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STORM MAINTENANCE HOLE DATA										
NO.	STATION	OFFSET	COVER	STRUCTURE	T/G	NORTHING	EASTING			
CBMHST 47	6+155.29	11.90 RT	SLF / S24.1	OPSD 701.010	76.01	71.20 SE 74.10 NW	5028345.75	366464.4325		
CBMHST 101	5+349.20	21.08 LT	SLF / S24.1	OPSD 701.010	76.42	74.40 W 73.84 SE	5028270.11	366687.5932		
CBMHST 103	5+284.82	29.38 LT	SLF / S24.1	OPSD 701.010	74.60	72.13 SE 72.51 SW 72.10 NW	5028293.20	366659.2088		
CBMHST 104	5+343.41	26.30 LT	SLF / S24.1	OPSD 701.010	76.59	75.17 SE 75.19 NE 74.14 NW	5028290.84	366700.0385		
CBMHST 105	5+301.52	20.82 LT	SLF / S24.1	OPSD 701.010	74.82	72.43 SE 72.40 NW	5028313.37	366667.1579		
CBMHST 208	7+183.48	55.08 RT	SLF / S24.1	OPSD 701.010	77.80	73.44 E 74.26 SW 74.17 W	5028544.84	366621.6411		
CBMHST 209	7+180.58	40.48 RT	SLF / S24.1	OPSD 701.010	76.69	73.35 E 73.31 NE	5028563.82	366617.0433		
CUP OGS 301	5+277.76	10.58 RT	SLF / S24.1	OPSD 701.010	75.11	73.01 SE 72.91 NW	5028307.82	366623.3110		
MHST 1578	6+291.26	1.97 RT	SLF / S24.1	OPSD 701.014	74.44	69.97 SW	5028394.55	366464.1197		
MHST 204	6+230.43	1.97 RT	SLF / S24.1	OPSD 701.013	74.96	70.17 W 67.56 SW 67.57 E	5028333.78	366466.7864		
MHST 201	6+251.75	1.50 RT	SLF / S24.1	OPSD 701.014	74.96	70.27 SW	5028355.67	366465.9733		
MHST 203	6+090.49	0.00 LT	SLF / S24.1	OPSD 701.010	78.81	73.19 S 73.11 NE	5028551.06	366572.3839		
MHST 204	6+006.63	0.00 T	SLF / S24.1	OPSD 701.010	78.87	73.19 S 73.11 NE	5028547.13	366590.1804		
MHST 205	6+081.94	0.02 LT	SLF / S24.1	OPSD 701.010	78.23	73.09 SW 72.98 NE	5028554.63	366579.8488		
MHST 206	6+043.67	0.01 LT	SLF / S24.1	OPSD 701.010	75.77	72.58 SW 72.51 NE	5028580.49	366583.4509		
MHST 211	20+154.79	90.66 RT	SLF / S24.1	OPSD 701.010	70.26	68.48 NW 68.31 SE	5028522.74	366595.2387		
MHST 212	59+131.43	0.00 T	SLF / S24.1	OPSD 701.011	70.39	67.35 SW 67.36 NE	5028490.82	366724.1488		
MHST 213	59+004.63	0.00 T	SLF / S24.1	OPSD 701.010	70.30	68.57 S 68.54 E	5028403.62	366648.9223		
MHST 214	59+055.73	0.02 RT	SLF / S24.1	OPSD 701.011	70.30	68.41 W 68.19 N	5028410.50	366697.5648		
MHST 218	55+016.14	0.00 T	SLF / S24.1	OPSD 701.010	75.08	73.98 N 73.91 E	5028358.66	366529.7140		

CATCHBASIN DATA										
NO.	STATION	OFFSET	COVER	STRUCTURE	T/G	NORTHING	EASTING			
CB40	10+019.86	8.38 LT	S19	OPSD 705.010	72.69	5028651.45	366664.37			
CB41	6+006.28	18.09 RT	S19	OPSD 705.010	83.13	5028349.31	366354.53			
CB42	6+042.65	4.00 RT	S19	OPSD 705.010	81.49	5028385.30	366373.30			
CB43	6+077.81	4.80 LT	S19	OPSD 705.010	81.69	5028396.38	366366.34			
CB44	6+064.11	4.00 RT	S19	OPSD 705.010	80.27	5028379.30	366388.74			
CB45	6+057.63	4.00 LT	S19	OPSD 705.010	80.68	5028398.29	366373.63			
CB46	6+077.63	4.00 LT	S19	OPSD 705.010	79.68	5028412.12	366394.94			
CB47	6+102.63	4.42 RT	S22/S23	OPSD 705.010	78.58	5028423.31	366405.98			
CB48	6+097.63	4.42 LT	S22/S23	OPSD 705.010	78.05	5028425.31	366405.98			
CB49	6+112.59	4.42 RT	S22/S23	OPSD 705.020	78.85	5028428.17	366427.12			
CB50	6+117.63	4.42 LT	S22/S23	OPSD 705.010	77.85	5028438.18	366425.30			
CB51	6+122.63	4.42 RT	S22/S23	OPSD 705.010	77.57	5028434.63	366434.81			
CB52	6+131.24	4.42 LT	S22/S23	OPSD 705.010	77.18	5028446.94	366435.71			
CB53	6+132.63	4.42 RT	S22/S23	OPSD 705.010	77.04	5028441.07	366442.46			
CB54	6+144.86	4.42 LT	S22/S23	OPSD 705.010	76.44	5028452.76	366446.14			
CB55	6+143.02	4.48 RT	S22/S23	OPSD 705.020	76.98	5028447.42	366460.14			
CB56	6+160.34	4.52 LT	S22/S23	OPSD 705.010	75.98	5028465.54	366453.74			
CB58	6+175.00	5.18 LT	S22/S23	OPSD 705.010	75.94	5028479.94	366456.25			
CB59	6+210.92	8.00 LT	S19	OPSD 705.010	74.59	5028513.83	366457.48			
CB61	6+186.80	4.96 RT	S19	OPSD 705.010	75.24	5028486.20	366466.66			

SANITARY DESIGN

SANITARY MAINTENANCE HOLE DATA										
NO.	STATION	OFFSET	COVER	STRUCTURE	T/G	NORTHING	EASTING			
MHSA 30	52+010.00	0.00 T	SLF / S24	OPSD 701.010	75.79	69.27 E 68.24 NW	5028447.11	366478.33		
MHSA 31	50+034.20	0.01 LT	SLF / S24	OPSD 701.010	74.79	69.04 E	5028550.60	366463.60		
MHSA 32	67+008.41	0.00 T	SLF / S24	OPSD 701.010	78.61	72.80 S 72.24 NE	5028551.02	366581.41		
MHSA 33	67+046.50	0.00 T	SLF / S24	OPSD 701.010	75.28	72.35 SW 67.90 N	5028585.24	366598.12		
MHSA 34	67+069.34	0.02 RT	SLF / S24	OPSD 701.010	73.97	67.17 S 67.18 W	5028607.19	366604.47		
MHSA 35	63+005.40	0.00 T	SLF / S24	OPSD 701.010	73.21	67.30 SW 67.36 E	5028559.03	366599.57		
MHSA 37	58+032.25	0.04 RT	SLF / S24	OPSD 701.010	70.20	67.31 W 67.28 N	5028405.20	366673.67		
MHSA 38	58+063.27	0.04 LT	SLF / S24	OPSD 701.010	69.79	67.12 S 67.12 N	5028435.43	366680.85		
MHSA 39	58+091.00	0.02 RT	SLF / S24	OPSD 701.010	66.75	67.72 NW 66.98 NE	5028462.25	366688.25		
MHSA 40	58+117.30	0.01 LT	SLF / S24	OPSD 701.010	69.85	67.91 W 68.91 NE	5028484.83	366702.69		
MHSA 41	58+150.48	0.01 LT	SLF / S24	OPSD 701.010	70.14	66.92 SW 67.00 E	5028506.49	366727.02		
MHSA 42	58+005.92	0.02 RT	SLF / S24	OPSD 701.010	70.26	67.97 W 67.44 E	5028491.43	366747.67		
MHSA 43	6+158.83	0.65 RT	SLF / S24	OPSD 701.010	75.90	69.12 SE	5028462.78	366458.29		

SANITARY PIPE DATA										
FROM	TO	DIA (mm)	TYPE	LENGTH (m)	SLOPE	UPSTR	DOWNSTR			
BR-SAN-1	PIPE	100	PVC SDR-35	8.43	1.00%	73.35	73.27			
BR-SAN-2	PIPE	100	PVC SDR-35	7.74	1.00%	72.41	72.33			
CUP-SAN-1	AW MHSA 35	250	PVC SDR-35	7.80	2.00%	70.39	70.24			
CUP-SAN-2	AW MHSA 34	200	PVC SDR-35	6.42	2.00%	70.90	70.73			
MHSA 30	MHSA 33	300	PVC SDR-35	25.09	0.50%	69.24	69.25			
MHSA 33	MHSA 34	250	PVC SDR-35	22.85	1.00%	71.90	71.57			
MHSA 35	AW MHSA 20	250	PVC SDR-35	7.89	2.00%	67.28	67.30			
MHSA 37	MHSA 38	300	PVC SDR-35	31.03	0.50%	67.28	67.12			
MHSA 38	MHSA 39	375	PVC SDR-35	27.82	0.50%	67.12	66.98			
MHSA 39	MHSA 40	375	PVC SDR-35	26.60	0.65%	66.98	66.81			
MHSA 41	AW MHSA 11	375	PVC SDR-35	32.58	0.65%	66.81	66.20			
MHSA 42	MHSA 37	300	PVC SDR-35	51.86	0.65%	66.67	66.63			
MHSA 43	MHSA 32	300	PVC SDR-35	26.37	0.50%	67.44	67.31			
PG-SAN-1	MHSA 37	300	PVC SDR-35	6.91	1.00%	72.87	72.80			
TA-SAN-1	MHSA 31	300	PVC SDR-35	82.30	1.00%	69.36	69.24			
TA-SAN-2	MHSA 30	300	PVC SDR-35	3.71	1.00%	69.36	69.27			
TA-SAN-3	MHSA 42	300	PVC SDR-35	4.15	2.00%	66.05	67.09			
TA-SAN-4	MHSA 38	300	PVC SDR-35	29.99	1.00%	66.00	67.09			
TA-SAN-5	MHSA 39	300	PVC SDR-35	3.91	1.00%	66.00	67.72			
TA-SAN-6	MHSA 35	250	PVC SDR-35	2.91	2.50%	68.00	67.90			

WATERMAIN STRUCTURES TABLE										
ID	STATION	OFFSET (m)	NORTHING	EASTING	TYPE	T/G	OBVERT			
001	300+003.70	L-6.01	5028411.370	366579.237	CAP	69.39	67.36			
002	300+089.07	0.00	5028492.320	366705.513	22.5 HORIZONTAL BEND	69.91	67.25			
003	300+095.15	0.00	5028461.193	366691.033	11.25 HORIZONTAL BEND	69.91	67.26			
004	300+049.67	L-14.10	5028493.281	366674.478	45 HORIZONTAL BEND	69.97	67.20			
005	300+066.39	R-5.62	5028497.436	366698.473	11.25 HORIZONTAL BEND	74.71	71.61			
006	???	??????	5028622.146	366731.945	300x300x150 TEE	71.12	67.75			
007	5+113.52	L-29.78	5028133.638	366476.080	MECHANICAL CONNECTION	70.71	71.67			
008	5+119.07	L-29.78	5028382.456	366481.452	MECHANICAL CONNECTION	72.56	71.67			
009	5+152.66	0.00	5028366.102	366507.809	VALVE AND VALVE BOX	76.76	73.81			
010	300+005.15	L-8.73	5028499.070	366659.918	45 HORIZONTAL BEND	69.94	66.70			
011	65+066.88	L-3.19	5028587.073	366561.522	CAP	66.82	71.73			
012	6+134.63	L-5.44	5028290.817	366466.196	VALVE AND VALVE BOX	75.85	73.15			
013	6+066.28	R-30.51	5028597.872	366493.384	300 TO 150 REDUCER	74.74	71.76			
014	300+033.98	0.00	5028490.096	366600.077	11.25 HORIZONTAL BEND	69.77	67.28			
015	300+004.67	0.00	5028412.313	366678.467	300x300x150 TEE	69.96	67.36			
016	5+113.52	L-1.76	5028356.262	366470.072	300x300x150 TEE	77.18	74.55			
017	6+141.12	L-1.77	5028358.067	366475.444	300x300x150 TEE	77.15	74.50			
018	6+148.31	R-4.83	5028440.638	366454.179	VALVE AND VALVE BOX	76.29	73.68			
019	6+144.48	L-2.96	5028456.038	366449.830	300x300x150 TEE	76.19	73.70			
020	5+157.16	R-0.00	5028345.128	366512.033	VALVE AND VALVE BOX	76.21	73.79			
028	300									