PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

1. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
2. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
3. WARRANTY: PROVIDE ALL MATERIALS AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
4. COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC. TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO CHARGE TO THE OWNER. COORDINATE INSTALLATION OF ALL PLUMBING LINES AT CMU WALLS SO THAT PLUMBING LINES ARE PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING AND PATCHING OF CMU WALLS IN PLACE WILL NOT BE PERMITTED.
5. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.
6. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
   - PLUMBING FIXTURES AND EQUIPMENT
   - FIRE STOPPING
   - DOMESTIC WATER SYSTEM
   - SANITARY WASTE AND VENT SYSTEM

FIXTURES & EQUIPMENT:

1. ALL PLUMBING FIXTURES AND PLUMBING SYSTEM EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. PROVIDE ISOLATION VALVES AT ALL PLUMBING FIXTURES AND EQUIPMENT. SEE FIXTURE SCHEDULE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.

FIRE STOPPING:

1. PROVIDE A U.L. LISTED ASSEMBLY FOR ALL PIPING PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.

DOMESTIC WATER PIPING:

1. PROVIDE A COMPLETE SYSTEM OF HOT AND COLD WATER PIPING FROM ALL PLUMBING FIXTURES AND/OR OTHER EQUIPMENT. HOT AND COLD WATER LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2. DOMESTIC WATER PIPING BELOW SLAB:
   SOFT ANNEALED SEAMLESS COPPER TUBING, TYPE 'K' WITH NO JOINTS BELOW SLAB (ASTM B 88). IF ALLOWED BY LOCAL JURISDICTION, PEX PIPING MAY BE RUN BELOW SLAB. PROVIDE SLEEVING WHERE PEX PIPING PENETRATES CONCRETE SLAB OR IS SUBJECT TO ABRASION AND AS RECOMMENDED BY MANUFACTURER.
3. DOMESTIC WATER PIPING AND JOINTS ABOVE SLAB:
   PEX PIPING (ASTM F 876) UNLESS LOCAL JURISDICTION REQUIRES OTHER MATERIAL.
4. STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
5. INSULATION IS REQUIRED ON ALL WATER SUPPLY PIPING ABOVE FINISHED FLOOR IN ACCORDANCE WITH THE STATE PLUMBING CODE OR PER LOCAL JURISDICTION. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
6. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES SHALL MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.
7. DO NOT INSTALL DOMESTIC WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
9. PROVIDE FULL PORT VALVES IN ALL BRANCH LINES OF THE HOT AND COLD WATER DISTRIBUTION SYSTEM ON ¾" AND LARGER CW & HW AND AS SHOWN ON PLANS, RISERS, AND SCHEMATIC DETAILS.
10. PROVIDE ACCESS DOORS FOR ALL VALVES AND DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE INACCESSIBLE CEILING CONSTRUCTION.
11. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH MASONRY OR DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, SATISFACTORY AND PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PROTECT THE COPPER AGAINST CONTACT WITH OTHER METALS.
12. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, SLEEVES SHALL BE COPPER OR RED BRASS. WHERE COPPER MUST BE CONCEALED IN A MASONRY PARTITION OR AGAINST MASONRY, CONTACT SHALL BE PREVENTED BY COATING THE COPPER HEAVILY WITH ASPHALTIC ENAMEL AND PROVIDING 15# ASPHALT SATURATED FELT BETWEEN THE PIPE AND MASONRY.
13. PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.

SANITARY WASTE AND VENT PIPING:

1. PROVIDE A COMPLETE SYSTEMS OF SOIL, WASTE, AND VENT PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT. ALL SOIL, WASTE AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE WASTE PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
3. SANITARY WASTE AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET-TYPE PIPE FITTINGS (ASTM D 3311).
4. SLOPE SANITARY WASTE PIPING 2½" AND SMALLER AT ¼" PER FOOT MIN. SLOPE SANITARY WASTE PIPING 3" AND LARGER AT ⅛" PER FOOT MINIMUM.
5. WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEANOUT PLUG FOR ALL LAVATORIES.
6. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE STACKS, AT EVERY FOUR 45 DEGREE TURNS, AND AT EVERY 100 FEET. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
7. PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.
8. COMPLETELY ROD AND FLUSH OUT ALL SANITARY WASTE LINES AFTER BUILDING IS COMPLETED.

PIPING AND EQUIPMENT SUPPORT:

1. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE PER CODE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.

SEISMIC REQUIREMENTS:

1. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

NOTE TO CONTRACTORS

1. RUN ALL ELECTRICAL CONDUITS, PLUMBING PIPING SO AS NOT TO INTERFERES WITH STORE FIXTURE EQUIPMENT LAYOUTS, OR ANY OTHER DOLLAR TREE EQUIPMENT.
2. CONTRACTORS TO ROUTE ALL CONDUITS, PLUMBING PIPING TIGHT TO STRUCTURE AND PERPENDICULAR TO WALL IN AN ORDERLY MANNER.

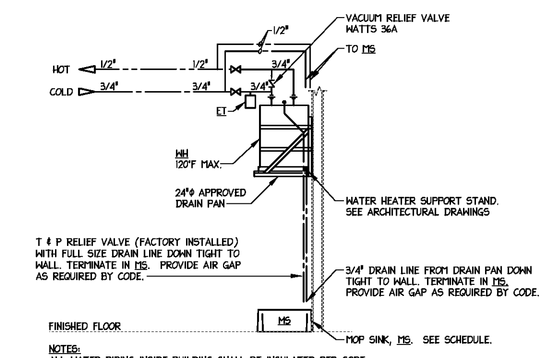
PLUMBING FIXTURE SCHEDULE

PROVIDED BY TENANT'S VENDOR FOR INSTALLATION BY CONTRACTOR

MARK	FIXTURE TYPE	MANUFACTURER & MODEL NO.	FIXTURE CONNECTIONS				REMARKS
			CW	HW	W	V	
BFP	BACKFLOW PREVENTER	WILKINS 975XLS2-AG (LEAD FREE)	LINE SIZE	---	---	---	REDUCED PRESSURE TYPE, INTEGRAL SHUT-OFF VALVES COMPLYING WITH ASSE 1013. PROVIDE WITH INLET WYE STRAINER AND AIR GAP FITTING
DF	BI-LEVEL HANDICAP DRINKING FOUNTAIN	OASIS MODEL No. PACSL NON-REFRIGERATED	1/2"	---	1 1/2"	1 1/2"	♿ FURNISH STANDARD CABINET FINISH FOUNTAIN, SUPPLY STOP & TUBE, DRAIN KIT, AND WALL HANGER KIT
ECO	EXTERIOR CLEANOUT	ZURN MODEL #1454-HD	---	---	LINE SIZE	---	SIZE PER PIPING LATERAL, 4" MAX., PROVIDE WITH 18 X 18 X 4 INCH THICK CONCRETE PAD SET FLUSH TO GRADE
ET	EXPANSION TANK	WATTS MODEL PLT-5	3/4"	---	---	---	FDA APPROVED, POTABLE WATER EXPANSION TANK, 2.1 GALLON ACCEPTANCE
FCO	FLOOR CLEANOUT	ZURN MODEL #1454	---	---	LINE SIZE	---	SIZE PER PIPING LATERAL, 4" MAX.
FPHB	HOSE BIBB	ZURN MODEL #1321-WC	---	---	3/4"	---	3/4" NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING WITH INTEGRAL BACKFLOW PREVENTER. SIZE PER WALL THICKNESS.
MS	FLOOR MTD. MOP SINK	ZURN MODEL Z1996-36	1/2"	1/2"	3"	2"	FURNISH SINK, ZURN MODEL NO. Z843M1 SERVICE SINK FAUCET WITH BUILT-IN VACUUM BREAKER, HOSE AND BRACKET, MOP HANGER, AND DRAIN KIT
LAV	HANDICAP WALL HUNG LAVATORY	ZURN MODEL NO. Z5344 WITH 1/2 GPM FLOW RESTRICTOR, GRID DRAIN. FAUCET HOLES ON 4" CENTERS	1/2"	1/2"	1 1/2"	1 1/2"	♿ FURNISH LAVATORY, ZURN Z86500-XL LEAD FREE METERING FAUCET, WALL HANGER KIT, SUPPLY STOPS & TUBES, DRAIN, AND ADA PIPING PROTECTION
TMV	MIXING VALVE	ZURN ZW3870-XLT	3/8"	3/8"	---	---	3/8" TEMPERED OUTLET, MAX OUTLET TEMP. 105F IN ACCORDANCE WITH NSF/ANSI 61-9 AND AND 1070, AND NSF/ANSI 61.9.
WC	HANDICAP WATER CLOSET	ZURN MODEL Z5560 17" H ELONGATED PRESSURE ASSIST 1.6 G.P.F.	1/2"	---	3"	2"	♿ FURNISH ADA CLOSET & TANK, ADA OPEN FRONT SEAT, SELF SUSTAINING HINGE, FLOOR FLANGE, CLOSET BOLTS & CAPS, WAX RING, SUPPLY STOP & TUBE. FLUSH CONTROL MUST BE LOCATED ON THE WIDE/ACCESS SIDE OF THE WC (SIDE OPPOSITE THE WALL).
WCO	WALL CLEANOUT	ZURN MODEL #Z-1445	---	---	LINE SIZE	---	RAISED HEADPLUG POLISH S.S. COVER & VANDAL PROOF SCREW
WH	ELECTRIC WATER HEATER	BRADFORD WHITE MODEL NO. RE110U6 WITH OATEY 34079 DRAIN PAN AND ZURN VR10 VACUUM RELIEF VALVE	3/4"	3/4"	---	---	FURNISH 10 GALLON SHORT WATER HEATER, 120V/1PH, 1,500 W ELEMENT WITH T & P RELIEF VALVE AND INTEGRAL HEAT TRAPS.

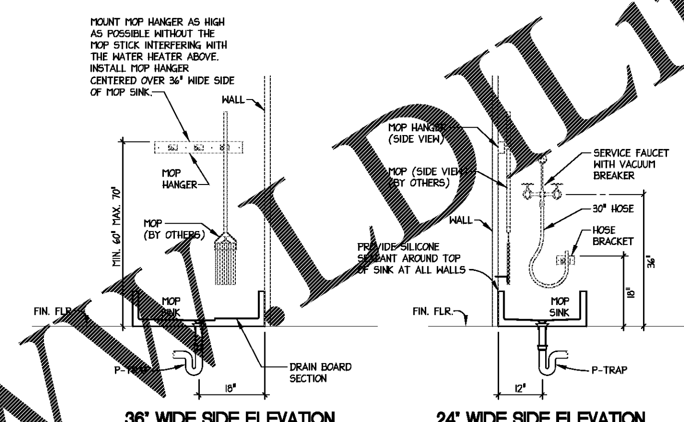
NOTE:
INSTALL ALL PLUMBING FIXTURES TO BE FULLY ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES IN ACCORDANCE WITH LATEST ISSUE OF THE AMERICANS WITH DISABILITIES ACT AND ALL CURRENT STATE AND LOCAL CODES. - 'PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE' AND/OR GOVERNING CODES. - ALL PLUMBING FIXTURES EQUIPMENT, TRIM, & FITTINGS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES. THE SCHEDULED AND/OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR THE CONTRACTOR'S BASE BID. IF THE SCHEDULED OR SPECIFIED FIXTURES OR EQUIPMENT DO NOT COMPLY WITH GOVERNING CODES OR REGULATIONS IN ALL RESPECTS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR COMPLYING FIXTURES, EQUIPMENT, TRIM, OR FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS & CODES.

ALL PIPING AND VALVES BELOW LAVATORY SHALL BE INSULATED WITH PVC LAV GUARDS AND CONFIGURED TO PROTECT AGAINST CONTACT PROVIDED WITH LAV KIT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORY.

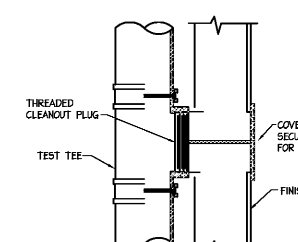


NOTES:
ALL WATER PIPING INSIDE BUILDING SHALL BE INSULATED PER CODE.
EXPANSION TANK, ET, TO BE MOUNTED ON COLD WATER LINE, ON THE TANK SIDE OF THE COLD WATER SHUTOFF VALVE.

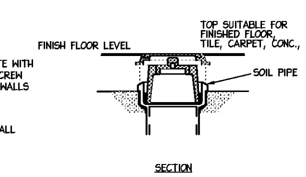
1 WATER HEATER DETAIL
NO SCALE



2 MOP SINK DETAIL
NO SCALE



3 WALL CLEANOUT DETAIL
NO SCALE



4 INTERIOR CLEANOUT DETAIL
NO SCALE (FCO)

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1/5/21

mark	date	by	description
revisions			

date	1/5/21
project	21108-08
designed	JCT
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