

Existing Sanitary Sewer Table							
#	STRUCTURE	WWA#	RIM	INV.OUT	INV.IN(1)	INV.IN(2)	INV.IN(3)
S-1	SSMH	05A-3304.0	* 957.22'	* 947.36' (12" TCP)			
S-2	SSMH	05A-3292.0	956.29'	946.14' (12" TCP)	946.22' (12" TCP) N	946.24' (8" TCP) S	946.29' (6") NW
S-2a	SSMH	05A-3291.0	* 946.79'		* 938.55' (12" TCP)		
S-3	SSMH	05A-3293.0	957.57'	949.30' (8" TCP)	949.37' (8" TCP) SE	949.37' (6") E	
S-4	SSMH	05A-3294.0	960.27'	951.07' (8" TCP)	951.12' (8" TCP) SE	951.27' (6" TCP) NW	
S-5	SSMH	05A-3295.0	965.61'	956.12' (8" TCP)	956.22' (8" TCP)		
S-6	SSMH	05A-3296.0	969.29'	962.49' (8" TCP)	962.50' (8" TCP)		
S-7	SSMH	05A-3297.0	973.14'	966.84'(8" TCP)	967.96' (8" TCP) S	968.54' (8" TCP) E	
S-7a	SSMH	05A-3298.0	* 994.04'	* 989.24' (8" TCP)			
S-8	SSMH	05A-3300.0	974.18'	968.68' (8" TCP)	968.68' (8" TCP) S	968.68' (8" TCP) W	
S-8a	SSMH	05A-3302.0	985.67'	980.76' (8" TCP)	980.76' (8" TCP)		
S-9	SSMH	05A-3301.0	978.28'	974.50' (8" TCP)			
S-10	SSMH	12A-3110.0	Paved Over	*973.29' (8" TCP)	* 973.29' (8" TCP)		
S-10a	SSMH	12A-3110.6	* 988.13'	* 982.02' (8" TCP)			
S-11	SSMH	12A-3106.0	976.39'	* 969.51' (8" TCP)	Not Accessible (8" TCP) E	Not Accessible (8" TCP) S	
S-11a	SSMH	12A-3107.0	* 979.39'	* 972.01' (8" TCP)			
S-12	SSMH	12A-3536.0	975.61'	* 969.48' (8" TCP)	Not Accessible (8" TCP)		
S-13	SSMH	12A-3104.0	974.55'	* 967.15' (8" TCP)	Not Accessible (8" TCP) E	Not Accessible (8" TCP) S	Not Accessible (8" TCP) NW
S-13a	SSMH	12A-3105.0	* 979.52'	* 973.94' (8" TCP)			
S-14	SSMH	12A-3113.0	975.26'	970.56' (8" TCP)	970.56' (8" TCP) N	972.86' (8" TCP) W	
S-15	SSMH	12A-3114.0	976.09'	972.49' (8" TCP)	972.49' (8" TCP) N	972.99' (8" TCP) W	
S-15a	SSMH	12A-3117.0	980.89'	976.39' (8" TCP)	976.59' (8" TCP)		
S-16	SSMH	12A-3115.0	977.09'	972.64' (8" TCP)	972.66' (8" TCP)		
S-17	SSMH	12A-3116.0	978.17'	975.17' (8" TCP)	975.52' (6" TCP)		
S-18	SSMH	12A-3101.0	973.10'	* 965.10' (8" TCP)	Not Accessible (8" TCP) N	(8" TCP) E	
S-18a	SSMH	12A-3102.0	* 978.83'	* 973.33' (8" TCP)			
S-19	SSMH	12A-3099.0	971.20'	960.68' (8" TCP)	960.70' (8" TCP) N	960.75' (8" TCP) E	
S-19a	SSMH	12A-3100.0	* 967.49'	* 963.44' (8" TCP)			
S-20	SSMH	12A-3097.0	969.72'	960.12' (8" TCP)	960.02' (8" TCP) N	963.82' (8" TCP) W	966.10' (6" TCP)
S-20a	SSMH	12A-3098.0	975.05'	969.38' (8" TCP)			
S-21	SSMH	12A-3095.2	966.28'	958.68' (8" TCP)	958.68' (8" TCP)		
S-22	SSMH	12A-3095.0	964.60'	958.05' (8" TCP)	958.10' (8" TCP) N	958.25' (8" TCP) E	
S-22a	SSMH	12A-3096.0	* 970.14'	* 962.24' (8" TCP)			
S-23	SSMH	12A-3092.0	961.87'	956.22' (8" TCP)	956.25' (8" TCP) NE	958.42' (8" TCP) W	
S-23a	SSMH	12A-3093.0	964.36'	959.06' (8" TCP)	960.61' (4" PVC)		
S-24	SSMH	12A-3089.0	951.59'	946.19' (8" TCP)	946.24' (8" TCP) NE	947.99' (8" TCP) E	948.74' (6" TCP) SE
S-25	SSMH	12A-3087.0	946.21'	941.36' (8" TCP)	941.51' (8" TCP) NE	942.86' (6" PVC) NW	
S-25a	SSMH	12A-3088.0	* 955.17'	* 949.17' (6" PVC)			
S-26	SSMH	12A-3086.0	916.47'	* 907.43' (8" PVC)	*907.43' (8" TCP)		
S-27	SSMH	12A-3083.0	914.94'	904.79' (10" TCP)	905.19' (8" PVC) NW	908.49' (8" CNC) SW	
S-27a	SSMH	12A-3084.0	* 914.45'	* 909.52' (8" CNC)			
S-28	SSMH	12A-3082.0	917.87'	* 904.38' (10" DIP)	* 904.38' (10" TCP) SW	* 904.38' (10" TCP) NE	
S-28a	SSMH	12A-0007.0	* 915.41'	* 915.41'	* 900.99' (10" DIP)		
S-29	SSMH	12A-3085.0	916.35'	*907.14' (10" TCP)			
*-- Denotes Data Rim and Invert Data taken from the Western Virginia Water Authority GIS							

Existing Waterline Valve Table			
#	RIM	TOP OF NUT	
W-2	954.04'	952.92'	
W-3	954.23'	952.01'	
W-4	954.53'	952.31'	
W-5	956.09'	953.99'	
W-6	956.52'	953.17'	
W-7	956.70'	954.60'	
W-8	958.97'	956.95'	
W-9	960.04'	956.94'	
W-10	961.02'	956.76'	
W-11	969.13'	964.83'	
W-12	974.73'	972.63'	
W-13	973.23'	971.23'	
W-14	973.85'	972.45'	
W-15	973.93'	973.01'	
W-16	978.11'	975.51'	
W-17	978.21'	976.76'	
W-18	976.69'	974.30'	
W-19	976.40'	973.94'	
W-20	977.10'	974.71'	
W-21	974.64'	970.21'	
W-22	974.19'	971.60'	
W-23	973.35'	970.98'	
W-24	972.98'	971.78'	
W-25	973.24'	971.40'	
W-26	971.35'	968.76'	
W-27	969.72'	968.54'	
W-28	965.71'	963.68'	
W-29	964.56'	962.16'	
W-30	946.69'	944.79'	
W-31	947.69'	945.89'	
W-32	948.49'	946.64'	
W-33	915.15'	912.16'	
W-34	914.93'	912.31'	
W-35	915.31'	912.47'	
W-36	915.42'	912.41'	
W-37	915.15'	912.81'	
W-38	915.02'	913.28'	
W-39	952.61'	950.46'	
W-40	950.18'	943.23'	
W-41	956.29'	955.20'	
W-42	955.14'	953.88'	
W-43	952.66'	950.97'	

SURVEY NOTES:

- THIS MAP IS BASED ON A CURRENT FIELD SURVEY.
- 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.
- 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).
- HORIZONTAL (NAD 83) AND VERTICAL CONTROL (NAVD 88) WERE ESTABLISHED BY GPS SURVEY OBSERVATIONS OF THE CITY OF ROANOKE CONTROL MONUMENTS.
- COORDINATE VALUES AS SHOWN HEREON ARE VIRGINIA STATE PLANE (SOUTH ZONE) SURFACE COORDINATES ESTABLISHED BY SCALING THE GRID COORDINATES AT POINT #11000 (N:3633968.3850, E:11068265.730, ELEV.:961.82') BY A COMBINED SCALE FACTOR OF 1.00009472.
- CONTOURS AS SHOWN HEREON ARE AT A 2-FOOT INTERVAL.
- 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 #A704600712. ALL UNDERGROUND UTILITY LINES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO THE START OF ANY CONSTRUCTION.
- SEWER PIPE MATERIALS AND DIAMETERS SHOWN HEREON WHERE TAKEN FROM THE WESTERN VIRGINIA WATER AUTHORITY GIS.

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 December 30th, 2016 through April 18, 2017; and that this plat, including metadata meets minimum accuracy standards unless otherwise noted.

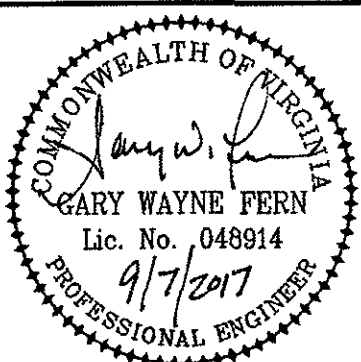
Utilities Marked per Miss Utility Ticket A704600712			
Company	Contact	Phone Number	Damage Contact Phone Number
AEP (AEP111)	USIC Locating Service	(800)778-9140	(800)956-4237
Roanoke Gas (RGC162)	S & N	(804)608-5640	(540)777-4427
Comcast (CMCS03)	Cable Protection Services	(804)562-3861	(800)441-6917 ext. opt 1
Roanoke City Signal (ROA853)	Bob Swain	(540)853-2691	(540)537-8496
Verizon (VZN804)	Utilquest	(703)754-2116	(888)483-1233
Western Virginia Water & Sewer (WVWB53)	Yvonne Doolittle	(540)283-8221	(540)283-2981
Roanoke Broadband (RIB904)	Yvonne Doolittle	(540)853-2586	(540)853-2792
Windstream KDL (WN456)	Damage Protection Group	(800)289-1901	(800)289-1901
Cox Communications (COX668)	Utilquest	(703)754-2116	(540)915-2603

PATTERN LEGEND (EXISTING)

	ASPHALT (ROAD/PARKING)
	GRAVEL (ROAD/PARKING)
	CONCRETE
	VEGETATION

SYMBOL LEGEND (EXISTING)

	FO	UNDERGROUND FIBER OPTICS
	T	UNDERGROUND TELEPHONE LINE
	W	WATER LINE
		SANITARY SEWER LINE
		STORM DRAIN LINE
		R/W AND PROPERTY BOUNDARY
	G	GAS LINE
	E	UNDERGROUND ELECTRIC LINE
		GUARDRAIL
		RAILROAD - ACTIVE
	-1030	EXISTING MAJOR CONTOURS
	-1032	EXISTING MINOR CONTOURS
		UNKNOWN UTILITY
		PROPERTY CORNER
		PROPERTY MONUMENT
		PROPERTY LINE
		SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
		STORM DRAINAGE MANHOLE
		UTILITY POLE
		GUY WIRE
		STREET LIGHT
		TREE
		TREE CONIFER
		SHRUB
		BOLLARD
		TRAFFIC ARROWS
		MAILBOX
		SIGN
		TELEPHONE PEDESTAL
		BLOW-OFF VALVE
		GATE VALVE
		WATER METER
		WATER MANHOLE
		WATER VAULT
		FIRE HYDRANT
		GAS VALVE
		PAPER BOX
		SEWER CLEAN OUT
		ELECTRIC BOX
		UTILITY POLE
		TRAFFIC SIGNAL POLE
		TELEPHONE MANHOLE
		TELEPHONE VAULT
		TRAFFIC SIGNAL CABINET
		TRAFFIC VAULT
AEP		AMERICAN ELECTRIC POWER
APCO		APPALACHIAN POWER COMPANY
B.W.L		BROKEN WHITE LINE
CNC		CONCRETE PIPE
C&P		CHESAPEAKE & POTOMAC
DMH		DRAINAGE MANHOLE
D.Y.L		DOUBLE YELLOW LINE
FO		UNDERGROUND FIBER OPTIC
GAS		UNDERGROUND GAS
OE		OVERHEAD ELECTRIC
OT		OVERHEAD TELEPHONE
RCP		REINFORCED CONCRETE PIPE
SS		SANITARY SEWER LINE
SSMH		SANITARY SEWER MANHOLE
S.Y.L		SOLID YELLOW LINE
S.W.L		SOLID WHITE LINE
TCP		TERRA COTTA PIPE
TS		TRAFFIC SIGNAL WIRE
UE		UNDERGROUND ELECTRIC
UT		UNDERGROUND TELEPHONE
VER		VERIZON
W		WATERLINE
X		APPROXIMATE LOCATION



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: GWP
DATE: 9/07/17

SCALE: N/A
HORIZ: N/A
VERT: N/A

HOLLINS ROAD WATER MAIN REPLACEMENT - PHASE 2

SURVEY SCHEDULES, NOTES, &
EXISTING LEGEND

DRAWING

SHEET

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