



STORM SEWER COMPUTATION SHEET

SHT
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Project: **Amlin Area Infrastructure Improvements**
 Job No.: **2020-0219**
 Intensity Reference: Franklin County

Date: 11/18/20
 By: JAF
 Checked:

Revised:
 Revised:

10 Yr Design Storm n= 0.012

Struc.	Struc. Index	Sta.	Drainage Area				Time		Intensity in/hr	Des Q CFS	Length ft.	Dia. In	Slope%	Vel	Cap. Flowing Full	Status	In	Out	TC	Remarks	25 YEAR HYDRAULIC GRADE LINE					
			Trib	Cumul.	C	Cumul CA	Delta t Min.	Sum t Min.													25 Yr Rainfall Intensity	Discharge Q	Slope %	Minor Losses	25 Yr HGL w/ minor losses	
12	CB11	11+85.95	0.02	0.02	0.73		10.00	10.00	5.24	0.08						936.74		942.35		4.44 ft. cover 5.61 ft. depth	5.91	0.09	0.0005	0.0001	940.14	
		Catch Basin 12" Diameter AA-S130	0.00		0.73	0.01					10.77	12	0.10%	1.6	1.2	OK										ok
11	MH7	11+75.18	0.00	0.02	0.73		0.12	10.12	5.21	0.08						936.23	936.73	942.85	0.50	DROP	4.91 ft. cover 6.62 ft. depth	5.89	0.09	0.0001	0.0000	940.14
		Manhole No. 3 ODOT MH-1.2	0.00		0.73	0.01					96.80	18	0.10%	2.0	3.6	OK										ok
10	MH7	10+78.38	0.00	0.18	0.73		0.79	10.91	5.05	0.65						936.03	936.13	942.37	0.10	DROP	4.53 ft. cover 6.34 ft. depth	5.72	0.73	0.0041	0.0005	940.14
		Manhole No. 3 ODOT MH-1.2	0.16		0.71	0.13					113.04	18	0.10%	2.0	3.6	OK										ok
9	MH7	9+65.34	0.00	0.28	0.73		0.92	11.83	4.87	1.00						935.82	935.92	942.59	0.10	DROP	4.96 ft. cover 6.77 ft. depth	5.53	1.13	0.0099	0.0013	940.14
		Manhole No. 3 ODOT MH-1.2	0.10		0.77	0.21					34.15	18	0.10%	2.0	3.6	OK										ok
8	MH7	9+31.19	0.00	1.71	0.73		0.28	12.11	4.82	5.13						935.69	935.79	942.43	0.10	DROP	4.93 ft. cover 6.74 ft. depth	5.48	5.82	0.2603	0.0337	940.13
		Manhole No. 3 ODOT MH-1.2	1.43		0.60	1.06					103.64	18	0.10%	2.0	3.6	Problem										ok
7	MH7	8+27.55	0.00	1.84	0.73		0.85	12.95	4.67	8.17						935.09	935.59	941.96	0.50	DROP	4.62 ft. cover 6.87 ft. depth	5.32	6.22	0.0641	0.0122	939.83
		Manhole No. 3 ODOT MH-1.2	0.13		0.82	1.17					2.70	167.10	24	0.10%	2.5	7.8	Problem									ok
6	MH7	6+60.45	0.00	2.05	0.73		1.13	14.08	4.49	8.71						934.82	934.92	941.14	0.10	DROP	3.97 ft. cover 6.32 ft. depth	5.13	6.86	0.0779	0.0148	939.71
		Manhole No. 3 ODOT MH-1.2	0.21		0.80	1.34					221.18	24	0.10%	2.5	7.8	Problem										ok
5	MH7	4+39.27	0.00	2.05	0.73		1.49	15.57	4.28	8.42						934.50	934.60	940.91	0.10	DROP	4.06 ft. cover 6.41 ft. depth	4.90	6.55	0.0710	0.0135	939.52
		Manhole No. 3 ODOT MH-1.2	0.00		0.73	1.34					123.77	24	0.10%	2.5	7.8	Problem										ok
4	MH7	3+15.50	0.00	2.66	0.73		0.83	16.40	4.17	10.09						934.28	934.38	940.42	0.10	DROP	3.79 ft. cover 6.14 ft. depth	4.78	8.47	0.1188	0.0226	939.42
		Manhole No. 3 ODOT MH-1.2	0.61		0.72	1.77					122.31	24	0.10%	2.5	7.8	Problem										ok
3	MH7	1+93.19	0.00	3.05	0.73		0.82	17.23	4.06	11.03						934.06	934.16	940.91	0.10	DROP	4.50 ft. cover 6.85 ft. depth	4.66	9.56	0.1515	0.0288	939.26
		Manhole No. 3 ODOT MH-1.2	0.39		0.71	2.05					143.22	24	0.10%	2.5	7.8	Problem										ok
2	CB8	0+49.97	0.00	3.05	0.53		0.97	18.19	3.95	10.80						933.82	933.92	942.11	0.10	DROP	5.94 ft. cover 8.29 ft. depth	4.54	9.31	0.1435	0.1159	939.01
		Catch Basin 2-3 ODOT CB-1.2	0.00		0.53	2.05					49.97	24	0.10%	2.5	7.8	Problem										ok
1	MH7	0+00.00	1.47	4.70	0.53		0.34	18.53	3.91	14.18						933.67	933.77	941.97	0.10	DROP	5.95 ft. cover 8.30 ft. depth	4.50	13.21	3.5426	1.0791	938.82
		Manhole No. 3 ODOT MH-1.2	0.18		0.59	2.94					100.00	15	0.20%	2.6	3.1	Problem		933.69								ok
1a		0+00.00	0.00	4.70	0.53		0.65	19.18	3.84	13.97						933.20	933.27	941.00	0.10	DROP	6.29 ft. cover 7.80 ft. depth	4.42	12.98	3.4209	0.0000	934.20
			0.00		0.53	2.94					100.00	15	0.20%	2.6	3.1	Problem										ok

