

APPENDIX A

100-Year Conveyance Model Summary

Model Evaluation of 100-Year Facilities

Major Drainageway	Model ID	Q ₁₀₀ Existing	Q ₁₀₀ Improved	Type	Model Size	Model Slope	Proposed Improvement
Barneys Creek	C31	29	29	Open Channel	5' Deep, 4' BW, 3H:1V SSs	4.1%	
Barneys Creek	C32	126	126	Open Channel	5' Deep, 4' BW, 3H:1V SSs	5.3%	
Barneys Creek	C33	166	166	Open Channel	5' Deep, 4' BW, 3H:1V SSs	2.7%	
Barneys Creek	C37A	23	23	Culvert	12'W x 4'H Box Culvert	3.1%	
Barneys Creek	C37B	33	33	Open Channel	5' Deep, 4' BW, 3H:1V SSs	3.1%	
Barneys Creek	C37C	33	33	Open Channel	5' Deep, 4' BW, 3H:1V SSs	3.1%	
Barneys Creek	C38	34	34	Open Channel	5' Deep, 4' BW, 3H:1V SSs	3.7%	
Barneys Creek	FCDT-8685	38	38	Open Channel	5' Deep, 8' BW, 3H:1V SSs	0.5%	
Barneys Creek	CDTS-7943	38	38	Open Channel	5' Deep, 8' BW, 3H:1V SSs	2.7%	
Barneys Creek	CDTS-7944	38	38	Open Channel	4' Deep, 4' BW, 3H:1V SSs	0.9%	
Barneys Creek	CDTS-7951	104	104	Open Channel	5' Deep, 10' BW, 3H:1V SSs	2.4%	
Barneys Creek	CDTS-7946	139	139	Culvert	10'W X 6'H Box Culvert	1.0%	
Barneys Creek	CDTS-7950	139	139	Open Channel	5' Deep, 9' BW, 3H:1V SSs	4.8%	
Barneys Creek	CDTS-7947	139	139	Culvert	9'W x 4'H Box Culvert	2.1%	
Barneys Creek	CDTS-7949	139	139	Open Channel	5' Deep, 10' BW, 3H:1V SSs	2.5%	
Barneys Creek	CDTS-7948	139	139	Culvert	10'W X 6'H Box Culvert	1.4%	
Barneys Creek	CDTS-7954	150	150	Open Channel	8' Deep, 10' BW, 3H:1V SSs	2.6%	
Barneys Creek	CDTS-7352	150	150	Culvert	8'W x 6'H Box Culvert	2.7%	
Barneys Creek	CDTS-6545	9	9	Pipe	24"	2.7%	
Barneys Creek	CDTS-4082	9	9	Pipe	24"	1.3%	
Barneys Creek	CDTS-4081	17	17	Pipe	24"	0.9%	
Barneys Creek	CDTS-4079	20	20	Pipe	24"	0.8%	
Barneys Creek	CDTS-3246	22	22	Pipe	24"	3.8%	
Barneys Creek	CDTS-8028	72	72	Pipe	36"	1.6%	
Barneys Creek	CDTS-8024	72	72	Pipe	36"	2.2%	
Barneys Creek	CDTS-8025	70	84	Culvert	36"	1.0%	Replace with 48"
Barneys Creek	CDTS-8031	70	83	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.9%	
Barneys Creek	CDTS-8029	99	107	Culvert	54"	2.1%	
Barneys Creek	CDTS-8035	99	107	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.8%	
Barneys Creek	CDTS-7931	95	95	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.3%	
Barneys Creek	CDTS-7929	99	99	Culvert	42"	0.8%	

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Barneys Creek	CDTS-7930	99	99	Open Channel	4' Deep, 4' BW, 3H:1V SSs	7.4%	
Barneys Creek	CDTS-8011	101	102	Culvert	72"	1.9%	
Barneys Creek	CDTS-8036	102	102	Open Channel	4' Deep, 4' BW, 3H:1V SSs	0.7%	
Barneys Creek	CDTS-8037	132	140	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.8%	Replace culvert near school with 8'W x 4'H box
Barneys Creek	CDTS-8041	190	197	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.0%	
Barneys Creek	CDTS-1842	176	202	Culvert	3'W x 5'H Box Culvert	2.1%	Replace with 8'W x 4'H box
Barneys Creek	CDTS-1843	176	202	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.9%	
Barneys Creek	CDTS-1846	177	200	Culvert	5'W x 3'H Box Culvert	4.2%	Replace with 8'W x 4'H box
Barneys Creek	CDTS-1847	177	200	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.4%	
Barneys Creek	CDTS-497	193	215	Culvert	60"	18.6%	
Barneys Creek	CDTS-8043	192	214	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.3%	
Barneys Creek	CDTS-2543	141	159	Culvert	Dual 42"	2.6%	Replace with 6'W x 5'H box, new 30" pipe down New Bingham to 7800 S
Barneys Creek	CDTS-1451	166	167	Pipe	66"	0.2%	
Barneys Creek	CDTS-2504	200	208	Pipe	Dual 48"	0.1%	Flow represents combined flow
Barneys Creek	CDTS-6410	256	262	Pipe	Dual 48"	2.4%	Flow represents combined flow
Barneys Creek	CDTS-6413	236	238	Pipe	Dual 48"	0.1%	Flow represents combined flow
Barneys Wash	C25	58	58	Open Channel	5' Deep, 4' BW, 3H:1V SSs	4.0%	
Barneys Wash	C26	25	25	Open Channel	5' Deep, 4' BW, 3H:1V SSs	4.1%	
Barneys Wash	C27	107	107	Open Channel	5' Deep, 4' BW, 3H:1V SSs	2.8%	
Barneys Wash	C28	148	148	Open Channel	5' Deep, 4' BW, 3H:1V SSs	2.6%	
Barneys Wash	C29	163	163	Open Channel	5' Deep, 4' BW, 3H:1V SSs	2.6%	
Barneys Wash	C30	199	199	Open Channel	5' Deep, 4' BW, 3H:1V SSs	2.7%	
Barneys Wash	CDTS-8060	206	206	Culvert	9'W x 4'H Box Culvert	3.2%	
Barneys Wash	CDTS-8061	206	206	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.3%	
Barneys Wash	CDTS-8062	214	214	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.4%	
Barneys Wash	CDTS-8050	176	214	Culvert	4'W x 4'H Box Culvert	1.7%	10'W x 4'H Box
Barneys Wash	CDTS-8063	183	220	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.3%	
Barneys Wash	CDTS-8064	183	220	Bridge	4' Deep, 4' BW, 3H:1V SSs	1.6%	
Barneys Wash	CDTS-8059	188	223	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.5%	
Barneys Wash	CDTS-8053	132	137	Pipe	44"	2.3%	

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Barneys Wash	CDTS-8058	132	137	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.9%	
Barneys Wash	CDTS-8057	132	140	Culvert	48"	1.1%	
Barneys Wash	CDTS-8056	133	133	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.3%	
Barneys Wash	CDTS-8055	137	142	Culvert	60"	3.2%	
Barneys Wash	CDTS-7610	137	133	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.4%	
Barneys Wash	CDTS-1739	111	120	Pipe	42"	1.8%	
Barneys Wash	CDTS-7787	133	182	Pipe	48"	2.5%	
Barneys Wash	CDTS-1452	199	219	Pipe	54"	8.2%	
Barneys Wash	CDTS-1457	47	48	Pipe	36"	3.7%	
Barneys Wash	CDTS-1449	53	50	Pipe	42"	0.4%	lower due to project improvement
Bingham Creek	CDTS-8280	128	128	Open Channel	4' Deep, 4' BW, 3H:1V SSs	0.9%	
Bingham Creek	CDTS-8283	254	254	Culvert	10'W x 5'H Box Culvert	2.1%	
Bingham Creek	CDTS-7788	251	251	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.8%	
Bingham Creek	CDTS-8286	269	259	Open Channel	5' Deep, 4' BW, 3H:1V SSs	1.2%	
Bingham Creek	CDTS-50	164	165	Pipe	72"	2.1%	
Bingham Creek	CDTS-51	164	165	Pipe	72"	1.3%	
Bingham Creek	CDTS-52	164	165	Pipe	72"	-1.1%	
Bingham Creek	CDTS-8288	33	33	Culvert	2 Ellipsoidal Pipes 40"H x 60"W	4.8%	
Bingham Creek	CDTS-7789	33	33	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.7%	
Bingham Creek	CDTS-5636	179	179	Culvert	96"	2.7%	
Bingham Creek	CDTS-986	179	179	Culvert	96"	1.5%	
Bingham Creek	CDTS-5637	214	214	Culvert	96"	4.6%	
Bingham Creek	CDTS-8328	210	210	Open Channel	4' Deep, 8' BW, 3H:1V SSs	0.0%	
Bingham Creek	CDTS-8330	210	210	Culvert	60"	2.6%	
Bingham Creek	CDTS-8331	218	218	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.2%	
Bingham Creek	CDTS-8333	221	221	Culvert	5'H x 4'W Box Culvert	0.9%	
Bingham Creek	CDTS-8334	220	220	Culvert	48"	10.2%	
Bingham Creek	CDTS-8335	244	244	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.4%	
Bingham Creek	CDTS-8327	247	247	Culvert	60"	1.0%	
Bingham Creek	CDTS-8370	249	249	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.8%	
Bingham Creek	CDTS-8337	250	250	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.1%	

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Bingham Creek	CDTS-8336	250	251	Culvert	10'W x 5'H Box Culvert	0.9%	
Bingham Creek	CDTS-8339	249	255	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.8%	
Bingham Creek	CDTS-8338	203	251	Culvert	48"	0.9%	
Bingham Creek	CDTS-8340	203	252	Open Channel	5' Deep, 8' BW, 3H:1V SSs	3.5%	
Bingham Creek	CDTS-8341	202	250	Culvert	8'W x 5'H Box Culvert	0.3%	
Bingham Creek	CDTS-8342	202	251	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.4%	
Bingham Creek	CDTS-8343	206	255	Culvert	10'W x 5'H Box Culvert	0.7%	
Bingham Creek	CDTS-8345	267	314	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.4%	
Bingham Creek	CDTS-8344	263	312	Culvert	72"	1.0%	
Bingham Creek	CDTS-8346	263	312	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.0%	
Bingham Creek	CDTS-8347	163	312	Pipe	8'W x 6'H Box Culvert	1.4%	Replace with 12'x5'
Bingham Creek	CDTS-8354	161	318	Pipe	8'W x 6'H Box Culvert	2.2%	Replace with 12'x5'
Bingham Creek	CDTS-8353	171	321	Pipe	8'W x 6'H Box Culvert	1.9%	Replace with 12'x5'
Bingham Creek	CDTS-8355	171	321	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.4%	
Bingham Creek	CDTS-8356	175	297	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.1%	
Bingham Creek	CDTS-8357	203	309	Culvert	16'W x 5'H Box Culvert	1.1%	
Bingham Creek	CDTS-8358	204	309	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.8%	
Bingham Creek	CDTS-8359	240	323	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.3%	
Bingham Creek	CDTS-8362	249	327	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.5%	
Bingham Creek	CDTS-8361	253	328	Culvert	144"	2.5%	
Bingham Creek	CDTS-8364	268	344	Open Channel	4' Deep, 4' BW, 3H:1V SSs	0.6%	
Bingham Creek	CDTS-8363	268	344	Culvert	16'W x 5'H Box Culvert	0.9%	
Bingham Creek	CDTS-8366	268	344	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.0%	
Bingham Creek	CDTS-8574	228	344	Culvert	60"	1.7%	Replace with 12'x5'
Bingham Creek	CDTS-7793	237	342	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.3%	
Bingham Creek	CDTS-8367	277	363	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.1%	
Clay Hollow	CDTS-7302	20	20	Open Channel	5' Deep, 4' BW, 3H:1V SSs	2.1%	
Clay Hollow	ML-11669	19	19	Pipe	36"	1.6%	
Clay Hollow	CDTS-7898	77	77	Open Channel	5' Deep, 4' BW, 3H:1V SSs	2.3%	
Clay Hollow	CDTS-7897	57	93	Culvert	30"	2.1%	Replace with 42"
Clay Hollow	CDTS-7899	57	92	Open Channel	4' Deep, 4' BW, 3H:1V SSs	4.7%	

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Major Drainageway	Model ID	Q ₁₀₀ Existing	Q ₁₀₀ Improved	Type	Model Size	Model Slope	Proposed Improvement
Clay Hollow	CDTS-7901	162	194	Bridge	5' Deep, 4' BW, 3H:1V SSs	1.4%	
Clay Hollow	CDTS-7916	165	197	Open Channel	4' Deep, 4' BW, 3H:1V SSs	2.4%	
Clay Hollow	CDTS-7911	139	198	Culvert	48"	1.4%	Replace with 60" culvert
Clay Hollow	CDTS-7917	150	207	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.9%	
Clay Hollow	Link-78	164	219	Open Channel	4' Deep, 4' BW, 3H:1V SSs	1.9%	
Clay Hollow	CDTS-7912	164	218	Culvert	6'W x 4'H Box Culvert	5.2%	
Dry Wash	Link-55	194	194	Open Channel	4' Deep, 4' BW, 3H:1V SSs	3.1%	
Dry Wash	Link-53	253	253	Open Channel	4' Deep, 4' BW, 3H:1V SSs	3.1%	
Unnamed Wash 1	C42	7	7	Open Channel	5' Deep, 4' BW, 3H:1V SSs	5.3%	
Unnamed Wash 1	CDTS-857	287	287	Pipe	60"	1.0%	
Unnamed Wash 1	CDTS-7304	43	43	Culvert	54"	1.0%	
Unnamed Wash 1	CDTS-7887	43	43	Pipe	5' Deep, 4' BW, 3H:1V SSs	3.2%	
Unnamed Wash 1	CDTS-7892	63	63	Open Channel	5' Deep, 4' BW, 3H:1V SSs	1.6%	
Unnamed Wash 1	CDTS-7921	81	82	Culvert	60"	2.7%	
Unnamed Wash 1	CDTS-7920	82	82	Open Channel	5' Deep, 6' BW, 3H:1V SSs	2.9%	
Unnamed Wash 1	CDTS-7915	86	88	Culvert	6'W x 3'H Box Culvert	2.6%	
Unnamed Wash 1	CDTS-7919	58	88	Pipe	42"	1.0%	
Unnamed Wash 1	CDTS-7918	65	89	Open Channel	5' Deep, 4' BW, 3H:1V SSs	0.2%	
Unnamed Wash 1	CDTS-7913	67	85	Culvert	42"	5.6%	
Unnamed Wash 2	C35	54	54	Open Channel	5' Deep, 4' BW, 3H:1V SSs	3.5%	
Unnamed Wash 2	C36	68	68	Open Channel	5' Deep, 4' BW, 3H:1V SSs	2.4%	
Unnamed Wash 2	C34	11	11	Open Channel	5' Deep, 4' BW, 3H:1V SSs	0.9%	