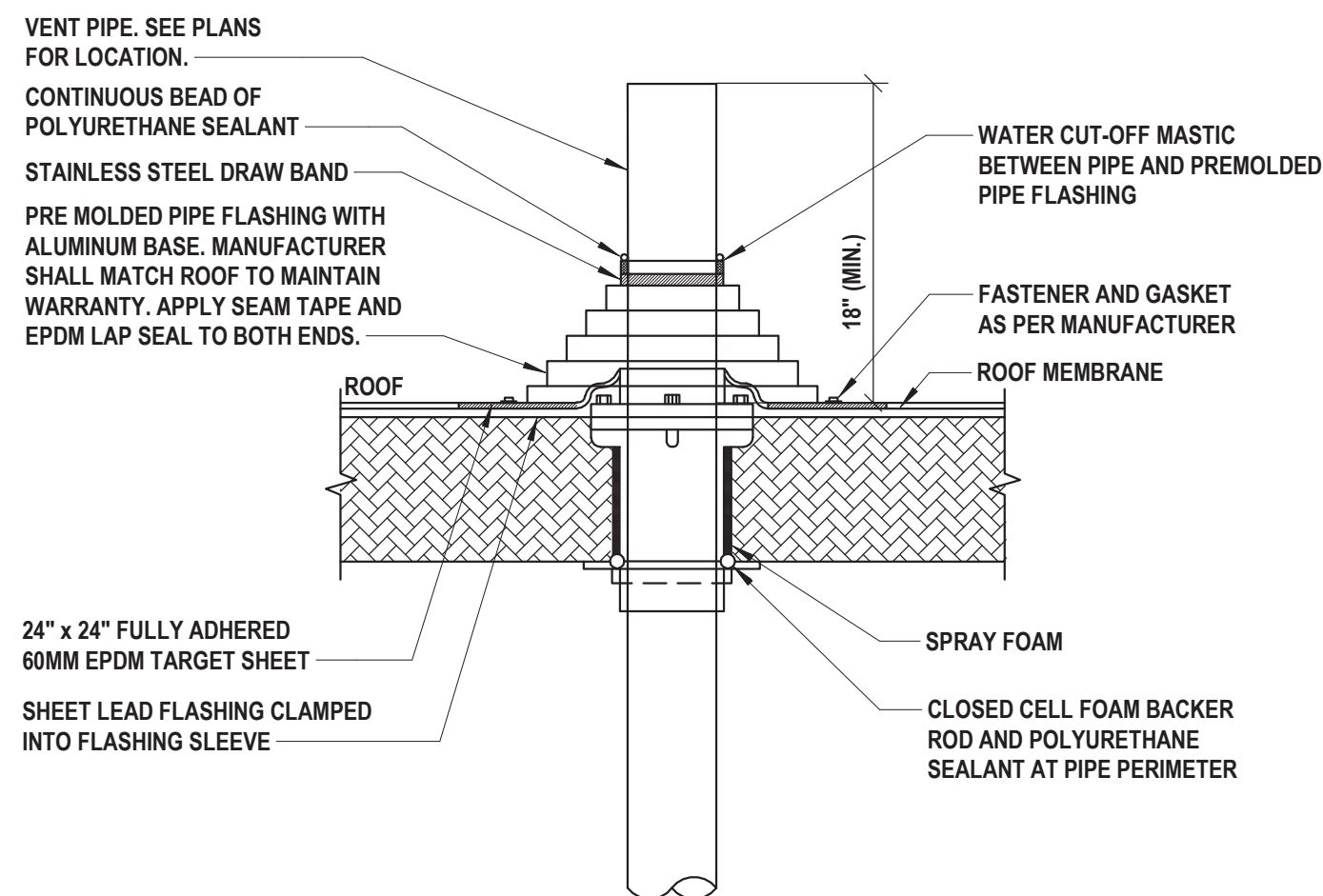
#### 2 Pipe Hanger - Seismic Part 2

SCALE: N.T.S.



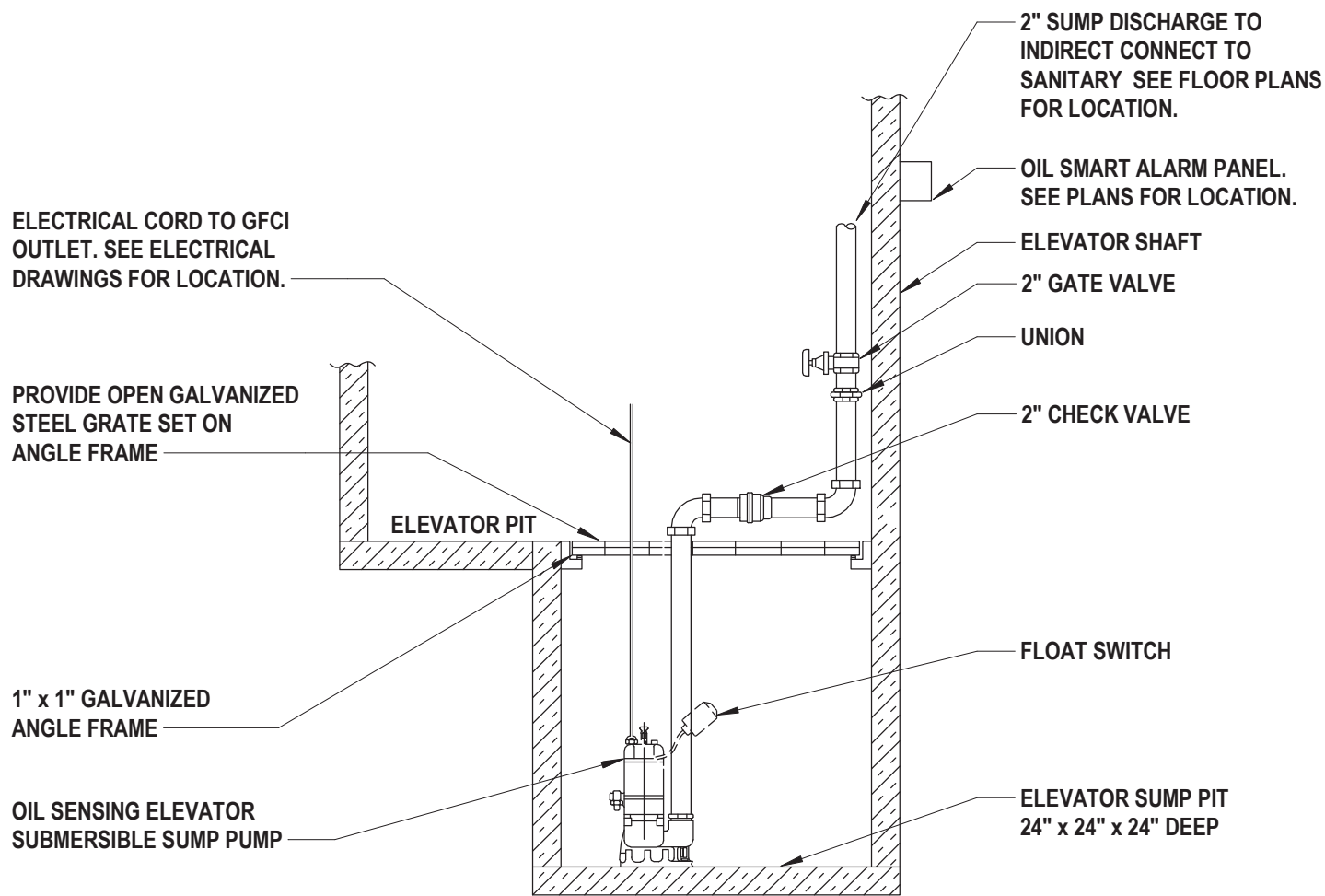
#### 3 Cleanouts

SCALE: N.T.S.



#### NOTES:

- ROOF VENT SHALL BE 10-FEET MINIMUM AWAY FROM AIR INTAKES OF THE BUILDING OR 3-FEET MINIMUM ABOVE SUCH OPENINGS.
- ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH ROOF MANUFACTURER TO MAINTAIN WARRANTIES



#### 7 Elevator Sump Pump

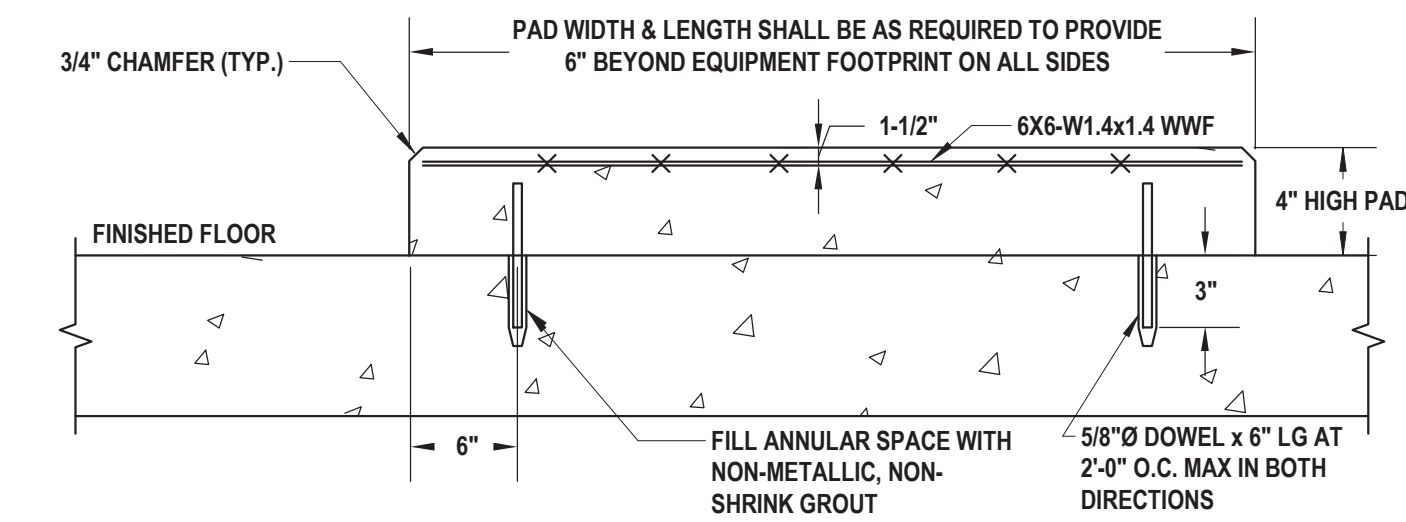
SCALE: N.T.S.

#### 4 Tank Water Heater Piping Schematic

SCALE: N.T.S.

#### 5 Gas Connection

SCALE: N.T.S.

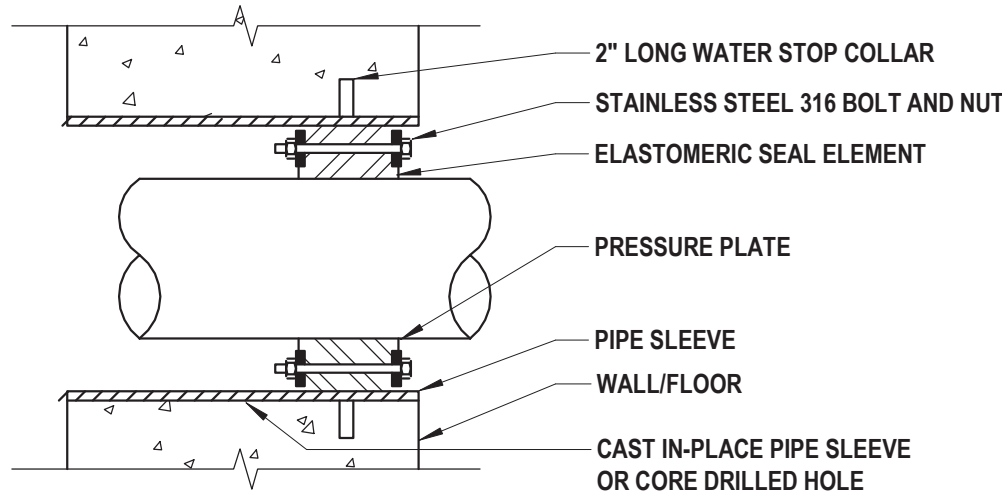


#### 8 Equipment Pad

SCALE: N.T.S.

#### 9 Link Seal Pipe Penetration

SCALE: N.T.S.



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CONSULTANTS:

MARK	DATE	DESCRIPTION



JONATHAN R. MURATORE, P.E.  
NY PROFESSIONAL ENGINEER L.I.C. No. 096440  
10/31/2027 Exp. Date  
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PROJECT No: TRFD 2302 DATE: FEBRUARY 2025 SCALE: AS SHOWN

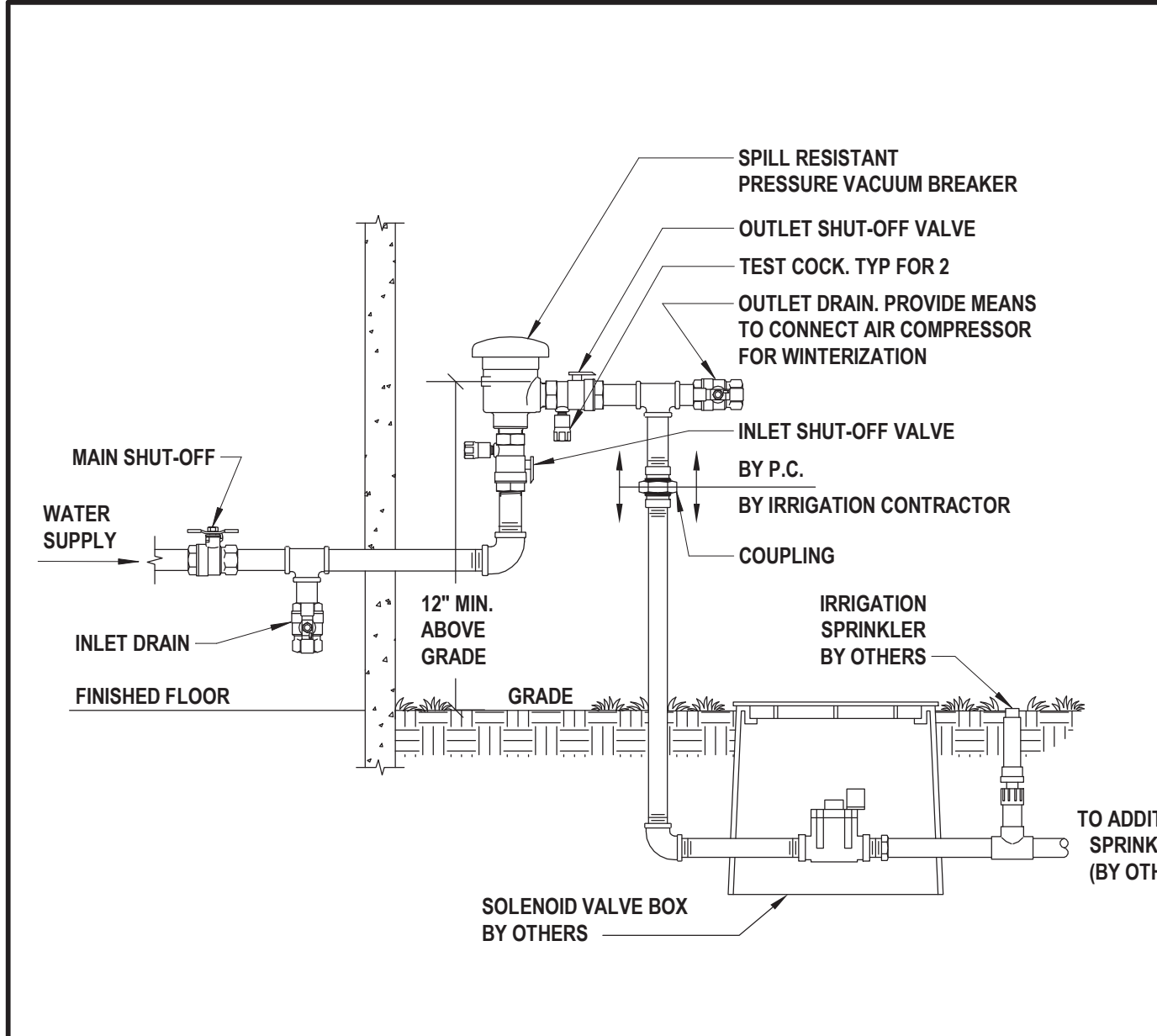
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**NEW 26-100 FIRE  
HEADQUARTERS**  
**THIELS  
26  
FD**  
**65 W RAMAPO ROAD  
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**CONTRACT P  
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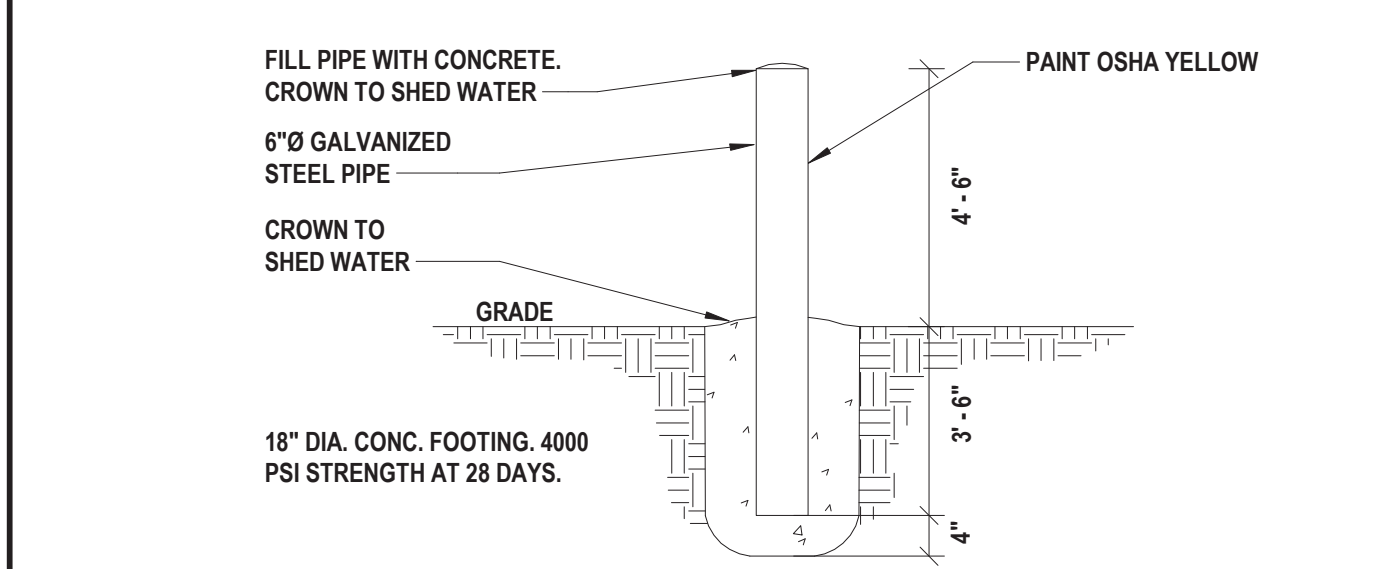
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**PLUMBING DETAILS (1 OF 2)**

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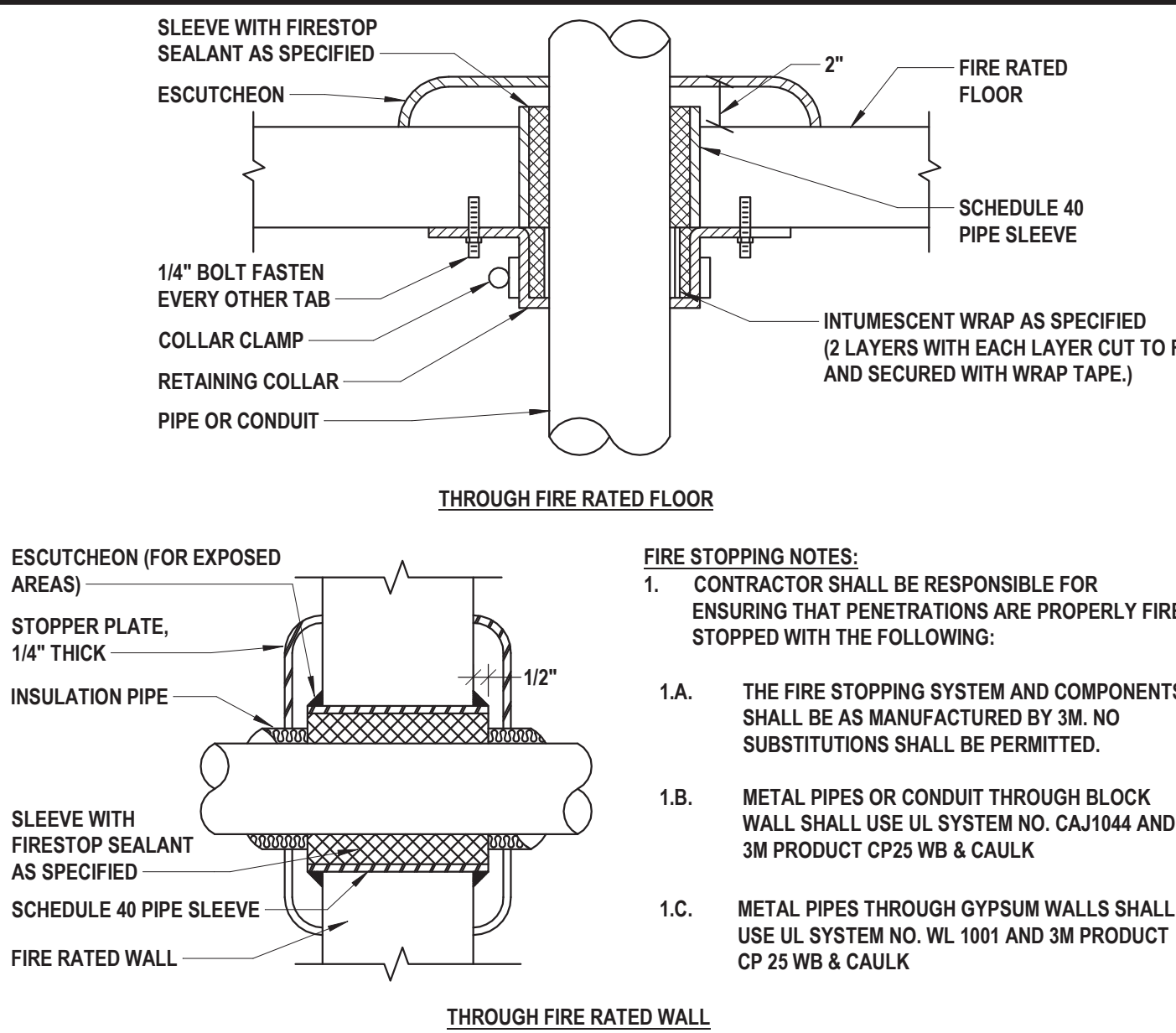
1 Lawn Irrigation Supply  
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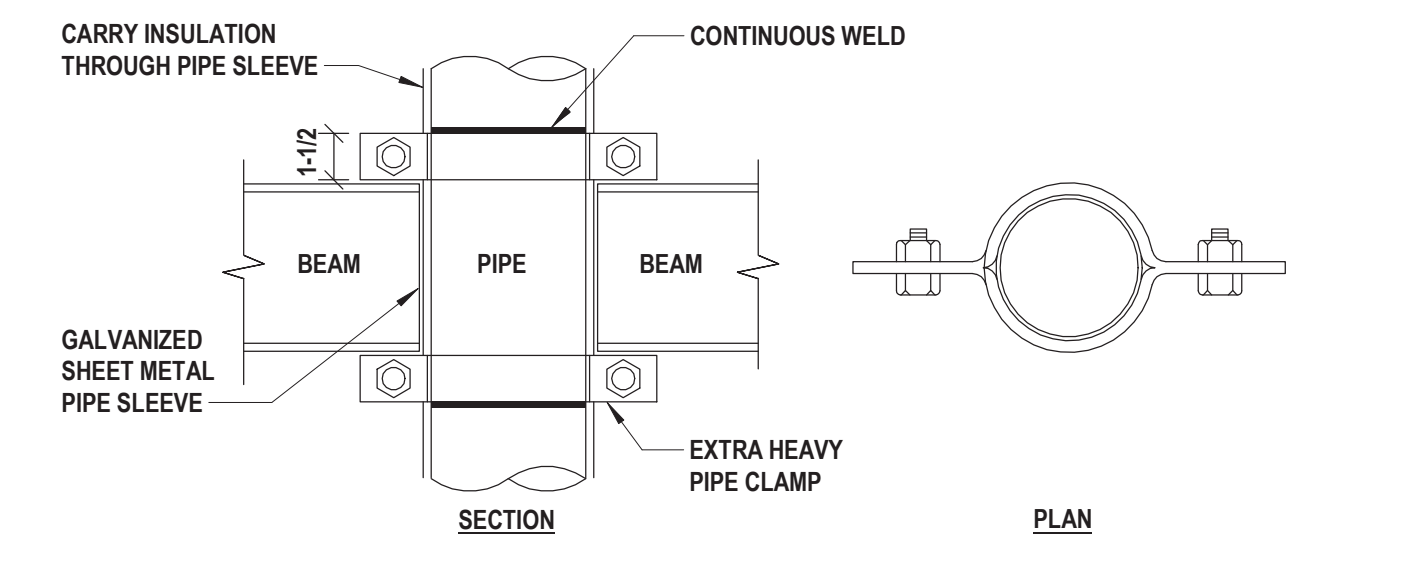
5 Bollard  
SCALE: N.T.S.

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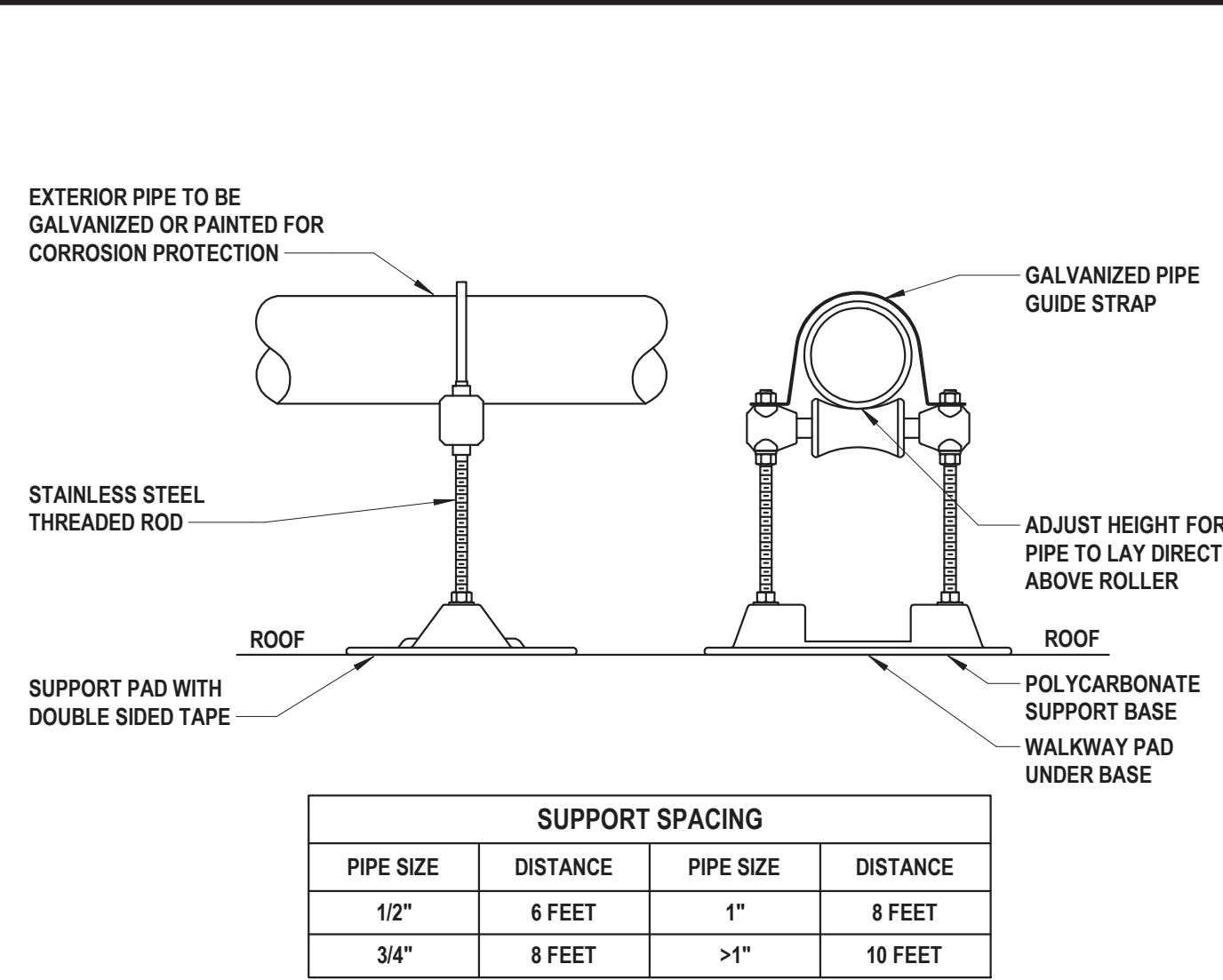
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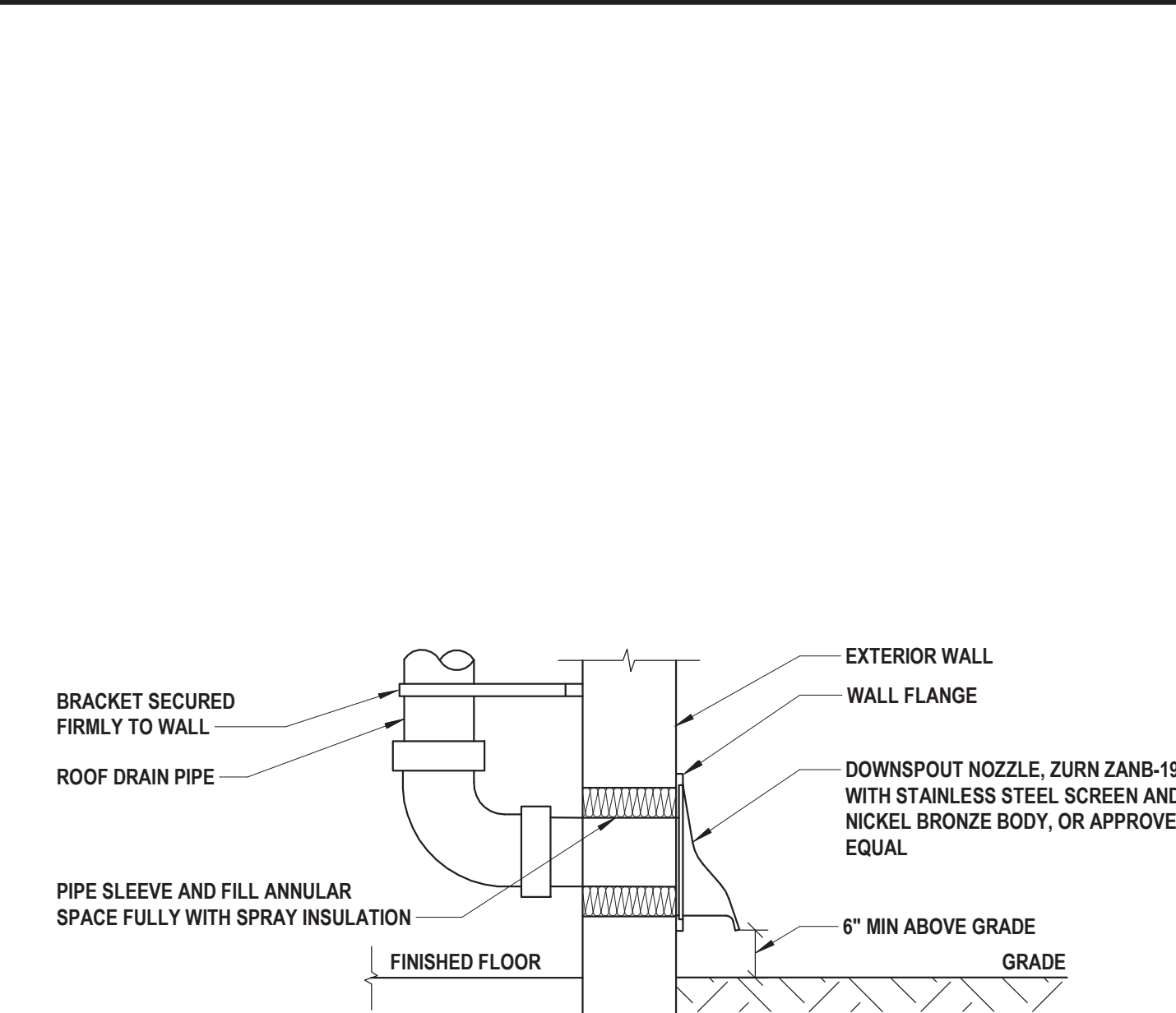
2 Pipe Penetration Through Rated Construction  
SCALE: N.T.S.



6 Typical Riser Anchor  
SCALE: N.T.S.



3 Roof Pipe Support  
SCALE: N.T.S.



4 Storm Overflow Drain Outlet  
SCALE: N.T.S.

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CONSULTANTS:		

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**NEW 26-100 FIRE  
HEADQUARTERS**

**65 W RAMAPO ROAD  
GARNERVILLE, NY 10923**

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**CONTRACT P  
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**PLUMBING DETAILS (2 OF 2)**

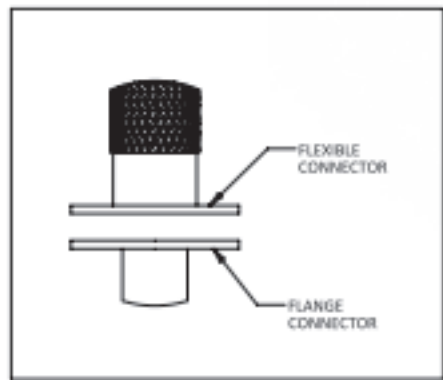
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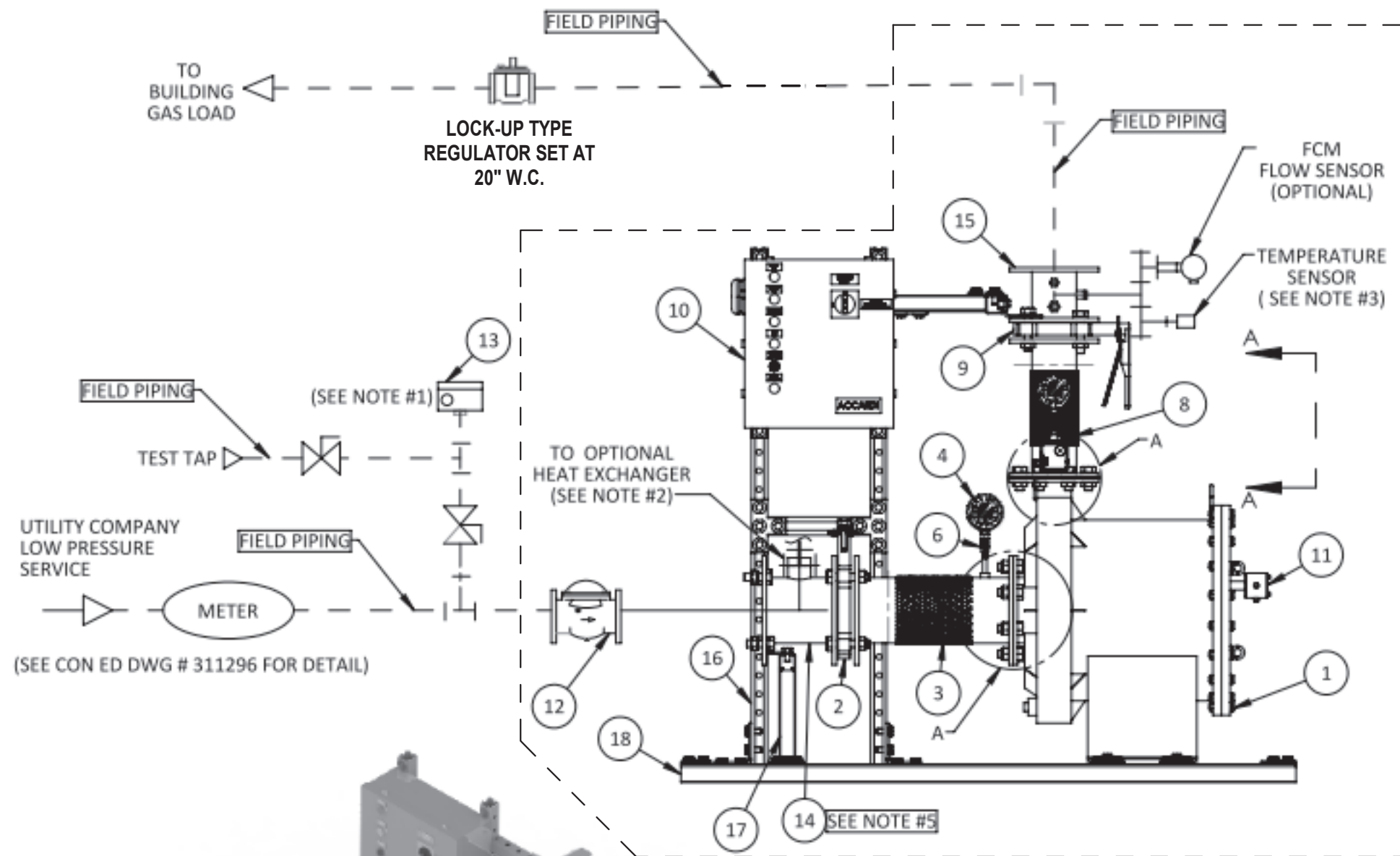
SEE NOTE #1  
SEE NOTE #5

Diagram of the rear of the machine showing the location of the rear door, rear door latch, and rear door handle.

ELEVATION VIEW A-A

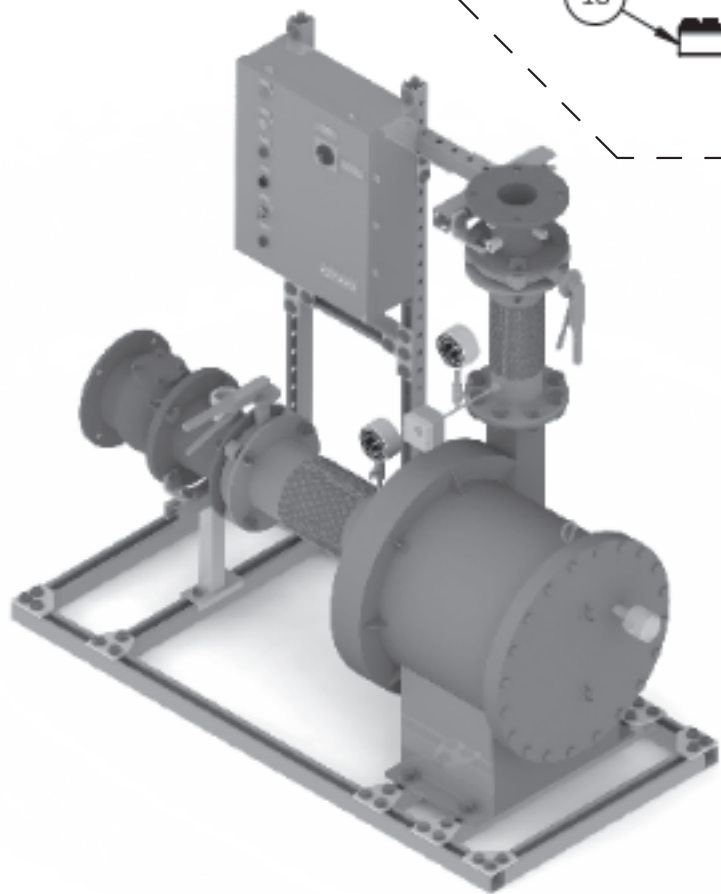


DETAIL A



NOTES

- (1) INLET LOW GAS PRESSURE SWITCH SHIPPED LOOSE FOR FIELD INSTALLATION BY OTHERS IN ACCORDANCE WITH CON EDISON SPECIFICATION G-2040-9
- (2) SEE DRAWING DB308 FOR CONNECTION DETAIL FOR THE OPTIONAL HEAT EXCHANGER MODULE
- (3) USED WITH HEAT EXCHANGER OPTION ONLY
- (4) FINAL DIMENSIONS MAY VARY DEPENDING ON COMPONENT SELECTION AND ORIENTATION
- (5) TEE CONNECTION FOR OPTIONAL HEAT EXCHANGER



\* NOT TO SCALE

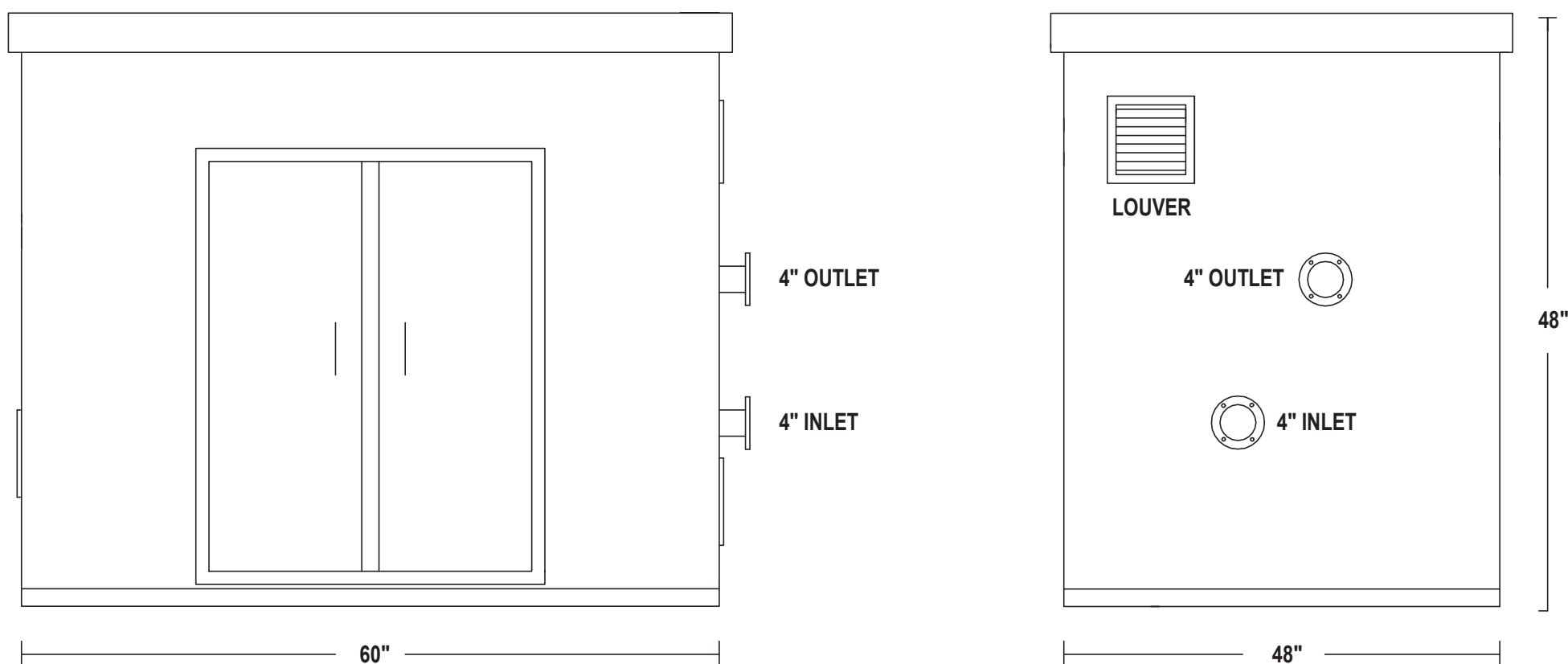
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ALL EQUIPMENT WITHIN DASHED  
BOUNDARY SHALL BE  
INSTALLED WITHIN PUMP  
ENCLOSURE

# 1 Gas Booster Pump Basis of Design

**NOTES:**

1. ABOVE REFERENCED PLAN IS THE BASIS OF DESIGN FOR THE GAS BOOSTER PUMP SYSTEM. CONTRACTOR SHALL PROVIDE ABOVE REFERENCED GAS BOOSTER SYSTEM BY ACCARDI COMPANIES OR APPROVED EQUAL.
2. GAS BOOSTER PUMP AND ASSOCIATED PIPING, FITTINGS, VALVES, SUPPORTS, ENCLOSURE, AND MATERIALS SHALL BE INCLUDED UNDER CONTRACT ALTERNATE P-04.



## 2 Gas Booster Pump Enclosure

SCALE: N.T.S.

2 SCALE: N.T.S.

- NOTES:
1. GAS BOOSTER PUMP ENCLOSURE SHALL BE PAINTED STEEL WITH LOCKABLE DOOR AND SIDE LOUVERS.  
  
ENCLOSURE SHALL BE OF THE SAME MANUFACTURER AS THE GAS BOOSTER SYSTEM.
  3. GAS BOOSTER PUMP ENCLOSURE SHALL BE INCLUDED UNDER THE SCOPE OF CONTRACT ALTERNATE P-04

architects  
+  
engineers

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**CONSULTANTS:**

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## NEW 26-100 FIRE HEADQUARTERS



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## GAS BOOSTER PUMP DETAILS

DRAWING No.

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PLUMBING FIXTURE SCHEDULE

Fixture Tag	Description	Make	Model	Basis of Design				Minimum Connection Sizes						Vent	Specification	Remarks
				Make	Model	Operation	Max Flow	Cold Water Size	WFU	Hot Water Size	WFU	Drain Size	DFU			
LAV-1 (HC)	LAVATORY WASHSTATION - WALL MOUNT - ADA COMPLIANT - SINGLE BOWL	BRADLEY	LD-3010	BRADLEY	S53-3300	SENSOR	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: WALL MOUNTED WASHSTATION WITH DECK, INTEGRAL SINGLE BOWL, BACKSPASH, FRONT APRON, FAUCET, AND SOAP DISPENSER. BRADLEY OMNIDECK OR APPROVED EQUAL. DECK SHALL BE 30"L X 22"D AND SHALL HAVE A TERREON SOLID SURFACE WITH INTEGRAL RECTANGULAR BOWL. BOWL SHALL BE BRADLEY MODEL WB-TR1 UNDERMOUNT TYPE IN ALPINE WHITE FINISH OR APPROVED EQUAL. SOAP DISPENSER SHALL BE BRADLEY MODEL 6-3300 WITH AC POWER ADAPTER OR APPROVED EQUAL. PROVIDE 3" SIDE SPLASH ON "WALL SIDE" AND 3" SIDE APRON WITH GUSSET ON "OPEN SIDE" OF WASHSTATION AT ALL CORNER INSTALLATIONS. PROVIDE THE FOLLOWING ADDITIONAL OPTIONS AT EACH WASHSTATION: "EASE EDGE" EDGE STYLE, CENTER FAUCET HOLE WITH SOAP...  FAUCET: DECK MOUNTED, ADA COMPLIANT, SENSOR ACTIVATION WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING ASSEMBLY. PROVIDE BRADLEY MODEL VA13-029 AC ADAPTER. COMPLIES WITH ASME A112.18.1 AND NSF 372.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. HOT WATER SHALL NOT EXCEED 105°F. PROVIDE DECK-MOUNTED SOAP DISPENSER WITH SENSOR ACTIVATION, TOP FILL, BRADLEY MODEL 6-3300 OR APPROVED EQUAL WITH BRADLEY MODEL A14-029 AC ADAPTER. INSULATE ALL EXPOSED DRAIN AND SUPPLY PIPING WITH TRUBRO LAVGUARD.
LAV-2 (HC)	LAVATORY WASHSTATION - WALL MOUNT - ADA COMPLIANT - DOUBLE BOWL	BRADLEY	LD-3010	BRADLEY	S53-3300	SENSOR	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: WALL MOUNTED WASHSTATION WITH DECK, INTEGRAL SINGLE BOWL, BACKSPASH, FRONT APRON, FAUCET, AND SOAP DISPENSER. BRADLEY OMNIDECK OR APPROVED EQUAL. DECK SHALL BE 30"L X 22"D AND SHALL HAVE A TERREON SOLID SURFACE WITH INTEGRAL RECTANGULAR BOWL. BOWL SHALL BE BRADLEY MODEL WB-TR1 UNDERMOUNT TYPE IN ALPINE WHITE FINISH OR APPROVED EQUAL. SOAP DISPENSER SHALL BE BRADLEY MODEL 6-3300 WITH AC POWER ADAPTER OR APPROVED EQUAL. PROVIDE 3" SIDE SPLASH ON "WALL SIDE" AND 3" SIDE APRON WITH GUSSET ON "OPEN SIDE" OF WASHSTATION AT ALL CORNER INSTALLATIONS. PROVIDE THE FOLLOWING ADDITIONAL OPTIONS AT EACH WASHSTATION: "EASE EDGE" EDGE STYLE, CENTER FAUCET HOLE WITH SOAP...  FAUCET: DECK MOUNTED, ADA COMPLIANT, SENSOR ACTIVATION WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING ASSEMBLY. PROVIDE BRADLEY MODEL A13-029 AC ADAPTER. COMPLIES WITH ASME A112.18.1 AND NSF 372.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. HOT WATER SHALL NOT EXCEED 105°F. PROVIDE DECK-MOUNTED SOAP DISPENSER AT EACH FAUCET WITH SENSOR ACTIVATION, TOP FILL, BRADLEY MODEL 6-3300 OR APPROVED EQUAL WITH BRADLEY MODEL A14-029 AC ADAPTER. INSULATE ALL EXPOSED DRAIN AND SUPPLY PIPING WITH TRUBRO LAVGUARD.
LAV-3 (HC)	LAVATORY WASHSTATION - WALL MOUNT - ADA COMPLIANT - SINGLE BOWL - CUSTOM DECK	BRADLEY	LD-3010	BRADLEY	S53-3300	SENSOR	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: WALL MOUNTED WASHSTATION WITH DECK, INTEGRAL SINGLE BOWL, BACKSPASH, FRONT APRON, FAUCET, AND SOAP DISPENSER. BRADLEY OMNIDECK OR APPROVED EQUAL. DECK SHALL BE 30"L X 22"D AND SHALL HAVE A TERREON SOLID SURFACE WITH INTEGRAL RECTANGULAR BOWL. BOWL SHALL BE BRADLEY MODEL WB-TR1 UNDERMOUNT TYPE IN ALPINE WHITE FINISH OR APPROVED EQUAL. SOAP DISPENSER SHALL BE BRADLEY MODEL 6-3300 WITH AC POWER ADAPTER OR APPROVED EQUAL. PROVIDE 3" SIDE SPLASH ON "WALL SIDE" AND 3" SIDE APRON WITH GUSSET ON "OPEN SIDE" OF WASHSTATION AT ALL CORNER INSTALLATIONS. PROVIDE THE FOLLOWING ADDITIONAL OPTIONS AT EACH WASHSTATION: "EASE EDGE" EDGE STYLE, CENTER FAUCET HOLE WITH SOAP...  FAUCET: DECK MOUNTED, ADA COMPLIANT, SENSOR ACTIVATION WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING ASSEMBLY. PROVIDE BRADLEY MODEL A13-029 AC ADAPTER. COMPLIES WITH ASME A112.18.1 AND NSF 372.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. HOT WATER SHALL NOT EXCEED 105°F. PROVIDE DECK-MOUNTED SOAP DISPENSER WITH SENSOR ACTIVATION, TOP FILL, BRADLEY MODEL 6-3300 OR APPROVED EQUAL WITH BRADLEY MODEL A14-029 AC ADAPTER. INSULATE ALL EXPOSED DRAIN AND SUPPLY PIPING WITH TRUBRO LAVGUARD.
LAV-4 (HC)	SURGICAL SCRUB SINK - WALL MOUNT - ADA COMPLIANT	WHITEHALL	4121ADA-MC-EFW-SWV	WHITEHALL	---	SENSOR	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: WALL MOUNTED SCRUB SINK WITH TYPE 304 STAINLESS STEEL CABINET, INTEGRAL SENSOR FAUCET WITH TEMPERATURE/PRESSURE BALANCING MIXING VALVE, 1-1/2" P TRAP WITH 3" FLAT STRAINER DRAIN, EYE/FACE WASH WITH EMERGENCY MIXING VALVE (WHITEHALL ET71-1 OR APPROVED EQUAL) AND SWIVEL NOZZLE ON GOOSENECK, AND REMOVABLE FRONT ACCESS PANEL ON CABINET.  FAUCET: INTEGRAL TO SINK	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. MAXIMUM WATER TEMPERATURE FROM FAUCET SHALL NOT EXCEED 105°F.
WC-1 (HC)	WATER CLOSET - WALL MOUNTED - ADA COMPLIANT - TOP SPUD	KOHLER	K-84325	AMERICAN STANDARD	606B.121	SENSOR	1.28 GPF	1"	10	---	---	3"	4	1-1/2"	TOILET: VITREOUS CHINA, 12-INCH ROUGH-IN, ADA COMPLIANT, ELONGATED BOWL, TOILET SEAT, WATER SENSE, SIPHON JET, COMPLIES WITH ASME A112.19.2. PROVIDE TOILET SEAT CHURCH 295CT OR APPROVED EQUAL. MINIMUM OF 25 PSI.  FLUSH VALVE: FLUSH VALVE: EXPOSED SENSOR FLUSHOMETER, POLISHED CHROME, ADA COMPLIANT, VANDAL RESISTANT. COMPLIES WITH ASSE 1037. PROVIDE AMERICAN STANDARD MODEL PK00.HAC POWER KIT.	COORDINATE GRAB BAR HEIGHT WITH FLUSH VALVE.
UR-1 (HC)	URINAL - WALL MOUNTED - ADA COMPLIANT - TOP SPUD	KOHLER	K-4991-ET	AMERICAN STANDARD	606B.013	SENSOR	0.125 GPF	3/4"	5	---	---	3"	4	3/4"	URINAL: VITREOUS CHINA, ADA HEIGHT, WALL MOUNTED, ASME A112.19.2.  FLUSH VALVE: EXPOSED SENSOR FLUSHOMETER, POLISHED CHROME, ADA COMPLIANT, VANDAL RESISTANT. COMPLIES WITH ASSE 1037. PROVIDE AMERICAN STANDARD MODEL PK00.HAC POWERKIT AND NO PIPE SEALANT ALLOWED.	PROVIDE CARRIER SUPPORT WATTS CA-311 OR APPROVED EQUAL.
DF-1 (HC)	DRINKING FOUNTAIN - WALL MOUNTED - ADA COMPLIANT	SLOAN	DRS110-FIL-REF-S S	---	---	MANUAL / SENSOR	8 GPH	1/2"	0.25	---	---	1-1/4"	0.5	1-1/2"	SINGLE LIGHT GREY WATER COOLER. REQUIRES (1) ELECTRICAL RECEPTACLES. COMPLIES WITH ASME A112.19.3 AND NSF 61.	PROVIDE SERVICE STOP WITH ACCESS AND ADDITIONAL FILTER (SLOAN FC-3000)
MS-1	MOP SINK - FLOOR MOUNTED	ADVANCE TABCO	9-OP-40DF	ADVANCE TABCO	K-240	MANUAL	9.6 GPM	3/4"	2.25	3/4"	2.25	3"	2	1-1/2"	DROP-FRONT ONE-PIECE MOP SINK, STAINLESS STEEL 3" DRAIN BODY WITH STRAINER. BRASS CHROME PLATED SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL SUPPORT BRACKET, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. COMPLIES WITH ASME A112.18.2.	PROVIDE STAINLESS STEEL SIDE AND BACK SPLASHES (ADVANCE TABCO K-298), HOSE AND HOSE HANGER (ADVANCE TABCO K-244), AND 3" P-TRAP.
SK-1	SINK - STAINLESS - ONE COMPARTMENT - DRAINBOARD	ADVANCE TABCO	FC-1-1824-18R	ADVANCE TABCO	K-112	MANUAL	2.2 GPM	3/4"	2.25	3/4"	2.25	2"	2	2"	SINK: FREESTANDING, 16-GAUGE 304 STAINLESS STEEL SINK WITH DRAINBOARD, TILE EDGE BACKSPASH, ROLLED RIM EDGE. NSF CERTIFIED.  FAUCET: BRASS CHROME PLATED BODY WITH CHROME PLATED HANDLES, 12" SWING SPOUT. COMPLIES WITH ASME A112.18.1M.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP.
SK-2	SINK - UNDERMOUNT - SINGLE BOWL	KOHLER	K-3894	KOHLER	K-22973	MANUAL	1.5 GPM	3/4"	2.25	3/4"	2.25	2"	2	2"	SINK: UNDERMOUNT, 18-GAUGE STAINLESS STEEL SINK. BOWL SHALL HAVE DIMENSIONS OF 16" W X 22" L X 6" D. POLISHED SATIN FINISH. COMPLIES WITH ASME A112.19.3 AND ADA REQUIREMENTS.  FAUCET: PLOISHED CHROME WITH SINGLE LEVER HANDLE, HIGH ARCH SPOUT. COMPLIES WITH NSF 61 & 372, AND ASME A112.18.1	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP.
WF-1	WASH FOUNTAIN - ADA COMPLIANT - BACKSPASH - FOOT ACTIVATED	BRADLEY	WF2704	---	---	MANUAL	1.0 GPM	1/2"	2.25	1/2"	2.25	2"	2	1-1/2"	SEMI-CIRCULAR WASHFOUNTAIN, 14 GAUGE STAINLESS STEEL, OFF-LINE VENT WITH SUPPLIES FROM BELOW, STANDARD HEIGHT, FOOT ACTIVATION, THERMOSTATIC MIXING VALVE, METAL-CLAD LIQUID SOAP DISPENSER, STAINLESS STEEL BACKSPASH, COMPLIES WITH ASME A112.18.1.	PROVIDE 2" P TRAP.
SH-1	SHOWER BASE - 36" x 36" - ADA COMPLIANT - TRENCH DRAIN - SHOWER FAUCET	INPRO	FRONT TRENCH DRAIN SHOWER BASE	KOHLER	SEE REMARKS	MANUAL	2 GPM	1/2"	3	1/2"	3	2"	2	1-1/2"	PAN: TRANSFER SHOWER PAN, ACRYLIC, WITH INTEGRAL TRENCH DRAIN, ANSI Z124, ALCOVE TYPE, WITH NON SLIP BOTTOM, 1/4" THRESHOLD.  SHOWER: TRIM PACKAGE: KOHLER K-TS35320-4, SHOWER KIT-K-76471-G, 1.75 GPM WATERSENSE SHOWER HEAD & HAND SHOWER, 60" RIBBON HOSE, FAUCET TRIM WITH LEVER HANDLE. ROUGH VALVE BODY-K-28304-KS, UNIVERSAL ROUGH VALVE BODY WITH DIVERTER VALVE ROUGH IN. ALL FAUCET PARTS TO COMPLY WITH ADA REGULATIONS, ASME A112.18.1, AND APPROVED EQUAL.	
SH-2	SHOWER BASE - 60" x 30" - ADA COMPLIANT - TRENCH DRAIN - SHOWER FAUCET	INPRO	FRONT TRENCH DRAIN SHOWER BASE	KOHLER	SEE REMARKS	MANUAL	2 GPM	1/2"	3	1/2"	3	2"	2	1-1/2"	PAN: TRANSFER SHOWER PAN, ACRYLIC, WITH INTEGRAL TRENCH DRAIN, ANSI Z124, ALCOVE TYPE, WITH NON SLIP BOTTOM, 1/4" THRESHOLD.  SHOWER: TRIM PACKAGE: KOHLER K-TS35320-4, SHOWER KIT-K-76471-G, 1.75 GPM WATERSENSE SHOWER HEAD & HAND SHOWER, 60" RIBBON HOSE, FAUCET TRIM WITH LEVER HANDLE. ROUGH VALVE BODY-K-28304-KS, UNIVERSAL ROUGH VALVE BODY WITH DIVERTER VALVE ROUGH IN. ALL FAUCET PARTS TO COMPLY WITH ADA REGULATIONS, ASME A112.18.1, AND APPROVED EQUAL.	
VB-1	WATER SUPPLY VALVE BOX - DOUBLE	SIOUX CHIEF	696-G2(R) SERIES (R) DENOTES FIRE RATING	---	---	MANUAL	---	1/2"	1	1/2"	1	2"	2	2"	LAUNDRY SUPPLY BOX WITH WATER HAMMER ARRESTOR. 1/2" CW AND HW SUPPLY CONNECTIONS WITH 1/4 TURN BALL VALVE. PROVIDE FIRE RATED ENCLOSURE WHEN INSTALLED IN FIRE RATED WALLS. 2" DRAIN OUTLET CONNECTION. DRAIN SHALL BE SECURED TO BOX.	PROVIDE 18" DEEP SEAL TRAP FOR SUDS ZONE.
VB-1	WATER SUPPLY VALVE BOX - SINGLE	SIOUX CHIEF	696-G1(R) SERIES (R) DENOTES FIRE RATING	---	---	MANUAL	---	1/2"	0.25	---	---	---	---	---	ICE MAKER SUPPLY BOX WITH WATER HAMMER ARRESTOR. 1/2" CW SUPPLY CONNECTION WITH 1/4 TURN BALL VALVE. PROVIDE FIRE RATED ENCLOSURE WHEN INSTALLED IN FIRE RATED WALLS.	
HB-1	HOSE BIBB - INTERIOR WITH KEY	WOODFORD	24P-3/4	---	---	MANUAL	---	3/4"	---	---	---	---	---	---	WALL FAUCET WITH ASSE STANDARD 1011 APPROVED ANTI-SIPHON VACUUM BREAKER, 3/4" MALE HOSE THREAD OUTLET SPOUT, LOOSE TEE KEY HANDLE.	
HB-2	WALL HYDRANT - FROST FREE	WOODFORD	MB65	---	---	MANUAL	---	3/4"	---	---	---	---	---	---	FREEZELESS WALL HYDRANT WITH ASSE STANDARD 1011 APPROVED VACUUM BREAKER, 3/4" MALE HOSE THREAD OUTLET SPOUT, ALL BRASS, TEE KEY OPERATED.	
HR-1	HOSE REEL - WATER - WALL MOUNTED	HANNAY	1816-17-18	---	---	MANUAL	---	1	---	---	---	---	---	---	MANUAL REWIND HOSE REEL. UNIT TO HAVE 1" FEMALE NPT INLET CONNECTED TO 90 DEGREE BALL BEARING SWIVEL JOINT, 3/4" FEMALE NPT OUTLET, CAM-LOCK DRAG BRAKE, SPRING ACTUATED PIN LOCK. REEL TO HAVE CAPACITY TO STORE 50 FT OF 1-9/32" O.D. HOSE. HOSE TO BE RMA CLASS A BLACK NITRILE WITH SYNTHETIC YARN REINFORCEMENT AND RMA CLASS B RED NBR BLEND COVER. HOSE SHALL HAVE AN I.D. OF 3/4", A MAXIMUM O.D. OF 1-9/32", AND BE RATED TO 3...  FOR EACH REEL, PROVIDE 50' OF HOSE LENGTH WITH 3/4" MALE NPT FITTING AT EACH END, MAKE FINAL CONNECTION TO REEL INLET WITH FLEXIBLE CONNECTOR. PROVIDE ASSE 1022 COMPLIANT VACUUM BREAKER AT FINAL...	
HR-2	HOSE REEL - AIR - CEILING MOUNTED	HANNAY	N716-19-20-10.5J	---	---	MANUAL	---	1	---	---	---	---	---	---	SPRING REWIND HOSE REEL. UNIT TO HAVE 1/2" FEMALE NPT INLET CONNECTED TO 90 DEGREE BALANCED PRESSURE SWIVEL JOINT, 1/2" FEMALE NPT OUTLET, DECLUTCHING ARBOR TO PREVENT DAMAGE FROM REVERSE WINDING, AND 4-WAY ROLLER ASSEMBLY. REEL TO HAVE CAPACITY TO STORE 50 FEET OF 3/4" O.D. HOSE. HOSE TO BE RMA CLASS A BLACK NITRILE WITH SYNTHETIC YARN REINFORCEMENT AND RMA CLASS B RED NBR BLEND COVER. HOSE SHALL HAVE AN I.D. OF 3/8", A MAXIMUM O.D. OF 3/4", AND BE RATED TO 300 PSI.  PROVIDE UNIT WITH "VR" ROLLER POSITION. FOR EACH REEL, PROVIDE 50' OF HOSE LENGTH WITH 1/2" MALE NPT FITTING AT INLET END, QUICK CONNECT FITTING AND HOSE STOP AT OUTLET END. MAKE FINAL CONNECTION TO REEL INLET WITH 12" FLEXIBLE STAINLESS STEEL CONNECTOR.	
PF-1	POT FILL - WALL MOUNT	KROWNE	16-182L	---	---	MANUAL	---	1/2"	0.5	---	---	---	---	---	POT FILL: SOLID CHROME PLATED BRASS UNIT TO HAVE 1/2" MALE NPS INLET CONNECTED TO 24" SWING SPOUT. 1/4 TURN SINGLE CHROME PLATED LEVER HANDLE.	
FS-1	FLOOR SINK	ZURN	Z1900	---	---	---	---	---	---	---	---	---	2	2"	FLOOR SINK: WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST 3/4 IRON GATE, POLYPROPYLENE DOME BOTTOM STRAINER, NO HUB OUTLET.	PROVIDE TRAP SEALS: ZURN Z1072. SEE PLANS FOR SIZES.
FD-1	FLOOR DRAIN (CONCRETE FLOORS)	ZURN	ZB415-BZ1-VP	---	---	---	---	---	---	---	---	---	2	2"	FLOOR DRAIN: DURA-COATED CAST IRON BODY. POLISHED BRONZE TOP AND VANDAL PROOF SECURED TOP.	PROVIDE TRAP SEALS: ZURN Z1072. SEE PLANS FOR SIZES.
TD-1	APPARATUS BAY TRENCH DRAIN	WATTS	ES-WD-DEADLEVE L-D	---	---	---	---	---	---	---	---	4"	---	2"	DRAIN TROUGH WITH LENGTHS SEGMENTED INTO INSIDE DIMENSIONS 48" L X 6" W WITH DEPTH AND CONFIGUARTION AS SPECIFIED BY MANUFACTURER. DUCTILE IRON FRAME WITH UV-STABILIZED POLYPROPELENE CHANNELS. INCLUDES FRAME CONNECTORS, GRATE LOCKDOWNS, AND CONSTRUCTION COVERS AND END-OUTLETS.	PROVIDE 4" PVC P-TRAP AND ADDITIONAL WIRE STRAINER BASKET, REMOVABLE FOR CLEANING, THAT PREVENTS PASSAGE OF SOLIDS 1/2" OR LARGER IN SIZE.
TD-2	WASHER-EXTRACTOR TROUGH DRAIN	STREIM	TT-4	---	---	---	---	---	---	---	---	4"	---	2"	DRAIN TROUGH WITH INSIDE DIMENSIONS 48" L X 18" W X 12" D. 3/4" POLYETHYLENE PROTECTIVE CASING WITH REMOVABLE, CORROSION-RESISTANT FILTER SCREEN AND SECONDARY FILTER BASKET. INCLUDES PLAIN END OUTLET.	PROVIDE 4" PVC P-TRAP AND ADDITIONAL WIRE STRAINER BASKET, REMOVABLE FOR CLEANING, THAT PREVENTS PASSAGE OF SOLIDS 1/2" OR LARGER IN SIZE.
RD-1	ROOF DRAIN - COMBINATION	ZURN	Z164-G-VP	---	---	---	---	---	---	---	---	---	---	---	12" DIAMETER COMBINATION ROOF DRAIN WITH 4-INCH DAM. DURA-COATED CAST IRON BODY AND DOME.  PROVIDE EXTENSION COLLARS AS REQUIRED TO ACCOMMODATE THICKNESS OF ROOF INSULATION. REFER TO ARCHITECTURAL PLANS FOR HEIGHTS. SEE PLANS FOR OUTLET SIZES.	

- NOTES:
1. HC REPRESENTS HANDICAPPED PLUMBING FIXTURE. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS FOR ACCESSIBLE FIXTURES.
2. ALL ELECTRONICALLY OPERATED PLUMBING FIXTURES SHALL BE HARD WIRED.

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architects  
+  
engineers

538 Broad Hollow Road, 4th Floor East  
Melville, NY 11747  
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MARK	DATE	DESCRIPTION



10/31/2027  
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**JONATHAN R. MURATORE, P.E.**  
NY PROFESSIONAL ENGINEER Lic. No. 096440

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PROJECT No: **TRFD 2302**  
DRAWN BY: **JWC**  
DATE: **FEBRUARY 2025**  
CHECKED BY: **JRM**  
SCALE: **AS SHOWN**  
REVIEWED BY: **JRM**

CLIENT

**THIELLS  
ROSEVILLE FIRE  
DISTRICT**

**NEW 26-100 FIRE  
HEADQUARTERS**



**65 W RAMAPO ROAD  
GARNERVILLE, NY 10923**

CONTRACT

**CONTRACT P  
PLUMBING CONSTRUCTION**

STATUS

**FINAL BID DOCUMENT**

SHEET TITLE

**PLUMBING SCHEDULES (1 OF 2)**

DRAWING No.

**P 600.00**

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KITCHEN PLUMBING FIXTURE SCHEDULE (FURNISHED BY OTHERS)

FIXTURE TAG	DESCRIPTION	BASIS OF DESIGN						MINIMUM CONNECTION SIZES						REMARKS	
		MAKE	MODEL	TRIM/FAUCET			MAX FLOW	COLD WATER		HOT WATER		DRAIN			VENT
MAKE	MODEL			OPERATION	SIZE	WFU		SIZE	WFU	SIZE	DFU				
SK-3	TWO COMPARTMENT SINK	---	---	---	---	---	1.5 GPM	3/4"	2.25	3/4"	2.25	2"	2	2"	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP.
KS-1	THREE COMPARTMENT BAR SINK	KROWNE	KR19-63C	KROWNE	INCLUDED WITH SINK	MANUAL	2.2 GPM	3/4"	2.25	3/4"	2.25	2"	2	2"	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES. PIPE TO DRAIN INDIRECTLY TO NEAREST FLOOR SINK.
KS-2	THREE COMPARTMENT DISHWASHING SINK	JOHN BOOS	3B18244-2D24	KROWNE	18-706L	MANUAL	1.15 GPM	3/4"	2.25	3/4"	2.25	2"	2	2"	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES. PIPE TO DRAIN INDIRECTLY TO NEAREST FLOOR SINK.
KS-3	TWO COMPARTMENT DROP-IN FOOD PREP SINK	JOHN BOOS	PB-DISINK141610-2	T&S BRASS	B-0320	MANUAL	2.2 GPM	3/4"	2.25	3/4"	2.25	2"	2	2"	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES. PIPE TO DRAIN INDIRECTLY TO NEAREST FLOOR SINK.
KS-4	HAND SINK - ADA COMPLIANT	JOHN BOOS	PBHS-ADA-P-STD	JOHN BOOS	INCLUDED WITH SINK	MANUAL	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP.
NOTES:															
1. HC REPRESENTS HANDICAPPED PLUMBING FIXTURE. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS FOR ACCESSIBLE FIXTURES.															
2. ALL ELECTRONICALLY OPERATED PLUMBING FIXTURES SHALL BE HARD WIRED.															

WATER HEATER SCHEDULE

EQUIPMENT NO.	LOCATION	TYPE	EQUIPMENT SPECIFICATIONS				BASIS OF DESIGN INFORMATION								EXPANSION TANK		REMARKS
			STORAGE	MAKE	MODEL	DIMENSIONS Ø x H (IN.)	GAS FIRED WATER HEATER				RECOVER AT 100°F RISE	WATER CONNECTION	GAS CONNECTION	EFFICIENCY	MAKE	MODEL	
WH-1	UTILITY	GAS-FIRED	119 GAL	A.O. SMITH	BTH-300MXI	33.1 x 75.8	GAS INPUT (BTU)	GAS PRESSURE (IN. W.C.)	GAS CONNECTION	FLUE SIZE	332 GAL.	1 1/2"	1 1/2"	96%	AMTROL	ST-12	NATURAL GAS WATER HEATER SHALL CONTAIN MODULATING, DOWN-FIRED POWER BURNER, POWERED, NON-SACRIFICIAL ANODES, SEAMLESS GLASS-LINED STEEL TANK, FOAM INSULATION, CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE, AND SHALL BE APPROVED FOR 0" CLEARANCE TO COMBUSTIBLES. CONTROL SHALL BE AN INTEGRATED SOLID-STATE TEMPERATURE AND IGNITION CONTROL DEVICE WITH INTEGRAL DIAGNOSTICS, GRAPHIC USER INTERFACE, FAULT HISTORY DISPLAY, AND SHALL HAVE DIGITAL TEMPERATURE READOUT. WATER HEATER SHALL COMPLY WITH ANSI Z21.10.3 - CSA 4.3, SHALL MEET THE U.S. DEPARTMENT OF ENERGY THERMAL EFFICIENCY AND STANDBY LOSS REQUIREMENTS AND CURRENT EDITION ASHRAE/IES 90.1, AND SHALL COMPLY WITH SCAQMD RULE 1146.2.

PUMP SCHEDULE

EQUIPMENT NO.	LOCATION	TYPE	SERVICE	FLOW RATE	TDH	RPM	HP (EA)	PHASE	CYCLE	VOLTAGE	SPECIFICATIONS	REMARKS
CP-1	UTILITY	SIMPLEX	HOT WATER RECIRC	3 GPM	4 FT	3250	1/40	1	60 HZ	115 V	STAINLESS STEEL CASING, STAINLESS STEEL REPLACEABLE CARTRIDGE, DIRECT DRIVE, LOW POWER CONSUMPTION, SELF LUBRICATING WITH NO MECHANICAL SEAL, STAINLESS STEEL THREADED CONNECTIONS, PUMP TO BE NSF/ANSI 61 & 372 CERTIFIED	PROVIDE NSF APPROVED TACO PUMP MODEL 006 WITH TACO AQUASTAT MODEL 563-2
CP-2	UTILITY	SIMPLEX	TEMPERED WATER RECIRC	3 GPM	8 FT	3250	1/25	1	60 HZ	115 V	STAINLESS STEEL CASING, STAINLESS STEEL REPLACEABLE CARTRIDGE, DIRECT DRIVE, LOW POWER CONSUMPTION, SELF LUBRICATING WITH NO MECHANICAL SEAL, STAINLESS STEEL THREADED CONNECTIONS, PUMP TO BE NSF/ANSI 61 & 372 CERTIFIED	PROVIDE NSF APPROVED TACO PUMP MODEL 007 WITH TACO AQUASTAT MODEL 563-2
EP-1	ELEVATOR PIT	SIMPLEX SUBMERSIBLE	ELEVATOR PIT	50 GPM	50 FT	3450	.5	1	60 HZ	115 V	PROVIDE CAST IRON, POWDER COATED EPOXY FINISHED SUBMERSIBLE TYPE PUMP. MOTOR SHALL BE HERMETICALLY SEALED & OPERATE IN DIELECTRIC OIL. MOTOR SHALL HAVE INTERNAL AUTOMATIC RESETTNG AND THERMAL OVERLOAD PROTECTION. IMPELLER SHALL BE BRONZE AND OF VORTEX NON-CLOG DESIGN. PUMP SWITCH SHALL BE INDUSTRIAL GRADE WITH 20 AMP RELAY AND 304 STAINLESS STEEL SENSOR PROBES TO DETECT WATER LEVEL AND THE PRESENCE OF OIL AND OR HYDROCARBONS, ALARM PANEL SHALL SOUND AUDIBLE AND VISUAL ALARM UPON DETECTION OF OIL OR HIGH WATER LEVEL CONDITIONS	PROVIDE ZOELLER PREPACKAGED SYSTEM, MODEL 940-0013, OIL SMART. PROVIDE 115V PIGGYBACK POWER PLUG AND CHECK VALVE ON PUMP DISCHARGE.
GP-1	SEE SITE PLAN	SIMPLEX	NATURAL GAS	23,000 CFH	13" W.C.	-	1	3	60 HZ	208 V	SEE SPECIFICATION SECTION # 223302	PROVIDE EXTERIOR-RATED STEEL ENCLOSURE WITH LOCKABLE DOOR AND SIDE LOUVERS. SEE DETAIL ON PLAN P 502 FOR MORE INFORMATION.

AIR COMPRESSOR SCHEDULE

EQUIPMENT NO.	LOCATION	MANUFACTURER	MODEL	TYPE	SERVICE	TANK SIZE (GAL)	OUTPUT (CFM)	HP (EA)	PHASE	CYCLE	VOLTAGE	DIMENSIONS L x W x H (IN.)	WEIGHT (LBS)	SPECIFICATION	REMARKS
AC-1	UTILITY	QUINCY	QT-5	PISTON	COMPRESSED AIR	80	17	HP	3	60 HZ	200 V	35.0 x 28.0 x 77.0	680	RECIPROCATING PISTON AIR COMPRESSOR WITH SLOW SPEED OPEN DRIP PROOF MOTOR, 200 PSIG-RATED ASME/CRN RATED RECEIVER, ASME RATED RELIEF VALVES, TANK PRESSURE GAUGE, SERVICE VALVE, PRESSURE SWITCH, LOADLESS AUTO-STOP/START CONTROLS, AND UL LISTED AND CSA CERTIFIED ELECTRICAL COMPONENTS.	PROVIDE TSUNAMI 21999-0177 AUTOMATIC DRAIN VALVE FOR TANK DRAIN.

MIXING VALVE SCHEDULE

EQUIPMENT NO.	LOCATION	BASIS OF DESIGN INFORMATION								SPECIFICATION
		MAXIMUM PRESSURE RANGE	MINIMUM FLOW	INLET SIZE	OUTLET SIZE	TEMPERATURE SETPOINT	MANUFACTURER	MODEL	NOMINAL DIMENSIONS (W X H)	
MV-1	UTILITY MEZZANINE	125 PSI	0.5 GPM	1-1/4"	1-1/2"	120 DEG. F.	WATTS	LFSH1434	15-1/4" X 9-1/4"	LEAD FREE BRASS MIXING VALVE. MIXING VALVE SHALL HAVE AN APPROACH TEMPERATURE OF 5 DEG. F., AN OUTLET TEMPERATURE RANGE FROM 90 DEG. F TO 160 DEG. F, A LOCKABLE TEMPERATURE SETTING FEATURE, AND SHALL COME STANDARD WITH UNION CHECK STOPS. VALVE SHALL HAVE MINIMUM FLOW OF 0.5 GPM AND SHALL BE LISTED TO ASSE 1017 AND CSA B125.
MV-2	BELOW SINKS	125 PSI	0.5 GPM	1/2"	1/2"	105 DEG. F.	WATTS	LFMMV	4-7/8" X 5-7/16"	LEAD FREE BRASS MIXING VALVE. MIXING VALVE SHALL HAVE AN APPROACH TEMPERATURE OF 5 DEG. F., AN OUTLET TEMPERATURE RANGE FROM 80 DEG. F TO 120 DEG. F, A LOCKABLE TEMPERATURE SETTING FEATURE, AND SHALL COME STANDARD WITH UNION CHECK STOPS. VALVE SHALL HAVE MINIMUM FLOW OF 0.5 GPM AND SHALL BE LISTED TO ASSE 1017 AND CSA B125.70.

NOTE: ALL MIXING VALVES SHALL BE ASSE AND NSF COMPLIANT.

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CONSULTANTS:		

MARK	DATE	DESCRIPTION



JONATHAN R. MURATORE, P.E.

NY PROFESSIONAL ENGINEER L.E. No. 096440

10/31/2027  
Exp. Date

DESIGNED BY: CRG

DRAWN BY: JWC

CHECKED BY: JRM

REVIEWED BY: JRM

PROJECT No: TRFD 2302

DATE: FEBRUARY 2025

SCALE: AS SHOWN

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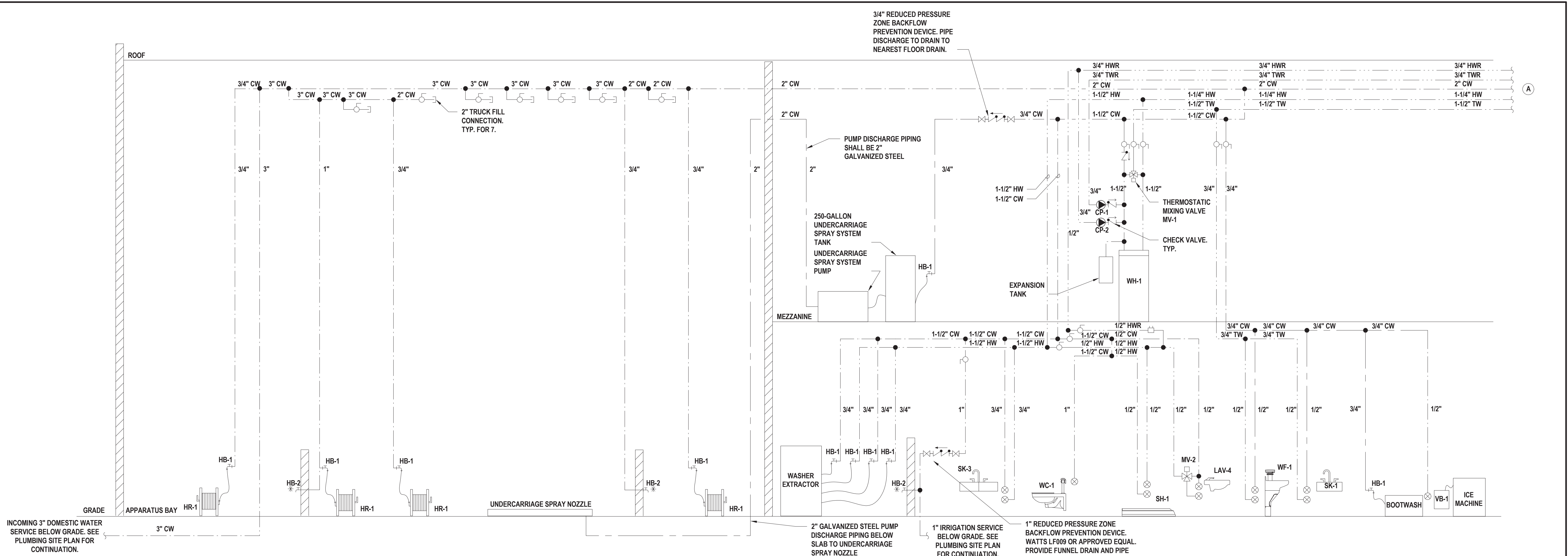
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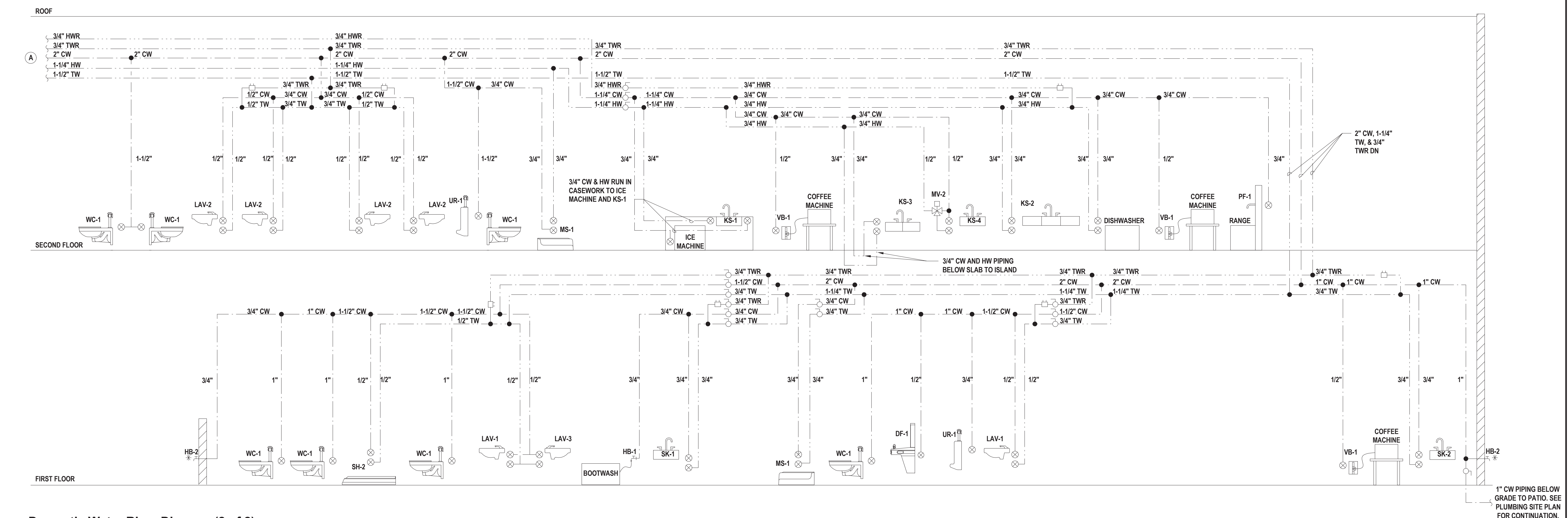
PLUMBING SCHEDULES (2 OF 2)

DRAWING No.

P 601.00



1 Domestic Water Riser Diagram (1 of 2)  
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2 Domestic Water Riser Diagram (2 of 2)  
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NY PROFESSIONAL ENGINEER L.C. No. 006440  
Exp. Date 10/31/2027

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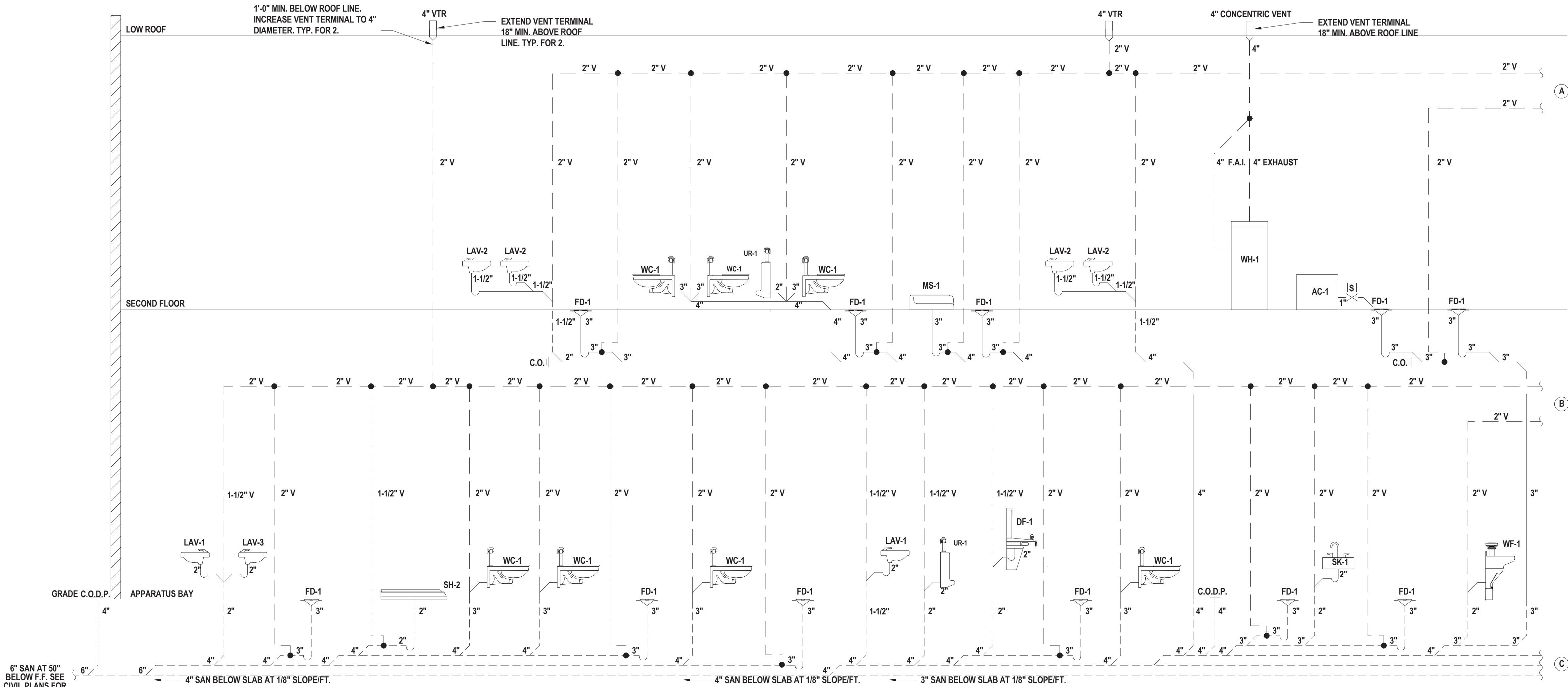
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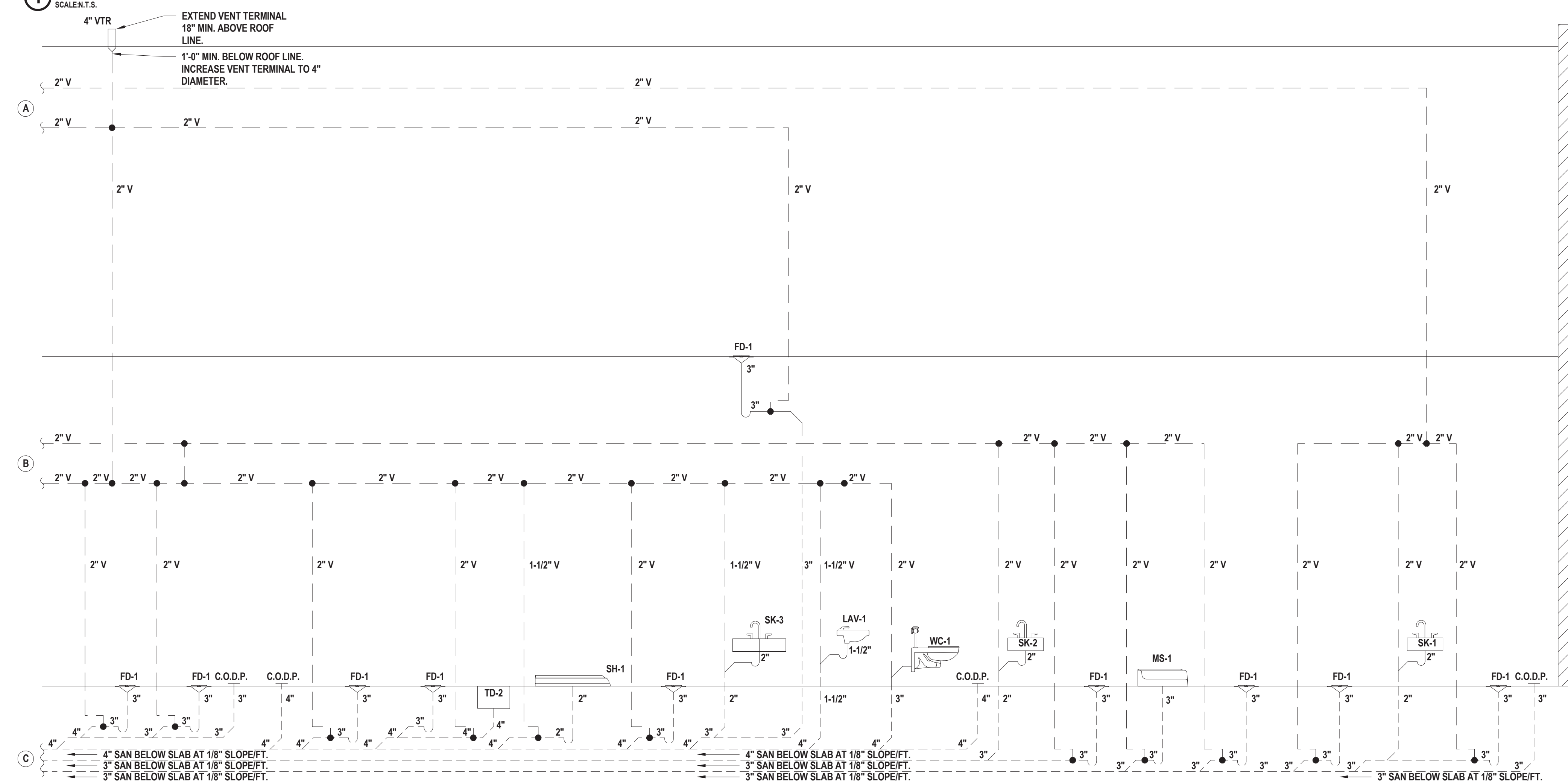
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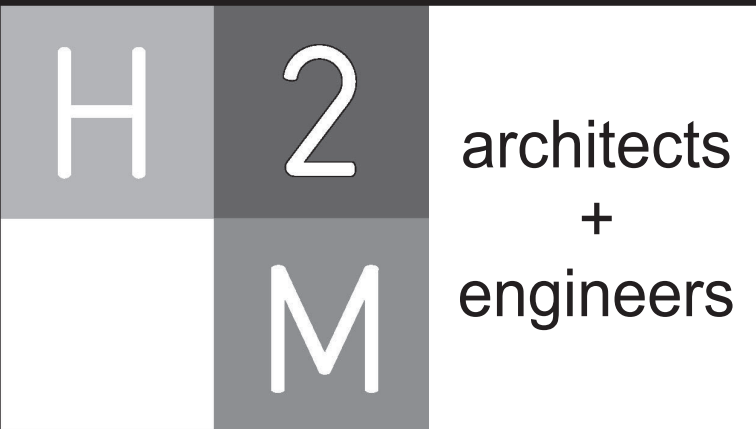
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1 Sanitary and Vent Riser Diagram - Admin Space (1 of 2)



2 Sanitary and Vent Riser Diagram - Admin Space (2 of 2)



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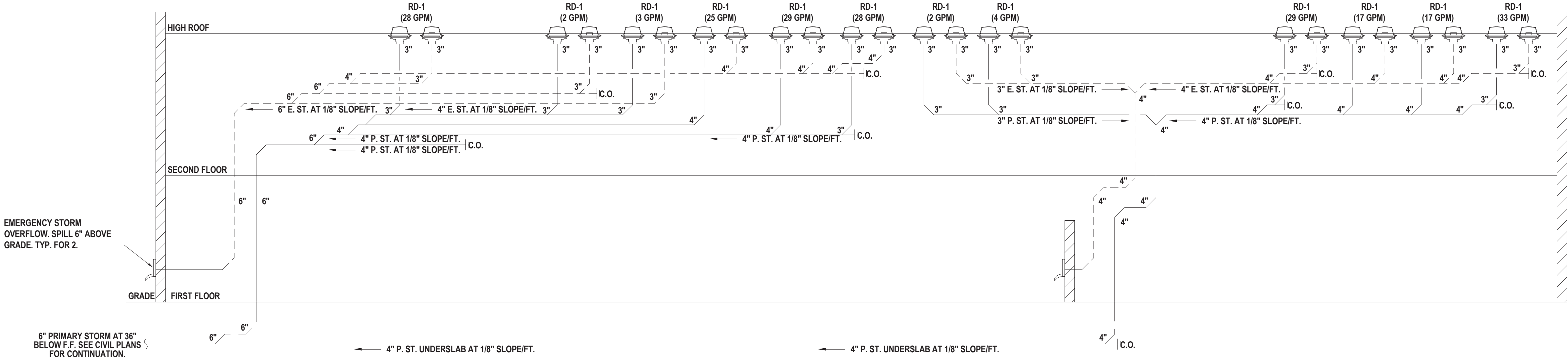
**SANITARY, VENT, AND STORM  
RISER DIAGRAMS (1 OF 2)**

DRAWING No.

**P 611.00**

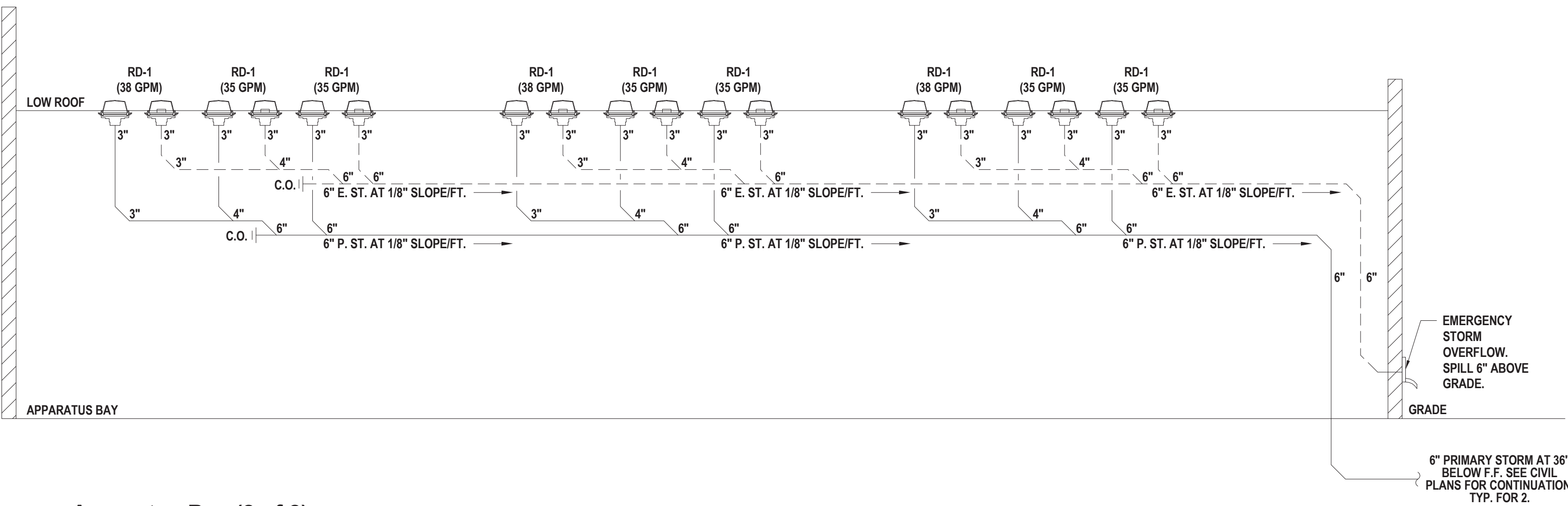
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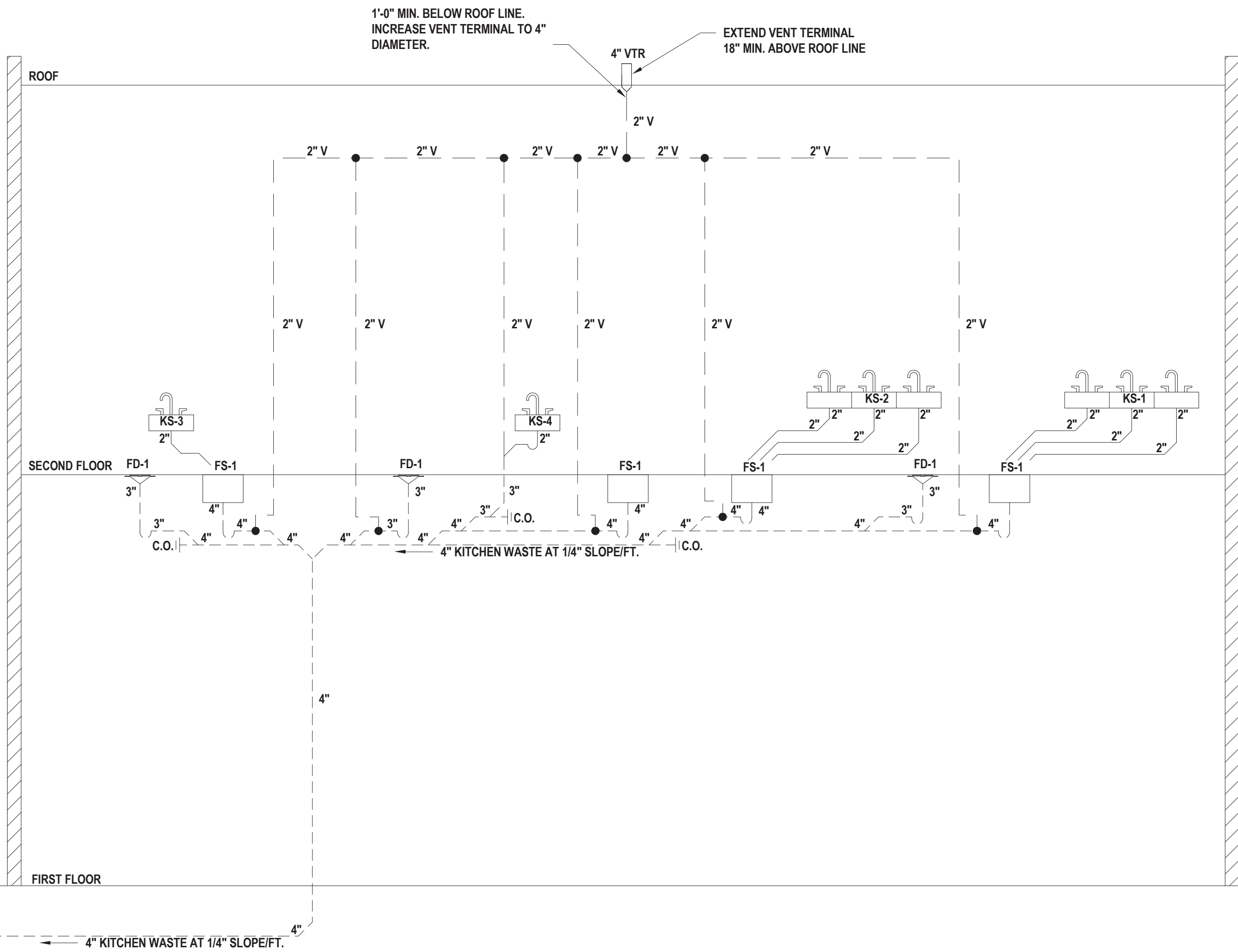
1 Storm Riser Diagram - Admin Space (1 of 2)

SCALE: T.S.



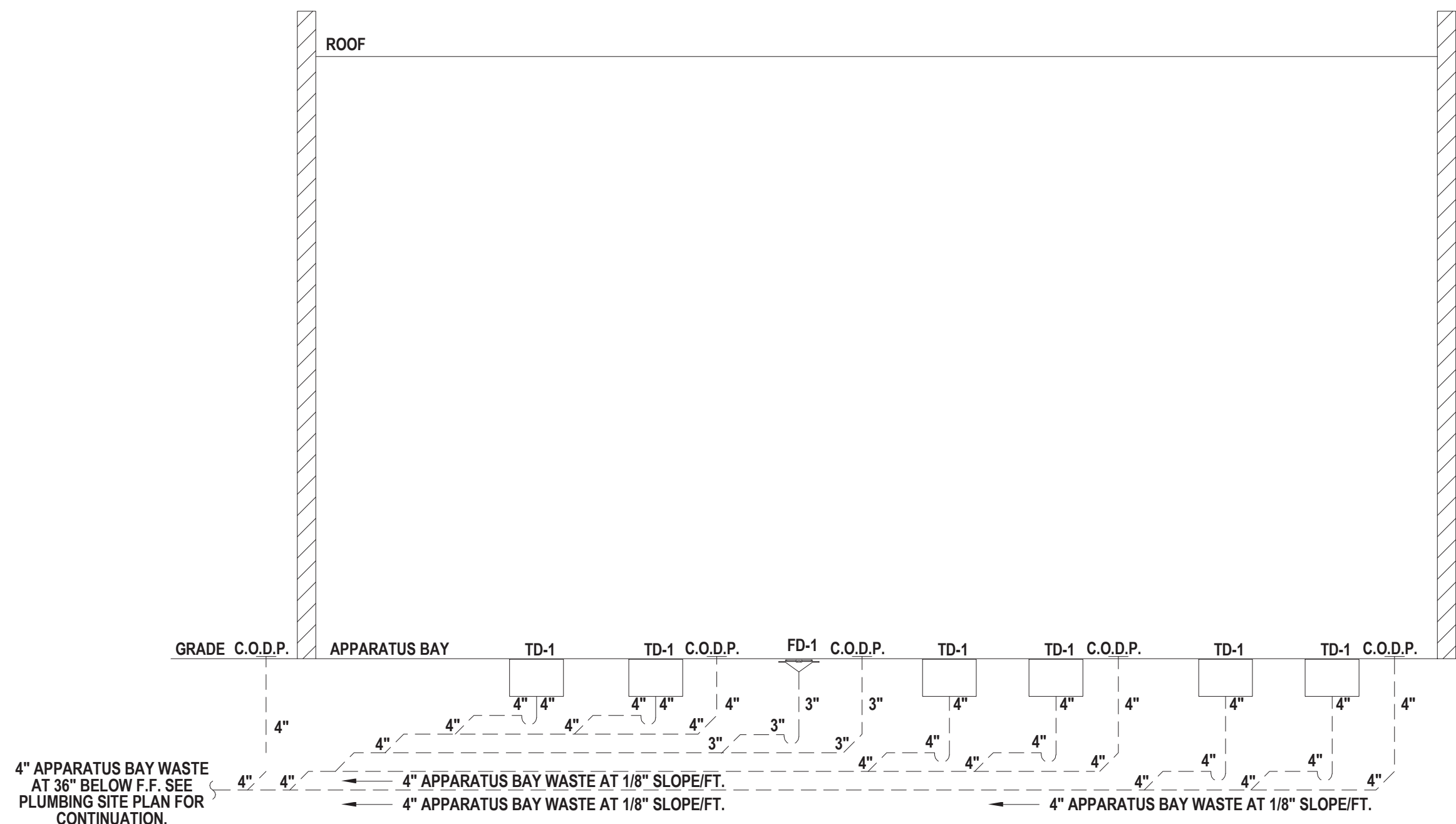
2 Storm Riser Diagram - Apparatus Bay (2 of 2)

SCALE: T.S.



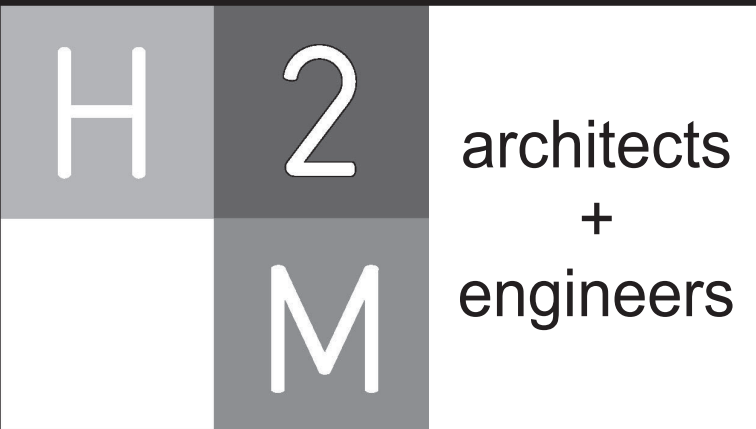
3 Kitchen Waste Riser Diagram

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4 Apparatus Bay Waste Riser Diagram

SCALE: T.S.



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