

GENERAL UTILITY NOTES:

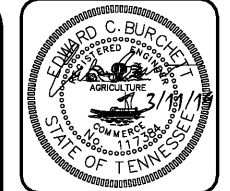
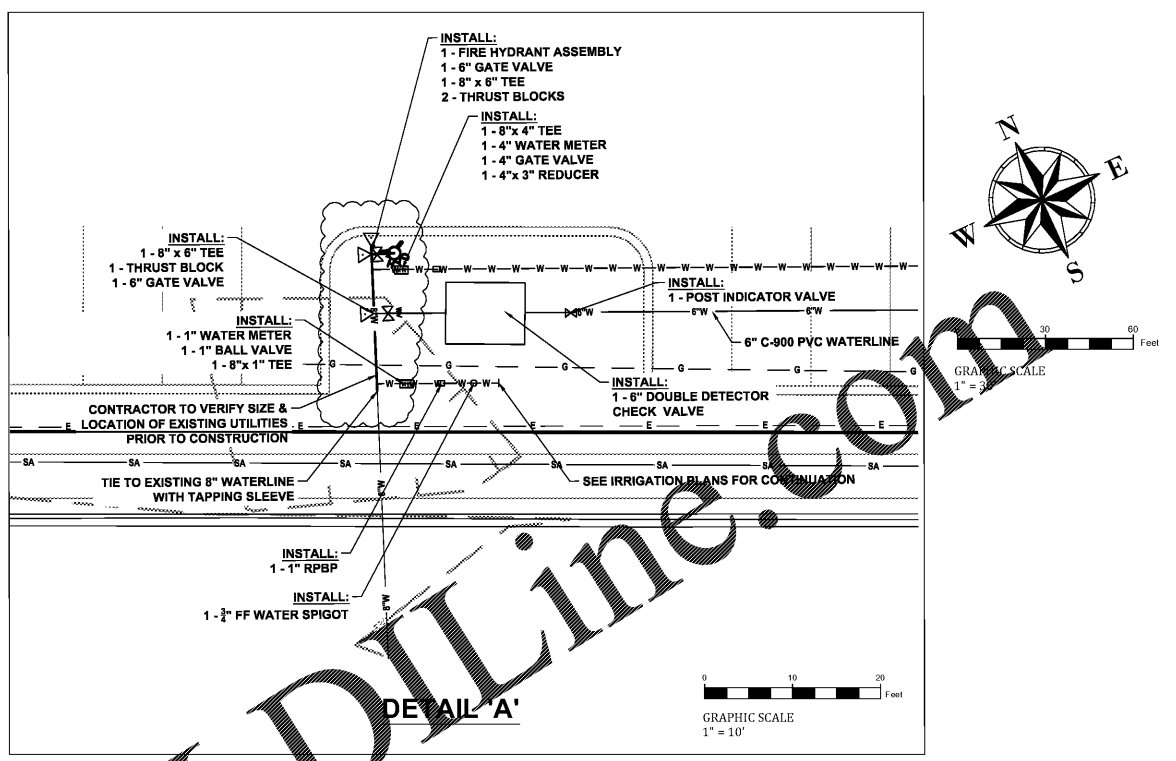
- 1. ALL WATER AND SANITARY SEWER CONSTRUCTION IS TO BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CLARKSVILLE GAS AND WATER DEPARTMENT OR THE APPROPRIATE UTILITY DISTRICT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CITY ENGINEER'S OFFICE OR THE APPROPRIATE UTILITY DISTRICT.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CLARKSVILLE DEPARTMENT OF ELECTRICITY (CDE) OR CUMBERLAND ELECTRIC MEMBERSHIP COOPERATIVE (CEMC) AND BELL SOUTH DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET ALL APPROPRIATE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- 4. MECHANICAL RESTRAINTS, OR EQUAL SHALL BE USED ON ALL FITTINGS AND VALVES.
- 5. ANY VALVES, MANHOLES, SPRINKLER HEADS OR OTHER SUCH APPURTENANCES LOCATED WITHIN THE CONSTRUCTION SITE SHALL BE ADJUSTED TO MATCH FINISHED GRADES.
- 6. BEDDING MATERIAL FOR PVC SEWER PIPE SHALL CONSIST OF A 6-INCH ENVELOPE OF AASHTO M43 #67 CRUSHED STONE ON ALL SIDES OF THE PIPE. PIPE BEDDING SHALL BE THOROUGHLY AND COMPLETELY TAMPED BEFORE BACKFILLING.
- 7. ALL SANITARY SEWER MANHOLE TO PIPE CONNECTIONS SHALL BE MADE WITH A RUBBER BOOT, CAST OR GROUTED INTO THE MANHOLE. ANY MANHOLE SUBJECT TO INUNDATION SHALL RECEIVE A WATER TIGHT COVER.
- 8. SHOULD SOLID ROCK BE ENCOUNTERED IN A SEWER TRENCH, IT SHALL BE REMOVED TO A DEPTH OF AT LEAST SIX (6) INCHES BELOW THE FINISHED PIPELINE.
- 9. IN GENERAL, CRUSHED STONE BEDDING SHALL NOT BE REQUIRED FOR WATER LINE INSTALLATIONS. HOWEVER, WHERE UNSUITABLE MATERIAL OR SOLID ROCK IS ENCOUNTERED, BEDDING SHALL CONSIST OF A 6-INCH ENVELOPE OF AASHTO M43 #67 CRUSHED STONE ON ALL SIDES OF THE PIPE.
- 10. GENERALLY, TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. IN NO CASE SHALL A TRENCH BE LEFT OPEN FOR MORE THAN SEVEN (7) DAYS. A. BACKFILL UNDER PAVEMENT: THE CONTRACTOR SHALL PLACE AND COMPACT AASHTO M43 #67. IN LIFTS NOT EXCEEDING 6 INCHES FROM THE TOP OF THE BEDDING ENVELOPE TO THE BASE OF THE PAVEMENT. B. BACKFILL IN UNIMPROVED AREAS: THE CONTRACTOR SHALL PLACE AND COMPACT MATERIAL CONSISTENT WITH EITHER FINE, LOOSE EARTH OR GRANULAR MATERIAL THAT IS FREE FROM CLODS, VEGETABLE MATTER, DEBRIS, STONE, AND/OR OTHER OBJECTIONABLE MATERIALS IN 12 INCH LIFTS COMPACTED TO 95% STANDARD PROCTOR (ASTM D698).
- 11. WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWER FACILITIES A MINIMUM OF 10 FEET, MEASURED EDGE TO EDGE. WHEN CONDITIONS EXIST THAT PREVENT A HORIZONTAL SEPARATION OF 10 FEET, CLOSER INSTALLATIONS MAY BE MADE IF THE BOTTOM OF THE WATER MAIN IS 18 INCHES ABOVE THE TOP OF THE SANITARY SEWER FACILITY.
- 12. ALL WATERLINE PIPING PAST THE "POINT OF SERVICE" INCLUDING UNDERGROUND USED FOR SPRINKLER OR STANDPIPE SYSTEM MUST BE INSTALLED BY A TENNESSEE REGISTERED SPRINKLER CONTRACTOR. [NFA RULE 0780-2-7-08]
- 13. PIPE TRENCHES SHALL NOT BE EXCAVATED MORE THAN 200 FEET AHEAD OF PIPE INSTALLATION.
- 14. BEDDING MATERIAL FOR RIGID SEWER PIPE (RCP, DUCTILE IRON, CAST IRON) SHALL CONSIST OF A 6-INCH ENVELOPE OF AASHTO M43 #67 CRUSHED STONE ON ALL SIDES OF THE PIPE. PIPE BEDDING SHALL BE THOROUGHLY AND COMPLETELY TAMPED BEFORE BACKFILLING.
- 15. ALL SANITARY SEWER CLEANOUTS IN CONCRETE OR PAVEMENT AREAS SHALL BE IN A MD-9 LITTLE RHINO METER VALVE BOX, ITEM NUMBER 55-L-SV, OR APPROVED EQUIVALENT.
- 16. MECHANICAL RESTRAINT SHALL BE USED ON ALL FITTINGS AND VALVES.
- 17. ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND AS PER ORDINANCE 116-1006-07.
- 18. CONTRACTOR TO ENSURE THAT ALL GRADING IS TO SUBGRADE PRIOR TO INSTALLATION OF UTILITY LINES.
- 19. ANY PVC GRAVITY SEWER PIPE INSTALLED AT DEPTHS GREATER THAN 12 FEET SHALL CONFORM TO SDR 26 OR PS 115.
- 20. ALL WATER MAIN INSTALLATION SHALL CONFORM TO AWWA C605 FOR PVC AND AWWA C600 FOR DUCTILE IRON PIPE, ALL MATERIAL SHALL BE ASTM D02241 OR AWWA C900 FOR PVC AND ANSI A21.51 (AWWA C151) FOR DUCTILE IRON PIPE.
- 21. ALL SANITARY SEWER MAIN PIPE SHALL MEET OR EXCEED ASTM D3034-SDR35 STANDARDS AND BE GREEN IN COLOR.
- 22. CONTRACTOR TO VERIFY DEPTH, LOCATION, AND SIZE OF EXISTING UTILITIES PRIOR TO ORDERING MATERIALS.
- 23. WATER SERVICE PIPE MATERIAL MAY BE MÜNICHPEX CROSS LINKED POLYETHYLENE (PEX) BY REHAU OR ALTERNATIVELY MAY BE TYPE K SOFT COPPER.
- 24. TRACER WIRE SHALL BE INSTALLED ALONG ALL WATER MAIN, WATER SERVICES, AND SEWER FORCE MAIN AND FORCE MAIN SERVICES. TRACER WIRE SHALL BE COPPERHEAD 1230-HS, 12 AWG COPPER CLAD STEEL TRACER WIRE WITH 30 MIL HDPE COATING, NO SUBSTITUTIONS ALLOWED. CONNECTORS AT SERVICE CONNECTIONS AND TEES SHALL BE DRYCON DIRECT BURY LOG AQUA BY KING INNOVATION AND AT THE MAIN LINE SPLICES SHALL BE DRYCON KING 6 BLUE BY KING INNOVATION, NO SUBSTITUTIONS ALLOWED. TRACER WIRE SHALL EXTEND AT LEAST 5 FEET BEYOND WATER SERVICE STUB TERMINATIONS. A PIECE OF PVC PIPE SHALL BE BURIED VERTICALLY AGAINST THE 4" x 4" MARKER POST EXTENDING ABOUT 2" ABOVE GROUND LEVEL. THE TRACER WIRE SHALL BE FED THROUGH THE PVC PIPE WITH END OF WIRE ABOUT 2" ABOVE THE END OF THE PIPE AND THE REMAINDER COILED AND BURIED BENEATH IT. A PERFORMANCE TEST WILL BE PERFORMED ON THE COMPACTED TRACER WIRE SYSTEM TO ENSURE THE ENTIRE SYSTEM IS TRACKABLE. ANY PART OF THE SYSTEM THAT IS NOT TRACKABLE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR UNTIL IT IS TRACKABLE PRIOR TO FINAL ACCEPTANCE OF UTILITIES.
- 25. CLARKSVILLE GAS AND WATER DEPARTMENT TO INSTALL GAS LINE FROM MAIN LINE TO THE METER AND SHALL INSTALL METER.

LOCAL UTILITIES

CITY STREETS: CLARKSVILLE STREET DEPARTMENT PH: 931-645-7464 CONTACT: DAVID SHEPARD (DIRECTOR)  
COUNTY ROADS: MONTGOMERY COUNTY HIGHWAY DEPARTMENT PH: 931-648-5740 CONTACT: MIKE FROST (HIGHWAY COMMISSIONER)  
STATE ROADS AND STREETS: TENNESSEE DEPARTMENT OF TRANSPORTATION PH: 931-648-5570  
CITY BUILDING AND CODES DEPARTMENT: CLARKSVILLE BUILDING CODES DEPARTMENT PH: 931-645-7426 CONTACT: MIKE BAKER  
PLANNING COMMISSION: MONTGOMERY COUNTY REGIONAL PLANNING COMMISSION PH: 931-645-7448 CONTACT: JEFFREY TYNDALL (DIRECTOR)

WATER AND SANITARY SEWER: CLARKSVILLE GAS AND WATER DEPARTMENT PH: 931-645-7418 CONTACT: PAT CHESNEY  
ELECTRICITY: (INSIDE CITY LIMITS) CLARKSVILLE DEPARTMENT OF ELECTRICITY PH: 931-648-8151 CONTACT: TERRY RESHA  
ELECTRICITY: (OUTSIDE CITY LIMITS) CUMBERLAND ELECTRIC MEMBERSHIP COOPERATIVE PH: 931-645-2841 CONTACT: KENNY DAVIS  
NATURAL GAS: CLARKSVILLE GAS AND WATER DEPARTMENT PH: 931-645-7422 CONTACT: MARK RIGGINS  
CITY FIRE DEPT: CLARKSVILLE FIRE RESCUE PH: 931-645-7462 CONTACT: FIRE MARSHALL RICKY CUMBERLAND

SPECIAL NOTE:  
1. CONTRACTOR TO COORDINATE WITH MPE FOR EXACT SIZE AND LOCATION OF UTILITY SERVICES.



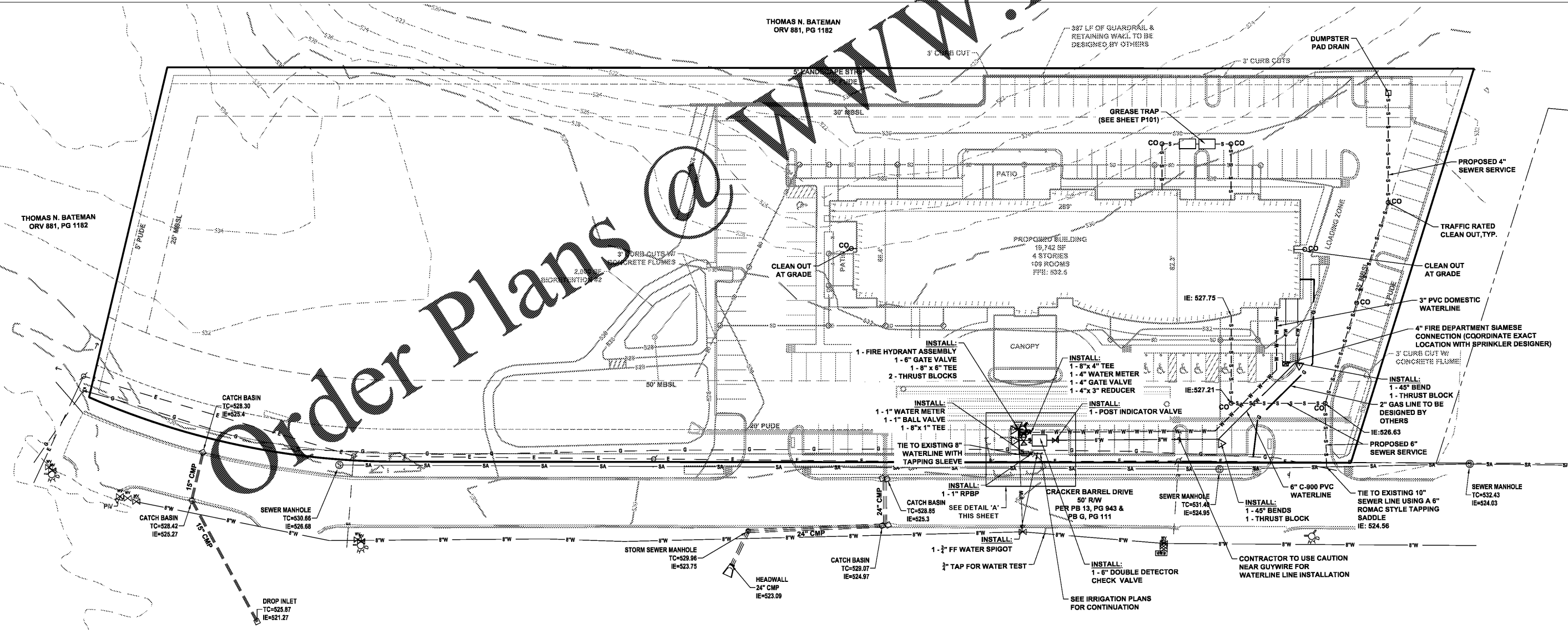
DATE	COMMENTS
12/5/18	CHANGED PARKING LAYOUT
1/07/19	REMOVED ONE 90° BEND, MOVED FIRE HYDRANT, ADDED SIDEWALK ALONG BARREL DRIVE
3/11/19	NEW FLOOR PLAN, ALL UTILITIES EXITING BUILDING MOVED, CHANGED/ADDED ROOF DRAINS

**HOLIDAY INN**  
**UTILITY LAYOUT PLAN**  
215 CRACKER BARREL DR., CLARKSVILLE  
MONTGOMERY COUNTY, TENNESSEE  
March 11, 2019

**MCKAY-BURCHETT & COMPANY ENGINEERS**  
1545 Madison Street  
Clarksville, TN 37040  
Ph # 931-245-3095

DESIGNED BY: KCOOK  
CHECKED BY: C. BURCHETT  
DATE: 3/11/19

SHEET: C 3.00



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