







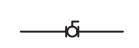


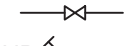


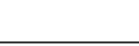
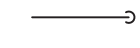
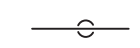

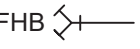




PLUMBING SYMBOL LIST	
IDENTIFIER	DESCRIPTION
-----CW-----	DOMESTIC COLD WATER
-----W-----	WASTE PIPING (ABOVE SLAB)
-----W-----	WASTE PIPING (UNDER SLAB)
-----S-----	SANITARY PIPING (ABOVE SLAB)
-----S-----	SANITARY PIPING (UNDER SLAB)
-----V-----	SANITARY VENT PIPING
	FIELD CONNECT
	FIELD DISCONNECT
	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)
	BALL VALVE
	CAP ON END OF PIPE
	CLEANOUT
	FLOOR DRAIN
	GATE VALVE
	HOSE BIBB
	VALVE IN VALVE BOX
	PIPE DROPPING DOWN
	PIPE RISING UP
	TEE OUTLET DOWN
	TEE OUTLET UP
	VALVE IN RISE OR DROP
	NON FREEZE HOSE BIBB IN BOX W/VACUUM BREAKER

SCOPE OF WORK
PLUMBING SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO:
1. REMOVAL OF EXISTING WATER SERVICE.
2. THE INSTALLATION OF NEW PLUMBING FIXTURES AND ALL ASSOCIATED PIPING AND ACCESSORIES.
3. 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:
1. 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.
2. ALL MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
3. 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.
4. 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.
5. 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.
6. 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.
7. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT REGARDLESS WHETHER ILLUSTRATED HEREIN WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.
8. 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.
9. 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.
10. ALL CONNECTIONS TO NEW AND/OR EXISTING EQUIPMENT SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
11. IT IS THE INTENT OF THIS CONTRACT THAT THE COMPLETED WORK BE FULLY OPERATIONAL.
12. ALL PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED AT INTERVALS AND BE FABRICATED OF MATERIALS AS REQUIRED BY THE PC-NYS.
13. ALL NEW PLUMBING FIXTURES SHALL BE INSTALLED WITH ANGLE STOP VALVES IN THE SUPPLY LINES SERVING THE FIXTURE.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. ALL REMOVALS PERFORMED UNDER THIS CONTRACT SHALL INCLUDE REMOVAL OF ALL DEBRIS AND DISPOSAL AT AN APPROPRIATE SITE.
20. 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.
21. REFER TO THE ARCHITECTURAL PLANS FOR ALL STRUCTURAL DIMENSIONS.
22. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
23. ALL PIPING PENETRATIONS TO BE SEALED AROUND WITH "NELSON" FIRE SEAL.
24. 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.
25. ALL PLUMBING FIXTURES TO BE INSTALLED AS PER FACTORY RECOMMENDATIONS.
26. ALL PLUMBING FIXTURES TO BE TRAPPED, VENTED AND PROVIDED WITH AIR SHOCKS WHEN REQUIRED.
27. PLUMBING FIXTURES SHALL COMPLY WITH "WATER CONSERVATION" REQUIREMENT AS DETAILED IN THE NYS-PC.
28. 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.
29. ALL WATER AND HORIZONTAL STORM DRAIN PIPING INCLUDING ROOF DRAIN BODY SHALL BE INSULATED.
30. FLOOR DRAINS AND FLOOR CLEAN-OUTS SHALL BE SET LEVEL WITH FINISHED FLOORS.
31. ALL PIPE DIMENSIONS ARE INSIDE CLEAR.
32. ALL PLUMBING FIXTURES TO HAVE ISOLATION VALVES.
33. 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.
34. BUILDING DOMESTIC WATER DEMAND & SIZING IS CALCULATED FROM NYS-PC SECTION 603, 604 & APPENDIX E.
35. BUILDING SANITARY DEMAND & SIZING IS CALCULATED FROM NYS-PC SECTIONS 709 AND 710.
36. ALL DFU CALCULATIONS ARE BASED OFF OF TABLE 709.1 OF THE NYS-PC.
37. ALL SANITARY WATER PIPING SHALL BE PITCHED IN ACCORDANCE WITH NYS-PC SECTION 704 BASED ON TABLE 704.1 SLOPE OF HORIZONTAL DRAINAGE PIPE.
38. ALL VENT SIZING IS BASED OFF OF SECTION 916 OF THE NYS PLUMBING CODE.
39. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.

ABBREVIATIONS:
AD ACCESS DOOR
BFP BACKFLOW PREVENTER
CO FLOOR 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
WFU 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.


SIMPLEX DRAIN PUMP SYSTEM													
TAG	MANUFACTURER	MODEL	LOCATION	PUMP OPERATION	PERFORMANCE (GPM @ FT OF HEAD)				DISCHARGE (INCH)	VENT (INCH)	ELECTRICAL		OPTIONS / ACCESSORIES
					5	10	15	20			VPH,HZ	HP	
SP-1	LIBERTY PUMPS	404 SERIES	UNDER PANTRY SINK	AUTOMATIC	37	30	19	5	2	2	115.1.60	1/3	ALARM & CHECK VALVE
NOTES													

PLUMBING FIXTURE SCHEDULE											
MARK	DESCRIPTION	SERVICE						BASED ON:			REMARKS
		TRAP	S/W	V	CW	TW	HW	ITEM	MANUFACTURER	MODEL	
PF-1	PANTRY SINK	2"	2"	2"	1/2"	-	1/2"	FAUCET DRAIN TRIM	ELKAY	LR2522SC	FAUCET ELKAY LK810GN04T4 SC
NOTES: 1. PROVIDE ALL REQUIRED HANGERS, MOUNTING BRACKETS, AND HARDWARE FOR A COMPLETE INSTALLATION PER MANUFACTURES INSTRUCTIONS. INCLUDES DRAIN AND P-TRAP.											

ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE									
TAG	MANUFACTURER	MODEL	LOCATION	HEATER KW	STORAGE WATER TEMP SETPOINT (DEG F)	ELECTRICAL		DIMENSION	APPROX. SHIPPING WEIGHT (LBS)
WH-1	EEMAX	SPEX3208	UNDER SINK	3	110	V-PH-HZ	AMPS	HxWxD (IN)	3
NOTES:									

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

PLUMBING DRAWING LIST			
SHEET NO.	SHEET NAME	REVISION NO.	REVISION DATE
SA-P-01	PLUMBING NOTES, SYMBOLS, ABBREVIATIONS, AND DRAWING LIST	0	-
SA-P-11	PLUMBING GROUND FLOOR AND 2ND LEVEL DEMOLITION PLANS	0	-
SA-P-21	PLUMBING GROUND FLOOR AND 2ND LEVEL CONSTRUCTION PLANS	0	-
SA-P-81	PLUMBING DETAILS	0	-

CONSULTANT INFORMATION  LiRo Engineers, Inc. A LiRo Group Company Syosset, N.Y. 516-214-8157[T]	CONSULTANT SEAL 							RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 22-523	SHEET NUMBER SA-P-01
								<input type="checkbox"/> AS BUILT – CHANGES AS NOTED <input type="checkbox"/> AS BUILT – NO CHANGES		DWG. NO.: 629 of 664		SCALE: AS INDICATED	
								CONTRACTOR		INFRASTRUCTURE REHABILITATION - PHASE 3 PLAYLAND PARK, RYE, NEW YORK SOUTHEAST ARCADE		DATE: 08/23/2022	
								PROJECT COORDINATOR		PLUMBING NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST		REV. NO. 0	
		REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION		NAME	SIGNATURE	TITLE	DATE	DPW FILE NUMBER 1-118-P-1378-0	REV. NO.