

PLUMBING SYMBOL LIST

IDENTIFIER	DESCRIPTION
— CW —	DOMESTIC COLD WATER
— W —	WASTE PIPING (ABOVE SLAB)
--- W ---	WASTE PIPING (UNDER SLAB)
— S —	SANITARY PIPING (ABOVE SLAB)
--- S ---	SANITARY PIPING (UNDER SLAB)
----- V -----	SANITARY VENT PIPING
	FIELD CONNECT
	FIELD DISCONNECT
	REFER TO SUPPLEMENTAL FIGURE INDICATED BY NUMBER (I.E. F2 REFERS TO FIGURE 2)
	EQUIPMENT TAG EQUIPMENT NUMBER
	DETAIL TAG/CALL OUT TAG PLUMBING SHEET NUMBER

PIPING ELEMENTS/VALVING

	BACKFLOW PREVENTER (DOUBLE CHECK VALVE ASSEMBLY)		PIPE DROPPING DOWN
	BALL VALVE		PIPE RISING UP
	CAP ON END OF PIPE		TEE OUTLET DOWN
	CLEANOUT		TEE OUTLET UP
	FLOOR DRAIN		VALVE IN RISE OR DROP
	GATE VALVE		NON FREEZE HOSE BIBB IN BOX W/VACUUM BREAKER
	HOSE BIBB		
	VALVE IN VALVE BOX		

SCOPE OF WORK

PLUMBING SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO:

- REMOVAL OF EXISTING WATER SERVICE.
- THE INSTALLATION OF NEW PLUMBING FIXTURES AND ALL ASSOCIATED PIPING AND ACCESSORIES.
- THE INSTALLATION OF NEW SANITARY AND DOMESTIC WATER SERVICES.

NOTE: THIS SCOPE OF WORK DESCRIPTION IS PROVIDED TO GIVE AN OVERALL "MACRO" DESCRIPTION OF THIS PROJECT. P.C. IS RESPONSIBLE TO REVIEW ALL ENGINEERING & ARCHITECTURAL DRAWINGS & VISIT THE SITE IF NEEDED, PRIOR TO SUBMISSION OF BID.

CODE REFERENCE

2020 NEW YORK STATE BUILDING CODE
2020 NEW YORK STATE MECHANICAL CODE
2020 NEW YORK STATE PLUMBING CODE
2020 NEW YORK STATE ENERGY CONSERVATION CODE

SECTION 704 DRAINAGE PIPING INSTALLATION

704.1 SLOPE OF HORIZONTAL DRAINAGE PIPING.

HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE MINIMUM SLOPE OF HORIZONTAL DRAINAGE PIPE SHALL BE IN ACCORDANCE WITH TABLE 704.1.

TABLE 704.1

SLOPE OF HORIZONTAL DRAINAGE PIPE	
SIZE (INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2 1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

LEED NOTES

1. ALL ADHESIVES, SEALANTS, PAINTS & COATINGS APPLIED TO THE INTERIOR OF THE BUILDING (WITHIN THE WEATHER PROOFING SYSTEM, INCLUDING WALL CAVITIES) MUST NOT EXCEED THE LEED VOC LIMITS. PROVIDE A VOC SUBMITTAL AND MSDS FOR ALL ADHESIVES, SEALANTS, PAINTS AND COATINGS TO BE APPLIED.

PLUMBING GENERAL NOTES:

- ALL PLUMBING WORK UNDER THIS CONTRACT SHALL CONFORM TO THE LATEST EDITION OF THE PLUMBING CODE OF NEW YORK STATE (PC-NYS), THE NEW YORK STATE ENERGY CODE, AND THE REQUIREMENTS OF THE UTILITY AND THE LOCAL WATER COMPANY.
- ALL MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
- THE PLUMBING CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL LABOR AND MATERIALS SUPPLIED AND INSTALLED UNDER THIS CONTRACT AND SHALL GUARANTEE THE WORK PERFORMED UNDER THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THIS WORK.
- PLUMBING CONTRACTOR SHALL CONSULT WITH, COOPERATE AND COORDINATE WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, SPRINKLER CONTRACTOR, ELECTRICAL CONTRACTOR, ETC. IN ORDER TO MINIMIZE INTERFERENCES BETWEEN TRADES DURING PERFORMANCE OF THIS WORK.
- THE PLUMBING CONTRACTOR SHALL PREPARE AND FILE ALL REQUIRED PLANS AND PERMITS WITH THE LOCAL AUTHORITIES. PC SHALL PAY THE FILING FEES AS REQUIRED. PC SHALL OBTAIN ALL APPROVALS AND SHALL PAY FOR ALL WORK PERMITS, INSPECTIONS AND SIGN-OFFS AS REQUIRED TO EXECUTE THIS WORK IN A MANNER IN CONFORMANCE WITH THE CODES AND AUTHORITIES HAVING JURISDICTION.
- THE PLUMBING CONTRACTOR SHALL PERFORM ALL TESTS AND ARRANGE FOR ALL INSPECTIONS FOR WORK UNDER HIS CONTRACT AS REQUIRED BY LAW AND SHALL SUPPLY ALL CERTIFICATES OF INSURANCE AS REQUIRED BY THE LAW AND THE OWNER. REFER TO SECTION 107 (INSPECTIONS) OF THE PC-NYS.
- THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT REGARDLESS WHETHER ILLUSTRATED HEREIN WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.
- PLUMBING CONTRACTOR SHALL VISIT THE SITE & BECOME FAMILIAR WITH THE EXISTING CONDITIONS, INCLUDING THE SIZE OF CONNECTIONS, ROUGHING DIMENSIONS, ETC. BEFORE SUBMITTING A QUOTATION FOR THE WORK.
- PLUMBING CONTRACTOR SHALL PERFORM ALL CUTTING, EXCAVATION, BACKFILLING, ROUGH & FINISH PATCHING AS PER THE SPECIFICATIONS AS REQUIRED FOR THE INSTALLATION OF THE WORK, UNLESS NOTED OTHERWISE.
- ALL CONNECTIONS TO NEW AND/OR EXISTING EQUIPMENT SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- IT IS THE INTENT OF THIS CONTRACT THAT THE COMPLETED WORK BE FULLY OPERATIONAL.
- ALL PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED AT INTERVALS AND BE FABRICATED OF MATERIALS AS REQUIRED BY THE PC-NYS.
- ALL NEW PLUMBING FIXTURES SHALL BE INSTALLED WITH ANGLE STOP VALVES IN THE SUPPLY LINES SERVING THE FIXTURE.
- ALL NEW EXPOSED WATER AND WASTE PIPING SERVING THE FIXTURES SHALL BE CHROME PLATED AND SHALL HAVE CHROME PLATED ESCUTCHEONS RIGIDLY ATTACHED TO THE PIPING AT THE POINT OF WALL OR FLOOR PENETRATIONS.
- PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL NEW PLUMBING FIXTURES AND EQUIPMENT TO BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT FOR APPROVAL BEFORE INSTALLATION OF SAME.
- WATERPROOF PIPE SLEEVES SHALL BE INSTALLED AT ALL PENETRATIONS THROUGH EXTERIOR WALLS. PIPE SLEEVES SHALL BE INSTALLED AT ALL WALL PENETRATIONS THROUGH INTERIOR WALLS AND FLOORS.
- WATER HAMMER ELIMINATORS (APPROVED - FIELD FABRICATED OR MANUFACTURED) SHALL BE INSTALLED AT ALL RUN OUTS IN HOT AND/OR COLD WATER LINES SERVING TOILET ROOMS AND OTHER AREAS WHICH INCORPORATE "RAPID - ACTION" VALVES SUCH AS FLUSHMETERS, SOLENOID VALVES, ETC.
- ALL PIPING SHALL BE TESTED AT A MINIMUM PRESSURE OF 1-1/2 TIMES THE MAXIMUM OPERATING PRESSURE UNLESS OTHERWISE NOTED ON THE DOCUMENTS OR THE PLUMBING CODE AND IN ACCORDANCE WITH THE UTILITY REQUIREMENTS.
- ALL REMOVALS PERFORMED UNDER THIS CONTRACT SHALL INCLUDE REMOVAL OF ALL DEBRIS AND DISPOSAL AT AN APPROPRIATE SITE.
- ALL LAVATORIES DESIGNED FOR USE BY PERSONS CONFINED TO WHEELCHAIRS SHALL HAVE THE HOT & COLD WATER SERVICES, AS WELL AS THE TRAP, RECESSED & INSULATED IN ACCORDANCE WITH ADA REQUIREMENTS.
- REFER TO THE ARCHITECTURAL PLANS FOR ALL STRUCTURAL DIMENSIONS.
- ALL WORK TO BE COORDINATED WITH OTHER TRADES.
- ALL PIPING PENETRATIONS TO BE SEALED AROUND WITH "NELSON" FIRE SEAL.
- ALL WATER SERVICE PIPING WITHIN THE BUILDING IS TO BE INSULATED IN ACCORDANCE WITH ALL NEW YORK STATE PLUMBING CODE (NYS-PC) AND NYS ENERGY CODES.
- ALL PLUMBING FIXTURES TO BE INSTALLED AS PER FACTORY RECOMMENDATIONS.
- ALL PLUMBING FIXTURES TO BE TRAPPED, VENTED AND PROVIDED WITH AIR SHOCKS WHEN REQUIRED.
- PLUMBING FIXTURES SHALL COMPLY WITH "WATER CONSERVATION" REQUIREMENT AS DETAILED IN THE NYS-PC.
- GC IS RESPONSIBLE TO SUBMIT APPLICATION AND TAP FEES TO LOCAL WATER AUTHORITY AND HAVE OWNER FILL OUT APPLICATION UPON COMPLETION OF PLUMBING ROUGH-IN INSPECTION.
- ALL WATER AND HORIZONTAL STORM DRAIN PIPING INCLUDING ROOF DRAIN BODY SHALL BE INSULATED.
- FLOOR DRAINS AND FLOOR CLEAN-OUTS SHALL BE SET LEVEL WITH FINISHED FLOORS.
- ALL PIPE DIMENSIONS ARE INSIDE CLEAR.
- ALL PLUMBING FIXTURES TO HAVE ISOLATION VALVES.
- P.C. IS RESPONSIBLE TO ADJUST HOT WATER HEATER (WH) TEMPERATURE TO ENSURE A TEMPERATURE RANGE OF 110°F TO 120°F AT THE INDIVIDUAL FIXTURE OUTPUT. P.C. MUST ENSURE A TEMPERATURE OF 120°F MAXIMUM AT THE FIXTURES TO PREVENT SCALDING.
- BUILDING DOMESTIC WATER DEMAND & SIZING IS CALCULATED FROM NYS-PC SECTION 603, 604 & APPENDIX E.
- BUILDING SANITARY DEMAND & SIZING IS CALCULATED FROM NYS-PC SECTIONS 709 AND 710.
- ALL DFW CALCULATIONS ARE BASED OFF OF TABLE 709.1 OF THE NYS-PC.
- ALL SANITARY WATER PIPING SHALL BE PITCHED IN ACCORDANCE WITH NYS-PC SECTION 704 BASED ON TABLE 704.1 SLOPE OF HORIZONTAL DRAINAGE PIPE.
- ALL VENT SIZING IS BASED OFF OF SECTION 916 OF THE NYS PLUMBING CODE.
- ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.

ABBREVIATIONS:

AD	ACCESS DOOR
BFP	BACKFLOW PREVENTER
CO	CLEAN OUT
CW	COLD WATER
DCV	DOUBLE CHECK VALVE
DFU	DRAINAGE FIXTURE UNIT
DPCO	DECK PLATE CLEAN OUT
FC	FIELD CONNECT
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FU	FIXTURE UNIT
HW	HOT WATER
HWR	HOT WATER RETURN
IAW	IN ACCORDANCE WITH
IWFD	INDIRECT WASTE FUNNEL DRAIN
LAV	LAVATORY
JS	JANITOR'S SINK
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NYS-PC	NEW YORK STATE PLUMBING CODE
RD	ROOF DRAIN
S	SANITARY
SD	STORM DRAIN
TMV	THERMOSTATIC MIXING VALVE
U.O.N.	UNLESS OTHERWISE NOTED
UR	URINAL
V	VENT
WC	WATER CLOSET
PC	PLUMBING CONTRACTOR
MC	MECHANICAL CONTRACTOR
TYP.	TYPICAL
VIF	VERIFY IN FIELD
WCO	WALL CLEAN OUT
WFO	WATER FIXTURE UNITS
(N)	NEW
(E)	EXISTING
(D)	DEMO

THE ABBREVIATIONS ARE SHOWN FOR GENERAL REFERENCE ONLY. THE PRESENCE OF AN ABBREVIATION ON THIS LIST DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC ABBREVIATIONS USED.

FLOOR DRAIN SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL	SERVICE
FD-1	ADJUSTABLE	ZURN	FD-2320-R5	ALL SPACES

NOTES:

- PROVIDE THE FOLLOWING FOR FD-1: CHROME PLATED STRAINER ASSEMBLY, 6" NICKEL HEAD ASSEMBLY, AND VANDAL PROOF.
- PROVIDE BARRIER-TYPE TRAP SEAL PROTECTION DEVICE ZURN Z1072 OR APPROVED EQUAL.

CLEANOUT SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL
CO	ADJUSTABLE DECK PLATE CLEAN OUT	WATTS	CO-1200-R

DOUBLE CHECK VALVE SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	SIZE (IN)	PRESSURE DROP (PSI)
DCV-1	WATTS	LF007M1QT-S	SPRINKLER ROOM	2	6

NOTES:

- PROVIDE STRAINER FOR DOUBLE CHECK VALVE.
- LEAD FREE

WALL HYDRANT SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL
NFHB	WALL HYDRANT	ZURN	Z1320XL

PLUMBING DRAWING LIST

SHEET NO.	SHEET NAME	REVISION NO.	REVISION DATE
CXA-P-01	PLUMBING NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST	0	-
CXA-P-21	PLUMBING FIRST FLOOR CONSTRUCTION PLAN	0	-
CXA-P-81	PLUMBING DETAILS	0	-

CONSULTANT INFORMATION



LiRo Engineers, Inc.
A LiRo Group Company
Syosset, N.Y. 516-214-8157(1)

CONSULTANT SEAL



REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

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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

INFRASTRUCTURE REHABILITATION - PHASE 3
PLAYLAND PARK, RYE, NEW YORK
CROSS AXIS BUILDING A

PLUMBING NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST

CONTRACT NUMBER

22-523

DWG NO.: 155 of 664

SCALE: AS INDICATED

DATE: 08/23/2022

DPW FILE NUMBER

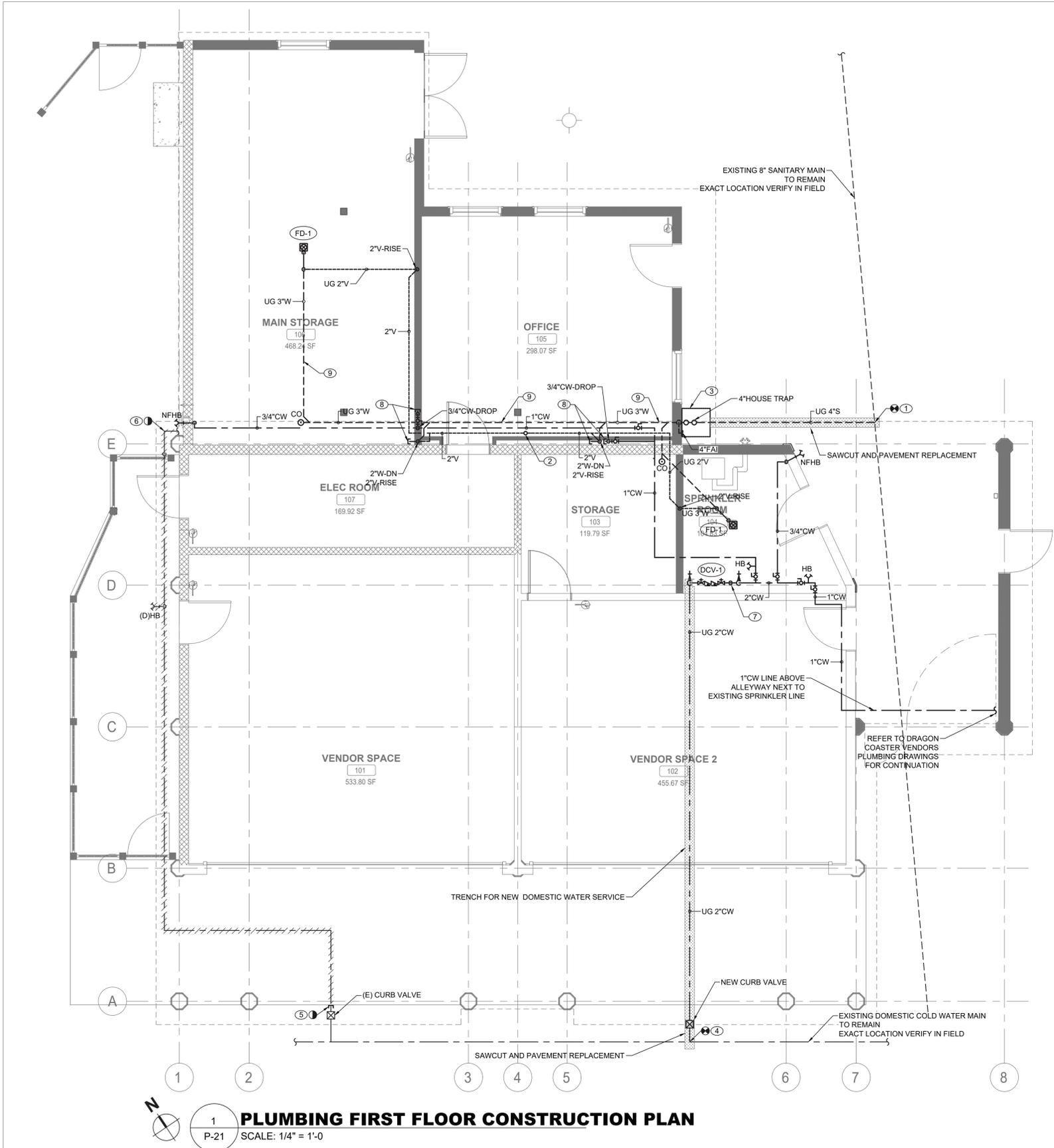
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REV. NO.

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SHEET NUMBER

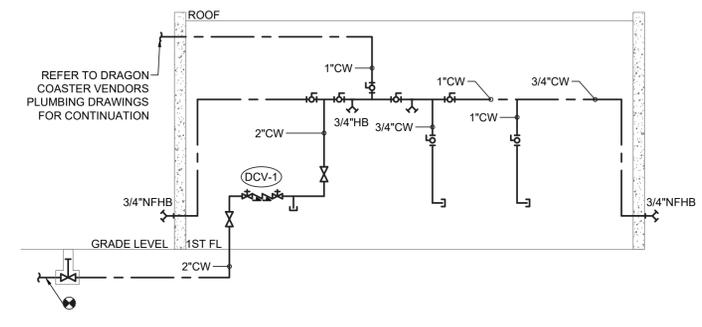
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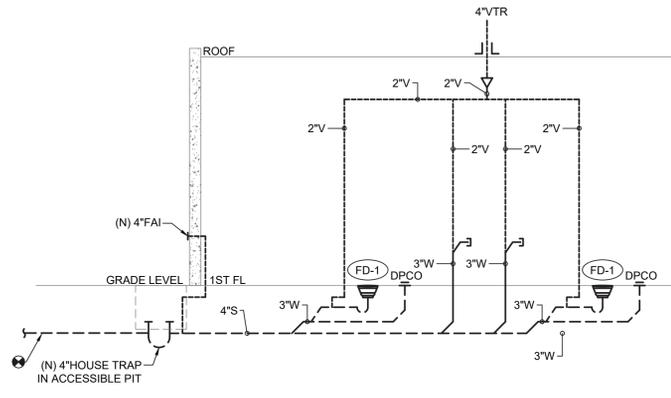
1 PLUMBING FIRST FLOOR CONSTRUCTION PLAN
 P-21 SCALE: 1/4" = 1'-0"

- PLUMBING CONSTRUCTION NOTES:**
- CONNECT NEW 4" SANITARY SERVICE TO EXISTING SEWER MAIN LOCATED AT CROSS-AXIS ALLEY WEST. CONTRACTOR TO VERIFY THE INVERT, SIZE, AND MATERIAL OF THE EXISTING SEWER PIPING TO FACILITATE NEW SANITARY SERVICE CONNECTION.
 - PROVIDE NEW 4" VENT THRU ROOF.
 - PROVIDE NEW 4" HOUSE TRAP IN PIT. PROVIDE ACCESS DOOR FOR MAINTENANCE. PROVIDE 4" FRESH AIR INTAKE THRU EXTERIOR WALL. TERMINATE VENT WITH INSECT SCREEN. HOUSE TRAP SHALL BE PROTECTED FROM FREEZING.
 - CONNECT NEW 2" DOMESTIC COLD WATER SERVICE TO EXISTING WATER MAIN LOCATED AT CROSS-AXIS ALLEY WEST. PROVIDE CURB VALVE WITH VALVE BOX.
 - CUT AND PERMANENTLY CAP EXISTING WATER SERVICE BELOW GROUND. ABANDON IN PLACE EXISTING WATER SERVICE PIPING, REMOVE PORTIONS OF PIPING THAT EXPOSED OR IN CONFLICT WITH NEW CONSTRUCTION.
 - REMOVE EXISTING WATER LINE UP TO PLUMBING FIXTURES LOCATED WITHIN DRAGON COASTER VENDOR SPACE.
 - PROVIDE A COMPRESSED AIR CONNECTION FOR WINTERIZING.
 - PROVIDE 2"W AND 3/4"CW STUB-UP FOR FUTURE SINK WITHIN NEW WALL. CONNECTION SHALL BE ACCESSIBLE AFTER CONSTRUCTION.
 - COORDINATE LOCATION OF NEW UNDERGROUND PIPING WITH STRUCTURAL ELEMENTS. PROVIDE REQUIRED SLEEVES AND SUPPORTS.

- GENERAL NOTES:**
- COORDINATE WITH FACILITY PRIOR TO SHUTDOWN OF WATER DISTRIBUTION SYSTEM FOR ANY DEMOLITION AND CONSTRUCTION WORK.
 - PROVIDE DRAIN VALVES AT BOTTOM FOR EACH BRANCH. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE CEILING AND BEHIND WALLS.
 - INSTALL NEW WATER PIPING WITH PROPER SLOPES TO AVOID WATER TRAPS DURING WINTER SEASON.
 - CONTRACTOR TO COORDINATE WITH FACILITY WHEN WORKING AROUND OR ABOVE THE RIDE COMPONENTS, AND PROVIDE ALL NECESSARY MEASURES TO PROTECT THESE COMPONENTS PER THE REQUIREMENTS OF THE FACILITY.
 - UPON COMPLETION, SYSTEM SHALL BE TESTED FOR PROPER OPERATION.
 - SEWER CROSSING WATER MAINS, CONDUITS, OR OTHER UTILITY SHALL BE MINIMUM 18" CLEARANCE BETWEEN THE OUTSIDE OF THE UTILITY AND OUTSIDE OF THE SEWER. THE CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.



2 DOMESTIC WATER RISER DIAGRAM
 P-21 SCALE: NOT TO SCALE



3 SANITARY RISER DIAGRAM
 P-21 SCALE: NOT TO SCALE

CONSULTANT INFORMATION

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CONSULTANT SEAL

STATE OF NEW YORK
 FRANK F. LISBEE
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 No. 099111111

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

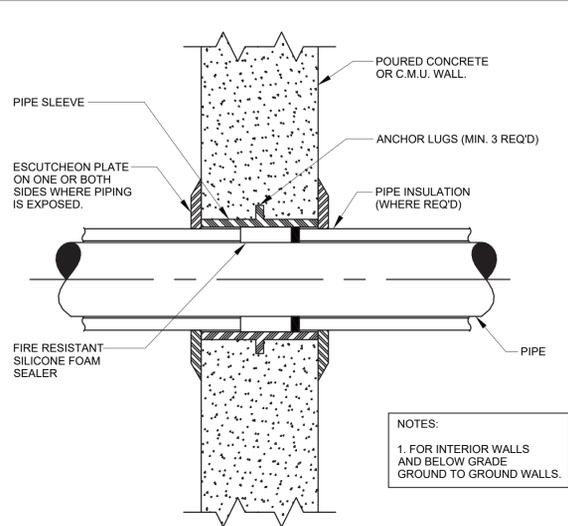
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CONTRACTOR		PROJECT COORDINATOR	
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WESTCHESTER COUNTY, NEW YORK
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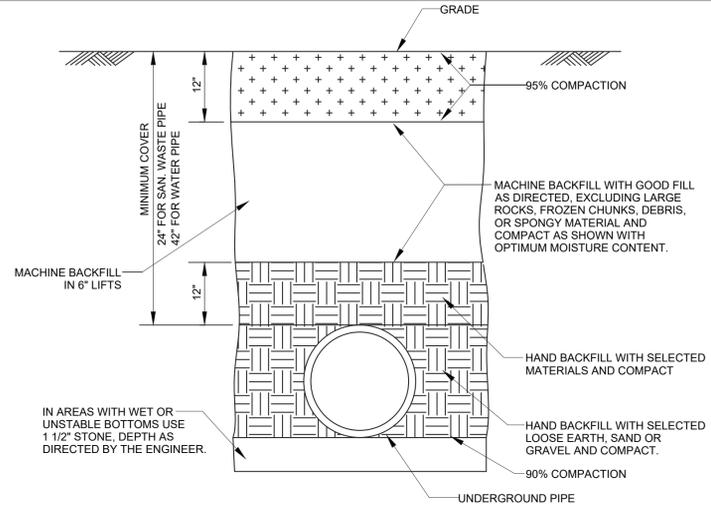
**INFRASTRUCTURE REHABILITATION - PHASE 3
 PLAYLAND PARK, RYE, NEW YORK
 CROSS AXIS BUILDING A
 PLUMBING FIRST FLOOR CONSTRUCTION PLAN**

CONTRACT NUMBER 22-523	SHEET NUMBER CXA-P-21
DWG NO.: 156 of 664	
SCALE: AS INDICATED	
DATE: 08/23/2022	
DPW FILE NUMBER 1-118-P-905-0	REV. NO. 0

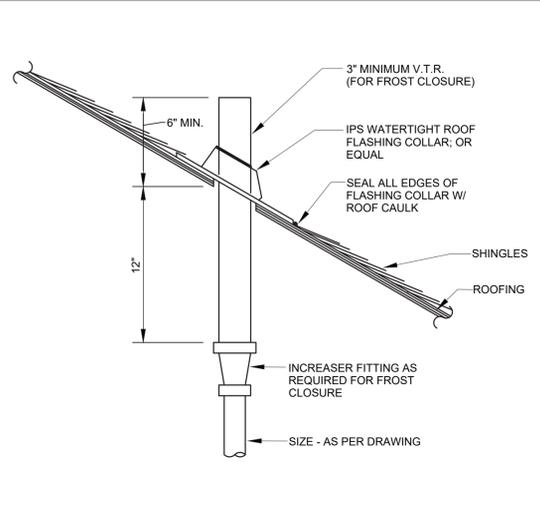


NOTES:
1. FOR INTERIOR WALLS AND BELOW GRADE GROUND TO GROUND WALLS.

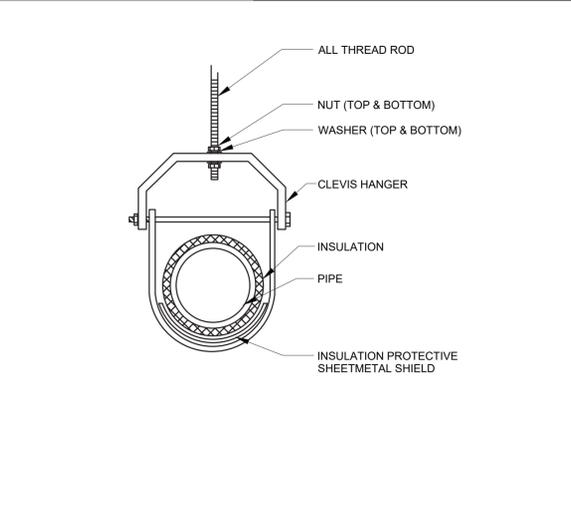
1 PIPE SLEEVE THROUGH WALL DETAIL
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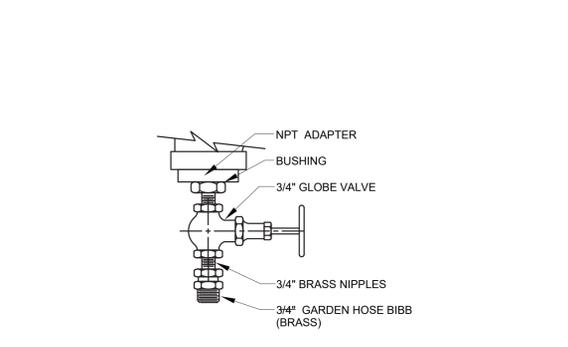
2 PIPE TRENCH DETAIL
P-81 SCALE: NOT TO SCALE



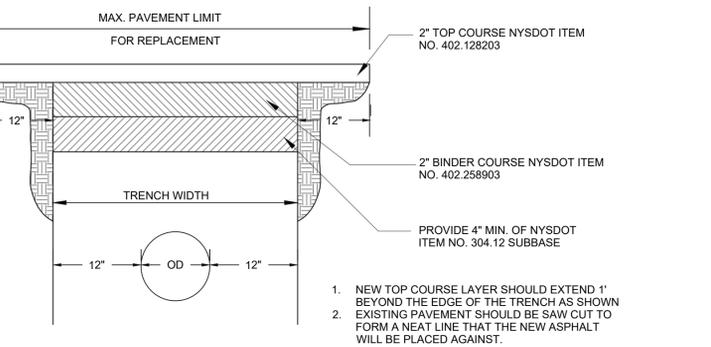
3 PLUMBING VENT THROUGH PITCHED ROOF DETAIL
P-81 SCALE: NOT TO SCALE



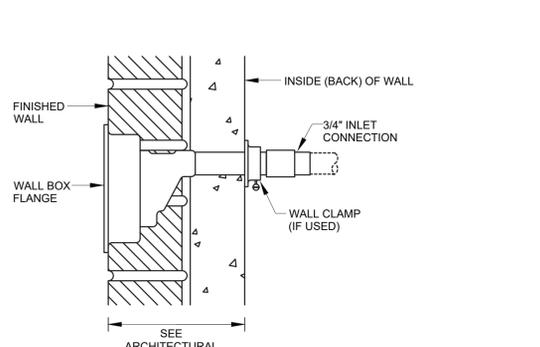
4 TYPICAL CLEVIS HANGER DETAIL
P-81 SCALE: NOT TO SCALE



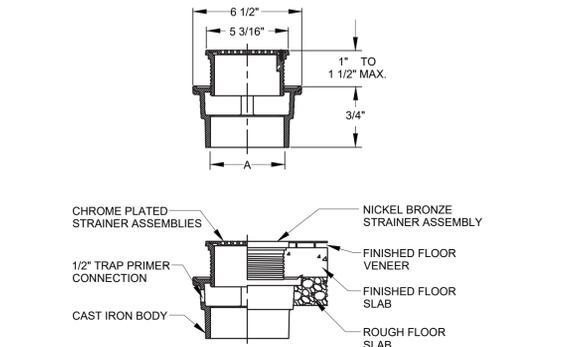
5 DRAIN VALVE DETAIL
P-81 SCALE: NOT TO SCALE



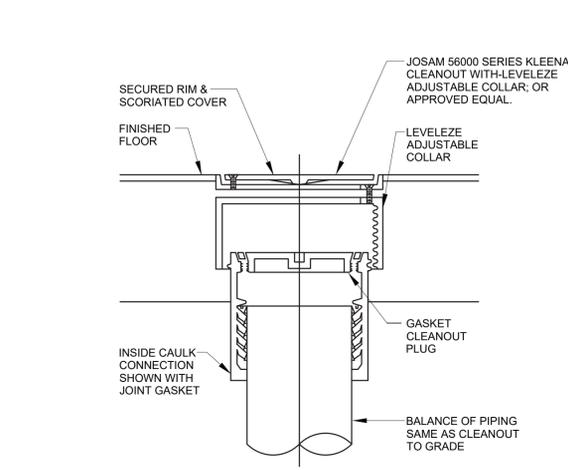
6 ASPHALTIC MACADAM PAVEMENT REPLACEMENT
P-81 SCALE: NOT TO SCALE



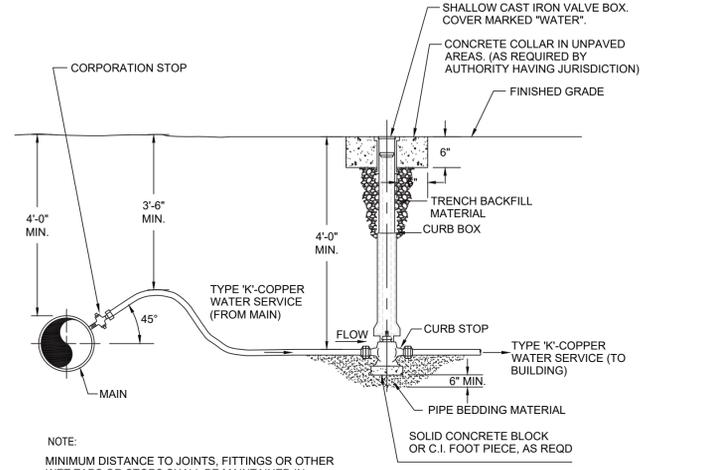
7 FREEZE PROOF WALL HYDRANT
P-81 SCALE: NOT TO SCALE



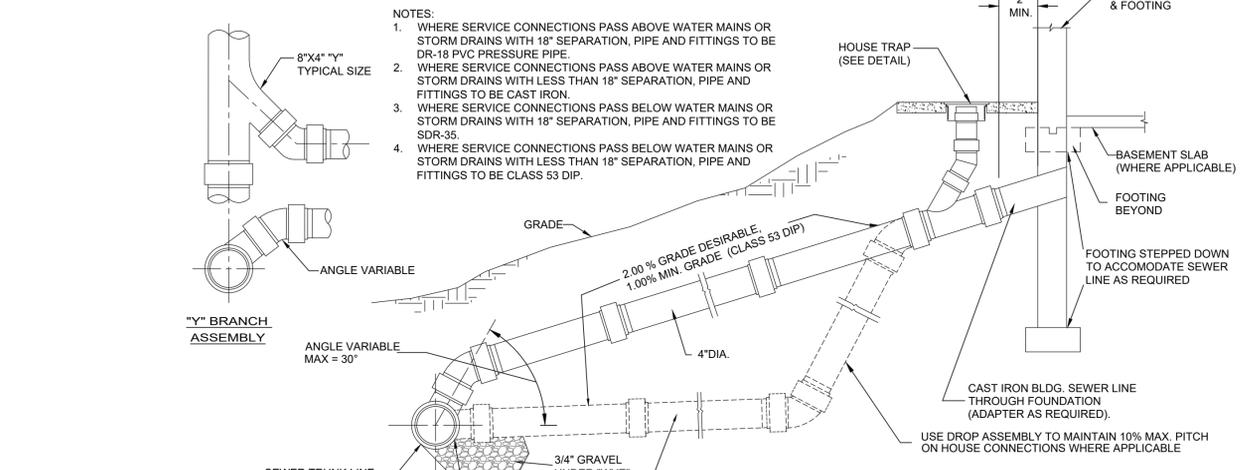
8 FLOOR DRAIN DETAIL
P-81 SCALE: NOT TO SCALE



9 FLOOR CLEANOUT DETAIL
P-81 SCALE: NOT TO SCALE



10 COPPER WATER SERVICE AND CURB STOP
P-81 SCALE: NOT TO SCALE



11 SEWER SERVICE CONNECTION/ DROP ASSEMBLY
P-81 SCALE: NOT TO SCALE

CONSULTANT INFORMATION

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**INFRASTRUCTURE REHABILITATION PHASE 3
PLAYLAND PARK, RYE, NEW YORK
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PLUMBING DETAILS**

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