

PLUMBING GENERAL NOTES:

- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY EXISTING EXCAVATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING AND SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF ANY DISCREPANCIES.
2. THESE DRAWINGS DO NOT INCLUDE ALL NECESSARY SAFETY REQUIREMENTS. CONTRACTOR TO COMPLY TO THE SAFETY REQUIREMENTS SET FORTH BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
3. THESE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THEY ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT MANY OFFSETS, BONDS, UNIONS, SPECIFIC FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED.
4. THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER, SEWER AND STORM DRAIN SYSTEMS TO A POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING AND SHALL MEET THE INVERT ELEVATION SHOWN ON THE CIVIL DRAWINGS. PIPING BEYOND THIS POINT IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATION AND SHALL BE AS SHOWN ON THE CIVIL DRAWINGS.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTION AND SHALL MAKE APPLICATION FOR SERVICE AND PERMITS OF ANY AGENCIES THAT MAY BE REQUIRED. ALL FEES AND CHARGES INCLUDING THE COST OF VAULTS AND METERS. CONTRACTOR SHALL MAKE VARIATIONS PER UTILITY COMPANY'S REQUIREMENTS WITHOUT CHARGING EXTRA TO THE BID CONTRACT.
6. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL, EQUIPMENT, MECHANICAL EQUIPMENT AND STRUCTURAL, FRAMING, SKYLIGHT, ETC.
7. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS PANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PLAN.
8. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH WALLS, BEAMS, SLABS AND FOOTING WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS. ALL PIPES SLEEPING THROUGH BEAM SHALL HAVE A SLEEVE DIMETER OF TWO PIPE SIZES OVER THE PIPE PASSING THROUGH THE FOOTING OR PER STRUCTURAL DRAWING. THE MOST STRINGENT SHALL PREVAIL.
9. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND MATERIALS PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
10. PIPING SUPPORTS. ALL PIPING TO BE SUPPORTED WITH HANGERS AND BRACKETS WHICH PROVIDE ISOLATION FROM FRAMING. CONTACT BETWEEN PIPE AND SUPPORT TO BE LINED WITH PLASTIC OR FELT.
11. ALL FLOOR AND WALL PENETRATIONS MUST BE SEALED WATERTIGHT AND VERMIN PROOF.
12. ALL EXTERIOR GAS COCKS, WATER SHUTOFF VALVES AND/OR SEWER CLEAN OUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
13. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS OF EQUIPMENT, CABINETS, ETC., WITH THE CORP PRIOR TO ANY INSTALLATION.
14. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED WITH AN ACCESS PANEL. COORDINATE LOCATION AND SIZE WITH CORP.
15. ALL DRY SYSTEM PIPING SHALL BE INSTALLED WITH PROPER PITCH FOR DRAINING OF SYSTEM.
16. DO NOT SHUT DOWN ANY FIRE PROTECTION OR RELATED SYSTEM WITHOUT CORP'S PRIOR WRITTEN APPROVAL. FOLLOW ALL OWNER REQUIREMENTS AND SHUT DOWN PROCEDURES AS WELL AS ALL REQUIREMENTS OF THIS PROJECT'S CONTRACT DOCUMENTS (PLANS AND SPECIFICATIONS).
17. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOF WORK THAT IS REQUIRED AS PART OF THIS CONTRACT. ALL ROOF WORK SHALL BE PERFORMED SUCH THAT ALL EXISTING ROOF WARRANTIES ARE MAINTAINED.
18. PROVIDE ALL WORK IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES. OBTAIN ALL REQUIRED PERMITS.
19. FIELD VERIFY EXACT LOCATION, COMPOSITION AND CONDITION OF ALL PIPING, VALVES AND SYSTEMS AS REQUIRED FOR WORK OF THE CONTRACT.
20. PROVIDE CUTTING, CORING AND PATCHING OF ALL WALLS, SLABS AND DECKS AS REQUIRED FOR WORK SHOWN. COORDINATE ALL WORK WITH CORP AND GENERAL CONTRACTOR.
21. PROVIDE ALL REQUIRED EXCAVATION, BACKFILL AND COMPACTION FOR ALL UNDERGROUND WORK.
22. DEMOLITION SHALL INCLUDE REMOVAL OF PIPING, HANGERS, RODS, INSULATION, SUPPORTS, FIXTURES, CARRIERS, TRIM, VALVES AND RELATED WORK. DEMOLITION SHALL INCLUDE LEGAL DISPOSAL OF ALL ITEMS REMOVED.
23. FIELD VERIFY ALL UNDERGROUND VALVES AND PIPING AS REQUIRED FOR WORK SHOWN.
24. COORDINATE ALL VENT TERMINATIONS ABOVE ROOF WITH HVAC CONTRACTOR. ALL VENT TERMINATIONS ABOVE ROOF SHALL BE A MINIMUM 10'-0" (COMMERCIAL) AND 25'-0" (HEALTHCARE) AWAY FROM ANY HVAC OUTSIDE AIR INTAKE (ROOFTOP UNIT, LOUVER, ETC.) OR AT LEAST 3 FEET ABOVE WINDOW, DRAIN, OPENING, AIR INTAKE OR VENT SHAFT.
25. CONNECT TO SITE PIPING OUTSIDE BUILDING AS SHOWN. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS. FIELD VERIFY EXACT LOCATION, DEPTH AND COMPOSITION OF SITE SERVICES AND COORDINATE ALL WORK WITH SITE CONTRACTOR.
26. PROVIDE SCHEDULE 40 BLACK STEEL PIPE SLEEVES FOR ALL UNDERGROUND PIPING PASSING THROUGH OR UNDER FOOTINGS, WALLS, FOUNDATION WALLS, SLABS FLOORS AND/OR UNDERGROUND STRUCTURES. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
27. WHERE PIPING IS LOCATED OVER FOOTINGS AND/OR OTHER UNDERGROUND STRUCTURES, ROLL DOWN AS REQUIRED TO CONNECT TO SYSTEMS NOTED. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS.
28. PITCH ALL SANITARY, WASTE AND STORM PIPING AS FOLLOWS: PIPING 3" AND SMALLER, PITCH AT 2 PERCENT (1/4" PER FOOT) MINIMUM, PIPING 4" AND LARGER, PITCH AT 1 PERCENT (1/8" PER FOOT) MINIMUM.
29. WATER OR WASTE PIPE BELOW GRADE OUTSIDE THE BUILDING SHALL HAVE A MINIMUM COVER AS REQUIRED BY CODE.
30. COORDINATE PLUMBING SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION.
31. COORDINATE LOCATIONS OF ALL ROOF OPENINGS WITH STRUCTURAL, MECHANICAL, AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
32. PLATFORMS, CURBS, AND FLUSHINGS FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
33. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
34. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO CORP.
35. PIPES SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS."
36. ALL HOSE BIBBS, WALL HYDRANTS AND MOP SERVICE BASINS SHALL BE EQUIPPED WITH APPROVED, PROPERLY INSTALLED ATMOSPHERIC TYPE VACUUM BREAKERS.
37. COORDINATE WITH ELECTRICAL TRADE PRIOR TO ORDERING ELECTRICALLY OPERATED EQUIPMENT FOR AVAILABLE VOLTAGES AT EQUIPMENT LOCATIONS.
38. PIPE SIZE DISCREPANCIES BETWEEN FLOOR PLANS AND RISER DIAGRAMS LARGER PIPE SIZE INDICATED WILL TAKE PRECEDENCE.
39. THESE PLANS INDICATE APPROXIMATE ROUGH-IN ONLY FOR EQUIPMENT NOT IN THIS SECTION (N.T.I.S.) EXACT ROUGH-IN DIMENSIONS MUST BE OBTAINED FROM THE EQUIPMENT MANUFACTURER.
40. NO GAS PIPING SHALL BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING OR STRUCTURE AND ALL EXPOSED GAS PIPING SHALL BE KEPT AT LEAST 6" ABOVE GRADE.
41. PROVIDE SHUT-OFF VALVES (BALL VALVE) FOR EACH C, H, HWIR AND GAS RISER TO UNITS AND BRANCH TO PUBLIC AREAS OR FIXTURES.
42. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
43. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
44. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
45. INSTALL PIPING WITHOUT FORCING OR STRAINING.
46. DRAINS SHALL BE INSTALLED AT THE LOW POINT OF THE FLOORS, UNLESS OTHERWISE NOTED.
47. PROVIDE RPZ TYPE BACKFLOW PREVENTER AND ISOLATION VALVES ON ALL MAKE-UP WATER LINES EQUAL TO WATTS LF908 (SAME SIZE AS LINE). COORDINATE WITH MECHANICAL DRAWINGS. PROVIDE CAP DOWN STREAM OF RPZ. CONTRACTOR SHALL NOT DEVELOP ANY OTHER DEVICES AS POSSIBLE. PROVIDE 1 1/2" DRAIN FROM RPZ'S RELIEF VALVE AND TERMINATE AT NEAREST FLOOR DRAIN.
48. PROVIDE CLEAN-OUTS AT THE BASE OF ALL STORM, SANITARY, AND WASTE STACKS.
49. MINIMUM SIZE OF SANITARY/WASTE PIPING BELOW SLAB SHALL BE 3".
50. THIS PROJECT NEITHER OVERLOADS EXISTING SYSTEMS NOR CREATES/INCREASES ANY CODE NONCOMPLIANCE.
51. PROVIDE FLOOR DRAIN TRAP SEALER ON ALL FLOOR DRAINS AS SPECIFIED.
52. WHEN EXISTING CONSTRUCTION IS DAMAGED DURING WORK BY THIS CONTRACTOR, THE CONTRACTOR SHALL REPAIR OR REPLACE WITH SIMILAR OR LIKE MATERIALS AS MUCH AS POSSIBLE. A SUBMITTAL FOR THE MATERIAL WILL BE REQUIRED FOR REVIEW AND APPROVAL.
53. DISPOSE OF ALL DEMOLITION AND/OR OTHER WASTE MATERIALS CAUSED BY WORK OF THIS CONTRACTOR. LEGALLY DISPOSE ALL MATERIALS TO A LOCATION OFF SITE UNLESS NOTED.
54. COORDINATE AND SCHEDULE WORK AND SHUTDOWNS WITH THE OWNER AND OTHER TRADES PRIOR TO DEMOLITION.
55. ALL EXISTING PIPING TO REMAIN SHALL BE RECONNECTED TO ACTIVE SERVICE PIPING.
56. ALL PIPING TO BE REMOVED SHALL BE REMOVED BACK TO ACTIVE PIPING AND CAPPED. VALVE AND CAP ALL WATER PIPING REMOVE ALL INACTIVE PIPING UNLESS NOTED.
57. ALL PIPING TO BE REMOVED AND LOCATED WITHIN A WALL TO REMAIN MAY BE ABANDONED IN PLACE UNLESS NOTED. REMOVE PIPING BACK TO BEHIND THE FINISHED WALL SURFACE AND CAP. ALL SANITARY PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR AND PLUGGED.
58. PLUG HOLES IN EXISTING CONSTRUCTION LEFT BY THE REMOVAL OF PIPING, OR EQUIPMENT SHALL BE REPAIR TO THE FIRE/SMoke RATING.
59. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO: PIPING, VALVES, FIXTURES, EQUIPMENT, HANGERS, SUPPORTS, LEGAL DISPOSAL OF MATERIAL, AND ALL INSULATION EXCEPT ASBESTOS.
60. ALL PIPING TO BE REMOVED IN PENETRATION FLOOR SLAB SHALL BE REMOVED TO BELOW FLOOR AND CAPPED.
61. NO SANITARY/STORM PIPING SHALL BE ABANDONED UNDERGROUND AS TO CREATE A 'DEAD END'. PIPING IS TO BE REMOVED BACK TO ACTIVE MAIN AND CAPPED.
62. BUILDING HAS BEEN NOTED TO CONTAIN ASBESTOS. PLUMBING CONTRACTOR DOING WORK SHALL HAVE PROPER TRAINING AND CERTIFICATION TO WORK IN THESE AREAS. CONTRACTOR SHALL PROVIDE APPROVED BAGGING, AIR TESTING AND MONITORING, AND TENTING OFF SPACES AS REQUIRED TO COMPLETE WORK.
63. PLUMBING SYSTEMS AND ALL COMPONENTS THAT ARE DESIGNED AND/OR INTENDED TO DELIVER POTABLE WATER FOR HUMAN CONSUMPTION SHALL BE THIRD-PARTY TESTED AND CERTIFIED FOR NOT EXCEEDING THE MAXIMUM ALLOWABLE LEAD CONTENT PER THE NSF/ANSI 372 STANDARD.

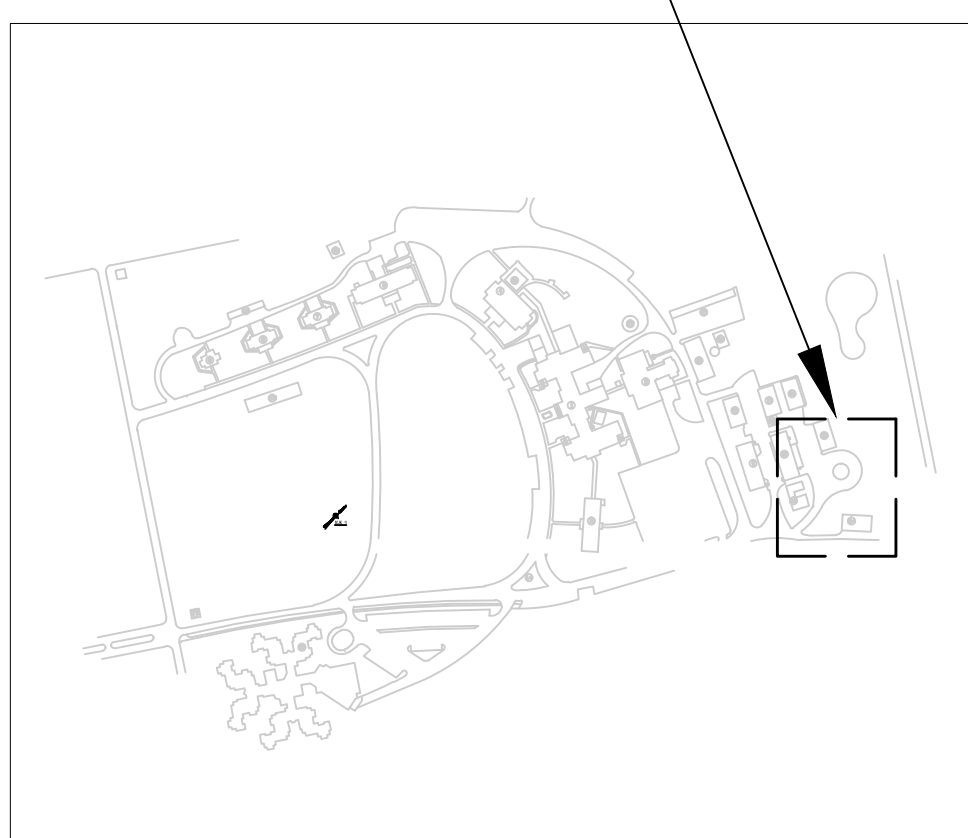
ABBREVIATIONS:

AFF - AIR
 AFV - ABOVE FINISHED FLOOR
 AC - ACID VENT
 AW - ACID WASTE
 C - COLD WATER
 CD - CLEANOUD
 CP - CONDENSATE PUMP
 CPVC - CHLORINATED POLYVINYL CHLORIDE
 CRP - CROCODER BOOSTER PUMP
 DCCA - DOUBLE CHECK DETECTOR ASSEMBLY
 DET - DOMESTIC EXHAUSTION TANK
 DF - DRINKING FOUNTAIN
 DIA - DIAMETER
 DIN - DOWN
 DPCO - DECK PLATE CLEANOUD
 DW - DEIONIZED WATER
 E - EXISTING
 ESS - EMERGENCY SHOWER SYSTEM
 ETR - EXISTING TO REMAIN
 EW - ELECTRIC
 EWC - ELECTRIC WATER COOLER
 FD - FLOOR DRAIN
 FE - FIRE DEPARTMENT CONNECTION
 FO - FUEL OIL FILL
 FOG - FUEL OIL GAUGE
 FOS - FUEL OIL SUPPLY
 FOS - FUEL OIL SUPPLY
 FOV - FUEL OIL VENT
 FP - FIRE PROTECTION
 FPC - FIRE PROTECTION CONTRACTOR
 FS - FLOOR SINK
 FS - FLOW SWITCH
 FT - FEET
 G - GAS
 G - GALLONS PER HOUR
 GPH - GALLONS PER MINUTE
 H - HOT WATER
 HB - HORSE BIBB
 HP - HORSE POWER
 HHW - HOT WATER HEATER
 HWR - HOT WATER RECIRCULATION
 I - INCHES
 IN - INVERT
 IW - INDIRECT WASTE
 LAV - LAVATORY
 LPG - LIQUEFIED PETROLEUM GAS
 S - SINK
 L - LAUNDRY SINK
 S - SINK
 MAX - MAXIMUM
 MIN - MINIMUM
 MSS - MOP SERVICE SINK
 MV - MIXING VALVE
 N - NITROGEN
 NC - NORMALLY CLOSED
 NIC - NOT IN CONTRACT
 NO - NORMALLY OPEN
 NTS - NOT TO SCALE
 O - OXYGEN
 CO - CLEANOUD
 PC - PLUMBING CONTRACTOR
 PCP - PLUMBING CIRCULATION PUMP
 P - PUMP
 PRV - PRESSURE REDUCING VALVE
 PS - PRESSURE SWITCH
 PSI - POUNDS PER SQUARE INCH
 PVC - POLYVINYL CHLORIDE
 PW - PURE WATER
 PD - POOL DRAIN
 RPD - REDUCED PRESSURE DETECTOR ASSEMBLY
 RPM - REVOLUTIONS PER MINUTE
 RZ - REDUCED PRESSURE ZONE
 SA - SHOCK ABSORBER
 SAN - SANITARY
 SE - SEWAGE EJECTOR
 SF - SQUARE FOOT
 SHR - SHOWER
 S - SINK
 SP - SUMP PUMP
 ST - STORM WATER
 TD - TRENCH DRAIN
 TS - TAMPER SWITCH
 TUB - TUB
 TYP - TYPICAL
 UP - UP
 UR - URINAL
 V - VOLTS
 VAC - VACUUM
 VTR - VENT THROUGH ROOF
 W - WASTE
 WC - WATER CLOSET
 WH - WYHOBANT
 WPCO - WALL FLATE CLEANOUD

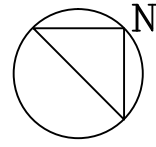
PLUMBING SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
-X-X-	EXISTING PIPING		PRESSURE REDUCING VALVE
	NEW TO EXISTING CONNECTION		NEEDLE VALVE
	REMOVE TO THIS POINT		SOLENOID VALVE
	WORK TO BE REMOVED		PIPE CONTINUATION (SINGLE LINE)
-•-•-	COLD WATER PIPING (C)		PIPE CONTINUATION (DOUBLE LINE)
-H-H-	HOT WATER PIPING (H)		BREAK
---•---	HW RECIRCULATION PIPING (HWR)		DIRECTION OF FLOW
---V---	VENT PIPING (V)		CAP OR PLUG
	STORM PIPING (ST)		WALL HYDRANT
---	SANITARY/WASTE (SAN/W)		HOSE BIBB
-IW-	INDIRECT WASTE (IW)		THERMOMETER
-G-	NATURAL GAS PIPING (G)		PRESSURE GAGE
-A-	COMPRESSED AIR (A)		SHOCK ABSORBER (SA)
-W-	WATER MAIN (EXTERIOR)		STRAINER
-FDS-	FUEL OIL SUCTION (FOS)		PUMP
-FDR-	FUEL OIL RETURN (FOR)		BACKFLOW PREVENTER
-FDV-	FUEL OIL VENT		METER
-FDF-	FUEL OIL FILL (FOF)		FLOOR DRAIN (FD)
-FDG-	FUEL OIL GAUGE (FDG)		ROOF DRAIN (RD)
-D-	DROP CONNECTION		WPCB WALL PLATE CLEANOUT
	ELBOW UP, ELBOW DOWN		DECK PLATE CLEANOUT
	P-TRAP		TYPICAL
	CLEANOUT (CO)		N. C. NORMALLY CLOSED
	UNION		N. O. NORMALLY OPEN
	SHUT OFF VALVE		FLOOR SINK
	CHECK VALVE		ABOVE FINISHED FLOOR
	BALANCE VALVE		EXISTING TO REMAIN
	ANGLE VALVE		VENT THROUGH ROOF
	PRESS. OR TEMP. RELIEF VALVE		PUMP DISCHARGE
	PLUG VALVE		PLUMBING CONTRACTOR
	REGULATING VALVE		FIRE PROTECTION CONTRACTOR
	BUTTERFLY VALVE		REDUCED PRESSURE ZONE
			DOUBLE DETECTOR CHECK VALVE

AREA OF WORK



KEY PLAN
SCALE: NONE



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INFECTION CONTROL	DATE	CARELINE MANAGER	DATE
SAFETY OFFICER	DATE	CHIEF OF STAFF	DATE

Drawing Title	
GENERAL NOTES, SYMBOLS AND ABBREVIATIONS-PLUMBING	
MEDICAL CENTER DIRECTOR	DATE
ASSOCIATE MEDICAL CENTER DIRECTOR	DATE

Project Title		
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Building Number 1	Checked AJW	Drawn WAB
Location V.A.M.C. BATAVIA, NEW YORK		

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