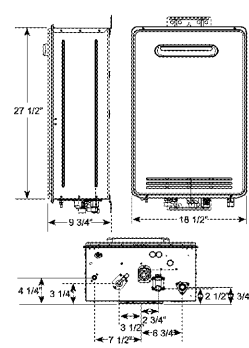
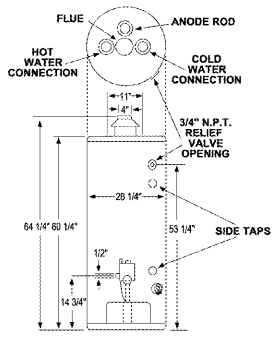


PLUMBING GENERAL NOTE

- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING FOR BIDDING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARED DETAILED SHOP DRAWINGS AND CONFIRM SPACE ALLOCATIONS.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS AND EXACT LOCATIONS OF FIXTURES.
- DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL EQUIPMENT AND CONFORM W/ OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR THE SYSTEM TO BE IN COMPLETE PROPER WORKING ORDER. THIS CONTRACTOR SHALL CO-ORDINATE HIS WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND DELAYS IN CONSTRUCTION.
- THE CONTRACTOR SHALL PAY ALL FEES, PERMITS, INSPECTIONS, TESTING AND MAINTAIN ALL REQUIRED INSURANCE.
- CONTRACTOR TO VERIFY LOCATION AND SIZES OF EXISTING UTILITIES PRIOR TO WORK AND CONTACT ARCHITECT OF ANY OR ALL DISCREPANCIES.
- ALL WORK SHALL CONFORM TO ALL LOCAL AND STATE CODES AND THE HEALTH DEPARTMENT HAVING JURISDICTION.
- PLUMBING CONTRACTOR SHALL REVIEW DRAWINGS OF ALL OTHER TRADES TO ASSURE THAT NO INTERFERENCE WITH ANY ARCHITECTURAL FEATURES WILL OCCUR. NOTIFY ARCHITECT OF ANY INTERFERENCES.
- CONTRACTOR MAY RE-LAYOUT TO HIS ADVANTAGE OR TO MISS INTERFERENCES WITHIN LIMITS OF LOCAL CODES. NOTIFY ARCHITECT OF ANY CHANGES.
- FURNISH AND INSTALL ALL SYSTEMS OF SOIL, WASTE, AND VENT PIPING, HOT & COLD WATER PIPING, AND DRAINAGE PIPING INCLUDING ALL FITTINGS, VALVES, ETC. AS REQUIRED.
- ALL PLUMBING WORK SHALL BE DONE UNDER THE SUPERVISION OF AND BY LICENSED AND QUALIFIED PLUMBERS PER ALL LOCAL, STATE, AND NATIONAL CODES AND TO THE COMPLETE SATISFACTION OF THE LOCAL PLUMBING INSPECTOR.
- SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS, SPECIFICATIONS, AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO BIDS FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTIONS AND SHALL BEAR ALL COSTS OF INSTALLING NEW WATER METER.
- ALL MATERIALS SHALL BE NEW, CLEAN, AND WITHOUT DEFECTS. ANY DEFECTIVE MATERIALS SHALL BE REMOVED FROM THE JOB SITE.
- ALL PLUMBING PIPING SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE AND ABOVE DROP CEILINGS.
- ALL COPPER DOMESTIC PIPING SHALL HAVE SOLDER JOINTS, 95-5 NO-LEAD SOLDER, AND SUPPORTED SDEQUATELY FORM STRUCTURE WITH SPLIT RING HANGERS.
- ALL HOT WATER PIPING, AND COLD WATER PIPING IN UNCONDITIONED SPACES SHALL BE INSULATED WITH 1/2" THICK PRE-FORMED FOAM PIPE INSULATION, IMCLOCK OR EQUAL. INSULATE FITTINGS WITH MITERED SECTIONS.
- SANITARY, WASTE, AND VENT PIPING ABOVE GRADE SHALL BE NO-HUB CAST IRON OR ASTM 02665-81 PVC SCHEDULE 40 PIPE.
- GAS PIPING SHALL BE SCHEDULE 40 ASTM A120-84 BLACK STEEL WITH 150# BLACK MALLEABLE FITTINGS AND DART #0822 UNIONS. PROVIDE DRIP LESS AND CAPS FOR MOISTURE REMOVAL. PROVIDE UNIONS AND LUBRICATED PLUGS FOR ALL EQUIPMENT.
- CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS AT EACH CHANGE IN DIRECTION. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
- PROVIDE VALVES IN DOMESTIC WATER SYSTEM TO CUT-OFF WATER SERVICE MAIN INSIDE THE BUILDING, AT EACH WALL HYDRANT, AND TO ISOLATE EACH FIXTURE IN THE BUILDING.
- PROVIDE BACK-FLOW PREVENTER AND SHUT-OFF VALVES AT WATER ENTRANCE, OR AS SHOWN, WATTS SERIES 009 OR EQUAL, WITH DRAIN TO OUTSIDE.
- PROVIDE WATER PRESSURE REDUCING VALVE WATTS USB OR EQUAL, (SET AT 50 PSIG)
- INSULATE ALL EXPOSED PIPING UNDER HANDICAPPED LAVATORIES WITH TRU-BRO OR EQUAL.
- FIRESTOPS SHALL BE PROSEY "FIRESTOP PENETRATORS" OR APPROVED EQUAL.
- PLUMBING CONTRACTOR SHALL FURNISH TO THE GENERAL CONTRACTOR ALL ACCESS PANELS TO BE INSTALLED AS REQUIRED FOR ANY PLUMBING INSTALLATIONS.
- SLEEVES SHALL BE INSTALLED WHERE ALL PIPES PENETRATE STRUCTURE.
- ALL OPENING THRU FIRE RATED WALLS AND FLOORS SHALL BE SLEEVED AND SEALED WITH PROPER FIREPROOFING MATERIAL TO MAINTAIN THE INTEGRITY OF TO STRUCTURE.
- PROVIDE MANUFACTURED COMPATIBLE PIPE HANGERS, RODS AND INSERTS. NO BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING SHALL BE PERMITTED.
- PIPE VIBRATION AND SWAYING WILL NOT BE PERMITTED.
- PROVIDE SUITABLE BACKING AND SUPPORT FOR ALL PLUMBING FIXTURES.
- OFFSET ALL VTR'S AS REQUIRED. VTR'S NOT SHOWN ON THE DRAWINGS.
- ALL VTR'S SHALL BE 25" FROM ALL A/C INTAKES OR AS REQUIRED BY CODES.
- UPON COMPLETION THE CONTRACTOR SHALL FURNISH TO THE OWNER ONE REPRODUCIBLE "AS-BUILT" DRAWING WHICH SHALL SHOW ALL PIPING INSTALLED.
- ALL WATER PIPING ABOVE OR BELOW GROUND SHALL BE TYPE 'L' INSULATE ALL HW & ALL CW PIPE SUBJECT TO CONDENSATION.
- ABOVEGROUND DOMESTIC WATER PIPING SHALL BE TYPE 'L' COPPER TUBE, WITH SOLDER JOINTS.
- ALL WATER PIPING SHALL BE INSULATED WITH ARMSTRONG AP ARMAFLEX OR EQUAL. INSTALL 1/2" INSULATION FOR COLD WATER LINES, AND 1" INSULATION FOR HOT WATER LINES.
- ALL INSULATED PIPING IN AREAS SUBJECT TO WASH DOWN SHALL BE PROVIDED WITH A PVC JACKET AND JOINTS SHALL BE FUSED WATERTIGHT. ALL DROPS SHALL BE LABELED.
- UNDERGROUND DOMESTIC WATER PIPING SHALL BE TYPE 'K' COPPER TUBE, WITH NO JOINTS.
- SOIL, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WHERE ACCEPTED BY LOCAL CODES.
- UNLESS NOTED OTHERWISE, ALL SANITARY PIPING SHALL SLOPE AT 1/8-INCH PER LINEAR FOOT OF TRAVEL.
- UNDERGROUND SANITARY LINES SHALL BE PVC, SCHEDULE 40, DWV TYPE WITH SOLVENT WELD JOINTS.
- ABOVEGROUND SANITARY PIPING SHALL BE PVC, SCHEDULE 40, DWV TYPE WITH SOLVENT WELD JOINTS. IF PIPING IS IN A RETURN AIR PLENUM OR FIRE RATED WALL SYSTEM, PIPING SHALL BE NO-HUB CAST IRON SOIL PIPE AND FITTINGS.
- ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS & ACCESS PANELS.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR.
- ALL SINKS AND LAVATORIES FOR USE BY THE HANDICAPPED SHALL HAVE HOT SUPPLY AND P-TRAP INSULATED PER ADA.
- UPON COMPLETION OF THE WORK, TEST ALL PIPING SYSTEMS AS FOLLOWS:
 - DRAINAGE SYSTEMS INCLUDING SANITARY SEWERS, ROOF DRAINAGE, AND SANITARY VENTS: PLUG LOW POINTS OF SYSTEM AND FILL WITH WATER TO UPPERMOST OUTLET UP TO TWELVE(12) FEET HIGH, WHICHEVER IS LOWER. LET SYSTEM STAND FULL OF WATER WITH NO INDICATIONS OF LEAKS.
 - DOMESTIC HOT AND COLD WATER - 150 PSIG HYDROSTATIC TEST. HOLD HYDROSTATIC TESTS FOR A MINIMUM OF EIGHT(8) HOURS WITHOUT LOSS OF PRESSURE. HOLD AIR TESTS FOR A MINIMUM OF ONE HOUR WITHOUT SIGNIFICANT LOSS OF PRESSURE. WITH APPROVAL OF ARCHITECT, AIR TESTING MAY BE SUBSTITUTED FOR HYDROSTATIC TESTING IN FREEZING WEATHER.
 - GAS PIPING - 60 PSIG AIR PRESSURE TEST. MAINTAIN THIS PRESSURE FOR A MINIMUM OF EIGHT(8) HOURS WITHOUT A LOSS OF PRESSURE. FOLLOW INSTRUCTIONS 2.11 AND 2.12 IN NFPA MANUAL 54.
- RETESTING - RETEST PIPING FAILING INITIAL TESTS FOLLOWING CORRECTION OF DEFECTIVE WORK. REQUIREMENTS OF INITIAL TESTS SHALL APPLY.



TANKLESS WATER HEATER



75 GAL. WATER HEATER

NEW WATER HEATER SCHEDULE						
MARK	SERVICE	SOURCE	BTUH	CAPACITY	MANUFACTURER	MODEL NO.
TLWH	SEE PLAN	GAS	199,000	TANKLESS	RHEEM	RTGH-CM95XL
WH	SEE PLAN	GAS	75,000	75 GAL.	RHEEM	XG75T12ST76UO

1 WATER HEATER DETAIL
P1.0 N.T.S.

2 PRESSURE REDUCING STATION
P1.0 N.T.S.

3 TYP. FLOOR DRAIN DETAIL
P1.0 N.T.S.

EQUIPMENT PLUMBING NOTE

- THESE PLANS AREA FOR THE SOLE PURPOSE OF INDICATING THE LOCATION OF OUTLETS AND EQUIPMENT REQUIREMENTS. PLUMBING MUST COMPLY WITH ALL APPLICABLE CODES.
- PLUMBING OUTLETS AND CONNECTIONS SHOWN ON THIS PLAN ARE FOR FIXTURES AND EQUIPMENT SHOWN AND SPECIFIED HEREIN. FOR ADDITIONAL FLOOR DRAINS AND BUILDING PLUMBING EQUIPMENT REQUIREMENTS, SEE ARCHITECT, GENERAL CONTRACTOR OR OWNER.
- ALL HORIZONTAL DIMENSIONS ARE TAKEN FROM FACE OF FINISHED WALL TO CENTERLINE OF OUTLET OR FROM CENTERLINE OF OUTLET TO CENTERLINE OF OUTLET, UNLESS OTHERWISE NOTED ON PLAN OR DETAILS.
- ALL SYMBOLS NOTED UP+18", UP+36", ETC. TO STUB OUT OF WALL (MINIMUM OF 4") AT HEIGHT INDICATED. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF OUTLET. ALL OUTLETS NOTED "STUBUP" OR "STUBOUT" TOP OF FINISHED FLOOR, OR FINISHED CURB, AS THE CASE MAY BE. A MAXIMUM OF 4" SO AS NOT TO INTERFERE WITH THE INSTALLATION OF FIXTURES. DIMENSIONS AND NOTES FOR ROUGH-IN ARE INTENDED AS A POINT FOR FINAL EQUIPMENT AND FIXTURE ROUGH-IN AS SPECIFIED.
- SPARE:
- GENERAL CONTRACTOR TO CONNECT ALL WATER LINES, GAS LINES (FIRE SYSTEM SOLENOID), WASTE LINES, ETC. FOR SINKS, EQUIPMENT AS REQUIRED.
- SPARE:
- GENERAL CONTRACTOR TO PROVIDE THE FOLLOWING ITEMS:
 - GATE VALVES ON ALL WATER AND GAS LINES, AND WADE SHOCK STOPS (MODEL #W5 OR EQUAL) ON GLASS FILLERS AND DISHWASHERS IF/AS REQUIRED.
 - ALL FAUCETS FOR SINKS UNLESS OTHERWISE NOTED (TO BE SPECIFIED AND SUPPLIED).
 - ALL VALVES, TRIMS AND PRESSURE REGULATORS NECESSARY TO CONNECT ALL LINES.
 - TEMPERATURE AND PRESSURE SAFETY RELEASE VALVES FOR HOT WATER BOOSTER - SEE INSTALLATION MANUAL.
 - BACKFLOW PREVENTION DEVICES, AS REQUIRED BY CODE.
 - DIALECTIC COUPLERS, WHEN CONNECTING GALVANIZED IRON PIPE TO COPPER.
- SPARE:
- WATER PROVIDED TO COFFEE URNS OR COFFEE MAKERS MUST NOT FEED OFF WATER SOFTENERS. WATER SOFTENERS MUST BE OTHERWISE NOTED.
- SPARE:
- ALL WORK SHOWN ON FIXTURE PLAN AND OUTLINED IN ABOVE NOTES TO BE PERFORMED BY GENERAL CONTRACTOR UNDER BIDDING CONTRACT. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO SEE THAT HIS PHASE OF WORK MEETS AND IS INSTALLED IN ACCORDANCE WITH STANDARDS REQUIRED BY ALL GENERAL STATE AND FEDERAL LAWS (INCLUDING HEALTH CODES) ANY AND ALL CODES REQUIRED BY THE MUNICIPALITY OF AREA WHERE JOB IS BEING INSTALLED.

6 FLOOR DRAIN DETAIL
P1.0 N.T.S.

4 WALL CLEANOUT DETAIL
P1.0 N.T.S.

5 FLOOR CLEANOUT DETAIL
P1.0 N.T.S.

PLUMBING FIXTURES

- FD FLOOR DRAIN: CAST IRON BODY WITH FEEDING COLLAR, ADJUSTABLE STRAINER, J. R. SMITH 2005 OR EQUAL
- L LAVATORY (CTR-TOP, DROP-IN, HANDICAP, 20" x 17", 4" CENTERS, SQ. LEVEL, GRID DRAIN, 0.5 GPM SPRAY, OFFSET TAILPIECE, PRIMER TRAP); AMERICAN STANDARD USA, MODEL #800, FACSET DELTA 250-DST, WITH P-TRAP SMITH 2698
- WC WATER CLOSET (FLR MTD, CERAMIC, 16" TANK, 16" GAL., HANDICAP); TOTO CST744SL, SEAT TOTO SC534, 17" RIM TO FINISHED FLOOR
- TLW WATER HEATER SHALL BE RHEEM RTGH-CM95XL OR APPROVED EQUAL PRODUCT. THERMAL EXPANSION TANK, SIZED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE AUXILIARY DRAIN PAN AND CONCENTRIC VENTING KIT.
- WH WATER HEATER SHALL BE RHEEM XG75T12ST76UO OR APPROVED EQUAL PRODUCT. THERMAL EXPANSION TANK, SIZED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE AUXILIARY DRAIN PAN AND CONCENTRIC VENTING KIT.

9 FLOOR SINK DETAIL W/ AIR GAP
P1.0 N.T.S.

7 TRAP PRIMER DETAIL
P1.0 N.T.S.

8 HUB DRAIN DETAIL
P1.0 N.T.S.

LAPER
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