

PLUMBING CALCULATIONS

SYMBOL & ABBREVIATIONS

GENERAL NOTES

PLUMBING FIXTURE UNIT SCHEDULE					
TAG	FIXTURE	DRAINAGE FIXTURE UNITS	WATER SUPPLY FIXTURE UNITS		
			COLD	HOT	TOTAL
P-1	WATER CLOSET – PRIVATE	3	6	–	6
P-2	LAVATORY – PRIVATE	1	0.5	0.5	0.7
P-3	LAVATORY – PRIVATE	1	0.5	0.5	0.7
P-4	URINAL – 3/4" INLET	1	5	–	5
P-5	KITCHEN SINK	2	1.0	1.0	1.4
P-6	SHOWER	2	1.0	1.0	1.4
P-7	UTILITY SINK	2	2.25	2.25	3.0
P-8	BOTTLE FILL	0.5	0.25	–	0.25
P-9	MOP SINK	2	2.25	2.25	3.0
P-11	SERVICE SINK	2	2.25	2.25	3.0
WM	LAUNDRY WASHER	2	1.0	1.0	1.4
FD	FLOOR DRAIN	2	–	–	–
HB	HOSE BIB	–	20	–	20
NFHB	NON-FREEZE HOSE BIB	–	20	–	20

NOTES:
DRAINAGE FIXTURE UNIT VALUES AND WATER FIXTURE LOADS VALUES ARE IN ACCORDANCE WITH SECTION 709 & E103 OF THE 2020 PLUMBING CODE OF NEW YORK STATE.

WATER SYSTEM SIZING CALCULATIONS:

PIPE MATERIAL: TYPE L COPPER.

FIXTURE UNIT COUNT AT SOURCE: APPROXIMATELY 275 FIXTURES UNITS WITH SUPPLY SYSTEM PREDOMINATELY FOR FLUSH TANK TOILETS AND 8 HYDRANTS. THIS EQUATES TO APPROXIMATELY 104 GPM.

PIPE SIZING AT SOURCE = 3"DIA.
PER PUBLISHED HYDRAULIC DATA, 3"DIA TYPE L COPPER AT 104 GPM = 2.61'/100' HEAD LOSS.

ALL PIPE SIZING ON THIS SYSTEM HAS BEEN BASED ON A MORE CONSERVATIVE 4'/100' HEAD LOSS ESTIMATE.

WATER PRESSURE AT SOURCE: ASSUMING 60 PSI STATIC PRESSURE.

HEAD LOSS CALCULATIONS

VALVES & FITTINGS:

- 3" WATER METER WITH STRAINER = 2.0 PSI
 - 3" RPZ = 7.0 PSI
 - (6) ISOLATION VALVES = ~ 7' EQUIVALENT X 4'/100 = 0.3' = 0.13 PSI
 - (14) ELBOWS = ~ 90' EQUIVALENT X 4'/100' = 3.6' = 1.6 PSI
 - (8) BRANCH TEE = ~ 6.3' EQUIVALENT X 4'/100' = 0.24' = 0.11 PSI
- TOTAL PRESSURE LOSS = 10.84 PSI
FACTOR OF SAFETY (+ 5%) = 11.38 PSI

PIPE LOSS CALCULATIONS

- PIPE RUN TO FARTHEST FIXTURE: ~ 180' X 4'/100 = 7.2' = 3.13 PSI
 - ELEVATION CHANGE TO FARTHEST FIXTURE: 18' = 7.8 PSI
- TOTAL PIPE LOSS = 10.93 PSI

TOTAL LOSS ESTIMATES = 22.31 PSI
PRESSURE AT SOURCE = 60 PSI

AVAILABLE PRESSURE AT FARTHEST FIXTURES = 37.69 PSI.

TOTAL BUILDING	P-7 = 2
FIXTURE COUNT:	P-8 = 3
P-1 = 9	P-9 = 0
P-2 = 8	P-11 = 2
P-3 = 3	WM = 2
P-4 = 6	HB-1 = 2
P-5 = 1	NFHB = 6
P-6 = 1	

TOTAL FIXTURE UNITS = 274.25
FLOW = ~104 GPM

DRAINAGE SYSTEM SIZING CALCULATIONS:

PIPE SIZING AT SEWER CONNECTION = 4" SANITARY.
ALL PIPE SIZING ON THIS SYSTEM HAS BEEN BASED ON A 1/8" PER FOOT SLOPE.
TOTAL DRAINAGE FIXTURE UNITS = 77.5.

AS PER TABLE 710.1(1):
MAXIMUM NUMBER OF DRAINAGE FIXTURES UNITS
4" SANITARY MAIN AT 1/8" PER FOOT SLOPE = 180 > 77.5.

NOTE: WATER FIXTURE LOADS AND PIPE SIZES CALCULATED IN ACCORDANCE WITH SECTION E103 OF THE 2020 PLUMBING CODE OF NEW YORK STATE.

NOTE: DRAINAGE FIXTURE UNITS CALCULATED IN ACCORDANCE WITH SECTION 709 AND 710 OF THE 2020 PLUMBING CODE OF NEW YORK STATE.

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
————	NEW	NEW WORK ABOVE SLAB	—	VTR	VENT THROUGH ROOF
-----	NEW	NEW WORK BELOW SLAB	—	FS	FLOOR SINK
— — — — —	CW	COLD WATER	—	FAI	FRESH AIR INTAKE
— — — — —	HW	HOT WATER	—	RPZ	REDUCED PRESSURE ZONE – BFP
— — — — —	HWC	HOT WATER RECIRCULATION	—	BP	BOOSTER PUMP
--- V ---	V	VENT	—	RP	RECIRCULATION PUMP
— W —	W	WASTE LINE	—	DCV	DOUBLE CHECK VALVE – BFP
— S —	S	SOIL LINE	—	TYP	TYPICAL
— G —	G	GAS LINES	—	H.W. HTR	HOT WATER HEATER
— L —	LDR	LEADER			
— SS —	SS	SANITARY SEWER (SITE WORK ONLY)			
— SD —	SD	STORM DRAINAGE			
— PD —	PD	PUMP DISCHARGE			
	–	3-WAY VALVE			
	–	BUTTERFLY VALVE			
	–	2-WAY VALVE			
	–	PLUG VALVE			
	–	SOLENOID VALVE			
	–	GATE VALVE			
	–	GLOBE VALVE			
	–	CHECK VALVE			
	–	OS&Y GATE VALVE			
	–	BALL VALVE			
	–	CIRCUIT SETTER			
	–	MANUAL AIR VENT			
	–	T&P RELIEF VALVE			
	–	PRESSURE REDUCING VALVE			
	–	TEE DOWN			
	–	ELBOW DOWN			
	–	TEE UP			
	–	ELBOW UP			
	–	PIPE CAP			
	CODP	CLEAN OUT DECK PLATE			
	WCO	WALL CLEAN OUT			
	FCO	FLOOR CLEAN OUT			
	FLFD	FUNNEL FLOOR DRAIN			
	–	CONCENTRIC REDUCER			
	–	ECCENTRIC REDUCER			
	–	STRAINER			
	–	FLEXIBLE CONNECTION			
	–	FLOW ARROW			
	–	PRESSURE GAGE			
	–	PUMP			
	–	THERMOMETER			
	–	BASKET STRAINER			
	HB	HOSE BIB			
	NFHB	NON-FREEZE HOSE BIB			
	RD	ROOF DRAIN			
	FD	FLOOR DRAIN			
	–	UNION			
	–	RISER TAG			
	–	EYE WASH			
	–	WALL HYDRANT			
–	AFF	ABOVE FINISHED FLOOR			
–	AHC	ABOVE HUNG CEILING			
–	BFP	BACK FLOW PREVENTOR			

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- INDIVIDUAL, BRANCH AND CIRCUIT VENTS SHALL CONNECT TO A VENT STACK, STACK VENT, OR EXTEND TO THE OPEN AIR. EVERY DRY VENT CONNECTING TO A HORIZONTAL DRAIN SHALL CONNECT ABOVE THE CENTERLINE OF THE HORIZONTAL DRAIN PIPE. EVERY DRY VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6 INCHES ABOVE THE FLOOD LEVEL RIM OF THE HIGHEST TRAP OR TRAPPED FIXTURE BEING VENTED. A CONNECTION BETWEEN A VENT PIPE AND A VENT STACK OR STACK VENT SHALL BE MADE AT NOT LESS THAN 6 INCHES ABOVE THE FLOOD LEVEL RIM OF THE HIGHEST FIXTURE SERVED BY THE VENT. HORIZONTAL VENT PIPES FORMING BRANCH VENTS, RELIEF VENTS OR LOOPS SHALL BE LOCATED NOT LESS THAN 6 INCHES ABOVE THE FLOOD LEVEL RIM OF THE HIGHEST FIXTURE SERVED.
- IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS LESS THAN 1 1/4 INCHES FROM THE NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY STEEL PLATES. SUCH SHIELDS SHALL HAVE A THICKNESS OF NOT LESS THAN 0.0575 INCH (NO. 16 GAUGE). SUCH PLATES SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND NOT LESS THAN 2 INCHES ABOVE THE SOLE PLATES AND BELOW THE TOP PLATES.

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Owner: **Bedford Village Fire District**
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Bedford, NY 10506

MEP Engineer: **OLA Consulting Engineers**

50 Broadway, Hawthorne, NY 10532
8 West 38th St, Suite 501, New York, NY
Tel: 914-747-2800

Date Issue

03.10.20	MEETING
03.27.20	DESIGN DEVELOPMENT
05.07.20	PROGRESS
05.08.20	CD PROGRESS SET
05.28.20	CD PROGRESS SET
06.30.20	CD REVIEW SET
09.01.20	CONSTRUCTION PROGRESS
09.15.20	ICC SUBMISSION
01.15.21	ISSUED FOR BID

Project Title

Bedford Fire Headquarters

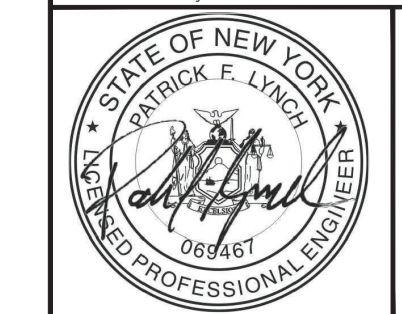
550 Old Post Road
Bedford, NY 10506

Drawing Title

PLUMBING SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

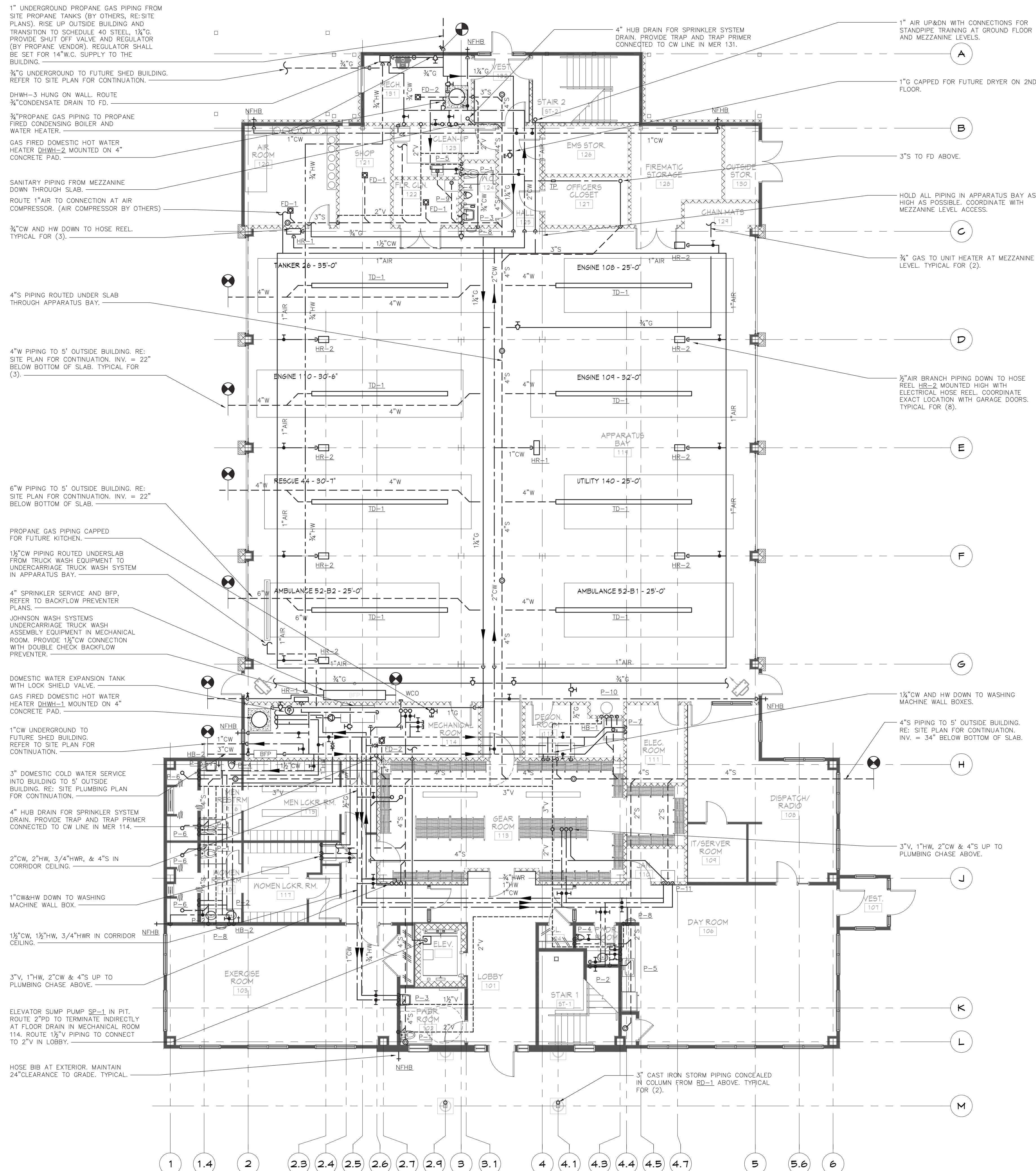
Project No.	NSPC001000
Date	03-21-20
Scale	AS NOTED
Drawing by	JRT

Checked by: **JF/RS**



Drawing No.

P0.1



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

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01.15.21	ISSUED FOR BID

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Bedford Fire Headquarters

550 Old Post Road
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Drawing Title

PLUMBING FIRST FLOOR PLAN

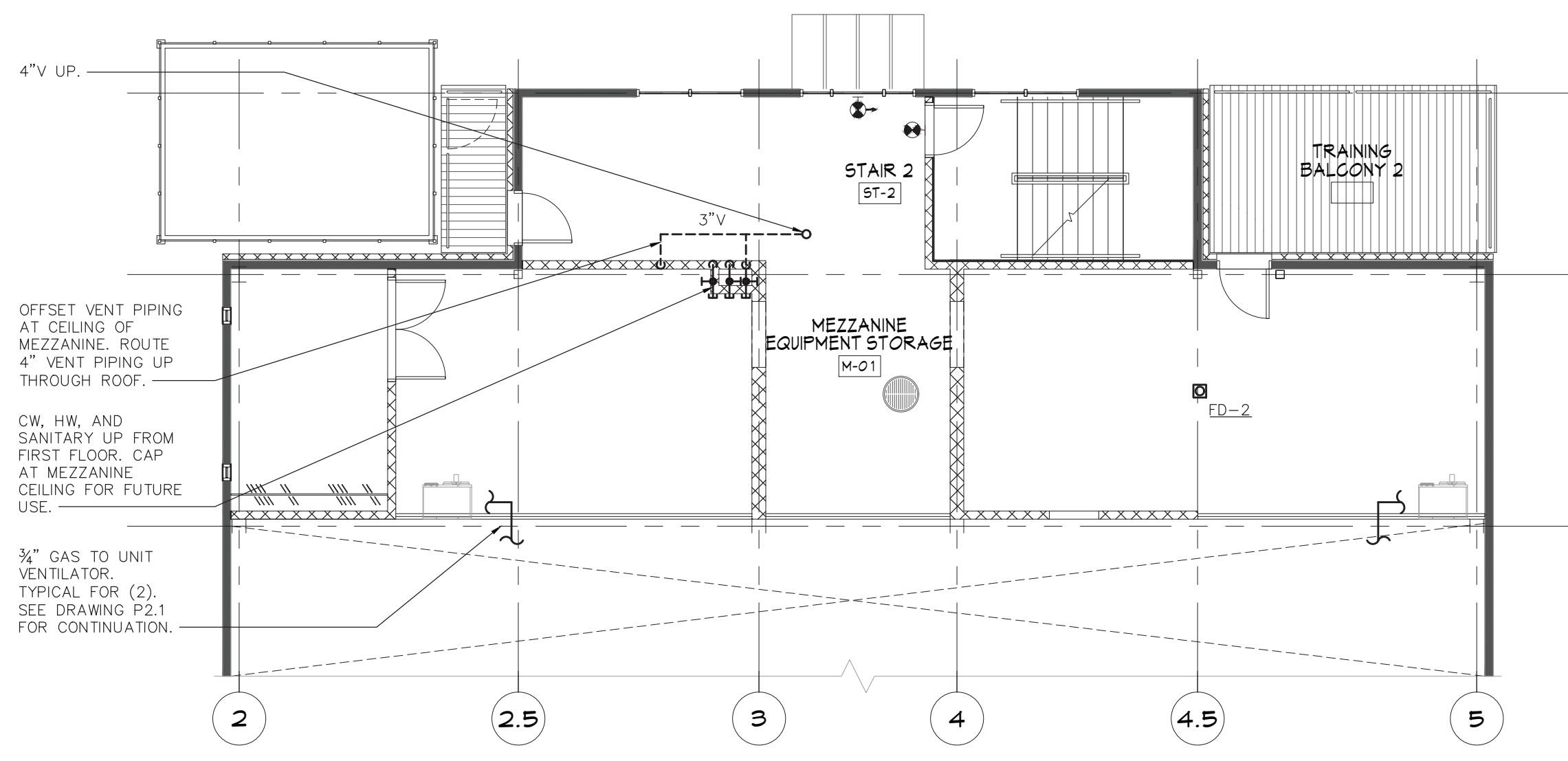
Project No.	NSPC001000
Date	03-21-20
Scale	AS NOTED
Drawing by	JRT

Checked by: **JF/RS**

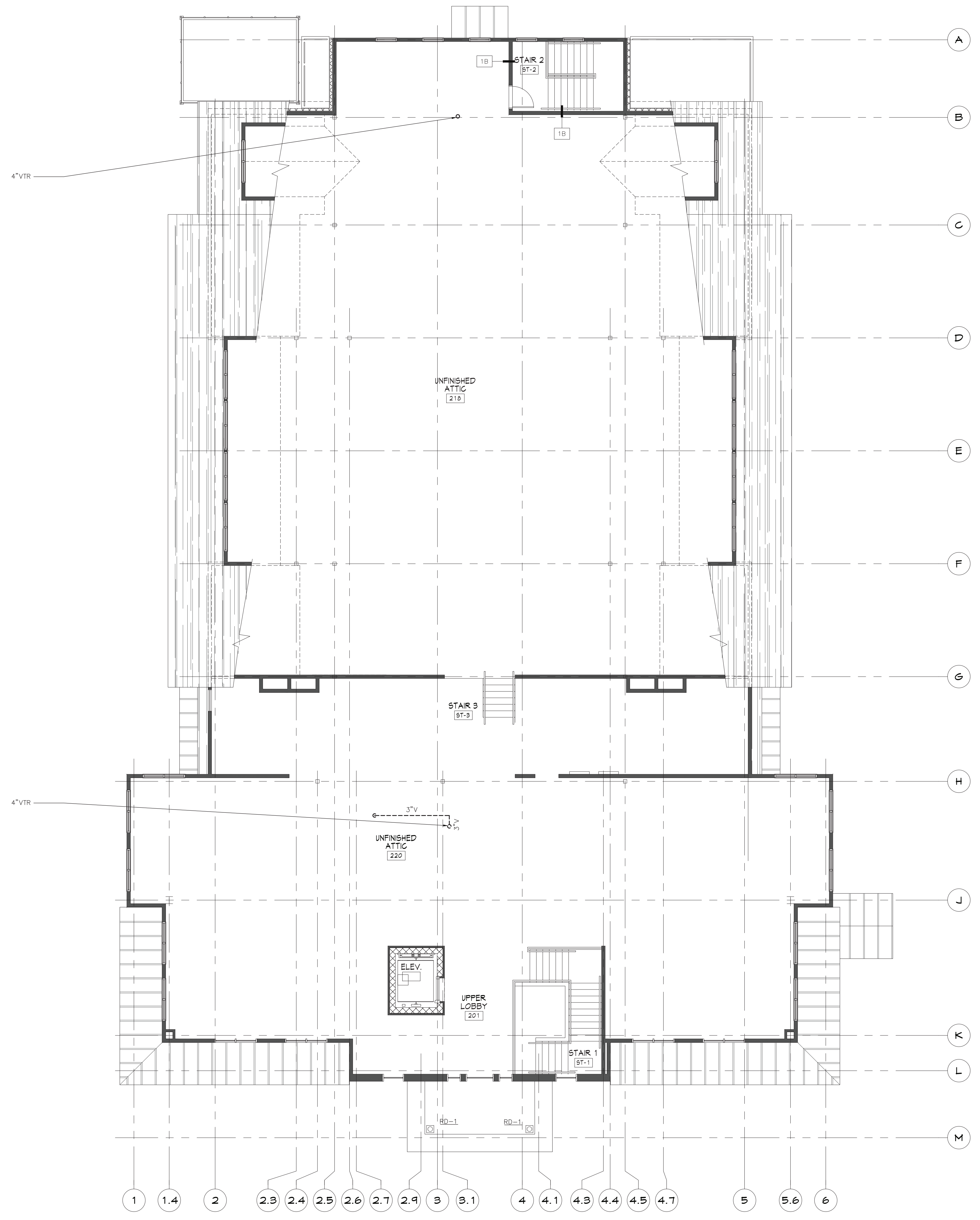


Drawing No.

P2.1



1 PLUMBING MEZZANINE PLAN
SCALE: 1/8" = 1'-0"
NORTH



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

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09.15.20	ICC SUBMISSION
01.15.21	ISSUED FOR BID

Project Title

**Bedford
Fire
Headquarters**

550 Old Post Road
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Drawing Title
**PLUMBING MEZZANINE &
SECOND FLOOR PLAN**

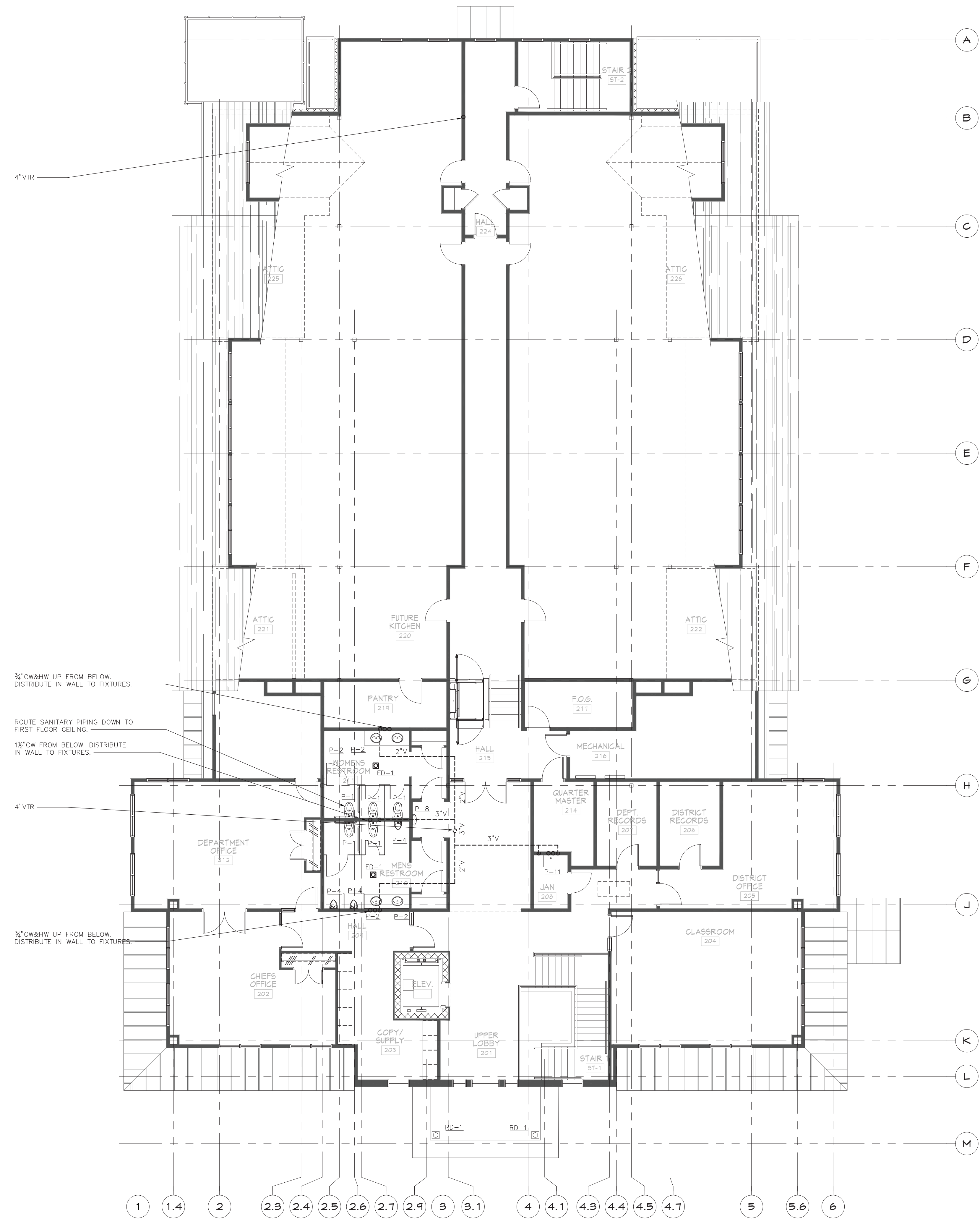
Project No. NSPC0010.00
Date 03-21-20
Scale AS NOTED
Drawing by JRT

Checked by JF/RS



Drawing No.

P2.2



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

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09.01.20	CONSTRUCTION PROGRESS
09.15.20	ICC SUBMISSION
01.15.21	ISSUED FOR BID

Project Title

Bedford Fire Headquarters


550 Old Post Road
Bedford, NY 10506

Drawing Title

PLUMBING SECOND FLOOR ALTERNATE PLAN

Project No.	NSPC0010.00
Date	03-21-20
Scale	AS NOTED
Drawing by	JRT

Checked by: JF/RS

	Drawing No. P2.2A
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- GENERAL NOTES:**
- ADEQUATE HEAT AND LIGHT SHALL BE PROVIDED IN LOCATIONS WHERE BACKFLOW PREVENTERS ARE TO BE INSTALLED.
 - THE CONTRACTOR SHALL USE ONLY AMERICAN MADE, UL/FM APPROVED VALVES.
 - NO WORK SHALL PROCEED WITHOUT WESTCHESTER COUNTY DEPARTMENT OF HEALTH APPROVAL.
 - BACKFLOW PREVENTER ARRANGEMENT SHALL NOT BE ALTERED WITHOUT PRIOR APPROVAL BY WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
 - BACKFLOW PREVENTION SHALL BE PROTECTED FROM THE HIGHEST FLOOD LEVEL.
 - BY-PASSES AROUND BACKFLOW PREVENTER ASSEMBLY SHALL NOT BE PERMITTED.
 - BACKFLOW PREVENTER DEVICE SHALL BE TESTED INITIALLY AND ANNUALLY BY A CERTIFIED AND LICENSED TESTER. AT THE TIME OF INITIAL TESTING PART A AND B OF DOH 1013 FORM MUST BE COMPLETED, TEST RESULTS (FORM DOH 1013) SHALL BE FORWARDED TO WESTCHESTER COUNTY DEPARTMENT OF HEALTH, OWNER AND ENGINEER.
 - THE BACKFLOW PREVENTER SHALL BE REBUILT EVERY FIVE YEARS.
 - ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER IN THE TOWN OF BEDFORD AND ACCORDING TO DEPARTMENT OF PUBLIC WORKS REGULATIONS.
 - CONTRACTOR SHALL DISINFECT AND PRESSURE TEST BACKFLOW PREVENTER ASSEMBLY BEFORE PLACING IN SERVICE. DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA STANDARD C651-05 WITH THE EXCEPTION OF SECTION 4.4.2.
 - CONTRACTOR SHALL ADEQUATELY SUPPORT ALL PIPING AND DEVICES.
 - WHERE THE DISTANCE BETWEEN THE WATER METER AND THE BACKFLOW PREVENTER ASSEMBLY IS GREATER THAN 10'-0", ALL EXPOSED PIPING SHALL BE STENCILED "FEED LINE TO BACKFLOW PREVENTER - DO NOT TAP" AT 5'-0" INTERVALS.

- EQUIPMENT NOTES:**
- THE 3"Ø DOMESTIC WATER BACKFLOW PREVENTER ASSEMBLY SHALL BE WATTS MODEL LF009M2QT REDUCED PRESSURE ZONE (LEAD FREE) BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F (CONSTANT) AND 140°F (INTERMITTENT). THE ASSEMBLY SHALL HAVE SILICON SEATS AND LEAD FREE CAST COPPER SILICON ALLOY VALVE BODIES.
 - DOMESTIC WATER METER SHALL BE 3" SIZE PROVIDED AND INSTALLED BY TOWN OF BEDFORD WATER DEPARTMENT. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION.

- INSTALLATION NOTES:**
- STRAINERS ARE RECOMMENDED PRIOR TO EACH BACKFLOW DEVICE ON NON-FIRE FIGHTING LINES ONLY. NO STRAINER IS TO BE USED ON A FIRE LINE WITHOUT INSURANCE UNDERWRITER APPROVAL.
 - ASSEMBLIES SHOULD BE SPECIFIED AND INSTALLED WITH MANUFACTURER SUPPLIED VALVES.
 - WATER LINES SHOULD BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF DEVICE TO PREVENT DEBRIS FOULING THE DEVICE CHECK VALVES.
 - DEVICES MUST BE MOUNTED HORIZONTALLY UNLESS APPROVED FOR VERTICAL INSTALLATION.
 - ASSEMBLIES SHOULD NOT BE INSTALLED IN AREAS CONTAINING CORROSIVE OR TOXIC GASES WHICH COULD RENDER THE DEVICE INOPERABLE.
- NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH WESTCHESTER COUNTY DEPARTMENT OF HEALTH REQUIREMENTS.

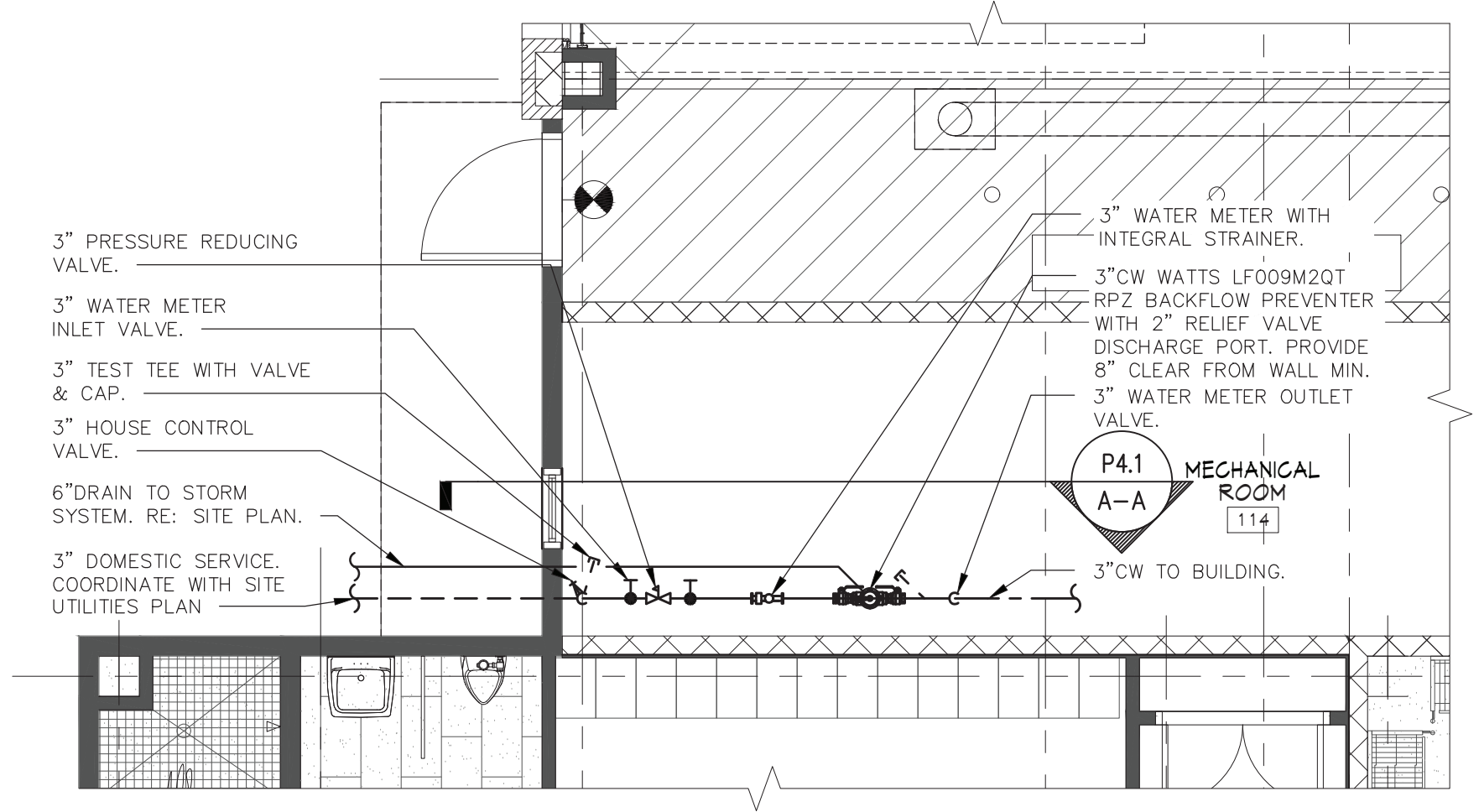
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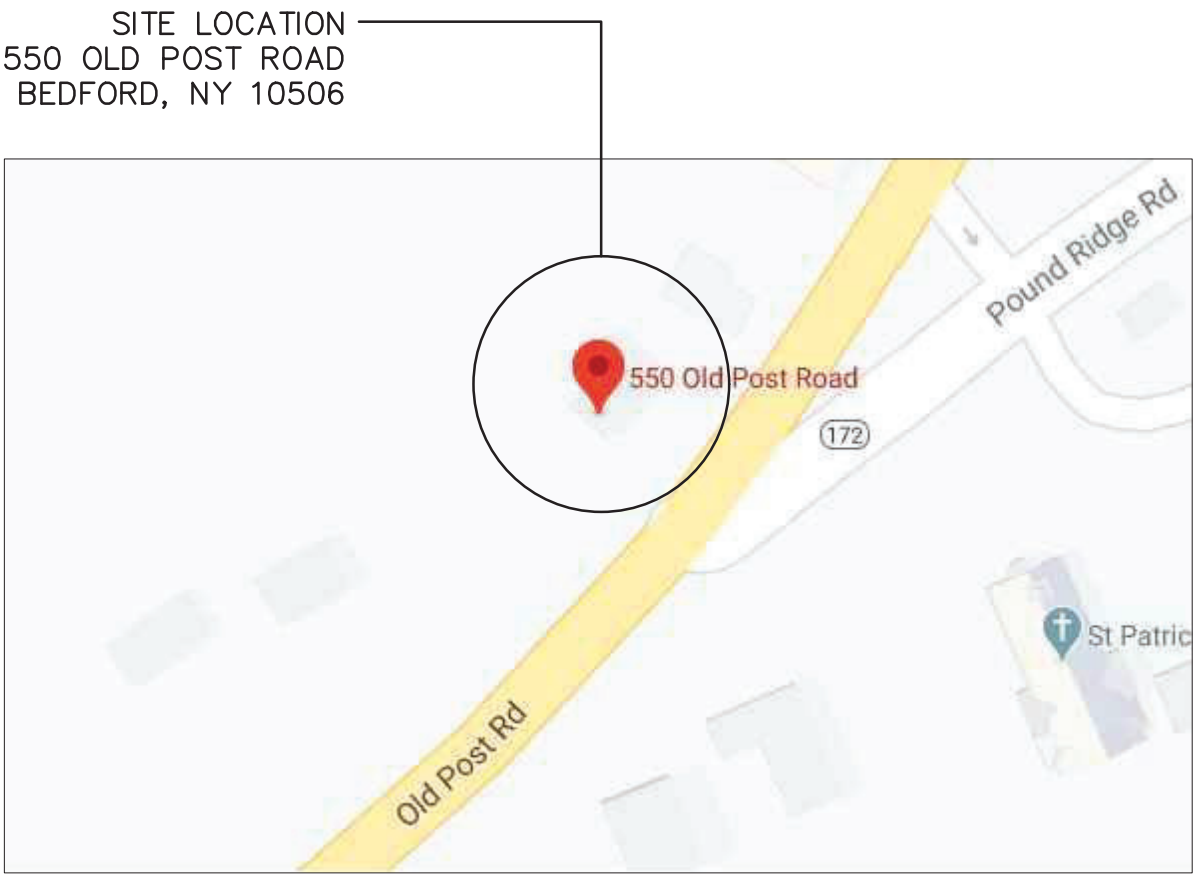
SYMBOLS AND ABBREVIATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION
— — —	CW	COLD WATER
—	AFF	ABOVE FINISHED FLOOR
—	BFP	BACK FLOW PREVENTER
—	DCV	DOUBLE CHECK VALVE
—	DN.	ELBOW DOWN
—	MAX.	MAXIMUM
—	MIN.	MINIMUM
—	PC	PLUMBING CONTRACTOR
—	RPZ	REDUCED PRESSURE ZONE
—	TYP	TYPICAL
▶	—	DIRECTION OF FLOW

BUILDING INFORMATION

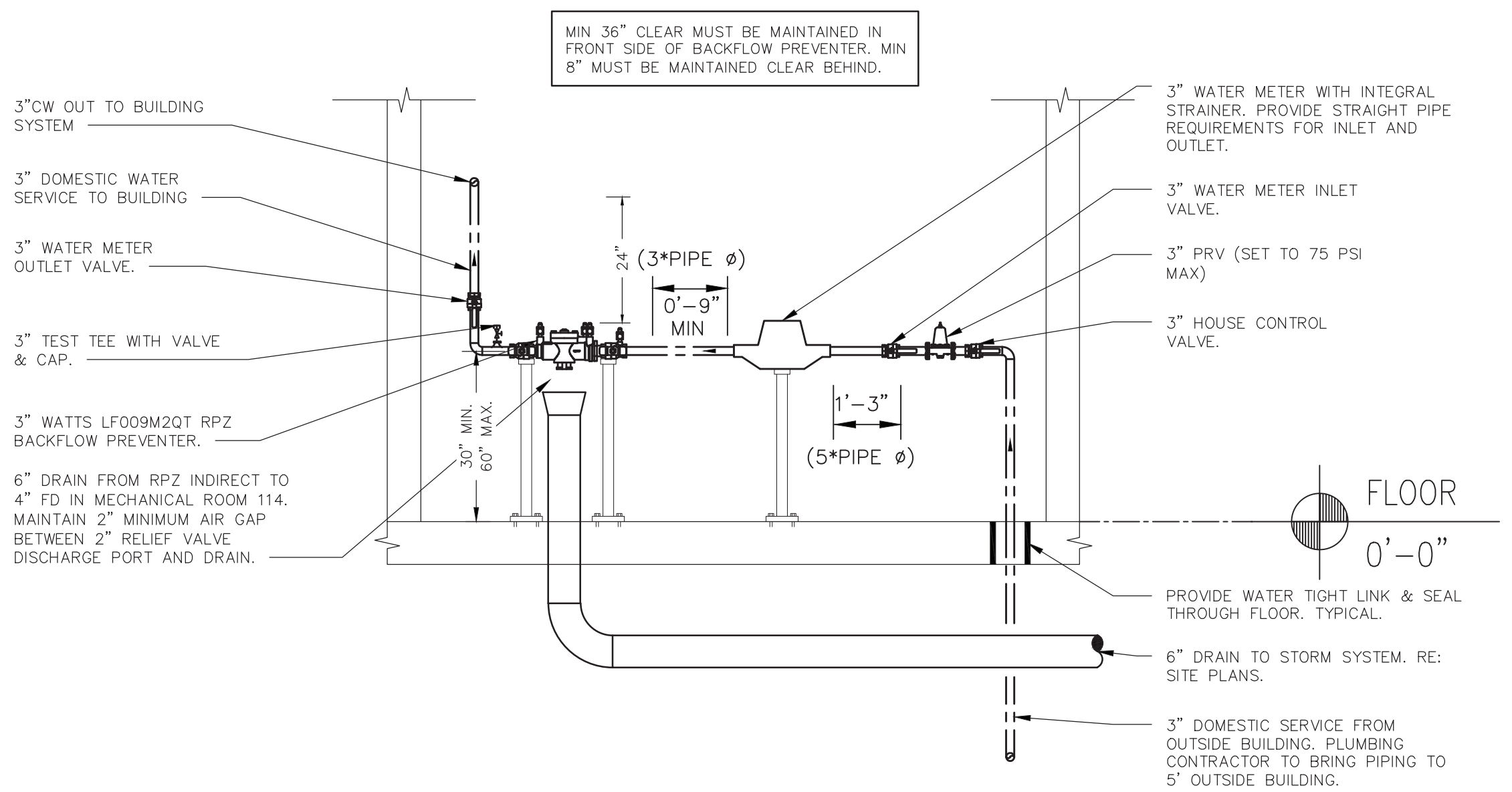
ADDRESS: 550 OLD POST ROAD, BEDFORD, NY 10506
 COUNTY: WESTCHESTER COUNTY



2 PLUMBING NEW WORK PART PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



1 SITE LOCATION MAP
 SCALE: NONE
 NORTH



3 PLUMBING ELEVATION A-A
 SCALE: 1/2" = 1'-0"

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01.15.21	ISSUED FOR BID

Project Title

Bedford Fire Headquarters

550 Old Post Road
 Bedford, NY 10506

Drawing Title

PLUMBING BACKFLOW PREVENTER PART PLAN

Project No.	NSPC001000
Date	03-21-20
Scale	AS NOTED
Drawing by	JRT

Checked by: JF/RS Drawing No.



P4.1

GENERAL NOTES:

1. ADEQUATE HEAT AND LIGHT SHALL BE PROVIDED IN LOCATIONS WHERE BACKFLOW PREVENTERS ARE TO BE INSTALLED.
2. THE CONTRACTOR SHALL USE ONLY AMERICAN MADE, UL/FM APPROVED VALVES.
3. NO WORK SHALL PROCEED WITHOUT WESTCHESTER COUNTY DEPARTMENT OF HEALTH APPROVAL.
4. BACKFLOW PREVENTER ARRANGEMENT SHALL NOT BE ALTERED WITHOUT PRIOR APPROVAL BY WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
5. BACKFLOW PREVENTION SHALL BE PROTECTED FROM THE HIGHEST FLOOD LEVEL.
6. BY-PASSES AROUND BACKFLOW PREVENTER ASSEMBLY SHALL NOT BE PERMITTED.
7. BACKFLOW PREVENTER DEVICE SHALL BE TESTED INITIALLY AND ANNUALLY BY A CERTIFIED AND LICENSED TESTER. AT THE TIME OF INITIAL TESTING PART A AND B OF DOH 1013 FORM MUST BE COMPLETED, TEST RESULTS (FORM DOH 1013) SHALL BE FORWARDED TO WESTCHESTER COUNTY DEPARTMENT OF HEALTH, OWNER AND ENGINEER.
8. THE BACKFLOW PREVENTER SHALL BE REBUILT EVERY FIVE YEARS.
9. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER IN THE TOWN OF BEDFORD AND ACCORDING TO DEPARTMENT OF PUBLIC WORKS REGULATIONS.
10. CONTRACTOR SHALL DISINFECT AND PRESSURE TEST BACKFLOW PREVENTER ASSEMBLY BEFORE PLACING IN SERVICE. DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA STANDARD C651-05 WITH THE EXCEPTION OF SECTION 4.4.2.
11. CONTRACTOR SHALL ADEQUATELY SUPPORT ALL PIPING AND DEVICES.
12. WHERE THE DISTANCE BETWEEN THE WATER METER AND THE BACKFLOW PREVENTER ASSEMBLY IS GREATER THAN 10'-0", ALL EXPOSED PIPING SHALL BE STENCILED "FEED LINE TO BACKFLOW PREVENTER - DO NOT TAP" AT 5'-0" INTERVALS.

EQUIPMENT NOTES:

1. THE 4"Ø FIRE PROTECTION BACKFLOW PREVENTER ASSEMBLY SHALL BE WATTS MODEL 709 OS&Y DCDA (LEAD FREE) BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F (CONSTANT) AND 140°F (INTERMITTENT). THE ASSEMBLY SHALL HAVE SILICON SEATS AND LEAD FREE CAST COPPER SILICON ALLOY VALVE BODIES.
2. DOMESTIC WATER METER SHALL BE 2" SIZE PROVIDED AND INSTALLED BY TOWN OF BEDFORD WATER DEPARTMENT. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION.

INSTALLATION NOTES:

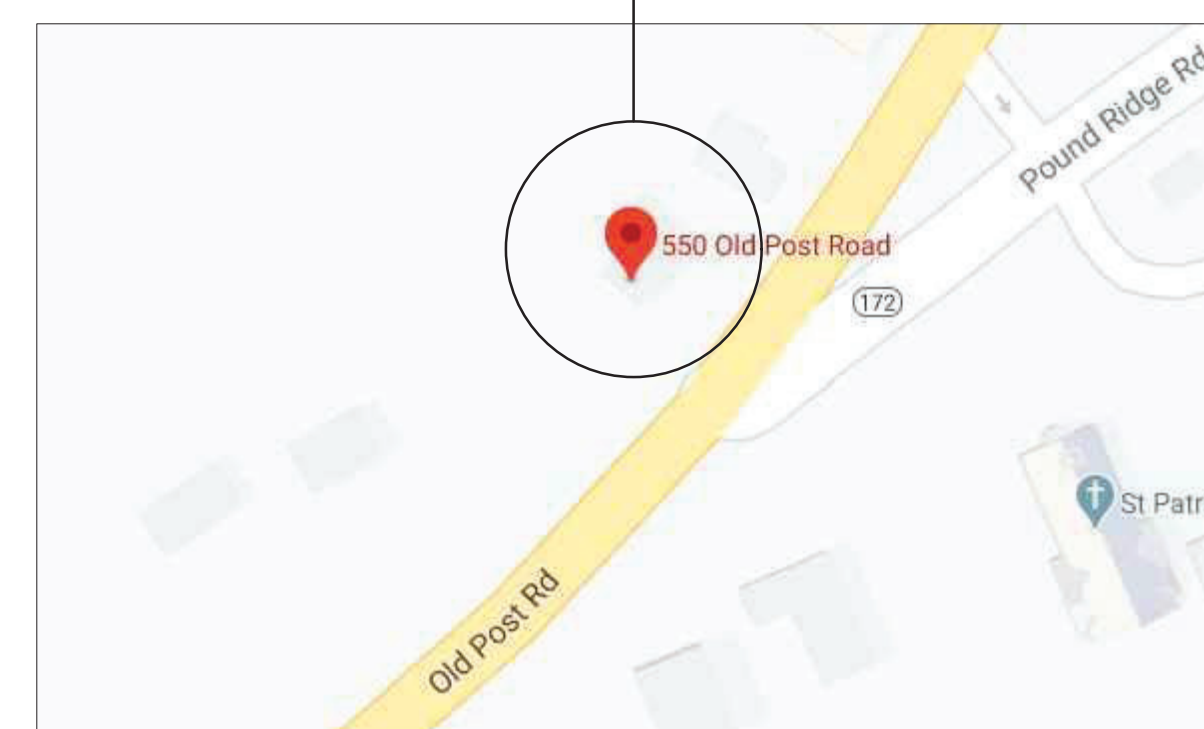
- A. STRAINERS ARE RECOMMENDED PRIOR TO EACH BACKFLOW DEVICE ON NON-FIRE FIGHTING LINES ONLY. NO STRAINER IS TO BE USED ON A FIRE LINE WITHOUT INSURANCE UNDERWRITER APPROVAL.
- B. ASSEMBLIES SHOULD BE SPECIFIED AND INSTALLED WITH MANUFACTURER SUPPLIED VALVES.
- C. WATER LINES SHOULD BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF DEVICE TO PREVENT DEBRIS FOULING THE DEVICE CHECK VALVES.
- D. DEVICES MUST BE MOUNTED HORIZONTALLY UNLESS APPROVED FOR VERTICAL INSTALLATION.
- E. ASSEMBLIES SHOULD NOT BE INSTALLED IN AREAS CONTAINING CORROSIVE OR TOXIC GASES WHICH COULD RENDER THE DEVICE INOPERABLE.

NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH WESTCHESTER COUNTY DEPARTMENT OF HEALTH REQUIREMENTS.

NO SUBSTITUTIONS PERMITTED HERON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS DRAWING THAT ARE MARKED WITH THE ORIGINAL SEAL AND SIGNATURE OF THE ENGINEER SHALL BE CONSIDERED AS TRUE VALID COPIES.

SITE LOCATION
550 OLD POST ROAD
BEDFORD, NY 10506



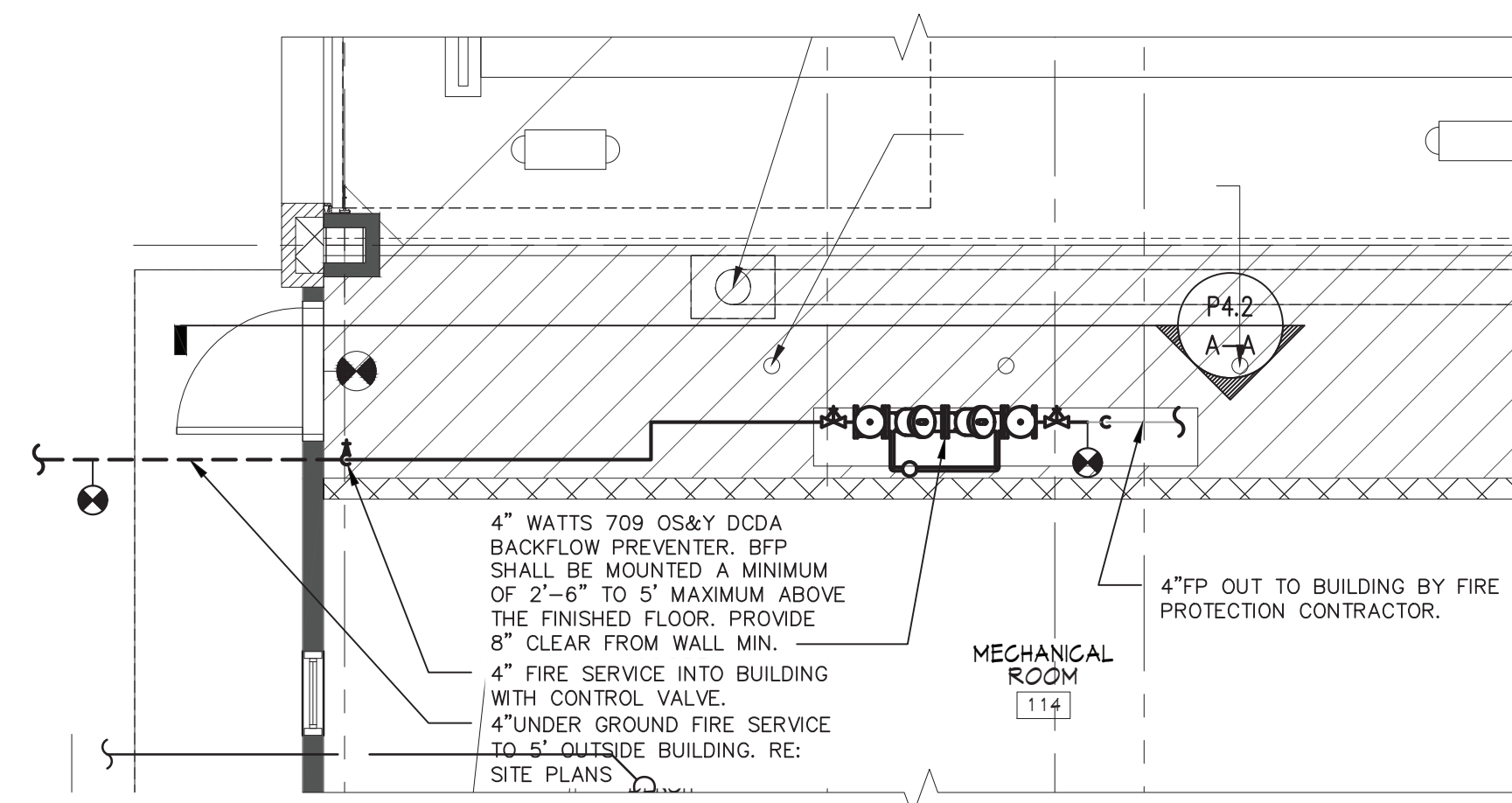
1 SITE LOCATION MAP
SCALE: NONE

SYMBOLS AND ABBREVIATIONS

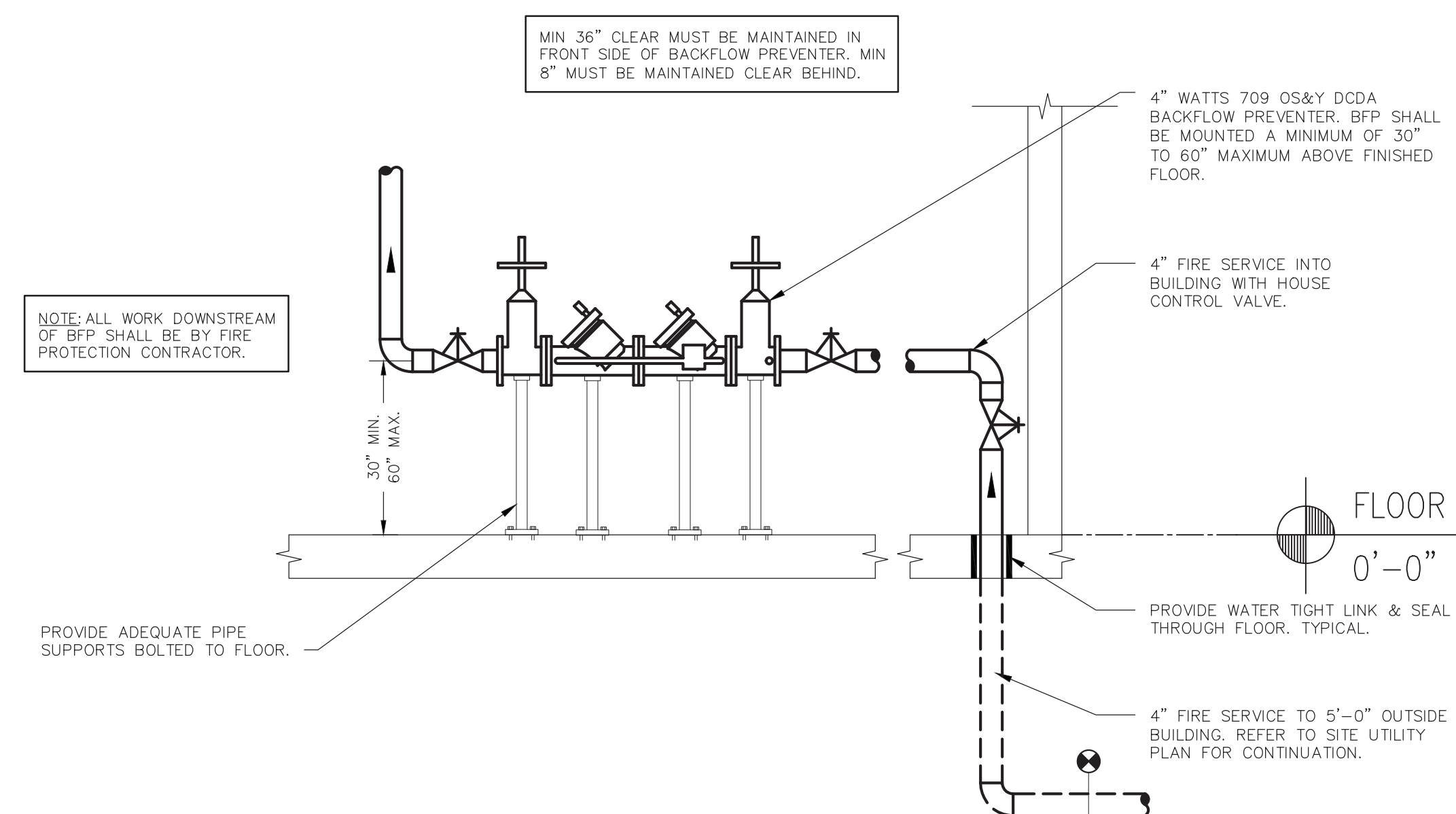
SYMBOL	ABBREVIATION	DESCRIPTION
— — — —	CW	COLD WATER
—	AFF	ABOVE FINISHED FLOOR
—	BFP	BACK FLOW PREVENTER
—	DCV	DOUBLE CHECK VALVE
—	DN.	ELBOW DOWN
—	MAX.	MAXIMUM
—	MIN.	MINIMUM
—	PC	PLUMBING CONTRACTOR
—	RPZ	REDUCED PRESSURE ZONE
—	TYP	TYPICAL
▶	—	DIRECTION OF FLOW

BUILDING INFORMATION

ADDRESS: 550 OLD POST ROAD, BEDFORD, NY 10506
COUNTY: WESTCHESTER COUNTY



2 PLUMBING NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"



3 PLUMBING ELEVATION A-A
SCALE: 1/2" = 1'-0"

Sullivan Architecture, P.C.

31 Mamaroneck Avenue
White Plains, New York 10601
914-761-6006 (F) 914-761-4919

Owner: **Bedford Village Fire District**
34 Village Green
Bedford, NY 10506

MEP Engineer: **OLA Consulting Engineers**

50 Broadway, Hawthorne, NY 10532
8 West 38th St, Suite 501, New York, NY
Tel: 914-747-2800

Date Issue

03.10.20	MEETING
03.27.20	DESIGN DEVELOPMENT
05.07.20	PROGRESS
05.08.20	CD PROGRESS SET
05.28.20	CD PROGRESS SET
06.30.20	CD REVIEW SET
09.01.20	CONSTRUCTION PROGRESS
09.15.20	ICC SUBMISSION
01.15.21	ISSUED FOR BID

Project Title

Bedford Fire Headquarters

550 Old Post Road
Bedford, NY 10506

Drawing Title
PLUMBING BACKFLOW PREVENTOR PART PLAN

Project No. NSPC001000
Date 03-21-20
Scale AS NOTED
Drawing by JRT

Checked by JF/RS
Drawing No.



P4.2

Owner: Bedford Village
Fire District
34 Village Green
Bedford, NY 10506

MEP Engineer: OLA Consulting Engineers

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8 West 38th St., Suite 501, New York, NY
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Bedford
Fire
Headquarters

550 Old Post Road
Bedford, NY 10506

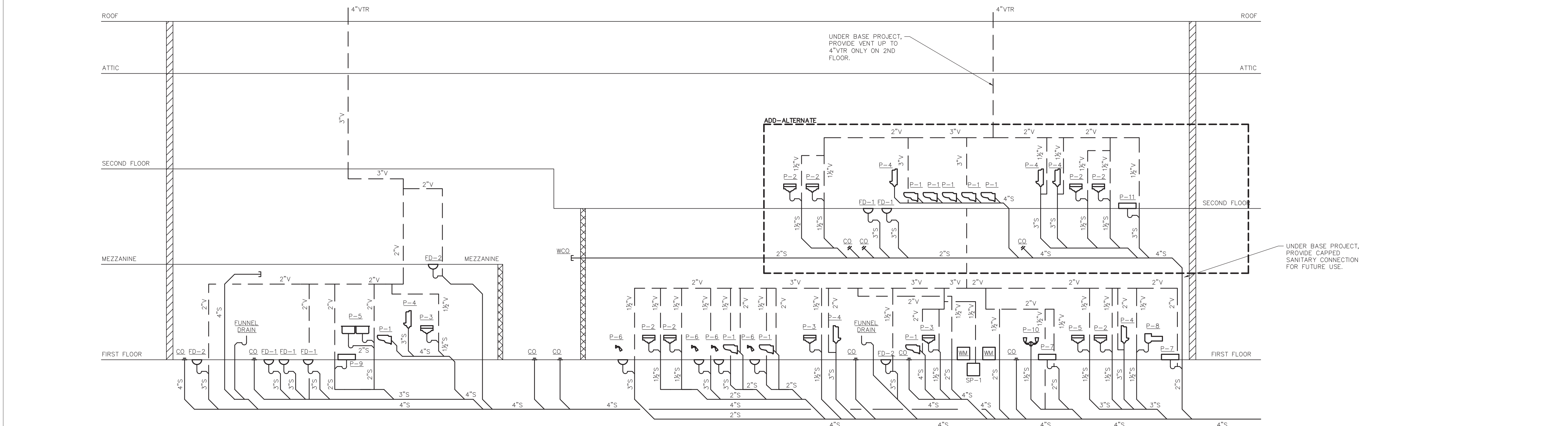
Drawing Title
PLUMBING RISER
DIAGRAMS

Project No. NSPC0010.00
Date 03-21-20
Scale AS NOTED
Drawing by JRT

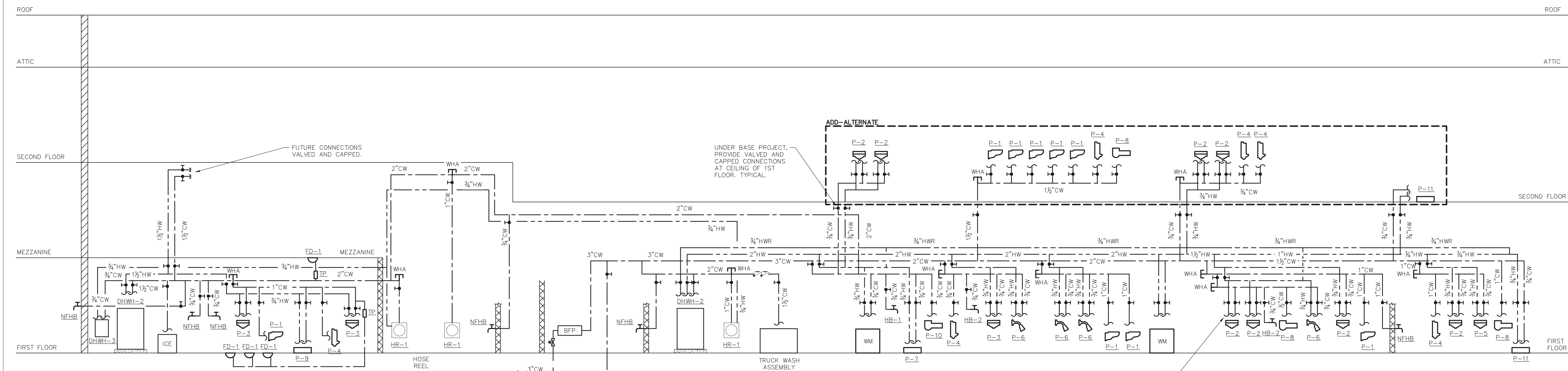
Checked by JF/R5



Drawing No. P5.1



2 PLUMBING SANITARY/VENT RISER DIAGRAM
SCALE: NONE



1 PLUMBING DOMESTIC WATER RISER DIAGRAM
SCALE: NONE

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Bedford Fire Headquarters

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Bedford, NY 10506

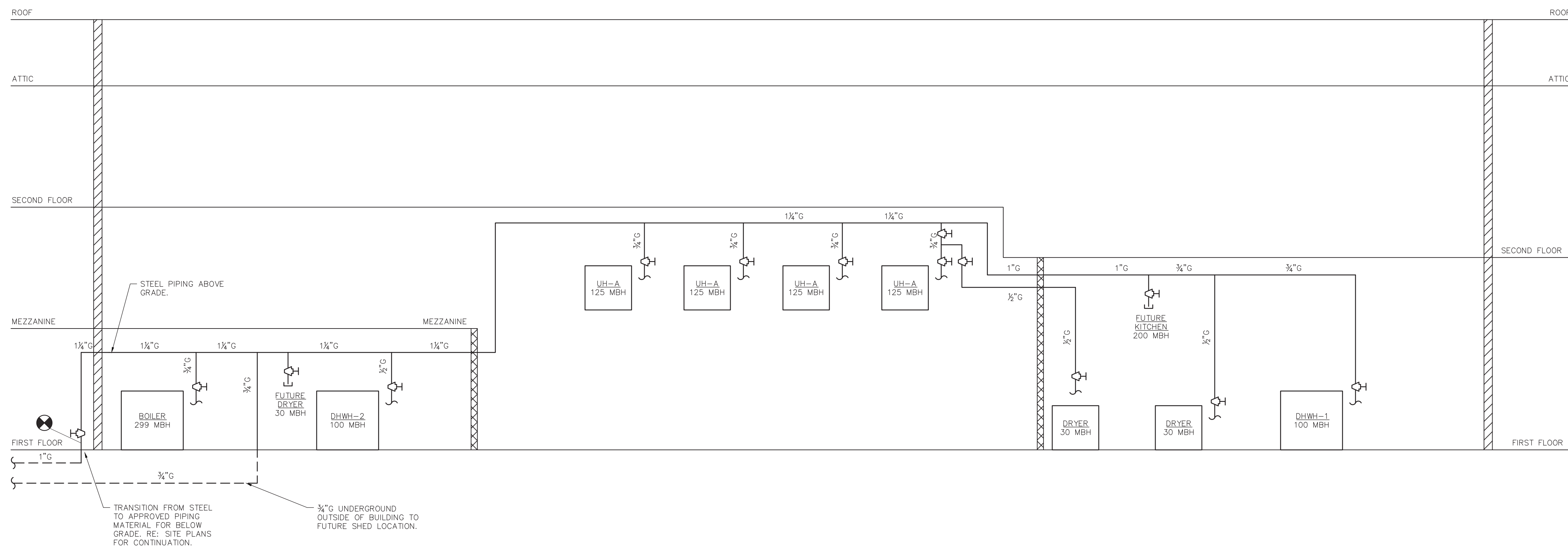
Drawing Title
PLUMBING GAS RISER DIAGRAM

Project No. NSPC0010.00
Date 03-21-20
Scale AS NOTED
Drawing by JRT

Checked by JF/R5
Drawing No.



P5.2



1 PLUMBING PROPANE GAS RISER DIAGRAM
SCALE: NONE

PLUMBING DRAINAGE SPECIALTIES SCHEDULE				
TAG	SYMBOLS		FIXTURES	DESCRIPTION
	PLAN	ELEVATION		
CO			CLEANOUT	WALL CLEANOUT WITH CLEANOUT TEE AND CHROME PLATED BRONZE SQUARE ACCESS COVER AND FRAME. WADE #W-8480 OR APPROVED EQUAL.
CODP			CLEANOUT DECKPLATE	FLOOR CLEANOUT WITH ADJUSTABLE HEAD, ANCHOR FLANGE, CUT-OFF SECTIONS AND ROUND SCORATED NICKEL-BRONZE TOP. WADE #W-6000 OR APPROVED EQUAL. PROVIDE HEAVY DUTY CAST IRON TOP FOR MECHANICAL ROOMS.
FD-1			FLOOR DRAIN	TOILET ROOMS AND GENERAL USE AREAS: WATTS #FD-100-M WITH 6"x 6" NICKEL-BRONZE TOP, CAST IRON BODY, & TRAP PRIMER TAPPING. TRAP PRIMER SHALL BE WATTS MODEL LFTP300.
FD-2			FLOOR DRAIN	MECHANICAL EQUIPMENT ROOMS: WATTS MODEL FD-320-Y EPOXY COATED CAST IRON AREA DRAIN WITH ANCHOR FLANGE, WEEPHOLES, 8" DIAMETER FIXED TOP WITH DUCTILE IRON GRATE, SEDIMENT BUCKET, TRAP SEAL, AND NO HUB (STANDARD) 3" OUTLET. PROVIDE TRAP SEAL SIMILAR TO ZURN Z1072-ZSHIELD. TRAP PRIMER SHALL BE WATTS MODEL LFTP300.
TD-1		-	TRENCH DRAIN	ZURN ZFV806-U4-GDC-DB 6" WIDE REVEAL FIBER REINFORCED VINYLESTER TRENCH DRAIN SYSTEM WITH MECHANICAL CONNECTIONS BETWEEN SECTIONS, CLASS C GALVANIZED DUCTILE SLOTTED GRATE, 4" NO-HUB BOTTOM OUTLET, AND BOTTOM DOME STRAINER.
RD-1			ROOF DRAIN	ZURN MODEL ZA-100 WITH DUCO CAST IRON BODY WITH SUMP, REMOVABLE CAST IRON DOME STRAINER, MEMBRANE FLANGE AND MEMBRANE CLAMP WITH INTEGRAL GRAVEL STOP, ADJUSTABLE UNDER DECK CLAMP, ROOF SUMP RECEIVER, WATERPROOFING FLANGE, ADJUSTABLE EXTENSION SLEEVE FOR ROOF INSULATION. OUTLET SIZE TO MATCH EXISTING, COORDINATE IN FIELD. COORDINATE WITH ROOFING TYPE, REFER TO ARCHITECTURAL SPECIFICATIONS.

NOTES:
1.) REFER TO ARCHITECT'S DRAWINGS FOR QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

PLUMBING WATER SPECIALTIES SCHEDULE				
TAG	SYMBOLS		FIXTURES	DESCRIPTION
	PLAN	ELEVATION		
WHA		-	WATER HAMMER ARRESTOR	TYPE 650 SERIES: SIOUX CHIEF "HYDRARESTER" PISTON-TYPE, WITH TYPE L COPPER TUBE CONSTRUCTION, PRESSURIZED AIR CUSHION. REFER TO MANUFACTURER'S RECOMMENDED SIZING. RE: RISER.
HB-1			HOSE BIB	IN UNFINISHED SPACES, WASHDOWN FAUCET SHALL BE CAST BRASS HOSE BIBS WITH SEPARATE TAMPER PROOF VACUUM BREAKER WITH 3/4" MALE INLET AND 3/8" HOSE THREAD OUTLET. WATTS SERIES SC8 OR ACCEPTABLE EQUIVALENT.
HB-2			HOSE BIB	IN FINISHED AREAS, WASHDOWN FAUCET SHALL BE POLISHED CHROME-PLATED WALL FAUCET WITH WALL FLANGE, 3/4" INLET, 3/8" HOSE THREAD OUTLET AND REMOVABLE LOOSE KEY T-HANDLE. CHICAGO #293-6 WITH #E27 VACUUM BREAKER OR ACCEPTABLE EQUIVALENT.
NFHB			NON-FREEZE HOSE BIB	CAST BRASS, THREADED, NON-FREEZE, HEAVY-DUTY HYDRANT WITH NIKALOY BOX AND LOCKING COVER, BRASS OPERATING PARTS, 3/4" HPT HOSE OUTLET, 3/4" IPS OUTSIDE, ELBOW ADAPTER, "T" HANDLE KEY, AND INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER. WADE #8600. PIPING SERVING WH-1 TO BE ROUTED ON IN INTERIOR WALLS.
HR-1		-	HOSE REEL - WATER	HANNAY REELS SERIES N800 MODEL # N818-25-26-10-5B, SPRING REWIND, 3/4" HOSE, 70' LENGTH, 1" FEMALE NPT INLET AND OUTLET CONNECTIONS, STANDARD PRESSURE UP TO 2,000 PSI, STANDARD TEMPERATURE RANGE 40F TO 250F. PROVIDE ADJUSTABLE THERMOSTATIC MIXING VALVE FOR REELS WITH HOT WATER.

PLUMBING SPECIALTIES SCHEDULE				
TAG	SYMBOLS		FIXTURES	DESCRIPTION
	PLAN	ELEVATION		
HR-2		-	HOSE REEL - AIR	HANNAY REELS SERIES N700 MODEL # N716-17-18-8L, SPRING REWIND, SIZED FOR 1/2" THROUGH 1/2" HOSE, 50' LENGTH, 1/2" FEMALE NPT INLET AND OUTLET CONNECTIONS, STANDARD PRESSURE UP TO 3,000 PSI, STANDARD TEMPERATURE RANGE -60F TO 250F.

EQUIPMENT NOTES	
1.	<u>DOMESTIC HOT WATER HEATER (DHW-1&2)</u> : SHALL BE BASED ON AO SMITH MODEL BTX-100, 50 GALLON CAPACITY, RATED FOR 115 GPH @ 100 DEG RISE, GAS FIRED, 120V/1Ø/60 Hz, SINGLE POINT ELECTRICAL CONNECTION, 28"Øx65"HIGH. PROVIDE DISCONNECT SWITCH.
2.	<u>DOMESTIC HOT WATER HEATER (DHW-3)</u> : SHALL BE BASED ON RINNAI SENSEI MODEL RU199I, GAS FIRED CONDENSING WATER HEATER, RATED FOR 0.29-9.8 GPM, 199 BTU INPUT, 120V/1PH/60Hz, MCA=4 AMPS, MOCF = 10 AMPS. PROVIDE PROPANE CONVERSION KIT, CONDENSATE NEUTRALIZING KIT.
3.	<u>HOT WATER CIRCULATION PUMP (HWCP-1)</u> : SHALL BE BASED ON BELL & GOSSETT MODEL NBF-33. ELECTRICAL CHARACTERISTICS SHALL BE 120V/SINGLE PHASE/60 Hz, 125 WATTS, 110 AMPS AND 2950 RPM AT 5 GPM AND 10 FEET OF HEAD. PUMP SHALL HAVE LEAD-FREE BRONZE BODY. PUMP SHALL BE PROVIDED WITH MOTOR STARTER AND DISCONNECT SWITCH.
4.	<u>EXPANSION TANK</u> : SHALL BE BASED ON AMTROL EXTROL MODEL AX-40V-DD WITH 23 GALLON TANK VOLUME AND 11.3 GALLON ACCEPTANCE VOLUME. EXPANSION TANK SHALL BE ASME RATED WITH 125 PSIG WORKING PRESSURE AND 240F OPERATING TEMPERATURE. TANK SHALL BE CONSTRUCTED OF CARBON STEEL SHELL, HEAVY DUTY BUTYL DIAPHRAGM AND SHALL HAVE RED OXIDE PRIME COAT. PROVIDE FACTORY SUPPORT SADDLES.
5.	<u>ELEVATOR SUMP PUMP SP-1</u> : SHALL BE BASED ON STANCOR MODEL SE50 PUMP, 0.5 HP, 115V-1 PHASE-60 HERTZ, 5 FLA, 50 GPM @ 22 FEET HEAD AND 3600 RPM. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.

PLUMBING FIXTURE SCHEDULE								
TAG	SYMBOLS		FIXTURES	PLUMBING CONNECTIONS				DESCRIPTION
	PLAN	ELEVATION		WASTE	VENT	COLD WATER	HOT WATER	
P-1			WATER CLOSET WALL-MOUNT	4"	2"	1"	-	MANUFACTURER: AMERICAN STANDARD MODEL: 3351.511 AF WALL MILLENNIUM FLOWISE 1.1 GPF FLUSHOMETER TOILET SYSTEM, EXPOSED TOP SPUD, SELECTRONIC FLUSH VALVE COLOR/FINISH: WHITE NOTES: VITREOUS CHINA, HIGH EFFICIENCY, LOW CONSUMPTION 1.1 GPF, 2-1/8" FULLY GLAZED TRAPWAY, TRIP LEVEL SHALL BE AWAY FROM WALL. COORDINATE WITH PLANS. SEAT: AMERICAN STANDARD 5901.100 HEAVY DUTY TOILET SEAT WITH EVERCLEAN FLUSH VALVE; MODEL 606B.111 SELECTRONIC FLUSH VALVE, HARD WIRED, PROXIMITY SENSING HANDS-FREE OPERATION, ADA COMPLIANT, RIGHT HAND/LEFT HAND ORIENTATION TO BE VERIFIED IN FIELD. COORDINATE WITH ELECTRICAL CONTRACTOR FOR IN WALL ROUGHING OF POWER SUPPLY WIRING, TRANSFORMERS, ETC. CARRIER FITTING: ZURN ZRN1201-NL4 NARROW WALL WITH 8-13/16" FRONT TO BACK EZCARRY ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET CARRIER SYSTEM. RIGHT HAND/LEFT HAND INLET TO BE VERIFIED IN FIELD, RATED UP TO 500 LB CAPACITY.
P-2			LAVATORY - COUNTER MOUNTED	1 1/2"	1 1/2"	3/4"	3/4"	MANUFACTURER: AMERICAN STANDARD MODEL: 0476.028 AQUALYN COUNTERTOP SINK - 16"WIDE, 10" FRONT TO BACK, 5-5/8" DEEP COLOR/FINISH: TO BE COORDINATED WITH ARCHITECT NOTES: ADA COMPLIANT, VITREOUS CHINA, FRONT OVERFLOW, OVAL COUNTERTOP SINK, 1-1/4" TRAP, FAUCET HOLES ON 4" CENTERS, PROVIDE MOUNTING KIT AS REQUIRED FOR INSTALLATION. FAUCET: AMERICAN STANDARD 605B.205, INNSBROOK SELECTRONIC CENTERSET FAUCET; CAST BRASS BODY, 0.5 GPM MAX, MULTI-LAMINAR SPRAY, THERMOSTATIC MIXING VALVE MODEL 605XTMV1070, HARD-WIRED AC POWER KIT MODEL PK00.HAC, LEAD FREE, ADA COMPLIANT. COORDINATE WITH ELECTRICAL CONTRACTOR FOR IN WALL ROUGHING OF POWER SUPPLY WIRING, TRANSFORMERS, ETC.
P-3			LAVATORY - WALL HUNG	1 1/2"	1 1/2"	3/4"	3/4"	MANUFACTURER: AMERICAN STANDARD MODEL: MURRO UNIVERSAL DESIGN 0954.004EC 21 1/2"x20 1/2" WALL HUNG LAVATORY WITH 4" CENTER FAUCET HOLES. COLOR/FINISH: TO BE COORDINATED WITH ARCHITECT NOTES: ADA COMPLIANT, VITREOUS CHINA, REAR OVERFLOW, 1-1/4" TRAP, PROVIDE HANGER PLATE AS REQUIRED FOR INSTALLATION. PROVIDE MODEL 0059.020EC SHROUD. FAUCET: AMERICAN STANDARD 605B.205, INNSBROOK SELECTRONIC CENTERSET FAUCET; CAST BRASS BODY, 0.5 GPM MAX, MULTI-LAMINAR SPRAY, THERMOSTATIC MIXING VALVE MODEL 605XTMV1070, HARD-WIRED AC POWER KIT MODEL PK00.HAC, LEAD FREE, ADA COMPLIANT. COORDINATE WITH ELECTRICAL CONTRACTOR FOR IN WALL ROUGHING OF POWER SUPPLY WIRING, TRANSFORMERS, ETC.
P-4			URINAL	3"	2"	3/4"	-	MANUFACTURER: AMERICAN STANDARD MODEL: ALLBROOK FLOWISE HIGH EFFICIENCY URINAL SYSTEM #6550.510, 0.5 GPF EXPOSED TOP SPUD URINAL AND SELECTRONIC URINAL FLUSH VALVE, VITREOUS CHINA, 3/4" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE, PROVIDE CONCEALED WALL CARRIER AND SUPPORT, ADA COMPLIANT. FLUSH VALVE: 0.5 GPF EXPOSED SENSOR-OPERATED FOR 3/4" TOP SPUD URINALS. HARD-WIRED AC POWER, 20 PSI (FLOWING), 80 PSI (STATIC) OPERATING PRESSURE. 10 GPM FLOW REQUIREMENT. COORDINATE WITH ELECTRICAL CONTRACTOR FOR IN WALL ROUGHING OF POWER SUPPLY WIRING, TRANSFORMERS, ETC.
P-5			PANTRY SINK	2"	1 1/2"	3/4"	3/4"	MANUFACTURER: AMERICAN STANDARD MODEL: 18CR.332232C.075 MONTVALE STAINLESS STEEL DOUBLE BOWL DUAL MOUNT SINK COLOR/FINISH: TO BE COORDINATED WITH ARCHITECT NOTES: 18 GA STAINLESS STEEL CONSTRUCTION, 15 1/2" x 18" x 9" LARGE BOWL DEPTH, 12 1/2" x 15 1/2" x 7 1/2" SMALL BOWL DEPTH, SINGLE FAUCET HOLE, REAR CENTER 3-1/2" DRAIN OPENINGS, PROVIDE ALL REQUIRED MOUNTING HARDWARE. FAUCET: MANUFACTURER: AMERICAN STANDARD MODEL: SINGLE HANDLE SWIVEL DECK MOUNT, 2-FUNCTION PULL-DOWN SPRAYER FINISH: STAINLESS STEEL NOTES: ADA COMPLIANT, LEAD FREE, ROTATING SPOUT, SPRAY AND STREAM FUNCTIONS, 1.8 GPM FLOW RATE @ 60 PSI, CERAMIC DISC CARTRIDGE.
P-6			SHOWER	2"	1 1/2"	3/4"	3/4"	SHOWER KIT: MANUFACTURER: AMERICAN STANDARD MODEL: 1662SG.221 COMMERCIAL SHOWER SYSTEM KIT NOTES: ADA COMPLIANT, POLISHED CHROME FINISH, 36" METAL SLIDEBAR, 59" METAL HOSE, 1.5 GPM HANDSHOWER. SHOWER VALVE TRIM: MANUFACTURER: AMERICAN STANDARD MODEL: 1675.500.002 NOTES: ADA COMPLIANT, BRASS CONSTRUCTION, LEVER HANDLE, PRESSURE BALANCING VALVE CARTRIDGE, POLISHED CHROME FINISH, INCLUDE ALL MOUNTING ADAPTERS AND ROUGH-IN HARDWARE. DRAIN: WADE MODEL 1100-A WITH 5" ROUND ADJUSTABLE NIKEL-BRASS STRAINER, CAST IRON BODY, CAST IRON DRAINAGE FLANGE, FLASHING CLAMP, AND SEDIMENT BUCKET.
P-7			UTILITY SINK	3"	2"	3/4"	3/4"	UTILITY SINK: MANUFACTURER: ELKAY MODEL: LRS3322 LUSTERTONE CLASSIC STAINLESS STEEL SINGLE BOWL DROP-IN SINK COLOR/FINISH: LUSTROUS SATIN FINISH NOTES: 18 GA STAINLESS STEEL CONSTRUCTION, 33" x 22" x 7 7/8" BOWL DEPTH, FOUR FAUCET HOLES, CENTER 3-1/2" DRAIN OPENING, BOTTOM PAD SOUND GUARD, LESS BOTTOM GRID. PROVIDE ALL REQUIRED MOUNTING HARDWARE. FAUCET: MANUFACTURER: AMERICAN STANDARD MODEL: 6409.171 TOP MOUNT FAUCET WITH 8" GOOSENECK SPOUT AND PULL-OUT SPRAYER FINISH: POLISHED CHROME NOTES: ADA COMPLIANT, SWIVEL SPOUT, 1.5 GPM FLOW RATE @ 60 PSI, CERAMIC DISC CARTRIDGE, VANDAL RESISTANT WRIST BLADES, 1/2" MALE THREADED INLETS.
P-8			BOTTLE FILL STATION	1 1/2"	1 1/2"	1/2"	-	ELKAY MODEL LZWSBK, WALL MOUNT BOTTLE FILING STATION, FILTERED & REFRIGERATED WATER, COOLER RATED FOR 8 GPH. 120V/1Hz/60PH, 1 AMP FLA, 370 WATTS. MECHANICAL BOTTLE FILLER BUTTON ACTIVATION, STAINLESS STEEL FINISH, GREEN TICKER, LAMINAR FLOW, NO BUBBLER.
P-9			MOP SINK	2"	1 1/2"	3/4"	3/4"	MOP SINK: FIAT MODEL MSB2424, 24" X 24" ONE PIECE MOLDED STONE 10" DEEP MOP BASIN WITH STAINLESS STEEL DRAIN BODY AND COMBINATION DOME STRAINER / LINT BASKET. FAUCET: KROWNE 8" CENTER WALL MOUNTED FAUCET WITH PRE-RINSE MODEL 18-706L. FAUCET SHALL BE CHROME PLATED BRASS WITH 1/2 TURN CERAMIC CARTRIDGE VALVES WITH INTERNAL CHECK, LEVER HANDLES, HEAVY DUTY FLANGES, 1.8 GPM FAUCET SPOUT AND 1.15 GPM SPRAY HEAD.
P-10			EYE WASH / SHOWER	2"	1-1/2"	3/4"	3/4"	BASED ON ACONR SAFETY, BARRIER FREE COMBINATION STATION EYE/FACE WASH AND SHOWERHEAD, MODEL S2340-AS-BF. EYE/FACE WASH SHALL HAVE TWO SPRAY HEADS. EACH HEAD HAS A "FLIP TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW. PROVIDE THERMOSTATIC MIXING VALVE MODEL ET71-1-BVS-OTG. PROVIDE OUTLET TEMPERATURE COMPLYING WITH ANSI Z358.1.
P-11			SERVICE SINK	2"	2"	3/4"	3/4"	SERVICE SINK: ELKAY MODEL ESSB2520C WALL HUNG SERVICE SINK KIT. 304 STAINLESS STEEL, BUFFED SATIN FINISH, 14 GAGE STEEL, 25" x 19 1/2" x 24", 3 1/2" DRAIN. FAUCET: ELKAY MODEL LK940BR03L2H, 8" CENTERSET WALL MOUNT FAUCET WITH 3" BUKET HOOK SPOUT, 2" LEVER HANDLES.

NOTES:
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE FINISHES, QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

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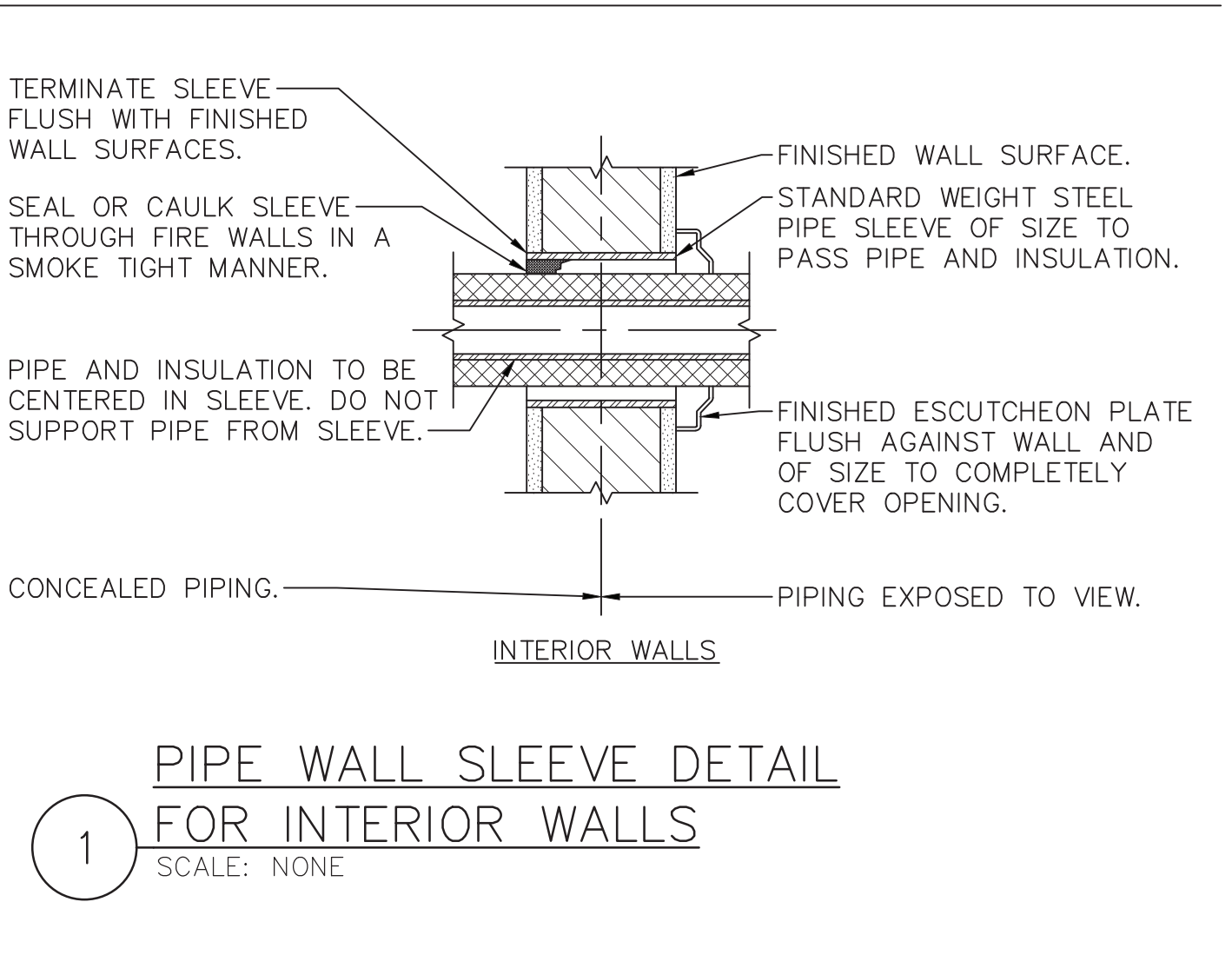
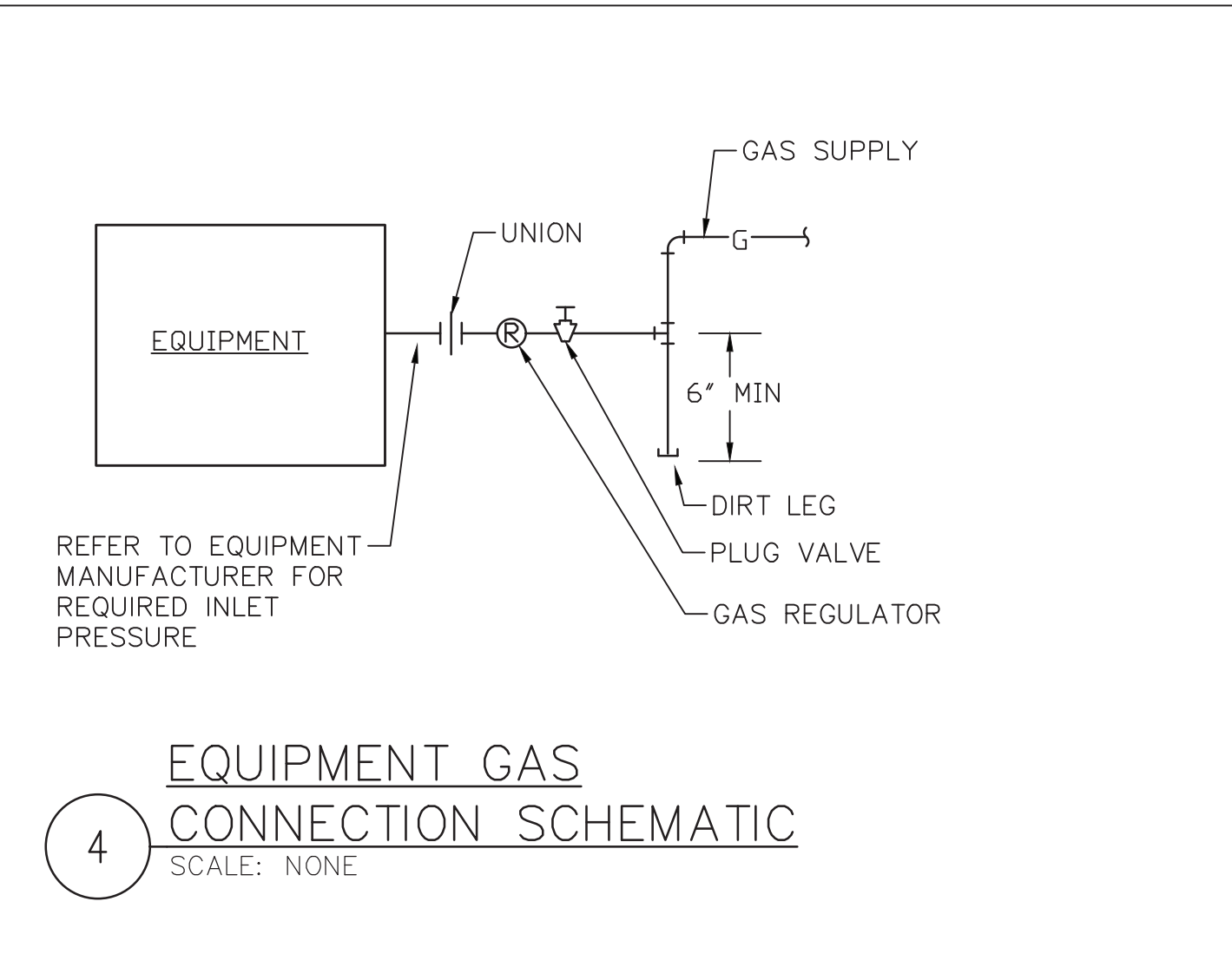
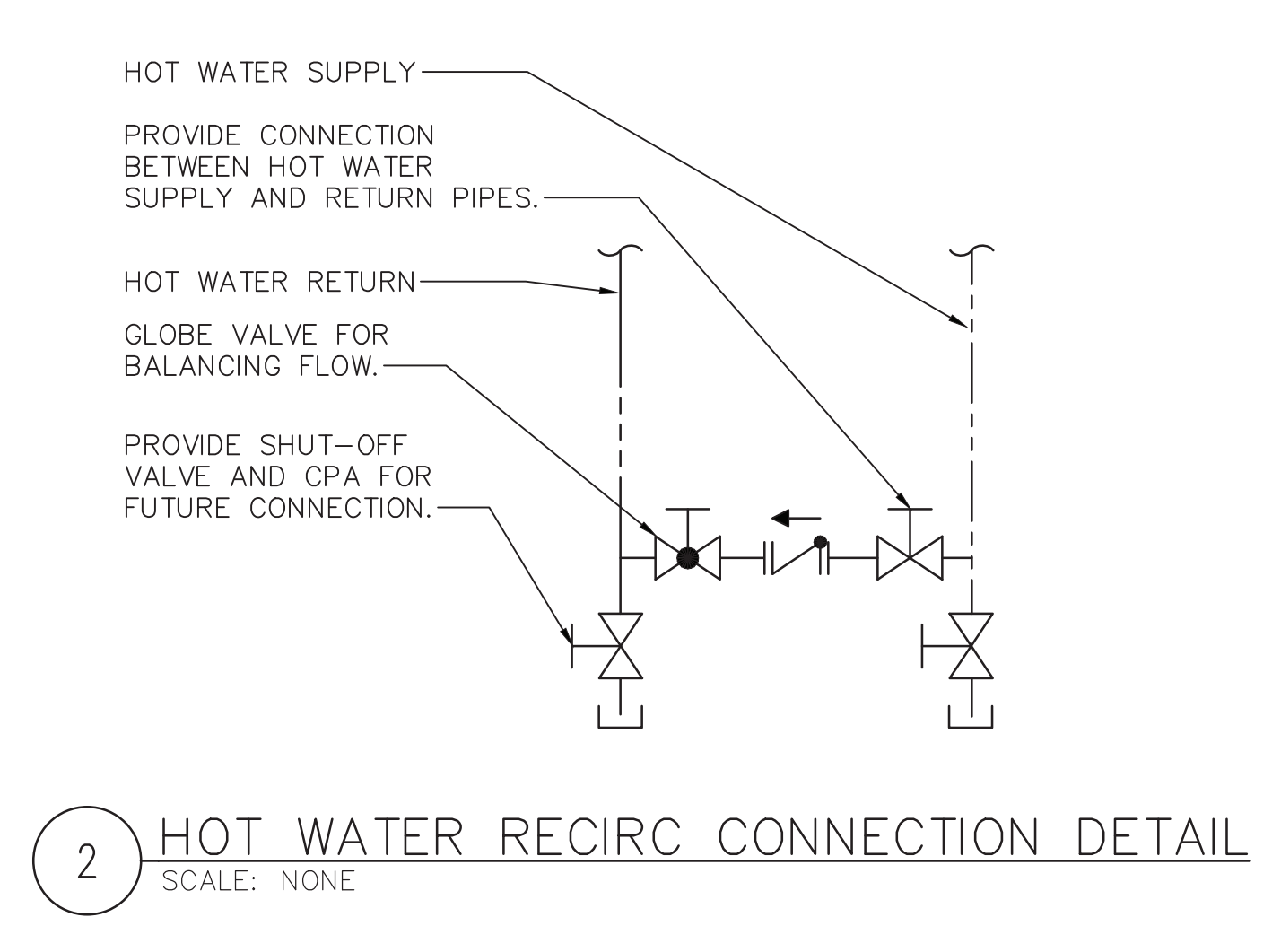
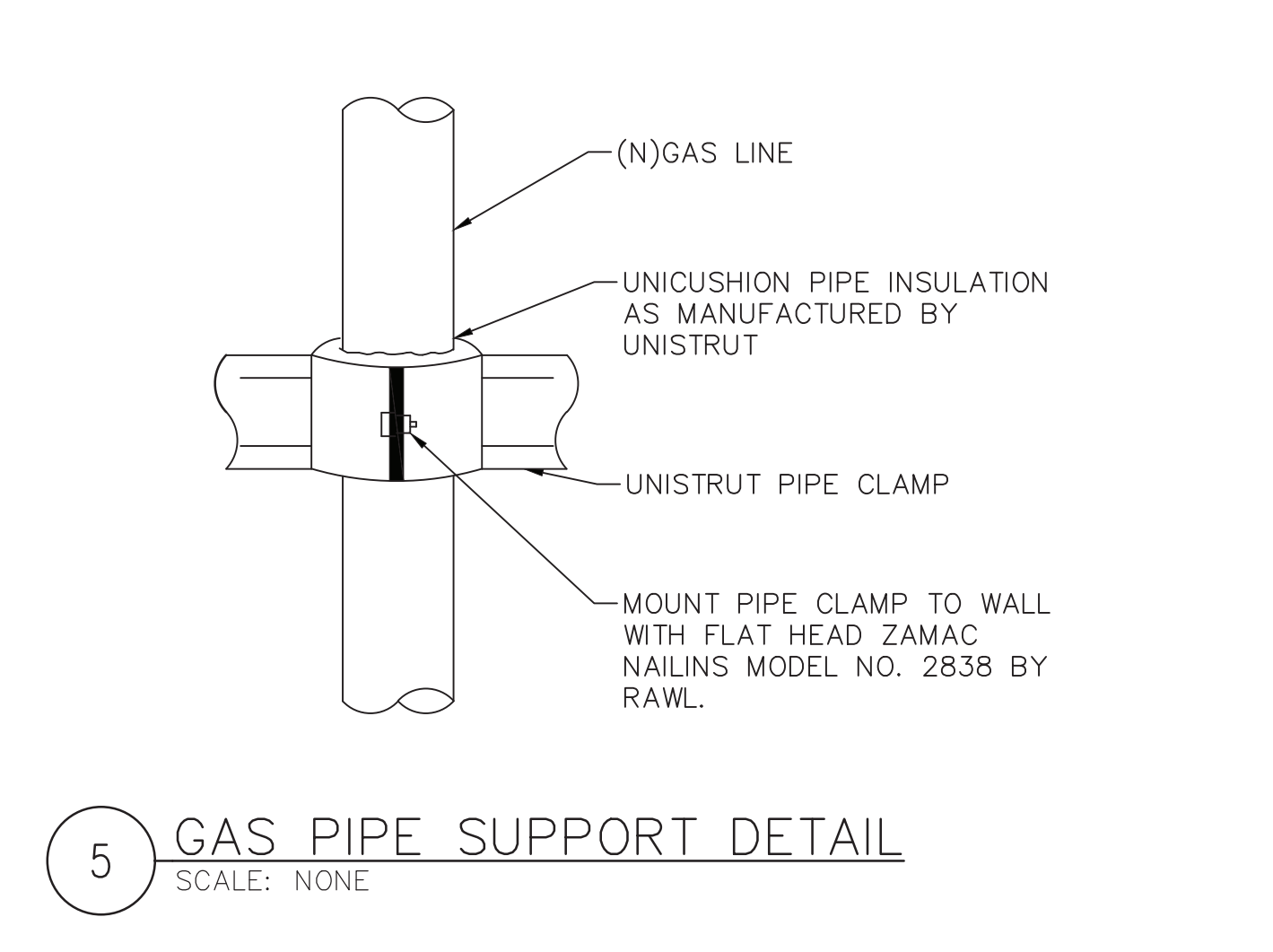
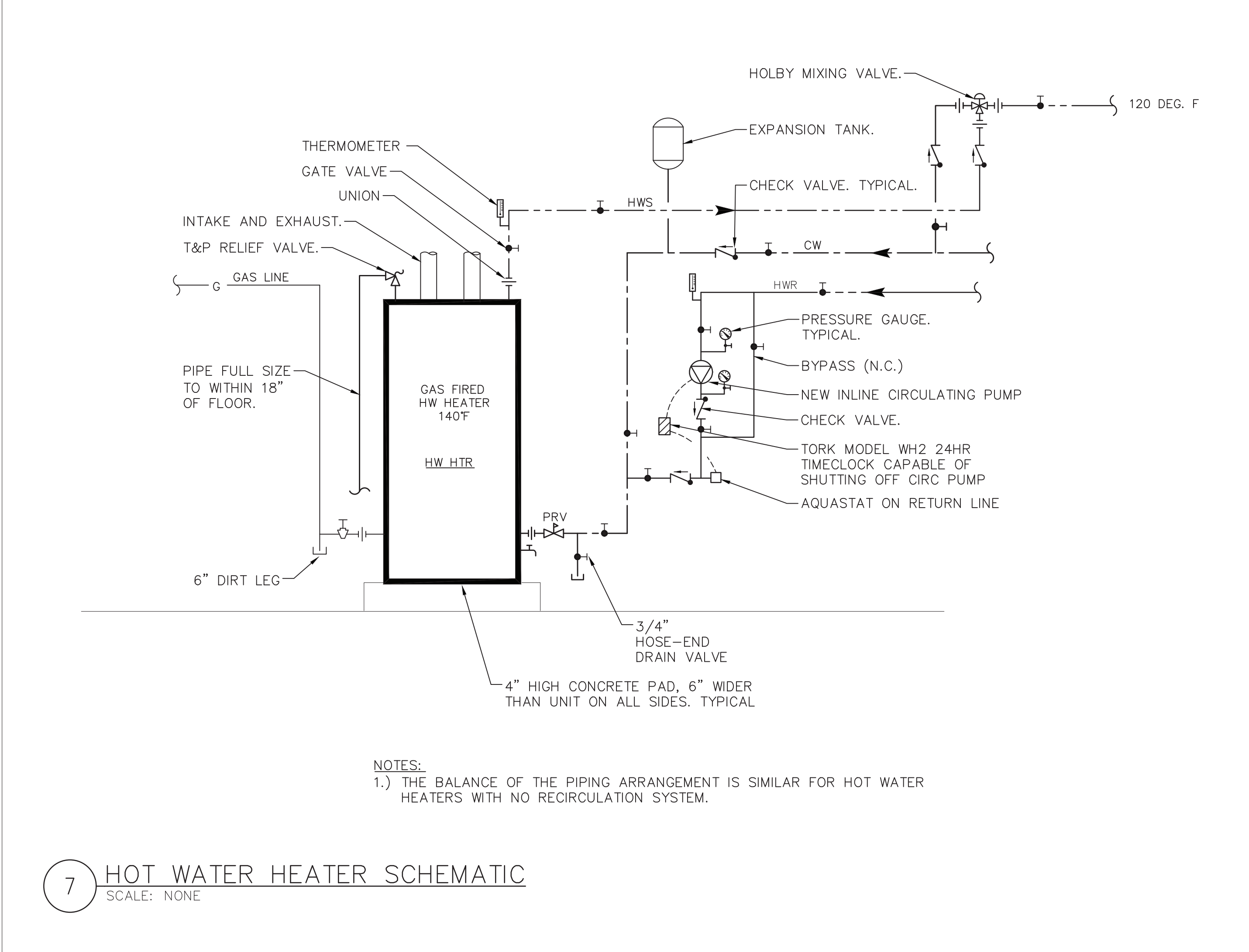
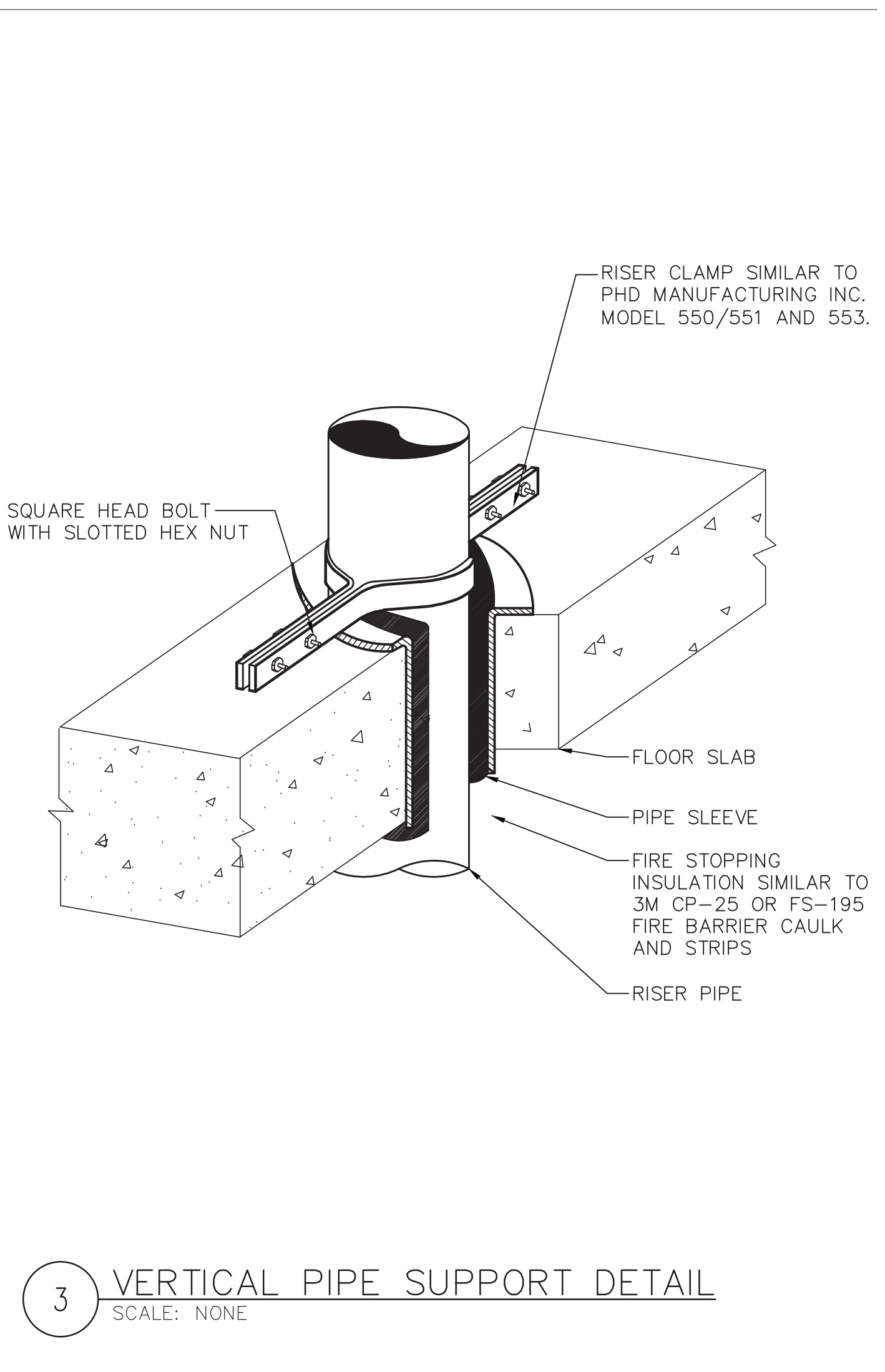
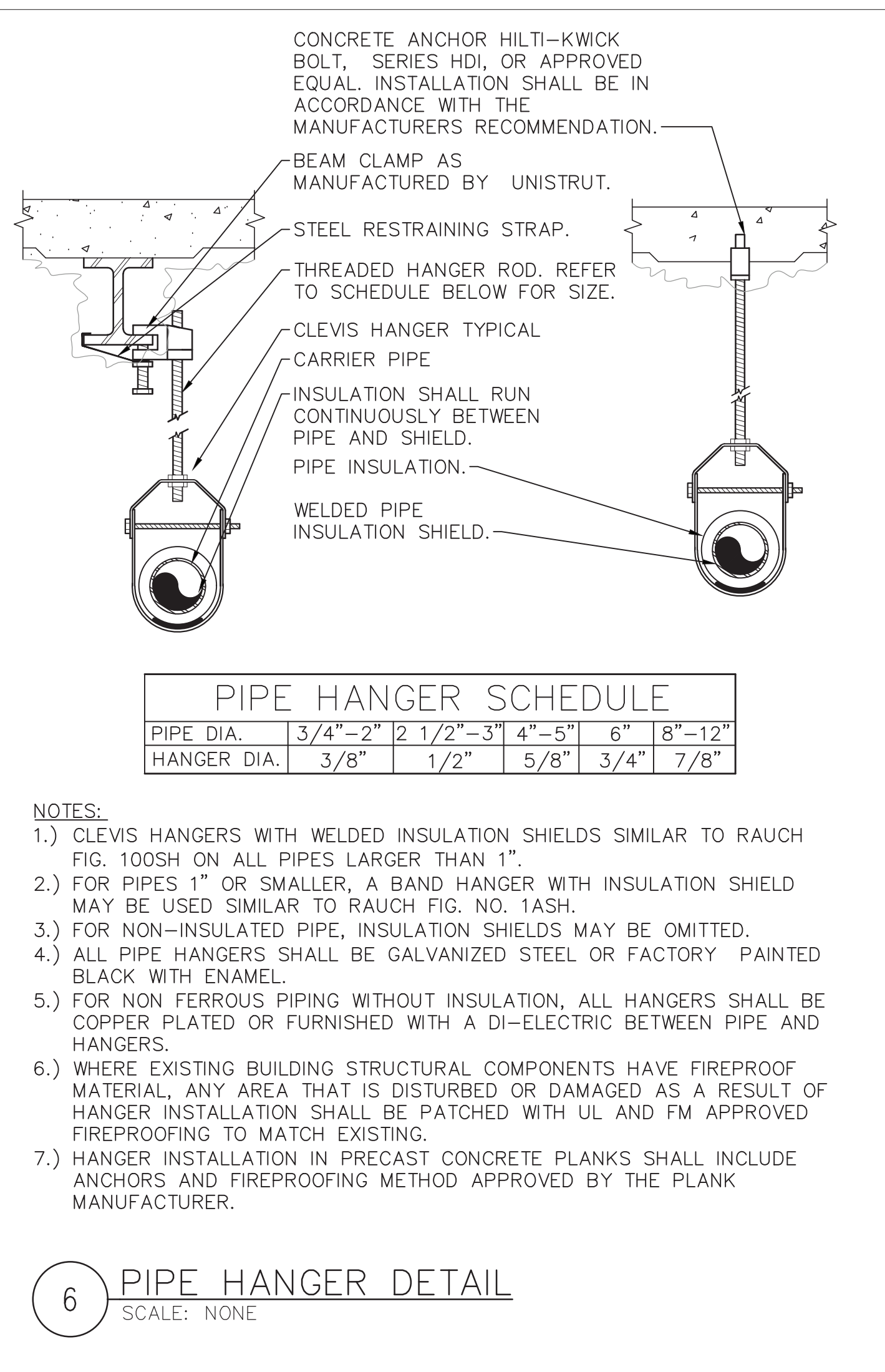
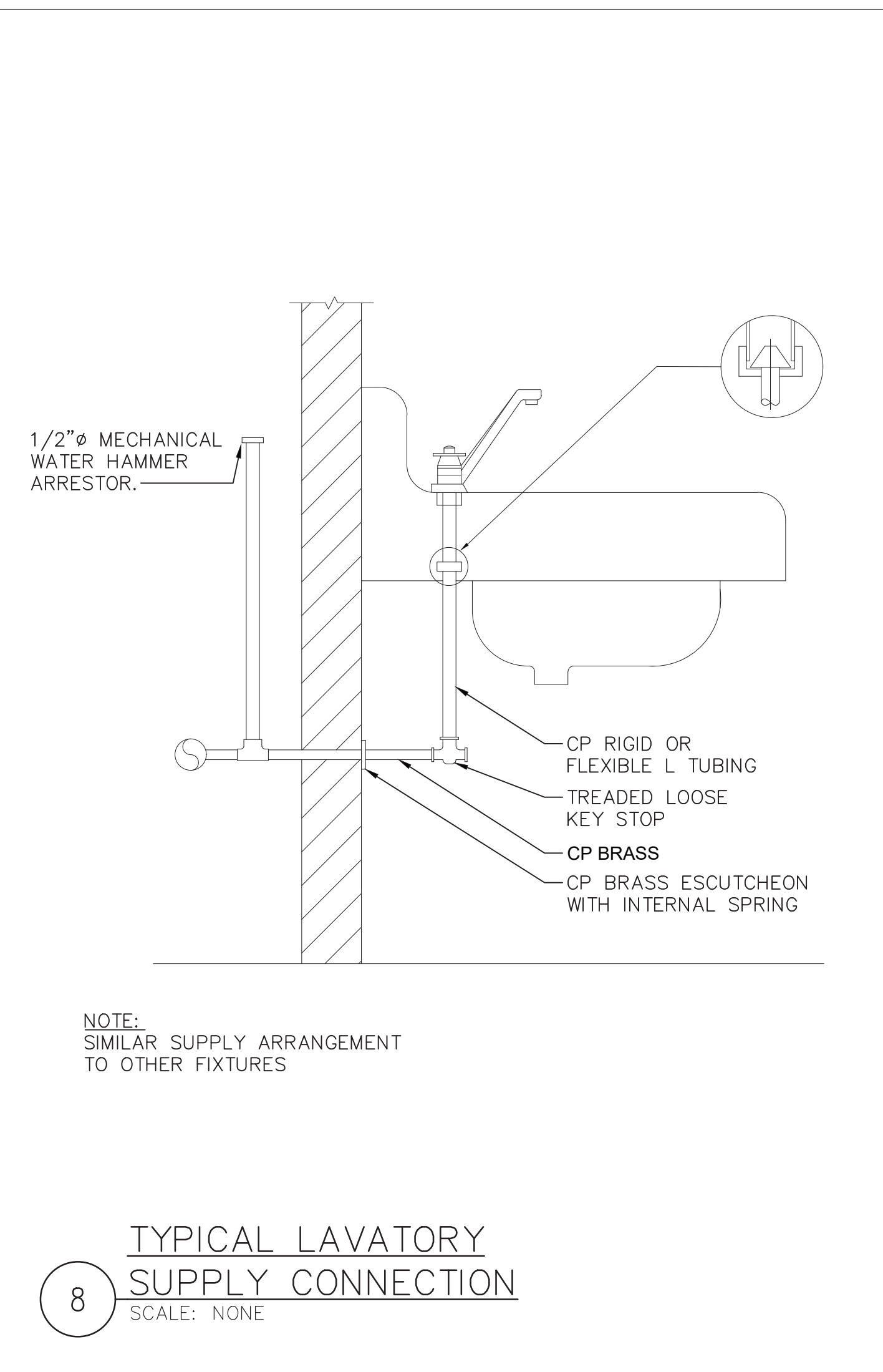
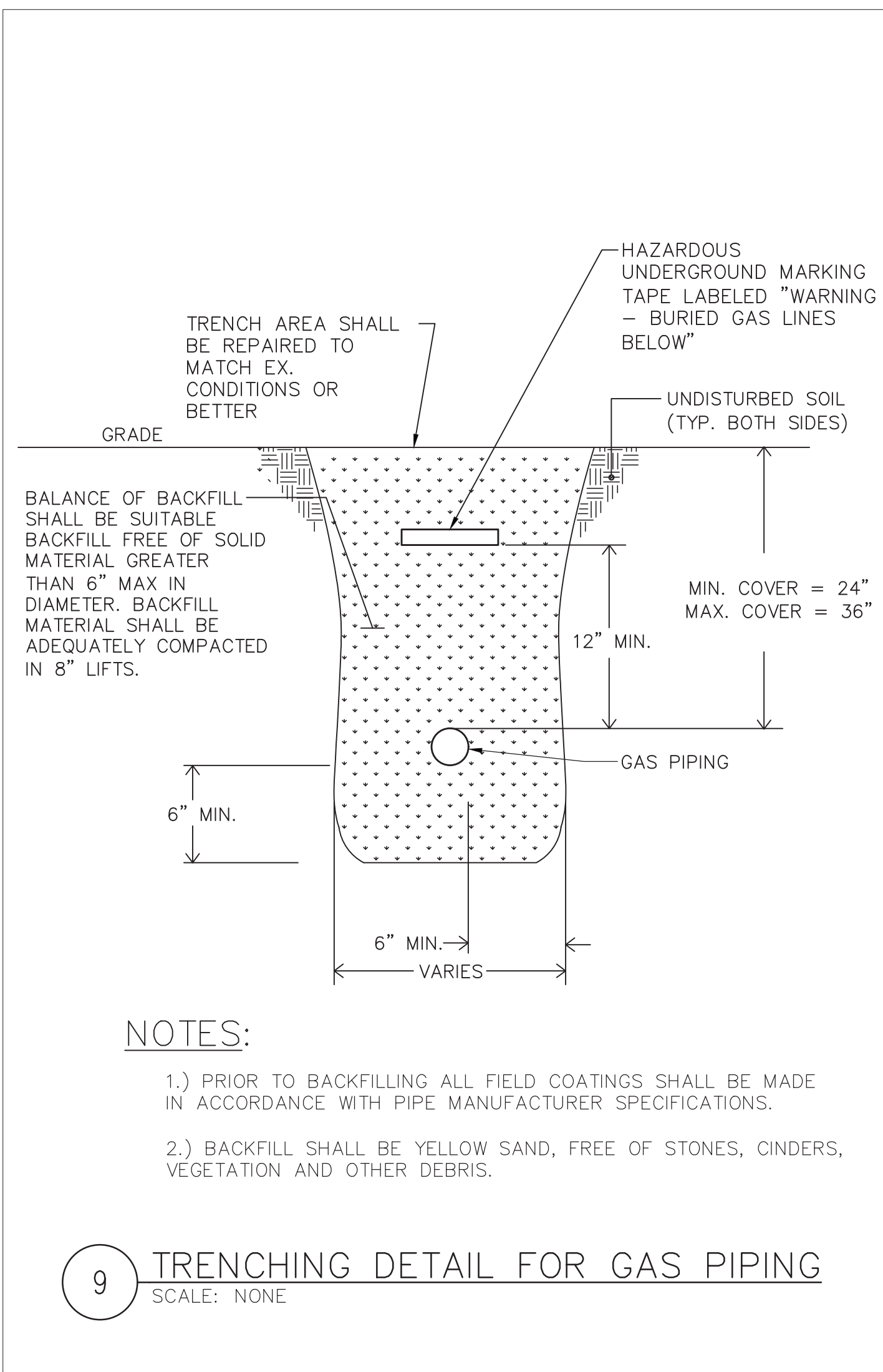
550 Old Post Road
Bedford, NY 10506

Drawing Title
PLUMBING SCHEDULES

Project No.	NSPC0010.00
Date	03-21-20
Scale	AS NOTED
Drawing by	JRT

Checked by: **JF/R5**

	Drawing No.
	P6.1



Sullivan Architecture, P.C.
31 Mamaroneck Avenue
White Plains, New York 10601
914-761-6006 (F) 914-761-4919

Owner: **Bedford Village Fire District**
34 Village Green
Bedford, NY 10506

MEP Engineer: **OLA Consulting Engineers**
50 Broadway, Hawthorne, NY 10532
8 West 38th St., Suite 501, New York, NY
Tel: 914-747-2800

Date Issue

03.10.20	MEETING
03.27.20	DESIGN DEVELOPMENT
05.07.20	PROGRESS
05.08.20	CD PROGRESS SET
05.28.20	CD PROGRESS SET
06.30.20	CD REVIEW SET
09.01.20	CONSTRUCTION PROGRESS
09.15.20	ICC SUBMISSION
01.15.21	ISSUED FOR BID

Project Title

Bedford Fire Headquarters

550 Old Post Road
Bedford, NY 10506

Drawing Title

PLUMBING DETAILS

Project No.	NSPC001000
Date	03-21-20
Scale	AS NOTED
Drawing by	JRT
Checked by	JF/R5
Drawing No.	P7.1

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Project Title

**Bedford
Fire
Headquarters**

550 Old Post Road
Bedford, NY 10506

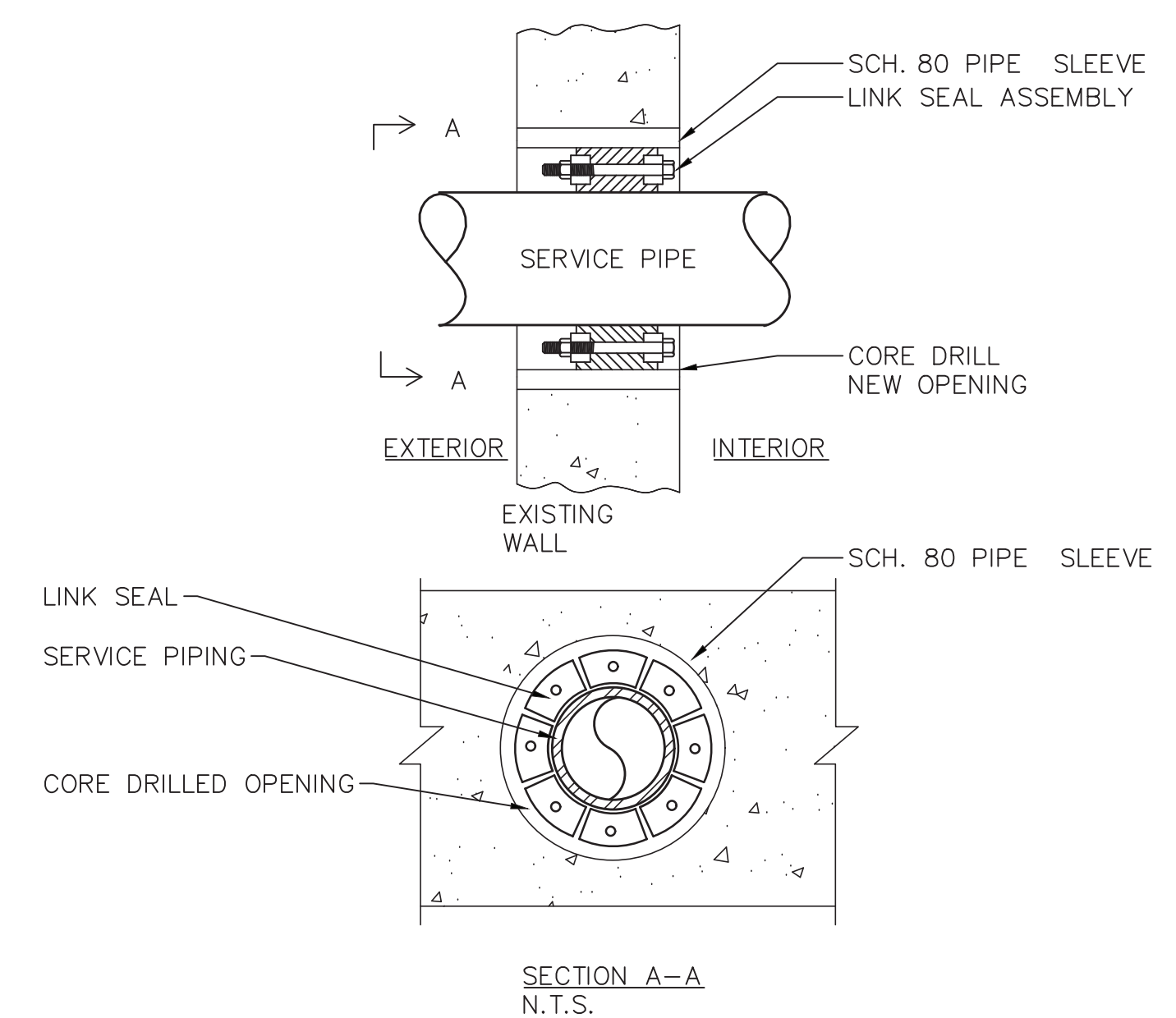
Drawing Title
PLUMBING DETAILS

Project No. NSPG0010.00
Date 03-21-20
Scale AS NOTED

Checked by JF/RS
Drawing No.



P7.2



- NOTES:**
- 1.) SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATED NUTS AND BOLTS RATED FOR AN OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
 - 2.) USE LINK SEAL AT ALL LOCATIONS WHERE PIPES PENETRATE EXTERIOR WALLS, ABOVE GRADE OR BELOW GRADE.

**PIPE LINK SEAL DETAIL
FOR EXTERIOR WALLS**

SCALE: NONE

1