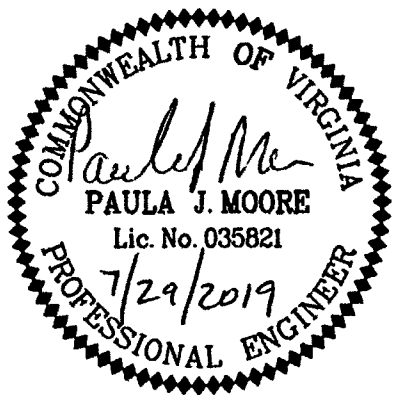


Existing Storm Drainage Table								
#	STRUCTURE	RIM	GRATE	INV.OUT	INV.IN	INV.IN(2)	INV.IN(3)	THROAT
D-1	DMH	1052.04'						
D-1a	Curb Inlet	1052.13'		1047.83' (18" RCP)	1047.93' (15" RCP)			14'
D-1b	Curb Inlet	1052.67'		1049.11' (15" RCP)				14'
D-2	Curb Inlet	1052.42'						
D-3	Drop Inlet		1047.61'	1038.51' (30" RCP)	1038.91' (30" RCP) SE	1038.66' (15" RCP) E	1039.81' (15" RCP) W	
D-3a	Curb Inlet	1047.87'		1039.95' (15" RCP)				8'
D-3b	Drop Inlet		1046.45'	1041.42' (15" RCP)				
D-4	DMH	1050.65'		1038.85' (30" RCP)	1039.07' (30" RCP) N	1045.62' (18" RCP) SE	1046.75' (18" RCP) NE	
D-4a	Curb Inlet	1050.14'		1046.47' (18" RCP)				8'
D-4b	Curb Inlet	1050.80'		1046.85' (18" RCP)				6'
D-5	DMH	1054.95'		1039.77' (30" RCP)	1039.82' (30" RCP)			
D-6	DMH	1038.18'		1032.21' (15" RCP)	1032.57' (15" RCP) SE	1032.70' (15" RCP) NW		
D-6a	Curb Inlet	1038.26'		1033.93' (15" RCP)				3'
D-6b	DMH	1038.37'		1033.46' (15" RCP)	1033.83' (15" RCP)			3'
D-7	DMH	1040.25'		1031.45' (42" RCP)	1032.03' (15" RCP) NE	1031.67' (15" RCP) SW		
D-7a	Curb Inlet	1041.42'		1033.91' (15" RCP)	1033.97' (15" RCP)			3'
D-7b	Curb Inlet	1041.34'		1035.91' (15" RCP)				3'
D-8	DMH	1029.76'		1022.24' (42" RCP)	1022.35' (42" RCP) SW	1023.19' (15" RCP) N	1023.81' (18" RCP) NE	
D-8a	Curb Inlet	1028.76'		1024.00' (18" RCP)				8'
D-8b	Curb Inlet	1029.43'		1024.46' (15" RCP)	1024.56' (15" RCP) NE			3'
D-8c	Curb Inlet	1029.81'		1024.46' (15" RCP)	1024.56' (15" RCP) NE			3'
D-8d	DMH	1035.94'		1024.20' (42" RCP)	1026.46' (42" RCP)	1025.73' (21" RCP (24"))		
D-9	Curb Inlet	1028.95'		1023.91' (15" RCP)				3'
D-10	DMH	1049.97'		1039.22' (42" RCP)	1039.22' (42" RCP)			
D-10a	Curb Inlet	1049.99'		1044.76' (12" RCP)				3'
D-11	DMH	1050.13'		1038.83' (42" RCP)	1039.10' (42" RCP)			
D-11a	Curb Inlet	1049.90'		1045.30' (15" RCP)	1045.34' (15" RCP) NE	1045.32' (15" RCP) SE		12'
D-11b	Curb Inlet	1050.26'		1046.49' (15" RCP)				18'
D-12	DMH	1050.10'		1045.91' (15" RCP)	1046.00' (15" RCP) NE	1046.03' (15" RCP) SE		
D-13	DMH	1051.53'		1047.18' (15" RCP)	1047.28' (15" RCP)			
D-14	DMH	1046.82'		1036.29' (42" RCP)	1036.53' (42" RCP)			
D-15	Curb Inlet	1048.34'		1042.20' (15" RCP)				8'
D-16	DMH	1045.82'		1041.37' (15" RCP)	1041.41' (15" RCP) NW	1041.53' (15" RCP) SE		
D-16a	Curb Inlet	1045.89'		1041.83' (15" RCP)				4'
D-16b	Curb Inlet	1045.49'		1041.81' (15" RCP)	1041.99' (15" RCP)			4'
D-17	DMH	1042.91'						
D-18	Curb Inlet	1042.18'						3'
D-19	DMH	1042.87'		1033.17' (42" RCP)	1033.40' (42" RCP)			
D-20	DMH	1042.20'		1032.05' (42" RCP)	1032.39' (42" RCP)			
D-21	DMH	Not Accessible						

Notes:

- 1) THIS PLAT IS BASED ON A CURRENT FIELD SURVEY.
- 2) THIS PLAT 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) THIS PROPERTY DOES LIE 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 MAP #51161C0162G, DATED: SEPTEMBER 28, 2007. ZONE "X" (unShaded).
- 4) HORIZONTAL (NAD 83 (VIRGINIA STATE PLANE, SOUTH ZONE)) AND VERTICAL CONTROL (NAVD88) WERE ESTABLISHED BY GPS OBSERVATIONS OF THE CITY OF ROANOKE'S CONTROL MONUMENTS.
- 5) COORDINATE VALUES AS SHOWN HEREON ARE SURFACE COORDINATES ESTABLISHED BY SCALING THE GRID COORDINATES AT POINT #11003 (N: 3637938.95200, E: 11064187.95800, ELEV.: 1051.84') BY A COMBINED SCALE FACTOR OF 1.00009924.
- 6) CONTOURS AS SHOWN HEREON ARE AT 2-FOOT INTERVALS.
- 7) THIS PLAT 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, AND MARKINGS BY MISS UTILITY. SEE MISS UTILITY TICKET NUMBERS A900400602, A907702279, A907702288, A907702299, A907702315, A907702324 AND A907702338. ALL UNDERGROUND UTILITY LINES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO THE START OF ANY CONSTRUCTION.

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF, LARRY THOMAS OGLE, JR., LS #002459 FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT ORIGINAL DATA WAS OBTAINED ON MAY 2ND THROUGH JUNE 13TH, 2019 ; AND THAT THIS PLAT, INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.



WESTERN VIRGINIA WATER AUTHORITY
601 South Jefferson Street, Suite 300
Roanoke, Virginia 24011

DES: PJM
DRAWN: JES
CHECK: GWP
DATE: 7/29/19

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

OAKLAND III
WATER MAIN REPLACEMENT

SURVEY SCHEDULES, NOTES, &
EXISTING LEGEND

DRAWING

SHEET

3

Existing Sanitary Sewer Table

#	STRUCTURE	WVWA#	RIM	INV.OUT	INV.IN(1)	INV.IN(2)	INV.IN(3)
S-2	SSMH	#13-0059.0	1052.17'	1040.36' (12" DIP)	1040.57' (12" DIP)		
S-3	SSMH	#13-0058.0	1049.87'				
S-4	SSMH	#13-0057.0	1050.02'	1037.40' (8" TCP)	1037.47' (8" TCP)		
S-5	SSMH	#13-0056.0	1046.84'	1034.93' (8" TCP)	1034.95' (8" TCP) E	1035.01' (8" TCP) N	
S-6	SSMH	#13-0055.0	1043.13'				
S-7	SSMH	#13-0054.0	1041.94'	1032.02' (12" TCP)	1032.04' (12" TCP) W	1034.14' (8" TCP) NW	
S-8	SSMH	#13-0053.0	1042.54'	1034.35' (8" TCP)	1034.46' (8" TCP) W	1034.94' (8" TCP) NE	
S-9	SSMH	#13-0052.0	1039.39'	1031.29' (8" TCP)	1031.45' (8" TCP) NW	1031.60' (8" TCP) NE	
S-10	SSMH	#13-0051.0	1037.25'	1030.02' (8" TCP)	1030.22' (8" TCP)		
S-12	SSMH	#13-3561.0	1057.72'	1049.74' (8" TCP)	1049.77' (8" TCP)		
S-13	SSMH	#13-3560.0	1043.16'	1031.35' (12" TCP)	1031.63' (12" TCP) W	1031.86' (8" TCP) NE	1038.59' (6" TCP) NEE
S-14	SSMH	#13-3559.0	1042.79'	1030.64' (12" PVC)	1030.79' (12" TCP)		
S-16	SSMH	#13-3556.0	1040.48'	1029.90' (12" PVC)	1031.84' (12" PVC) NE	1035.52' (12" PVC) NW	
S-16a	SSMH	#13-3557.0	1043.56'	1039.81' (12" PVC)			
S-17	SSMH	#13-3555.0	1038.90'	1029.29' (12" PVC)	1029.80' (12" PVC)		
S-18	SSMH	#13-3567.0	1053.62'	1050.73' (8" TCP)	1050.85' (6" TCP)		
S-19	SSMH	#13-3566.0	1052.37'	1049.31' (8" TCP)	1049.49' (8" TCP)		
S-21	SSMH	#13-3564.0	1051.06'	1046.08' (8" PVC)	1046.17' (8" TCP)	1047.24' (4" PVC)	
S-22	SSMH	#13-3904.0	1051.10'	1045.84' (8" PVC)	1045.91' (8" PVC)		
S-23	SSMH	#13-3563.0	1053.42'	1045.02' (8" PVC)	1045.27' (8" PVC)		
S-24	SSMH	#13-3903.0	1053.99'	1045.17' (8" PVC)	1045.24' (8" PVC)		
S-25	SSMH	#13-3562.0	1051.98'	1037.57' (8" TCP)	1037.65' (8" TCP) NW	1037.65' (8" TCP) NE	1042.14' (8" PVC) NW
S-25a	SSMH	#13-3568.0	1048.06'	1042.74' (8" TCP)	1042.50' (8" TCP) NE	1042.88' (4" PVC) SE	
S-26	SSMH	#13-3581.0	1055.80'	1047.66' (8" TCP)	1047.79' (8" TCP) SW	1047.72' (8" TCP) NE	
S-26a	SSMH	#13-3584.0	1062.12'	1053.45' (8" TCP)	1053.52' (8" TCP) NE	1053.65' (4" PVC) E	
S-26b	SSMH	#13-3585.0	1071.38'	1063.11' (8" TCP)	1063.42' (6" TCP) NE	1063.38' (6" TCP) SE	
S-26c	SSMH	#13-3582.0	1055.23'	1049.10' (8" TCP)	1049.18' (8" TCP) SW	1049.72' (6" TCP) S	
S-26d	SSMH	#13-3583.0	1054.82'	1049.94' (8" TCP)	1050.51' (4" TCP) S	1050.47' (4" PVC) NW	
S-27	SSMH	#13-3578.0	1055.77'	1046.63' (8" TCP)	1046.62' (8" TCP) SW	1046.69' (8" TCP) NW	1046.70' (8" TCP) NE
S-27a	SSMH	#13-3580.0	1057.97'	1048.68' (8" TCP)	1048.56' (8" TCP)		
S-27b	SSMH	#13-3579.0	1054.28'	1046.89' (8" TCP)	1046.91' (8" TCP) NW	1046.93' (6" TCP) SW	
S-28	SSMH	#13-3569.0	1048.17'	1043.78' (8" TCP)	1043.86' (8" TCP) NW	1043.83' (8" TCP) NE	1044.41' (4" PVC) S
S-29	SSMH	#13-3491.0	1052.24'	1043.74' (8" TCP)	1043.90' (8" TCP) SW	1044.36' (8" TCP) W	1043.82' (6" TCP) N
S-29a	SSMH	#13-3493.0	1052.29'	1045.54' (8" TCP)	1045.60' (8" TCP) SW	1045.70' (6" TCP) NW	
S-29b	SSMH	#13-3494.0	1072.04'	1063.46' (8" TCP)	1064.16' (4" PVC)		
S-29c	SSMH	#13-3490.0	1054.39'	1040.39' (8" TCP)	1040.42' (8" TCP)		
S-30	SSMH	#13-3570.0	1051.88'	1045.18' (8" TCP)	1045.28' (8" TCP) N	1045.31' (8" TCP) SW	
S-30a	SSMH	#13-3571.0	1059.81'	1047.27' (8" TCP)	1049.16' (8" TCP) N	1054.40' (4" PVC) SE	
S-30b	SSMH	#13-3572.0	1070.30'	1059.68' (8" TCP)	1059.79' (8" TCP)		
S-30c	SSMH	#13-3573.0	1077.27'	1071.13' (8" TCP)	1071.53' (6" TCP)		
S-31	SSMH	#13-3574.0	1053.34'	1046.56' (8" TCP)	1047.00' (8" TCP)		
S-32	SSMH	#13-3575.0	1056.39'	1047.31' (8" TCP)	1047.76' (8" TCP) S	1053.32' (6" TCP) SW	1050.54' (8" TCP) W
S-32a	SSMH	#13-3576.0	Not Found				
S-32b	SSMH	#13-3577.0	1057.54'	1049.21' (8" TCP)	1049.26' (8" TCP)		
S-33	SSMH	#13-3590.0	1078.25'	1067.63' (8" TCP)	1067.88' (8" TCP)		
S-34	SSMH	13-3539.0	1030.23'	1020.04' (12" DIP)	1020.21' (12" DIP) SW	1020.38' (8" CNC) NW	
S-34a	SSMH	13-3539.0	1030.23'	1022.40' (12" DIP)	1023.78' (12" DIP) NW	1022.55' (8" CNC) SW	
S-35	SSMH	13-3540.0	1030.95'	1021.83' (8" CNC)	1022.16' (8" HDP) NW	1022.21' (8" VCP) NE	
S-35a	SSMH	13-3541.0	1040.73'	1035.11' (8" HDP)	1035.49' (8" TCP)	1035.56' (6" PVC)	
S-35b	SSMH	13-3542.0	1055.37'	1044.08' (8" TCP)			
S-36	SSMH	13-3548.0	1030.13'	1019.54' (12" DIP)	1020.10' (12" DIP) NW	1019.93' (8" DIP) NE	
S-37	SSMH	13-3543.0	1029.32'	1021.57' (8" DIP)	1021.74' (8" CNC) NE		

Existing Waterline Valve Elevations

#	RIM	TOP_OF_NUT
W-A	1052.11'	1049.21'
W-B	1052.21'	1050.57'
W-C	1052.02'	1050.59'
W-D	1067.11'	1065.16'
W-E	1067.26'	1064.57'
W-F	1077.95'	1073.46'
W-G	1077.64'	1076.51'
W-H	1077.85'	1073.08'
W-J	1078.05'	1076.41'
W-K	1071.87'	1069.90'
W-M	1066.91'	1064.67'
W-N	1056.25'	1054.21'
W-P	1049.67'	1047.15'
W-Q	1054.17'	1051.55'
W-R	1052.62'	1051.16'
W-S	1038.96'	
W-T	1038.85'	
W-U	1055.82'	1054.28'
W-V	1051.26'	1049.53'
W-W	1064.46'	1061.58'
W-X	1031.23'	1029.87'
W-Y	1029.14'	1028.00'
W-Z	1029.57'	1028.25'
W-AA	1032.46'	1030.30'
W-AB	1032.84'	1031.25'
W-AC	1032.24'	1030.76'
W-AD	1029.85'	1028.29'
W-AE	1056.90'	1054.63'
W-AF	1051.17'	1049.78'
W-AG	1059.41'	1057.71'
W-AH	1038.34'	
W-AJ	1049.74'	1048.09'
W-AK	1047.03'	1045.79'
W-AL	1048.22'	1046.26'
W-AM	1051.76'	1048.74'

PATTERN LEGEND (EXISTING)

	ASPHALT (ROAD/PARKING)
	CONCRETE
	RIP-RAP
	STONE/MODULAR
	PLANTED BED
	VEGETATION

SYMBOL LEGEND (EXISTING)

	SANITARY SEWER LATERAL
	UNDERGROUND FIBER OPTICS
	UNDERGROUND TELEPHONE LINE
	WATER LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
	R/W AND PROPERTY BOUNDARY
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	GUARDRAIL
	RAILROAD - ACTIVE
	EXISTING MAJOR CONTOURS
	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
	SHRUB
	BOLLARD
	TRAFFIC ARROWS
	MAILBOX
	SIGN
	TELEPHONE PEDESTAL
	WELL
	GATE VALVE
	WATER METER
	WATER MANHOLE
	WATER VAULT
	FIRE HYDRANT
	GAS VALVE
	PAPER BOX
	ELECTRIC VAULT
	TRAFFIC SIGNAL POLE
	TELEPHONE MANHOLE
	TELEPHONE VAULT
	GAS METER
	ELECTRIC BOX
	ELECTRIC METER
	ELECTRIC TOWER
	AMERICAN ELECTRIC POWER
	APPALACHIAN POWER COMPANY
	BROKEN WHITE LINE
	CORRUGATED METAL PIPE
	CONCRETE PIPE
	CONCRETE
	CORRUGATED PLASTIC PIPE
	DROP INLET
	DRAINAGE MANHOLE
	DOUBLE YELLOW LINE
	UNDERGROUND FIBER OPTIC
	UNDERGROUND GAS
	GUY WIRE
	NO PARKING
	OVERHEAD ELECTRIC
	OVERHEAD UTILITIES
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	SOLID WHITE LINE
	TERRA COTTA PIPE
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND TELEPHONE
	UNDERGROUND VERIZON
	VITRIFIED CLAY PIPE
	VERIZON
	WATERLINE
	APPROXIMATE LOCATION