

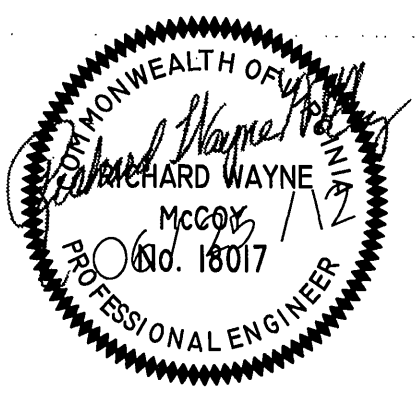
SITE UTILITY NOTES

1. THE SITE UTILITY PLAN IS FOR SANITARY SEWER AND WATER LINE CONSTRUCTION ONLY. DO NOT USE FOR GRADING OR STORM SEWER CONSTRUCTION.
2. ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES AND ARE APPROXIMATE.
3. ALL DOMESTIC WATER AND SANITARY SEWER STUBS TO BE TERMINATED 5 FEET OUTSIDE OF THE BUILDING UNLESS OTHERWISE NOTED. THE END OF THESE SERVICE LINES SHALL BE TIGHTLY PLUGGED OR CAPPED AND MARKED UNTIL SUCH TIME AS CONNECTION IS MADE INSIDE BUILDING BY PLUMBING CONTRACTOR.
4. SITE UTILITY CONTRACTOR SHALL PROVIDE ALL THE MATERIALS AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE AND FITTINGS SHALL BE INSPECTED BY THE WATER DEPARTMENT INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING PRESSURE TESTING AND DISINFECTION OF LATERALS AND HIS SIGNATURE OF APPROVAL IS REQUIRED.
5. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY, AND THE CITY OF ROANOKE.
6. THE SITE UTILITY CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY AUTHORITIES FOR CONNECTION TO THE EXISTING MAINS AND PAY ALL APPLICABLE FEES.
7. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 42" ABOVE TOP OF PIPE.
8. CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM SEWER OR OTHER UTILITIES AT NO EXTRA COST.
9. BASED ON THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE, CLEANOUTS ARE REQUIRED AT A MAXIMUM SPACING OF 100 FEET ON UTILITY LEAD-INS TO BUILDING. CONTRACTOR TO PROVIDE A CLEANOUT WITHIN 5 FEET OF BUILDING AND AT ALL BENDS.
10. THE SITE UTILITY CONTRACTOR SHALL COOPERATE AND WORK WITH ALL OTHER CONTRACTORS ON THE SITE.
11. ALL MATERIALS SHALL BE U.L. LISTED AND APPROVED BY THE LOCAL UTILITY COMPANY UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
12. THE EXISTING UTILITY FACILITIES AND LOCATIONS SHOWN ON THE DRAWINGS ARE TAKEN FROM READILY AVAILABLE INFORMATION. THE ACTUAL LOCATIONS OF THE UTILITY FACILITIES MAY VARY SOMEWHAT FROM THE LOCATIONS SHOWN OR INDICATED ON THE DRAWINGS. THE SITE UTILITY CONTRACTOR SHALL CONTACT ALL AGENCIES WITH UTILITY FACILITIES IN THE VICINITY OF THE WORK AND SHALL LOCATE ALL UNDERGROUND FACILITIES BEFORE BEGINNING WORK. THE CONTRACTOR SHALL PROTECT ALL UTILITY FACILITIES AND REPAIR ANY DAMAGES RESULTING FROM THEIR WORK, IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND RELOCATE IF REQUIRED.
13. USE PVC C900, DR 25 WATER PIPE AND FITTINGS FOR WATER LINES OVER 4" DIA. USE PVC C800, DR 18 WATER PIPE AND FITTINGS FOR ALL FIRE LINES TO BUILDINGS. PIPES 4" DIA. AND SMALLER SHALL BE PVC C900, SDR26 OR SDR 21 PVC PIPE. JOINTS SHALL BE GASKETED TYPE JOINTS. SEWER PIPE SHALL BE PVC SDR 35.
14. UTILITY LEAD-INS TO BUILDING SHALL NOT BE INSTALLED UNTIL BUILDING PLANS ARE COMPLETED AND LOCATIONS ESTABLISHED ON THE ARCHITECTURAL PLUMBING PLANS. LEAD-INS MAY CHANGE 15' HORIZONTALLY AND 3' VERTICALLY PRIOR TO INSTALLATIONS AT NO ADDITIONAL COST TO THE OWNER. UTILITY CONTRACTOR SHALL REQUEST AND RECEIVE WRITTEN APPROVAL FROM PRIME CONTRACTOR PRIOR TO INSTALLATION OF LEAD-INS. LOCATION, SIZE, AND INVERT ELEVATIONS OF SANITARY SEWER SHALL BE COORDINATED WITH THE APPROVED PLUMBING PLANS FOR THE BUILDING.
15. BUILDING PLUMBING CONTRACTOR SHALL PAY ALL COST FOR WATER METERS, METER BOXES, VALVES, ETC. TO PROVIDE A COMPLETE JOB PER LOCAL AUTHORITY REQUIREMENTS.
16. THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, ELBOWS, AND BENDS OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. - EXISTING SOIL CONDITIONS.
17. SHOULD LATENT SOIL CONDITIONS NECESSITATE, CONTRACTOR SHALL INSTALL SPECIAL SUPPORTS FOR PIPING AND/OR APPURTENANCES INCLUDING THE REMOVAL OF UNSUITABLE MATERIAL AND BACKFILLING WITH GRAVEL OR OTHER MATERIAL. CONTRACTOR SHALL PERFORM ANY SUCH WORK AS DIRECTED BY THE CIVIL ENGINEER AND/OR SOILS ENGINEER AT NO COST TO OWNER.
18. CONTRACTOR TO COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED IN THESE PLANS (ELECTRIC, TELEPHONE, GAS, CABLE, ETC.) AND ALLOW FOR THEIR OPERATIONS AND CONSTRUCTION TO BE PREPARED.
22. SITE UTILITY CONTRACTOR TO COORD. WITH IRRIGATION CONTRACTOR TO PROVIDE POWER IN CONDUIT TO IRRIGATION CONTROLLER PER MANUFACTURERS RECOMMENDATIONS. VERIFY EXACT LOCATION OF CONTROLLER W/ OWNER PRIOR TO INSTALLATION.
20. THE SITE UTILITY CONTRACTOR SHALL COORDINATE AND PAY FOR ALL SANITARY SEWER CONNECTIONS. SANITARY SEWER CONNECTION FINAL TIE-IN TO THE EXISTING MANHOLE(S) SHALL NOT BE MADE UNTIL COMPLETION OF THE PROPOSED SYSTEM AND ALL MANHOLES HAVE BEEN BROUGHT ABOVE GROUND TO INSURE SEDIMENT DOES NOT ENTER SYSTEM. LINES SHALL BE PROPERLY CLEANED, IF NEEDED.
21. CONNECTIONS TO EXISTING WATER LINE MAY BE PERFORMED BY THE LOCAL UTILITY COMPANY. THE SITE UTILITY CONTRACTOR SHALL VERIFY REQUIREMENTS AND PAY ALL COSTS.
22. SITE UTILITY CONTRACTOR TO COORD. WITH ELECTRICAL CONTRACTOR TO PROVIDE POWER IN CONDUIT TO BACKFLOW PREVENTER ENCLOSURES.
23. SEE SHEET C-07 ADDITIONAL UTILITY DETAILS.

UTILITIES & GRADING LEGEND					
	EXISTING	PROPOSED		EXISTING	PROPOSED
RIGHT-OF-WAY/PROPERTY LINE	---	---	CLEANOUT	---	---
WATER LINE	W	W	FIRE HYDRANT	---	---
SANITARY SEWER	S	SS	WATER VALVE	---	---
SANITARY SEWER MANHOLE	MH	O	INDEX CONTOURS	---	---
UNDERDRAIN	---	UD	1' INTERVALS	---	---
UNDERGROUND POWER LINE	E	UGE	SPOT ELEVATION	---	---
UNDERGROUND TELEPHONE/DATA LINE	---	UGT	STORM SEWER	---	---
OVERHEAD ELECTRIC LINE	E	---	CATCH BASIN	---	---
NATURAL GAS LINE	G	GAS	LIGHT POLE (SEE SITE ELECTRICAL PLANS)	---	---

- WATER NOTES:
1. WWA WILL SUPPLY THE WATER METERS AND SEWER AND WATER TAPS FOR A FEE AND MUST BE SCHEDULED AT LEAST 48 HOURS IN ADVANCE. WATER SHUT OFFS WILL BE PERFORMED BY WWA AND REQUIRE AT LEAST 5 DAYS NOTICE.
 2. COORDINATE ALL INSPECTIONS THROUGH THE ENGINEERING COORDINATOR, MARK SINK 540-537-3460.

ALL UTILITIES, INCLUDING ELECTRICAL, SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 36.2-610 OF THE CITY CODE.



R. WAYNE MCCOY, P.E.
915 CREEKSIDE ROAD
CHATTANOOGA, TN 37406

THE HUTTON COMPANY
736 CHERRY STREET
CHATTANOOGA, TN 37402

FAMILY DOLLAR
any family dollar.
MELROSE AVENUE
ROANOKE, VA

REVISIONS		
1	BULLETIN #1	07/10/12
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SHEET NAME:
SITE UTILITIES PLAN

DATE: 05/30/12
DRAWN BY: BMB
CHECKED BY: RWM
PROJECT NO.: 12015
SHEET NUMBER:

C-05

