

DR. WESLEY GRANT CENTER EXPANSION

285 LIVINGSTON STREET ASHEVILLE, NC 28801

DESIGNER

CLARK NEXSEN

333 FAYETTEVILLE STREET, SUITE 1000 RALEIGH, NORTH CAROLINA 27601 919-828-1876

CLARK NEXSEN LICENSE NUMBER: C-1028

PROFESSIONAL SEAL



SUBMITTAL

03.12.2021

CONSTRUCTION DOCUMENTS

REVISIONS

Table with 2 columns: Description, Date. Multiple empty rows for revisions.

KEY PLAN

SHEET

PLUMBING LEGEND

P-001

DESIGN: DKB
DRAWN: DLR
REVIEW: WAW

CN 7904-A

GENERAL NOTES

- 1. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALED. FIELD VERIFY ALL DIMENSIONS, PIPE SIZES, AND INVERTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.
2. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. OFFSET PIPING WHERE REQUIRED TO AVOID CONFLICTS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM. NOTIFY CONSTRUCTION MANAGER/OWNER OF ANY CONFLICTS.
3. ALL DOMESTIC COLD WATER SUPPLY, DOMESTIC HOT WATER SUPPLY, AND DOMESTIC HOT WATER RETURN PIPING MUST BE INSULATED. DAMAGED OR REMOVED INSULATION IN AREAS OF NEW WORK MUST BE REPAIRED TO MATCH EXISTING.
4. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH CONTRACT PLANS, SPECIFICATIONS AND ALL APPLICABLE STATE AND LOCAL CODES.
5. PROVIDE A COMPLETE SYSTEM OF HOT AND COLD WATER, AND WASTE AND VENT PIPING TO ALL FIXTURES WITHIN THE BUILDING.
6. ALL WATER, SOIL, WASTE, AND VENT PIPING LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION, EXCEPT WHERE INDICATED OTHERWISE.
7. PIPING RUN IN RETURN AIR CEILING PLENUM SPACE SHALL BE CAST IRON OR OTHER CODE APPROVED METAL. PLASTIC WILL NOT BE PERMITTED.
8. MAKE PROPER PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
9. COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES.
10. ROUTING OF ALL PIPING SHALL BE COORDINATED WITH OTHER TRADES.
11. BASIS OF DESIGN FIXTURES AND EQUIPMENT ARE INDICATED IN THE PLUMBING FIXTURE SCHEDULE. PUMP SCHEDULE, WATER HEATER SCHEDULE, SPECIALTIES SCHEDULE AND OTHER SCHEDULES, AS A GUIDE FOR GENERAL QUANTITY AND PERFORMANCE DESIRED. FIXTURES AND EQUIPMENT BY OTHERS ARE ACCEPTABLE PROVIDED THEY ARE OF THE SAME TYPE, QUALITY, PERFORMANCE AND OPERATION EXCEPT WHERE MATCH EXISTING FIXTURE IS NOTED.
12. ALL PLUMBING VENTS WITHIN A 15'-0" RADIUS OF ANY ROOF TOP UNIT OR FRESH AIR INTAKE SHALL BE OFFSET TO CLEAR OUTSIDE THE RADIUS.
13. PROTECT COPPER PIPING AGAINST CONTACT WITH MASONRY OR DISSIMILAR METALS. SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED.
14. PROVIDE SHUT-OFF VALVES AND BACKFLOW PREVENTION DEVICES AT ALL CONNECTIONS TO NON-POTABLE WATER SYSTEMS AND EQUIPMENT.
15. INSTALL CLEANOUTS AT THE BASE OF ALL DRAINAGE STACKS.
16. PROVIDE UL LISTED THROUGH FIRE STOPPING ASSEMBLIES FOR EACH PENETRATION OF FIRE-RATED WALLS AND ASSEMBLIES. SEE ARCHITECTURAL SHEETS FOR THROUGH FIRE STOPPING ASSEMBLIES.
17. PROVIDE DISCONNECT SWITCHES (GFCI) FOR ALL ELECTRICAL COMPONENTS REQUIRED FOR OPERATION OF THE MECHANICAL EQUIPMENT AS DESCRIBED ON DRAWINGS AND THE SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM THE POWER SOURCE TO THE DISCONNECT SWITCH, FROM THE DISCONNECT SWITCH TO THE STARTER OR VFD, AND FROM THE STARTER OR VFD TO THE FINAL MECHANICAL EQUIPMENT CONNECTION.
18. COORDINATE PIPING WITH ELECTRICAL PANELS AND EQUIPMENT. RUN PLUMBING PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHES OR SIMILAR ELECTRICAL EQUIPMENT, COMMUNICATION (IT) ROOMS, STAIR WELLS, IN ELEVATOR SHAFTS OR ELEVATOR EQUIPMENT ROOMS.
19. VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT, PIPING, FIXTURES, ETC.
20. COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR PIPING SERVICE CONNECTIONS TO EXISTING SYSTEMS WHERE POSSIBLE. MINIMUM DOWNTIME TO A SINGLE 4 HOUR PERIOD, BETWEEN 12:00 MIDNIGHT AND 6:00 AM.
21. CONDITIONS RESULTING FROM A FAILURE TO ACCOMPLISH A PRE-BID SITE VISIT WILL NOT BE CONSIDERED GROUNDS FOR A CHANGE.
22. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE LISTING REQUIREMENTS. ALL PLUMBING EQUIPMENT, CONDENSATE DRAINAGE, SANITARY, RAINWATER, AND WATER PIPING MUST BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS AND THE LOCAL A-HJ REQUIREMENTS.
23. TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
24. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURES TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS. ACCESS PANELS IN CEILINGS AND WALLS MUST BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS VALVES, ETC. COORDINATE EXACT LOCATIONS OF ALL ACCESS PANELS WITH ARCHITECT DURING SHOP DRAWING PROCESS.
25. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1' OF ACCESS PANELS, CEILING TILES, OR OTHER POINTS OF ACCESS.
26. PROVIDE SHOCK ABSORBERS SIZED PER PDI SPECIFICATIONS ON ALL DOMESTIC WATER LINES SERVING FLUSH VALVE FIXTURES AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES.
27. ALL COMPONENTS OF DOMESTIC WATER SYSTEM MUST COMPLY WITH ANS/ISF 61, NSF 372 AND NSF-61G LEAD FREE REQUIREMENTS.
28. FOR ALL PIPE BELOW GRADE, METALLIC LINES MUST BE IDENTIFIED WITH DURABLE PRINTED PLASTIC WARNING TAPES, MINIMUM 3" WIDE, WITH LETTERING TO IDENTIFY BURIED LINE TYPE BELOW.
29. FOR ALL PIPE BELOW GRADE, NON-METALLIC LINES, OTHER THAN GAS LINES, MUST BE IDENTIFIED BY DETECTABLE WARNING TAPE, MINIMUM 2" WIDE, WITH LETTERING TO IDENTIFY BURIED LINE TYPE BELOW.
30. FOR ALL PIPE BELOW GRADE, 2018 NCIPC 306.2.4 TRACER WIRE. EFFECTIVE MARCH 1, 2017. FOR PLASTIC SEWER PIPING, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR MUST BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS MUST BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE MUST TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND THE BUILDING SEWER. THE TRACER WIRE SIZE MUST BE NOT LESS THAN 14 AWG AND THE INSULATION TYPE MUST BE LISTED FOR DIRECT BURIAL.

LEGEND

GENERAL

Table with 2 columns: Symbol, Description. Includes construction note identification, waste riser designation, water riser designation, storm riser designation, and various pipe types and connections.

VALVES AND ACCESSORIES

Table with 2 columns: Symbol, Description. Includes backflow preventer, ball valve, butterfly valve, capped pipe, check valve, concentric reducer, direction of flow, eccentric reducer, flanged connection, flexible connection, pressure/temperature test plug, pipe anchor, pipe guide, pipe sleeve, pressure regulating valve, pressure relief valve, pressure gauge with gauge cock, pump, strainer, strainer w/blow down valve, thermometer, and vacuum breaker.

ABBREVIATIONS

Table with 2 columns: Abbreviation, Full Name. Includes AD (Access Door), ADA (Americans with Disability Act), AFF (Above Finished Floor), AFG (Above Finished Grade), AHJ (Authority Having Jurisdiction), AP (Access Panel), ARCH (Architectural), BFP (Backflow Preventer), CO (Cleanout), CP (Circulation Pump), CTS (Copper Tube Size), DCWS (Domestic Cold Water Supply), DHWR (Domestic Hot Water Return), DHWS (Domestic Hot Water Supply), DIA (Diameter), DSN (Downspout Nozzle), DWG (Drawing), ET (Expansion Tank), ETR (Existing to Remain), EX (Existing), FCO (Floor Cleanout), FD (Floor Drain), FF (Finished Floor), FS (Floor Sink), GA (Gauge), GALV (Galvanized), GCO (Grade Cleanout), GFCI (Government Furnished Contractor Installed), GPH (Gallons per Hour), GPM (Gallons per Minute), HB (Hose Bibb), HVAC (Heating Venting and Air Conditioning), MSC (Miscellaneous), MV (Mixing Valve), NFDH (Non Freeze Deck Hydrant), NFWH (Non Freeze Wall Hydrant), NIC (Not in Contract), OD (Overflow Drain), PRV (Pressure Reducing Valve), PVC (Polyvinyl Chloride), RSJ (Run thru Joists), RD (Roof Drain), RL (Rainleader), RPZ (Reduced Pressure Zone Backflow Preventer), SS (Stainless Steel), TD (Trench Drain), TYP (Typical), UN (Unless Otherwise Noted), VTR (Vent Through Roof), WCO (Wall Cleanout), WH (Water Heater), WHA (Water Hammer Arrestor and Size), WM (Water Meter), WSV (Wash Stack Vent), and WV (Water Valve Box).

Order Plans @ WWW.LDILLING.COM