

PLUMBING FIXTURES AND EQUIPMENT

| MARK | FIXTURE TYPE | MANUFACTURER & MODEL NO. | FIXTURE CONNECTIONS | | | | REMARKS |
|----------------|---|-----------------------------|---------------------|------|----|----|--|
| | | | CW | HW | W | V | |
| WC | WATER CLOSET, TANK BARRIER FREE (ADA) | AMERICAN STANDARD CADET | 1/2" | - | 4" | 2" | 1.28 GPF; ELONG'D BOWL; 15" RIM (17" ADA); OPEN-FRONT SEAT; TRIP LEVER ON WIDE SIDE OF FIXTURE |
| LAV | LAVATORY WALL-HUNG BARRIER FREE (ADA) | AMERICAN STANDARD LUCERNE | 1/2" | 1/2" | 2" | 2" | 0.5 GPM; 1-LVR FAUCET; CONCEALED ARM SUPPORTS; DRAIN W/GRID, TAILPIECE & P-TRAP; (ADA MTG HT & PIPE COVERS); ASSE 1070 TEMPERING VALVE |
| UR | URINAL | AMERICAN STANDARD ALLBROOK | 3/4" | - | 2" | 2" | 0.5 GPF; WALL BRACKET; 24" RIM; SLOAN #186 FLUSH VALVE |
| MS | MOP SINK | E.L. MUSTEE #63M, 24" x 24" | 1/2" | 1/2" | 3" | 2" | DELTA FAUCET #28T9, W/VAC. BREAKER, WALL BRACE, INTEGRAL STOPS. FINAL HOOK-UPS BY P.C. PROVIDE HOOKS OR HANG-UP BRACKETS AT THE UTILITY SINK FOR THE STORAGE OF MOPS AND BROOMS. |
| SK | DOUBLE BOWL STAINLESS STEEL BREAK ROOM SINK (ADA) | JUST DL-ADA-2133 | 1/2" | 1/2" | 2" | 2" | 2.0 GPM; HI-ARC ADA FAUCET; DRAIN W/BASKET STRAINER, TAILPIECE, P-TRAP; ADA PIPE COVERS |
| DF | DRINKING FOUNTAIN | OASIS PGBAC | 1/2" | - | 2" | 2" | SINGLE LEVEL; BARRIER FREE; REFRIGERATED; 8 GPH, 50F WATER; 1/4HP |
| NFWH | NON-FREEZE WALL HYDRANT WITH COVER | JR SMITH 5509QT | 3/4" | - | - | - | VAC BREAKER; SS BOX W/HINGED LOCKING COVER; KEY-OPERATED 1/4-TURN VALVE |
| FD | FLOOR DRAIN | JR SMITH 2005 | - | - | 2" | 2" | 6" BRASS GRATE; TRAP PRIMER CONNECTION AS REQUIRED; VANDAL-PROOF SCREWS |
| FS | FLOOR SINK | JONES STEPHENS #559-093 | - | - | 3" | 2" | PVC BODY, 12"x12" TOP, 9"x9" HALF GRATE, FLAT BOTTOM STRAINER |
| WH-1,2,3,4,6,7 | TANKLESS WATER HEATER | EEMAX SPEX320BT | 1/2" | 1/2" | - | - | 3.0 KW, 208V/1PH; 0.2 GPM ACTIVATION; 59F TEMP RISE AT 0.35 GPM; 110F OUTLET SETPOINT |
| WH-5 | TANKLESS WATER HEATER | EEMAX SPEX420BT | 1/2" | 1/2" | - | - | 4.5 KW, 208V/1PH; 0.2 GPM ACTIVATION; 56F TEMP RISE AT 0.5 GPM; 110F OUTLET SETPOINT |
| WH-8 | TANKLESS WATER HEATER | EEMAX SPEX820BT | 1/2" | 1/2" | - | - | 8.3 KW, 208V/1PH; 0.2 GPM ACTIVATION; 57F TEMP RISE AT 1.0 GPM; 110F OUTLET SETPOINT |

PLUMBING GENERAL NOTES

- FIXTURES AND EQUIPMENT ARE INDICATED ON PLUMBING SHEETS FOR GENERAL REFERENCE ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL FIXTURES AND EQUIPMENT. KITCHEN FIXTURES AND EQUIPMENT ARE SCHEDULED ON ARCHITECTURAL DRAWINGS.
- ALL WORK SHALL BE BY LICENSED PLUMBER AND IN ACCORDANCE WITH APPLICABLE CODES.
- PLUMBING WATER (COLD AND HOT, 110°F & 140°F) PIPING UP TO 1" SHALL BE TYPE B PEX (WHERE APPROVED BY AUTHORITY HAVING JURISDICTION) WITH BRASS FITTINGS AND CRIMPED JOINTS, 100 PSIG RATED. PLUMBING PIPING 1-1/4" AND LARGER SHALL BE SCHEDULE 40 CPVC WITH SOLVENT WELD JOINTS. INSULATE PIPING CONTINUOUSLY WITH ELASTOMERIC FOAM PIPE INSULATION (3/4" FOR CW, 1" FOR HW AND HWR) EXCEPT WHERE OTHERWISE SPECIFIED, PROVIDE CONTINUOUS SEAL AROUND ALL SEAMS AND JOINTS WITH INSULATION MANUFACTURER'S SEALING COMPOUND. PROVIDE 1/4-TURN BALL STOP VALVES AT FINAL CONNECTION TO FIXTURES, APPLIANCES, OR EQUIPMENT. ALL MATERIALS SHALL BE APPROVED FOR DOMESTIC WATER (POTABLE) SERVICE.
- SANITARY DRAINAGE AND VENT PIPING SHALL BE DWV PVC WITH SOLVENT WELD JOINTS. PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT MINIMUM 2 PERCENT, PIPING 3" AND LARGER SHALL BE SLOPED AT MINIMUM 1 PERCENT. PROVIDE DRAINAGE PATTERN FITTINGS.
- NATURAL GAS PIPING SHALL BE SCHEDULE 40 STEEL, ASTM A53, WITH MALLEABLE IRON FITTINGS AND THREADED JOINTS. PIPING CONCEALED BEHIND WALLS OR BELOW SLAB SHALL HAVE ALL WELDED JOINTS. PIPING WHICH IS SUBJECT TO WEATHER SHALL BE CLEANED, PRIMED AND PAINTED WITH 2 COATS EXTERIOR GRADE, UV-RESISTANT PAINT. UNDERGROUND PIPING SHALL BE AS RECOMMENDED BY THE GAS SERVICE PROVIDER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND HUB DRAINS, EXCEPT WHERE DRAIN RECEIVES A CONTINUOUS DISCHARGE AND WHERE LAHJ APPROVES INSTALLATION WITHOUT TRAP PRIMER.
- WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF BUILDING INSULATION ASSEMBLY.
- PROVIDE SIGN DIRECTING ALL EMPLOYEES TO WASH HANDS.
- SEAL AROUND EDGES OF ALL WALL-MOUNTED FIXTURES WITH APPROVED CAULK/SEALING COMPOUND.
- WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION AND ALL APPLICABLE LOCAL ORDINANCES.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES, INSPECTIONS, ETC., AND PAY ALL INCIDENTAL FEES, AS REQUIRED TO OBTAIN A PERMIT AND A PERMANENT CERTIFICATE OF OCCUPANCY.
- WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONFLICTS WHICH ARISE DUE TO LACK OF PROPER COORDINATION SHALL BE CORRECTED AT THE CONTRACTOR'S COST.
- DESIGN INDICATED IS SCHEMATIC AND MAY NOT REFLECT ALL CONSTRAINTS IMPOSED BY ACTUAL PROJECT CONDITIONS. CONTRACTOR SHALL VISIT SITE AND REVIEW CONSTRUCTION DOCUMENTS (INCLUDING ALL TRADES) TO FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BID. CONTRACTOR'S BID SHALL INCLUDE ANY AND ALL COSTS REQUIRED TO REWORK THE DESIGN TO FIT WITHIN THE PHYSICAL CONSTRAINTS WHILE ACHIEVING THE OVERALL DESIGN INTENT.
- THE BASIS-OF-DESIGN PRODUCTS WERE USED TO DETERMINE DIMENSIONS, INSTALLATION AND ACCESS CLEARANCES, SUPPORTS, ELECTRICAL SERVICE, CONNECTION ARRANGEMENTS, ETC. WHERE ALTERNATE PRODUCTS ARE PROVIDED, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL REQUIREMENTS AND RECTIFY ANY CONFLICTS AT THE CONTRACTOR'S COST.
- ALL WORK SHALL BE INSTALLED TO AVOID CONFLICT WITH ELECTRICAL EQUIPMENT "DEDICATED SPACE" AS REQUIRED BY NECA AND LOCAL ORDINANCES. COORDINATE LOCATIONS OF ALL ELECTRICAL GEAR (DISTRIBUTION PANELS, TRANSFORMERS, SWITCHGEAR, ETC.) WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION AND INSTALLATION.
- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL EQUIPMENT AND DEVICES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- ALL MATERIALS AND EQUIPMENT SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO ORDERING. CONTRACTOR ASSUMES LIABILITY AND COSTS FOR ANY PRODUCT WHICH IS ORDERED PRIOR TO RECEIPT OF APPROVED SUBMITTALS.
- ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. ADDITIONAL WARRANTY SHALL APPLY WHERE SPECIFIED.
- EQUIPMENT START-UP AND COMMISSIONING SHALL BE PERFORMED BY FACTORY-AUTHORIZED AGENTS. CONTRACTOR SHALL SUBMIT WRITTEN START-UP PROCEDURES TO OWNER FOR APPROVAL PRIOR TO PERFORMANCE OF START-UP ACTIVITIES. FINAL REPORT SHALL BE APPROVED BY OWNER.
- ALL PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE STOPPED WITH LISTED SYSTEM APPROVED FOR THE APPLICATION.
- FLASH AND SEAL ALL PENETRATIONS OF BUILDING EXTERIOR, WALLS AND ROOF WITH APPROVED SEALANT.
- ALL WORK INSTALLED WITHIN HVAC PLENUMS SHALL BE NON-FRAME RATED (1/50 FPM SPREAD/SMOKE DEVELOPED) AND, WHERE REQUIRED BY THE LAHJ, SHALL BE NON-COMBUSTIBLE.
- ALL EQUIPMENT SHALL BE NEW EXCEPT FOR EQUIPMENT SPECIFICALLY NOTED AS EXISTING TO REMAIN. CONTRACTOR SHALL TEST EXISTING EQUIPMENT FOR PROPER OPERATION AND REPORT CONDITION TO OWNER. ALL UNTESTED EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED IF NOT FUNCTIONAL AT THE DATE OF BENEFICIAL OCCUPANCY. NEW EQUIPMENT SHALL BE UL OR ETL LISTED AND LABELED. GAS-FIRED EQUIPMENT SHALL ALSO BE AGA OR CSA LISTED AND LABELED. INSTALL ALL EQUIPMENT PER THESE DOCUMENTS, MANUFACTURER'S RECOMMENDATIONS, AND CODE REQUIREMENTS FOR SPECIFIC APPLICATION.
- EXCEPT WHERE SPECIFIED OTHERWISE, MECHANICAL CONTRACTOR SHALL PROVIDE STARTERS AND ELECTRICAL DISCONNECTS FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- PROVIDE PERMANENT LABELS FOR ALL EQUIPMENT, CONTROLS, AND PIPING.
- PROVIDE PRESSURE REDUCING VALVE IF LINE PRESSURE EXCEEDS 80 PSI, SET TO 60 PSI.

PLUMBING LEGEND

| SYMBOL | DESCRIPTION |
|--------|-------------------------------------|
| --- | DOMESTIC COLD WATER PIPING |
| ---- | HOT WATER PIPING |
| ---- | SANITARY OR WASTE PIPING |
| ---- | VENT PIPING |
| ---- | GAS PIPING |
| ⊙ | CONNECTION TO EXISTING CONSTRUCTION |
| ⊖ | PRESSURE GAUGE |
| ⊘ | SHUT-OFF VALVE (TYPE AS SPECIFIED) |
| ⊘ | BALANCING VALVE (TYPE AS SPECIFIED) |
| ⊘ | PRESSURE REDUCING VALVE |
| ⊘ | CHECK VALVE |
| ⊘ | BACKFLOW PREVENTER |
| ⊘ | RESET VALVE |
| ⊘ | GAS CHECK |
| ⊘ | STRAINER |
| ⊘ | UNION |
| ⊘ | PIPE REDUCER |
| ⊘ | PIPE END CAP |
| ⊘ | CLEANOUT |
| ⊘ | P-TRAP |
| ⊘ | CONTINUATION OF PIPING |
| ⊘ | YARD CLEAN OUT |
| ⊘ | GAS PRESSURE REGULATOR |

ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

PLUMBING ABBREVIATIONS

| ABBREV. | DEFINITION |
|----------|--------------------------------|
| AAV | AIR ADMITTANCE VALVE |
| A/C | ABOVE CEILING |
| ABV | ABOVE |
| AD | ACCESS DOOR |
| AFF | ABOVE FINISHED FLOOR |
| B/F | BELOW FLOOR |
| B/G | BELOW GRADE |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CO | CLEANOUT |
| CLG | CEILING |
| CONN | CONNECT (OR) |
| CON | CONTINUATION |
| CW | DOMESTIC COLD WATER |
| DN | DOWN |
| EX | EXTERIOR |
| GW | GREASE WASTE |
| FD | FLOOR DRAIN |
| HW | HOT WATER |
| HWR | HOT WATER RECIRCULATION |
| IE | INVERT ELEVATION |
| O/H | OVERHEAD |
| PLBG | PLUMBING |
| PRV | PRESSURE REDUCING VALVE |
| SAN OR S | SANITARY |
| TP | TRAP PRIMER |
| TYP | TYPICAL |
| V | VENT |
| W | WASTE |
| YCO | YARD CLEAN OUT |

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