

ORANGE AVENUE SURVEY - VDOT PROJECT U000-I28-I38 - USED WITH PERMISSION

UTILITY DESIGNATION NOTES

GENERAL NOTES:

- GN1. An underground utility designation was performed by The Spectra Group, Inc. (dated May 29, 2009) within the limits as specified by The Department and is depicted herein. The utility designation was performed in accordance with Quality Level B (location shown based on electronic information) unless otherwise noted as "Quality Level C" (approximate location shown based on records/verbal information and physical features).
- GN2. The utility sizes indicated in the designation information are based on information supplied by the utility owner (either by written records or by verbal information).
- GN3. No designation was performed beyond the Right-of-Way on the private property as the area was under construction at the time of the designation.

WATER NOTES:

- W1. Based on records, the water main changes size at the valve.
- W2. The water main is attached to and exposed under the bridge.
- W3. An electronic signal was obtained on a water line as shown. The facility is not shown on records and may be a segment of an old water main that has been relocated; however unable to confirm.
- W4. The meter box is empty as the water meter has been removed.
- W5. Records indicate the presence of a 1.5 inch water main in the area. An electronic signal was obtained in this area as shown which is believed to be this water main; however unable to confirm. Records indicate the presence of a water valve on the north end of the line; however unable to visually field locate. Debris is present in the area interfering with attempts to magnetically locate the water valve. The general location of the valve is shown for informational purposes based on schematic records.
- W6. No electronic signal can be obtained on the water service line to/from the spigot.
- W7. An electronic signal was obtained on the water service line as shown; however unable to connect the service line to the 6-inch water main. The alignment indicated by the signal appears unusual and uncertain if signal may be affected by a possible old segment of 2-inch water main running across the parcel. Also see Water Note W8.
- W8. A 2-inch pipe was found out of this location. Records indicate the presence of a 2-inch water main running across the parcel from Osborne Street (located south of the Orange Avenue project corridor) to the 6-inch water main in Orange Avenue. Additional records obtained indicate that the segment of the 2-inch water main across the private parcel has been closed and taken out of service. Uncertain if the closed segment across the parcel is still in place as unable to obtain any distinctive signals on this 2-inch segment within the parcel limits.
- W9. No electronic signal can be obtained on a segment of the water main. The approximate location is shown based on records.

GAS NOTES:

- G1. The facility is a service line.
- G2. A yellow PVC pipe/conduit was found protruding vertically above ground. This pipe/conduit appears to be used as a marker for gas facilities. The piping/conduit set at the end of the 2-inch gas main contains trace wire for the gas main.
- G3. No electronic signal can be obtained on a segment of the plastic gas main. The approximate location is shown based on records.

TELEPHONE NOTES:

- T1. Three (3) telephone cables drop down the pole. Based on electronic signals obtained, two (2) cables are buried jointly in the same trench. No electronic signal can be obtained on the third cable.
- T2. The telephone duct is attached to and exposed under the bridge.
- T3. The telephone facility is not active at this time as the cable is cut at the base of the pole.
- T4. The telephone facility is a residential service line which was designated in order to separate signals on the 8-inch water main and the adjacent unknown conductor.
- T5. A telephone service pedestal is mounted to the utility pole.
- T6. The telephone facility is inactive and is exposed and out inside the sanitary sewer manhole.
- T7. Two (2) telephone cables are buried jointly in the same trench.
- T8. The telephone conduit exits the ground and runs above ground to the payphone.
- T9. Records indicate an empty duct system to/from the telephone manhole. No electronic signal can be obtained on the empty duct and the approximate location is shown based on schematic records. Records show an empty 2-way duct splitting from the main duct along Gus Moks Boulevard and also an empty 2-way duct westward from the manhole along the south side of Orange Avenue. Unable to confirm if the duct(s) or segments thereof are still present as no signals can be obtained.
- T10. The telephone conduit exits the ground and runs above ground attached to the wall/curb.
- T11. The pay phones do not appear to be in use at this time.

CATV NOTES:

- TV1. A cable television coax cable drops down the pole; however no electronic signal can be obtained. The cable is not active at this time as the cable is cut on the pole.

ELECTRIC NOTES:

- E1. The electric conduit exits the ground and runs above ground to the electric box.
- E2. The electric service to the payphone is buried jointly in the same trench as the telephone service.
- E3. The electric conduit exits the ground and runs above ground to the sign post.
- E4. The electric box is mounted to the building wall.
- E5. An old sign base is present in the field and the electric facility does not appear to be active at this time.
- E6. A PVC vertical tube is present with cut electric wires. The wires are taped and facility appears to be active.
- E7. A PVC vertical tube is present. Electric wires run from the tube to the sign.
- E8. The electric conduit exits the ground at the "E01" location and runs above ground to the utility pole.
- E9. The electric conduit exits the ground and runs above ground attached to the wall/curb.
- E10. The electric box is attached to a wooden post.
- E11. An electronic service is buried jointly with the telephone service from the utility pole.

TRAFFIC CONTROL NOTES:

- TC1. The traffic box is paved over.
- TC2. Traffic control push button controls are attached to the utility pole.
- TC3. Based on field inspection, an empty conduit is in place between the traffic control manholes.
- TC4. No electronic signal can be obtained on the service to/from the traffic signal pole.

UNKNOWN CONDUCTOR NOTES:

- U1. A vertical metallic pipe is present protruding above ground. An electronic signal on the facility indicates that the pipe runs under the creek. The pipe is exposed in the creek. The "E01" shown represent where the signal started to run below the water. Unable to determine the function of this pipe.
- U2. An electronic signal was obtained on an unknown conductor as shown. Water records indicate the presence of an inactive water main in this area. This conductor may be the inactive water main; however unable to confirm.
- U3. The unknown conductor may be a segment of an inactive telephone facility that was found out inside a sanitary sewer manhole; however unable to confirm.
- U4. The electronic signal on the unknown conductor merges in with the signal obtained on the telephone duct, and unable to separate signals north of this location.

- (1) In Pl. SMH  
Rim Elev = 910. 45  
48" RC Pipe In = 895. 15  
48" RC Pipe Out = 895. 13
- (2) In Pl. SMH  
Rim Elev = 910. 48  
6" TC Pipe In = 898. 35  
8" TC Pipe Out = 898. 13
- (3) In Pl. SMH  
Rim Elev = 911. 11  
48" RC Pipe In = 895. 03  
12" DI Pipe In = 896. 89  
48" RC Pipe Out = 895. 01
- (4) In Pl. SMH  
Rim Elev = 911. 28  
12" DI Pipe In = 897. 15  
12" DI Pipe Out = 896. 96
- (5) In Pl. SMH  
Rim Elev = 914. 00  
4" RC Pipe In = 909. 65  
8" RC Pipe In = 909. 52  
8" RC Pipe Out = 909. 55  
(Inverts Field Verified)
- (6) In Pl. SMH  
Rim Elev = 915. 53  
8" RC Pipe Out = 911. 03
- (7) In Pl. SMH  
Rim Elev = 911. 65  
48" RC Pipe In = 895. 22  
48" RC Pipe Out = 895. 20
- (8) In Pl. SMH  
Rim Elev = 912. 34  
48" RC Pipe In = 896. 09  
48" RC Pipe Out = 896. 07
- (9) In Pl. SMH  
Rim Elev = 909. 28  
36" RC Pipe In = 896. 87  
36" RC Pipe Out = 896. 89  
(Inverts Field Verified)
- (10) In Pl. SMH  
Rim Elev = 910. 46  
36" RC Pipe In = 897. 04  
36" RC Pipe Out = 896. 86
- (11) In Pl. SMH  
Rim Elev = 909. 21  
6" TC Pipe = 900. 21 (From 12)  
6" TC Pipe = 900. 29  
36" RC Pipe Out = 897. 45
- (12) In Pl. SMH  
Rim Elev = 927. 31  
8" TC Pipe Out = 921. 84  
(Pipe Seems To Change To 6")
- (13) In Pl. SMH  
Rim Elev = 913. 79  
6" TC Pipe In = 910.92  
6" TC Pipe Out = 910. 89
- (14) In Pl. SMH  
Rim Elev = 915. 68  
48" RC Pipe In = 901. 09  
8" PVC Pipe In = 908. 88  
48" RC Pipe Out = 900. 82
- (15) In Pl. SMH  
Rim Elev = 914. 08  
8" PVC Pipe In = 906. 23  
(Pipe Type Changes Upstream From 15 To 17)  
48" RC Pipe In = 901. 60  
48" RC Pipe Out = 901. 58
- (16) In Pl. SMH  
Rim Elev = 913. 00  
48" RC Pipe Out = 901. 89
- (17) In Pl. SMH  
Rim Elev = 919. 41  
8" TC Pipe Out = 909. 65
- (35) In Pl. San Sewer MH  
Rim = 915. 72'  
6" DIP In = 912. 81'  
6" In = 912. 41'  
6" TCP Out = 912. 29'  
(Unable To Determine 6" Pipe Type Due To Pipe Being Recessed In MH)
- (36) In Pl. San Sewer MH  
Rim = 922. 67'  
6" PVC In = 920. 45' (From Cleanout)  
6" PVC In = 920. 39'  
6" PVC Out = 920. 38'
- (37) In Pl. San Sewer MH  
Rim = 934. 74'  
6" DIP In = 930. 82'  
4" DIP In = 928. 84'  
6" Out = 926. 87'  
(6" Out Pipe Type Unable To Determine Due To Pipe Being Recessed In MH)
- (38) In Pl. San Sewer MH  
Rim = 945. 82'  
4" PVC In = 942. 38'  
6" PVC Out = 942. 27'
- (A) In Pl. Conc. DI w/Metal Grate  
To  
Rim Elev 916.38  
Inv. Elev 914.39
- (B) In Pl. Conc. DI  
Rim Elev 916.50  
Inv. Elev 913.10  
Inv. Out 8" Elev 913.50
- (C) In Pl. Conc. DI  
Rim Elev 916.68  
Inv. Elev 912.68
- (D) In Pl. Conc. DI  
Rim Elev 918.22  
Inv. Elev 910.52  
Inv. In 8" East Elev 913.73
- (E) In Pl. Conc. DI  
Rim Elev 919.46  
Inv. Elev 915.58
- (F) In Pl. Conc. DI w/Metal Grate  
To  
Rim Elev 918.72  
Inv. Elev 912.52
- (G) In Pl. Conc. DI  
Rim Elev 917.01  
Inv. Elev 912.06
- (H) In Pl. Conc. DI  
Rim Elev 916.82  
Inv. Elev 911.91
- (I) In Pl. Conc. DI  
Rim Elev 919.48  
Inv. Elev 910.48
- (J) In Pl. Conc. DI  
Rim Elev 922.50  
Inv. Elev 916.13
- (K) In Pl. Conc. DI  
Rim Elev 922.59  
Inv. Elev 915.29
- (L) In Pl. Conc. DI  
Rim Elev 923.09  
Inv. Elev 909.32  
Inv. Out 18" South Elev 914.22
- (M) In Pl. 12" Conc. Pipe (Inlet Unknown)
- (N) In Pl. Conc. DI  
Rim Elev 919.00  
Inv. Elev 913.29  
Inv. Out 12" Elev 915.03
- (O) In Pl. Conc. DI  
Rim Elev 918.77  
Inv. Elev 912.67
- (P) In Pl. Conc. DI  
Rim Elev 919.81  
Inv. Elev 913.60
- (Q) In Pl. Conc. DI  
Rim Elev 921.81  
Inv. Out 15" Elev 915.91
- (R) In Pl. Conc. DI  
Rim Elev 921.52  
Inv. Elev 916.74
- (S) In Pl. SSMH  
Rim Elev 930.71  
Inv. Elev 918.80
- (T) In Pl. Conc. DI  
Rim Elev 930.88  
Inv. Elev 922.16
- (U) In Pl. Conc. DI  
Rim Elev 930.29  
Inv. Elev 922.97
- (V) In Pl. SSMH  
Rim Elev 940.44  
Inv. Elev 927.63
- (W) In Pl. Conc. DI  
Rim Elev 928.35  
Inv. Elev 931.47
- (X) In Pl. Conc. DI  
Rim Elev 932.45  
Inv. Elev 932.45

INTERSECTION OF ORANGE AVENUE & 13TH STREET SURVEY

Notes:

- 1) THIS MAP IS BASED ON A CURRENT FIELD SURVEY.
- 2) THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT AND THERE MAY EXIST ENCUMBRANCES WHICH EFFECT THE SUBJECT PROPERTY THAT ARE NOT SHOWN HEREON.
- 3) A PORTION OF THE PROPERTY, AS SHOWN HEREON, LIES WITHIN THE LIMITS OF A SPECIAL FLOOD HAZARD AREA AS DESIGNATED BY FEMA. THIS OPINION IS BASED ON AN INSPECTION OF THE FLOOD INSURANCE RATE MAPS AND HAS BEEN VERIFIED BY ACTUAL FIELD ELEVATIONS, SEE COMMUNITY PANEL #510130 0166 G, MAP #51161C0166G, DATED: SEPTEMBER 28, 2007. ZONE "AE", ZONE "X" (SHADED) & ZONE "X" (unSHADED).
- 4) HORIZONTAL AND VERTICAL CONTROL WERE ESTABLISHED BY CONVENTIONAL SURVEY OBSERVATIONS OF PHYSICAL STRUCTURES AS SHOWN ON VDOT PLANS SUPPLIED BY WRA.
- 5) CONTOURS AS SHOWN HEREON ARE AT A 2-FOOT INTERVAL.
- 7) THIS MAP DOES NOT GUARANTEE THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES. ALL SURFACE UTILITIES WERE FIELD LOCATED. ALL UNDERGROUND UTILITIES SHOWN WERE ESTABLISHED USING ABOVE GROUND STRUCTURES, AVAILABLE PUBLIC RECORDS AND MARKING ESTABLISHED BY MISS UTILITY OF VIRGINIA TICKET #A616800326. ALL UNDERGROUND UTILITY LINES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO THE START OF ANY CONSTRUCTION.

This Partial Topographic Survey was completed under the direct and responsible charge of, Larry Thomas Ogle, Jr., LS #2459 from an actual Ground survey made under my supervision; that the original data was obtained June 28 through July 11, 2016; and that this plat, including metadata meets minimum accuracy standards unless otherwise noted.

Existing Waterline Depth Table

#	Structure	Depth to Nut	Top of Cover
W-1	Gate Valve	-1.48'	918.08'
W-2	Gate Valve	-1.74	918.29'
W-3	Gate Valve	-3.31	919.45'
W-4	Gate Valve	-1.67	918.60'
W-5	Gate Valve	-1.23	919.35'
W-6	Gate Valve/Meter	-4.27	919.28'

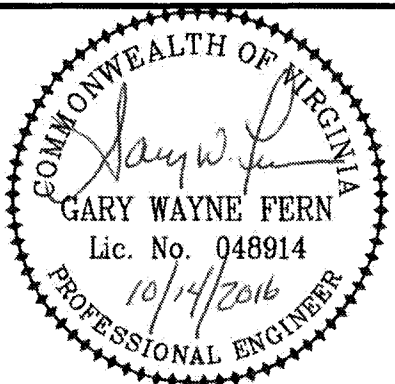
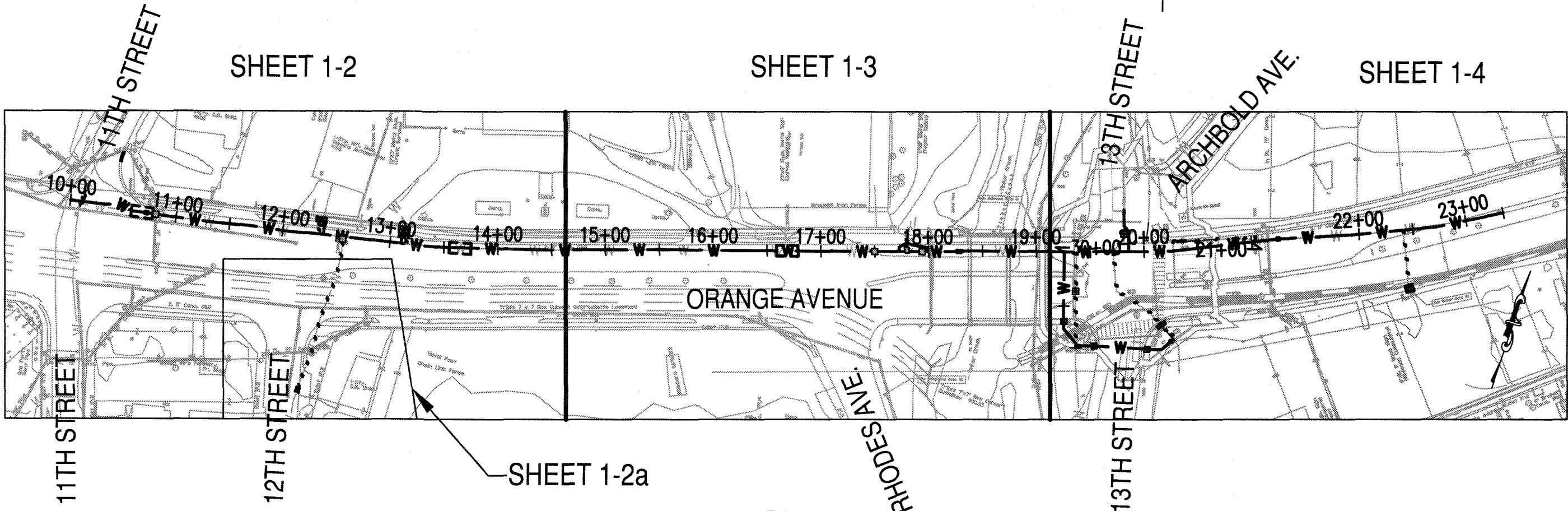
Existing Drainage Table

#	STRUCTURE	RIM	INV.OUT	INV.IN
D-1	72" RCP		905.46' (72" RCP)	906.47' (72" RCP)
D-2	DMH	919.45'	906.47' (72" RCP)	Not Located
D-3	Curb Inlet	919.08'	913.43' (15" RCP)	915.01' (12" RCP)

Existing Sanitary Sewer Table

#	STRUCTURE	WVWA#	RIM	INV.OUT	INV.IN(1)	INV.IN(2)
S-1	SSMH	05A-3209.0	923.30'	913.07' (8" TCP)	913.20' (8" TCP)	
S-2	SSMH	05A-3208.0	918.05'	911.71' (8" TCP)	911.79' (8" TCP)	
S-3	SSMH	05A-0046.0	915.70'	902.16' (48" CNC)	902.32' (48" CNC)	908.65' (8" TCP)
S-4	SSMH	05A-0045.0	911.77'	900.8*		
S-5	SSMH	05A-0044.0	919.09'	900.7*		
S-6	SSMH	05A-3097.0	919.48'	907.00' *		
S-7	SSMH	05A-3098.0	918.40'	907.8' *		

\* - Denotes Data taken from Western Virginia Water Authority GIS



Whitman, Requardt & Associates, LLP  
1700 Kraft Dr, Suite 1200, Blacksburg, VA 24060

WESTERN VIRGINIA WATER AUTHORITY

601 South Jefferson Street, Suite 300  
Roanoke, Virginia 24011

DES: PJM

DRAWN: JES

CHECK: GWF

DATE: 10/14/16

SCALE: AS SHOWN

HORIZ: N/A

VERT: N/A

2016 12-INCH WATER MAIN REPLACEMENTS

1. ORANGE AVENUE (11TH STREET TO 13TH STREET)  
2. PETERS CREEK ROAD & HERSHBERGER ROAD  
3. MELROSE AVENUE & COUNTRY CLUB DRIVE

1. ORANGE AVENUE (11TH STREET TO 13TH STREET)  
EXISTING UTILITY NOTES

DRAWING

1-1

SHEET

4