905-LF ± WATER MAIN ON DOGWOOD LN

EASEMENTS REQUIRED

## **WESTERN VIRGINIA WATER AUTHORITY NOTES:**

- 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 (WWWA) 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.,
- 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.
- 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, HONG LIU, AT 540-853-2686. TRAFFIC AREA PROTECTION MANUAL UNLESS OTHERWISE SPECIFIED BY THE CITY.
- THE CONTRACTOR SHALL NOTIFY THE WWWA ENGINEERING COORDINATOR, MARK SINK, AT 540-537-3460 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION.
- ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN THEIR EXACT LOCATION. 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
- AN APPROVED SET OF PLANS AND PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES

WORKS REGULATIONS, SECTION 12VAC5-590-1150, AND THE VIRGINIA STATE SEWAGE COLLECTION AND TREATMENT

- EROSION & SEDIMENT CONTROLS REQUIRED. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION. THE WWWA MAY REQUIRE CHANGES TO AN APPROVED PLAN IN THE
- 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.
- 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 APPROVA FROM AUTHORITY'S PROJECT MANAGER.
- THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND
- 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. 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 MAY REQUIRE A TEMPORARY PATCH UNTIL FINAL PAVING CAN BE COMPLETED. 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
- 17. THE CONTRACTOR SHALL SUPPLY THE AUTHORITY WITH CORRECT AS-BUILT PLANS BEFORE SUBSTANTIAL
- 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.
- VIRGINIA DEPARTMENT OF TRANSPORTATION WILL REQUIRE COMPACTION TESTS EVERY 500 LINEAR FEET WHERE PAVEMENT (ROADWAY) IS CUT AND REPLACED.

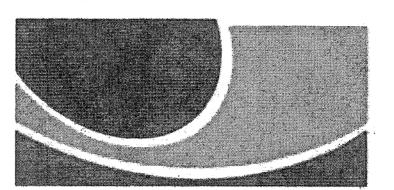
# **CONSTRUCTION NOTES:**

- ALL WATER FACILITIES SHALL BE INSTALLED ACCORDING TO THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS.LATEST EDITION, AND THE GENERAL EROSION AND SEDIMENT CONTROL PLAN ANNUAL STANDARDS & SPECIFICATIONS, LATEST EDITION.
- WORK OCCURRING IN ROANOKE CITY RIGHT OF WAY IS TO BE PERFORMED PER THE CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS.
- ANY AFFECTED DRIVEWAYS MUST BE REPAIRED/REPLACED WITH NO CHANGE IN LOCATION OR INCREASE IN WIDTH, SIZE; OTHERWISE, FURTHER REVIEW WILL BE REQUIRED.
- A MINIMUM COVER OF THREE (3) FEET IS REQUIRED OVER PROPOSED LINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING VALVE VAULTS AFTER PAVING
- AND ADJUSTMENT TO FINAL GRADE IF NECESSARY. ALL EXISTING UTILITIES MAY NOT BE SHOWN IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL COMPLY
- ALL TRENCHES IN EXISTING OR FUTURE HIGHWAY RIGHT-OF-WAYS SHALL BE COMPACTED ACCORDING TO

WITH THE (STATE WATER WORKS REGULATIONS, SECTION 12VAC5-590-1150, WHERE LINES CROSS.)

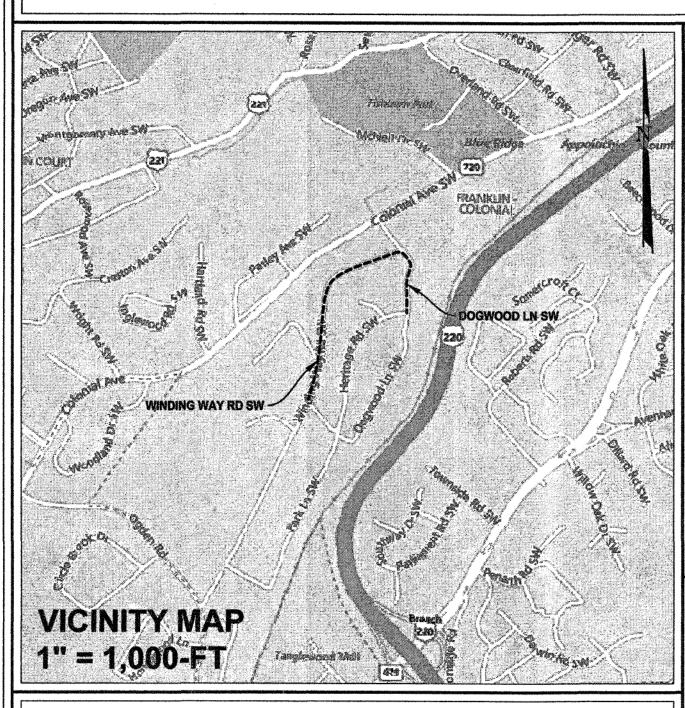
- VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARDS. LINES SHALL BE STAKED PRIOR TO CONSTRUCTION.
- WATER MAIN SHALL BE MINIMUM CLASS 350 DUCTILE IRON IN ACCORDANCE TO AWWA C151 OR DR-14 PVC IN
- 0. DUCTILE IRON PIPE IN ACCORDANCE WITH THE WESTERN VIRGINIA WATER AUTHORITY DESIGN AND CONSTRUCTION STANDARDS SHALL BE REQUIRED FOR ALL PIPE WITH A WORKING PRESSURE EQUAL TO OR

# WINDING WAY RD & DOGWOOD LN WATER MAIN REPLACEMENT PLAN



# WESTERN VIRGINIA WATER AUTHORITY

# CITY OF ROANOKE, VIRGINIA **JUNE 17, 2020**



### PROJECT APPROVALS:

#### **CONTACT INFORMATION:**

SURVEYOR:

PARKER DESIGN GROUP, INC 2122 CAROLINA AVE. SW **ROANOKE, VA 24014** PHONE: (540) 387-1153 FAX: (540) 389-5767

OWNER/DEVELOPER WESTERN VIRGINIA WATER AUTHORITY **601 SOUTH JEFFERSON STREET, SUITE 300 ROANOKE, VA 24011** 

Miss Utility of Virginia 204 RIVERS BEND BOULEVARD



VIRGINIA LAW REQUIRES CONTRACTOR TO **CONTACT MISS UTILITY (811) IN ADVANCE OF** PLANNED WORK.

ADVANCE TIME PERIOD SHALL BE AT LEAST **48 HOURS** (www.missutilityofvirginia.com)

#### **SHEET INDEX:**

No.	TITLE
C0.0	COVER
C1.1	EXISTING CONDITIONS
C1.2	EXISTING CONDITIONS

- C1.3 EXISTING CONDITIONS C1.4 EXISTING CONDITIONS
- C1.5 EXISTING CONDITIONS C1.6 EXISTING CONDITIONS
- C1.7 EXISTING CONDITIONS
- C1.8 EXISTING CONDITIONS C1.9 EXISTING CONDITIONS
- C2.0 PLAN & PROFILE KEY SHEET
- C2.1 PLAN AND PROFILE STA 0+00 to STA 4+00 C2.2 PLAN AND PROFILE - STA 4+00 to STA 10+00
- C2.3 PLAN AND PROFILE STA 10+00 to STA 16+00 C2.4 PLAN AND PROFILE - STA 16+00 to STA 22+00
- C2.5 PLAN AND PROFILE STA 22+00 to STA 28+00 C2.6 PLAN AND PROFILE - STA 28+00 to STA 34+00
- C2.7 PLAN AND PROFILE STA 34+00 to STA 39+50 C2.8 PLAN AND PROFILE - STA 39+50 to STA 44+00
- C2.9 PLAN AND PROFILE STA 50+00 to STA 54+00
- C2.10 PLAN AND PROFILE STA 54+00 to STA 58+13
- C3.1 DETAILS
- C3.2 DETAILS

## **EROSION & SEDIMENT CONTROL NARRATIVE**

- THE PURPOSE OF THIS PROJECT IS TO REPLACE AN AGED WATER MAIN WITHIN THE ROANOKE CITY SERVICE AREA ALONG WINDING WAY ROAD AND DOGWOOD LANE. THE TOTAL ESTIMATED PROJECT 5.515-LF OF WATER MAIN WITHIN A 5-FOOT WIDE DISTURBANCE, SPECIFICALLY, 26.735-SF (0.61-AC) IS WITHIN THE EXISTING HARD SURFACE AND 1,200-SF (0.03 AC) IS OUTSIDE THE EXISTING HARD SURFACE.
- THE ENTIRETY OF THE PROPOSED WORK IS LOCATED WITHIN ROANOKE CITY RIGHTS OF WAY, AND SHALL STANDARDS, WESTERN VIRGINIA WATER AUTHORITY (WVWA) DESIGN & CONSTRUCTION STANDARDS, AND

#### FHE FOLLOWING STATE MINIMUM STANDARDS APPLY AND WILL BE MET AS FOLLOWS: (NON APPLICABLE STANDARDS ARE NOT LISTED)

- MS-1 ALL DISTURBED AREAS NOT BEING STABILIZED WITH PAVEMENT SHALL RECEIVE PERMANENT SOIL
- PAVEMENT, INCLUDING BUT NOT LIMITED TO THOSE AREAS DISTURBED TO INSTALL WATER METERS, FIRE
- NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME FOR INSTALLATION OF
  - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY
  - MINIMIZE EROSION AND PROMOTE STABILIZATION.
- RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- MS-17 PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A
- AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY, TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS
- MS-19 NO CHANGES IN LAND COVER CONDITIONS, DRAINAGE PATTERNS, RUNOFF VOLUMES, OR RUNOFF

- PRODUCING STORM EVENT, AND AT THE COMPLETION OF THE PROJECT. ALL PROJECTS THAT REQUIRE AN RESPONSIBLE FOR INSPECTING EACH ESC CONTROL MEASURE IN ACCORDANCE WITH THE VESCH
- WWWA EMPLOYEES INSPECTORS AND CONTRACTORS ARE DIRECTED TO PERFORM ALL WORK TO MINIMUM OSHA SAFETY STANDARDS. ADDITIONALLY. THEY ARE DIRECTED TO PROTECT THE
- THE AS&S HOLDER (WVWA) SHALL MAINTAIN, BOTH ON-SITE AND IN AS&S FILES, A COPY OF THE APROVED ESC PLAN AND A RECORD OF INSPECTIONS FOR EACH ACTIVE LAND-DISTURBING ACTIVITY.
- THE CONTRACTOR SHALL NOTIFY THE WVWA ENGINEERING COORDINATOR, MARK SINK, AT 540-537-3460 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
- ANY ADDITIONAL OFF-SITE AREAS USED FOR BORROW OR WASTE MATERIALS SHALL BE APPROPRIATELY

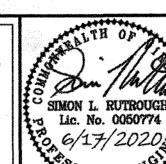
AS THE PROJECT WILL BE COMPLETED IN ACCORDANCE WITH DEQ GUIDANCE MEMO NO. 15-2003, THE PREPARATION AND IMPLEMENTATION OF A STORMWATER MANAGEMENT PLAN AND THE CONSTRUCTION

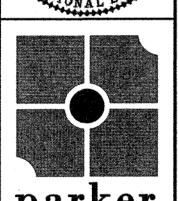
Contractor: Wells Construction Inspector: Bruce Peters 10-6-2020

#### PROPOSED FEATURES LEGEND

GATE VALVE	BLOW OFF VALVE	AIR RELEASE VALVE	
● DOMESTIC WATER METER	☐ H FITTINGS	FIRE HYDRANT ASSEMBLY	

----- WATER LINE - GENERIC/LATERAL < 1" WATER LINE - 6" DIA WATER LINE - 8" DIA - -- -- UTILITY EASEMENT





2122 Carolina Ave, SW

Roanoke, VA 24014

(540)-387-1153 1915-B W. Cary Street Richmond, VA 23220 (804)-358-2947

www.parkerdg.com esign Group(PDG) and may not be reproorization of PDG will be at the sole risk

individual or entity utilizing said documen

# 10 U > 图 里 派

**REVISIONS** 

CEP

CEP

JUNE 17, 2020

20-0034

COVER

C0.0

01 OF 23