

## GENERAL NOTES

- PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE PLUMBING AND GAS CODE INCLUDING ALL LOCAL AMENDMENTS.
- . OBTAIN ALL PERMITS AND PAY ALL FEES ASSOCIATED WITH THIS WORK PRIOR TO

THE SITE AND FAMILIARIZE HIMSELF WITH DETAILS OF CONSTRUCTION.

- PIPING AND EQUIPMENT IS SHOWN DIAGRAMMATICALLY. THE ACTUAL ROUTING OF PIPING AND
- EXACT LOCATION OF EQUIPMENT SHALL BE DETERMINED IN THE FIELD.
- 4. IN ADDITION TO REVIEWING AND COORDINATING WITH THE OTHER TRADES (CIVIL, STRUCTURAL, ARCHITECTURAL, FIRE PROTECTION, HVAC, AND ELECTRICAL) THE CONTRACTOR SHALL VISIT
- FURNISH AND INSTALL ALL NECESSARY PIPING, EQUIPMENT SUPPORTS AND ANY EQUIPMENT NOT SHOWN ON DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
- PROVIDE ACCESSIBLE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLY PIPING TO INDIVIDUAL FIXTURES AND EQUIPMENT.
- 7. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.
- 8. FURNISH ACCESS PANELS TO THE GENERAL CONTRACTOR FOR INSTALLATION UNDER THE RELATED TRADES.
- 9. PITCH ALL WATER LINES TO DRAIN.

**ABBREVIATIONS** 

ACOUSTICAL TILE

ACCESS PANEL

CHILLED WATER

CAST IRON

CLEANOUT

CONTINUATION

CONTRACTOR

COLD WATER

DOWN

DRAWING

EXISTING

FLOOR

FOOT

ELEVATION

FLOOR CLEANOUT

FIXTURE NUMBER

FIRE PROTECTION

FLOW SWITCH

FLUSH VALVE

GALVANIZED

HANDICAPPED

INSIDE DIAMETER

INDIRECT WASTE

IDENTIFICATION

NORMALLY OPEN

NOT TO SCALE

NORMALLY CLOSED

NOT IN CONTRACT

**OUTSIDE DIAMETER** 

PLUMBING CONTRACTOR

POUNDS PER SQUARE INCH

REDUCED PRESSURE BACKFLOW

SINK-FIXTURE IDENTIFICATION

URINAL-FIXTURE IDENTIFICATION

OPEN END DRAIN

PLUMBING

PREVENTER

**SPECIFICATION** 

SOIL STACK

TYPICAL

VENT

WASTE

SHOCK ABSORBER

VACUUM BREAKER

VENT THRU ROOF

IDENTIFICATION

WATER CLOSET-FIXTURE

VENT STACK

MECHANICAL

HOT WATER

INVERT

FILTERED WATER

GENERAL CONTRACTOR

GALLONS PER MINUTE

HOT WATER CIRCULATING

LIMIT OF PLUMBING CONTRACTOR

MOP SERVICE BASIN-FIXTURE

GALLON PER FLUSH

CONNECT TO EXISTING

CEILING

CONTR

EL/ELEV

ARCHITECT

BUILDING

ABOVE FINISH FLOOR

CUBIC FEET PER HOUR

CUBIC FEET PER MINUTE

- 10. INSTALL HORIZONTAL RUNS OF WATER PIPING AS HIGH AS POSSIBLE AND PROVIDE DRAIN-OFFS AT ALL LOW POINTS.
- 11. HOT WATER TAKEOFFS SHALL HAVE NOT LESS THAN THREE ELBOW SWINGS.
- 12. PIPING SHALL RUN CONCEALED IN ALL AREAS WITH THE EXCEPTION OF MECHANICAL ROOMS, AREAS WHERE NO CEILING EXISTS OR WHERE NOTED ON THE PLANS.
- 13. INSTALL DIELECTRIC COUPLINGS BETWEEN DISSIMILAR MATERIALS.
- 14. PROVIDE DRIP LEGS FOR ALL GAS RISERS.
- 15. AN AIR GAP OF AT LEAST TWICE THE EFFECTIVE DIAMETER OF THE DRAIN SERVED SHALL BE PROVIDED ON ALL EQUIPMENT DRAINS PIPED TO DRAINS.
- WHEN PIPE PENETRATIONS ARE MADE.
- 17. REFER TO RISER DIAGRAMS AND DETAILS FOR PIPE AND EQUIPMENT SIZES NOT SHOWN ON THE

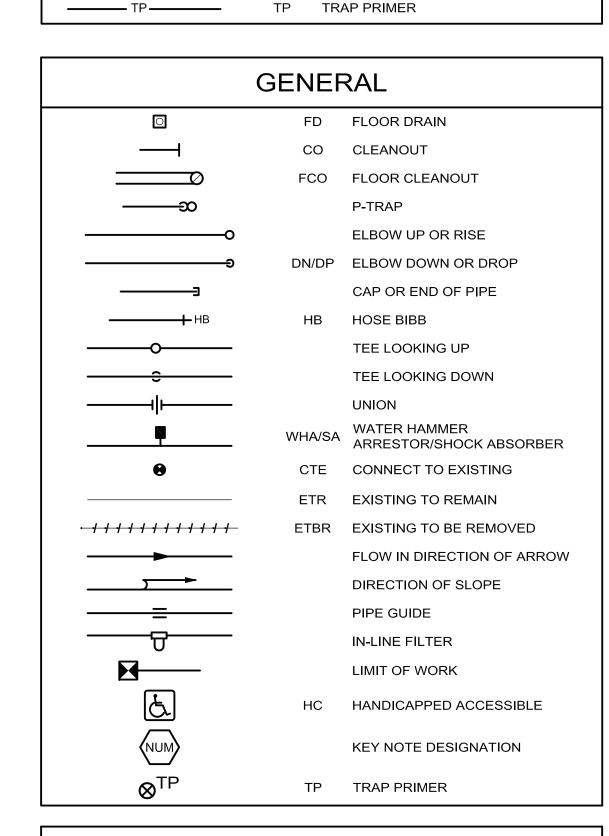
16. REQUIRED FIRE RESISTANCE RATING OF FLOORS, WALLS AND CEILINGS SHALL BE MAINTAINED

- 18. ALL WORK SHOWN ON RISER DIAGRAMS BUT NOT ON PLANS OR VICE VERSA SHALL BE INCLUDED AS IF SHOWN ON BOTH.
- 19. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.

## **DEMOLITION NOTES**

- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXTENT OF THE DEMOLITION SCOPE OF WORK AND AREA.
- THE LOCATIONS OF EXISTING EQUIPMENT INCLUDING PIPING, DUCTWORK, EQUIPMENT, CONDUITS, ETC ARE SHOWN IN AN APPROXIMATE WAY ONLY. VISIT THE SITE PRIOR TO SUBMISSION OF THE BIDS AND COMMENCEMENT OF WORK TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF THE
- TRACE AND LABEL ALL EXISTING SYSTEMS WITHIN THE DEMOLITION AREA AND BEYOND PRIOR TO DISCONNECTION AND REMOVAL TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION AREA IS AFFECTED. REVIEW IN DETAIL WITH THE GENERAL CONTRACTOR AND OWNER WHAT IS TO BE REMOVED AND REMAIN PRIOR TO WORK COMMENCING THE DEMOLITION. THERE SHALL BE NO INTERRUPTION OF SERVICES OUTSIDE THE DEMOLITION AREA WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE.
- COORDINATE EQUIPMENT REMOVAL WITH ALL PARTIES TO PROVIDE DISCONNECTION. REMOVE EQUIPMENT BY UNFASTENING AT THE SUPPORTS OR ATTACHMENTS. ALSO REMOVE THE ATTACHMENTS FROM THE BUILDING, LEAVING NO COMPONENT OF THE ORIGINAL INSTALLATION.
- EXERCISE CARE WITH EQUIPMENT THAT IS TO BE RELOCATED OR TURNED OVER TO THE OWNER. EXAMINE THE EQUIPMENT BEFORE REMOVAL IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE TO DETERMINE ITS CONDITION. DELIVER OWNER-RETAINED EQUIPMENT TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER AND OBTAIN ACKNOWLEDGMENT OF RECEIPT IN ORIGINAL CONDITION.
- INSTALL RELOCATED EQUIPMENT IN ORIGINAL CONDITION ENSURING NO DAMAGE.
- PROMPTLY REPAIR ANY DAMAGE CAUSED DURING/BY THE EXECUTION OF WORK. DAMAGE INCLUDES BUT IS NOT LIMITED TO DESTRUCTION OF ITEMS INTENDED TO REMAIN OR TO BE SALVAGED.
- NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING THE DEMOLITION.
- ALL ITEMS REMOVED SHALL BE OFFERED TO THE OWNER FOR SALVAGE. IF THE OWNER DOES NOT TAKE POSSESSION, DISPOSE OF THE ITEMS IN A SAFE AND LEGAL MANNER. ALL ITEMS CLASSIFIED AS HAZARDOUS SHALL BE DISPOSED AS HAZARDOUS WASTES AND A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PROVIDED TO THE OWNER.
- ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
- DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, SUCH AS DUCT AND PIPE INTERIORS, VERIFY CONDITION AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS. MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.
- NOTIFY UTILITY COMPANIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO DEMOLITION. VERIFY THAT THE UTILITIES HAVE BEEN DISCONNECTED, VALVED, CAPPED AND MADE SAFE PRIOR TO DEMOLITION.
- DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND PROPERLY DISPOSE OF CHEMICALS, LIQUIDS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS.
- PROPERLY LABEL ALL UNLABELED SERVICE PIPELINES AND VALVES TO REMAIN WITH COLOR PIPE MARKERS AND VALVE TAGS. MOUNT A VALVE AND SERVICE CHART IN THE AREA OF DEMOLITION THAT IDENTIFIES ALL LABELED SERVICES. TURN ONE COPY OF SAME OVER TO THE OWNER.
- PRIOR TO DEMOLITION, MAKE SAFE ALL SERVICE PIPE TERMINATIONS TO THE AREA. PROVIDE VALVE AND CAPS ON PRESSURE SERVICES TO THE AREA THAT ARE TO REMAIN IN SERVICE.

## PIPING LEGEND CHW CHILLED WATER FW FILTERED WATER CW DOMESTIC COLD WATER DOMESTIC COLD WATER BELOW SLAB HW DOMESTIC HOT WATER \_\_\_\_\_ HWC DOMESTIC HOT WATER CIRCULATING S or W SOIL OR WASTE ABOVE GROUND S or W SOIL OR WASTE BELOW SLAB -----VENT ABOVE GROUND VENT BELOW SLAB -----INDIRECT WASTE INDIRECT WASTE BELOW SLAB \_\_\_\_\_W\_\_\_ NATURAL GAS PIPING



VALVE LEGEND

BALL VALVE

GATE VALVE

CHECK VALVE

GAS COCK

MIXING VALVE

ANGLE VALVE

AQUASTAT

THERMOMETER

PRESSURE GAUGE

SOLENOID VALVE

—— DETAIL DESIGNATION NUMBER

DETAIL DESIGNATION DRAWING

**DESIGNATION INDICATOR** 

BALANCING VALVE

VACUUM RELIEF VALVE

PRESSURE REDUCING/REGULATING

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**ABBREVIATIONS** 

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Owner's Branch No.: