

DATE: 2024-02-26

STORM DESIGN

STORM MAINTENANCE HOLE DATA

NO.	STATION	OFFSET	COVER	STRUCTURE	T/GRATE	INVERTS	NORTHING	EASTING
CBMHST 101	S+349.20	21.0E LT	SLF / S2B1	OPSD 701.010	74.42	74.40 W 72.84 NE 73.63 N	502870.11	366687.9032
CBMHST 103	S+284.42	29.34 LT	SLF / S2B1	OPSD 701.010	74.60	72.13 SE 72.10 NW 72.10 NW	502830.05	366595.208
CBMHST 104	S+320.41	26.30 LT	SLF / S2B1	OPSD 701.010	76.59	75.17 SE 75.10 NE 74.14 NW	502830.94	366700.0385
CBMHST 105	S+301.52	26.82 LT	SLF / S2B1	OPSD 701.010	74.82	72.43 SE 72.40 NW 72.40 NW	502831.37	366667.1579
CBMHST 208	S+193.48	55.08 RT	SLF / S2B1	OPSD 701.010	77.90	73.44 E 74.26 SW 75.14 N	502854.94	366621.8411
CBMHST 209	S+180.58	45.48 RT	SLF / S2B1	OPSD 701.010	76.69	73.35 E 74.26 SW 75.14 N	502856.82	366617.0433
MHST 1578	S+291.26	1.97 RT	SLF / S2A1	OPSD 701.014	74.44	69.07 NW 70.17 W 71.17 E	502859.55	366564.1187
MHST 200	S+230.43	1.97 RT	SLF / S2A1	OPSD 701.013	74.96	70.17 W 71.17 E	502853.78	366465.7864
MHST 201	S+251.75	1.96 RT	SLF / S2A1	OPSD 701.014	74.96	70.07 SW 71.17 E	502855.07	366465.8733
MHST 203	68+006.49	0.05 LT	SLF / S2A1	OPSD 701.010	78.81	73.19 S 73.11 NE	502851.98	366572.3839
MHST 204	68+006.63	0.00 T	SLF / S2A1	OPSD 701.010	78.87	73.19 S 73.11 NE	502854.13	366560.1804
MHST 205	68+014.91	0.02 LT	SLF / S2A1	OPSD 701.010	78.23	73.09 SW 73.09 SW 72.94 NE	502855.93	366579.8486
MHST 206	68+043.87	0.01 LT	SLF / S2A1	OPSD 701.010	75.77	72.1 S 72.1 N	502830.49	366593.4509
MHST 211	20+154.79	96.65 RT	SLF / S2A1	OPSD 701.010	70.26	68.46 NW 69.31 N	502832.74	366655.2387
MHST 212	59+131.95	0.00 T	SLF / S2A1	OPSD 701.011	70.30	67.85 SW 67.85 N	502840.82	366724.1488
MHST 213	59+004.50	0.00 RT	SLF / S2A1	OPSD 701.010	70.20	68.61 W 68.54 E	502840.91	366648.5048
MHST 214	59+056.25	0.02 RT	SLF / S2A1	OPSD 701.011	70.30	68.47 W 68.19 N	502841.00	366667.5648
MHST 218	54+016.14	0.00 T	SLF / S2A1	OPSD 701.010	75.08	73.88 N 71.98 N 71.53 W	502835.96	366529.7140
MHST 219	S+282.20	13.78 LT	SLF / S2A1	OPSD 701.010	74.73	71.98 NE 71.98 N 66.92 W	502834.65	366541.4731
MHST 221	70+002	0.00 T	SLF / S2A1	OPSD 701.010	69.78	66.82 SW 67.22 NW 66.92 W	502848.09	366701.5507

STORM MAINTENANCE HOLE DATA

NO.	STATION	OFFSET	COVER	STRUCTURE	T/GRATE	INVERTS	NORTHING	EASTING
MHST 222	S+305.47	1.44 RT	SLF / S2B1	OPSD 701.014	70.02	67.65 W 67.65 SE 67.65 SE	502855.81	366747.3164
MHST 223	20+196.73	29.49 RT	SLF / S2B1	OPSD 701.014	70.11	67.60 W 67.60 SW 67.60 SW	502856.70	366758.9170
OGS 3A	S+311.41	6.86 RT	SLF / S2B1	OPSD 701.015	70.49	67.64 NW 67.61 NE	502856.39	366754.1369
OGS 3B	S+311.35	1.38 RT	SLF / S2B1	OPSD 701.015	70.01	67.64 NW 67.61 NE	502859.80	366753.1167
OGS 3C	S+311.30	4.10 LT	SLF / S2B1	OPSD 701.015	69.53	67.64 NW 67.61 NE	502856.20	366752.1985
PUMPING STATION	S+014.83	0.00 T	Standard	2.00mm CULVERTICAL STRUCTURE	69.80	66.42 SW 68.51 NE	502846.96	366710.9673

STORM PIPE DATA

FROM	TO	DIA (mm)	TYPE	LENGTH (m)	SLOPE	UPSTR	DOWNSTR
TD 02	MHST 221	300	PVC SDR-35	14.81	1.06%	67.87	67.72
TD 01	MHST 221	200	PVC SDR-35	75.52	1.06%	67.42	66.62
TD 01	MHST 219	375	PVC SDR-35	16.27	0.65%	72.07	71.96
TD 01	MHST 101	900	CONC	3.12	0.64%	74.08	74.06
TOA OUTLET	MHST 201	900	CONC	7.42	0.77%	70.13	70.07
TMB OUTLET	AW MHST 150	900	CONC	8.4	0.10%	69.91	69.90
BRIDGE CONNECTION 1	PIPE	250	PVC SDR-35	13.61	0.50%	72.79	72.72
BRIDGE CONNECTION 2	PIPE	150	PVC SDR-35	11.41	0.50%	72.56	72.50
BRIDGE CONNECTION 3	PIPE	150	PVC SDR-35	7.94	0.50%	64.96	64.92
BRIDGE CONNECTION 4	PIPE	150	PVC SDR-35	18.95	0.50%	65.01	64.92
CAP 001	MHST 219	450	CONC	9.34	2.00%	72.15	71.96
CBMHST 103	102 INLET	375	PVC SDR-35	48.02	2.50%	73.63	72.43
CBMHST 104	CBMHST 101	300	PVC SDR-35	2.58	1.00%	72.10	72.07
CBMHST 105	CBMHST 103	375	PVC SDR-35	15.14	2.00%	74.14	73.84
CBMHST 208	CBMHST 206	375	PVC SDR-35	17.58	1.55%	72.40	72.13
CBMHST 209	CBMHST 208	375	PVC SDR-35	19.48	0.31%	73.41	73.35
CBMHST 200	MHST 206	375	PVC SDR-35	28.89	0.40%	73.32	73.21
CUP 1	PIPE	375	PVC SDR-35	5.45	2.00%	73.00	73.39
CUP 2	PIPE	375	PVC SDR-35	5.53	2.00%	73.00	73.39
LD 106	LD 106	450	PERF HDPE	12.40	0.50%	68.35	68.29

STORM PIPE DATA

FROM	TO	DIA (mm)	TYPE	LENGTH (m)	SLOPE	UPSTR	DOWNSTR
LD 106	LD 107	450	PERF HDPE	42.17	0.30%	68.29	68.15
LD 107	LD 108	450	PERF HDPE	16.70	0.30%	68.16	68.11
LD 108	LD 109	300	PERF HDPE	12.29	0.30%	67.68	67.64
LD 109	LD 110	300	PERF HDPE	12.90	0.33%	67.64	67.60
LD 110	LD 111	300	PERF HDPE	4.71	0.33%	67.60	67.58
MECH CONNECTION 1	MECH CONNECTION 4	375	PVC SDR-35	15.81	1.00%	73.97	73.81
MECH CONNECTION 2	MECH CONNECTION 3	375	PVC SDR-35	16.19	1.60%	73.97	73.71
MECH CONNECTION 3	MECH CONNECTION 5	300	PVC SDR-35	5.90	0.65%	73.88	73.84
MECH CONNECTION 4	MECH CONNECTION 6	450	CONC	11.66	1.21%	73.91	73.77
MECH CONNECTION 5	MECH CONNECTION 6	450	CONC	7.27	0.10%	67.94	67.95
MECH CONNECTION 6	MHST 216	450	CONC	12.97	1.00%	74.11	73.98
MECH CONNECTION 7	MHST 203	525	PVC SDR-35	5.00	1.00%	73.24	73.19
MECH CONNECTION 8	MHST 204	450	CONC	5.00	1.00%	73.24	73.19
MECH CONNECTION 9	CBMHST 208	375	PVC SDR-35	8.89	4.00%	73.80	73.44
MECH CONNECTION 10	AW MHST 141	375	PVC SDR-35	12.53	0.25%	73.13	73.09
MECH CONNECTION 11	AW MHST 146	300	PVC SDR-35	4.50	0.60%	71.42	71.40
MECH CONNECTION 12	PIPE	400	CONC	5.20	0.83%	70.84	70.80
MECH CONNECTION 13	MHST 212	825	CONC	2.93	0.10%	67.90	67.95
MECH CONNECTION 14	MHST 213	450	CONC	7.07	4.00%	68.74	68.61
MECH CONNECTION 15	MHST 211	375	PVC SDR-35	5.47	1.00%	68.51	68.46
MHST 1578	104B INLET	900	CONC	9.21	0.65%	69.97	69.91

STORM PIPE DATA

FROM	TO	DIA (mm)	TYPE	LENGTH (m)	SLOPE	UPSTR	DOWNSTR
MHST 200	104A INLET	900	CONC	6.87	0.58%	70.17	70.13
MHST 203	MHST 205	675	CONC	6.41	0.25%	73.11	73.09
MHST 204	MHST 205	525	CONC	12.94	0.16%	73.11	73.09
MHST 205	MHST 206	675	CONC	28.96	0.11%	72.94	72.91
MHST 206	MECH CONNECTION 25	675	CONC	3.88	0.83%	72.91	72.87
MHST 211	MECH CONNECTION 23	525	CONC	43.98	0.16%	68.31	68.24
MHST 212	AW MHST 150	825	CONC	74.52	0.10%	67.95	67.88
MHST 213	MHST 214	525	CONC	51.77	0.24%	68.54	68.41
MHST 214	MECH CONNECTION 20	750	CONC	37.47	0.11%	68.19	68.15
MHST 216	MECH CONNECTION 11	450	CONC	18.21	2.22%	73.95	73.91
MHST 219	AW MHST 150	300	PVC SDR-35	13.45	1.00%	71.93	71.80
MHST 221	PUMPING STATION	300	PVC SDR-35	12.93	1.58%	66.62	66.42
MHST 222	OGS 3A	600	CONC	8.04	0.15%	67.65	67.64
MHST 222	OGS 3B	600	CONC	8.04	0.15%	67.65	67.64
OGS 3A	MHST 223	600	CONC	8.04	0.15%	67.61	67.60
OGS 3B	MHST 223	600	CONC	8.04	0.15%	67.61	67.60
OGS 3C	MHST 223	600	CONC	8.04	0.15%	67.61	67.60
PUMPING STATION	V8 01	200	Non-Recycled PVC SDR-35 PRESSURE PIPE	3.17	0.71%	68.51	68.49

INLET CONTROL DEVICE DATA

ID	NAME	ICD Type	Size (m)	Discharge Coefficient	Inlet Elev (m)	Contributing Area (ha)	Contributing Imp. Area (ha)
ICD 102	Orifice Plate	0.1	0.62	71.93	2.721	1.463	
ICD 103	Orifice Plate	0.15	0.62	74.38	13.862	6.176	
ICD 104	Rectangular	1.5 x 1.5	0.62	76.45	13.862	6.176	
ICD 105	Orifice Plate	0.15	0.62	69.9	22.841	11.542	
ICD 106	Orifice Plate	0.15	0.62	71.37	22.841	11.542	
ICD 107	Orifice Plate	0.15	0.62	69.32	23.098	13.106	
ICD 108	HydroVex	200 VHW-2	78.2	0.817	0.954		
ICD 109	HydroVex	100 VHW-1	67.84	0.968	1.46		
ICD 110	Transverse	1.5 x 1.5	1.65	70.17	19.249	9.924	
ICD 111	Orifice Plate	0.3	0.62	67.85	1.408	1.338	
ICD 112	Orifice Plate	0.3	0.62	70.14	1.965	1.208	
ICD 113	Orifice Plate	0.225	0.62	71.42	0.637	0.636	
ICD 114	Orifice Plate	0.225	0.62	73.03	0.663	0.439	

TRENCH DRAINAGE

NO.	NAME	STRUCTURE	T/G	NORTHING	EASTING
TD01	EGFLOREN LIGHT C250R EQUIVALENT	70.29	68.60		
TD02	EGFLOREN C250R EQUIVALENT	69.10	67.82		
TD03	EGFLOREN C250R EQUIVALENT	69.09	67.87		
TD04	EGFLOREN LIGHT C250R EQUIVALENT	74.73	REFERTO MEDIAN		
TD05	EGFLOREN LIGHT C250R EQUIVALENT	74.73	REFERTO MEDIAN		

AREA DRAIN DATA

NO.	GRATE	STRUCTURE	T/G	NORTHING	EASTING
AD01	2ft x 2ft SQUARE GRATE	HYDROLAST 3212ASG DRAIN BASIN OR EQUIVALENT	79.51	502859.50	366511.38
AD02	2ft x 2ft SQUARE GRATE	HYDROLAST 3212ASG DRAIN BASIN OR EQUIVALENT	79.67	502858.63	366595.36
AD03	2ft x 2ft SQUARE GRATE	HYDROLAST 3212ASG DRAIN BASIN OR EQUIVALENT	79.82	502851.56	366520.01
AD04	2ft x 2ft SQUARE GRATE	HYDROLAST 3212ASG DRAIN BASIN OR EQUIVALENT	79.80	502851.69	366597.39
AD05	2ft x 2ft SQUARE GRATE	HYDROLAST 3212ASG DRAIN BASIN OR EQUIVALENT	79.70	502858.15	366551.54
AD06	2ft x 2ft SQUARE GRATE	HYDROLAST 3212ASG DRAIN BASIN OR EQUIVALENT	79.67	502825.77	366534.00
AD07	H-10 RATED PEDESTRIAN AREA DRAIN WITH H/D RATE GRATE	HYDROLAST 2712AG_X 3212ASG DRAIN BASIN OR EQUIVALENT	74.25	502867.33	366565.17
AD08	H-10 RATED PEDESTRIAN AREA DRAIN WITH H/D RATE GRATE	HYDROLAST 2712AG_X 3212ASG DRAIN BASIN OR EQUIVALENT	74.25	502837.12	366543.48
AD09	H-10 RATED PEDESTRIAN AREA DRAIN WITH H/D RATE GRATE	HYDROLAST 2712AG_X 3212ASG DRAIN BASIN OR EQUIVALENT	74.25	502863.26	366543.32

CROSSING TABLE

Crossing	T/G	Top Pipe (m)	Bottom Pipe (m)	Clearance (m)
1	70.13	STM BOT	68.45 SAN TOP	67.80 0.54
2	69.68	STM BOT	67.00 WM TOP	66.50 0.30
3	69.91	SAN BOT	67.23 WM TOP	66.50 0.73
4	69.36	SAN BOT	67.50 STM TOP	67.45 0.45
5	69.83	SAN BOT	67.78 STM TOP	67.10 0.69
6	69.64	SAN BOT	68.99 WM TOP	68.40 0.50
7	69.75	STM BOT	68.16 WM TOP	67.99 0.78
8	69.81	STM BOT	68.16 SAN TOP	67.13 1.04
9	69.83	STM BOT	68.17 STM TOP	68.69 1.30
10	70.06	ELEC BOT	73.85 WM TOP	69.53 4.32
12	69.97	STM BOT	67.82 WM TOP	67.28 0.54
13	70.03	STM BOT	67.81 SAN TOP	69.99 0.82
14	70.09	STM BOT	67.81 WM TOP	67.31 0.30
15	70.34	ELEC BOT	73.73 WM TOP	72.40 1.24
16	70.45	STM BOT	67.84 WM TOP	67.29 0.64
17	70.04	WM BOT	67.18 SAN TOP	66.91 0.27
19	70.18	ELEC BOT	69.22 SAN TOP	66.75 2.46