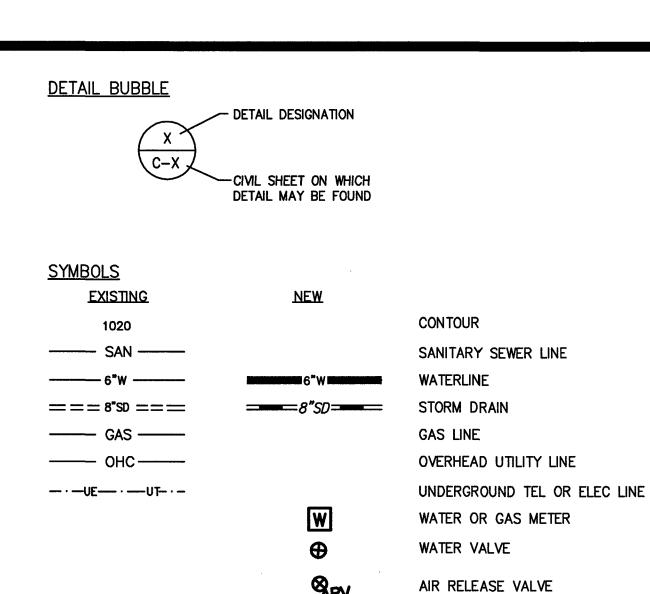
## STANDARD CITY OF ROANOKE CONSTRUCTION PROCEDURE REQUIREMENTS

NOTICE: ALL LANDOWNERS, DEVELOPERS AND CONTRACTORS

FAILURE TO COMPLY WITH THE CONSTRUCTION PROCEDURE REQUIREMENTS LISTED BELOW MAY RESULT IN THE COSTLY REMOVAL OF STRUCTURES, TIME DELAYS OR THE ISSUANCE OF A

#### CONSTRUCTION PROCEDURE REQUIREMENTS

- 1. RIGHT-OF-WAY EXCAVATION PERMIT -PRIOR TO THE COMMENCEMENT OF ANY DIGGING, ALTERATION OR CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY (STREETS, ALLEYS, PUBLIC EASEMENTS), A RIGHT-OF-WAY EXCAVATION PERMIT SHALL BE APPLIED FOR AND OBTAINED BY THE CONTRACTOR FROM THE CITY OF ROANOKE.
- 2. LAND DISTURBANCE PERMIT —AN APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR ANY BORROW/FILL SITES ASSOCIATED WITH THE PROJECT MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A LAND DISTURBANCE PERMIT.
- 3. PLANS AND PERMITS —A COPY OF THE PLANS AS APPROVED BY THE CITY (SIGNED BY THE PROPER CITY OFFICIALS) AND ALL PERMITS ISSUED BY THE CITY SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES OF ONGOING CONSTRUCTION.
- 4. LOCATION OF UTILITIES —THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
- 5. CONSTRUCTION ENTRANCE —THE CONTRACTOR SHALL INSTALL AN ADEQUATE CONSTRUCTION ENTRANCE FOR ALL CONSTRUCTION RELATED EGRESS FROM THE SITE. SIZE AND COMPOSITION OF CONSTRUCTION ENTRANCE SHALL BE AS SHOWN ON THE PLANS.
- 6. STREETS TO REMAIN CLEAN —IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE PUBLIC STREET ADJACENT TO THE CONSTRUCTION ENTRANCE REMAINS FREE OF MUD, DIRT, DUST, AND/OR ANY TYPE OF CONSTRUCTION MATERIALS OR LITTER AT ALL TIMES.
- 7. BARRICADES/DITCHES —THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXCAVATED DITCHES AND SHALL FURNISH AND ENSURE THAT ALL BARRICADES PROPER AND NECESSARY FOR THE SAFETY OF THE PUBLIC ARE IN PLACE.
- 8. SEWER AND PAVEMENT REPLACEMENT —CONSTRUCTION OF SANITARY SEWERS AND THE REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH APPROVED STANDARDS AND SPECIFICATIONS OF THE CITY OF ROANOKE AND THE WESTERN VIRGINIA WATER AUTHORITY.
- 9. APPROVED PLANS/CONSTRUCTION CHANGES —ANY CHANGE OR VARIATION FROM CONSTRUCTION DESIGN AS SHOWN ON THE OFFICIALLY APPROVED PLANS SHALL BE APPROVED BY THE EROSION AND SEDIMENT CONTROL AGENT PRIOR TO SAID CHANGES OR VARIATION IN CONSTRUCTION BEING MADE.



BLOW-OFF ASSEMBLY

DROP INLET (CURB OR GRATE)

UTILITY POLE, GUY & ANCHOR

GAS VALVE

MANHOLE

CLEANOUT

FENCE

FIRE HYDRANT

PROPERTY LINE

BENCHMARK

TREE LINE

BUILDING BLOCK BENCHMARK BOTTOM OF WALL CINDER BLOCK CURB & GUTTER CORRUGATED METAL PIPE CONCRETE CORNER **DOUBLE** DEFL DEFLECTION DROP INLET DIAMETER SS DRAINAGE EASEMENT EAST BOUND LINE STA EDGE OF GRAVEL STD **EDGE OF PAVEMENT** STO **ELECTRIC ELEV ELEVATION ENTR ENTRANCE ENDWALL EXISTING** FDN **FOUNDATION** TEL FINISHED FLOOR TRANS FINISH GRADE HIGH POINT INVERT IRON PIN MINIMUM BUILDING LINE MANHOLE MINIMUM

ARROW HEAD TOP OF

FIRE HYDRANT

**APPROXIMATE** 

BOTTOM OF CURB

ASPHALT

**BITUMINOUS** 

**ABBREVIATIONS** 

PUBLIC UTILITY EASEMENT PAVEMENT RADIUS RIGHT OF WAY REQUIRED RAILROAD REAR YARD SETBACK SANITARY SOUTH BOUND LANE STORM DRAIN STORM DRAIN MANHOLE SECTION SLOPE EASEMENT SANITARY SEWER SANITARY SEWER MANHOLE STATION STANDARD STORAGE STORMWATER POLLUTION PREVENTION PLAN SIDE YARD SETBACK TEMPORARY BENCHMARK TOP OF CURB TELEPHONE TRANSFORMER TOP OF WALL TYPICAL VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK VIRGINIA DEPARTMENT OF TRANSPORTATION VERTICAL WEST BOUND LANE

MONUMENT

PROPOSED

NORFOLK SOUTHERN

NORTH BOUND LANE

N-S

NBL

**PVMT** 

SHEET # TITLE

C-1 CIVIL TITLE SHEET

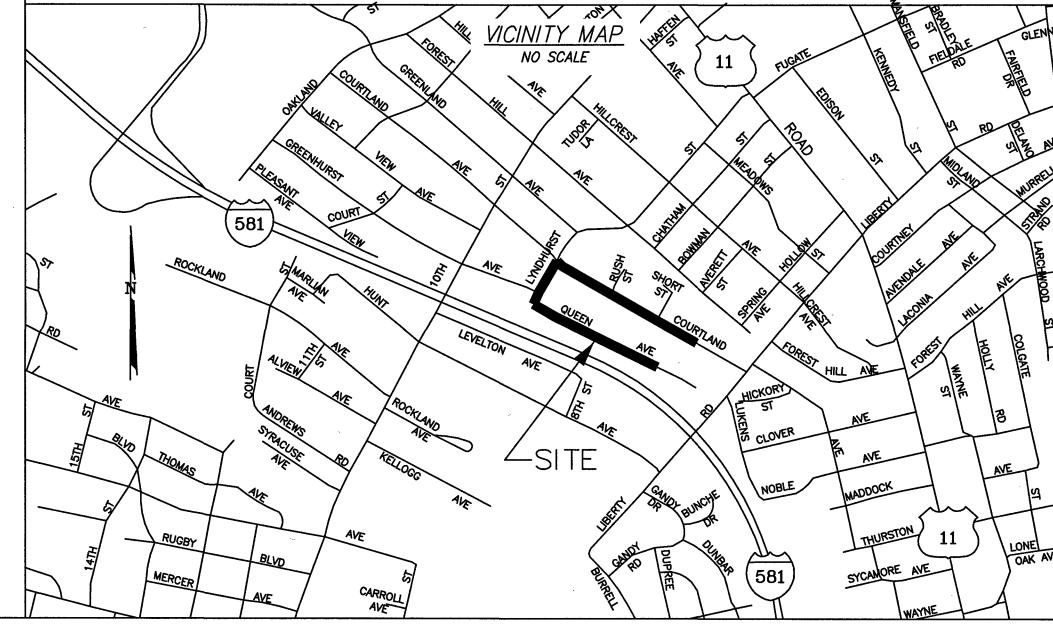
C-2 VIRGINIA E.S.C. NOTES & DETAILS

C-3 THROUGH C-6 EROSION AND SEDIMENT CONTROL PLAN

C-7 THROUGH C-16 UTILITY PLAN

C-17 AND C-18 WESTERN VIRGINIA REGIONAL DETAILS

ANY VARIATION FROM APPROVED PLANS MUST BE APPROVED BY THE CITY OF ROANOKE



CITY OF ROANOKE APPROVALS

Permit #:

#### WESTERN VIRGINIA WATER AUTHORITY GENERAL NOTES:

- 1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS AND OTHER AGENCY STANDARDS (E.G., VDOT, DEQ, DCR, VDH, ETC.) WHERE APPLICABLE.
- 2. WHILE NOT REQUIRED ON EVERY WVWA PROJECTS, WATER SERVICE AND METER REPLACEMENT SHOULD BE DISCUSSED PRIOR TO CONSTRUCTION, THE AUTHORITY WILL INSTALL ALL NEW WATER SERVICES INCLUDING THE METER SETTER AND BOX. CONTRACTOR SHALL CONFIRM AND VERIFY THE EXISTING METER SIZE AND REMOVE ALL EXISTING WATER METER SETTER AND BOX. THE CONTRACTOR SHALL DEMOLISH THE EXISTING METER REPLACEMENT BY THE AUTHORITY, THE CONTRACTOR SHALL COORDINATE EXISTING METER REMOVAL AND NEW METER INSTALLATION DIRECTLY WITH THE AUTHORITY. THE CONTRACTOR SHALL PROVIDE AT LEAST THREE (3) BUSINESS DAYS ADVANCE NOTICE TO THE AUTHORITY FOR WATER METER REPLACEMENT.
- 3. ALL CONNECTIONS TO EXISTING WATERLINES SHALL BE PERFORMED BY THE WVWA. 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 TAPPING SLEEVE(S) AND VALVE(S). THE CONTRACTOR SHALL NOTIFY THE WVWA INSPECTOR AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIREMENTS, CLEAN THE CONNECTION.
- 4. ALL CONNECTIONS TO EXISTING SANITARY SEWERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL EXCAVATE TO THE AUTHORITY PERFORMING THE TAP. THE CONTRACTOR SHALL MOTIFY THE WVWA INSPECTOR AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIRING THE CONNECTION.
- 5. THE CONTRACTOR SHALL PERFORM ALL MANHOLE CONNECTIONS. THE CORING AND BOOT INSTALLATION SHALL BE INSPECTED AND APPROVED BY AN AUTHORITY'S CONSTRUCTION INSPECTOR RESPONSIBLE FOR THE PROJECT AT LEAST ONE (1) DAY PRIOR TO INITIATING THE MANHOLE CONNECTION.
- 6. 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.

——O C.O.

- 7. FOR PROJECTS REQUIRING TRAFFIC CONTROL IN THE CITY OF ROANDKE, 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 ROANDKE, CONTACT THE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT MUTCD MANUAL AND THE VOOT WORK AREA PROTECTION MANUAL UNLESS OTHERWISE SPECIFIED BY THE CITY.
- 8. THE CONTRACTOR SHALL NOTIFY THE WVWA ENGINEERING COORDINATOR, MARK SINK, AT 540-537-3460 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
- 9. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION
- 10. THE CONTRACTOR SHALL HAVE A VALID MISS UTILITY TICKET PRIOR TO EXCAVATION, CONTACT MISS UTILITY AT 1-800-552-7001.
- 11. ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN THEIR EXACT LOCATION. CONTRACTOR SHALL LOCATE ALL UTILITIES. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINIA STATE WATER WORKS REGULATIONS, SECTION 12VAC5-590-1150, AND THE VIRGINIA STATE SECTION 12VAC5-590-1150, AND THE VIRGINIA STATE SECTION AND TREATMENT REGULATIONS WHERE LINES CROSS.
- 12. AN APPROVED SET OF PLANS AND PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- 13. CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT.
- 14. THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL BE RESPONSIBLE TO IMPLEMENT ALL EROSION & SEDIMENT CONTROLS REQUIRED. ALL EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION. THE WVWA MAY REQUIRE CHANGES TO AN APPROVED PLAN IN THE FOLLOWING CASES WHERE INSPECTION HAS REVEALED THAT THE PLAN IS INADEQUATE TO SATISFY APPLICABLE REGULATIONS.
- 15. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING ALL VEHICLES AND EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE STREETS ARE KEPT IN A CLEAN, MUD- AND DUST-FREE CONDITION AT ALL TIMES.
- 16. FIELD CHANGES SHALL BE APPROVED BY THE AUTHORITY'S ENGINEERING DIVISION PRIOR TO SUCH CONSTRUCTION. NO ADDITIONAL PAYMENTS SHALL BE MADE TO CONTRACTOR FOR WORK PERFORMED WITHOUT PRIOR APPROVAL FROM AUTHORITY'S PROJECT MANAGER.
- 17. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND SHALL MAINTAIN SAFE ACCESSIBILITY TO FIRE HYDRANTS AT ALL TIMES.
- 18. 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.
- 19. UNREPAIRED ROADWAYS OPENED TO TRAFFIC SHALL HAVE, AT A MINIMUM, COMPACTED AGGREGATE MATERIAL VOOT 21A OR 21B FLUSH WITH THE ADJACENT ROADWAY SURFACE AND SHALL BE INSPECTED AND REPAIRED ON A DAILY BASIS. SOME AREAS MAY REQUIRE A TEMPORARY PATCH UNTIL FINAL PAVING CAN BE COMPLETED.
- 20. 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.
- 21. THE CONTRACTOR SHALL SUPPLY THE AUTHORITY WITH CORRECT AS-BUILT PLANS BEFORE SUBSTANTIAL COMPLETION WILL BE GRANTED.
- 22. HORIZONTAL & VERTICAL BENDS SHOWN IN THE PLAN ARE APPROXIMATE, CONTRACTOR TO BE AWARE THAT ALL HORIZONTAL AND/OR VERTICAL BEND FITTINGS MAY NOT BE SHOWN IN THE PLANS.
- 23. ANY PROJECTS WITHIN VOOT JURISDICTION WILL REQUIRE COMPACTION TESTS EVERY 500 LINEAR FEET WHERE PAVEMENT (ROADWAY) IS CUT AND REPLACED.

# \*CWA

### CALDWELL WHITE ASSOCIATES

ENGINEERS / SURVEYORS / PLANNERS

4203 MELROSE AVENUE, N.W. P.O. BOX 6260
ROANOKE, VIRGINIA 24017-0260

Telephone:(540) 366-3400 Fax: (540) 366-8702
E-Mail: cwaroanoke@aol.com

DATE	AUGUST 14, 2017
PROJECT	17-0007
DESIGNED	CLH
DRAWN	CLH
CHECKED	FBC
FIELD BOO	OK WVWA #1
SCALE	1"=20'

THEALTH OF ALL	
FRANK B. CALDWELL, III LIC. NO. 9184	
BOWLES TOWAL ENGINEER	

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DESCRIPTION

DATE | BY

QUEEN AVENUE, N.W. - COURTLAND ROAD, N.W. WATERLINE REPLACEMENT PROJECT

TITLE SHEET

sheet

C-

OF 18

CHARLES CRUSH AS-BUILTS