GENERAL NOTES

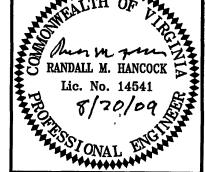
- 1. THE LOCATION OF EXISTING UTILITIES, INCLUDING UNDERGROUND UTILITIES, IS INDICATED ON THE DRAWINGS INSOFAR AS THEIR EXISTENCE AND LOCATION WERE KNOWN AT THE TIME OF PREPARATION OF THESE DRAWINGS. HOWEVER, NOTHING IN THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS A GUARANTEE THAT SUCH UTILITIES ARE IN THE LOCATION INDICATED OR THAT THEY ACTUALLY EXIST, OR THAT OTHER UTILITIES ARE NOT WITHIN THE AREA OF OPERATIONS. THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND DETERMINE ALL INVERTS PRIOR TO CONSTRUCTION TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS WITH OTHER UTILITIES. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINIA STATE WATER WORKS REGULATIONS, SECTION 12.05.03, AND THE VIRGINIA STATE SEWAGE COLLECTION AND TREATMENT REGULATIONS WHERE LINES CROSS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
- 2. THE CONTRACTOR SHALL HAVE A VALID MISS UTILITY TICKET PRIOR TO EXCAVATION. CONTACT MISS UTILITY AT 1-800-552-7001.
- 3. WATERLINES SHALL BE LAID TO LINES AND GRADES SHOWN ON THE DRAWINGS TO AVOID LOCAL HIGH POINTS AND LOW POINTS EXCEPT WHERE INDICATED.
- 4. HORIZONTAL AND VERTICAL DATUM IS VIRGINIA STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD 83.
- 5. ALL WORK SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE TECHNICAL SPECIFICATIONS. AN APPROVED SET OF PLANS, TECHNICAL SPECIFICATIONS, AND PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES. THE TECHNICAL SPECIFICATIONS INCLUDE THE APPLICABLE PORTIONS OF THE WESTERN VIRGINIA WATER AUTHORITY "WATER AND SEWER DESIGN & CONSTRUCTION STANDARDS".
- 6. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY) AVAILABLE AT WWW.WESTERNVAWATER.ORG OR BY CONTACTING THE AUTHORITY AT 540-853-5700. THE PROJECT SHALL ALSO COMPLY WITH THE GOVERNING JURISDICTION'S STANDARDS AND OTHER AGENCY STANDARDS (E.G., VDOT, DEQ, DCR, VDH, ETC.) WHERE APPLICABLE.
- 7. ALL CONNECTIONS TO EXISTING WATERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL PROVIDE FULL STAINLESS STEEL TAPPING SLEEVE(S) AND VALVE(S). THE CONTRACTOR SHALL EXCAVATE TO THE EXISTING WATERLINE, SHORE THE TRENCH PER OSHA REQUIREMENTS, CLEAN THE EXISTING WATERLINE, AND INSTALL THE TAPPING SLEEVE AND VALVE PRIOR TO THE AUTHORITY PERFORMING THE TAP. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S UTILITY LINE SERVICES DIVISION AT 540-853-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIRING THE CONNECTION.
- 8. THE CONTRACTOR SHALL PERFORM ALL MANHOLE CONNECTIONS. THE CORING AND BOOT INSTALLATION SHALL BE INSPECTED AND APPROVED BY AN AUTHORITY CONSTRUCTION INSPECTOR PRIOR TO ACTIVATING SEWER SERVICE. THE CONTRACTOR SHALL CONTACT THE AUTHORITY'S CONSTRUCTION INSPECTOR RESPONSIBLE FOR THE PROJECT AT LEAST ONE (1) DAY PRIOR TO INITIATING THE MANHOLE CONNECTION.
- 9. PRIOR TO CONSTRUCTION IN THE RIGHT-OF-WAY, ALL APPLICABLE PERMIT(S) FROM THE GOVERNING JURISDICTION AND/OR AGENCY MUST BE OBTAINED AND A COPY KEPT ON THE PROJECT SITE.
- 10. FOR PROJECTS REQUIRING TRAFFIC CONTROL IN THE CITY OF ROANOKE, NOTIFY MANAGER OF TRANSPORTATION, MARK JAMISON, AT 540-853-5471 AT LEAST TWO WEEKS IN ADVANCE OF REQUIRING TRAFFIC CONTROL. FOR A LANE CLOSURE PERMIT IN THE CITY OF ROANOKE, CONTACT THE TRAFFIC ENGINEER, GARY BOWMAN, AT 540-853-5834. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT MUTCD MANUAL AND THE VDOT WORK AREA PROTECTION MANUAL UNLESS OTHERWISE SPECIFIED BY THE CITY.
- 11. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN(S) TO THE CITY OF ROANOKE PEGOR TO CONSTRUCTION.
- 12. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S ENGINEERING COORDINATOR, CHUCK CLARK, AT 540-537-3243 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
- 13. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION.
- 14. CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT.
- 15. SITE IS LOCATED IN A RESIDENTIAL AREA AND EXISTING RESIDENCES ARE LOCATED IMMEDIATELY ADJACENT TO SITE. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MINIMIZE DISTURBANCES TO ADJACENT PROPERTIES, INCLUDING PREVENTION OF DUST/DEBRIS INTRUSION ONTO PROPERTIES.
- 16. CONTRACTOR SHALL PROTECT EXISTING TREES FROM DAMAGE, UNLESS OTHERWISE ALLOWED BY OWNER IN WRITING. NO TREES SHALL BE REMOVED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER.
- 17. CONTRACTOR SHALL PROVIDE THE AUTHORITY WITH A PLAN TO MAINTAIN WATER SERVICE TO ALL CUSTOMERS WITH MINIMUM DISRUPTION PRIOR TO START OF CONSTRUCTION. NOTIFICATION TO AFFECTED CUSTOMERS SHALL BE COORDINATED WITH AUTHORITY AND GIVEN 24 HOURS PRIOR TO DISRUPTION WHEN POSSIBLE.
- 18. THE "OWNER" IS THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY). THE TERMS "OWNER" AND "AUTHORITY" ARE USED INTERCHANGEABLY IN THESE CONTRACT DOCUMENTS.
- 19. THE USE OF TEMPORARY ABOVE GROUND LINES WILL BE ALLOWED TO FACILITATE INSTALLATION OF THE NEW LINES, THESE LINES SHALL BE PROTECTED DURING USE AND REMOVED WHEN NO LONGER NEEDED. COST OF ANY TEMPORARY LINES SHALL BE INCLUDED IN THE UNIT COST OF THE WATERLINE.
- 20. LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND FIELD ADJUSTMENTS TO PROPOSED WATERLINE SHALL BE MADE TO MAINTAIN PROPER CLEARANCES AND PROTECT OTHER UTILITIES. FIELD CHANGES SHALL BE APPROVED BY THE AUTHORITY'S ENGINEERING DIVISION PRIOR TO SUCH CONSTRUCTION. ALL WORK SHALL BE MAINTAINED WITHIN EXISTING STREET RIGHT OF WAY.
- 21. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM CITY OF ROANOKE AND DEPARTMENT OF CONSERVATION AND RECREATION.
- 22. PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH ROANOKE CITY STANDARDS.
- 23. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND SHALL MAINTAIN SAFE ACCESSIBILITY TO FIRE HYDRANTS AT ALL TIMES.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING ALL MANHOLES AFTER PAVING. MANHOLE RIMS SHALL BE INSTALLED TO GRADE AND FLUSH WITH THE FINAL PAVEMENT.
- 25. UNREPAIRED ROADWAYS OPENED TO TRAFFIC SHALL HAVE, AT A MINIMUM, COMPACTED AGGREGATE MATERIAL VDOT 21A OR 21B FLUSH WITH THE ADJACENT ROADWAY SURFACE AND SHALL BE INSPECTED AND REPAIRED ON A DAILY BASIS. SOME AREAS WILL REQUIRE A TEMPORARY PATCH UNTIL FINAL PAVING CAN BE COMPLETED.
- 26. THE CONTRACTOR SHALL NOT EXCAVATE MORE TRENCH LENGTH THAN CAN BE RESTORED WITHIN THE SAME WORK DAY. ALL TRENCHES SHALL BE BACKFILLED OR PLATED AT THE END OF EACH WORK DAY OR WHEN THE CONTRACTOR IS NOT ON SITE.
- 26. THE CONTRACTOR SHALL SUPPLY THE AUTHORITY WITH CORRECT AS—BUILT PLANS BEFORE SUBSTANTIAL COMPLETION WILL BE GRANTED.
- 27. WORK IN THE RIGHT-OF-WAY IS TO BE PERFORMED PER THE CITY OF ROANOKE RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS.
- 28. CONSTRUCTION CREWS MUST ALLOW FOR SWM TO SERVICE TRASH, RECYCLING, BULK, AND BRUSH ON THURSDAYS.

WATER METER INSTALLATION:

- 1. WATER SERVICE CONNECTIONS SHALL INCLUDE CONNECTION TO NEW WATER LINE, SERVICE LINE, AND NEW METER BOX ASSEMBLY. CONTRACTOR SHALL INSTALL NEW WATER SERVICES INCLUDING THE METER SETTER AND VAULT. THE AUTHORITY WILL INSTALL ALL NEW WATER METERS AND REMOVE ALL EXISTING WATER METERS. CONTRACTOR SHALL MAKE CONNECTION TO EXISTING SERVICE LINE ON CUSTOMER SIDE OF METER AFTER NEW WATER SYSTEM, INCLUDING SERVICE LINE, HAS BEEN TESTED, DISINFECTED, AND APPROVED FOR SERVICE. CONTRACTOR SHALL THEN DEMOLISH THE EXISTING WATER METER SETTER AND VAULT. THE WORK ALSO INCLUDES ASSOCIATED BACKFILL AND RESTORATION.
- 2. CONTRACTOR SHALL COORDINATE EXISTING METER REMOVAL AND NEW METER INSTALLATION DIRECTLY WITH THE AUTHORITY. CONTRACTOR SHALL PROVIDE AT LEAST THREE (3) BUSINESS DAYS ADVANCE NOTICE TO THE AUTHORITY PRIOR TO NEEDING METER INSTALLATIONS. CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITY TO PROVIDE A SERIES OF AT LEAST TEN (10) SERVICES THAT ARE READY TO RECEIVE NEW METERS BEFORE CONTACTING THE AUTHORITY FOR METER REPLACEMENT.

GENERAL LEGEND

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	*	CONIFEROUS TREE	N/A
	69	SHRUB	N/A
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_		EASEMENT 100 YEAR FLOOD ZONE	
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	⊚ (1)	SANITARY MANHOLE SANITARY STRUCTURE KEY	<u>o</u>
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	⊠ ①	TELEPHONE BOX TELEPHONE MANHOLE	⊠ ①
	٥	TELEPHONE PEDESTAL TELEPHONE POLE	<u> </u>
	-O- 	GAS LINE	
	口 口	GAS DRIP GAS METER	
	© O	GAS MANHOLE GAS VALVE	© ●



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GENERAL NOTES SHEET

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BY BOULEVARD WATERI

CITY OF BOANOKE, VIRGINIA

APPROVED OCT 15 2009

PER CITY OF ROANOKE

DESIGNED BY
RMH
DRAWN BY
SAK
CHECKED BY
TOM
SCALE
NO SCALE
DATE
JULY 29, 2009
PROJECT NUMBER

B09134B-02 T-2