
















Appendix B: Drainage Structure Inventory, May 2022

ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
1	Pipe	37.81666	-83.71389	30"	34'	Concrete		Replace	10% blocked at the inlet. Minor misalignment of the sections. Abrasion is exposing aggregate along the flow line. There is erosion at each end and local scour at the outlet.
2	Pipe	37.81668	-83.71337	16"	40'	Steel		Clean	The ends need cleaned out, 50% blocked at inlet and 5% blocked at outlet
3	Arch	37.81576	-83.70833	12'	36'	Aluminum		Clean	Approximately 12' aluminum arch, 2'4" of clearance at the Centerline of the stream. Erosion around the inlet is encroaching the pavement. Drainage ditch is eroding around the outlet end. Structure is in good condition.
4	Pipe	37.81419	-83.70390	24"	42'	Concrete		Clean	The inlet end is obstructed but the pipe is open, the segments are mis-aligned, Recommend re-aligning upstream end and cleaning up debris.
5	Pipe	37.81408	-83.70094	18"	33'	Concrete		Clean	There is erosion at the inlet end, outlet is 50% filled and needs cleaned.



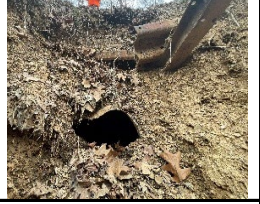

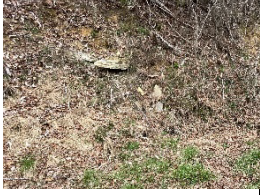
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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
6	Pipe	37.81377	-83.69947	18"	35'	Plastic		None	There is scour around outlet. Stream bank is eroding the edge of pavement at the outlet end. There is minor damage to inlet end of the pipe.
7	Pipe	37.81375	-83.69792	18"	Appr. 34'	Steel		Clean	The outlet end is buried and cannot be seen. The inlet is proximately 10% filled with debris.
8	Pipe	37.81371	-83.69705	15"m 12"p	32'	Plastic/metal		Replace	There is erosion around the outlet end. Portions of the pipe have been replaced there is a 15" metal pipe at the outlet and a 12" plastic pipe at the inlet.
9	Pipe	37.81397	-83.69607	18"	33'	Metal		Replace	Pipe is crushing at the inlet end. The pipe is 15% filled with sediment. There is minor erosion at the outlet end.
10	Pipe	37.81432	-83.69533	24"	32'	Metal		Clean	The inlet end is damaged and the pipe is 50% filled with sediment. There is debris blocking the outlet end as well as some minor erosion.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
11	Pipe	37.81544	-83.69280	24"	42'	Plastic		None	The pipe is in good condition. There is minimum fill over top, possibly less than 1 foot.
12	Pipe	37.81563	-83.69153	36"	33'	Plastic		None	Good condition. There is minor local scour at outlet.
13	Pipe	37.81641	-83.68915	24"	33'	Plastic		None	Good condition. Rip rap has been placed at the outlet end.
14	Pipe	37.81670	-83.68808	24"	45'	Concrete.		Repair Erosion	There is local scour at outlet. There is minor damage and erosion inlet.
15	Pipe	37.81685	-83.68678	16"	33'	Metal/ stone		Replace	Stone headwall at inlet. There is minor erosion above Inlet head wall. Cribbing has been placed above outlet pipe. Water is flowing through but cannot see through pipe.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
16	Pipe	37.81680	-83.68563	24"	60'	Metal		Replace	The pipe has rusted at outlet end. There is some scour at the outlet.
17	Pipe	37.81753	-83.67734	39"	52'	Metal		Repair Erosion	There is erosion at the outlet. There is some damage to the pipe at the inlet.
18	Pipe	37.81618	-83.67542	18"	40'	Metal		Replace	Inlet has a stone headwall but the pipe is buried. The outlet end is damaged with heavy erosion.
19	Natural drain	37.81693	-83.67410					Add	Natural drain. Needs a pipe on top of rock. The pavement has settlement due to a lack of drainage.
20	Natural drain	37.81694	-83.67227					Add	Needs drain






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
21	Pipe	37.81839	-83.66995	36"	42'	Metal		Repair Erosion	Inlet is in good condition. There is some Erosion/scour at the outlet.
22	Pipe	37.82094	-83.66588	24"	28.00'	Concrete. Metal		Replace	The inlet is a concrete pipe. The outlet is a metal pipe with corrosion along the flow line. There is some erosion/scour at outlet end.
23	Pipe	37.82589	-83.66147	30"	61.00'	Metal		Replace	The outlet is in good condition. There is minor erosion at the inlet. The pipes are slightly misaligned near the center line.
24	Pipe	37.83193	-83.66182	24"	55.00'	Metal		Replace	The flow line has some areas of rust thru at the inlet. 5' has rusted thru at outlet. There is erosion at the outlet.
25	Pipe	37.83363	-83.65860	24"	36.00'	Metal		Replace	The inlet has a stone headwall. The bottom has some rust thru at the inlet. 3' has rusted at outlet.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
26	Pipe	37.83341	-83.65599	18"	25.00'	Metal		Replace	The inlet has a stone headwall. The outlet is partially crushed.
27	Pipe sm culvert	37.83391	-83.65514	18"	60.00'	Metal		Replace	There is rust thru the pipe at the outlet. The outlet mostly blocked.
28	Pipe	37.83487	-83.65372	18"	32.00'	Metal		Replace	The inlet is blocked. There is some erosion at outlet. Both ends of the pipe have some damage.
29	Pipe	37.83513	-83.65304	18"	36.00'	Metal		Clean	Both the Inlet and outlet are blocked.
30	Stone masonry culvert	37.83561	-83.65131	3'x3'	54.00'	Stone masonry		Repair Erosion	There is some erosion below the bottom layer of stone outlet. Some spalling in the top of the culvert and local scour at outlet.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
31	Concrete pipe	37.83469	-83.64766	14"	25.00'	Concrete		Repair Erosion	There is some scour and erosion at the outlet. The inlet is partially blocked.
32	Pipe	37.83445	-83.64720	18"	60.00'	Metal		None	There is some erosion at outlet. Some minor damage to the inlet.
33	Stone masonry culvert	37.83420	-83.64711	8'x7'	37.00'	Stone masonry		None	There is a repair on the upstream left wing/barrel interface.
34	Stone masonry headwall. Metal pipe	37.83039	-83.64502	36"	42.00'	Stone masonry		Replace	The pipe is partially blocked at the inlet. There is moderate deterioration in the downstream half of the pipe and erosion at outlet.
35	Pipe	37.82924	-83.64453	36"	43.00'	Metal		Repair Erosion	The inlet is partially blocked and has some rust thru along the bottom.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
36	Pipe	37.82766	-83.64382	24"	41.00'	Metal		Replace	The outlet end has rusted thru. The inlet is partially blocked with some minor deterioration.
37	Pipe	37.82733	-83.64362	18"	32'	Metal		Clean/Repair Erosion	The inlet is blocked. There is erosion at the outlet. 5' at the outlet is exposed with bottom rusted thru.
38	Pipe w hw	37.82674	-83.64109	24"	41'	Metal		Replace	There is minor damage to the inlet. There is scour/erosion and the pipe is deteriorating at the outlet.
39	Pipe	37.82676	-83.63968	Unknown	24.00'	Metal		Clean	Inlet blocked. Outlet blocked
40	Pipe	37.82690	-83.63687	36"	95.00'	Metal		None	The inlet is partially blocked. There is some erosion at the outlet.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
41	Pipe	37.82718	-83.63416	30"	87.00'	Metal		Replace	The inlet has deterioration at end. 50% has silted in at the outlet.
42	Pipe	37.82689	-83.63239	18"	33.00'	Metal		Replace	The inlet and outlet is blocked.
43	Clogged pipe	37.82672	-83.62930	18"	25.00'	Metal		Replace	There is deterioration at outlet.
44	Needs new pipe	37.82563	-83.62924					Add	Needs pipe
45	Pipe	37.82491	-83.62856	18"	25.00'	Metal		Replace	There is erosion at the outlet. The U57dDrop box at inlet needs clean out






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
46	Pipe	37.82462	-83.62827	30"	42.00'	Metal		Clean/Repair Erosion	Erosion at outlet.
47	Pipe	37.82401	-83.62688	18"	32.00'	Metal		Replace	Outlet partially blocked. The drop box at the inlet needs cleaned. Bottom has rusted through.
48	Pipe	37.82449	-83.62622	et 15 conc	28.00'	Concrete steel inlet		Replace	There is some erosion at the outlet.
49	Unknown	37.82579	-83.62563	Unknown	32.00'	Metal		Replace	Needs replaced
50	Pipe	37.82616	-83.62558	18"	43.00'	Concrete		Clean	The inlet is blocked.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
51	Pipe	37.82809	-83.62518	18"	25.00'	Concrete		Replace	The inlet end is partially blocked. At the outlet the pavement is breaking away.
52	Unknown	37.82897	-83.62489		40.00'	Unknown		Clean	Inlet is blocked.
53	Metal pipe with headwall	37.82966	-83.62432	18"	32.00'	Metal		Replace	The inlet drop box needs cleaned, the bottom is rusting through. There is some erosion at the outlet causing some pavement damage.
54	Pipe	37.83045	-83.62347	30"	48.00'	Metal		None	The inlet is partially blocked. There is some erosion at the outlet. Cribbing has been installed.
55	Pipe	37.83285	-83.62200	24.00'	30.00'	Metal		Clean	The outlet is partially blocked with trees.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
56	Pipe w hw	37.83416	-83.62165	36"	80'	Metal		Replace	The inlet has filled in. The outlet where the pipe can be seen has moderate surface corrosion throughout. There is some erosion at outlet.
57	Pipe	37.83517	-83.62099	36"	80'	Metal		Clean	The inlet has filled in. There is sediment filling 40% of the outlet and you can't see thru the pipe.
58	Pipe	37.83578	-83.61887	18"	26'	Metal		Clean	The inlet is blocked. There is some erosion at the outlet.
59	Concrete	37.83605	-83.61750	4'x5'	62'	Masonry		Masonry repairs needed at the inlet.	Poor channel alignment at the inlet. Rebar is exposed at the inlet. There is some moderate deterioration of the stone at the inlet. Moderate deterioration at outlet. There is some debris inside barrel.
60	Pipe	37.83613	-83.61438	18"	32'	Plastic		Repair Erosion/Extend Pipe	6' of the pipe at the outlet end has broken off.




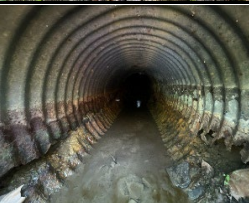

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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
61	Pipe	37.83556	-83.61262	18"	26'	Metal		Replace	The inlet is blocked.
62	Concrete	37.83536	-83.61199	18"	26'	Concrete		Replace	Both the Inlet and outlet are blocked.
63	Concrete	37.83568	-83.61089	18"	32'	Steel		Clean	The inlet is blocked. There is minor erosion at the outlet.
64	Pipe	37.83540	-83.60781	24"	50'	Metal		Clean/Masonry Repair at Inlet	Inlet headwall is missing.
65	Pipe	37.83479	-83.60727	24" inlet 36" outlet	63'	Metal		Replace	36" at outlet. Inlet is partially blocked.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
66	Pipe	37.83421	-83.60711	18"	35'	Metal		Replace	There is surface rust along the flowline.
67	Pipe w hw	37.83303	-83.60675	18"	26'	Metal		Replace	Outlet not found. The inlet is blocked.
68	Pipe	37.83245	-83.60490	18"	45'	Concrete		Clean	The inlet is blocked. The pipe sections are slightly misaligned.
70	Pipe w hw	37.83129	-83.60474	18.00'	24'	Metal		Replace	Inlet and outlet blocked. Part the outled end has fell off.
71	Pipe w hw	37.83061	-83.60517	18"	34'	Metal		Replace	The inlet is blocked. The outlet has been extended under cribbing. There is erosion along the flow line of the old sections of pipe.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
72	Pipe	37.82994	-83.60573	18"	36'	Metal		Replace	The inlet and outlet are blocked.
73	Pipe	37.83018	-83.60418	18"	28'	Metal		Replace	The inlet and outlet are blocked.
74	Concrete	37.83058	-83.60211	4'x3'	90'	Concrete		None	There is some abrasion along flow lines exposing some aggregate.
75	Pipe w hw	37.83005	-83.59943	32"	65'	Metal		Replace	The pipe has rusted thru at the inlet. 5' has rusted out at the outlet. There is erosion at the outlet.
76	Pipe	37.82976	#####	24"	60'	Metal		Clean	The inlet is 50% blocked. The outlet is 50% blocked.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
77	Pipe	37.82802	-83.59859	18"	40'	Metal		Clean	There is some scour and erosion at the outlet. The inlet is partially blocked. There is some corrosion in bottom along the flowline.
78	Concrete	37.82610	-83.59733	6'x4'	80'	Masonry		Masonry Repairs	The inlet is blocked with large logs. There is some exposed rebar inlet end. There is some abrasion along flow line. The inlet head wall has heavy spalling. The stone floor is washed out on each end. The deadwall is spalling at the outlet end.
79	Concrete	37.82460	-83.59730	4'x4'	75'	Concrete		Repair Erosion	There is some scour and undermining at the outlet end.
80	Pipe w hw	37.82369	-83.59759	18"	28'	Metal		Clean	The inlet and outlet are blocked.
81	Pipe w hw	37.82297	-83.59760	18"	30'	Metal		Replace	The inlet is partially blocked and has some rust thru along the flowline. There is some erosion at outlet and the pavement is breaking away.



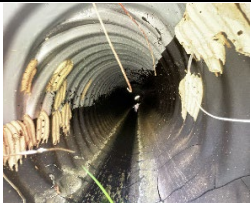


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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
82	Pipe w hw	37.82117	-83.59636	18"	30'	Metal		None	The inlet end has some corrosion in the flow line.
83	Pipe w hw	37.82077	-83.59540	24"	44'	Metal		Replace	The inlet end has some corrosion. The headwall at the inlet has washed out. The outlet end has 2' of the bottom rusted out.
84	Pipe w hw	37.82003	-83.59387	18"	40'	Metal		Clean	The inlet and outlet are blocked.
85	Pipe with headwall	37.81976	-83.59309	18"	40'	Metal		Replace	The inlet end is blocked and has some surface rust and damage. The bottom is rusted out at the outlet.
86	Pipe w hw	37.81961	-83.59161	18"	45'	Metal		Replace	The inlet and outlet are blocked. The bottom has rusted through






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
87	Pipe w hw	37.81900	-83.59008	24"	45'	Metal		None	The inlet is blocked and has minor damage.
88	Pipe w hw	37.81944	-83.58904	30"	45'	Metal		None	The inlet is partially blocked.
89	Pipe	37.81961	-83.58858	18"	32'	Metal		Replace	The inlet is blocked. The outlet has broken off and the pavement is breaking up.
90	Pipe w hw	37.82171	-83.58723	24"	38'	Metal		Clean/Masonry Repair	The headwall is damaged at the inlet. There is settlement over the pipe at the outlet that is encroaching the roadway.
91	Pipe w hw	37.82233	-83.58716	24"	50'	Metal		Replace	The inlet is partially blocked. There is moderate deterioration in the downstream half of the pipe and erosion at outlet. The bottom of the pipe has rusted out at the outlet.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
92	Pipe	37.82333	-83.58695	18"	40'	Metal		Replace	The inlet is blocked. The outlet has 6' of deterioration along the flowline.
93	Pipe	37.82364	-83.58703	24"	40'	Metal		Clean	The inlet is blocked. There is some minor erosion at the outlet.
94	Pipe	37.82500	-83.58668	24"	28'	Metal		Clean	The inlet is blocked.
95	Pipe	37.82566	-83.58581	18"	45'			Clean	The inlet and outlet are blocked. There is some erosion at outlet.
96	Pipe w hw	37.82577	-83.58534	24"	35'	Metal		Clean	The inlet is blocked.



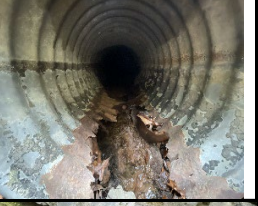


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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
97	Pipe w hw	37.82573	-83.58490	24"	50'	Metal		Clean	The inlet is partially blocked. There is moderate deterioration in the downstream half of the pipe and erosion at outlet.
98	Pipe w hw	37.82563	-83.58434	24"	40'	Metal		Clean/Masonry headwall repair	The inlet is partially blocked. The headwall is beginning to fail. The pipe is 75% blocked at the outlet.
99	Pipe w hw	37.82557	-83.58410	24"	40'	Metal		Clean	The inlet and outlet are blocked.
100	Pipe w hw	37.82544	-83.58343	18"	35'	Metal		Clean	The outlet is partially blocked. The drop box needs cleaned at the inlet.
101	Pipe w hw	37.82528	-83.58320	18"	35'	Metal		Clean/Masonry headwall repair	The inlet headwall is broken off. Both the inlet and outlet are blocked.






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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
102	Pipe w hw	37.82398	-83.58107	18"	45'	Metal		Clean	The inlet is partially blocked.
103	Pipe w hw stone masonry	37.82363	-83.58116	18"	42'	Metal		Clean/Repair Erosion	There is some erosion at the outlet.
104	Pipe w hw	37.82080	-83.58032	18"	38'	Metal		Replace	The inlet is blocked. There is some erosion and deterioration to the pipe at the outlet.
105	Pipe unknown	37.81785	-83.57764	18"	68'	Metal		Clean	The inlet and outlet are blocked.
106	Pipe w hw	37.81718	-83.57861	18"	50'	Metal		Replace	Some corrosion at the inlet and outlet ends. The inlet is partially blocked.

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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
107	Pipe w hw	37.81705	-83.57861	18"	50'	Metal		Replace	There is some corrosion at the inlet and outlet ends. The inlet is blocked.
108	Pipe	37.81508	-83.58091	18"	24'	Metal		Replace	The inlet and outlet are blocked.
109	Pipe	37.81508	-83.58175	18"	35'	Metal		Replace	The inlet is blocked. 5' of the outlet end has rusted thru.
110	Pipe w hw	37.81355	-83.58286	24"	42'	Metal		Replace	There is some corrosion at the inlet and outlet ends. The inlet is partially blocked.
111	Pipe	37.81177	-83.58484	36.00'	140'	Metal		None	New pipe

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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
112	Pipe w hw	37.81152	-83.58587	12"	24'	Metal		Clean	Inlet partially blocked.
113	Pipe w hw	37.81156	-83.58663	18"	30'	Metal		Clean	The inlet is blocked. There is some corrosion along the flowline of the pipe.
114	Pipe	37.81147	-83.58752	12"	30'	Metal		Clean	The inlet is blocked.
115	Pipe w hw	37.81076	-83.58839	18"	35'	Metal		Clean	The inlet is blocked.
116	Pipe	37.81061	-83.58855	12"	30'			Clean	The inlet is partially blocked.

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ID	Description	Latitude (N)	Longitude	Diameter	Length	Material	Photo	Recommendation	Inspection Notes
117	Pipe	37.81018	-83.58924	12"	20'	Metal		Clean/Extend	The inlet is blocked. The outlet need's extended.
118	Pipe w hw	37.80965	-83.58948	18"	30'	Metal		Clean	The inlet is blocked.
119	Pipe w hw	37.80953	-83.58971	18"	32'	Metal		Replace	The inlet is blocked. 3' of the outlet end has rust thru at the flowline.