North Wetland Drainage Improvement Alternative

FID	NAME	INLETNODE	InInvert	inRIM	OUTLETNO	OutInvert	outRIM	DESCRIPT	TAG	LENGTH	ROUGHNE	INOFFSET	US_inv	US depth	OUTOFFSI	DS inv	DS_depth	FLAPGATE	XSECTION	GEOM1	GEOM2	GEOM3	GEOM4	BARRELS	Proposed
0	Culv13-OF2	CulvUnk13	412.659	417.13	OF24	408.4	412.4	3 ft diamet		279.417	0.017	3.13	415.789	1.341	2.91	411.31	1.09	NO	CIRCULAR	0.75	0	0	0	1	Existing Culvert/Cleanout
1	D13b_1	CulvUnk13	408.5	412.875	Chn13b	412.659	417.13			137.864	0.028	3	411.5	1.375	0	412.659	4.471	NO	TRAPEZOID	4	3	1	3	1	Existing Ditch
2	D13b_2	Chn13b	408.5	412.875	OF24	408.4	412.4			155.12	0.028	0	408.5	4.375	2.7	411.1	1.3	NO	TRAPEZOID	4	3	1	3	1	Existing Ditch
3	D99	OF24	408.5	412.875	1167	408	415			416.144	0.03	0	408.5	4.375	0	408	7	NO	TRAPEZOID	5	5	3	3	1	New Ditch
4	DB1-B2	B1	408.5	412.875	OF50	411.13	411.13			317.652	0.028	0	408.5	4.375	0	411.13	0	NO	TRAPEZOID	4	4	3	1	1	Existing Ditch
5	DNDJ1-UNI	NDJ1	408.5	412.875	NDJ_UNK1	408.75	411.75			516.966	0.03	0	408.5	4.375	0	408.75	3	NO	TRAPEZOID	3	5	3	3	1	ND
6	NDNCO1-U	NCO1	408.7	411.81	NC_UNK8	408.974	411.974			650.673	0.03	0	408.7	3.11	0	408.974	3	NO	TRAPEZOID	2	4	3	3	1	New Ditch
7	NDNCO2-N	NCO2	408.7	411.81	NDJ1	408.763	411.763			975.376	0.03	0	408.7	3.11	0	408.763	3	NO	TRAPEZOID	3	5	3	3	1	ND
8	NDNDJ2-C	NDJ2	408.7	411.81	CulvUnk13	408.5	412.875			544.954	0.03	0	408.7	3.11	0	408.5	4.375	NO	TRAPEZOID	3	5	3	3	1	New Ditch
9	NDOF50-N	OF50	408.7	411.81	NCI9	409.674	413.14			346.914	0.03	0	408.7	3.11	0	409.674	3.466	NO	TRAPEZOID	4	5	3	3	1	New Ditch
10	NDUNK13-	NDJ_UNK13	408.7	411.81	NDJ2	408.7	411.81			625.53	0.03	0	408.7	3.11	0	408.7	3.11	NO	TRAPEZOID	3	5	3	3	1	ND
11	NPB1-NMH	B1	408.5	412.75	NMH2	408.7	412.95			68.122	0.017	0	408.5	4.25	0.6	409.3	3.65	NO	CIRCULAR	3	0	0	0	1	New
12	NPCulvUnk	CulvUnk13	408.5	412.75	NMH2	408.7	412.95			69.729	0.017	0.3	408.8	3.95	0	408.7	4.25	NO	ARCH	8	0	0	0	1	New Arch
13	NPNAI6-NC	NAI_UNK6	408.5	412.75	NCO1	409.1	411.311			225.264	0.017	0	408.5	4.25	0	409.1	2.211	NO	CIRCULAR	2	0	0	0	1	New
14	NPNC7-NA	NC_UNK7	408.5	412.75	NAI_UNK6	409.4	411.5			100.659	0.017	0	408.5	4.25	0	409.4	2.1	NO	CIRCULAR	2	0	0	0	1	New
15	NPNCI9-11	NCI9	408.5	412.75	1167	408	415			63.004	0.017	0	408.5	4.25	1.41	409.41	5.59	NO	CIRCULAR	3	0	0	0	1	New
16	NPNMH2-N	NMH2	408.5	412.75	NMH3	408.5	412.75			215.861	0.017	0	408.5	4.25	0	408.5	4.25	NO	ARCH	8	0	0	0	1	New Arch
17	NPNMH3-C	NMH3	408.5	412.75	OF24	408.4	412.4			40.986	0.017	0	408.5	4.25	0	408.4	4	NO	ARCH	8	0	0	0	1	New Arch
18	NPUNK8-N	NMH1	408.5	412.75	NCO2	408.8	411.8			786.828	0.017	0	408.5	4.25	0	408.8	3	NO	CIRCULAR	3	0	0	0	1	New
19	NPUNK8-N	NC_UNK8	408.5	412.75	NMH1	408.953	413.992			109.336	0.017	0	408.5	4.25	0	408.953	5.039	NO	CIRCULAR	3	0	0	0	1	New
20	P1167-116	1167	411.13	411.13	PS_1168	411.13	411.13	Unk Pipe si		320.337	0.035	0	411.13	0	0	411.13	0	YES	CIRCULAR	6	0	0	0	1	New

Trap	geom1	geom2	geom3
	depth	basewidth	side slope

ND means logical ditch through wetland. Ignore these in quantities.

255 and State Street Only Alternative

FID	NAME	INLETNODE	RIM_in	OUTLETNODE	RIM_out	DESCRIPT TAG	LENGTH	ROUGHNE	INOFFSET	depth_in_invert	OUTOFFSI	depth_out_invert	FLAPGATE	XSECTION	GEOM1	GEOM2	GEOM3	GEOM4	BARRELS	Proposed
0	C1	NMH4	417	NMH5	416.81		60.083	0.017	403.951	13.049	403.534	13.276	NO	CIRCULAR	4.5	0	0	0	1	New
1	C4	MI66	411.97	MI67	417.59		470.886	0.017	409.403	2.567	407.237	10.353	NO	CIRCULAR	2	0	0	0	1	
2	D3	CO1	415.59	CJ1	414.16		321.427	0.04	410.703	4.887	408.926	5.234	NO	IRREGULAR	0	0	0	0	1	Existing Channel
3	D4	CJ1	414.16	CLV3	413.667		159.173	0.04	408.926	5.234	408.045	5.622	NO	IRREGULAR	0	0	0	0	1	Existing Channel
4	D9	CO2	414.971	CLV3	413.667		102.489	0.04	411.211	3.76	408.045	5.622	NO	IRREGULAR	0	0	0	0	1	Existing Channel
5	NP1073-NMH2	1073	414	NMH2	413.91		53.076	0.017	409.5	4.5	408.8	5.11	NO	CIRCULAR	2	0	0	0	1	New
6	NP1079-NMH5	1079	416.123	NMH5	416.81	Split Pipe	62.225	0.01	407.873	8.25	403.534	13.276	NO	CIRCULAR	1.25	0	0	0	1	New
7	NP1091-NMH4	1091	416.34	NMH4	417		70.597	0.01	405.2	11.14	403.951	13.049	NO	CIRCULAR	3	0	0	0	1	New
8	NP1098-NMH1	1098	413.367	NMH1	414		32.575	0.01	409.539	3.828	408	6	NO	CIRCULAR	3	0	0	0	1	New
9	NP1101-NMH3	1101	414.462	NMH3	414.88		21.665	0.017	408.95	5.512	408.8	6.08	NO	CIRCULAR	3.5	0	0	0	1	New
10	NPMI61-NMH5	MI61	417	NMH5	416.81	Split pipe	56.227	0.01	407.912	9.088	403.534	13.276	NO	CIRCULAR	1.5	0	0	0	1	New
11	NPMI67-NMH6	MI67	417.59	NMH6	415.81		136.345	0.01	407.237	10.353	404.428	11.382	NO	CIRCULAR	2	0	0	0	1	New
12	NPNMH1-NMH2	NMH1	414	NMH2	413.91		45.323	0.017	408	6	407.2	6.71	NO	CIRCULAR	4	0	0	0	1	New
13	NPNMH2-NMH7	NMH2	413.91	NMH7	414.84		294.878	0.017	407.2	6.71	406.124	8.716	NO	CIRCULAR	4	0	0	0	1	New
14	NPNMH3-NMH1	NMH3	414.88	NMH1	414		330.328	0.017	408.8	6.08	408	6	NO	CIRCULAR	3.5	0	0	0	1	New
15	NPNMH5-NMH6	NMH5	416.81	NMH6	415.81		123.104	0.017	403.534	13.276	402.428	13.382	NO	CIRCULAR	4.5	0	0	0	1	New
16	NPNMH6-PS255	NMH6	415.81	PS255	414.84		270.108	0.017	402.428	13.382	400	14.84	NO	CIRCULAR	5	0	0	0	1	New
17	NPNMH7-NMH4	NMH7	414.84	NMH4	417		242.729	0.017	406.124	8.716	403.951	13.049	NO	CIRCULAR	4	0	0	0	1	New
18	P1057-1061	1057	415.42	1061	414.9		153.338	0.017	412.136	3.284	411.945	2.955	NO	CIRCULAR	1	0	0	0	1	
19	P1058-1057	1058	415.573	1057	415.42		28.837	0.017	412.116	3.457	412.091	3.329	NO	CIRCULAR	1	0	0	0	1	
20	P1059-1058	1059	415.801	1058	415.573		77.471	0.017	412.393	3.408	412.253	3.32	NO	CIRCULAR	1	0	0	0	1	
21	P1060-1059	1060	416.076	1059	415.801		65.475	0.017	412.813	3.263	412.602	3.199	NO	CIRCULAR	1	0	0	0	1	
22	P1061-1062	1061	414.9	1062	415.916		8.425	0.017	412.015	2.885	411.835	4.081	NO	CIRCULAR	1	0	0	0	1	
23	P1062-MI50	1062	415.916	MI50	415.72		177.809	0.017	411.837	4.079	411.359	4.361	NO	CIRCULAR	1.25	0	0	0	1	
24	P1063-MI50	1063	414.609	MI50	415.72		8.72	0.017	411.716	2.893	411.55	4.17	NO	CIRCULAR	1	0	0	0	1	
25	P1064-MI51	1064	414.466	MI51	415.28		9.058	0.017	411.596	2.87	411.42	3.86	NO	CIRCULAR	1	0	0	0	1	
26	P1065-MI52	1065	414.536	MI52	415.13		8.769	0.017	411.553	2.983	411.35	3.78	NO	CIRCULAR	1	0	0	0	1	
27	P1066-1072	1066	414.231	1072	415.057		7.532	0.017	411.538	2.693	411.3	3.757	NO	CIRCULAR	1	0	0	0	1	
28	P1067-MI53	1067	414.03	MI53	414.91		7.679	0.017	411.318	2.712	411.15	3.76	NO	CIRCULAR	1	0	0	0	1	
29	P1068-MI54	1068	413.915	MI54	414.63		7.454	0.017	411.067	2.848	410.9	3.73	NO	CIRCULAR	1	0	0	0	1	
30	P1069-MI55	1069	413.712	MI55	414.59		7.81	0.017	410.897	2.815	410.75	3.84	NO	CIRCULAR	1	0	0	0	1	
31	P1070-1071	1070	413.412	1071	414.24		8.145	0.017	410.645	2.767	410.477	3.763	NO	CIRCULAR	1	0	0	0	1	
32	P1071-MI56	1071	414.24	MI56	414.28		68.986	0.017	410.477	3.763	409.9	4.38	NO	CIRCULAR	2	0	0	0	1	New
33	P1072-MI53	1072	415.057	MI53	414.91		70.121	0.017	411.06	3.997	410.917	3.993	NO	CIRCULAR	1.5	0	0	0	1	
34	P1073-MI56	MI56	414.28	1073	414	Reverse Dir	9.669	0.017	409.65	4.63	409.5	4.5	NO	CIRCULAR	2	0	0	0	1	New
35	P1074-MI57	1074	412.919	MI57	414.31		11.635	0.017	410.579	2.34	410.35	3.96	NO	CIRCULAR	1	0	0	0	1	
36	P1075-MI58	1075	413.33	MI58	414.44		9.808	0.017	410.123	3.207	410.093	4.347	NO	CIRCULAR	1	0	0	0	1	
37	P1076-MI59	1076	413.613	MI59	414.69	Unk pipe.	9.196	0.017	410.561	3.052	410.513	4.177	NO	CIRCULAR	1	0	0	0	1	Clean Out
38	P1077-MI60	1077	414.966	MI60	415.94		8.797	0.017	408.813	6.153	408.7	7.24	NO	CIRCULAR	1.25	0	0	0	1	
39	P1078-1079	1078	415.42	1079	416.123		8.437	0.017	409.196	6.224	408.964	7.159	NO	CIRCULAR	1.25	0	0	0	1	
40	P1080-MI61	1080	416.158	MI61	417		12.627	0.017	408.456	7.702	408.21	8.79	NO	CIRCULAR	1.25	0	0	0	1	
41	P1081-MI62	1081	416.366	MI62	417.38		13.818	0.017	408.457	7.909	408.17	9.21	NO	CIRCULAR	1.25	0	0	0	1	
42	P1082-MI63	1082	416.865	MI63	417.38		16.845	0.017	407.967	8.898	407.959	9.421	NO	CIRCULAR	1.25	0	0	0	1	
43	P1083-MI64	1083	417.387	MI64	418.41		18.302	0.017	408.422	8.965	408.369	10.041	NO	CIRCULAR	1.25	0	0	0	1	
44	P1084-MI65	1084	418.312	MI65	419.09		21.322	0.017	407.678	10.634	407.69	11.4	NO	CIRCULAR	1.25	0	0	0	1	
45	P1087-1112	1087	417.877	1112	418.263		30.85	0.017	415.161	2.716	414.196	4.067	NO	CIRCULAR	1	0	0	0	1	
46	P1088-1112	1088	416.626	1112	418.263		53.611	0.017	414.017	2.609	413.276	4.987	NO	CIRCULAR	1	0	0	0	1	
47	P1089-1090	1089	417.414	1090	416.77		86.143	0.017	414.069	3.345	413.877	2.893	NO	CIRCULAR	1	0	0	0	1	
48	P1090-1091	1090	416.77	1091	416.34		73.881	0.017	413.726	3.044	411.533	4.807	NO	CIRCULAR	1	0	0	0	1	
49	P1091-MI96	MI96	413.22	1091	416.34	Reverse Dir	104.255	0.017	405.941	7.279	405.2	11.14	NO	CIRCULAR	3	0	0	0	1	New
50	P1092-1091	1092	414.94	1091	416.34		106.497	0.017	411.858	3.082	411.65	4.69	NO	CIRCULAR	1	0	0	0	1	
51	P1093-1092	1093	414.9	1092	414.94		98.326	0.017	412.318	2.582	412.028	2.912	NO	CIRCULAR	1	0	0	0	1	
52	P1094-1095	1094	413.688	1095	413.366		75.679	0.017	410.763	2.925	410.501	2.865	NO	CIRCULAR	1	0	0	0	1	
53	P1095-1096	1095	413.366	1096	413.028		50.108	0.017	410.552	2.814	410.513	2.515	NO	CIRCULAR	1	0	0	0	1	
54	P1096-1097	1096	413.028	1097	413.173		33.834	0.017	410.617	2.411	410.55	2.623	NO	CIRCULAR	1	0	0	0	1	
55	P1097-1098	1097	413.173	1098	413.367		62.496	0.017	410.584	2.589	409.687	3.68	NO	CIRCULAR	1	0	0	0	1	
56	P1099-MI96	1099	412.667	MI96	413.22		702.135	0.017	406.85	5.817	405.941	7.279	NO	CIRCULAR	3	0	0	0	1	
57	P1100-1099	1100	411.519	1099	412.667		102.717	0.017	407.743	3.776	407.744	4.923	NO	CIRCULAR	3	0	0	0	1	
58	P1102-1101	1102	414.564	1101	414.462		67.62	0.017	409.3	5.264	408.95	5.512	NO	CIRCULAR	3.5	0	0	0	1	New
59	P1103-1102	1103	414.785	1102	414.564		88.42	0.017	409.5	5.285	409.3	5.264	NO	CIRCULAR	3	0	0	0	1	New
60	P1104-1103	1104	415.068	1103	414.785		73.894	0.017	409.7	5.368	409.5	5.285	NO	CIRCULAR	3	0	0	0	1	New
61	P1105-1104	1105	415.231	1104	415.068		29.935	0.017	409.8	5.431	409.7	5.368	NO	CIRCULAR	3	0	0	0	1	New
62	P1106-1105	1106	415.071	1105	415.231	1 ft pipe siz	18.539	0.017	410.86	4.211	409.804	5.427	NO	CIRCULAR	1	0	0	0	1	New
63	P1107-1106	1107	415.112	1106	415.071	inlet 1106 :	51.022	0.017	412.844	2.268	410.88	4.191	NO	CIRCULAR	1	0	0	0	1	New
64	P1108-1107	1108	415.189	1107	415.112		47.323	0.017	413.204	1.985	412.876	2.236	NO	CIRCULAR	1	0	0	0	1	
65	P1109-1108	1109	415.652	1108	415.189	1 ft pipe siz	121.8	0.017	413.253	2.399	413.204	1.985	NO	CIRCULAR	1	0	0	0	1	Clean Out

66	P1110-1109	1110	415.616	1109	415.652	1 ft clay pip	103.856	0.017	413.396	2.22	413.264	2.388	NO	CIRCULAR	1	0	0	0	1	Clean Out
67	P1113-MI96	1113	412.243	MI96	413.22		34.732	0.017	407.086	5.157	405.941	7.279	NO	CIRCULAR	3	0	0	0	1	
68	P1160-MI98	1160	413.055	MI98	415.06		180.349	0.017	410.4	2.655	410.1	4.96	NO	ARCH	6	0	0	0	1	New
69	P1161-1160	1161	413.001	1160	413.055		27.902	0.017	411.325	1.676	411.168	1.887	NO	CIRCULAR	1.25	0	0	0	1	New
70	P1162-1163	1162	412.798	1163	412.904		20.428	0.017	411.608	1.19	411.589	1.315	NO	CIRCULAR	1.25	0	0	0	1	
71	P1163-1160	1163	412.904	1160	413.055		275.776	0.017	410.6	2.304	410.4	2.655	NO	ARCH	5	0	0	0	1	New
72	P1164-1163	1164	412.939	1163	412.904		29.589	0.017	411	1.939	410.6	2.304	NO	CIRCULAR	1.5	0	0	0	1	New
73	PCLV3-1099	CLV3	413.667	1099	412.667		257.295	0.017	408.045	5.622	407.675	4.992	NO	CIRCULAR	3	0	0	0	1	
74	PMI50-MI51	MI50	415.72	MI51	415.28		48.958	0.017	411.359	4.361	411.227	4.053	NO	CIRCULAR	1.25	0	0	0	1	
75	PMI51-MI52	MI51	415.28	MI52	415.13		60.29	0.017	411.227	4.053	411.065	4.065	NO	CIRCULAR	1.25	0	0	0	1	
76	PMI53-MI54	MI53	414.91	MI54	414.63		62.503	0.017	410.917	3.993	410.79	3.84	NO	CIRCULAR	1.5	0	0	0	1	
77	PMI54-MI55	MI54	414.63	MI55	414.59		65.211	0.017	410.79	3.84	410.657	3.933	NO	CIRCULAR	1.5	0	0	0	1	
78	PMI55-1071	MI55	414.59	1071	414.24		69.313	0.017	410.657	3.933	410.516	3.724	NO	CIRCULAR	2	0	0	0	1	New
79	PMI56-MI57	MI57	414.31	MI56	414.28		46.635	0.017	409.919	4.391	409.776	4.504	NO	CIRCULAR	1.25	0	0	0	1	
80	PMI57-MI58	MI58	414.44	MI57	414.31		56.868	0.017	410.093	4.347	409.919	4.391	NO	CIRCULAR	1.25	0	0	0	1	
81	PMI58-MI59	MI59	414.69	MI58	414.44		80	0.017	410.513	4.177	410.093	4.347	NO	CIRCULAR	1.25	0	0	0	1	
82	PMI60-1079	MI60	415.94	1079	416.123		68.495	0.017	408.7	7.24	407.992	8.131	NO	CIRCULAR	1.25	0	0	0	1	
83	PMI61-MI62	MI62	417.38	MI61	417	Assume 1.5	33.81	0.017	407.929	9.451	407.912	9.088	NO	CIRCULAR	1.5	0	0	0	1	
84	PMI62-MI63	MI63	417.38	MI62	417.38	Assume 1.5	63.589	0.017	407.959	9.421	407.929	9.451	NO	CIRCULAR	1.5	0	0	0	1	
85	PMI63-1072	MI52	415.13	1072	415.057		42.333	0.017	411.065	4.065	410.951	4.106	NO	CIRCULAR	1.25	0	0	0	1	
86	PMI63-MI64	MI64	418.41	MI63	417.38	Assume 1.2	72.156	0.017	407.822	10.588	407.959	9.421	NO	CIRCULAR	1.25	0	0	0	1	
87	PMI64-MI65	MI65	419.09	MI64	418.41	Assume 1.2	67.076	0.017	407.69	11.4	407.822	10.588	NO	CIRCULAR	1.25	0	0	0	1	
88	PMI96-1112	1112	418.263	MI96	413.22	Reverse Dir	197.689	0.017	408.5	9.763	407.5	5.72	NO	CIRCULAR	3.5	0	0	0	1	New
89	PMI98-1105	MI98	415.06	1105	415.231		142.55	0.017	410.1	4.96	409.8	5.431	NO	CIRCULAR	2.5	0	0	0	1	New

255 with Additional Lines Alternative

255_State	name	inletNode	RIM Elev In	OutletNoc	RIM Elev Out	Desc	255_State	Length	n	in_elev	in_depth	out_elev	out_depth	flapgate	xsection	geom1	geom2	geom3	geom4	noOfBarrels	Proposed
0	C1	NMH4	417	NMH5	416.81			60.083	0.017	402	15	401.6	15.21	NO	CIRCULAR	6	0	0	0	1	New
1	C2	1155	413.202	1157	412.624	Reverse Dir.		748.279	0.01	407.6	5.602	406.4	6.224	NO	CIRCULAR	3.5	0	0	0	1	New
2	C4	MI66	411.97	MI67	417.59			470.886	0.017	409.403	2.567	407.237	10.353	NO	CIRCULAR	2	0	0	0	1	
3	C5	1111	416.097	NMH14	416.78			56.463	0.017	412.499	3.598	409.7	7.08	NO	CIRCULAR	1	0	0	0	1	New
4	D3	CO1	415.59	CJ1	414.16			321.427	0.04	410.703	4.887	408.926	5.234	NO	IRREGULAR	0	0	0	0	1	Unchanged Ditch
5	D4	CJ1	414.16	CLV3	413.667			159.173	0.04	408.926	5.234	408.045	5.622	NO	IRREGULAR	0	0	0	0	1	Unchanged Ditch
6	D9	CO2	414.971	CLV3	413.667			102.489	0.04	411.211	3.76	408.045	5.622	NO	IRREGULAR	0	0	0	0	1	Unchanged Ditch
7	NP1073-NMH2	1073	414	NMH2	413.91			53.076	0.017	409.5	4.5	408.8	5.11	NO	CIRCULAR	2	0	0	0	1	New
8	NP1079-NMH5	1079	416.123	NMH5	416.81	Split Pipe		62.225	0.017	407.873	8.25	403.534	13.276	NO	CIRCULAR	1	0	0	0	1	New
9	NP1091-NMH4	1091	416.34	NMH4	417			70.597	0.017	405.2	11.14	402	15	NO	CIRCULAR	3	0	0	0	1	New
10	NP1098-NMH1	1098	413.367	NMH1	414			32.575	0.017	409.539	3.828	408	6	NO	CIRCULAR	3	0	0	0	1	New
11	NP1101-NMH3	1101	414.462	NMH3	414.88			21.665	0.017	408.95	5.512	408.4	6.48	NO	CIRCULAR	3.5	0	0	0	1	New
12	NP1139-NMH13	1139	415.679	NMH13	416.81			118.698	0.017	406.4	9.279	406	10.81	NO	CIRCULAR	4.5	0	0	0	1	New
13	NP1148-NMH15	1148	413.776	NMH15	417.41			403.291	0.017	410.7	3.076	407.4	10.01	NO	CIRCULAR	2.25	0	0	0	1	New
14	NP1159-NMH10	1159	414.233	NMH10	416.66			180.385	0.017	405.9	8.333	405.5	11.16	NO	CIRCULAR	3.75	0	0	0	1	New
15	NP1172-NMH12	1172	413.093	NMH12	412.75			218.881	0.017	409.4	3.693	408.8	3.95	NO	CIRCULAR	2.25	0	0	0	1	New
16	NPMI61-NMH5	MI61	417	NMH5	416.81	Split pipe		56.227	0.017	407.912	9.088	403.534	13.276	NO	CIRCULAR	1.5	0	0	0	1	New
17	NPMI67-NMH6	MI67	417.59	NMH6	415.81			136.345	0.017	407.237	10.353	403.2	12.61	NO	CIRCULAR	2	0	0	0	1	New
18	NPNMH10-NMH11	NMH10	416.66	NMH11	415.66			490.446	0.017	404.8	11.86	404.2	11.46	NO	CIRCULAR	5.5	0	0	0	1	New
19	NPNMH11-NMH3	NMH11	415.66	NMH3	414.88			256.199	0.017	404.2	11.46	403.8	11.08	NO	CIRCULAR	5.5	0	0	0	1	New
20	NPNMH12-1149	NMH12	412.75	1149	411.676			43.442	0.017	408.8	3.95	408.7	2.976	NO	CIRCULAR	2.5	0	0	0	1	New
21	NPNMH13-NMH14	NMH13	416.81	NMH14	416.78			113.892	0.017	406	10.81	405.7	11.08	NO	CIRCULAR	4.5	0	0	0	1	New
22	NPNMH14-NMH15	NMH14	416.78	NMH15	417.41			190.24	0.017	405.7	11.08	405.4	12.01	NO	CIRCULAR	4.5	0	0	0	1	New
23	NPNMH15-NMH10	NMH15	417.41	NMH10	416.66			354.488	0.017	405.4	12.01	404.8	11.86	NO	CIRCULAR	5	0	0	0	1	New
24	NPNMH1-NMH2	NMH1	414	NMH2	413.91			45.323	0.017	403.3	10.7	403.2	10.71	NO	CIRCULAR	5.5	0	0	0	1	New
25	NPNMH2-NMH7	NMH2	413.91	NMH7	414.84			294.878	0.017	403.2	10.71	402.8	12.04	NO	CIRCULAR	6	0	0	0	1	New
26	NPNMH3-NMH1	NMH3	414.88	NMH1	414			330.328	0.017	403.8	11.08	403.3	10.7	NO	CIRCULAR	5.5	0	0	0	1	New
27	NPNMH5-NMH6	NMH5	416.81	NMH6	415.81			123.104	0.017	401.6	15.21	401.2	14.61	NO	CIRCULAR	6	0	0	0	1	New
28	NPNMH6-PS255	NMH6	415.81	PS255	412			270.108	0.017	401.2	14.61	400	12	NO	CIRCULAR	6	0	0	0	1	New
29	NPNMH7-NMH4	NMH7	414.84	NMH4	417			242.729	0.017	402.8	12.04	402	15	NO	CIRCULAR	6	0	0	0	1	New
30	NPOF1-1144	OF1	414.19	1144	413.378			49.331	0.017	410	4.19	409.2	4.178	NO	CIRCULAR	1	0	0	0	1	New
31	NPOF12-OF13	OF12	412	OF13	412			176.526	0.017	409.5	2.5	409	3	NO	ARCH	6	0	0	0	1	New Arch
32	NPOF13-MI1	OF13	412	MI1	413.97			557.456	0.017	409	3	408.15	5.82	NO	ARCH	7	0	0	0	1	New Arch
33	P1057-1061	1057	415.42	1061	414.9			153.338	0.017	412.136	3.284	411.945	2.955	NO	CIRCULAR	1	0	0	0	1	
34	P1058-1057	1058	415.573	1057	415.42			28.837	0.017	412.116	3.457	412.091	3.329	NO	CIRCULAR	1	0	0	0	1	
35	P1059-1058	1059	415.801	1058	415.573			77.471	0.017	412.393	3.408	412.253	3.32	NO	CIRCULAR	1	0	0	0	1	
36	P1060-1059	1060	416.076	1059	415.801			65.475	0.017	412.813	3.263	412.602	3.199	NO	CIRCULAR	1	0	0	0	1	
37	P1061-1062	1061	414.9	1062	415.916			8.425	0.017	412.015	2.885	411.835	4.081	NO	CIRCULAR	1	0	0	0	1	
38	P1062-MI50	1062	415.916	MI50	415.72			177.809	0.017	411.837	4.079	411.359	4.361	NO	CIRCULAR	1.25	0	0	0	1	
39	P1063-MI50	1063	414.609	MI50	415.72			8.72	0.017	411.716	2.893	411.55	4.17	NO	CIRCULAR	1	0	0	0	1	
40	P1064-MI51	1064	414.466	MI51	415.28			9.058	0.017	411.596	2.87	411.42	3.86	NO	CIRCULAR	1	0	0	0	1	
41	P1065-MI52	1065	414.536	MI52	415.13			8.769	0.017	411.553	2.983	411.35	3.78	NO	CIRCULAR	1	0	0	0	1	
42	P1066-1072	1066	414.231	1072	415.057			7.532	0.017	411.538	2.693	411.3	3.757	NO	CIRCULAR	1	0	0	0	1	
43	P1067-MI53	1067	414.03	MI53	414.91			7.679	0.017	411.318	2.712	411.15	3.76	NO	CIRCULAR	1	0	0	0	1	
44	P1068-MI54	1068	413.915	MI54	414.63			7.454	0.017	411.067	2.848	410.9	3.73	NO	CIRCULAR	1	0	0	0	1	
45	P1069-MI55	1069	413.712	MI55	414.59			7.81	0.017	410.897	2.815	410.75	3.84	NO	CIRCULAR	1	0	0	0	1	
46	P1070-1071	1070	413.412	1071	414.24			8.145	0.017	410.645	2.767	410.477	3.763	NO	CIRCULAR	1	0	0	0	1	
47	P1071-MI56	1071	414.24	MI56	414.28			68.986	0.017	410.477	3.763	409.9	4.38	NO	CIRCULAR	2	0	0	0	1	New
48	P1072-MI53	1072	415.057	MI53	414.91			70.121	0.017	411.06	3.997	410.917	3.993	NO	CIRCULAR	1.5	0	0	0	1	
49	P1073-MI56	MI56	414.28	1073	414	Reverse Dir		9.669	0.017	409.65	4.63	409.5	4.5	NO	CIRCULAR	2	0	0	0	1	New
50	P1074-MI57	1074	412.919	MI57	414.31			11.635	0.017	410.579	2.34	410.35	3.96	NO	CIRCULAR	1	0	0	0	1	
51	P1075-MI58	1075	413.33	MI58	414.44			9.808	0.017	410.123	3.207	410.093	4.347	NO	CIRCULAR	1	0	0	0	1	
52	P1076-MI59	1076	413.613	MI59	414.69	Unk pipe. US ir		9.196	0.017	410.561	3.052	410.513	4.177	NO	CIRCULAR	1	0	0	0	1	Cleanout
53	P1077-MI60	1077	414.966	MI60	415.94			8.797	0.017	408.813	6.153	408.7	7.24	NO	CIRCULAR	1.25	0	0	0	1	
54	P1078-1079	1078	415.42	1079	416.123			8.437	0.017	409.196	6.224	408.964	7.159	NO	CIRCULAR	1.25	0	0	0	1	
55	P1080-MI61	1080	416.158	MI61	417			12.627	0.017	408.456	7.702	408.21	8.79	NO	CIRCULAR	1.25	0	0	0	1	
56	P1081-MI62	1081	416.366	MI62	417.38			13.818	0.017	408.457	7.909	408.17	9.21	NO	CIRCULAR	1.25	0	0	0	1	
57	P1082-MI63	1082	416.865	MI63	417.38			16.845	0.017	407.967	8.898	407.959	9.421	NO	CIRCULAR	1.25	0	0	0	1	
58	P1083-MI64	1083	417.387	MI64	418.41			18.302	0.017	408.422	8.965	408.369	10.041	NO	CIRCULAR	1.25	0	0	0	1	
59	P1084-MI65	1084	418.312	MI65	419.09			21.322	0.017	407.678	10.634	407.69	11.4	NO	CIRCULAR	1.25	0	0	0	1	
60	P1087-1112	1087	417.877	1112	418.263			30.85	0.017	415.161	2.716	414.196	4.067	NO	CIRCULAR	1	0	0	0	1	
61	P1088-1112	1088	416.626	1112	418.263			53.611	0.017	414.017	2.609	413.276	4.987	NO	CIRCULAR	1	0	0	0	1	

62	P1089-1090	1089	417.414	1090	416.77		86.143	0.017	414.069	3.345	413.877	2.893	NO	CIRCULAR	1	0	0	0	1	
63	P1090-1091	1090	416.77	1091	416.34		73.881	0.017	413.726	3.044	411.533	4.807	NO	CIRCULAR	1	0	0	0	1	
64	P1091-MI96	MI96	413.22	1091	416.34	Reverse Dir	104.255	0.017	405.941	7.279	405.2	11.14	NO	CIRCULAR	3	0	0	0	1	New
65	P1092-1091	1092	414.94	1091	416.34		106.497	0.017	411.858	3.082	411.65	4.69	NO	CIRCULAR	1	0	0	0	1	
66	P1093-1092	1093	414.9	1092	414.94		98.326	0.017	412.318	2.582	412.028	2.912	NO	CIRCULAR	1	0	0	0	1	
67	P1094-1095	1094	413.688	1095	413.366		75.679	0.017	410.763	2.925	410.501	2.865	NO	CIRCULAR	1	0	0	0	1	
68	P1095-1096	1095	413.366	1096	413.028		50.108	0.017	410.552	2.814	410.513	2.515	NO	CIRCULAR	1	0	0	0	1	
69	P1096-1097	1096	413.028	1097	413.173		33.834	0.017	410.617	2.411	410.55	2.623	NO	CIRCULAR	1	0	0	0	1	
70	P1097-1098	1097	413.173	1098	413.367		62.496	0.017	410.584	2.589	409.687	3.68	NO	CIRCULAR	1	0	0	0	1	
71	P1099-MI96	1099	412.667	MI96	413.22		702.135	0.017	406.85	5.817	405.941	7.279	NO	CIRCULAR	3	0	0	0	1	
72	P1100-1099	1100	411.519	1099	412.667		102.717	0.017	407.743	3.776	407.744	4.923	NO	CIRCULAR	3	0	0	0	1	
73	P1102-1101	1102	414.564	1101	414.462		67.62	0.017	409.3	5.264	408.95	5.512	NO	CIRCULAR	3.5	0	0	0	1	New
74	P1103-1102	1103	414.785	1102	414.564		88.42	0.017	409.5	5.285	409.3	5.264	NO	CIRCULAR	3	0	0	0	1	New
75	P1104-1103	1104	415.068	1103	414.785		73.894	0.017	409.7	5.368	409.5	5.285	NO	CIRCULAR	3	0	0	0	1	New
76	P1105-1104	1105	415.231	1104	415.068		29.935	0.017	409.8	5.431	409.7	5.368	NO	CIRCULAR	3	0	0	0	1	New
77	P1106-1105	1106	415.071	1105	415.231	1 ft pipe size. 1,	18.539	0.017	410.86	4.211	409.804	5.427	NO	CIRCULAR	1	0	0	0	1	New
78	P1107-1106	1107	415.112	1106	415.071	inlet 1106 1/3 si	51.022	0.017	412.844	2.268	410.88	4.191	NO	CIRCULAR	1	0	0	0	1	New
79	P1108-1107	1108	415.189	1107	415.112		47.323	0.017	413.204	1.985	412.876	2.236	NO	CIRCULAR	1	0	0	0	1	
80	P1109-1108	1109	415.652	1108	415.189	1 ft pipe size. 1	121.8	0.017	413.253	2.399	413.204	1.985	NO	CIRCULAR	1	0	0	0	1	Cleanout
81	P1110-1109	1110	415.616	1109	415.652	1 ft clay pipe. 1	103.856	0.017	413.396	2.22	413.264	2.388	NO	CIRCULAR	1	0	0	0	1	Cleanout
82	P1113-MI96	1113	412.243	MI96	413.22		34.732	0.017	407.086	5.157	405.941	7.279	NO	CIRCULAR	3	0	0	0	1	
83	P1137-1138	1137	415.595	1138	415.637		38.381	0.017	412.348	3.247	411.99	3.647	NO	CIRCULAR	0.667	0	0	0	1	
84	P1138-1139	1138	415.637	1139	415.679		10.948	0.017	411.957	3.68	411.535	4.144	NO	CIRCULAR	1	0	0	0	1	
85	P1139-1140	1140	415.201	1139	415.679	Reverse Dir.	139.341	0.017	406.7	8.501	406.4	9.279	NO	CIRCULAR	4.5	0	0	0	1	New
86	P1140-1142	1142	415.624	1140	415.201	Reverse Dir.	166.7	0.017	407	8.624	406.7	8.501	NO	CIRCULAR	4.5	0	0	0	1	New
87	P1141-1142	1141	414.562	1142	415.624		10.11	0.017	412.103	2.459	411.5	4.124	NO	CIRCULAR	1.5	0	0	0	1	New
88	P1142-1144	1144	413.378	1142	415.624	Reverse Dir.	300.68	0.017	407.4	5.978	407	8.624	NO	CIRCULAR	4.25	0	0	0	1	New
89	P1143-1145	1145	414.12	1143	413.061	Reverse Dir.	740.309	0.017	408	6.12	407.45	5.611	NO	CIRCULAR	4.25	0	0	0	1	New
90	P1144-1143	1143	413.061	1144	413.378	Reverse Dir.	42.162	0.017	407.45	5.611	407.4	5.978	NO	CIRCULAR	4.25	0	0	0	1	New
91	P1146-1145	1146	413.265	1145	414.12		17.616	0.017	411.631	1.634	410.797	3.323	NO	CIRCULAR	1	0	0	0	1	
92	P1147-1148	1147	414.334	1148	413.776		25.351	0.017	411.159	3.175	410.7	3.076	NO	CIRCULAR	1	0	0	0	1	New
93	P1150-1149	1150	411.593	1149	411.676	Unk pipe size. U	27.595	0.017	411.021	0.572	408.7	2.976	NO	CIRCULAR	1	0	0	0	1	Cleanout
94	P1151-1152	1151	412.214	1152	412.686	Unk size. 2ft sill	12.949	0.017	408.528	3.686	408.179	4.507	NO	CIRCULAR	1	0	0	0	1	Cleanout
95	P1152-1149	1149	411.676	1152	412.686	Unk pipe size. u	203.308	0.017	408.7	2.976	408.1	4.586	NO	CIRCULAR	2.75	0	0	0	1	New
96	P1153-1152	1153	412.395	1152	412.686	Unk pipe size. 2	11.71	0.017	408.411	3.984	408.1	4.586	NO	CIRCULAR	1	0	0	0	1	Cleanout
97	P1154-1155	1154	412.768	1155	413.202	Unk pipe size. 1	12.425	0.017	409.854	2.914	407.6	5.602	NO	CIRCULAR	1	0	0	0	1	Cleanout
98	P1155-1152	1152	412.686	1155	413.202	Unk pipe size. 0	304.099	0.017	408.1	4.586	407.6	5.602	NO	CIRCULAR	3	0	0	0	1	New
99	P1156-1155	1156	412.74	1155	413.202	Unk pipe size. 1	13.854	0.017	409.392	3.348	407.6	5.602	NO	CIRCULAR	1	0	0	0	1	Cleanout
100	P1157-1159	1157	412.624	1159	414.233		214.103	0.015	406.4	6.224	405.9	8.333	NO	CIRCULAR	3.75	0	0	0	1	New
101	P1158-1157	1158	412.564	1157	412.624		27.44	0.015	410.044	2.52	408.4	4.224	NO	CIRCULAR	1.5	0	0	0	1	New
102	P1160-MI98	1160	413.055	MI98	415.06		180.349	0.017	410.4	2.655	410.1	4.96	NO	ARCH	6	0	0	0	1	New Arch
103	P1161-1160	1161	413.001	1160	413.055		27.902	0.017	411.325	1.676	411.168	1.887	NO	CIRCULAR	1.25	0	0	0	1	New
104	P1162-1163	1162	412.798	1163	412.904		20.428	0.017	411.608	1.19	411.589	1.315	NO	CIRCULAR	1.25	0	0	0	1	
105	P1163-1160	1163	412.904	1160	413.055		275.776	0.017	410.6	2.304	410.4	2.655	NO	ARCH	5	0	0	0	1	New Arch
106	P1164-1163	1164	412.939	1163	412.904		29.589	0.017	411	1.939	410.6	2.304	NO	CIRCULAR	1.5	0	0	0	1	New
107	P1169-1145	1169	413.627	1145	414.12		23.066	0.017	411.762	1.865	410.881	3.239	NO	CIRCULAR	1	0	0	0	1	
108	P1170-1172	1170	412.986	1172	413.093	Assume 1ft pipe	87.774	0.017	409.8	3.186	409.4	3.693	NO	CIRCULAR	2	0	0	0	1	New
109	P1171-1170	1171	412.713	1170	412.986	estimate 1 ft pip	27.686	0.017	410	2.713	409.8	3.186	NO	CIRCULAR	1.75	0	0	0	1	New
110	PCLV3-1099	CLV3	413.667	1099	412.667		257.295	0.017	408.045	5.622	407.675	4.992	NO	CIRCULAR	3	0	0	0	1	
111	PMI1-MI3	MI1	413.97	MI3	414.06		12.979	0.017	408.15	5.82	408.1	5.96	NO	CIRCULAR	4	0	0	0	1	New
112	PMI3-1145	MI3	414.06	1145	414.12		47.3	0.017	408.1	5.96	408	6.12	NO	CIRCULAR	4	0	0	0	1	New
113	PMI33-MI3	MI33	414.16	MI3	414.06		15.256	0.017	412.16	2	411.56	2.5	NO	CIRCULAR	1	0	0	0	1	
114	PMI4-1145	MI4	414.25	1145	414.12		58.978	0.017	412.25	2	410.8	3.32	NO	CIRCULAR	1.5	0	0	0	1	New
115	PMI50-MI51	MI50	415.72	MI51	415.28		48.958	0.017	411.359	4.361	411.227	4.053	NO	CIRCULAR	1.25	0	0	0	1	
116	PMI51-MI52	MI51	415.28	MI52	415.13		60.29	0.017	411.227	4.053	411.065	4.065	NO	CIRCULAR	1.25	0	0	0	1	
117	PMI53-MI54	MI53	414.91	MI54	414.63		62.503	0.017	410.917	3.993	410.79	3.84	NO	CIRCULAR	1.5	0	0	0	1	
118	PMI54-MI55	MI54	414.63	MI55	414.59		65.211	0.017	410.79	3.84	410.657	3.933	NO	CIRCULAR	1.5	0	0	0	1	
119	PMI55-1071	MI55	414.59	1071	414.24		69.313	0.017	410.657	3.933	410.516	3.724	NO	CIRCULAR	2	0	0	0	1	New
120	PMI56-MI57	MI57	414.31	MI56	414.28		46.635	0.017	409.919	4.391	409.776	4.504	NO	CIRCULAR	1.25	0	0	0	1	
121	PMI57-MI58	MI58	414.44	MI57	414.31		56.868	0.017	410.093	4.347	409.919	4.391	NO	CIRCULAR	1.25	0	0	0	1	
122	PMI58-MI59	MI59	414.69	MI58	414.44		80	0.017	410.513	4.177	410.093	4.347	NO	CIRCULAR	1.25	0	0	0	1	
123	PMI60-1079	MI60	415.94	1079	416.123		68.495	0.017	408.7	7.24	407.992	8.131	NO	CIRCULAR	1.25	0	0	0	1	
124	PMI61-MI62	MI62	417.38	MI61	417	Assume 1.5	33.81	0.017	407.929	9.451	407.912	9.088	NO	CIRCULAR	1.5	0	0	0	1	
125	PMI62-MI63	MI63	417.38	MI62	417.38	Assume 1.5	63.589	0.017	407.959	9.421	407.929	9.451	NO	CIRCULAR	1.5	0	0	0	1	
126	PMI63-1072	MI52	415.13	1072	415.057		42.333	0.017	411.065	4.065	410.951	4.106	NO	CIRCULAR	1.25	0	0	0	1	
127	PMI63-MI64	MI64	418.41	MI63	417.38	Assume 1.25	72.156	0.017	407.822	10.588	407.959	9.421	NO	CIRCULAR	1.25	0	0	0	1	

128	PMI64-MI65	MI65	419.09	MI64	418.41	Assume 1.25	67.076	0.017	407.69	11.4	407.822	10.588	NO	CIRCULAR	1.25	0	0	0	1	
129	PMI96-1112	1112	418.263	MI96	413.22	Reverse Dir	197.689	0.017	408.5	9.763	407.5	5.72	NO	CIRCULAR	3.5	0	0	0	1	New
130	PMI98-1105	MI98	415.06	1105	415.231		142.55	0.017	410.1	4.96	409.8	5.431	NO	CIRCULAR	2.5	0	0	0	1	New
131	PMP1-MP2	MP1	411.7	MP2	411.75		1995.692	0.017	405.275	6.425	404.254	7.496	NO	CIRCULAR	5	0	0	0	1	Decomissioned
132	PMP2-OF23	MP2	411.75	PS_Wedge	412	No pump statio	2216.814	0.017	404.254	7.496	403.12	8.88	NO	CIRCULAR	0.1	0	0	0	1	Decomissioned

Arch Dimensions

Type	height	bw
5	1.875	3.021
6	2.219	3.646
7	2.609	4.26

pump station

Piat South Alternatives (Wetland or Ditch)

FID	NAME	INLETNOI	RIM Elev	OUTLETN	RIM Elev	DESCRIPT	TAG	LENGTH	ROUGHNI	INOFFSET	DepthInInvert	OUTOFFSI	DepthOutInvert	FLAPGATE	XSECTION	GEOM1	GEOM2	GEOM3	GEOM4	BARRELS	Proposed
0	NCI1-NOF1	NCI1	409.1	NOF1	414.5			235.219	0.017	406.1	3	406	8.5	YES	CIRCULAR	3	0	0	0	2	New
1	NDNCO1-NCI1	NCO1	411	NCI1	409.1			1136.081	0.028	415.09	-4.09	406.1	3	NO	TRAPEZOIDAL	4.5	5	3	3	1	New Ditch
2	NP1014-NMH1	1014	412.72	NMH1	412.75			24.354	0.017	406.65	6.07	406.6	6.15	NO	ARCH	11	0	0	0	1	New
3	NPCO8-NMH3	CO8	415.154	NMH3	414.5			112.849	0.017	410.8	4.354	410.2	4.3	NO	CIRCULAR	3.25	0	0	0	1	New
4	NPCO99-1022	CO99	414.623	1022	415.31			77.072	0.017	411.6	3.023	411.2	4.11	NO	CIRCULAR	2.5	0	0	0	1	New
5	NPNAI1-1019	NAI1	413.2	1019	411.938			65.256	0.017	408.8	4.4	407.7	4.238	NO	ARCH	9	0	0	0	1	New
6	NPNAi2-NAI1	NAI2	413.8	NAI1	413.2			61.48	0.01	409.4	4.4	408.8	4.4	NO	CIRCULAR	3.5	0	0	0	1	New
7	NPNMH1-NMH2	NMH1	412.75	NMH2	415.09			750.893	0.017	406.6	6.15	406.25	8.84	NO	ARCH	11	0	0	0	1	New
8	NPNMH2-NCO1	NMH2	415.09	NCO1	411			95.492	0.017	406.25	8.84	415.09	-4.09	NO	ARCH	11	0	0	0	1	New
9	NPNMH3-CI1	NMH3	414.5	NAI2	413.8			107.557	0.017	410.2	4.3	409.4	4.4	NO	CIRCULAR	3.25	0	0	0	1	New
10	P1000-CO99	1000	415.748	CO99	414.623			204.547	0.015	412.201	3.547	411.6	3.023	NO	CIRCULAR	2.25	0	0	0	1	New
11	P1001-1000	1001	416.432	1000	415.748			110.412	0.015	414.347	2.085	413.268	2.48	NO	CIRCULAR	1	0	0	0	1	
12	P1006-CO8	1006	414.518	CO8	415.154	12 in pipe.	1	122.586	0.017	411.2	3.318	410.8	4.354	NO	CIRCULAR	2.75	0	0	0	1	New
13	P1007-1022	1007	414.739	1022	415.31			84.892	0.015	412.448	2.291	411.9	3.41	NO	CIRCULAR	1.5	0	0	0	1	New
14	P1008-1007	1008	414.418	1007	414.739	10in Pipe.	va	108.166	0.01	412.851	1.567	412.448	2.291	NO	CIRCULAR	1.25	0	0	0	1	New
15	P1009-1006	1009	414.508	1006	414.518	10 or 12 in pi		77.639	0.017	411.4	3.108	411.2	3.318	NO	CIRCULAR	2.5	0	0	0	1	New
16	P1010-1009	1010	414.468	1009	414.508	10 in pipe.	v	149.415	0.017	411.8	2.668	411.4	3.108	NO	CIRCULAR	2.25	0	0	0	1	New
17	P1013-1014	1013	411.893	1014	412.72			25.223	0.017	406.7	5.193	406.65	6.07	NO	ARCH	11	0	0	0	1	New
18	P1014-MI152	MI152	412.41	1014	412.72			136.268	0.017	410.1	2.31	408.65	4.07	NO	CIRCULAR	2	0	0	0	1	New
19	P1015-MI90	1015	411.597	MI90	413.47			125.85	0.017	406.9	4.697	406.8	6.67	NO	ARCH	11	0	0	0	1	New
20	P1016-1015	1016	411.801	1015	411.597			26.68	0.017	406.95	4.851	406.9	4.697	NO	ARCH	11	0	0	0	1	New
21	P1018-1016	1018	411.739	1016	411.801			248.157	0.017	407.1	4.639	406.95	4.851	NO	ARCH	11	0	0	0	1	New
22	P1019-1018	1019	411.938	1018	411.739			31.574	0.017	407.7	4.238	407.1	4.639	NO	ARCH	10	0	0	0	1	New
23	P1020-1021	1020	412.865	1021	412.316			26.807	0.017	410.87	1.995	410.1	2.216	NO	CIRCULAR	1.25	0	0	0	1	New
24	P1021-MI90	1021	412.316	MI90	413.47			243.233	0.017	410.1	2.216	408.8	4.67	NO	CIRCULAR	2	0	0	0	1	New
25	P1022-CO8	1022	415.31	CO8	415.154			46.093	0.017	411.2	4.11	410.8	4.354	NO	CIRCULAR	3	0	0	0	1	New
26	PCI2-1000	CI2	414.969	1000	415.748			229.003	0.017	412.6	2.369	412.229	3.519	NO	CIRCULAR	2.25	0	0	0	1	New
27	PCI8-1010	CI8	414.777	1010	414.468			50.283	0.017	413.043	1.734	412.3	2.168	NO	CIRCULAR	1.5	0	0	0	1	New
28	PMI90-1013	MI90	413.47	1013	411.893			138.499	0.017	406.8	6.67	406.7	5.193	NO	ARCH	11	0	0	0	1	New

	h	wb
Arch 11	4.5	7.33
Arch 10	3.75	6.083
Arch 9	3.333	5.417

NCI1-NOF2 is a culvert. Depth at ds really is top of pipe.

Trap	geom1	geom2	geom3
	depth	basewidth	side slope
	4.5	5	3

Piat East Alternative

FID	NAME	INLETNODE	InRIM	OUTLETNOD	OutRIM	DESCRIPT	TAG	LENGTH	ROUGHNE	INOFFSET	InDepth	OUTOFFSI	OutDepth	FLAPGATE	XSECTION	GEOM1	GEOM2	GEOM3	GEOM4	BARRELS	Proposed
0	C1	MI152	412.41	MH255_1	416.41			428.91	0.017	405.5	6.91	404.4	12.01	NO	ARCH	10	0	0	0	1	New
1	C2	MH255_1	416.41	MH255_2	414.56			247.324	0.017	404.4	12.01	403.5	11.06	NO	ARCH	10	0	0	0	1	New
2	C7	MH255_2	414.56	Piat_PS	414.5			164.098	0.017	403.5	11.06	403	11.5	NO	ARCH	10	0	0	0	1	New
3	NPCO8-NMH3	CO8	415.154	NMH3	414.5			112.849	0.017	410.8	4.354	410.2	4.3	NO	CIRCULAR	3.5	0	0	0	1	New
4	NPCO99-1022	CO99	414.623	1022	415.31			77.072	0.017	411.6	3.023	411.2	4.11	NO	CIRCULAR	2.5	0	0	0	1	New
5	NPNAI1-1019	NAI1	413.2	1019	411.938			65.256	0.017	408.8	4.4	407.7	4.238	NO	CIRCULAR	3.5	0	0	0	1	New
6	NPNAi2-NAI1	NAI2	413.8	NAI1	413.2			61.48	0.01	409.4	4.4	408.8	4.4	NO	CIRCULAR	3.5	0	0	0	1	New
7	NPNMH3-CI1	NMH3	414.5	NAI2	413.8			107.557	0.017	410.2	4.3	409.4	4.4	NO	CIRCULAR	3.5	0	0	0	1	New
8	P1000-CO99	1000	415.748	CO99	414.623			204.547	0.015	412.201	3.547	411.6	3.023	NO	CIRCULAR	2.25	0	0	0	1	New
9	P1001-1000	1001	416.432	1000	415.748			110.412	0.015	414.347	2.085	413.268	2.48	NO	CIRCULAR	1	0	0	0	1	
10	P1006-CO8	1006	414.518	CO8	415.154	12 in pipe. 1/2 silted i		122.586	0.017	411.2	3.318	410.8	4.354	NO	CIRCULAR	2.75	0	0	0	1	New
11	P1007-1022	1007	414.739	1022	415.31			84.892	0.015	412.448	2.291	411.9	3.41	NO	CIRCULAR	1.5	0	0	0	1	New
12	P1008-1007	1008	414.418	1007	414.739	10in Pipe. vault silted		108.166	0.01	412.851	1.567	412.448	2.291	NO	CIRCULAR	1.25	0	0	0	1	New
13	P1009-1006	1009	414.508	1006	414.518	10 or 12 in pipe. us va		77.639	0.017	411.4	3.108	411.2	3.318	NO	CIRCULAR	2.5	0	0	0	1	New
14	P1010-1009	1010	414.468	1009	414.508	10 in pipe. vault ds 1/		149.415	0.017	411.8	2.668	411.4	3.108	NO	CIRCULAR	2.25	0	0	0	1	New
15	P1013-1014	1013	411.893	1014	412.72			25.223	0.017	406.7	5.193	406.65	6.07	NO	ARCH	10	0	0	0	1	New
16	P1014-MI152	1014	412.72	MI152	412.41			136.268	0.017	406.65	6.07	405.5	6.91	NO	ARCH	10	0	0	0	1	New
17	P1015-MI90	1015	411.597	MI90	413.47			125.85	0.017	406.9	4.697	406.8	6.67	NO	ARCH	10	0	0	0	1	New
18	P1016-1015	1016	411.801	1015	411.597			26.68	0.017	406.95	4.851	406.9	4.697	NO	ARCH	10	0	0	0	1	New
19	P1018-1016	1018	411.739	1016	411.801			248.157	0.017	407.1	4.639	406.95	4.851	NO	ARCH	10	0	0	0	1	New
20	P1019-1018	1019	411.938	1018	411.739			31.574	0.017	407.7	4.238	407.1	4.639	NO	ARCH	9	0	0	0	1	New
21	P1020-1021	1020	412.865	1021	412.316			26.807	0.017	410.87	1.995	410.1	2.216	NO	CIRCULAR	1.25	0	0	0	1	New
22	P1021-MI90	1021	412.316	MI90	413.47			243.233	0.017	410.1	2.216	408.8	4.67	NO	CIRCULAR	1.75	0	0	0	1	New
23	P1022-CO8	1022	415.31	CO8	415.154			46.093	0.017	411.2	4.11	410.8	4.354	NO	CIRCULAR	3	0	0	0	1	New
24	PCI2-1000	CI2	414.969	1000	415.748			229.003	0.017	412.6	2.369	412.229	3.519	NO	CIRCULAR	2.25	0	0	0	1	New
25	PCI8-1010	CI8	414.777	1010	414.468			50.283	0.017	413.043	1.734	412.3	2.168	NO	CIRCULAR	1.5	0	0	0	1	New
26	PMI90-1013	MI90	413.47	1013	411.893			138.499	0.017	406.8	6.67	406.7	5.193	NO	ARCH	10	0	0	0	1	New

Arch Dimensi	Height	BW
10	3.75	6.083
9	3.333	5.417

Pump Station

10 yr 102 cfs