

SYMBOL & ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
—	AFF	ABOVE FINISHED FLOOR
—	AHC	ABOVE HUNG CEILING
—	BFP	BACK FLOW PREVENTOR
—	VTR	VENT THROUGH ROOF
—	FAI	FRESH AIR INTAKE
—	FS	FLOOR SINK
—	RPZ	REDUCED PRESSURE ZONE – BFP
—	TYP	TYPICAL
—	H.W. HTR	HOT WATER HEATER
—	EX.	EXISTING TO REMAIN
—	NEW	NEW WORK
- - - - -	DEM.	EXISTING TO BE REMOVED
— — — — —	CW	COLD WATER
— — — — —	HW	HOT WATER
— — — — —	TW	TEMPERED WATER
— — — — —	HWR	HOT WATER RECIRCULATION
— V —	V	VENT
— W —	W	WASTE LINE
— S —	S	SANITARY
	—	GATE VALVE
	—	GLOBE VALVE
	—	CHECK VALVE
	—	OS&Y GATE VALVE
	—	BALL VALVE
	—	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
	—	CONCENTRIC REDUCER
	—	ECCENTRIC REDUCER
	—	STRAINER
	—	FLEXIBLE CONNECTION
	—	FLOW ARROW
	—	PRESSURE GAGE
	—	PUMP
	—	THERMOMETER
	—	UNION

GENERAL NOTES

- 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, THE STATE EDUCATION DEPARTMENT MANUAL OF PLANNING STANDARDS FOR SCHOOL BUILDINGS, AND ALL LOCAL REGULATIONS THAT MAY APPLY. 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.
- NEW TOILET ROOMS SHALL BE PROVIDED WITH A FLOOR DRAIN AND A TAMPER PROOF HOSE BIBB.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT.
- 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, HOT WATER, AND GAS SUPPLY 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 WHERE INDICATED ON PLAN. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE ON THE WALL.
- PROVIDE ALL ACCESS PANELS AS REQUIRED FOR PROPER ACCESS TO ALL CLEANOUTS AND VALVES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR LOCATION WITH THE GENERAL CONTRACTOR.
- 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.
- MAINTAIN THE EXISTING WATER, SEWER, AND STORM SERVICES WHICH SERVE THE EXISTING BUILDING IN OPERATION DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ANY SYSTEM SHUTDOWNS WITH THE OWNER.
- CAPPING AND PLUGGING OF ALL PIPING SHALL BE DONE USING THE SAME MATERIAL AS THE PIPING.
- PIPING INDICATED TO BE ABANDONED SHALL BE REMOVED WHERE NECESSARY FOR INSTALLATION OF NEW PIPING OR CONSTRUCTION.
- A CLEANOUT SHALL BE LOCATED AT THE BASE OF EACH STACK AND LEADER.
- 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.

EQUIPMENT NOTES

- THIS CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING FIXTURES AND DISTRIBUTION SYSTEMS, INCLUDING ALL ROUGH-INS AND FINAL CONNECTIONS.
- FIXTURE (GENERAL):**
 - FIXTURE SHALL BE COMPLETE WITH REQUIRED TRIM, INCLUDING BUT NOT LIMITED TO: SUPPORTS, FAUCETS, SUPPLIES, STOP VALVES, 17 GAUGE WASTE TAILPIECES, TRAPS, SEATS, FLUSHOMETER, VACUUM BREAKER, BOLTS, GASKETS CHROME PLATED ESCUTCHEONS, CAST BRASS FLOOR FLANGE AND BOLT CAPS. ALL SCREWS SHALL BE VANDAL PROOF.
 - EXPOSED METAL TRIM AND ROUGHING SHALL BE CHROME PLATED NICKEL BRASS, CHROME PLATED CAST BRASS 'P' TRAPS WITH SCREW PLUG CLEANOUT, SLIP-JOINT INLET AND FEMALE CAST SWIVEL THREADED ELBOW OUTLET. CHROME PLATED BRASS NIPPLE AT WALL WITH CHROME PLATED ESCUTCHEON. SWING SPOUTS SHALL HAVE 140° SWING LIMIT STOPS.
 - SUPPORT WALL FIXTURES SECURELY ON APPROVED COMMERCIAL GRADE CARRIERS AS MANUFACTURED BY JAY R. SMITH, JOSAM, OR ZURN.

REFER TO DRAWING P-501 FOR FIXTURE SPECIFICATION AND CONNECTION SCHEDULE.
- DOMESTIC HOT WATER HEATER (DHW-1):** SHALL BE A.O. SMITH GOLD SERIES ELECTRIC WATER HEATER MODEL DRE-120-54, U.L. LISTED, 119 GALLONS STORAGE CAPACITY, 54.0 kW INPUT, 9 ELEMENTS, 6kW PER ELEMENT, 240V/1φ/60Hz HEATING ELEMENT, 246 GPH RECOVERY @ 90° F TEMPERATURE RISE, 150 PSF MAXIMUM WORKING PRESSURE. PROVIDE THE FOLLOWING: AUTOMATIC IMMERSION WATER THERMOSTAT, EXTERNALLY ADJUSTABLE TEMPERATURE RANGE 60-180° F, HIGH LIMIT THERMOSTAT, GLASS LINED WELDED STEEL TANK, POLYURETHANE FOAM INSULATION, ENAMEL FINISH, BRASS WATER CONNECTIONS & DIP TUBE, DRAIN VALVE, MAGNESIUM ANODE, ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE, AND LOCAL DISCONNECT SWITCH.
- PROTECTIVE SHIELDING GUARDS:** WHEREVER PIPING IS EXPOSED BELOW SINKS AND LAVATORIES, PROVIDE MANUFACTURED PLASTIC ENCLOSURES BY TRUEBRO FOR COVERING PLUMBING FIXTURE HOT AND COLD WATER SUPPLIES AND TRAP AND DRAIN PIPING. COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.
- HOT WATER RECIRC PUMP:** SHALL BE BASED ON BELL & GOSSET PL-36, 3 GPM, 35' TDH, 1/6 HP, 3300 RPM, 115V/1φ/60HZ. ALL PUMPS SHALL HAVE BRONZE CASING, BRONZE IMPELLER, STEEL SHAFT WITH BRONZE SLEEVE. PUMP SHALL BE FURNISHED WITH A MOTOR STARTER/DISCONNECT SWITCH AND INCLUDE INLET STRAINER. PROVIDE DOMESTIC HOT WATER CIRCULATION PUMPS WITH A PIPE MOUNTED AQUASTAT AND TIMECLOCK.
- REDUCED PRESSURE ZONE:** BACKFLOW PREVENTER SHALL BE BASED ON WATTS MODEL LF009M2QT SERIES 2" HORIZONTAL REDUCED PRESSURE ZONE WITH BALL SHUTOFF VALVES ON EITHER SIDE OF THE BACKFLOW PREVENTION DEVICE.
- MAIN HOT WATER MIXING VALVE:** SHALL BE HOLBY 1-1/2", BSA 578-48-SM, CONSTRUCTED OF ALL BRASS, RATED FOR 300 PSI, SET VALVE FOR 110° MAX. PROVIDE A QUICK SENSING AQUASTAT ON THE BUILDING HOT WATER SUPPLY LINE, WIRED TO A N.C. (POWERED OPEN) SOLENOID VALVE IN THE HOT WATER SUPPLY FROM THE BOILER(S).
- PIPE INSULATION JACKETING:** SHALL BE WHITE ZESTON 2000 PVC COVERS FOR PIPING AND FITTINGS. JACKET ALL PIPING AND FITTINGS THAT ARE EXPOSED IN ANY FINISHED ROOM.
- DOMESTIC EXPANSION TANK:** SHALL BE BASED ON AMTROL EXTROL MODEL EX-30 WITH 4.4 GALLON TANK VOLUME AND 2.5 GALLON ACCEPTANCE VOLUME. EXPANSION TANK SHALL BE ASME RATED WITH 100 PSIG WORKING PRESSURE AND 240° F 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.

DEFINITION OF TERMS

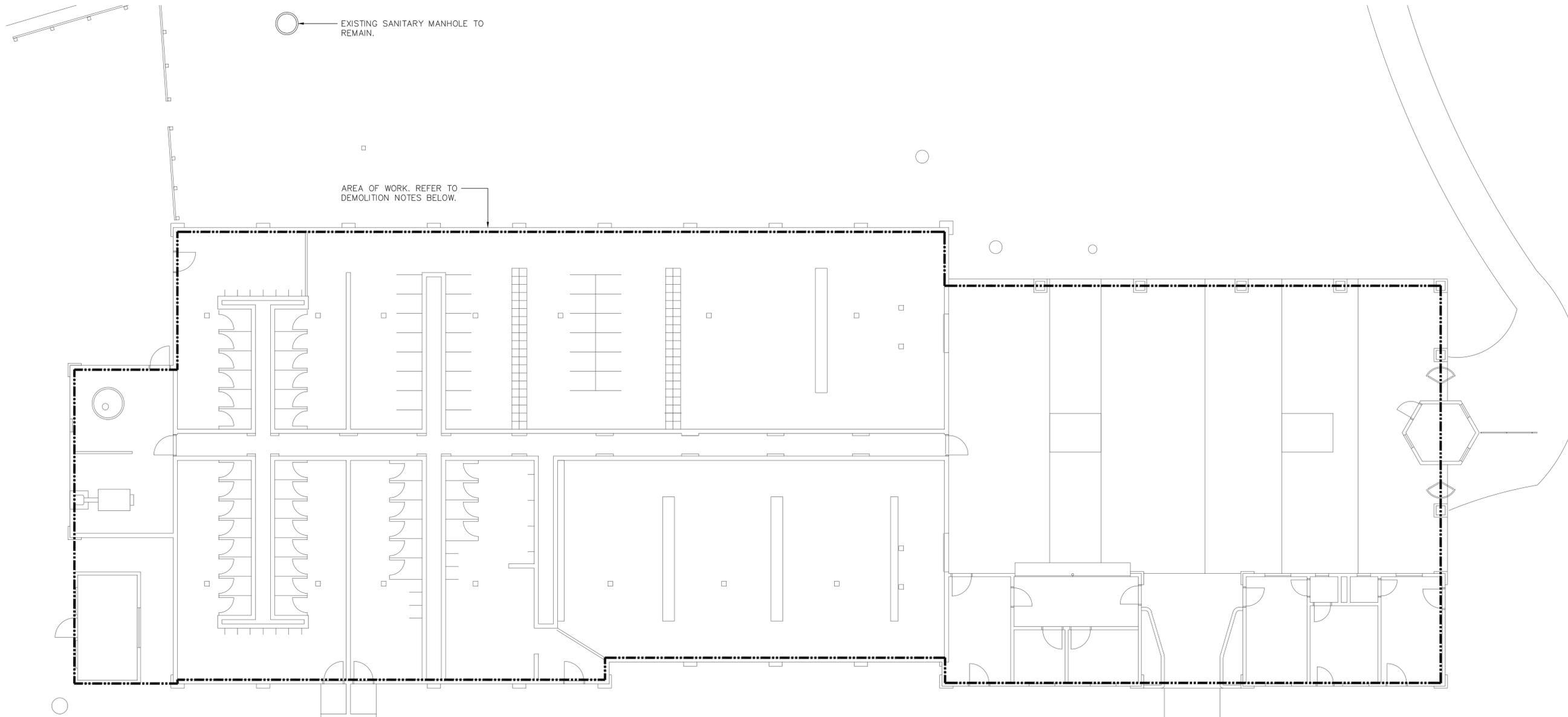
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" OR "OWNER" IS USED, IT MUST BE UNDERSTOOD THAT CROTON DPW IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
 - "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 - "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 - "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
 - "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING										
CONTRACT NUMBER 15-553	SHEET NUMBER P-001									
SHEET NO. 34 OF 53										
NEW BATHHOUSE FACILITY CROTON POINT PARK CROTON-ON-HUDSON, NY PLUMBING SYMBOLS, ABBREV. & NOTES										
SCALE: AS NOTED DATE: 6/18/21	DPW FILE NO. 2-02-P-78-0									
REV. NO. 0										

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WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS AND CONDITIONS ON THE JOB. THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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DEMOLITION NOTES:

- 1.) ALL EXISTING PLUMBING FIXTURES INCLUDING WATER CLOSETS, URINALS, SHOWERS, SHOWER DRAINS, FLOOR DRAINS, LAVATORIES AND ALL ASSOCIATED ROUGH IN, BRANCH PIPING AND SPECIALTIES SHALL BE DEMOLISHED COMPLETE UNLESS OTHERWISE NOTED (UON).
- 2.) DEMOLISH ALL ABOVEGROUND DOMESTIC HOT AND COLD WATER MAINS, BRANCH PIPING AND SPECIALTIES.
- 3.) DEMOLISH ALL ABOVEGROUND SANITARY WASTE AND VENT MAINS, BRANCH PIPING AND SPECIALTIES. DEMOLISH UNDERGROUND SANITARY WASTE PIPING AS REQUIRED FOR INSTALLATION OF NEW BUILDING. COORDINATE WITH GENERAL CONTRACTOR.
- 4.) DEMOLISH EXISTING COLD WATER SERVICE INTO BUILDING AND ASSOCIATED VALVES AND SPECIALTIES BACK TO SOURCE, STOP AND CAP.
- 5.) PLUMBING CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID IN ORDER TO ACCOMMODATE THE NEW CONSTRUCTION.



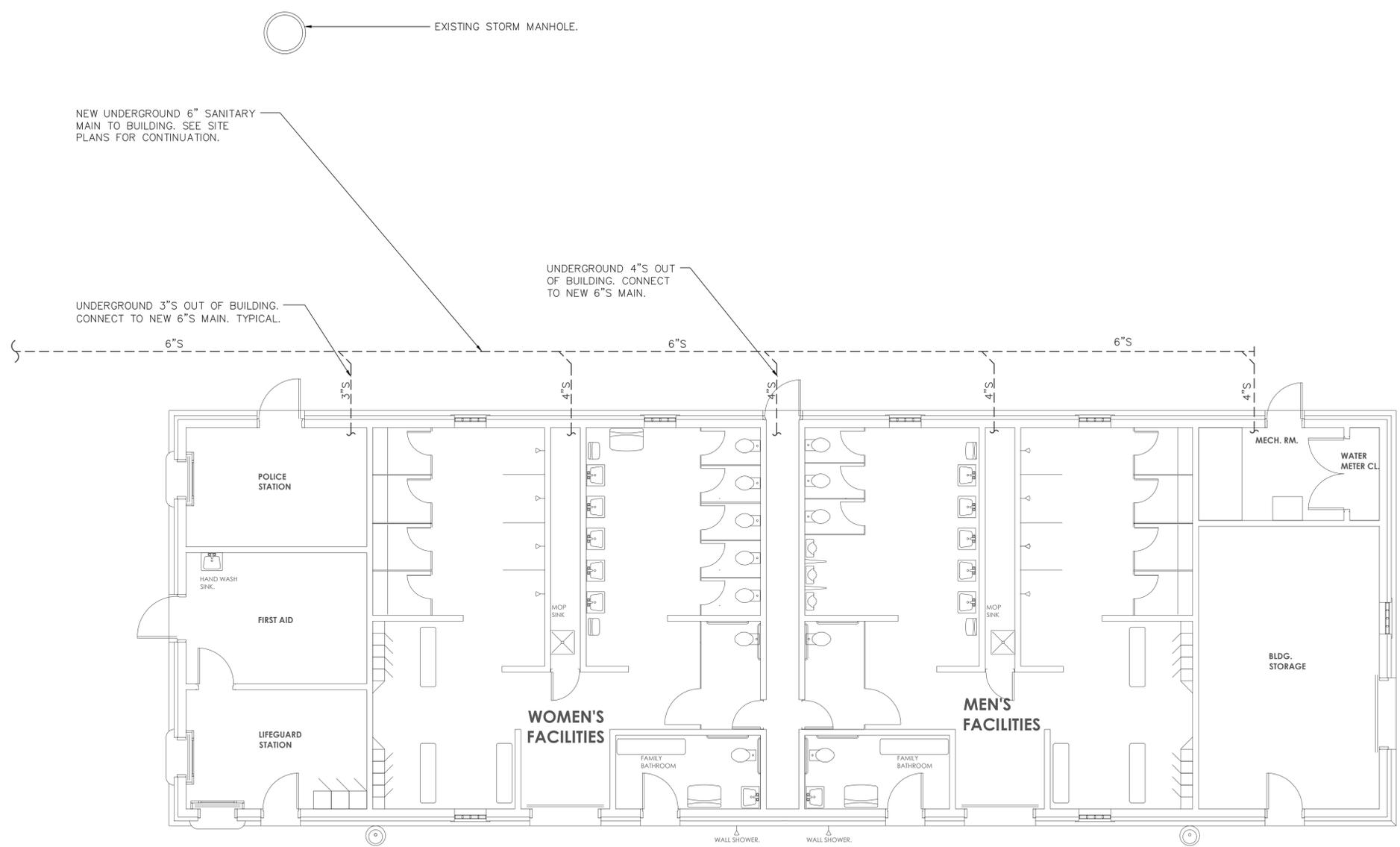
1 BATH HOUSE PLUMBING DEMOLITION PLAN

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

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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER: 15-553 SHEET NUMBER: P-101 SHEET NO. 35 OF 53 SCALE: AS NOTED DATE: 6/18/21 DPW FILE NO.: 2-02-P-79-0 REV. NO.: 0	

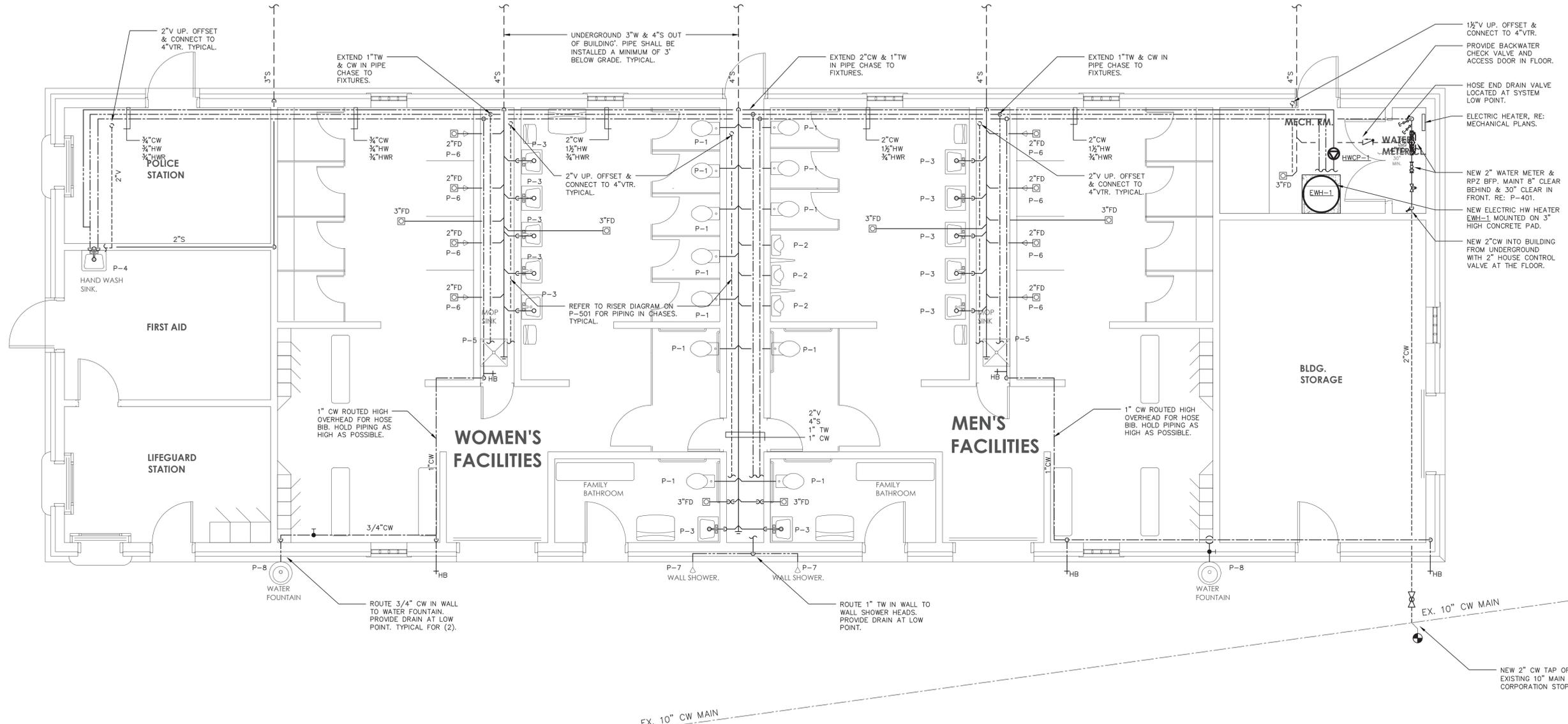



1 BATH HOUSE PLUMBING SITE SANITARY PLAN
 SCALE: 3/16" = 1'-0"
 NORTH

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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-553	SHEET NUMBER P-200								
NEW BATHHOUSE FACILITY CROTON POINT PARK CROTON-ON-HUDSON, NY PLUMBING SITE SANITARY PLAN		SCALE: AS NOTED DATE: 6/18/21	SHEET NO. 36 OF 53 DPW FILE NO. 2-02-P-80-0 REV. NO. 0								

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EX. 10" CW MAIN

EX. 10" CW MAIN

EX. 10" CW MAIN



1 BATH HOUSE PLUMBING NEW WORK PLAN

SCALE: 1/4" = 1'-0"

- NOTES:
1. PROVIDE ADEQUATE DRAIN VALVES SO THAT ALL HOT, COLD, AND TEMPERED WATER PIPING CAN BE DRAINED.
 2. PITCH ALL HOT, COLD, AND TEMPERED WATER PIPING TO ALLOW DRAIN DOWN. COORDINATE DRAIN VALVE LOCATION ACCORDINGLY.

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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING NEW BATHHOUSE FACILITY CROTON POINT PARK CROTON-ON-HUDSON, NY PLUMBING NEW WORK PLAN			CONTRACT NUMBER 15-553	SHEET NUMBER P-201
			SHEET NO. 37 OF 53	SCALE: AS NOTED
			DATE: 6/18/21	DATE: 6/18/21
			DPW FILE NO. 2-02-P-81-0	REV. NO. 0

PLOT DATE: 07/18/2021

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 THE 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 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 2" DOMESTIC WATER BACKFLOW PREVENTER ASSEMBLY SHALL BE WATTS MODEL LF009M2QT 2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER. ASSEMBLY SHALL BE LEAD FREE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 180°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT SEATED ISOLATION VALVES, FOUR RESILIENT SEATED TEST COCKS AND AN AIR GAP DRAIN FITTING.
2. PRESSURE REDUCING VALVE (PRV): WATTS LFN223BS WITH ADJUSTABLE PRESSURE RANGE.
3. THE 2" DOMESTIC WATER METER WITH INTEGRAL STRAINER SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL WATER UTILITY. FINAL WATER METER AND SIZE, MODEL, AND DIMENSIONS SHALL BE DETERMINED & APPROVED BY THE LOCAL WATER UTILITY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION AND ALL RELATED WATER DEPARTMENT FEES.

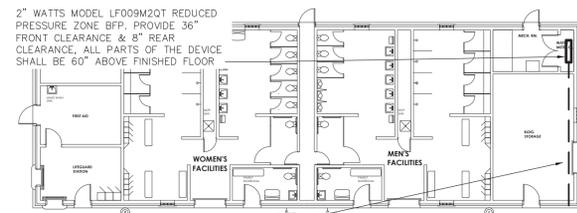
INSTALLATION NOTES:

- A. 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.

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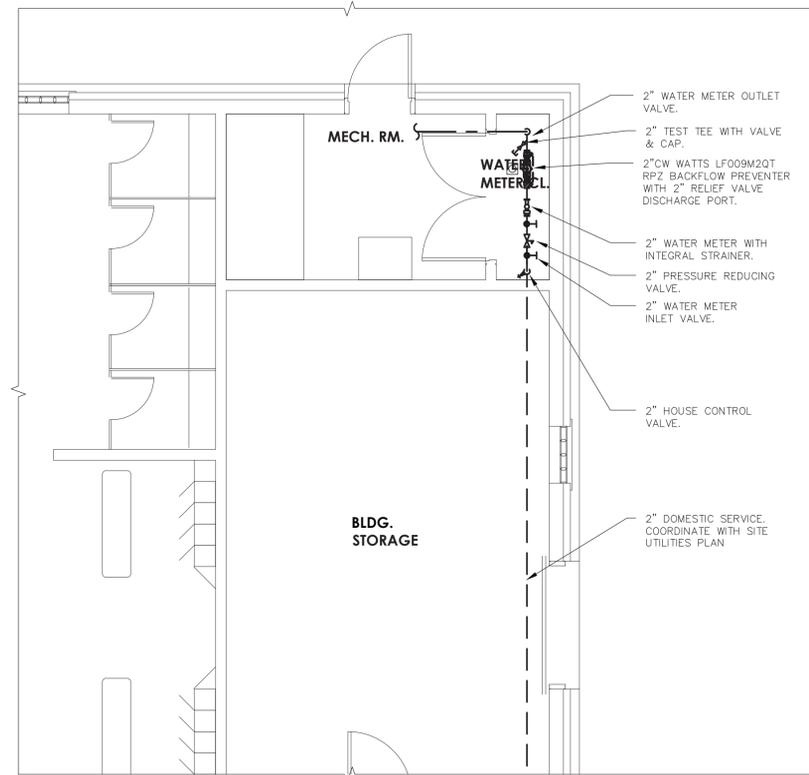
2" CW SERVICE FROM MAIN. REFER TO SITE UTILITY PLANS BY ARCHITECT

APPROXIMATE LOCATION OF EXISTING 10" WATER MAIN

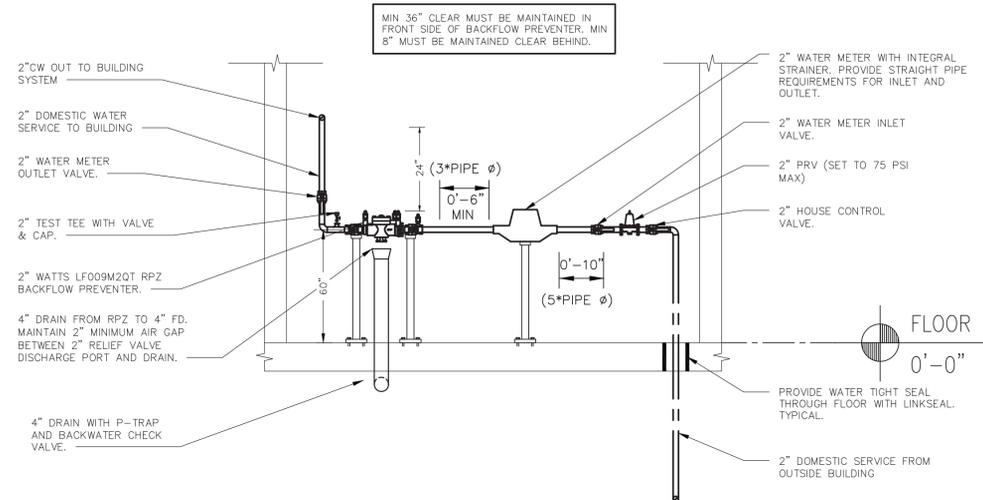
4 SITE PLAN
SCALE: 1/32" = 1'-0"
NORTH

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



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

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

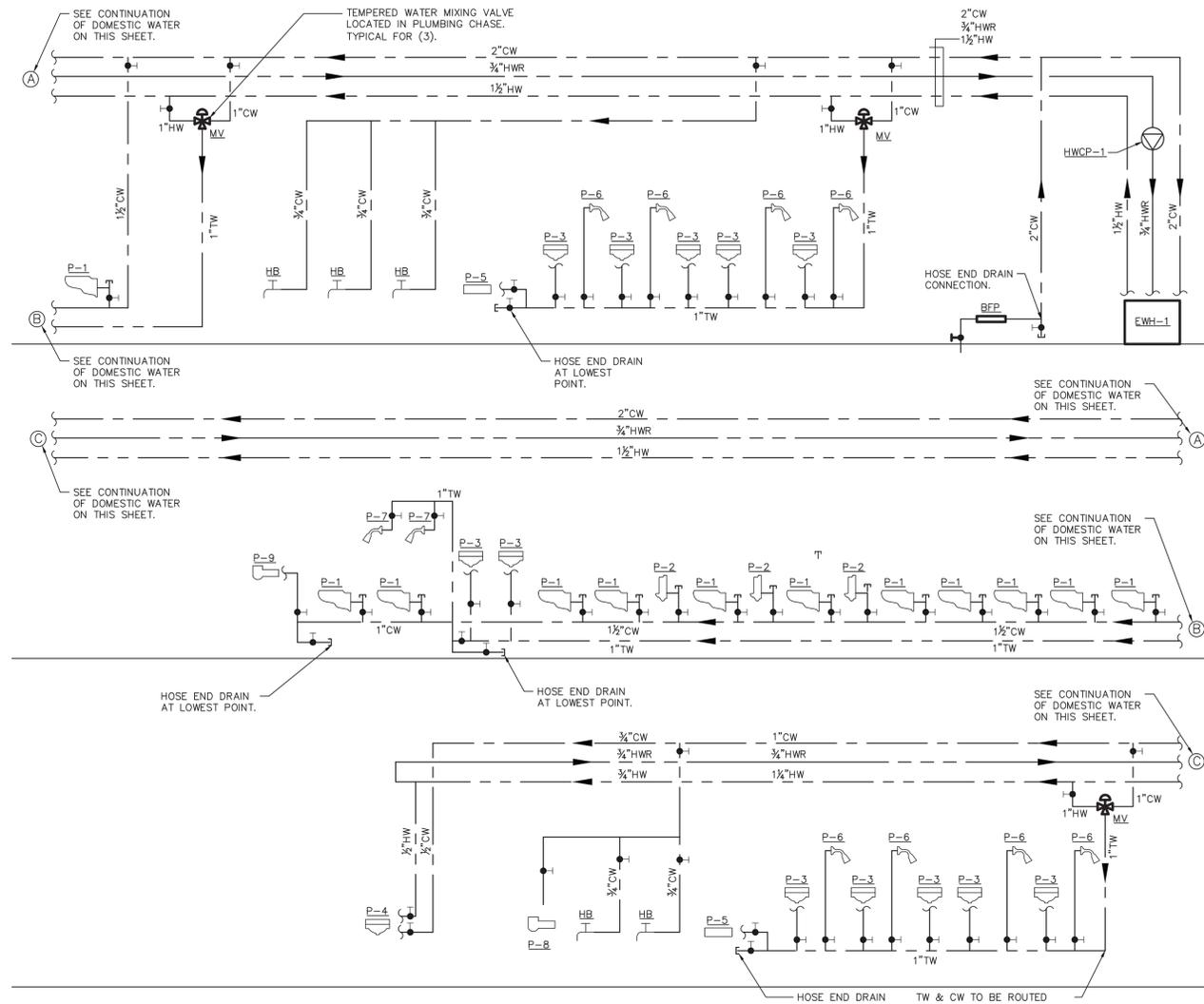
BUILDING INFORMATION

ADDRESS: CROTON POINT PARK, CROTON, NY 10595
COUNTY: WESTCHESTER COUNTY



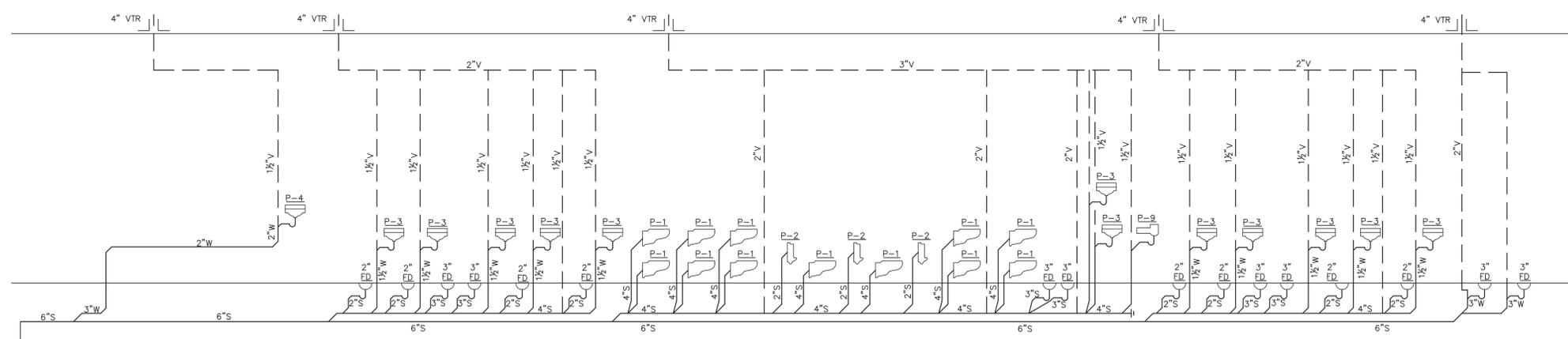
1 SITE LOCATION MAP
SCALE: NTS
NORTH

OLA Consulting Engineers 60 Broadway, Hawthorne, NY 10592 914.747.2800 8 West 38th Street, Suite 501 New York, NY 10018 646.848.4110 olace.com				
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CONTRACTOR NAME: _____ SIGNATURE: _____ TITLE: _____ DATE: _____		PROJECT COORDINATOR NAME: _____ SIGNATURE: _____ TITLE: _____ DATE: _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 15-553	SHEET NUMBER P-401	SHEET NO. 38 OF 53
NEW BATHHOUSE FACILITY CROTON POINT PARK CROTON-ON-HUDSON, NY PLUMBING BACKFLOW PREVENTER PART PLANS		SCALE: AS NOTED DATE: 6/18/21	DPW FILE NO. 2-02-P-82-0	REV. NO. 0



NOTE:
 1.) ALL WATER SUPPLY PIPING TO BE PITCHED TO ALLOW FOR DRAINAGE VIA LOW POINT DRAINS.
 TW & CW TO BE ROUTED BELOW ALL FIXTURE CONNECTIONS TO ALLOW FOR DRAINING OF WATER. TYPICAL FOR ALL PLUMBING CHASES.

2 PLUMBING DOMESTIC WATER RISER DIAGRAM
 SCALE: NONE



1 PLUMBING SANITARY/VENT RISER DIAGRAM
 SCALE: NONE

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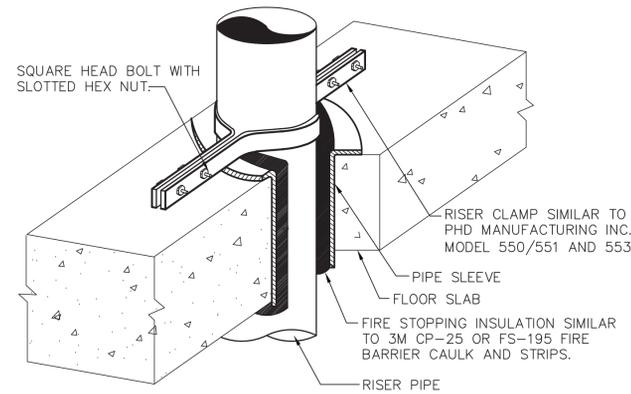
IN CHARGE OF: _____
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 MADE BY: _____

PLUMBING FIXTURE SCHEDULE										
TAG	SYMBOLS		FIXTURES	PLUMBING CONNECTIONS					EQUIPMENT NOTES	
	PLAN	ELEVATION		WASTE	INDIRECT	VENT	COLD WATER	HOT WATER		TEMPERED WATER
P-1			WATER CLOSET WALL HUNG	4"	-	2"	1 1/2"	-	-	AMERICAN STANDARD "AFWALL MILLENNIUM" TOILET MODEL #3351.101, WALL MOUNTED, ADA COMPLIANT, BACK OUTLET, ELONGATED BOWL, 1.6 GALLONS PER FLUSH, DIRECT-FED SIPHON JET ACTION, WHITE VITREOUS CHINA WATER CLOSET. FLUSH VALVE SHALL BE AMERICAN STANDARD MODEL 606B.161, HARD WIRED AC POWER KIT. SEAT SHALL BE AMERICAN STANDARD MODEL #5901.100 HEAVY DUTY OPEN FRONT SEAT, LESS COVER. PROVIDE EXTRA HEAVY DUTY WALL CARRIER RATED FOR 750 LBS.
P-2			URINAL	1 1/2"	-	1 1/2"	3/4"	-	-	KOHLER "BARDON" MODEL K-4991-ET, ADA COMPLIANT, WALL HUNG, WHITE VITREOUS CHINA, HIGH EFFICIENCY URINAL. FLUSH VALVE SHALL BE AMERICAN STANDARD MODEL 606B.161, HARD WIRED AC POWER KIT, ADA COMPLIANT, CHROME PLATED, 0.5 GALLONS PER FLUSH.
P-3			LAVATORY	1 1/2"	-	1 1/2"	-	-	1/2"	AMERICAN STANDARD "MURRO" WALL-HUNG LAVATORY, MODEL #0955.001, CENTER HOLE ONLY, WHITE VITREOUS CHINA, ADA COMPLIANT. FAUCET SHALL BE DELTA COMMERCIAL MODEL 590T0190 SINGLE ELECTRONIC HARD WIRED FAUCET, POLISHED CHROME, SINGLE HOLE INSTALLATION WITH VANDAL-RESISTANT SPRAY OUTLET. FAUCET SHALL BE RATED FOR 0.35 GPM.
P-4			HAND SINK	1 1/2"	-	1 1/2"	1/2"	1/2"	-	ADVANCE TABCO STAINLESS STEEL HAND SINK MODEL 7-PS-20, 17 1/2" X 17 1/2" O.D. WITH 5" DEEP BOWL, 4" ON CENTER DECK MOUNTED CENTERSET FAUCET FURNISHED WITH AERATOR, STAINLESS STEEL DRAIN OUTLET. PROVIDE SUPPLY STOPS & P-TRAP. PROVIDE ALL REQUIRED MOUNTING BRACKETS.
P-5			MOP SINK	3"	-	1 1/2"	-	-	1/2"	AMERICAN STANDARD "AKRON" WALL-MOUNTED SERVICE SINK MODEL 7695.008, WITH DRILLED BACK 2 HOLES ON 8" CENTERS WITH RIM GUARD, ENAMELED CAST IRON, ENAMELED HANGER AND RIM GUARD. FAUCET SHALL BE AMERICAN STANDARD MODEL #8340.235 EXPOSED YOKE WALL MOUNT UTILITY FAUCET, POLISHED CHROME FINISH. PROVIDE AMERICAN STANDARD #7798.030 CAST IRON "P" TRAP STANDARD TO WALL AND STRAINER FOR 3" IRON PIPE.
P-6			SHOWER	2"	-	1 1/2"	-	-	1/2"	SPEAKMAN ANYSTREAM 8 JET SHOWERHEAD, MODEL S-2251-E2, SOLID BRASS CONSTRUCTION, 2.0 GPM FLOW CONTROL, POLISHED CHROME FINISH. VALVE TRIM SHALL BE SPEAKMAN SM-5000 ANTI-SCALD THERMOSTATIC/PRESSURE BALANCED SHOWER VALVE, CHROME PLATED BRASS WALL PLATE AND LEVEL HANDLE, BRASS BODY WITH INTEGRAL SPRING CHECK STOPS, VANDAL RESISTANT.
P-7			OUTDOOR SHOWER	-	-	1 1/2"	-	-	1"	OUTDOOR SHOWER COMPANY WALL MOUNTED COLD WATER SHOWER MODEL WM-442-ADA, DEL-78 1.75 GPM STAINLESS STEEL SHOWER HEAD, SR-40 1/2" X 3/8" 304 SCH 40 STAINLESS STEEL RISER THREADED BOTH ENDS, WB-2 2" STAINLESS STEEL WALL BRACKET AND FLANGE. PROVIDE MODEL AV-442-ADA METERED PUSH HANDLE CHROME PLATED ANGLE VALVE.
P-8			DRINKING FOUNTAIN	1 1/2"	-	-	1/2"	-	-	MURDOCK WALL MOUNTED BARRIER FREE DRINKING FOUNTAIN GR SERIES MODEL GRC74, ALL STAINLESS STEEL, ADA COMPLIANT, 18 GAGE, 304 STAINLESS STEEL BOWL, 12 GAGE HEAVY DUTY STAINLESS STEEL ARM, CORROSION & SCRATCH RESISTANT FINISH, POLISHED CHROME PLATED BRASS, ANTI-ROTATION NON-SQUIRT BUBBLER, 100 MESH INLET STRAINER, 1-1/4" P-TRAP, VANDAL RESISTANT BOTTOM STAINLESS STEEL PLATE & SCREWS, MOUNTING PLATE, FREEZE RESISTANT VALVE.
FD			FLOOR DRAIN	2"/3"	-	1 1/2"	-	-	-	FOR SHOWERS: ZURN Z451 SHALLOW TRAP DRAIN WITH TYPE B STRAINER, 3" PIPE SIZE WITH 6" ROUND NICKEL-BRONZE HEEL-PROOF STRAINER, CAST IRON BODY, CAST IRON DRAINAGE FLANGE, VANDAL PROOF SECURED TOP OR APPROVED EQUAL. FOR TOILET ROOMS: ZURN ZN-460B 2" PIPE SIZE SHALLOW BODY FLOOR DRAIN WITH SIDE OUTLET AND 6" TYPE B POLISHED NICKEL BRONZE STRAINER, DURA COATED CAST IRON BODY WITH SEEPAQUE SLOTS AND VANDAL PROOF SECURED TOP. PROVIDE 2" CAST IRON P-TRAP WITH SIDE INLET. FOR MECHANICAL ROOM: ZURN ZN-415B WITH CAST IRON BODY, CAST IRON DRAINAGE FLANGE, SEDIMENT BUCKET, FLASHING COLLAR, 8" ROUND HEAVY DUTY CAST IRON GRATE OR APPROVED EQUAL. PROVIDE DEEP SEAL TRAP WITH PRIMING TAP.
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 SCORIALIZED NICKEL-BRONZE TOP. WADE #W-6000 OR APPROVED EQUAL. PROVIDE HEAVY DUTY CAST IRON TOP FOR MECHANICAL ROOMS.
HB			HOSE BIB	-	-	-	3/4"	-	-	IN FINISHED AREAS, WASHDOWN FAUCET SHALL BE POLISHED CHROME-PLATED WALL FAUCET WITH WALL FLANGE, 1/2" INLET, 3/4" HOSE THREAD OUTLET AND REMOVABLE LOOSE KEY T-HANDLE. CHICAGO #293-6 WITH #27 VACUUM BREAKER OR ACCEPTABLE EQUIVALENT.
NFHB			NON FREEZE HOSE BIB	-	-	-	3/4"	-	-	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.
MV			TEMPERED WATER MIXING VALVE	-	-	-	1"	1"	1"	TEMPERED WATER MIXING VALVE: SHALL BE WATTS MODEL LFL1170-M2, 1" HOT WATER TEMPERATURE CONTROL VALVE. OUTLET WATER TEMPERATURE SHALL BE SET TO 80°F. LEAD FREE VALVE BODY, INTEGRAL CHECK VALVES, MINIMUM SUPPLY PRESSURE 30PSI, OUTLET TEMPERATURE RANGE OF 60-120°F.

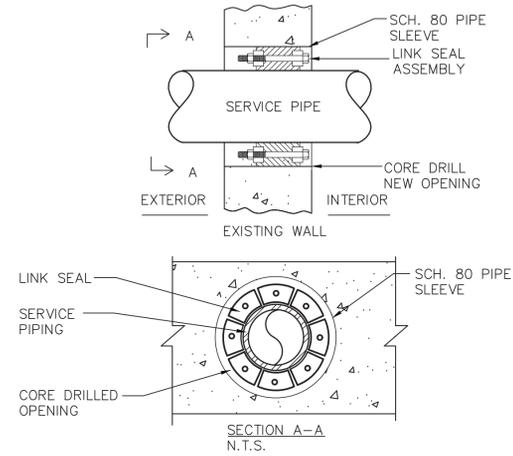
NOTE:
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NAME _____		PROJECT COORDINATOR		
SIGNATURE _____		SIGNATURE _____		
TITLE _____		TITLE _____		
DATE _____		DATE _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				
CONTRACT NUMBER 15-553		SHEET NUMBER P-501		
SHEET NO. 39 OF 53		SCALE: AS NOTED		
DATE: 6/18/21		DATE: 6/18/21		
DFW FILE NO. 2-02-P-83-0		REV. NO. 0		

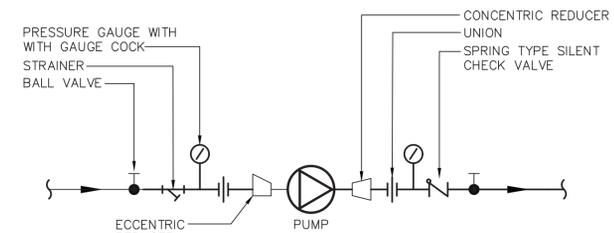


6 VERTICAL PIPE SUPPORT DETAIL
SCALE: NONE



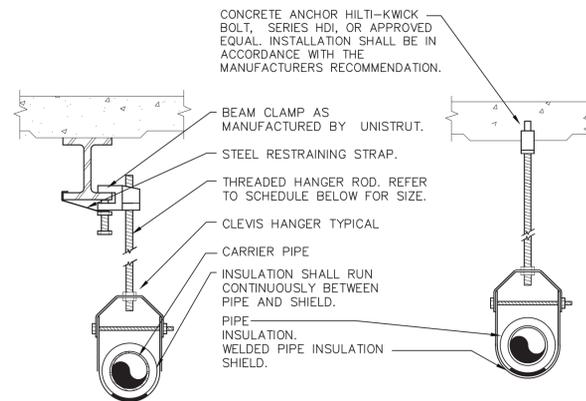
NOTES:
 1.) SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATED NUTS AND BOLTS RATED FOR AN OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
 2.) LINK SEAL ASSEMBLY SHALL BE INSTALLED ON ALL BELOW SLAB FLOOR AND WALL PENETRATIONS.

4 LINK SEAL DETAIL
SCALE: NONE



MAX. GPM	3.5	7	20	43	75
PIPE SIZE	3/4	1	1-1/2	2	2-1/2

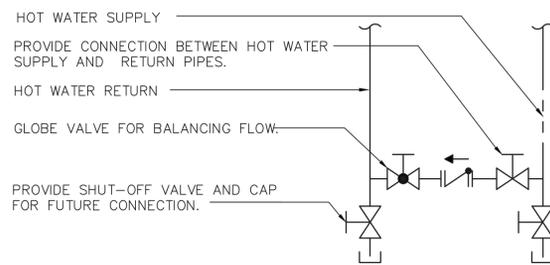
2 IN-LINE PUMP PIPING SCHEMATIC
SCALE: NONE



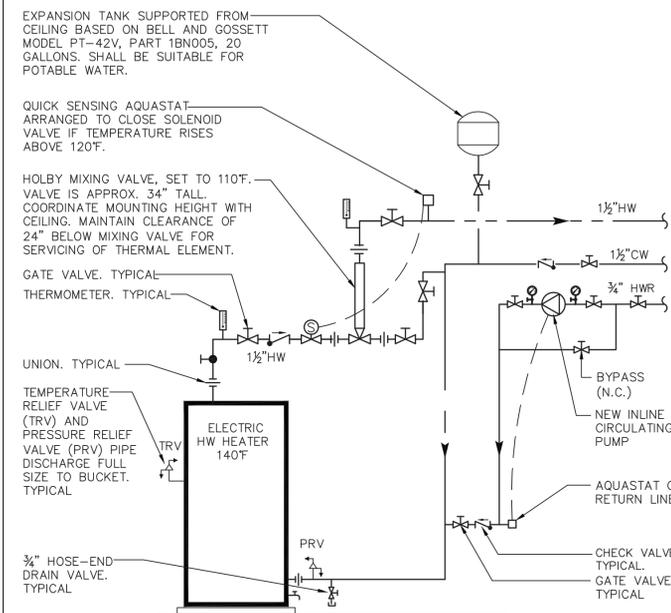
PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
 1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
 2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
 3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.

5 PIPE HANGER DETAIL
SCALE: NONE



3 HOT WATER CONNECTION DETAIL
SCALE: NONE



NOTES:
 1.) MOUNT HOT WATER HEATER ON 3" HOUSEKEEPING PAD.

1 HOT WATER HEATER PIPING SCHEMATIC
SCALE: NONE

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WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS		15-553	P-701
DIVISION OF ENGINEERING		SHEET NO. 40 OF 53	
NEW BATHHOUSE FACILITY CROTON POINT PARK CROTON-ON-HUDSON, NY, PLUMBING DETAILS		SCALE: AS NOTED DATE: 6/18/21	REV. NO.: 0
DPW FILE NO. 2-02-P-84-0			

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