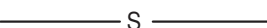
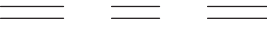

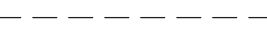

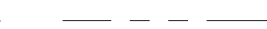


























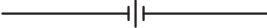
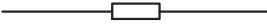

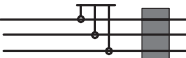


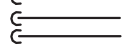






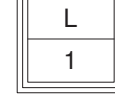
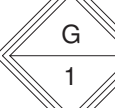


PLUMBING SYMBOL LIST		
SYMBOL		DESCRIPTION
	S	SOIL OR WASTE PIPING (S) (SAN) (W)
		PIPING BELOW GROUND
	ST	LEADER (L) (LDR) (ST) (ST-CONTROLLED) (ST-TANK)
		VENT PIPING (V)
	CW	COLD WATER PIPING (CW)
	HW	HOT WATER PIPING (HW)
	HWR	HOT WATER CIRCULATING PIPING (HWR)
	G	GAS PIPING (COOKING)
	GH	GAS PIPING (HEATING)
	GR	GAS PIPING (ROOF TOP UNITS)
	PD	PUMP DISCHARGE PIPING (P.D.)
	FM	FORCED MAIN PIPING (F.M.)
		BALL VALVE (B.V.)
		GATE VALVE (G.V.)
		LOCKSHIELD VALVE (GLOBE VALVE)
		PLUG VALVE
		CHECK VALVE (C.V.)
		HOSE BIBB (H.B.) SILL COCK (S.C.)
		VACUUM BREAKER (V.B.)
		PRESSURE RELIEF VALVE PRESS. & TEMP. RELIEF VALVE
		PRESSURE REGULATING VALVE
		STRAINER
		"T" TRAP FOR LAV., SINK, ETC.
		CLEANOUT DECK PLATE CLEANOUT (C.O.D.P. (C.O.))
		SHOCK ABSORBER
		ANCHOR
		GUIDE
		PRESSURE GAUGE
		THERMOMETER
		TEMPERATURE REGULATOR
		WALL HYDRANT (W.H.)
		PIPING COVERED WITH ELECTRIC HEAT TRACING CABLE & INSULATION
		UNION CONNECTION
		EXPANSION JOINT
		AUTOMATIC AIR VENT VALVE
		SHUT-OFF VALVES
	5'(292)	PIPE SIZE & FU COUNT
		SANITARY PIPING DROP AND RISE ONLY
		DOMESTIC SUPPLY PIPING DROP AND RISE ONLY
		DOMESTIC SUPPLY PIPING UP AND DOWN (UNLESS OTHERWISE NOTED)
		SANITARY PIPING UP AND DOWN (UNLESS OTHERWISE NOTED)
		SANITARY TRAP
		CHECK VALVE
		ANCHOR IN VERTICAL PIPE
		STACK & RISER SYMBOLS
		SOIL WASTE & VENT STACKS & WATER RISERS
		STORM LEADER
		GAS RISER

NOTE: THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

PLUMBING GENERAL NOTES

1. THE CONTRACTOR FOR THIS WORK SHALL CAREFULLY INSPECT AND ACQUAINT HIMSELF WITH EXISTING CONDITIONS IN ORDER THAT HE FULLY UNDERSTANDS THE WORK REQUIRED. HE SHALL FIELD MEASURE AND VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS OF EXISTING SERVICES AND UTILITIES BEFORE STARTING ANY WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER FOR RESOLUTION.
3. PIPING LAYOUTS ARE DIAGRAMMATIC AND INTENDED TO SHOW GENERAL ARRANGEMENT, SIZE, AND CAPACITY. ALL OFFSETS ARE NOT NECESSARILY SHOWN. THE PLUMBING CONTRACTOR SHALL ARRANGE AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS, AND FITTINGS TO PREVENT CONFLICTS WITH MECHANICAL AND ELECTRICAL SERVICES AND WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.
4. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING AND/OR REMOVAL OF CEILING AND FLOOR OPENINGS AS REQUIRED UNDER THIS SCOPE OF WORK. ALL WALL AND/OR FLOOR OPENINGS AS NECESSARY, REPLACE ANY DAMAGED CEILING TILES, PAINT WALLS AND CEILINGS TO MATCH EXISTING CONDITIONS.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REMOVAL OF DEBRIS GENERATED BY HIS WORKERS AND WORKERS AT THE END OF EACH WORKING DAY. FOR GENERAL GOOD HOUSEKEEPING BY HIS WORKERS, AND SHALL SUPPLY DEBRIS CONTAINERS(DUMPSTERS) AS REQUIRED.
6. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE WALLS AND WALLS WHICH REQUIRE PENETRATIONS. THE PLUMBING CONTRACTOR SHALL PROVIDE THE RESTORATION OF FLOOR AND WALL PENETRATIONS WITH FIRE RATED SEALANT BEFORE FINAL PAYMENT.
7. THE CONTRACTOR SHALL REPLACE ANY PIPING SYSTEM AND COMPONENTS WHICH DO NOT PASS TESTING PROCEDURES SPECIFIED AND RETEST REPAIRED PORTIONS OF THE SYSTEM.
8. THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT, EQUIPMENT SUPPLIED BY OTHERS, INCLUDING REQUIRED FAUCETS, STOPS, VALVES, FITTINGS, TRAPS, ETC.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED DRAIN AND VENT PIPING.
10. THE CONTRACTOR SHALL RUN ALL PIPING TO AVOID REINFORCING AND/OR FOOTINGS AT ALL COLUMN LINES.
11. DOMESTIC COLD WATER, HOT WATER & CIRCULATION HOT WATER PIPE WILL BE INSULATED.

GENERAL SEALING NOTES

1. INSTALL SILICONE CAULK (TREMCO OR EQUIVALENT) TO SEAL PERIMETER OF ALL ACCESS DOOR FRAMES AND DRYWALL CONSTRUCTION.
2. ALL FLOOR PENETRATIONS SHALL BE SEALED WITH LOW VISC MASTIC TO SEAL PENETRATION THROUGH ROOF. APPLY MASTIC PRIOR TO INSTALLATION OF PIPING.
3. INSTALL MASTIC AS PER MANUFACTURER'S REQUIREMENTS AND SHALL ONLY BE USE LOW VOC MASTIC TYPE AS PER SPECIFICATIONS.
4. PROVIDE EXPANDED CLOSED CELL FOAM RATED FOR 220 DEG F AT GYPSUM BOARD PENETRATIONS OF CLOPPER HEATING PIPES. SEAL GAP BETWEEN CLOSED CELL FOAM INSULATION AND GYPSUM BOARD WITH SILICONE CAULK.
5. FOR CENTRAL SHAFTS, CONTRACTOR SHALL ENSURE TIGHT DUCT CONSTRUCTION THROUGH QUALITY CONTROL OF MANUAL SEALING AS PER PERFORMANCE BASED VERIFICATIONS OR FOR THE CASE OF AUTOMATED SEALING.
6. CONTRACTOR SHALL SEAL ALPENENTRATIONS OF PIPES IN PARTITION WALLS BETWEEN ADJACENT APARTMENTS AND BUILDING ROOMS.

NOTES:

AS PER NEW YORK STATE PLUMBING CODE SECTION 605.3, TABLE 605.3, CROSS-LINKED POLYETHYLENE (PEX) TUBING IS AN ACCEPTABLE MATERIAL TO BE USED FOR WATER DISTRIBUTION PIPE. MATERIALS SHALL BE RATED FOR THE OPERATING TEMPERATURE AND PRESSURE AS PER NEW YORK STATE PLUMBING CODE SECTION 605.3. ALL PIPING SHALL BE INSULATED AS PER THE NEW YORK STATE ENERGY CODE

[illegible]

UNDERGROUND NOTE

1. CONTRACTOR SHALL COORDINATE SOIL TYPE AND ANGLE OF REPOSE PERMITTED WITH ALL THE BUILDINGS NEW BUILDING SEWERS AND HORIZONTAL BRANCHES.
2. CONTRACTOR SHALL VERIFY ALL EXISTING SANITARY, STORM SEWER ELEVATIONS AND FOOTING ELEVATIONS AND COORDINATE DETAILS OF PIPING THROUGH OUTSIDE WALL WITH THE ARCHITECT, GENERAL CONTRACTOR AND STRUCTURAL ENGINEERS ETC.
3. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO STORM, SANITARY LATERALS INSTALLED BY SITE CONTRACTOR BUT NOT LIMITED TO.
4. CONTRACTOR SHALL PROVIDE CORROSION DRAINAGE DETAIL ILLUSTRATING ALL THE ELECTRICAL CONDUIT ROUTINGS AND ELEVATIONS BEFORE PROCEEDING WITH ANY EXCAVATION FOR THE STORM, WASTE AND DOMESTIC WATER PIPING.
5. CONTRACTOR SHALL COORDINATE WITH ACTUAL FIELD CONDITIONS.
6. FINAL DIMENSIONS, INVERT ELEVATIONS, AND ROUTING OF ALL PIPES, ETC., SHALL BE THE RESPONSIBILITY OF THE CORRESPONDING SUB-CONTRACTOR IN ACCORDANCE WITH THE PIPING AND/OR DRAINAGE DRAWINGS. THE PIPING AND/OR DRAINAGE DRAWINGS ARE DIAGRAMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. CONSTRUCTION OF PLUMBING WORK SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, WORK, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

NYS BUILDING DEPT.

1. ALL WORK WILL CONFORM TO THE NEW YORK STATE PLUMBING CODE 2010 EDITION.
2. ALL PIPING PASSING THROUGH OR UNDER WALLS OR FOOTINGS SHALL BE PROTECTED FROM BREAKAGE AND CORROSION - CHAPTER 3, PC 305.
3. TRENCHING, EXCAVATION AND BACKFILLING - CHAPTER 3, PC 300.
4. ALL SLEEVES SHALL BE AS PER CHAPTER 3, PC 305.
5. RODENT PROOFING SHALL BE AS PER CHAPTER 3, PC 304, AND APPENDIX F.
6. TOILET FACILITIES FOR WORKMAN SHALL BE AS PER CHAPTER 3, PC 311.
7. MATERIALS FOR PLUMBING SHALL CONFORM TO TABLES 702.1, 702.2, 702.3 AND 702.4. SINK SHALL BE IDENTIFIED AS PER PC 702.
8. PIPING SYSTEMS MATERIALS SHALL BE AS PER PC 702.
9. MINIMUM NUMBER OF PLUMBING FIXTURES SHALL BE AS PER TABLE WITH P403 TABLE 403.1.
10. FLUSHING DEVICES FOR WATER CLOSETS SHALL BE AS PER PC 425.1 THROUGH PC 425.3.2.
11. SIZE OF WATER OUTLETS FOR PLUMBING FIXTURES:
 - 11.a. WASTE CLOSET - AS PER SECTION PC 420
 - 11.b. LAVATORY - AS PER SECTION PC 416
 - 11.c. SINK - AS PER SECTION PC 407
 - 11.d. BATHTUB - AS PER SECTION PC 418
 - 11.e. DISHWASHER - AS PER SECTION PC 409
 - 11.f. AUTOMATIC CLOTHES WASHER - AS PER SECTION PC 406
 - 11.g. LAUNDRY TRAY - AS PER SECTION PC 415
 - 11.h. FLOOR DRAIN - AS PER SECTION PC 412
12. TRAP AND CLEANOUTS WILL BE PROVIDED AS PER CHAPTER 10 PC 708.
13. BUILDING HOUSE TRAP SHALL BE AS PER CHAPTER 10, PC 1002.2.
14. DRAINAGE PIPE CLEANOUTS SHALL BE AS PER PC 708.
15. HANGERS AND PIPING SUPPORTS SHALL BE AS PER PC 308.
16. WATER SUPPLY AND DISTRIBUTION SHALL BE AS PER CHAPTER 6.
17. WATER SUPPLY DISTRIBUTION SYSTEM SHALL BE AS PER CHAPTER 6, PC 604 WITH MINIMUM RATE OF FLOW AND PRESSURE AS PER TABLE 604.3, AND 604.4.
18. HOUSE AND BOOSTER PUMPS SHALL BE AS PER CHAPTER 6.
19. WATER SUPPLY WILL BE PROTECTED AGAINST BACKFLOW AND BACKSIPHONAGE AS PER CHAPTER 6.
20. SANITARY DRAINAGE PIPING WILL CONFORM TO PC 701.
21. SIZING OF THE SANITARY DRAINAGE PIPING SHALL BE AS PER CHAPTER 7, PC 710.
22. VENT PIPING SHALL CONFORM TO CHAPTER 9.
23. STORM DRAINAGE PIPING SHALL BE AS PER CHAPTER 11.
24. GAS PIPING SHALL BE AS PER CHAPTER 12 OF THE NYS FUEL GAS CODE 2007.
25. PROVIDE STERILIZATION OF DOMESTIC WATER AS PER CHAPTER 6, PC 610.

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET AND OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

DRAINS SCHEDULES																																	
DESIGNATION		BODY										STRAINER															REMARKS						
		ZURN J.G. SMITH SERIES NO.	CAST IRON	GALVANIZED	ALL BRONZE	SECONDARY CLAMP	CLAMPING DEVICE	DECK CLAMP	BACK WATER VALVE	ROOF SUMP RECEIVER	INSIDE CHALK	STAINLESS STEEL	DUCTILE IRON	CAST IRON	GALVANIZED	ALL BRONZE	NICKEL BRONZE	CHROME PLATED	SEDIMENT BUCKET	SECONDARY STRAINER	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	S.S. MESH/SCREEN	FUNNEL TOP	FLAT TOP	DOME	RAISED UP EXTENSION	SECURED GRATE	ANGLE GRATE	CENTER HOLE	1/2" GRATE	LOCATION
FD	2233	o							o				o					o					o			o							SPRINKLER ROOMS/MEDIUM DRAIN WITH SAFE SET BUCKET)
GD	2250	o				o										o		o															GARAGE/HEAVY DUTY DRAIN WITH SEDIMENT BUCKET)
FD	3250	o				o							o			o										o					o		SPRINKLER ROOM 24 5/8" LG X 12"W X 17" H

NOTE:
PROVIDE ALL FLOOR DRAINS WITH TRAP GUARD TO PROTECT FLOOR DRAIN TRAP SEAL.

PLUMBING PUMP SCHEDULE														
UNIT DESIG.	LOCATION	EQUIPMENT OR SYSTEM SERVICED	GPM (EA)	TOTAL HEAD (FT.)	FLUID TEMP. (F°)	IMPELLER DIAM. (IN.)	MANUFACTURER AND MODEL NO.	MOTOR DATA			RPM	SEAL TYPE	PUMP TYPE	REMARKS
								BHP	HP (EA)	VOLTHP				
ELEVATOR SUMP PUMP	CELLAR	ELEVATOR PIT	50	22	50		W/ 2 PUMP PEERLESS MODEL C615J STANCOR MODEL SE-50		0.5	208/1	3450		VERTICAL SUBMERSIBLE	W/ STANCOR OIL-MINDER
DUPLEX SEWAGE EJECTOR PUMP	CELLAR	GARAGE DRAINS	50	25	50		STANCOR MODEL SE-50		2	208/3	3450		VERTICAL SUBMERSIBLE	W/ 4" DISC CHARGE AND CONTROLLERS

NOTES:

1. PROVIDE RESETTABLE ALTERNATOR AND AUTO-CHANGEOVER IN EVENT OF LEAD PUMP FAILURE, WITH ALARM.
2. PUMPS SHALL BE ON 4" MIN. CONCRETE PAD. COORDINATE WITH G.C.
3. PROVIDE VIBRATION ISOLATION ON PIPING 15ft. FROM EA. SIDE OF PUMPS.

GENERAL NOTES:

1. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON WHUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MIN. U.N.O. ALL P.W.C. CONNECTIONS SHALL BE EXPANDED TO 1/2" ABOVE EVERY LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "1" COPPER PIPE U.N.O.
2. TOP OF DRAIN GRADE SHALL BE 1/2" BELOW FINISHED FLOOR. TOPICAL FOR ALL DRAINS.
3. ALL DRAINAGE PIPING SHALL BE 1/2" ABOVE EVERY ELEVATION.
4. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2M-001.
5. ALL DRAINAGE PIPING SHALL BE 1/2" ABOVE FINISHED FLOOR. PIPE OUTSIDE DIA. AT GRADE SHALL PENETRATIONS. WRAP PIPES IN 1/2" FIBERGLASS AND SEAL OPENING W/APPROVED SEALANT. TYPICAL AT GRADE SEAL.
6. ALL DRAINAGE PIPING SHALL BE 1/2" ABOVE FINISHED FLOOR. PIPE OUTSIDE DIA. AT GRADE SHALL PENETRATIONS. WRAP PIPES IN 1/2" FIBERGLASS AND SEAL OPENING W/APPROVED SEALANT. TYPICAL AT GRADE SEAL.
7. ALL DRAINAGE PIPING SHALL BE 1/2" ABOVE FINISHED FLOOR. PIPE OUTSIDE DIA. AT GRADE SHALL PENETRATIONS. WRAP PIPES IN 1/2" FIBERGLASS AND SEAL OPENING W/APPROVED SEALANT. TYPICAL AT GRADE SEAL.
8. ALL DRAINAGE PIPING SHALL BE 1/2" ABOVE FINISHED FLOOR. PIPE OUTSIDE DIA. AT GRADE SHALL PENETRATIONS. WRAP PIPES IN 1/2" FIBERGLASS AND SEAL OPENING W/APPROVED SEALANT. TYPICAL AT GRADE SEAL.
9. ALL DRAINAGE PIPING SHALL BE 1/2" ABOVE FINISHED FLOOR. PIPE OUTSIDE DIA. AT GRADE SHALL PENETRATIONS. WRAP PIPES IN 1/2" FIBERGLASS AND SEAL OPENING W/APPROVED SEALANT. TYPICAL AT GRADE SEAL.
10. ALL DRAINAGE PIPING SHALL BE 1/2" ABOVE FINISHED FLOOR. PIPE OUTSIDE DIA. AT GRADE SHALL PENETRATIONS. WRAP PIPES IN 1/2" FIBERGLASS AND SEAL OPENING W/APPROVED SEALANT. TYPICAL AT GRADE SEAL.
11. ALL DRAINAGE PIPING SHALL BE 1/2" ABOVE FINISHED FLOOR. PIPE OUTSIDE DIA. AT GRADE SHALL PENETRATIONS. WRAP PIPES IN 1/2" FIBERGLASS AND SEAL OPENING W/APPROVED SEALANT. TYPICAL AT GRADE SEAL.
12. ALL FIRE PROTECTION VALVES REQUIRED TO BE LOCKED OR MONITORED BY THE N.P.F.A. SHALL BE LOCKED.
13. PROVIDE MINIMUM CLEARANCE BETWEEN VALVES, WALLS AND COLUMNS TO ALLOW OPERATION OF VALVES.

CONTRACT				
032	032E	032H	032P	N/TS
N	N	N	F	N

N = NOT IN CONTRACT, FOR REFERENCE ONLY
F = FULL SCOPE - ALL SCOPE ON DRAWINGS APPLIES TO SINGLE CONTRACT ONLY
S = SPLIT SCOPE. SEE SUMMARY OF WORK SPECIFICATIONS FOR CLARIFICATION.



EXPIRATION DATE: 02/2021
DATE SEALED: 11/12/2020
EDWARD C. ETTINGER: PROFESSIONAL ENGINEER
LICENSE NO. 095119

OWNER / CONSTRUCTION MANAGER



CITY OF NEW ROCHELLE
New Rochelle, NY 10801



THE NRP GROUP
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CIVIL ENGINEER:



VHB
50 Main Street, Suite 360
White Plains, NY 10606
(914) 467 6629

Renaissance at Lincoln Park
116 Guion Place
Garage Precast
Contract 20-032

New Rochelle, NY

8	01/22/2021	ISSUED FOR PLUMBING BIDDING
7	12/18/2020	ISSUED FOR CONSTRUCTION
6	12/16/2020	NRP/TS BULLETIN #1
5	11/12/2020	BUILDING PRECAST BIDDING
4	10/20/2020	BUILDING PERMIT RESUBMISSION
3	09/25/2020	BUILDING PERMIT RESUBMISSION
2	09/17/2020	95%CD/BID SET
1	08/17/2020	ISSUED FOR PERMIT
MARK	DATE	DESCRIPTION

ISSUE: CONSTRUCTION DOCUMENTS

ISSUE DATE:	11/23/2020
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PROJECT NO:	2477
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DRAWN BY: P.C.

CHECKED BY: E.E.

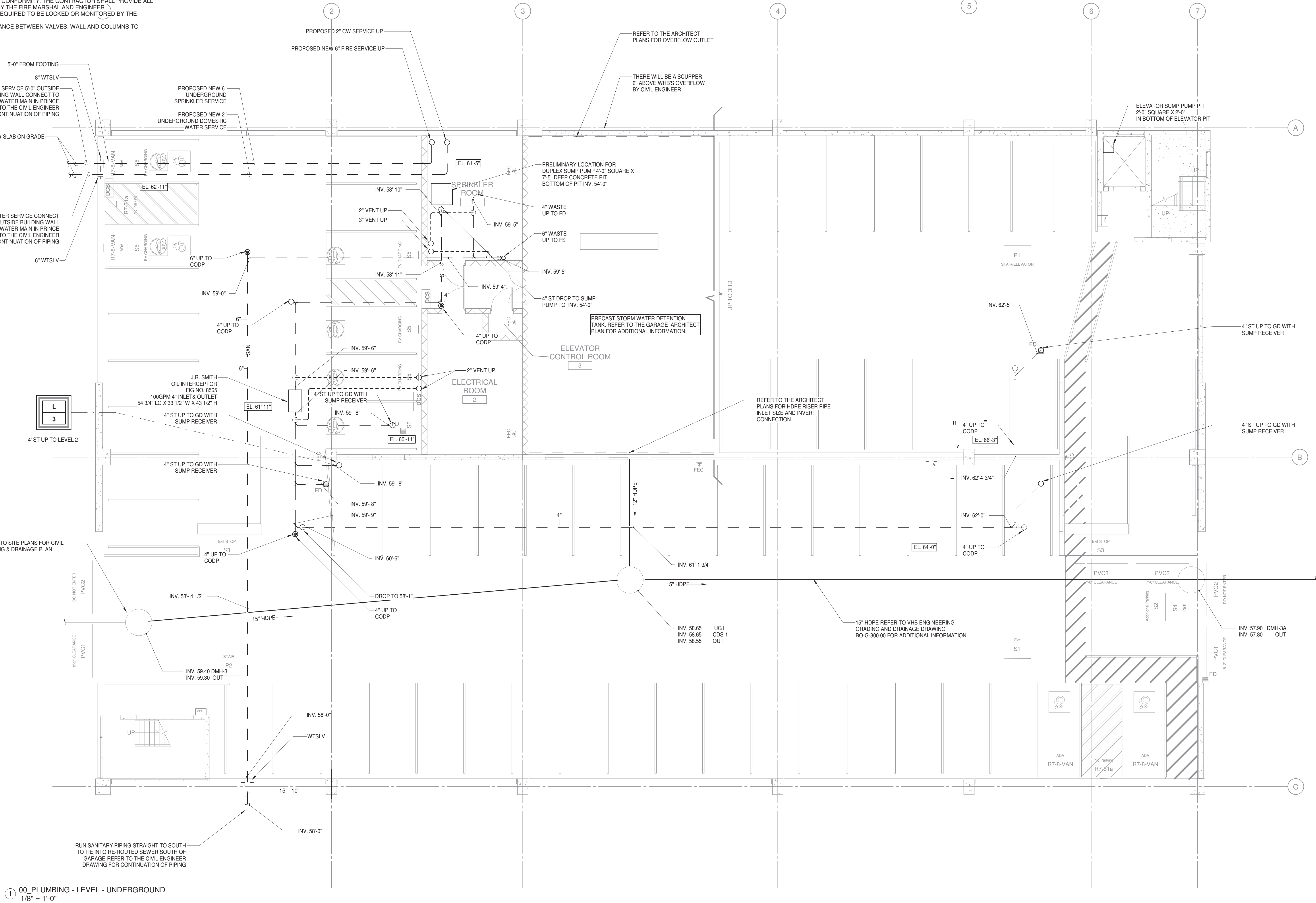
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SHEET TITLE:
PLUMBING LEAD SHEET

P-001.00

GENERAL NOTES:

1. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/ HUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MIN. U.N.O. ALL R.W.C. SHALL HAVE EXPANSION JOINTS AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE 1" COPPER PIPE U.N.O.
2. TOP OF DRAIN GRATE SHALL BE 1/2" BELOW FINISHED FLOOR. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.
3. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2/M-001.
4. PROVIDE CAST IRON PIPE SLEEVES 2" LARGER THAN PIPE OUTSIDE DIA. AT GRADE SLAB PENETRATIONS. WRAP PIPES W/ 1/2" FIBERGLASS AND SEAL OPENING W/ APPROVED SEALANT. TYPICAL AT GRADE SLAB.
5. PROVIDE 1/3 CU. YD. CONCRETE THRUST BLOCK AT BASE OF ALL RAIN WATER COLLECTORS AND COLD WATER RISERS AND AT ALL BENDS BELOW GRADE, FOR SUPPORT.
6. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE LOADS AND RETAIN THE PIPING SECURELY IN POSITION UNDER FULLY LOADED CONDITIONS. SEE DETAILS 3 & 4/M-001.
7. COORDINATE ALL BLOCK-OUTS REQUIRED W/ GENERAL CONTRACTOR.
8. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.
9. THE USER OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS PROHIBITED.
10. PROVIDE EXPANSION LOOPS AT ALL LOCATIONS PIPING CROSSES EXPANSION JOINTS.
11. FIRE PROTECTION SYSTEM, PIPING, VALVES AND ACCESSORIES INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. IT IS THE RESPONSIBILITY OF THE DESIGNING CONTRACTOR TO VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING, PIPE SIZING, DRAIN POINTS, TEST CONNECTIONS, ETC., FOR STATE BUILDING CODE COMPLIANCE, INSURER COMPLIANCE, ARCHITECTURAL AND CONFORMITY. THE CONTRACTOR SHALL PROVIDE ALL DRAWINGS AND CALC. REQUIRED BY THE FIRE MARSHAL AND ENGINEER.
12. ALL FIRE PROTECTION VALVES REQUIRED TO BE LOCKED OR MONITORED BY THE N.F.P.A. SHALL BE LOCKED.
13. PROVIDE MINIMUM HAND CLEARANCE BETWEEN VALVES, WALL AND COLUMNS TO ALLOW OPERATION OF VALVES.



1.00 PLUMBING - LEVEL - UNDERGROUND
1/8" = 1'-0"

CONTRACT				
032	032E	032H	032P	N/TS
N	N	N	F	N

N = NOT IN CONTRACT, FOR REFERENCE ONLY
F = FULL SCOPE - ALL SCOPE ON DRAWINGS APPLIES TO SINGLE CONTRACT ONLY.
S = SPLIT SCOPE. SEE SUMMARY OF WORK SPECIFICATIONS FOR CLARIFICATION.



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CIVIL ENGINEER:



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White Plains, NY 10606
(914) 467-6629

Renaissance at Lincoln Park
116 Guion Place
Garage Precast
Contract 20-032

New Rochelle, NY

MARK	DATE	REVISIONS	DESCRIPTION
8	01/22/2021	ISSUED FOR PLUMBING BIDDING	
7	12/18/2020	ISSUED FOR CONSTRUCTION	
6	12/16/2020	NRP/TS BULLETIN #1	
5	11/12/2020	BUILDING PRECAST BIDDING	
4	10/20/2020	BUILDING PERMIT RESUBMISSION 2	
3	09/25/2020	BUILDING PERMIT RESUBMISSION	
2	09/17/20	95%CD/BID SET	
1	08/17/20	ISSUED FOR PERMIT	

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SHEET TITLE:
PLUMBING - UNDERGROUND
PLAN

P-099.00

PAGE #:

2 OF 8

1. ALL DRAINAGE PIPES ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/HUB AND SPOUT.
2. PROVIDE 1/2" MIN. THICKNESS OF PIPING AT 1/8" PER FOOT MIN. U.P.C. ALL R.W.C. SHALL HAVE EXPANSION JOINTS AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE 1", COPPER PIPE U.N.O.
3. PROVIDE 1/2" MIN. THICKNESS OF PIPING BELOW FINISHED FLOOR, TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.
4. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS.
5. PROVIDE CAST IRON PIPE SIZES 2" LARGER THAN PIPE SIZE OUTSIDE W/ AT GRADE SLAB. PROVIDE 1/2" MIN. THICKNESS OF PIPING FOR FIBERGLASS AND SEAL OPENING W/ APPROVED SEALANT, TYPICAL AT GRADE SLABS.
6. PROVIDE 1/3" CU. YD. CONCRETE THRUST BLOCK AT BASE OF ALL RAIN WATER PIPES AND CULVERTS. PROVIDE INSULATED AND POSITION LINES BELOW GRADE, FOR SUPPORT.
7. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THEY WILL SUSTAIN THE WEIGHT OF THE PIPE AND RISER INSULATED IN POSITION LINES BELOW GRADE. CONDITIONS. SEE DETAILS 3-4 AND 401.
7. COORDINATE ALL BLOCK-OUTS WITH THE GENERAL CONTRACTOR.
8. PROVIDE A MOUNTING SHOE ATTACHED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.
9. PROVIDE 1/2" OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS PROHIBITED.
10. PROVIDE EXPANSION LOOPS AT ALL LOCATIONS PIPING CROSSES EXPANSION JOINTS. PROVIDE 1/2" MIN. THICKNESS OF PIPING AT VALVES AND ACCESSORIES INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. IT IS THE RESPONSIBILITY OF THE DESIGNING CONTRACTOR TO VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING, PIPE SIZING, DRAINAGE, AND ALL OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CODE COMPLIANCE, ARCHITECTURAL AND CONFORMITY. THE CONTRACTOR SHALL PROVIDE ALL DRAWINGS AND REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE ALL PROTECTIVE DEVICES REQUIRED TO BE LOCKED AND MONITORED BY THE N.P.F.A. SHALL BE LOCKED.
11. PROVIDE MINIMUM CLEARANCE BETWEEN WALLS, WALL AND COLUMNS TO ALLOW OPERATION OF VALVES.



N = NOT IN CONTRACT, FOR REFERENCE ONLY
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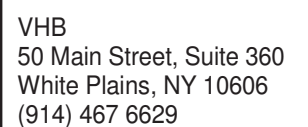
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New Rochelle, NY

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ISSUE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 11/23/2020

PROJECT NO: 2477

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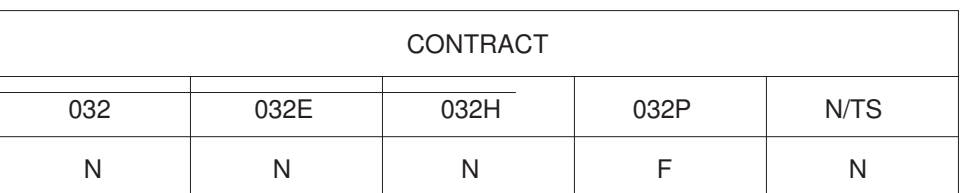
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PLUMBING - LEVEL 1 PLAN

P-100.00

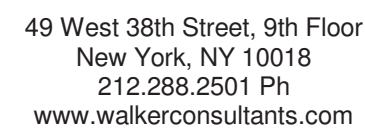
PAGE #:

3 OF 8

1. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/HUB AND SPIGOT CONNECTIONS.
2. ALL DRAINAGE PIPING SHALL BE 12" MINIMUM DRAINAGE PIPING AT ALL PER-CENTAGE SLOPE GRADES. ALL R.W.C. SHALL HAVE EXPANSION JOINTS AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "1", COPPER PIPE U.N.O.
3. ALL DRAINAGE PIPING SHALL BE 12" MINIMUM FINISHED FLOOR. TYPE FOR ALL DRAINS.
4. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.
5. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS.
6. PROVIDE CAST IRON PIPE SLEEVES 2" LARGER THAN PIPE OUTSIDE DIA. AT GRADE SLAP AND AT ALL OTHER LOCATIONS. USE FIBERGLASS AND SEAL OPENING W/ APPROVED SEALANT. TYPICAL AT GRADE SLAP.
7. PROVIDE 1/3 CU. YD. CONCRETE THRUST BLOCK AT BASE OF ALL RAIN WATER PIPING. PROVIDE HOT WATER RISERS AND POSITIONED TO AVOID FLOW GRADE, FOR SUPPORT.
8. PIPE HANGERS AND SUPPORTS SHALL BE ADJUSTED SO THAT THE PIPE WILL SUSTAIN THE WEIGHT OF THE PIPE AND RISE AND BE POSITIONED TO AVOID FLOW GRADE. CONDITIONS. SEE DETAILS 3 & 4M-01.
9. ALL DRAINAGE, ALL BUILDING AND ALL OTHER PIPING SHALL BE GRANGERED TO 1/4" O.D.
10. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.
11. ALL TYPES OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS PROHIBITED.
12. PROVIDE EXPANSION LOOPS AT ALL LOCATIONS PIPING CROSSES EXPANSION JOINTS. PROVIDE EXPANSION JOINTS AT ALL VALVES AND ACCESSORIES INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. IT IS THE RESPONSIBILITY OF THE DESIGNING CONTRACTOR TO VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING, PIPE SIZING, DRAINAGE, AND ALL OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL COMPLIANCE, ARCHITECTURAL AND CONFORMITY. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO COMPLETE THE PROJECT.
12. ALL FIRE PROTECTION VALVES REQUIRED TO BE LOCKED OR MONITORED BY THE N.P.F.A. SHALL BE LOCKED.
13. PROVIDE MINIMUM CLEARANCE BETWEEN VALVES, WALL AND COLUMNS TO ALLOW OPERATION OF VALVES.



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EXPIRATION DATE: 02/2021
DATE SEALED: 11/12/2020
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LICENSE NO. 095119

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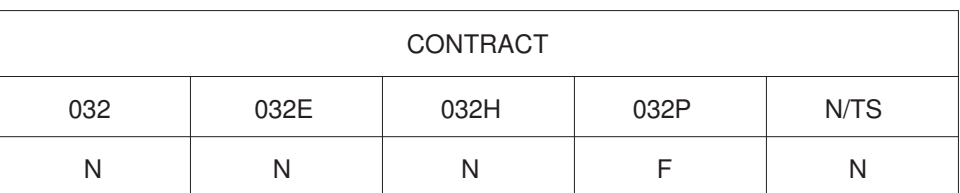
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SHEET TITLE:
PLUMBING - LEVEL 2-4 PLAN

P-101.00

PAGE #: 4 OF 8

1. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/HUB AND W/ R.C. JOINTS. ALL DRAINAGE PIPING SHALL BE 12" MIN. DUCT IRON GRADE 40 AND R.P.C. SHALL HAVE EXPANSION JOINTS AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "1" COPPER PIPE UN/CL.
2. ALL DRAINAGE PIPING SHALL BE 12" MIN. ABOVE FINISHED FLOOR. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.
3. ALL SHALE AND ROCK SHALL BE PROTECTED BY 1/2" THICK COPPER DAMAGE SHIELD PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2M/01.
4. PROVIDE CAST IRON PIPE SIZES 2" LARGER THAN PIPE SIZE OUTSIDE DIA. AT GRADE. SHALE AND ROCK SHALL BE PROTECTED BY 1/2" THICK COPPER DAMAGE SHIELD PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2M/01.
5. PROVIDE 1/3 CU. YD. CONCRETE THRUST BLOCK AT BASE OF ALL RAIN WATER DOWNSPUTS AND COLLECTOR PIPING AT ALL RENDERS. SEE DETAIL 1M/01 FOR SUPPORT.
6. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE WEIGHT OF THE PIPE AND RETAIN THE PIPING SECURELY IN POSITION UNDER FULL LOADED CONDITIONS. SEE DETAILS 3 & 4M/01.
7. COORDINATE ALL PIPING WITH THE OTHERS ORDERED W/ GENERAL CONTRACTOR.
8. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.
9. PROVIDE 1/2" DIA. OF POWER OR OTHER TYPE OF POWER PROPELLED FASTENERS PROHIBITED.
10. PROVIDE EXPANSION LOOPS AT ALL VALVES. PIPING CROSSES EXPANSION JOINTS. PROVIDE 1/2" DIA. OF POWER OR OTHER TYPE OF POWER PROPELLED FASTENERS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. IT IS THE RESPONSIBILITY OF THE DESIGNING CONTRACTOR TO VERIFY EQUIPMENT SPECIFICATIONS, PIPE ROUTING, PIPE SIZING, DRAIN PIPING, CLEANOUTS, AND CLEANOUTS. THE CONTRACTOR SHALL PROVIDE ALL THE COMPLIANCE, ARCHITECTURAL AND CONFORMITY. THE CONTRACTOR SHALL PROVIDE ALL THE COMPLIANCE, ARCHITECTURAL AND CONFORMITY. THE CONTRACTOR SHALL PROVIDE ALL THE COMPLIANCE, ARCHITECTURAL AND CONFORMITY.
12. ALL FIRE PROTECTION VALVES REQUIRED TO BE LOCKED OR MONITORED BY THE N.P.F.A. SHALL BE LOCKED.
13. PROVIDE 1/2" MINIMUM MINIMUM CLEARANCE BETWEEN VALVES, WALL AND COLUMNS TO ALLOW OPERATION OF VALVES.

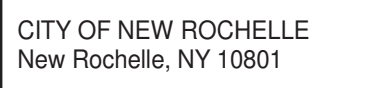


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New Rochelle, NY

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MARK	DATE	DESCRIPTION
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ISSUE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 11/23/2020

PROJECT NO:	2477
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SHEET TITLE:
PLUMBING - LEVEL 5 PLAN

P-102.00

PAGE #:

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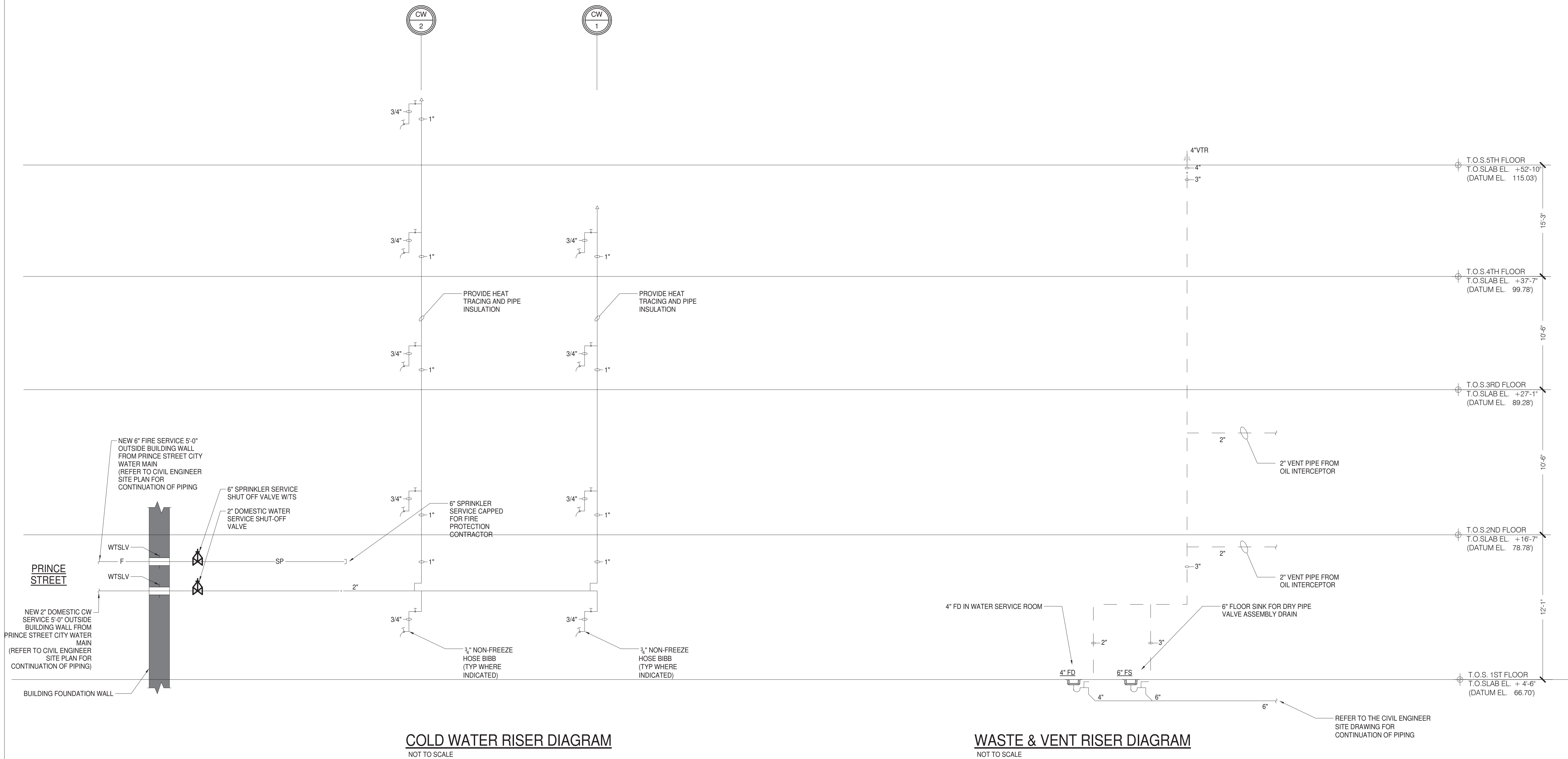
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1 03_PLUMBING - LEVEL - FIFTH TIER PLAN
1/8" = 1'-0"

1/8/2021 1:51:27 PM C:\Users\imguira\Documents\2477 - EEA - 116 GUION, B2 GARAGE - 2010_imguira@ettingerengineering.com.rvt

GENERAL NOTES:

1. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON W/HUB AND SPIGOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8" PER FOOT MIN. U.N.O. ALL R.W.C. SHALL HAVE EXPANSION JOINTS AT EVERY OTHER LEVEL. ALL PUMP DISCHARGE LINES SHALL BE TYPE "L" COPPER PIPE U.N.O.
2. TOP OF DRAIN GRATE SHALL BE 1/2" BELOW FINISHED FLOOR. TYPICAL FOR ALL DRAINS. SEE STRUCTURAL DRAWINGS FOR FLOOR ELEVATIONS.
3. ALL PIPING AND RISERS EXPOSED TO POSSIBLE BUMPER DAMAGE SHALL BE PROTECTED W/ PIPE GUARDS. SEE DETAILS 1 & 2/M-001.
4. PROVIDE CAST IRON PIPE SLEEVES 2" LARGER THAN PIPE OUTSIDE DIA. AT GRADE SLAB PENETRATIONS. WRAP PIPES W/ 1/2" FIBERGLASS AND SEAL OPENING W/APPROVED SEALANT. TYPICAL AT GRADE SLAB.
5. PROVIDE 1/3 CU. YD. CONCRETE THRUST BLOCK AT BASE OF ALL RAIN WATER COLLECTORS AND COLD WATER RISERS AND AT ALL BENDS BELOW GRADE, FOR SUPPORT.
6. PIPE HANGERS AND SUPPORTS SHALL BE ARRANGED SO THAT THEY WILL SUSTAIN THE LOADS AND RETAIN THE PIPING SECURELY IN POSITION UNDER FULLY LOADED CONDITIONS. SEE DETAILS 3 & 4/M-001.
7. COORDINATE ALL BLOCK-OUTS REQUIRED W/ GENERAL CONTRACTOR.
8. CLEANOUTS SHALL BE LOCATED AT THE BASE OF ALL DRAINAGE RISERS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS.
9. THE USER OF POWDER, GAS OR OTHER TYPE OF POWER PROPELLED FASTENERS PROHIBITED.
10. PROVIDE EXPANSION LOOPS AT ALL LOCATIONS PIPING CROSSES EXPANSION JOINTS.
11. FIRE PROTECTION SYSTEM, PIPING, VALVES AND ACCESSORIES INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. IT IS THE RESPONSIBILITY OF THE DESIGNING CONTRACTOR TO VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING, PIPE SIZING, DRAIN POINTS, TEST CONNECTIONS, ETC., FOR STATE BUILDING CODE COMPLIANCE, INSURER COMPLIANCE, ARCHITECTURAL AND CONFORMITY. THE CONTRACTOR SHALL PROVIDE ALL DRAWINGS AND CALCS REQUIRED BY THE FIRE MARSHAL AND ENGINEER.
12. ALL FIRE PROTECTION VALVES REQUIRED TO BE LOCKED OR MONITORED BY THE N.F.P.A. SHALL BE LOCKED.
13. PROVIDE MINIMUM HAND CLEARANCE BETWEEN VALVES, WALL AND COLUMNS TO ALLOW OPERATION OF VALVES.

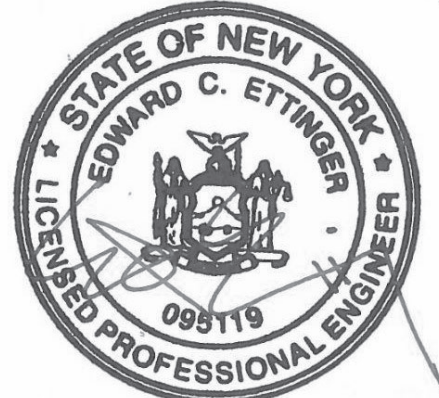


CONTRACT				
032	032E	032H	032P	N/TS
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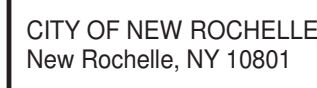
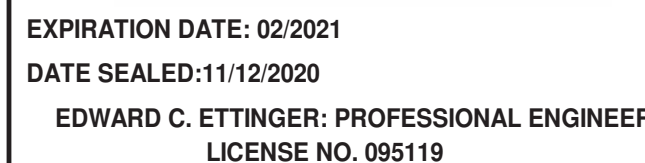
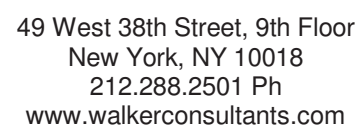
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SHEET TITLE:
PLUMBING - WATER RISER
DIAGRAM

P-200.00

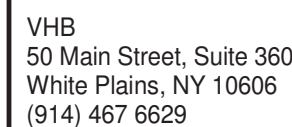


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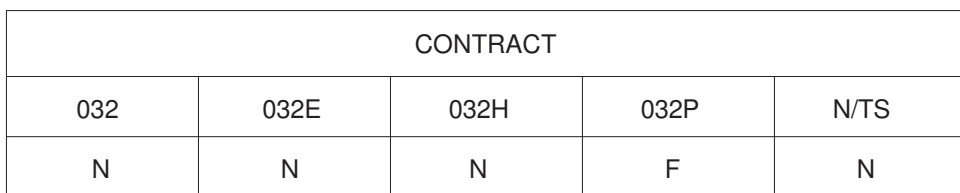


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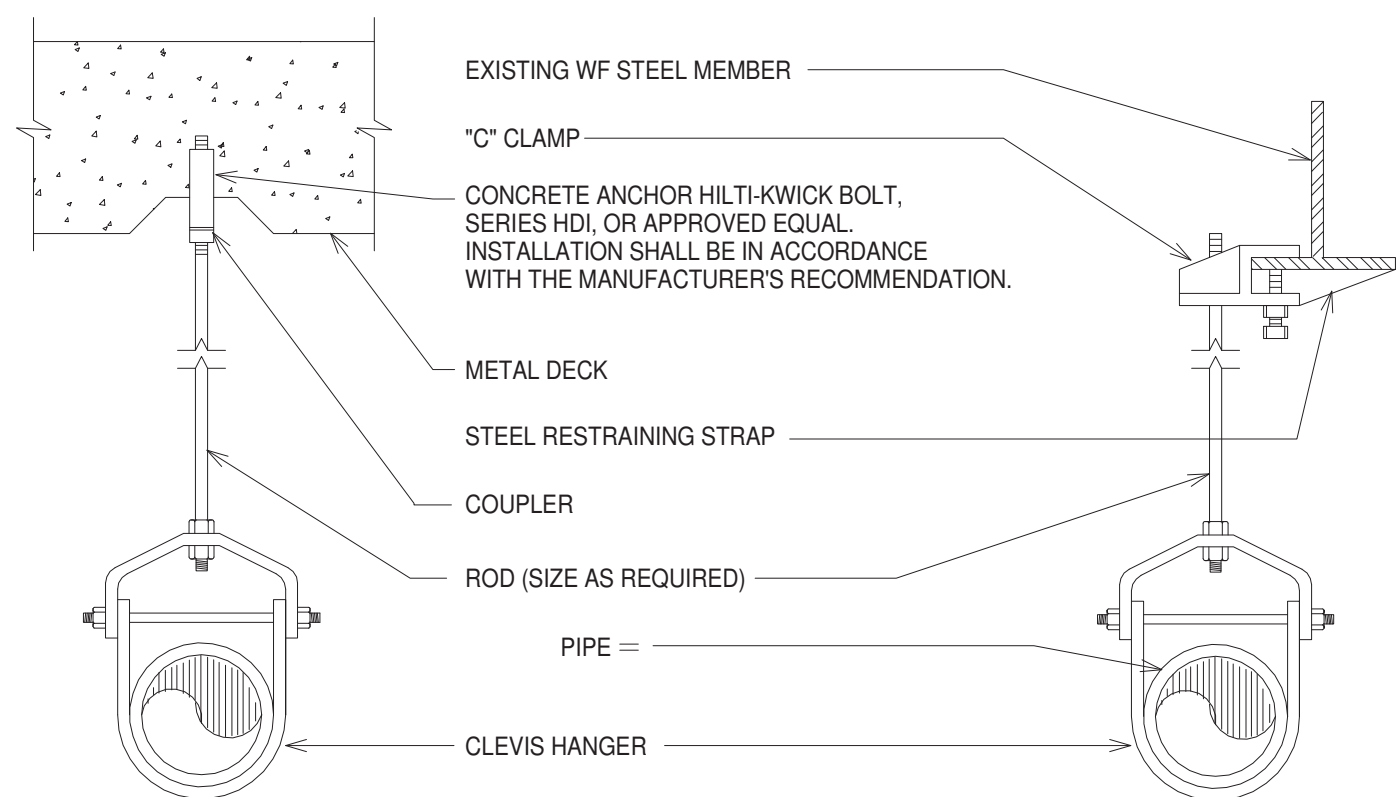
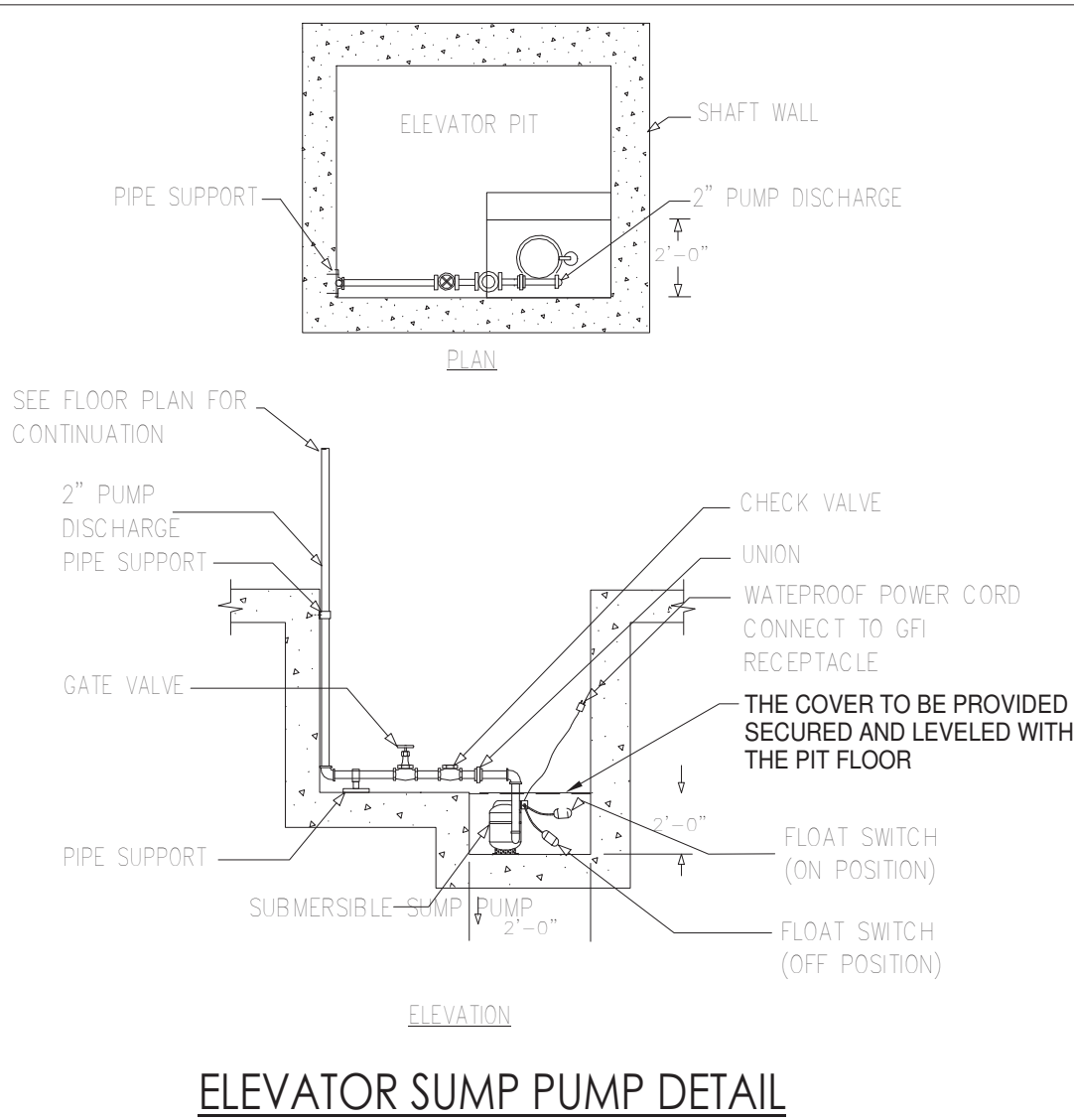
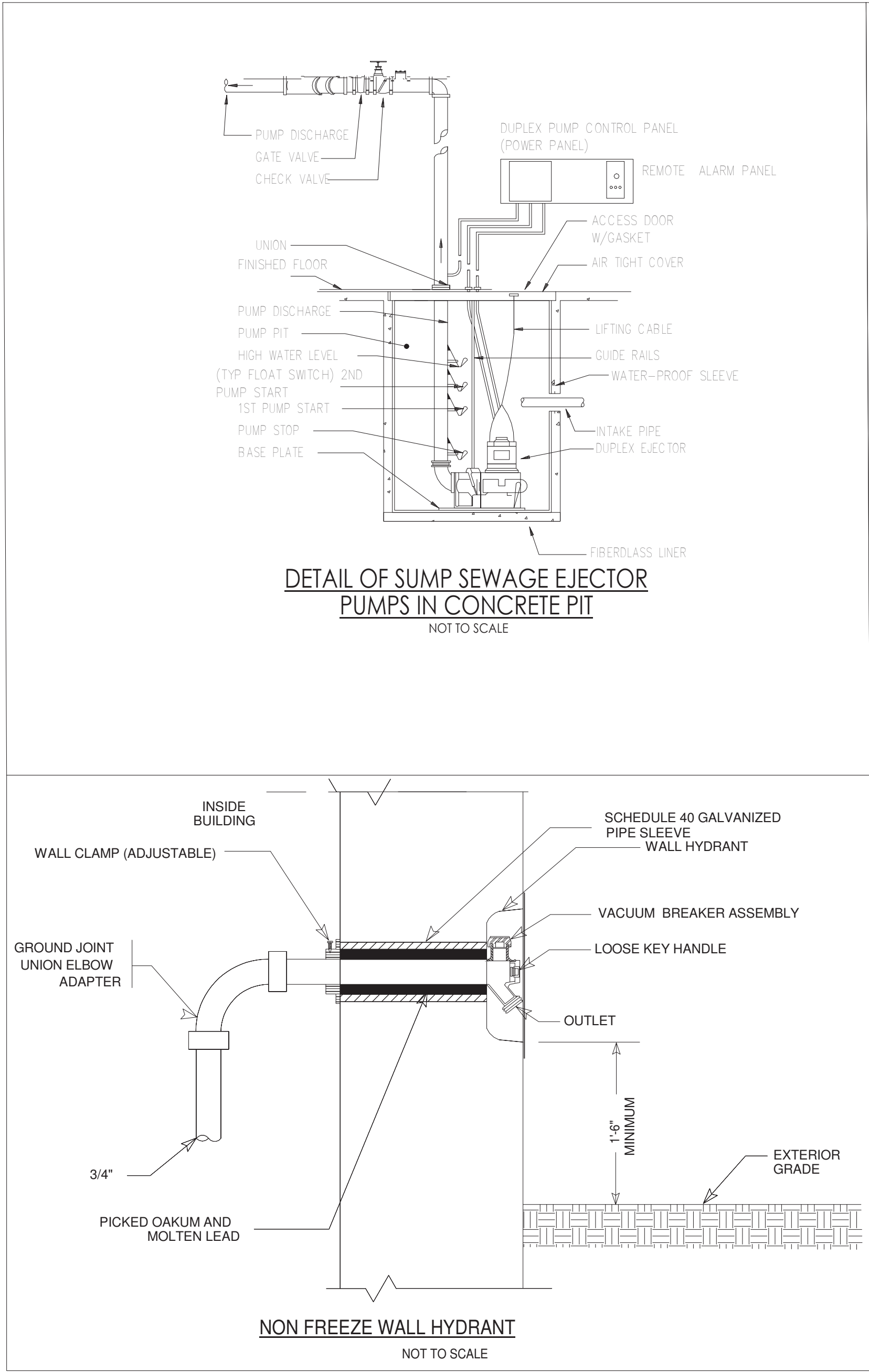
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SHEET TITLE:
PLUMBING - STORM RISER
DIAGRAM

PAGE #: 7 OF 8



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NOTES:

1. INCREASE CLEVIS HANGER SIZE TO ALLOW FOR INSULATION OF THOSE LINES REQUIRING INSULATION.
2. FOR INSULATED LINES USE STEEL PIPE SHIELDS AT HANGER POINTS.
3. THE ABOVE DETAIL SHALL BE USED ONLY FOR LINES UP TO AND INCLUDING 4\"/>

<u>PIPE SIZE</u>	<u>MAX. HANGER SPACING</u>	<u>MIN. ROD SIZE</u>
1/2" TO 1"	7' O.C.	3/8"
1-1/4" TO 2"	9' O.C.	1/2"
2-1/2" TO 4"	10' O.C.	1/2"

CONTRACT				
032	032E	032H	032P	N/TS
N	N	N	F	N

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GENERAL NOTES:

1. ALL DRAINAGE PIPING ABOVE GRADE SHALL BE CAST IRON W/ NO-HUB CONNECTIONS. ALL DRAINAGE PIPING BELOW GRADE SHALL BE CAST IRON WHUB AND SPICOT CONNECTIONS. SLOPE ALL DRAINAGE PIPING AT 1/8\"/>



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Contract 20-032

New Rochelle, NY

8	01/22/2021	ISSUED FOR PLUMBING BIDDING
7	12/18/2020	ISSUED FOR CONSTRUCTION
6	12/16/2020	NRP/TS BULLETIN #1
5	11/12/2020	BUILDING PRECAST BIDDING
4	10/20/2020	BUILDING PERMIT RESUBMISSION 2
3	09/25/2020	BUILDING PERMIT RESUBMISSION
2	09/17/20	95%CD-BID SET
1	08/17/20	ISSUED FOR PERMIT

MARK	DATE	REVISIONS
CONSTRUCTION DOCUMENTS		
ISSUE DATE: 11/23/2020		
PROJECT NO: 2477		
DRAWN BY: P.C.		
CHECKED BY: E.E.		

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SHEET TITLE:
PLUMBING - DETAILS

P-300.00