

# PLUMBING LEGEND

|             |   |
|-------------|---|
| —           | SANITARY, WASTE - S, W, SAN                                       |
| —ST—        | STORM BELOW FLOOR - ST  |
| —ST—        | STORM ABOVE FLOOR - ST  |
| ----        | VENT PIPING - V   |
| ----        | COLD WATER PIPING - CW  |
| ----        | HOT WATER PIPING - HW   |
| ----        | HOT WATER RETURN PIPING - HWR                                     |
| —G—         | GAS PIPING - G  |
| ----        | PIPING BELOW FLOOR  |
| ----        | EXISTING SANITARY (LINE WEIGHT LIGHTER THAN NEW PIPING)           |
| —ST—        | EXISTING STORM (LINE WEIGHT LIGHTER THAN NEW PIPING)              |
| ----        | EXISTING VENT (LINE WEIGHT LIGHTER THAN NEW PIPING)               |
| ----        | EXISTING CW (LINE WEIGHT LIGHTER THAN NEW PIPING)                 |
| ----        | EXISTING HW (LINE WEIGHT LIGHTER THAN NEW PIPING)                 |
| ----        | EXISTING HWR (LINE WEIGHT LIGHTER THAN NEW PIPING)                |
| —G—         | EXISTING G (LINE WEIGHT LIGHTER THAN NEW PIPING)                  |
| ////        | PIPING TO BE DEMOLISHED   |
| — —@—       | CLEANOUTS - CO, WCO, FCO, GCO                                     |
| ←←          | 45 DEGREE RISE OFF CENTER   |
| ⊗           | GATE VALVE - GV   |
| ⊙           | BALL VALVE - BV   |
| ⊗           | PRESSURE REDUCING VALVE - PRV                                     |
| ⊗           | BALANCING VALVE   |
| ⊗           | IN-LINE BACKFLOW PREVENTER  |
| ⊗           | HUB DRAIN   |
| ⊗           | FLOOR DRAIN - FD, FD-*; AREA DRAIN - AD, AD-*                     |
| ⊗           | ROOF DRAIN - RD, RD-*; OVERFLOW (SECONDARY) ROOF DRAIN - OD, OD-* |
| AAV         | AIR ADMITTANCE VALVE  |
| A/C         | ABOVE CEILING   |
| ADA         | AMERICANS WITH DISABILITIES ACT                                   |
| BFP         | BACKFLOW PREVENTER  |
| B/F         | BELOW FLOOR   |
| B/G         | BELOW GRADE   |
| CD          | CONDENSATE DRAIN  |
| CO          | CLEAN OUT   |
| CW          | COLD WATER  |
| DN          | DOWN  |
| EX          | EXISTING  |
| FCO         | FLOOR CLEANOUT  |
| FD          | FLOOR DRAIN   |
| GCO         | GRADE CLEANOUT  |
| GPM OR GPC  | GALLONS PER MINUTE; GALLONS PER CYCLE                             |
| HB          | HOSE BIBB   |
| HD          | HUB DRAIN   |
| HW          | HOT WATER   |
| HWR         | HOT WATER RETURN  |
| MBH         | 1000 BTU/HR   |
| NFWH        | NONFREEZE WALL HYDRANT  |
| PRV         | PRESSURE REDUCING VALVE   |
| PSI         | POUNDS PER SQUARE INCH  |
| S           | SANITARY SEWER  |
| T&P         | TEMPERATURE AND PRESSURE  |
| V           | VENT  |
| V/R         | VENT THROUGH ROOF   |
| W           | WASTE   |
| W           | WITH  |
| WCO         | WALL CLEANOUT   |
| WHA         | WATER HAMMER ARRESTOR   |
| TYP         | TYPICAL   |
| WHG-* WHE-* | WATER HEATER GAS OR ELECTRIC                                      |
| P.*         | PLUMBING FIXTURE  |
| ⊗           | EXTENT OF DEMOLITION; CONNECT TO EXISTING                         |

# PLUMBING GENERAL NOTES:

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS COMPLETELY COORDINATED WITH ALL DISCIPLINES. PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES AND CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ADDITIONAL COST TO THE OWNER. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL. CAREFULLY REVIEW CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- ANY CONFLICTS OF WORK SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK.
- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC. TO AVOID INTERFERENCE'S WITH EQUIPMENT, PIPING, DUCT WORK, LIGHTS, CONDUIT, STRUCTURAL MEMBERS, ETC.
- ALL INVERTS SHALL BE VERIFIED IMMEDIATELY FOLLOWING AWARD OF CONTRACT. ALL INVERTS SHALL BE COORDINATED WITH STRUCTURAL FOOTINGS.
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. COORDINATE THE EXACT SIZE AND LOCATION OF ALL SLEEVES WITH STRUCTURAL ENGINEER. ALL PENETRATIONS SHALL BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- ALL DRAINAGE PIPING AND POTABLE WATER PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS AS HIGH AS POSSIBLE.
- ALL SANITARY WASTE PIPING SHALL SLOPE AT A MINIMUM OF 1/4 INCH PER FOOT FOR PIPING UP TO 2" AND 1/8 INCH PER FOOT FOR PIPING 3" AND LARGER. U.N.O.
- COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, COLUMN FOUNDATIONS AND OTHER STRUCTURAL CONDITIONS. STRUCTURAL PLANS FOR DETAILS REGARDING ANY PIPING PARALLEL TO, THROUGH OR UNDER FOOTINGS AND PIERS
- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL PLUMBING FIXTURES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY ARCHITECT.
- MAKE FINAL CONNECTION TO ALL EQUIPMENT INDICATED ON DRAWINGS. FINAL CONNECTION SHALL INCLUDE ONLY ADAPTERS, NIPPLES, SHUTOFF VALVES, PRESSURE REGULATING VALVES, SHOCK ARRESTERS, BACKFLOW PREVENTION DEVICES, ETC.
- DO NOT RUN PLUMBING PIPING THROUGH TRANSFORMER VAULTS, ELECTRICAL CLOSETS, ELECTRICAL SWITCHGEAR ROOMS, ELEVATOR EQUIPMENT ROOMS, COMPUTER ROOMS, TELEPHONE ROOMS OR IN ELECTRICAL PANEL CLEARANCES.
- EXACT LOCATION OF ALL CLEANOUTS SHALL BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE TRAP GUARD DEVICE ON ALL FLOOR DRAINS AND HUB DRAINS UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCKOUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
- PROVIDE AN EXPANSION JOINT OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS THAT CROSS BUILDING EXPANSION JOINTS.
- THE USE OF SPLIT CLAMP AND THREADED ROD TO SUPPORT VERTICAL PIPE ALONG WALLS, OR COLUMNS IS PROHIBITED. PROVIDE B-LINE 22 STRUT & B-2000 PIPE CLAMP. SUPPORT ALL PIPE RISES AT BASE OF RISER.
- CARRIERS FOR THE WATER CLOSETS SHALL BE PROVIDED WITH THE NECESSARY ACCESSORIES TO ACCOMMODATE DIFFERENT WALL THICKNESS. SEE ARCHITECTURAL DRAWINGS. CARRIERS SHALL BE HORIZONTAL OR VERTICAL, BASED ON PIPE ROUTING SHOWN ON FLOOR PLANS. ALL HORIZONTAL CARRIERS SHALL BE 3" DISCHARGE
- VERIFY VOLTAGE, PHASE AND WIRE SIZE OF ANY PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO PURCHASING THE EQUIPMENT.
- SANITARY VENTS SHALL TERMINATE A MINIMUM OF 10 FT. FROM OR 2 FT. ABOVE ANY FRESH AIR INTAKES, WINDOWS OR VENT SHAFTS.
- HANG PIPE FROM SUBSTANTIAL BUILDING STRUCTURE. DO NOT HANG PIPE FROM OTHER PIPING, DUCTWORK, CEILINGS OR STEEL DECKING.
- DO NOT USE "C" CLAMPS TO SUPPORT PIPE HANGERS FROM THE STRUCTURE.
- THE CONTRACTOR SHALL VISIT EACH SITE TO ASSESS EXISTING CONDITIONS, INCLUDING SYSTEM LAYOUT, PIPE ROUTING, STRUCTURAL CONFLICTS, WALL CONSTRUCTION, AND OVERALL CONDITIONS OF EACH AREA WHERE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND EXISTING PIPE ROUTING PRIOR TO BIDDING THE PROJECT AND PRIOR TO FABRICATING ANY MATERIALS.

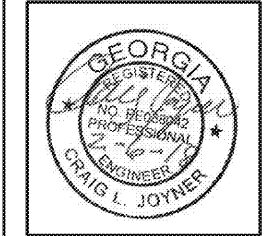
# PLUMBING DEMOLITION NOTES:

- ALL DEMOLITION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL ORDINANCES, ALL LIFE-SAFETY CODES, AND WITH ALL INDUSTRY STANDARDS PERTAINING TO THIS TYPE OF WORK.
- INSPECT THE BUILDING PRIOR TO THE START OF ANY WORK. FIELD VERIFY ALL OF THE EXISTING CONDITIONS AND PROVIDE MARKED UP DRAWINGS TO THE ARCHITECT DEPICTING DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS. THE LOCATIONS OF EXISTING CONDITIONS SHOWN ON THE DEMOLITION PLANS IS TO BE CONSIDERED AS APPROXIMATE. REPORT ALL DISCREPANCIES TO THE ARCHITECT, IN WRITING, PRIOR TO THE START OF ANY DEMOLITION.
- REMOVE AND DISPOSE OF ALL EQUIPMENT AND MATERIAL SHOWN TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
- THE DEMOLITION PHASE SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE START OF ANY WORK. SUBMIT WRITTEN COPIES OF THE APPROVED SCHEDULE TO THE OWNER AND THE ARCHITECT FOR THEIR REVIEW AND APPROVAL WITHIN 5 WORKING DAYS OF THE EXECUTION OF THE CONTRACT FOR THIS PHASE OF THE WORK.
- PROTECT ADJACENT PROPERTIES AND THE PUBLIC FROM DAMAGE OR INJURY AT ALL TIMES DURING THE DEMOLITION PHASE.
- PROTECT THE EXISTING PLUMBING SYSTEMS THAT ARE TO REMAIN AND THAT ARE SERVING OTHER TENANT SPACES. ANY DAMAGE TO EXISTING SYSTEMS THAT ARE TO REMAIN SHALL BE REPAIRED AT NO COST TO THE OWNER AND WITHOUT DELAY TO THE SCHEDULE.
- ALL SAW CUTTING OF FLOORS, WALLS, ETC TO BE PROPERLY MARKED AND CUT TO AVOID ANY SPALLED OR UNEVEN EDGES.
- PRIOR TO CUTTING AND/OR REMOVING ANY PLUMBING VERIFY THE LOCATION AND NOTIFY THE OWNER A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH ANY WORK ON THE PLUMBING LINES.
- REMOVE, CAP & PLUG ALL PLUMBING PIPING SERVING FIXTURES INDICATED TO BE DEMOLISHED. ALL END LEGS SHALL BE ELIMINATED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. CAP LINES IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- AFTER EXISTING PIPING IS REMOVED, PATCH EXISTING FLOOR OR WALL OPENINGS TO MATCH SURROUNDING SURFACES AND MAINTAIN THE FIRE RATING.

**THE ARCHITECTURE GROUP, INC.**  
 3115 Peachtree St. N.E.  
 Atlanta, GA 30305  
 Phone: (678) 222-0375  
 Fax: (678) 222-0384  
 info@architecturegroup.com

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**SPENCER BRISTOL  
 ENGINEERING, INC.**  
 A Gray Company  
 3577 Parkway Lane, Suite 250  
 Peachtree Corners, Georgia 30092  
 Tel. 770.414.1628 Fax 770.414.6024  
 SBE Project No. 1744

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