

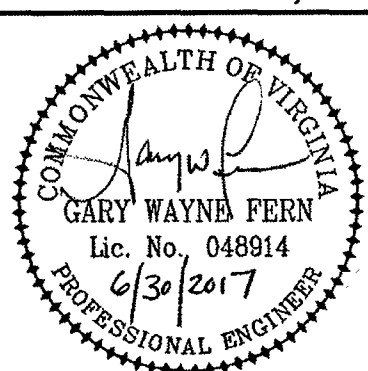
GENERAL NOTES

- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS AVAILABLE AT WWW.WESTERNWATER.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., VDOT, DEQ, DCR, VDH, ETC.) WHERE APPLICABLE.
- THE AUTHORITY WILL INSTALL ALL NEW WATER METERS AND REMOVE ALL EXISTING WATER METERS. THE CONTRACTOR SHALL INSTALL COMPLETE NEW WATER SERVICES INCLUDING THE METER SETTER AND BOX. FOLLOWING METER REPLACEMENT BY THE AUTHORITY, THE CONTRACTOR SHALL DEMOLISH THE EXISTING WATER METER SETTER AND BOX. 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 PRIOR TO NEEDING METER INSTALLATIONS. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITY TO PROVIDE A SERIES OF AT LEAST TEN (10) SERVICES THAT ARE READY TO RECEIVE NEW METERS BEFORE CONTACTING THE AUTHORITY FOR WATER METER REPLACEMENT.
- ALL CONNECTIONS TO EXISTING WATERLINES SHALL BE PERFORMED BY THE AUTHORITY. 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 TAP. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S UTILITY LINE SERVICES DIVISION AT (540)853-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIRING THE CONNECTION.
- ALL CONNECTIONS TO EXISTING SANITARY SEWERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL EXCAVATE TO THE EXISTING SEWERLINE, SHORE THE TRENCH PER OSHA REQUIREMENTS, AND CLEAN THE EXISTING SEWERLINE PRIOR TO THE AUTHORITY PERFORMING THE TAP. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S UTILITY LINE SERVICES DIVISION AT (540)853-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIRING THE CONNECTION.
- THE CONTRACTOR SHALL PERFORM ALL MANHOLE CONNECTIONS. THE CORING AND BOOT INSTALLATION SHALL BE INSPECTED AND APPROVED BY AN AUTHORITY CONSTRUCTION INSPECTOR PRIOR TO ACTIVATING SEWER SERVICE. THE CONTRACTOR SHALL CONTACT THE AUTHORITY'S CONSTRUCTION INSPECTOR RESPONSIBLE FOR THE PROJECT AT LEAST ONE (1) DAY PRIOR TO INITIATING THE MANHOLE CONNECTION.
- 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 WORK WITHIN THE CITY OF ROANOKE RIGHT-OF-WAY, THE CITY'S "RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS" SHALL BE ADHERED TO.
- 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. IN ROANOKE OR FRANKLIN COUNTIES, TRAFFIC CONTROL REQUIREMENTS SHALL BE DETERMINED ONCE THE VDOT LAND USE PERMIT HAS BEEN ISSUED. PLEASE CONTACT THE LOCAL VDOT OFFICE. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT MUTCD MANUAL AND THE VDOT WATER AREA PROTECTION MANUAL UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S 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.
- THE CONTRACTOR SHALL HAVE A VALID MISS UTILITY TICKET PRIOR TO EXCAVATION. CONTACT MISS UTILITY AT 1-800-552-7001.
- 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 WITH OTHER UTILITIES. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINIA STATE WATERWORKS REGULATIONS, SECTION 12VAC5-590-1150, AND THE VIRGINIA STATE SEWAGE COLLECTION AND TREATMENT REGULATIONS WHERE LINES CROSS.
- AN APPROVED SET OF PLANS AND PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA UTILITY CONTROL ACT.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL OBTAIN AN EROSION AND SEDIMENT CONTROL PERMIT FOR THE PROJECT FROM THE LOCAL GOVERNING JURISDICTION AND DEQ (IF 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 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.
- THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND SHALL MAINTAIN SAFE ACCESSIBILITY TO FIRE HYDRANTS AT ALL TIMES.
- THE CONTRACTOR SHALL REPAIR ALL OPEN CUT PAVEMENT IN ACCORDANCE WITH DETAIL C-12. 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 WILL 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 CONTRACTOR IS NOT ON SITE.
- THE CONTRACTOR SHALL SUPPLY THE AUTHORITY WITH CORRECT AS-BUILT PLANS BEFORE SUBSTANTIAL COMPLETION WILL BE GRANTED.
- STEEL CASING PIPE SHALL BE SMOOTH WALL FOR JACKING AND SHALL MEET THE REQUIREMENTS OF ASTM A139 WITH A MINIMUM WALL THICKNESS OF 0.5-INCH AND SHALL BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 232.
- THE TEST PRESSURE SHALL BE 200 PSI.
- CONTRACTOR SHALL EXCAVATE A TEST PIT TO DETERMINE THE DEPTH AND SIZE OF ALL CROSSING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.

SURVEY NOTES:

- THIS TOPOGRAPHIC SURVEY IS BASED ON A CURRENT FIELD SURVEY.
- THIS TOPOGRAPHIC SURVEY 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.
- THIS PROPERTY AS SHOWN HEREON DOES NOT 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 COMMUNITY PANEL #510130 0161 G, MAP #511161C0161G, DATED: SEPTEMBER 28, 2007, ZONE "X" (UNSHADED).
- 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.
- COORDINATE VALUES AS SHOWN HEREON ARE SURFACE COORDINATES ESTABLISHED BY SCALING THE GRID COORDINATES AT POINT #11000 (N:3643184.4410, E:11046014.0700, ELEV.:1106.11') BY A COMBINED SCALE FACTOR OF 1.00009954.
- CONTOURS AS SHOWN HEREON ARE AT A 2-FOOT INTERVAL.
- THIS TOPOGRAPHIC SURVEY 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 #A614401189. 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 Ogles Jr., LS #2459 from an actual Ground survey made under my supervision; that
the original data was obtained October and November 2016; and that this plot, 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: **GWF**
DATE: **6/30/17**

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

MELROSE AVENUE, NW
WATER MAIN REPLACEMENT

LEGENDS, ABBREVIATIONS, & NOTES

DRAWING

SHEET

2

#	STRUCTURE	WVA#	RIM	INV.OUT	INV.(1)	INV.(2)	INV.(3)
S-1	Sanitary Sewer Manhole	16-3417.0	1064.13'	1057.11'	1057.32'		
S-2	Sanitary Sewer Manhole	16-3416.0	1062.20'	1054.35'	1054.40'		
S-3	Sanitary Sewer Manhole	16-3415.0	1059.24'	1051.04'	1051.09'		
S-4	Sanitary Sewer Manhole	16-3424.0	1061.67'	1054.67'	1054.67'		
S-5	Sanitary Sewer Manhole	16-3419.0	1060.33'	1053.33'	1053.48'	1053.38	
S-6	Sanitary Sewer Manhole	16-3418.0	1058.84'	1048.54'	1048.44'		
S-7	Sanitary Sewer Manhole	16-3420.0	PAVED OVER				
S-8	Sanitary Sewer Manhole	16-3425.0	1056.97'	(8" TCP)	1057.17'	(8" TCP) SE	
S-9	Sanitary Sewer Manhole	07A-3261.0	1061.05'	1052.72'	(8" TCP)	1052.81'	(8" TCP) SE
S-10	Sanitary Sewer Manhole	07A-3220.0	1058.06'	1051.40'	(8" TCP)	1051.46'	(8" TCP) SE
S-11	Sanitary Sewer Manhole	07A-3260.0	1057.97'	1050.20'	(8" TCP)	1050.27'	(8" TCP) SW
S-12	Sanitary Sewer Manhole	07A-3262.0	1062.96'	1055.29'	(8" TCP)	1054.34'	(8" TCP) SW
S-13	Sanitary Sewer Manhole	07A-3263.0	1063.09'	1075.53'	(8" TCP)	1075.62'	(8" TCP) SW
S-14	Sanitary Sewer Manhole	07A-3210.0	1053.18'	1046.03'	(8" TCP)	1046.08'	(8" TCP) SW
S-15	Sanitary Sewer Manhole	07A-3259.0	1052.33'	1044.68'	(8" TCP)	1044.78'	(8" TCP) SE
S-16	Sanitary Sewer Manhole	07A-3218.0	1048.94'	1042.19'	(8" TCP)	1042.24'	(8" TCP) SE
S-17	Sanitary Sewer Manhole	07A-3258.0	1048.02'	1041.79'	(8" TCP)	1041.94'	(8" TCP) SE
S-18	Sanitary Sewer Manhole	07A-3211.0	1028.89'	1022.11'	(8" TCP)	1022.18'	(8" TCP) N
S-20	Sanitary Sewer Manhole	NO NUMBER	1047.67'	1042.17'	(4" PVC)	1042.22'	(4" PVC) NE
S-21	Sanitary Sewer Manhole	07A-3217.0	1046.67'	1039.39'	(8" TCP)	1039.46'	(8" TCP) SE
S-22	Sanitary Sewer Manhole	07A-3257.0	1046.75'	1038.76'	(8" TCP)	1038.83'	(8" TCP) SE
S-23	Sanitary Sewer Manhole	07A-3287.0	1051.98'	1042.89'	(8" TCP)	1043.08'	(8" TCP) SW
S-24	Sanitary Sewer Manhole	07A-3216.0	1044.55'	1037.21'	(8" TCP)	1037.25'	(8" TCP) SE
S-25	Sanitary Sewer Manhole	07A-3215.0	1042.91'	1035.96'	(8" TCP)	1036.01'	(8" TCP) SE
S-26	Sanitary Sewer Manhole	07A-3256.0	1044.19'	1035.64'	(8" TCP)	1035.74'	(8" TCP) SW
S-27	Sanitary Sewer Manhole	07A-3302.0	1055.64'	1047.24'	(8" TCP)		
S-28	Sanitary Sewer Manhole	07A-3300.0	1065.23'	1055.41'	(8" TCP)	1055.43'	(8" TCP) SW
S-29	Sanitary Sewer Manhole	07A-3214.0	1040.21'	1032.74'	(8" TCP)	1032.89'	(8" TCP) SE
S-30	Sanitary Sewer Manhole	07A-3255.0	1041.28'	1032.39'	(8" TCP)	1032.46'	(8" TCP) SE
S-31	Sanitary Sewer Manhole	07A-3213.0	1036.85'	1029.55'	(12" TCP)	1029.62'	(12" TCP) N
S-32	Sanitary Sewer Manhole	07A-3254.0	1037.73'	1029.51'	(12" TCP)	1029.54'	(12" TCP) E
S-33	Sanitary Sewer Manhole	07A-3212.0	1032.89'	1025.01'	(12" TCP)	1025.19'	(12" TCP) E
S-34	Sanitary Sewer Manhole	07A-3253.0	1033.99'	1025.01'	(12" TCP)	1025.19'	(12" TCP) E
S-35	Sanitary Sewer Manhole	07A-3252.0	1028.47'	1020.87'	(8" TCP)	1020.96'	(8" TCP) SE
S-36	Sanitary Sewer Manhole	07A-3210.0	1028.47'	1020.97'	(8" TCP)	1021.06'	(8" TCP) E
S-37	Sanitary Sewer Manhole	07A-3251.0	1027.25'	1019.40'	(8" TCP)	1019.52'	(8" TCP) SE
S-38	Sanitary Sewer Manhole	07A-3209.0	1026.39'	1018.49'	(8" TCP)	1018.69'	(8" TCP) E
S-39	Sanitary Sewer Manhole	07A-3250.0	1023.83'	1017.35'	(8" TCP)	1017.48'	(8" TCP) SE
S-40	Sanitary Sewer Manhole	07A-3208.0	1021.43'	1015.05'	(12" TCP)	1015.14'	(12" TCP) E
S-41	Sanitary Sewer Manhole	07A-3249.0	1018.80'	1013.16'	(8" TCP)	1013.28'	(8" TCP) E
S-42	Sanitary Sewer Manhole	07A-3207.0	1018.44'	1011.79'	(8" TCP)	1011.93'	(8" TCP) E
S-43	Sanitary Sewer Manhole	07A-3248.0	1015.13'	1010.16'	(8" TCP)	1010.28'	(8" TCP) SE
S-44	Sanitary Sewer Manhole	07A-3206.0	1013.01'	1007.26'	(8" TCP)	1007.39'	(8" TCP) E
S-45	Sanitary Sewer Manhole	07A-3205.0	1012.13'	1006.51'	(8" TCP)	1006.44'	(8" TCP) SE
S-46	Sanitary Sewer Manhole	07A-3247.0	1010.62'	1004.80'	(8" TCP)	1004.87'	(8" TCP) SE
S-47	Sanitary Sewer Manhole	07A-3204.0	1010.18'	1002.86'	(8" TCP)	1002.92'	(8" TCP) E
S-48	Sanitary Sewer Manhole	07A-3226.0	1046.92'	1037.54'	(8" TCP)	1037.62'	(8" TCP) SE
S-49	Sanitary Sewer Manhole	07A-3233.0	1039.19'	1030.40'	(8" TCP)	1031.97'	(8" TCP) SE
S-50	Sanitary Sewer Manhole	07A-3267.0	1056.17'	1048.19'	(8" TCP)	1048.47'	(8" TCP) SW
S-51	Sanitary Sewer Manhole	07A-3290.0	1040.75'	1034.80'	(8" TCP)	1035.02'	(8" TCP) W
S-52	Sanitary Sewer Manhole	07A-3296.0	1063.95'	1053.77'	(8" TCP)	1053.86'	(8" TCP) NW
S-53	Sanitary Sewer Manhole	07A-3236.0	1052.62'	1044.77'	(8" TCP)	1044.83'	(8" TCP) NW
S-54	Sanitary Sewer Manhole	16-3421.0	1049.49'	1087.97'	(8" TCP)	1087.99'	(8" TCP) N

Note: All Sanitary Sewer Pipe sizes and types are based on data taken from the Western Virginia Water Authority GIS.

#	RIM	TOP OF M/T
W-1	1060.38'	1058.71'
W-2	1062.24'	1058.88'
W-3	1061.45'	1059.79'
W-4	1062.96'	1059.34'
W-5	1062.31'	1058.67'
W-6	1059.95'	1056.95'
W-7	1058.44'	1056.08'
W-8	1059.20'	1056.85'
W-9	1060.34'	1057.69'
W-10	1052.14'	1054.77'
W-11	1049.59'	1047.59'
W-12	1048.65'	1044.70'
W-13	1049.14'	1047.22'
W-14	1048.71'	1046.79'
W-15	1046.69'	1044.57'
W-16	1043.95'	1041.03'
W-17	1044.09'	1041.92'
W-18	1044.22'	1042.17'
W-19	1043.75'	1041.98'
W-20	1037.64'	1035.69'
W-21	1036.46'	1037.16'
W-22	1037.00'	No Value Evident
W-23	1038.55'	1036.15'
W-24	1037.12'	1034.74'
W-25	1030.21'	1028.21'
W-26	1029.13'	1026.74'
W-27	1070.86'	1069.22'
W-28	1023.14'	1020.95'
W-29	1021.77'	1019.82'
W-30	1020.63'	1021.97'
W-31	1047.10'	1043.77'
W-32	1037.96'	1019.82'
W-33	1012.61'	1011.10'
W-34	1012.46'	1010.98'
W-35	1013.37'	1012.00'
W-36	1063.20'	1061.43'
W-37	1029.60'	1027.68'

Existing Drainage Table										
#	STRUCTURE	RIM	GRATE	INV.OUT	INV.(1)	INV.(2)	INV.(3)	INV.(4)	INFO	THROAT
D-1	Curb Inlet	1062.14'								5.0'
D-2	Curb Inlet	1061.80'		1058.88'	1058.94'					5.0'
D-3	Manhole	1060.51'		1052.41'	1055.34'	1056.01'	1052.62'			
D-4	Curb Inlet	1060.63'		1056.35'						5.0'
D-5	Manhole	1059.26								
D-6	Curb Inlet	1059.52								
D-7	Manhole	1058.04'		1050.12' (24" RCP)	1050.31' (18" RCP) NE	1053.70' (18" RCP) SE				
D-8	Curb Inlet	1058.97'		1054.65' (18" RCP)	1054.81' (18" RCP) SW					5.5'
D-9	Curb Inlet	1058.89'		1055.06' (18" RCP)	1055.34' (15" RCP) NW					5.0'
D-10	Curb Inlet	1058.61'		1055.71' (18" RCP)	1056.61' (15" RCP) SE	1057.41' (6" PVC) SW				5.5'
D-11	Curb Inlet	1059.19'		1056.51' (15" RCP)						5.0'
D-12	Curb Inlet	1058.00'		1051.68' (18" RCP)	1055.61' (8" PVC) NE					5.0'
D-13	Manhole	1048.81'		1040.31' (30" RCP)	1043.56' (24" RCP) SW	1040.36' (30" RCP) SE				
D-14	Manhole	1049.02'		1040.72' (30" RCP)	1043.87' (18" RCP) SE	1042.49' (18" RCP) NE	1040.77' (24" RCP) SE			
D-15	Curb Inlet	1049.45'		1044.50' (18" RCP)	1044.60' (18" RCP) SW					
D-16	Curb Inlet	1049.55'		1045.50' (18" RCP)	1045.52' (18" RCP) NW	1045.55' (18" RCP) SW				8'
D-17	Curb Inlet	1049.65'		1046.50' (15" RCP)						4.5'
D-18	Curb Inlet	1049.49'		1046.51' (15" RCP)	1046.89' (12" RCP) NW					5'
D-19	Grate	1049.10'		1046.15' (18" RCP)						
D-20	Grate	1048.83'		1047.68' (12" RCP)						
D-21	Manhole	1048.08'		1044.00' (36" RCP)	1046.02' (15" RCP) SE	1044.28' (36" RCP) SW	1046.18' (15" RCP) NW			
D-22	Manhole	1046.44'		1036.85' (36" RCP)	1040.37' (24" RCP) SE	1039.62' (18" RCP) NE				
D-23	Curb Inlet	1047.24'		1041.86' (18" RCP)	1041.99' (15" RCP) NE					5.0'
D-24	Curb Inlet	1059.52'		1041.71' (24" RCP)	1041.81' (24" RCP) SW					5.0'
D-25	Curb Inlet	1046.92'		1042.72' (24" RCP)	1043.02' (18" RCP) SW					5.0'
D-26	Curb Inlet	1046.99'		1043.34' (18" RCP)	1043.56' (15" RCP) NW	1045.54' (4" METAL) SE				5.0'
D-27	Curb Inlet	1046.84'		Debris-filled						5.0'
D-28	Curb Inlet	1049.10		1045.05' (15" CPP)						6.0
D-29	Curb Inlet	1048.50'		1040.50' (18" RCP)	1040.75' (15" RCP) SE					5.0'
D-30	Curb Inlet	1044.31'		1039.86' (18" RCP)	1040.16' (18" RCP) SW					5.0'
D-31	Curb Inlet	1043.33'		1038.53' (18" RCP)						5.0'
D-32	Curb Inlet	1043.13'		1038.73' (24" RCP)	1038.73' (18" RCP) SE					5.0'
D-33	Manhole	1042.59'		1032.32' (42" RCP)	1036.00' (24" RCP) E	1032.34' (36" RCP) SE	1036.24' (24" RCP) S			
D-34	Curb Inlet	1042.86'		1037.62' (24" RCP)	1037.72' (18" RCP) SE					5.0'
D-35	Manhole	1037.61'		1026.70' (48" RCP)	1026.90' (48" RCP) E	1029.24' (24" RCP) NE	1031.29' (24" RCP) SE	1028.48' (30" RCP) N		5.0'
D-36	Curb Inlet	1038.43'		1032.66' (24" RCP)						5.0'
D-37	Curb Inlet	1038.51'		1034.28' (24" RCP)	1034.49' (18" RCP) SW					5.0'
D-38	Curb Inlet	1038.26'		1034.86' (18" RCP)	1034.91' (18" RCP) W					4.5'
D-39	Curb Inlet	1038.09'		1035.22' (18" RCP)	1035.28' (15" RCP) S					5.0'
D-40	Curb Inlet	1037.51'		1032.10' (24" RCP)						5.0'
D-41	Curb Inlet	1037.46'		1032.06' (30" RCP)	1032.26' (30" RCP) E	1032.46' (24" RCP) N				5.5'
D-42	Curb Inlet	1037.50'		1034.39' (18" RCP ?)						6.5'
D-43	Manhole	1030.15'		1019.17' (48" RCP)	1019.28' (48" RCP) E	1023.88' (24" RCP) NE	1023.93' (24" RCP) SE			
D-44	Curb Inlet	1030.81'		1024.69' (24" RCP)						5.0'
D-45	Curb Inlet	1030.31'		1026.26' (24" RCP)	1026.68' (18" RCP) W					5.0'
D-46	Curb Inlet	1029.73'		1027.38' (15" RCP)						5.0'
D-47	Curb Inlet	1048.73'		1043.48' (18" RCP)	1044.13' (18" RCP) SE					5.5'
D-48	Manhole	1052.59'		1042.67' (30" RCP)	1043.09' (18" RCP) N	1047.30' (18" RCP) NE	1042.69' (30" RCP) N			
D-49	Curb Inlet	1029.51'		1029.79' (24" RCP)	1029.81' (24" RCP) SW	1028.61' (4" PVC) N				5.0'
D-50	Curb Inlet	1029.70'		1028.52' (24" RCP)	1028.64' (18" RCP) W					5.0'
D-51	Curb Inlet	1029.02'		1026.23' (18" RCP)						5.0'
D-52	Manhole	1021.76'		1011.98' (48" RCP)	1012.14' (48" RCP) E	1018.14' (18" RCP) NW	1017.00' (18" RCP) SE	1014.56' N	Inlet Inv. #4 Plugged	
D-53	Curb Inlet	1022.35'		1017.55' (18" RCP)	1018.70' (18" RCP) W					5.0'
D-54	Curb Inlet	1022.43'		1017.01' (18" RCP)	1017.14' (18" RCP) NW	1017.13' (15" RCP) E				5.0'
D-55	Grate	1022.27	1.8' X 2.4'	Debris Filled						
D-56	Curb Inlet	1022.16'		1018.11' (24" RCP)	1018.18' (24" RCP) W					5.0'
D-57	Curb Inlet	1021.62'		1018.74' (15" RCP)	1018.87' (8" RCP) W					5.0'
D-58	Curb Inlet	1012.80'		1010.39' (18" RCP)						5.0'
D-59	Curb Inlet	1012.80'		1008.56' (24" RCP)	1008.58' (18" RCP) NE	1009.33' (6" METAL) SE				3.0'
D-60	Manhole	1012.06'		1007.70' (24" RCP)	1007.78' (24" RCP) SW					5.0'
D-61	Manhole	1011.13'		1006.65' (24" RCP)	1006.70' (24" RCP) SE	1007.15' (18" RCP) S				5.0'
D-62	Grate	1010.89'		1007.27' (18" RCP)	1007.30' (4" CPP) SW					5.0'
D-63	Grate	1011.84'		1008.96' (18" RCP)						
D-64	Curb Inlet	1012.56'		1007.85' (16" RCP)	1008.07' (15" RCP) NW					5.0'
D-65	Curb Inlet	1013.05'		1008.85' (15" RCP)	1009.11' (12" RCP) NW					5.0'
D-66	Curb Inlet	1013.04'		1010.37' (12" RCP)	1010.61' (4" METAL) NW					5.0'
D-67	Curb Inlet	1010.04'		1007.29' (18" RCP)						5'
D-68	Curb Inlet	1011.06'		1007.83' (24" RCP)						5'
D-70	Manhole	1058.18'		1053.15' (36" RCP)	1053.25' (36" RCP) NW					
D-71	Manhole	1010.65'		1003.00' (60" RCP)	1005.33' (15" RCP) S	1003.28' (60" RCP) E	1003.45' (18" RCP) NE			
D-72	Manhole	Flowed Over								
D-74	Grate	1023.44'	1.8' X 2.4'	1020.24' (15" RCP)						
D-75	Manhole	1042.12'		1037.00' (15" RCP)	1037.12' (15" RCP) S					
D-76	Grate	1010.66'		1005.04' (32" RCP)	1005.49' (24" RCP) SE	1005.28' (18" RCP) NE				
D-77	Curb Inlet	1010.10'		1006.63' (15" RCP)	1006.84' (24" Hole)					5'
D-78	Curb Inlet	1010.13'		1005.62' (18" RCP)	1006.89' (6" RCP) N					5'