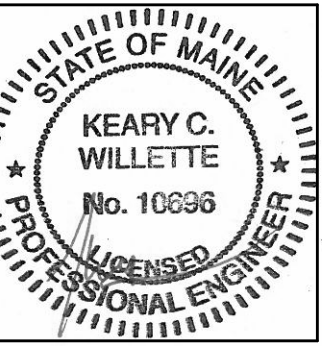


GENERAL PLUMBING NOTES	GENERAL ABBREVIATIONS	GENERAL SYMBOLS	PIPING SYMBOLS	MEDICAL GAS SYMBOLS				
<p><b>DESCRIPTIONS</b></p> <p>1. ALL PLUMBING GENERAL NOTES, SYMBOLS, LISTS AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING DRAWINGS FOR THIS PROJECT.</p> <p>2. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXACT LOCATIONS AND ARRANGEMENTS OF EXISTING NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER COMPONENTS SHALL BE DETERMINED IN THE FIELD WITH DUE CONSIDERATION OF STRUCTURAL, ELECTRICAL AND ARCHITECTURAL SYSTEMS. EXISTING STRUCTURAL SYSTEMS SHALL NOT BE MODIFIED WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.</p> <p>3. THE PROJECT SHALL BE PHASED IN ACCORDANCE WITH THE APPROVED PHASING PLAN. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER FOR THE SEQUENCING AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK. SEE SPECIFICATIONS.</p> <p>4. CONTRACTOR IS TO MAINTAIN SERVICE TO ROOMS OUTSIDE THE PROJECT SCOPE OF WORK AND PHASING SCHEDULE. IF INTERRUPTION OF SERVICE IS REQUIRED COORDINATE SHUTDOWN WITH PROJECT ENGINEER.</p> <p>5. CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. RESTORE DAMAGED AREAS THAT ARE BEYOND THE SCOPE OF THIS CONTRACT TO THEIR ORIGINAL CONDITION.</p> <p>6. WHERE INDICATED ON THE DRAWINGS, REMOVE OR RELOCATE EXISTING COMPONENTS AS REQUIRED TO ACCOMMODATE THE NEW WORK. REMOVALS SHALL INCLUDE ALL ASSOCIATED OFF-SITE DISPOSAL COSTS.</p> <p>7. COORDINATE REMOVALS AND RELOCATIONS INCLUDING SELECTIVE CUTTING AND PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL CONTRACTORS.</p> <p>8. MOST PARTITIONS ARE FULL HEIGHT AND REQUIRE UTILITIES PENETRATIONS TO BE SEALED. SEE ARCHITECTURAL DWGS FOR PARTITION HEIGHTS. DUCTWORK SHOWN FOR CLARITY THAT MAY RUN PARALLEL TO WALL PARTITIONS WILL REQUIRE LOCATING IN THE FIELD TO MINIMIZE CONFLICT WITH PARTITIONS.</p> <p>9. FIELD VERIFY EXISTING EQUIPMENT AND PIPING PRIOR TO REMOVAL OR REUSE. CONFIRM WITH PROJECT ENGINEER THAT ALL EQUIPMENT AND PIPING DESIGNATED TO BE REMOVED IS NO LONGER IN SERVICE PRIOR TO ITS REMOVAL. PROJECT ENGINEER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMO EQUIPMENT.</p> <p>10. EXISTING EQUIPMENT AND PIPING TO REMAIN IN SERVICE SHALL BE INSPECTED, REPORT INOPERABLE EQUIPMENT TO PROJECT ENGINEER.</p> <p>11. ALL UNUSED (ABANDONED), PIPING AND EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED AND CAPPED.</p> <p>12. TIE-IN POINT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS IN THE FIELD BASED ON EXISTING CONDITIONS.</p> <p>13. COORDINATE THE LOCATIONS OF ALL WALL MOUNTED EQUIPMENT WITH FINAL EQUIPMENT/FURNITURE LAYOUT.</p> <p>14. AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A CLEAN AND NEAT CONDITION.</p> <p>15. INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD PRACTICE NORMAL TO THE TRADE. INSTALLATION SHALL INCLUDE PROVISIONS FOR ACCESS TO NORMAL MAINTENANCE ITEMS SUCH AS BELTS, BEARINGS, FILTERS AND MOTORS. PROVIDE ADEQUATE STRUCTURAL SUPPORTS AND SECURE MOUNTING METHODS WITH PROVISIONS FOR VIBRATION ISOLATION AND EXPANSION WHERE REQUIRED.</p> <p>16. COORDINATE ALL PENETRATIONS WITH GENERAL CONTRACTOR. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION DETAILS. PLUMBING CONTRACTOR SHALL PROVIDE FLASHING AND COUNTER FLASHING FOR ROOF PENETRATIONS AS REQUIRED.</p> <p>17. PROVIDE PIPE SUPPORTS, GUIDES AND OFFSETS AS NECESSARY TO PREVENT UNDUE STRAIN ON PIPING.</p> <p>18. SEE DETAILS AND PIPING DIAGRAMS FOR ADDITIONAL VALVES AND FITTINGS NECESSARY FOR COMPLETE PIPING SYSTEMS.</p> <p>19. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.</p> <p>20. CONTRACTOR SHALL FIELD VERIFY ALL CLEARANCES AND DIMENSIONS.</p> <p>21. PROVIDE ACCESS PANELS FOR ALL CONCEALED SHUT-OFF VALVES EXCEPT THOSE ABOVE SUSPENDED CEILING.</p> <p>22. INFILL ALL NEW OR EXISTING ABANDONED FLOOR SLAB PENETRATIONS WITH GROUT. FULL THICKNESS OF SLAB. MAINTAIN 2 HR FIRE RATING. ALL EXISTING CONCRETE FLOORS AND CHASES ARE 2 HOUR FIRE RATED.</p> <p>23. ALL DOMESTIC WATER SUPPLY, VENT AND MEDICAL GAS PIPING SHALL BE RUN ABOVE CEILINGS OR WITHIN PARTITIONS UNLESS OTHERWISE NOTED.</p> <p>24. PLUMBING RISERS SHALL BE RUN CONCEALED WITHIN WALLS OR CHASES. COORDINATE WITH ARCHITECTURAL DRAWINGS.</p> <p>25. COORDINATE FINAL LOCATIONS OF MEDICAL GAS OUTLETS, AND VALVE BOXES WITH ARCHITECT.</p> <p>26. SANITARY LINES SHALL SLOPE 1/4" PER FOOT UNLESS NOTED OTHERWISE.</p>	<p><b>ABBREVIATIONS</b></p> <p>AD ABOVE FINISHED FLOOR          AFF ACCESS PANEL          AP ARCHITECT          AS AIR SEPARATOR          BS BELOW SLAB (TYPE "K" COPPER)          BTU BRITISH THERMAL UNIT          BTUH BRITISH THERMAL UNIT PER HOUR          C&amp;H COLD &amp; HOT WATER          CO CLEAN OUT          CONN CONNECT          CONTR CONTRACTOR          CW COLD WATER          DIA DIAMETER          DN DOWN          DR DRAIN          DW DRINKING WATER          DWV DRINKING WATER RECIRC.          DWG OR DWGS DRAWING(S)          E&amp;X OR (E) EACH          EA ELECTRICAL CONTRACTOR          EL EXPANSION LOOP          ET EXPANSION TANK          ETR EXISTING TO BE REMOVED          ETR EXISTING TO REMAIN          FC FLEXIBLE CONNECTION          FCO FLOOR CLEAN OUT          FD FLOOR DRAIN          FTDP FLOOR DRAIN W/ TRAP PRIMER          FPHB FREEZE PROOF HOSE BIBB          FPM FEET PER MINUTE          FT FEET          GAL GALLONS          GC GENERAL CONTRACTOR          GPM GALLONS PER MINUTE          GV GATE VALVE          H HEIGHT          HP HORSE POWER          HW HOT WATER          HWR HOT WATER RECIRCULATION          I.P.C. INTERNATIONAL PLUMBING CODE          ID INSIDE DIAMETER          IN INCHES          IR INDIRECT WASTE          KW KILOWATTS          MBH THOUSANDS OF B.T.U.'S PER HOUR          MECH MECHANICAL          MTD MOUNTED          N.C. OR NC NORMALLY CLOSED          N.O. OR NO NORMALLY OPEN          NIC NOT IN CONTRACT          NTS NOT TO SCALE          OD OUTSIDE DIAMETER          PLM PLUMBING CONTRACTOR          PSI POUNDS PER SQUARE INCH          RD ROOM          RM RELIEF VALVE          RWL RAIN WATER LEADER          S SANITARY          SD SANITARY DRAIN          SF SQUARE FEET          SP STATIC PRESSURE          SS STAINLESS STEEL          TYP TYPICAL          V VENT          VB VACUUM BREAKER          VTR VENT THROUGH ROOF          W WASTE          WCO WITH WALL CLEANOUT</p>	<p><b>SYMBOLS</b></p> <p>POINT OF CONNECTION TO EXISTING (TIE-IN POINT)          LIMIT OF DEMOLITION          EQUIPMENT, GRILLE, REGISTER OR DIFFUSER          TAG          REVISION TAG          REVISION CLOUD          EQUIPMENT DESIGNATION          KEYNOTE CALL OUT          PRESSURE GAUGE/WP/COCK          FLOW SWITCH          PRESSURE SWITCH          THERMOMETER IMMERSION WELL          AUTOMATIC AIR VENT          MANUAL AIR VENT          FEET          GALLONS          GENERAL CONTRACTOR          GALLONS PER MINUTE          GATE VALVE          HEIGHT          HORSE POWER          HOT WATER          HOT WATER RECIRCULATION          INTERNATIONAL PLUMBING CODE          INSIDE DIAMETER          INCHES          INDIRECT WASTE          KILOWATTS          THOUSANDS OF B.T.U.'S PER HOUR          MECHANICAL          MOUNTED          NORMALLY CLOSED          NORMALLY OPEN          NOT IN CONTRACT          NOT TO SCALE          OUTSIDE DIAMETER          PLUMBING CONTRACTOR          POUNDS PER SQUARE INCH          ROOM          RELIEF VALVE          RAIN WATER LEADER          SANITARY          SANITARY DRAIN          SQUARE FEET          STATIC PRESSURE          STAINLESS STEEL          TYPICAL          VENT          VACUUM BREAKER          VENT THROUGH ROOF          WASTE          WITH WALL CLEANOUT</p> <p>12" SIP          14" DN          1-1/2"</p>	<p><b>SYMBOLS</b></p> <p>EXISTING PIPING TO REMAIN          EXISTING PIPING TO BE REMOVED          NEW PIPING          DHWR DOMESTIC HOT WATER RECIRCULATION PIPING          DCW DOMESTIC COLD WATER PIPING          DHW DOMESTIC HOT WATER PIPING          V VENT PIPING          PIPING BELOW FLOOR/UNDER SLAB          G GAS PIPING          O OXYGEN          A MEDICAL AIR          MV MEDICAL VACUUM          N NITROGEN          NO NITROUS OXIDE          CO2 CARBON DIOXIDE          WAGO WASTE ANESTHESIA GAS DISPOSAL (EVAC)          DI DE-IONIZED WATER          PIPE DROP          PIPE RISER          PIPE TEES - DOWN          PIPE TEES - UP          PIPE CONNECTION          PIPE BREAK - TO CONTINUE          DIRECTION OF FLOW          GAS METER          WATER METER          PIPE SLOPE          P-TRAP          PIPE ANCHOR          PIPE CAP          PIPE GUIDE          WATER HAMMER ARRESTOR          U UNION          BLV BALL VALVE          BVF BUTTERFLY VALVE          SCV SWING CHECK VALVE          CBV CIRCUIT BALANCE VALVE          ACV 2-WAY AUTOMATIC CONTROL VALVE          ACV 3-WAY AUTOMATIC CONTROL VALVE (MIXING PATTERN)          GV GATE VALVE          GLV GLOBE VALVE          MPV MULTIPURPOSE VALVE          PRV PRESSURE REGULATING VALVE          T THERMOMETER          LCV LIFT CHECK VALVE          FLG FLANGE          STRAINER W/DRAIN VALVE AND CAP          DRAIN VALVE AND CAP          RELIEF OR SAFETY VALVE          PGV PLUG VALVE          OC QUICK CLOSING, FUSIBLE LINK          OO QUICK OPENING          SHC SQUARE HEAD COCK          BFP BACK FLOW PREVENTOR          ERD ECCENTRIC REDUCER (ENLARGER)          ERD ECCENTRIC REDUCER (ENLARGER)          FD FLOOR DRAIN          FCO FLOOR CLEAN OUT</p>	<p><b>SYMBOLS</b></p> <p>NEW MEDICAL GAS ALARM PANEL OR VALVE BOX          NEW WALL MOUNTED RECESSED OXYGEN OUTLET          NEW WALL MOUNTED RECESSED MEDICAL VACUUM OUTLET WITH SLIDE          NEW WALL MOUNTED RECESSED MEDICAL AIR BRACKET.</p>				
		<p><b>NEW EQUIPMENT SYMBOLS</b></p> <p>EXISTING MOP SINK OR SHOWER          EXISTING TOILET          EXISTING WATER COOLER          EXISTING PLUMBING FIXTURE TO REMAIN          NEW MOP SINK OR SHOWER          NEW TOILET          NEW WATER COOLER          NEW PLUMBING FIXTURE</p>		<p><b>PLUMBING ALTERNATE LIST</b></p> <table border="1"> <thead> <tr> <th>NUMBER</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td colspan="2">NOTE: REFER TO ARCHITECTURAL DOCUMENTS FOR DEDUCT ALTERNATE ITEMS.</td> </tr> </tbody> </table>	NUMBER	TITLE	NOTE: REFER TO ARCHITECTURAL DOCUMENTS FOR DEDUCT ALTERNATE ITEMS.	
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		<p><b>DEMOLITION EQUIPMENT SYMBOLS</b></p> <p>EXISTING MOP SINK OR SHOWER TO BE REMOVED          EXISTING TOILET TO BE REMOVED          EXISTING WATER COOLER TO BE REMOVED          EXISTING PLUMBING FIXTURE TO BE REMOVED</p>						

No.	Date	Description
		Revision Schedule



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DRWN: CHK:  
ERD KCW

SCALE:

ISSUE:  
PERMIT SET - 95%  
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TITLE:  
PLUMBING LEGEND  
AND GENERAL  
NOTES

SHEET  
**P001**



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