# 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 |
| F# | REFER TO SUPPLEMENTAL FIGURE INDICATED BY NUMBER (I.E. F2 REFERS TO FIGURE 2) |
| XXX / XX | EQUIPMENT TAG / EQUIPMENT NUMBER |
| XXX / X-XXX | 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
- FD — FLOOR DRAIN
- GATE VALVE
- HB — HOSE BIBB
- VALVE IN VALVE BOX
- PIPE DROPPING DOWN
- PIPE RISING UP
- TEE OUTLET DOWN
- TEE OUTLET UP
- VALVE IN RISE OR DROP
- NFHB — 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 PIPING AND KITCHEN EQUIPMENT.

2. THE INSTALLATION OF NEW PLUMBING FIXTURES AND ALL ASSOCIATED PIPING AND ACCESSORIES.

3. THE INSTALLATION OF NEW SANITARY AND DOMESTIC WATER FUTURE CONNECTIONS.

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 FLUSHOMETERS, 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 | 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.

# FLOOR DRAIN SCHEDULE

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

NOTES:
1. PROVIDE THE FOLLOWING FOR FD-1; CHORME PLATED STRAINER ASSEMBLY, 6" NICKEL HEAD ASSEMBLY, AND VANDAL PROOF.
2. 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 |

# REDUCED PRESSURE ZONE VALVE SCHEDULE

| TAG | MANUFACTURER | MODEL | LOCATION | SIZE (INCH) | PRESSURE DROP (PSI) |
|---|---|---|---|---|---|
| RPZ-1 | WATTS | 009LF | FOOD VENDOR CXF BLDG | 3/4 | N/A |

NOTES: LEAD FREE
PROVIDE AIR GAP AND DRAINAGE PIPING FOR RELIEF VALVE AND DIRRECT TO OUTSIDE.

# PLUMBING DRAWING LIST

| SHEET NO. | SHEET NAME | REVISON NO. | REVISION DATE |
|---|---|---|---|
| DCV-P-01 | PLUMBING NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST | 0 | - |
| DCV-P-11 | PLUMBING FIRST FLOOR AND ROOF DEMOLITION PLANS | 0 | - |
| DCV-P-21 | PLUMBING FIRST FLOOR AND ROOF CONSTRUCTION PLAN | 0 | - |
| DCV-P-81 | PLUMBING DETAILS | 0 | - |


CONSULTANT INFORMATION
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CONSULTANT SEAL
STATE OF NEW YORK · FRANK F. ULISSE · No. 090111-1 · LICENSED PROFESSIONAL ENGINEER

| REVISION NUMBER | DATE | MADE BY | APP'D BY | REVISION |
|---|---|---|---|---|
| | | | | |

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED ☐ AS BUILT – NO CHANGES

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**
**DRAGON COASTER VENDORS**
**PLUMBING NOTES, SYMBOLS, ABBREVIATIONS AND DRAWING LIST**

CONTRACT NUMBER 22-523
SHEET NUMBER **DCV-P-01**
DWG NO.: 464 of 664
SCALE: **AS INDICATED**
DATE: 08/23/2022
DPW FILE NUMBER **1-118-P-1213-0**
REV. NO. 0