

Sta	Asset ID	A _{ms} (ac)	NWI (%)	C	Rational						Regression																	
					T = Q	10 D _{1.5}	D ₁	T = Q	25 D _{1.5}	D ₁	T = Q	50 D _{1.5}	D ₁	T = Q	100 D _{1.5}	D ₁	T = Q	10 D _{1.5}	D ₁	T = Q	25 D _{1.5}	D ₁	T = Q	50 D _{1.5}	D ₁	T = Q	100 D _{1.5}	D ₁
1006+50Lt	CB1	0.396	0.0	0.4566	0.8	7	9	1.0	8	10	1.2	9	10	1.3	9	11	0.3	5	6	0.4	6	7	0.5	6	7	0.6	7	8
1011+45Lt	CB2	0.642	0.0	0.4456	1.1	8	10	1.4	9	11	1.6	10	11	1.8	10	12	0.5	6	7	0.6	7	8	0.7	7	8	0.8	8	9
1015+00Lt	CB3	1.527	0.0	0.402	1.8	10	12	2.3	11	13	2.6	12	14	2.9	12	14	1.0	8	9	1.3	9	10	1.5	9	11	1.7	10	12
1016+80Lt	CB4	1.006	0.0	0.3546	1.2	9	10	1.5	9	11	1.7	10	12	2.0	10	12	0.7	7	8	0.9	8	9	1.1	8	9	1.2	9	10
1017+00Lt	CB5	0.096	0.0	0.95	0.6	7	8	0.7	7	8	0.8	7	9	#NUM!	#NUM!	#####	0.1	4	4	0.1	4	5	0.2	4	5	0.2	4	5
1017+05Rt	CB6	0.26	0.0	0.92	1.2	9	10	1.5	9	11	1.7	10	12	1.9	10	12	0.2	5	6	0.3	5	6	0.3	5	6	0.4	6	7
1017+75Lt	CB8	0.195	0.0	0.95	1.0	8	10	1.2	9	10	1.4	9	11	1.6	10	11	0.2	4	5	0.2	5	6	0.3	5	6	0.3	5	6
1017+75Lt	Fbasin9	14.62	0.0	0.4	8.7	19	22	10.9	20	24	12.5	21	25	14.2	22	27	6.1	16	19	7.9	18	21	9.3	19	23	10.9	20	24
1017+65Rt	CB7	0.172	0.0	0.95	0.9	8	9	1.1	8	10	1.3	9	11	1.5	9	11	0.2	4	5	0.2	5	6	0.2	5	6	0.3	5	6
1017+65Lt	CB8	0.227	0.0	0.95	1.1	8	10	1.4	9	11	1.6	10	11	1.8	10	12	0.2	5	5	0.3	5	6	0.3	5	6	0.4	6	7
1020+60Rt	CB12	0.022	0.0	0.95	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####	0.0	2	3	0.0	3	3	0.0	3	3	0.1	3	3
1021+10Rt	CB11	0.19	0.0	0.95	1.0	8	10	1.2	9	10	1.4	9	11	1.6	10	11	0.2	4	5	0.2	5	6	0.3	5	6	0.3	5	6
1020+95Lt	CB10	0.093	0.0	0.95	0.6	7	8	0.7	7	8	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####	0.1	4	4	0.1	4	4	0.2	4	5	0.2	4	5
1022+55Lt	CB13	0.1375	0.0	0.95	0.8	7	9	1.0	8	9	1.1	8	10	1.2	9	10	0.1	4	5	0.2	4	5	0.2	5	6	0.2	5	6
1022+80Lt		0.07	0.0	0.95	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####	0.1	3	4	0.1	4	4	0.1	4	4	0.1	4	5
1023+30Lt		0.0155	0.0	0.95	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####	0.0	2	3	0.0	2	3	0.0	2	3	0.0	3	3
1023+50Lt	CB16	0.795	0.0	0.57755	1.7	10	12	2.1	11	13	2.4	11	13	2.7	12	14	0.6	7	8	0.7	7	9	0.9	8	9	1.0	8	10
1025+50Lt	CB17	3.7		0.3	2.6	12	14	3.2	13	15	3.7	13	16	4.2	14	17	2.0	11	12	2.6	12	14	3.0	12	15	3.5	13	16
1025+45Rt	CB18	0.0215	0.0	0.95	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####	0.0	2	3	0.0	3	3	0.0	3	3	0.1	3	3
1030+65Lt	CB19	0.635	0.0	0.495	1.2	9	10	1.5	9	11	1.7	10	12	2.0	10	12	0.5	6	7	0.6	7	8	0.7	7	8	0.8	8	9
1033+50Lt	CB20	2.16	0.0	0.3	1.8	10	12	2.2	11	13	2.5	11	14	2.8	12	14	1.3	9	11	1.7	10	12	2.0	10	12	2.3	11	13
1033+90Lt	CB21	0.0864	0.0	0.95	0.5	6	8	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####	0.1	3	4	0.1	4	4	0.1	4	5	0.2	4	5
1033+90Lt	Stub22	1.28	0.0	0.3	1.2	9	10	1.5	9	11	1.7	10	12	1.9	10	12	0.9	8	9	1.1	8	10	1.3	9	11	1.5	9	11
1039+00Lt	CB23	0.096	0.0	0.9	0.6	6	8	0.7	7	8	0.8	7	9	#NUM!	#NUM!	#####	0.1	4	4	0.1	4	5	0.2	4	5	0.2	4	5
1039+00Rt	CB24	0	0.0	0.95	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#####	#NUM!	#NUM!	#####	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
1041+00Lt	Stub25	0.53	0.0	0.3	0.7	7	8	0.8	7	9	0.9	8	9	1.1	8	10	0.4	6	7	0.5	6	8	0.6	7	8	0.7	7	8
1041+25Lt	CB26	0.25	0.0	0.95	1.2	9	10	1.5	9	11	1.7	10	12	1.9	10	12	0.2	5	6	0.3	5	6	0.3	5	6	0.4	6	7
1045+05Rt	CB27	0.419	0.0	0.95	1.8	10	12	2.2	11	13	2.5	11	14	2.8	12	14	0.3	5	6	0.4	6	7	0.5	6	7	0.6	7	8
1046+90Lt	CB28	1.01	0.0	0.3	1.0	8	10	1.3	9	10	1.5	9	11	1.7	10	12	0.7	7	8	0.9	8	9	1.1	8	10	1.2	9	10
1047+00Lt	CB29	3.415	0.0	0.3	2.5	11	14	3.1	12	15	3.5	13	15	4.0	14	16	1.9	10	12	2.4	11	13	2.9	12	14	3.3	13	15
1052+00Lt	CB30	2.63	0.0	0.2	1.4	9	11	1.7	10	12	1.9	10	12	2.2	11	13	1.5	9	11	2.0	10	12	2.3	11	13	2.7	12	14
1056+50Lt	CB31	4.11	0.0	0.2	1.9	10	12	2.3	11	13	2.7	12	14	3.0	12	15	2.2	11	13	2.8	12	14	3.3	13	15	3.9	14	16
1116+00	pe43 1217	29.26	0.0	0.2	6.6	17	20	8.1	18	21	9.4	19	23	10.6	20	24	10.8	20	24	13.9	22	26	16.5	24	28	19.2	25	30
1120+85	pe44 1217	0.77	0.0	0.2	0.6	7	8	0.7	7	8	0.8	7	9	0.9	8	9	0.6	7	8	0.7	7	8	0.8	8	9	1.0	8	9
1123+00	pipe45	69.98	0.0	0.2	12.1	21	25	14.8	23	27	16.9	24	29	19.3	25	30	21.9	27	32	28.4	29	35	33.5	31	37	39.1	33	40

AssetID	A _{ws} (ac)	NWI (%)	C	A (mi ²)	T = 10						T = 25						T = 50						T = 100									
					P _{SLT} (in)	T _c (hr)	T _c (min)	i _r (in/hr)	Q	D _{1.5}	D ₁	P _{SLT} (in)	T _c (hr)	T _c (min)	i _r (in/hr)	Q	D _{1.5}	D ₁	P _{SLT} (in)	T _c (hr)	T _c (min)	i _r (in/hr)	Q	D _{1.5}	D ₁	P _{SLT} (in)	T _c (hr)	T _c (min)	i _r (in/hr)	Q	D _{1.5}	D ₁
CB1	0.396	0	0.4566	0.001	0.908	0.11	10.5	4.49	0.8	7	9	1.1	0.10	10.1	5.54	1.0	8	10	1.24	0.10	9.9	6.36	1.2	9	10	1.39	0.10	9.7	7.20	1.3	9	11
CB2	0.642	0	0.4456	0.001	0.908	0.13	13.3	3.92	1.1	8	10	1.1	0.13	12.8	4.83	1.4	9	11	1.24	0.13	12.5	5.54	1.6	10	11	1.39	0.12	12.3	6.26	1.8	10	12
CB3	1.527	0	0.402	0.002	0.908	0.20	20.1	2.99	1.8	10	12	1.1	0.19	19.4	3.69	2.3	11	13	1.24	0.19	19.0	4.23	2.6	12	14	1.39	0.19	18.6	4.79	2.9	12	14
CB4	1.006	0	0.3546	0.002	0.908	0.16	16.5	3.40	1.2	9	10	1.1	0.16	15.9	4.21	1.5	9	11	1.24	0.16	15.5	4.84	1.7	10	12	1.39	0.15	15.2	5.48	2.0	10	12
CB5	0.096	0	0.95	0.000	0.908	0.05	5.3	6.40	0.6	7	8	1.1	0.05	5.1	7.83	0.7	7	8	1.24	0.05	5.0	8.93	0.8	7	9	1.39	0.05	4.9	#NUM!	###	###	###
CB6	0.26	0	0.92	0.000	0.908	0.09	8.6	5.08	1.2	9	10	1.1	0.08	8.3	6.26	1.5	9	11	1.24	0.08	8.1	7.18	1.7	10	12	1.39	0.08	7.9	8.11	1.9	10	12
CB8	0.195	0	0.95	0.000	0.908	0.07	7.5	5.48	1.0	8	10	1.1	0.07	7.2	6.74	1.2	9	10	1.24	0.07	7.1	7.72	1.4	9	11	1.39	0.07	6.9	8.71	1.6	10	11
Flash9	14.62	0	0.4	0.023	0.908	0.60	59.8	1.50	8.7	19	22	1.1	0.58	57.7	1.86	10.9	20	24	1.24	0.56	56.4	2.14	12.5	21	25	1.39	0.55	55.2	2.43	14.2	22	27
CB7	0.172	0	0.95	0.000	0.908	0.07	7.0	5.65	0.9	8	9	1.1	0.07	6.8	6.95	1.1	8	10	1.24	0.07	6.6	7.95	1.3	9	11	1.39	0.06	6.5	8.96	1.5	9	11
CB8	0.227	0	0.95	0.000	0.908	0.08	8.0	5.27	1.1	8	10	1.1	0.08	7.8	6.49	1.4	9	11	1.24	0.08	7.6	7.44	1.6	10	11	1.39	0.07	7.4	8.40	1.8	10	12
CB12	0.022	0	0.95	0.000	0.908	0.03	2.6	6.40	0.6	7	8	1.1	0.03	2.5	7.83	0.7	7	8	1.24	0.02	2.5	8.93	0.8	7	9	1.39	0.02	2.4	9.40	1.2	9	10
CB11	0.19	0	0.95	0.000	0.908	0.07	7.4	5.52	1.0	8	10	1.1	0.07	7.1	6.79	1.2	9	10	1.24	0.07	7.0	7.77	1.4	9	11	1.39	0.07	6.8	8.76	1.6	10	11
CB10	0.093	0	0.95	0.000	0.908	0.05	5.2	6.43	0.6	7	8	1.1	0.05	5.0	7.87	0.7	7	8	1.24	0.05	4.9	8.93	0.8	7	9	1.39	0.05	4.8	9.40	1.2	9	10
CB13	0.1375	0	0.95	0.000	0.908	0.06	6.3	5.95	0.8	7	9	1.1	0.06	6.1	7.30	1.0	8	9	1.24	0.06	6.0	8.34	1.1	8	10	1.39	0.06	5.8	9.40	1.2	9	10
0	0.07	0	0.95	0.000	0.908	0.05	4.6	6.40	0.6	7	8	1.1	0.04	4.4	7.83	0.7	7	8	1.24	0.04	4.3	8.93	0.8	7	9	1.39	0.04	4.2	9.40	1.2	9	10
CB16	0.795	0	0.57755	0.001	0.908	0.15	14.7	3.68	1.7	10	12	1.1	0.14	14.2	4.54	2.1	11	13	1.24	0.14	13.9	5.22	2.4	11	13	1.39	0.14	13.6	5.90	2.7	12	14
CB17	3.7	0	0.3	0.006	0.908	0.31	30.8	2.35	2.6	12	14	1.1	0.30	29.8	2.92	3.2	13	15	1.24	0.29	29.1	3.36	3.7	13	16	1.39	0.28	28.5	3.81	4.2	14	17
CB18	0.0215	0	0.95	0.000	0.908	0.03	2.6	6.40	0.6	7	8	1.1	0.02	2.5	7.83	0.7	7	8	1.24	0.02	2.4	8.93	0.8	7	9	1.39	0.02	2.4	9.40	1.2	9	10
CB19	0.635	0	0.495	0.001	0.908	0.13	13.2	3.93	1.2	9	10	1.1	0.13	12.7	4.84	1.5	9	11	1.24	0.12	12.5	5.55	1.7	10	12	1.39	0.12	12.2	6.28	2.0	10	12
CB20	2.16	0	0.3	0.003	0.908	0.24	23.8	2.74	1.8	10	12	1.1	0.23	23.0	3.37	2.2	11	13	1.24	0.22	22.5	3.85	2.5	11	14	1.39	0.22	22.0	4.35	2.8	12	14
CB21	0.0864	0	0.95	0.000	0.908	0.05	5.0	6.52	0.5	6	8	1.1	0.05	4.9	7.87	0.7	7	8	1.24	0.05	4.8	8.93	0.8	7	9	1.39	0.05	4.7	9.40	1.2	9	10
Stub22	1.28	0	0.3	0.002	0.908	0.18	18.5	3.15	1.2	9	10	1.1	0.18	17.8	3.89	1.5	9	11	1.24	0.17	17.5	4.47	1.7	10	12	1.39	0.17	17.1	5.06	1.9	10	12
CB23	0.096	0	0.9	0.000	0.908	0.05	5.3	6.40	0.6	6	8	1.1	0.05	5.1	7.83	0.7	7	8	1.24	0.05	5.0	8.93	0.8	7	9	1.39	0.05	4.9	9.40	1.2	9	10
CB24	0	0	0.95	0.000	0.908	0.00	0.0	#NUM!	#NUM!	#NUM!	#NUM!	1.1	0.00	0.0	#NUM!	#NUM!	#NUM!	#NUM!	1.24	0.00	0.0	#NUM!	#NUM!	#NUM!	#NUM!	1.39	0.00	0.0	#NUM!	#NUM!	#NUM!	#NUM!
Stub25	0.53	0	0.3	0.001	0.908	0.12	12.1	4.13	0.7	7	8	1.1	0.12	11.7	5.09	0.8	7	9	1.24	0.11	11.4	5.84	0.9	8	9	1.39	0.11	11.2	6.61	1.1	8	10
CB26	0.25	0	0.95	0.000	0.908	0.08	8.4	5.14	1.2	9	10	1.1	0.08	8.1	6.33	1.5	9	11	1.24	0.08	7.9	7.25	1.7	10	12	1.39	0.08	7.8	8.19	1.9	10	12
CB27	0.419	0	0.95	0.001	0.908	0.11	10.8	4.42	1.8	10	12	1.1	0.10	10.4	5.45	2.2	11	13	1.24	0.10	10.2	6.26	2.5	11	14	1.39	0.10	10.0	7.08	2.8	12	14
CB28	1.01	0	0.3	0.002	0.908	0.16	16.5	3.40	1.0	8	10	1.1	0.16	15.9	4.20	1.3	9	10	1.24	0.16	15.6	4.83	1.5	9	11	1.39	0.15	15.2	5.48	1.7	10	12
CB29	3.415	0	0.3	0.005	0.908	0.30	29.7	2.42	2.5	11	14	1.1	0.29	28.6	3.00	3.1	12	15	1.24	0.28	28.0	3.44	3.5	13	15	1.39	0.27	27.4	3.90	4.0	14	16
CB30	2.63	0	0.2	0.004	0.908	0.26	26.2	2.61	1.4	9	11	1.1	0.25	25.2	3.21	1.7	10	12	1.24	0.25	24.7	3.67	1.9	10	12	1.39	0.24	24.2	4.15	2.2	11	13
CB31	4.11	0	0.2	0.006	0.908	0.32	32.4	2.25	1.9	10	12	1.1	0.31	31.3	2.80	2.3	11	13	1.24	0.31	30.6	3.23	2.7	12	14	1.39	0.30	30.0	3.67	3.0	12	15
pe43 1217	29.26	0	0.2	0.046	0.908	0.84	83.5	1.13	6.6	17	20	1.1	0.81	80.6	1.39	8.1	18	21	1.24	0.79	78.8	1.60	9.4	19	23	1.39	0.77	77.2	1.82	10.6	20	24
pe44 1217	0.77	0	0.2	0.001	0.908	0.14	14.5	3.72	0.6	7	8	1.1	0.14	14.0	4.59	0.7	7	8	1.24	0.14	13.7	5.26	0.8	7	9	1.39	0.13	13.4	5.95	0.9	8	9
Pipe45	69.98	0	0.2	0.109	0.908	1.27	127.1	0.87	12.1	21	25	1.1	1.23	122.7	1.06	14.8	23	27	1.24	1.20	120.0	1.21	16.9	24	29	1.39	1.17	117.4	1.38	19.3	25	30
0	0	0	0.15	0.000	0.908	0.00	0.0	#NUM!	#NUM!	#NUM!	#NUM!	1.1	0.00	0.0	#NUM!	#NUM!	#NUM!	#NUM!	1.24	0.00	0.0	#NUM!	#NUM!	#NUM!	#NUM!	1.39	0.00	0.0	#NUM!	#NUM!	#NUM!	#NUM!

Point precipitation frequency estimates (inches/hour)
 NOAA Atlas 14 Volume 10 Version 2
 Data type: Precipitation intensity
 Time series type: Partial duration
 Project area: Northeastern States
 Location name (ESRI Maps): Kin Maine USA
 Station Name: -
 Latitude: 44.9562°
 Longitude: -70.1536°
 Elevation (USGS): 596.55 ft

Paste in table from Atlas 14 CSV file for IDF in green cells; do not overwrite orange cells; make sure orange cell durations match corresponding rows in column 1

PRECIPITATION FREQUENCY ESTIMATES

by duration for ARI (years):	1	2	5	10	25	50	100	200	500	1000	Dur (min)
5-min:	3.65	4.37	5.56	6.54	7.9	8.94	9.98	11.3	12.9	14.2	5
10-min:	2.58	3.1	3.94	4.63	5.59	6.33	7.07	7.97	9.16	10.1	10
15-min:	2.02	2.43	3.08	3.63	4.38	4.96	5.54	6.25	7.19	7.9	15
30-min:	1.33	1.6	2.04	2.4	2.9	3.28	3.67	4.14	4.76	5.23	30
60-min:	0.828	0.994	1.27	1.49	1.8	2.04	2.28	2.57	2.96	3.25	60
2-hr:	0.545	0.637	0.787	0.911	1.08	1.21	1.35	1.5	1.71	1.87	120
3-hr:	0.424	0.491	0.599	0.689	0.813	0.908	1	1.12	1.27	1.38	180
6-hr:	0.275	0.316	0.384	0.44	0.518	0.578	0.637	0.708	0.801	0.872	360
12-hr:	0.173	0.2	0.246	0.283	0.335	0.375	0.415	0.462	0.525	0.572	720
24-hr:	0.107	0.124	0.153	0.177	0.21	0.235	0.261	0.291	0.33	0.36	1440
2-day:	0.064	0.074	0.091	0.105	0.124	0.139	0.153	0.17	0.191	0.208	
3-day:	0.048	0.055	0.067	0.077	0.091	0.101	0.112	0.123	0.138	0.15	
4-day:	0.039	0.044	0.054	0.062	0.073	0.081	0.089	0.098	0.11	0.119	
7-day:	0.026	0.03	0.036	0.041	0.048	0.054	0.059	0.064	0.072	0.077	
10-day:	0.021	0.024	0.029	0.033	0.038	0.042	0.046	0.05	0.055	0.059	
20-day:	0.015	0.017	0.02	0.022	0.025	0.027	0.03	0.032	0.035	0.037	
30-day:	0.013	0.014	0.016	0.017	0.02	0.022	0.023	0.025	0.027	0.028	
45-day:	0.01	0.011	0.013	0.014	0.016	0.017	0.019	0.02	0.021	0.022	
60-day:	0.009	0.01	0.011	0.012	0.014	0.015	0.016	0.017	0.018	0.018	

Date/time (GMT): Tue Feb 26 13:15:04 2019
 pyRunTime: 0.0272829532623

Point precipitation frequency estimates (inches)
 NOAA Atlas 14 Volume 10 Version 2
 Data type: Precipitation depth
 Time series type: Partial duration
 Project area: Northeastern States
 Location name (ESR Maine USA
 Station Name: -
 Latitude: 44.9562°
 Longitude: -70.1536°
 Elevation (USGS): 596.55 ft

Paste in table from Atlas 14 CSV file for DDF
 in green cells

PRECIPITATION FREQUENCY ESTIMATES

by duration for ARI	1	2	5	10	25	50	100	200	500	1000	Dur (min)
5-min:	0.304	0.364	0.463	0.545	0.658	0.745	0.832	0.938	1.08	1.18	5
10-min:	0.43	0.516	0.656	0.772	0.932	1.06	1.18	1.33	1.53	1.68	10
15-min:	0.506	0.607	0.771	0.908	1.1	1.24	1.39	1.56	1.8	1.97	15
30-min:	0.667	0.801	1.02	1.2	1.45	1.64	1.83	2.07	2.38	2.61	30
60-min:	0.828	0.994	1.27	1.49	1.8	2.04	2.28	2.57	2.96	3.25	60
2-hr:	1.09	1.27	1.57	1.82	2.16	2.43	2.69	3.01	3.42	3.74	120
3-hr:	1.27	1.47	1.8	2.07	2.44	2.73	3.01	3.35	3.8	4.14	180
6-hr:	1.64	1.89	2.3	2.64	3.1	3.46	3.82	4.24	4.8	5.22	360
12-hr:	2.08	2.41	2.96	3.41	4.04	4.52	5	5.57	6.32	6.89	720
24-hr:	2.56	2.98	3.68	4.25	5.04	5.65	6.26	6.97	7.92	8.63	1440
2-day:	3.08	3.57	4.37	5.04	5.95	6.66	7.37	8.15	9.19	9.98	
3-day:	3.42	3.95	4.81	5.53	6.52	7.28	8.04	8.86	9.95	10.8	
4-day:	3.7	4.26	5.17	5.93	6.97	7.77	8.58	9.43	10.6	11.4	
7-day:	4.43	5.05	6.08	6.92	8.09	8.99	9.89	10.8	12	12.9	
10-day:	5.12	5.8	6.91	7.82	9.09	10.1	11	12	13.3	14.2	
20-day:	7.26	8.06	9.37	10.5	12	13.1	14.3	15.3	16.6	17.6	
30-day:	9.03	9.92	11.4	12.6	14.3	15.6	16.9	17.9	19.3	20.3	
45-day:	11.2	12.2	13.8	15.2	17.1	18.6	20	21.1	22.6	23.6	
60-day:	12.9	14	15.9	17.4	19.5	21.1	22.7	23.8	25.3	26.5	

Date/time (GMT): Tue Feb 26 13:13:47 2019
 pyRunTime: 0.0255270004272

Sta	Asset ID	A _{ws} (ac)	NWI (%)	C	Rational						Regression																	
					T = Q	10 D _{1.5}	D ₁	T = Q	25 D _{1.5}	D ₁	T = Q	50 D _{1.5}	D ₁	T = Q	100 D _{1.5}	D ₁	T = Q	10 D _{1.5}	D ₁	T = Q	25 D _{1.5}	D ₁	T = Q	50 D _{1.5}	D ₁	T = Q	100 D _{1.5}	D ₁
1064+00	32	14.53	0.0	0.2	4.4	14	17	5.4	15	18	6.2	16	19	7.1	17	20	6.1	16	19	7.9	18	21	9.3	19	23	10.8	20	24
1073+35	33	0.61	0.0	0.2	0.5	6	7	0.6	7	8	0.7	7	8	0.8	7	9	0.5	6	7	0.6	7	8	0.7	7	8	0.8	7	9
1074+00Rt	34	1.15	0.0	0.25	0.9	8	9	1.2	9	10	1.3	9	11	1.5	9	11	0.8	7	9	1.0	8	10	1.2	9	10	1.4	9	11
1075+00	C835	10.78	0.0	0.25	4.5	14	17	5.5	16	18	6.3	16	19	7.1	17	20	4.8	15	17	6.2	16	19	7.3	17	21	8.5	18	22
1076+00Lt	36	10.326	0.0	0.2	3.5	13	15	4.3	14	17	4.9	15	18	5.5	16	18	4.6	14	17	6.0	16	19	7.0	17	20	8.2	18	22
1088+30	37	23.45	0.0	0.2	5.7	16	19	7.1	17	20	8.2	18	22	9.3	19	23	9.0	19	22	11.6	21	25	13.7	22	26	16.0	24	28
1092+50	38	5.52	0.0	0.2	2.2	11	13	2.8	12	14	3.2	13	15	3.6	13	16	2.8	12	14	3.6	13	16	4.2	14	17	4.9	15	18
1100+00Lt	C839	4.24	0.0	0.25	1.9	10	12	2.3	11	13	2.7	12	14	3.1	12	15	2.2	11	13	2.9	12	14	3.4	13	15	4.0	14	16
1102+20	40	1.68	0.0	0.2	1.0	8	9	1.2	9	10	1.4	9	11	1.6	10	11	1.1	8	10	1.4	9	11	1.6	10	11	1.9	10	12
1105+00	41	1.42	0.0	0.2	0.9	8	9	1.1	8	10	1.2	9	10	1.4	9	11	0.9	8	9	1.2	9	10	1.4	9	11	1.6	10	11
1110+00	42	4.46	0.0	0.2	1.9	10	12	2.4	11	13	2.8	12	14	3.2	13	15	2.3	11	13	3.0	12	15	3.5	13	16	4.1	14	16
1116+00	43	20	0.0	0.2	5.2	15	18	6.5	17	20	7.5	17	21	8.6	18	22	7.9	18	21	10.2	20	23	12.1	21	25	14.1	22	27
1120+85	44	1.33	0.0	0.2	0.8	8	9	1.0	8	10	1.2	9	10	1.3	9	11	0.9	8	9	1.1	8	10	1.3	9	11	1.5	10	11
1123+00	45	1.4	0.0	0.2	0.9	8	9	1.1	8	10	1.2	9	10	1.4	9	11	0.9	8	9	1.2	9	10	1.4	9	11	1.6	10	11
1074+00Rt	34Total	11.93	0.0	0.25	4.8	15	17	5.9	16	19	6.8	17	20	7.7	18	21	5.2	15	18	6.7	17	20	7.9	18	21	9.2	19	23

Sta	Asset ID	A _{WS} (ac)	NWI (%)	C	A (m ²)	T = 10					T = 25					T = 50					T = 100												
						P _{STR} (in)	T _L (hr)	T _C (min)	I _r (in/hr)	Q	D _{1.5}	D ₁	P _{STR} (in)	T _L (hr)	T _C (min)	I _r (in/hr)	Q	D _{1.5}	D ₁	P _{STR} (in)	T _L (hr)	T _C (min)	I _r (in/hr)	Q	D _{1.5}	D ₁	P _{STR} (in)	T _L (hr)	T _C (min)	I _r (in/hr)	Q	D _{1.5}	D ₁
1064+00	32	14.53	0	0.2	0.023	0.908	0.60	59.6	1.50	4.4	14	17	1.1	0.58	57.5	1.87	5.4	15	18	1.24	0.56	56.3	2.15	6.2	16	19	1.39	0.55	55.1	2.44	7.1	17	20
1073+35	33	0.61	0	0.2	0.001	0.908	0.13	12.9	3.98	0.5	6	7	1.1	0.12	12.5	4.90	0.6	7	8	1.24	0.12	12.2	5.62	0.7	7	8	1.39	0.12	12.0	6.35	0.8	7	9
1074+00RT	34	1.15	0	0.25	0.002	0.908	0.18	17.6	3.26	0.9	8	9	1.1	0.17	16.9	4.02	1.2	9	10	1.24	0.17	16.6	4.63	1.3	9	11	1.39	0.16	16.2	5.24	1.5	9	11
1075+00	CB35	10.78	0	0.25	0.017	0.908	0.52	51.6	1.66	4.5	14	17	1.1	0.50	49.8	2.04	5.5	16	18	1.24	0.49	48.7	2.34	6.3	16	19	1.39	0.48	47.7	2.65	7.1	17	20
1076+00LT	36	10.326	0	0.2	0.016	0.908	0.51	50.6	1.68	3.5	13	15	1.1	0.49	48.8	2.07	4.3	14	17	1.24	0.48	47.7	2.37	4.9	15	18	1.39	0.47	46.7	2.68	5.5	16	18
1088+30	37	23.45	0	0.2	0.037	0.908	0.75	75.1	1.22	5.7	16	19	1.1	0.72	72.4	1.51	7.1	17	20	1.24	0.71	70.8	1.75	8.2	18	22	1.39	0.69	69.4	1.99	9.3	19	23
1092+50	38	5.52	0	0.2	0.009	0.908	0.37	37.4	2.02	2.2	11	13	1.1	0.36	36.1	2.51	2.8	12	14	1.24	0.35	35.3	2.89	3.2	13	15	1.39	0.35	34.5	3.28	3.6	13	16
1103+00LT	CB39	4.24	0	0.2	0.007	0.908	0.33	32.9	2.23	1.9	10	12	1.1	0.32	31.8	2.77	2.3	11	13	1.24	0.31	31.1	3.19	2.7	12	14	1.39	0.30	30.4	3.63	3.1	12	15
1102+20	40	1.68	0	0.2	0.003	0.908	0.21	21.1	2.92	1.0	8	9	1.1	0.20	20.3	3.59	1.2	9	10	1.24	0.20	19.9	4.12	1.4	9	11	1.39	0.19	19.5	4.66	1.6	10	11
1105+00	41	1.42	0	0.2	0.002	0.908	0.19	19.4	3.06	0.9	8	9	1.1	0.19	18.8	3.77	1.1	8	10	1.24	0.18	18.3	4.33	1.2	9	10	1.39	0.18	18.0	4.90	1.4	9	11
1110+00	42	4.46	0	0.2	0.007	0.908	0.34	33.7	2.18	1.9	10	12	1.1	0.33	32.6	2.72	2.4	11	13	1.24	0.32	31.8	3.13	2.8	12	14	1.39	0.31	31.2	3.56	3.2	13	15
1116+00	43	20	0	0.2	0.031	0.908	0.70	69.5	1.30	5.2	15	18	1.1	0.67	67.1	1.62	6.5	17	20	1.24	0.66	65.6	1.88	7.5	17	21	1.39	0.64	64.2	2.14	8.6	18	22
1120+85	44	1.33	0	0.2	0.002	0.908	0.19	18.8	3.11	0.8	8	9	1.1	0.18	18.2	3.84	1.0	8	10	1.24	0.18	17.8	4.41	1.2	9	10	1.39	0.17	17.4	5.00	1.3	9	11
1123+00	45	1.4	0	0.2	0.002	0.908	0.19	19.3	3.07	0.9	8	9	1.1	0.19	18.6	3.78	1.1	8	10	1.24	0.18	18.2	4.34	1.2	9	10	1.39	0.18	17.8	4.92	1.4	9	11
0	0	0	0	0	0.000	0.908	0.00	0.0	#NUM!	#NUM!	8	9	1.1	0.00	0.0	#NUM!	1.1	8	10	1.24	0.00	0.0	4.34	1.2	9	10	1.39	0.00	0.0	4.92	1.4	9	11
1074+00RT	34Total	11.93	0	0.25	0.019	0.908	0.54	54.2	1.61	4.8	15	17	1.1	0.52	52.3	1.99	5.9	16	19	1.24	0.51	51.2	2.28	6.8	17	20	1.39	0.50	50.1	2.58	7.7	18	21

0.1	0.1		0.3		0.2	0.3		2.2	0.1		2.5	1.7	1.6	0.5	0.1
5.0	5.0		3.2		3.6	4.6		5.0	4.2		3.0	4.9	5.9	7.6	9.6
8	8		6		7	9		5	6		8	9	10	9	9
0.66	0.66		0.49		0.62	0.78		0.45	0.48		0.53	0.75	0.69	0.61	0.57
77	78		48		70	95		41	46		55	91	81	70	62
3.56	3.56		2.52		2.62	3.16		4.09	3.37		3.54	3.38	6.45	8.58	11.24
4.5	4.5		3.2		3.3	4.0		5.2	4.3		2.9	4.3	5.3	7.0	9.2
0.25	0.25		0.25		0.25	0.25		0.25	0.25		0.31	0.25	0.31	0.31	0.31
0.79	0.79		0.79		0.79	0.79		0.79	0.79		1.23	0.79	1.23	1.23	1.23
12	12		12		12	12		12	12		15	12	15	15	15
11	11		9		11	12		9	9		12	12	14	13	13
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
2.730	2.776		1.215		1.850	3.009		1.684	1.550		1.961	3.073	5.252	5.968	6.955
0.0		0.0	0.0	0.0		0.0	0.0								
2.730	2.776		1.215		1.850	3.009		1.684	1.550		1.961	3.073	5.252	5.968	6.955
2.5	2.5		3.9		2.9	2.8		4.2	3.9		2.4	2.3	2.2	2.2	2.1
0.30	0.30		0.50		0.30	0.30		0.95	0.95		0.20	0.20	0.23	0.25	0.28
3.7000	3.7215		0.6350		2.1600	3.5264		0.4190	0.4190		4.1100	6.7400	10.1550	10.9350	11.4500
30.80	30.88		13.20		23.80	23.96		10.80	13.00		32.40	34.94	36.65	38.27	38.77
0.30	0.95		0.50		0.30	0.30		0.95	0.95		0.20	0.20	0.30	0.51	0.94
3.7000	0.0215		0.6350		2.1600	1.3664		0.4190	0.0000		4.1100	2.6300	3.4150	0.7800	0.5150
30.8	5.0		13.2		23.8	18.5		10.8	5.0		32.4	26.2	29.7	15.6	30.0
0.0100	0.0100		0.0050		0.0054	0.0079		0.0132	0.0089		0.0030	0.0090	0.0100	0.0177	0.0303
569.69	569.20		569.86		563.93	562.93		572.66	571.91		587.40	582.65	576.72	572.41	570.60
569.94	569.43	0.00	570.14	0.00	564.12	563.48		581.30	572.16		588.75	587.15	582.40	576.47	571.66
25.00	23.00	0.00	56.00	0.00	35.00	70.00	0.00	655.00	28.00	0.00	450.00	500.00	570.00	230.00	35.00
25	23		56		35	70		655	28		450	500	570	230	35
0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
CB17	CB18		CB19		CB20	CB21		CB27	CB24		CB31	CB30	CB29&28	CB26&25	CB23

0.1	0.3		0.3	0.1			0.2
5.8	5.7		4.0	4.8			4.6
9	9		4	7			15
0.77	0.61		0.37	0.57			0.81
94	70		30	62			98
3.97	6.46		3.56	3.56			7.21
5.1	5.3		4.5	4.5			4.1
0.25	0.31		0.25	0.25			0.38
0.79	1.23		0.79	0.79			1.77
12	15		12	12			18
12	13		8	10			18
1	1	1	1	1	1	1	1
0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
3.727	4.498		1.055	2.213			7.095
3.727	4.498		1.055	2.213			7.095
1.8	1.8		3.1	2.4			1.6
0.20	0.23		0.15	0.22			0.30
10.3260	10.7800		2.2400	4.2400			14.6200
50.60	50.73		20.00	32.90			59.80
0.20	0.95		0.15	0.30			0.30
10.3260	0.4540		2.2400	2.0000			14.6200
50.6	5.0		20.0	32.9			59.8
0.0124	0.0100		0.0100	0.0100			0.0047
599.94	600.75						599.34
600.50	601.75		0.60	0.30			599.58
45.00	100.00	0.00	60.00	30.00	0.00	0.00	51.00
45	100		60	30			51
0	0		0	0			
36	CB35		39A	39			34

Hydraulic Analysis Report

Project Data

Project Title:

Designer:

Project Date: Wednesday, January 16, 2019

Project Units: U.S. Customary Units

Notes:

Curb and Gutter Analysis: CB21011p50Curb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0050 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 5.7654 ft

Gutter Result Parameters

Design Flow: 1.1000 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.5824 ft²

E_o (Gutter Flow to Total Flow): 0.9983

Gutter Depth at Curb: 2.5837 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 0.8699 cfs

Bypass Flow: 0.2301 cfs

Approach Velocity: 1.8887 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.7908

Curb and Gutter Analysis: CB31015LtCurb and Gutter Analysis 2

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0240 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 5.0978 ft

Gutter Result Parameters

Design Flow: 2.0300 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.5099 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 2.4235 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.6507 cfs

Bypass Flow: 0.3793 cfs

Approach Velocity: 3.9814 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.8131

Curb and Gutter Analysis: CB41016p80Curb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 6.2819 ft

Gutter Result Parameters

Design Flow: 1.5800 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.6446 ft²

Eo (Gutter Flow to Total Flow): 0.9940

Gutter Depth at Curb: 2.7076 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.1703 cfs

Bypass Flow: 0.4097 cfs

Approach Velocity: 2.4511 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.7407

Curb and Gutter Analysis: CB51017p20LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 4.7749 ft

Gutter Result Parameters

Design Flow: 1.0100 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.4780 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 2.3460 in

Inlet Input Parameters

Inlet Location: Inlet in Sag

Percent Clogging: 0.0000 %

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Perimeter: 6.0000 ft

Effective Perimeter: 6.0000 ft

Area: 3.6000 ft²

Effective Area: 3.6000 ft²

Depth at center of grate: 0.1466 ft

Computed Width of Spread at Sag: 4.3283 ft

Flow type: Weir Flow

Efficiency: 1.0000

Curb and Gutter Analysis: CB81017p70LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0200 ft/ft

Manning's n: 0.0150

Gutter Width: 9.0000 ft

Width of Spread: 7.6035 ft

Gutter Result Parameters

Design Flow: 1.1000 cfs

Gutter Depression: 0.0000 in

Area of Flow: 0.5781 ft²

Eo (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 1.8248 in

Inlet Input Parameters

Inlet Location: Inlet in Sag

Percent Clogging: 0.0000 %

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Perimeter: 6.0000 ft

Effective Perimeter: 6.0000 ft

Area: 3.6000 ft²

Effective Area: 3.6000 ft²

Depth at center of grate: 0.1551 ft

Computed Width of Spread at Sag: 8.7574 ft

Flow type: Weir Flow

Efficiency: 1.0000

Curb and Gutter Analysis: CB61017RtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0340 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Design Flow: 1.2000 cfs

Gutter Result Parameters

Width of Spread: 6.0778 ft

Gutter Depression: 0.8400 in

Area of Flow: 0.5444 ft²

E_o (Gutter Flow to Total Flow): 0.9950

Gutter Depth at Curb: 2.2987 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 0.8936 cfs

Bypass Flow: 0.3064 cfs

Approach Velocity: 2.2043 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.7447

Curb and Gutter Analysis: CB71017+7000RtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0340 ft/ft

Manning's n: 0.0150

Gutter Width: 24.0000 ft

Design Flow: 1.2000 cfs

Gutter Result Parameters

Width of Spread: 5.6384 ft

Gutter Depression: 4.0320 in

Area of Flow: 4.3499 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 5.3852 in

Inlet Input Parameters

Inlet Location: Inlet in Sag

Percent Clogging: 0.0000 %

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Perimeter: 6.0000 ft

Effective Perimeter: 6.0000 ft

Area: 3.6000 ft²

Effective Area: 3.6000 ft²

Depth at center of grate: 0.1644 ft

Computed Width of Spread at Sag: 5.8357 ft

Flow type: Weir Flow

Efficiency: 1.0000

Curb and Gutter Analysis: F91018+00LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0100 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Uniform Gutter Geometry

Manning's n: 0.0150

Gutter Width: 2.0000 ft

Width of Spread: 6.7914 ft

Gutter Result Parameters

Design Flow: 0.9100 cfs

Gutter Depression: 0.0000 in

Area of Flow: 0.4612 ft²

E_o (Gutter Flow to Total Flow): 0.6060

Gutter Depth at Curb: 1.6299 in

Inlet Input Parameters

Inlet Location: Inlet in Sag

Percent Clogging: 0.0000 %

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Perimeter: 6.0000 ft

Effective Perimeter: 6.0000 ft

Area: 3.6000 ft²

Effective Area: 3.6000 ft²

Depth at center of grate: 0.1367 ft

Computed Width of Spread at Sag: 7.8362 ft

Flow type: Weir Flow

Efficiency: 1.0000

Curb and Gutter Analysis: CB121020+55RtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0400 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 1.5684 ft

Gutter Result Parameters

Design Flow: 0.1160 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.2746 ft²

Eo (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 1.5764 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 0.1160 cfs

Bypass Flow: 0.0000 cfs

Approach Velocity: 0.4224 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 1.0000

Curb and Gutter Analysis: CB101020+95LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0200 ft/ft

Manning's n: 0.0150

Gutter Width: 9.0000 ft

Width of Spread: 6.7791 ft

Gutter Result Parameters

Design Flow: 0.8100 cfs

Gutter Depression: 0.0000 in

Area of Flow: 0.4596 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 1.6270 in

Inlet Input Parameters

Inlet Location: Inlet in Sag

Percent Clogging: 0.0000 %

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Perimeter: 6.0000 ft

Effective Perimeter: 6.0000 ft

Area: 3.6000 ft²

Effective Area: 3.6000 ft²

Depth at center of grate: 0.1265 ft

Computed Width of Spread at Sag: 7.3257 ft

Flow type: Weir Flow

Efficiency: 1.0000

Curb and Gutter Analysis: CB111021+15RtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0200 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Uniform Gutter Geometry

Manning's n: 0.0150

Gutter Width: 12.0000 ft

Width of Spread: 6.1784 ft

Gutter Result Parameters

Design Flow: 1.0000 cfs

Gutter Depression: 0.0000 in

Area of Flow: 0.3817 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 1.4828 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 0.6846 cfs

Bypass Flow: 0.3154 cfs

Approach Velocity: 2.6197 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.6846

Curb and Gutter Analysis: CB131022+55LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 9.0000 ft

Width of Spread: 5.3459 ft

Gutter Result Parameters

Design Flow: 1.3650 cfs

Gutter Depression: 2.1600 in

Area of Flow: 1.0958 ft²

Eo (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 3.4430 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.1584 cfs

Bypass Flow: 0.2066 cfs

Approach Velocity: 1.2457 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.8487

Curb and Gutter Analysis: CB161023+40LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 8.6834 ft

Gutter Result Parameters

Design Flow: 2.7150 cfs

Gutter Depression: 1.2000 in

Area of Flow: 1.0040 ft²

E_o (Gutter Flow to Total Flow): 0.9416

Gutter Depth at Curb: 3.2840 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.6272 cfs

Bypass Flow: 1.0878 cfs

Approach Velocity: 2.7042 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.5993

Curb and Gutter Analysis: CB171025+50LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 8.4788 ft

Gutter Result Parameters

Design Flow: 2.6000 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.9689 ft²

E_o (Gutter Flow to Total Flow): 0.9476

Gutter Depth at Curb: 3.2349 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.5849 cfs

Bypass Flow: 1.0151 cfs

Approach Velocity: 2.6834 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.6096

Curb and Gutter Analysis: CB181025+45RtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 1.4993 ft

Gutter Result Parameters

Design Flow: 0.0460 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.2725 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 1.5598 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 0.0460 cfs

Bypass Flow: 0.0000 cfs

Approach Velocity: 0.1688 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 1.0000

Curb and Gutter Analysis: CB201033+50LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0112 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Design Flow: 1.8000 cfs

Gutter Result Parameters

Width of Spread: 6.1261 ft

Gutter Depression: 1.2000 in

Area of Flow: 0.6253 ft²

E_o (Gutter Flow to Total Flow): 0.9956

Gutter Depth at Curb: 2.6703 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.3387 cfs

Bypass Flow: 0.4613 cfs

Approach Velocity: 2.8787 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.7437

Curb and Gutter Analysis: CB211033+85LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0100 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Design Flow: 0.9600 cfs

Gutter Result Parameters

Width of Spread: 4.4929 ft

Gutter Depression: 1.2000 in

Area of Flow: 0.4519 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 2.2783 in

Inlet Input Parameters

Inlet Location: Inlet in Sag

Percent Clogging: 0.0000 %

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Perimeter: 6.0000 ft

Effective Perimeter: 6.0000 ft

Area: 3.6000 ft²

Effective Area: 3.6000 ft²

Depth at center of grate: 0.1417 ft

Computed Width of Spread at Sag: 4.0844 ft

Flow type: Weir Flow

Efficiency: 1.0000

Curb and Gutter Analysis: CB231039+00LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Design Flow: 0.6910 cfs

Gutter Result Parameters

Width of Spread: 4.1414 ft

Gutter Depression: 1.2000 in

Area of Flow: 0.4215 ft²

Eo (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 2.1939 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 0.6294 cfs

Bypass Flow: 0.0616 cfs

Approach Velocity: 1.6393 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.9108

Curb and Gutter Analysis: CB241039+00RtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 3.6956 ft

Gutter Result Parameters

Design Flow: 0.5100 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.3866 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 2.0869 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 0.4824 cfs

Bypass Flow: 0.0276 cfs

Approach Velocity: 1.3193 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.9459

Curb and Gutter Analysis: CB261041+30LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0395 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 3.7758 ft

Gutter Result Parameters

Design Flow: 1.2000 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.3926 ft²

E_o (Gutter Flow to Total Flow): 1.0000

Gutter Depth at Curb: 2.1062 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.1093 cfs

Bypass Flow: 0.0907 cfs

Approach Velocity: 3.0568 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.9244

Curb and Gutter Analysis: CB271045+55RtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0088 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 6.6275 ft

Gutter Result Parameters

Design Flow: 1.8000 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.6892 ft²

E_o (Gutter Flow to Total Flow): 0.9896

Gutter Depth at Curb: 2.7906 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.2863 cfs

Bypass Flow: 0.5137 cfs

Approach Velocity: 2.6116 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.7146

Curb and Gutter Analysis: CB281046+80LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0150 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Uniform Gutter Geometry

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Design Flow: 2.0300 cfs

Gutter Result Parameters

Width of Spread: 8.5038 ft

Gutter Depression: 0.0000 in

Area of Flow: 0.7231 ft²

E_o (Gutter Flow to Total Flow): 0.9063

Gutter Depth at Curb: 2.0409 in

Inlet Input Parameters

Inlet Location: Inlet in Sag

Percent Clogging: 0.0000 %

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Perimeter: 6.0000 ft

Effective Perimeter: 6.0000 ft

Area: 3.6000 ft²

Effective Area: 3.6000 ft²

Depth at center of grate: 0.2334 ft

Computed Width of Spread at Sag: 12.6713 ft

Flow type: Weir Flow

Efficiency: 1.0000

Curb and Gutter Analysis: CB291047+00LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0150 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Design Flow: 2.9010 cfs

Gutter Result Parameters

Width of Spread: 7.5416 ft

Gutter Depression: 1.2000 in

Area of Flow: 0.8188 ft²

E_o (Gutter Flow to Total Flow): 0.9722

Gutter Depth at Curb: 3.0100 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.8689 cfs

Bypass Flow: 1.0321 cfs

Approach Velocity: 3.5432 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.6442

Curb and Gutter Analysis: CB301052+00LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0066 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Design Flow: 1.4000 cfs

Gutter Result Parameters

Width of Spread: 6.1798 ft

Gutter Depression: 1.2000 in

Area of Flow: 0.6319 ft²

E_o (Gutter Flow to Total Flow): 0.9951

Gutter Depth at Curb: 2.6832 in

Inlet Input Parameters

Inlet Location: Inlet on Grade

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Intercepted Flow: 1.0545 cfs

Bypass Flow: 0.3455 cfs

Approach Velocity: 2.2155 ft/s

Splash-over Velocity: 8.1290 ft/s

Efficiency: 0.7532

Curb and Gutter Analysis: CB311056+50LtCurb and Gutter Analysis

Notes:

Gutter Input Parameters

Longitudinal Slope of Road: 0.0080 ft/ft

Cross-Slope of Pavement: 0.0200 ft/ft

Depressed Gutter Geometry

Cross-Slope of Gutter: 0.0400 ft/ft

Manning's n: 0.0150

Gutter Width: 5.0000 ft

Width of Spread: 7.0628 ft

Gutter Result Parameters

Design Flow: 1.9000 cfs

Gutter Depression: 1.2000 in

Area of Flow: 0.7488 ft²

E_o (Gutter Flow to Total Flow): 0.9822

Gutter Depth at Curb: 2.8951 in

Inlet Input Parameters

Inlet Location: Inlet in Sag

Percent Clogging: 0.0000 %

Inlet Type: Grate

Grate Type: P - 1-7/8

Grate Width: 2.0000 ft

Grate Length: 2.0000 ft

Local Depression: 0.5000 in

Inlet Result Parameters

Perimeter: 6.0000 ft

Effective Perimeter: 6.0000 ft

Area: 3.6000 ft²

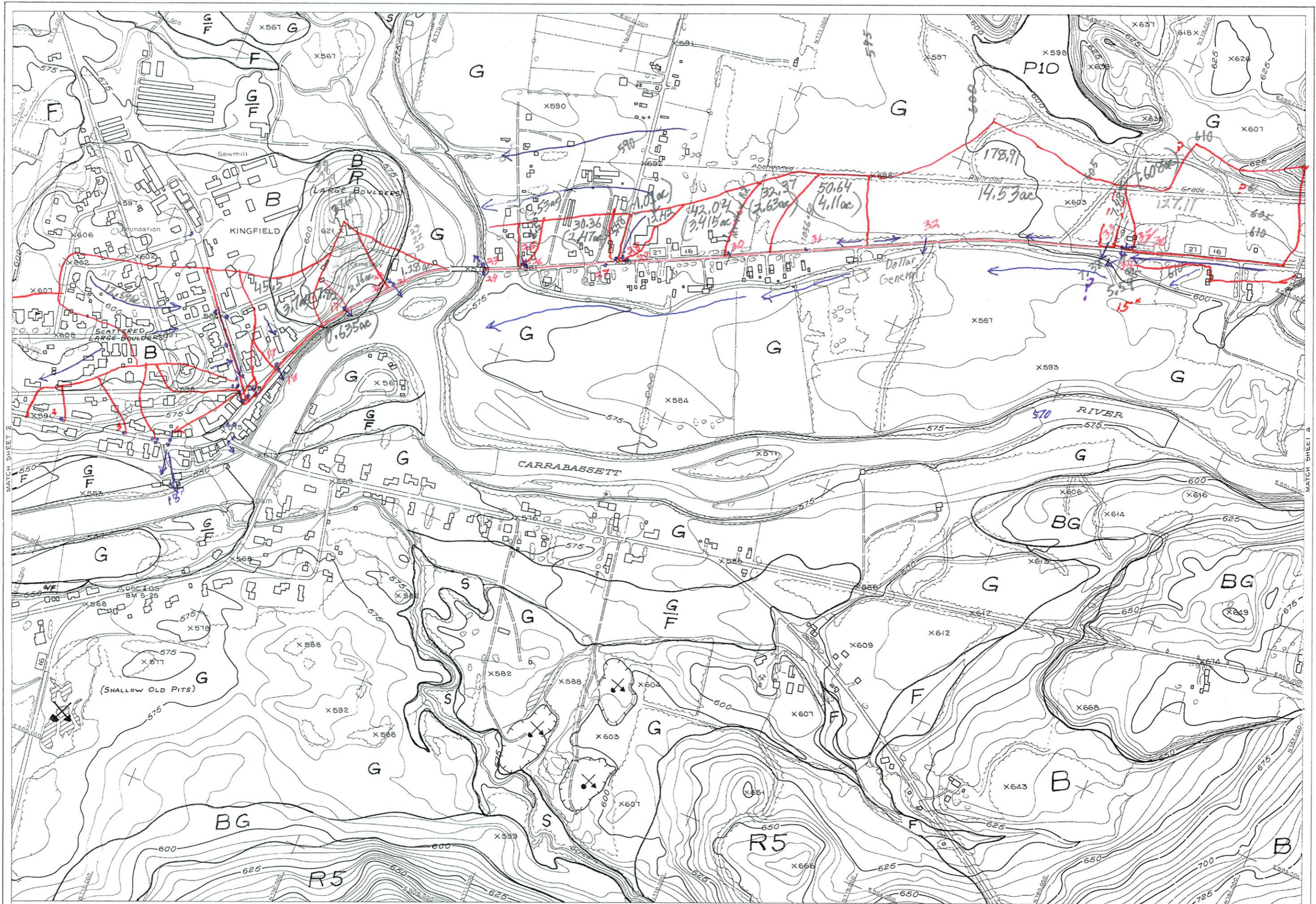
Effective Area: 3.6000 ft²

Depth at center of grate: 0.2234 ft

Computed Width of Spread at Sag: 8.1675 ft

Flow type: Weir Flow

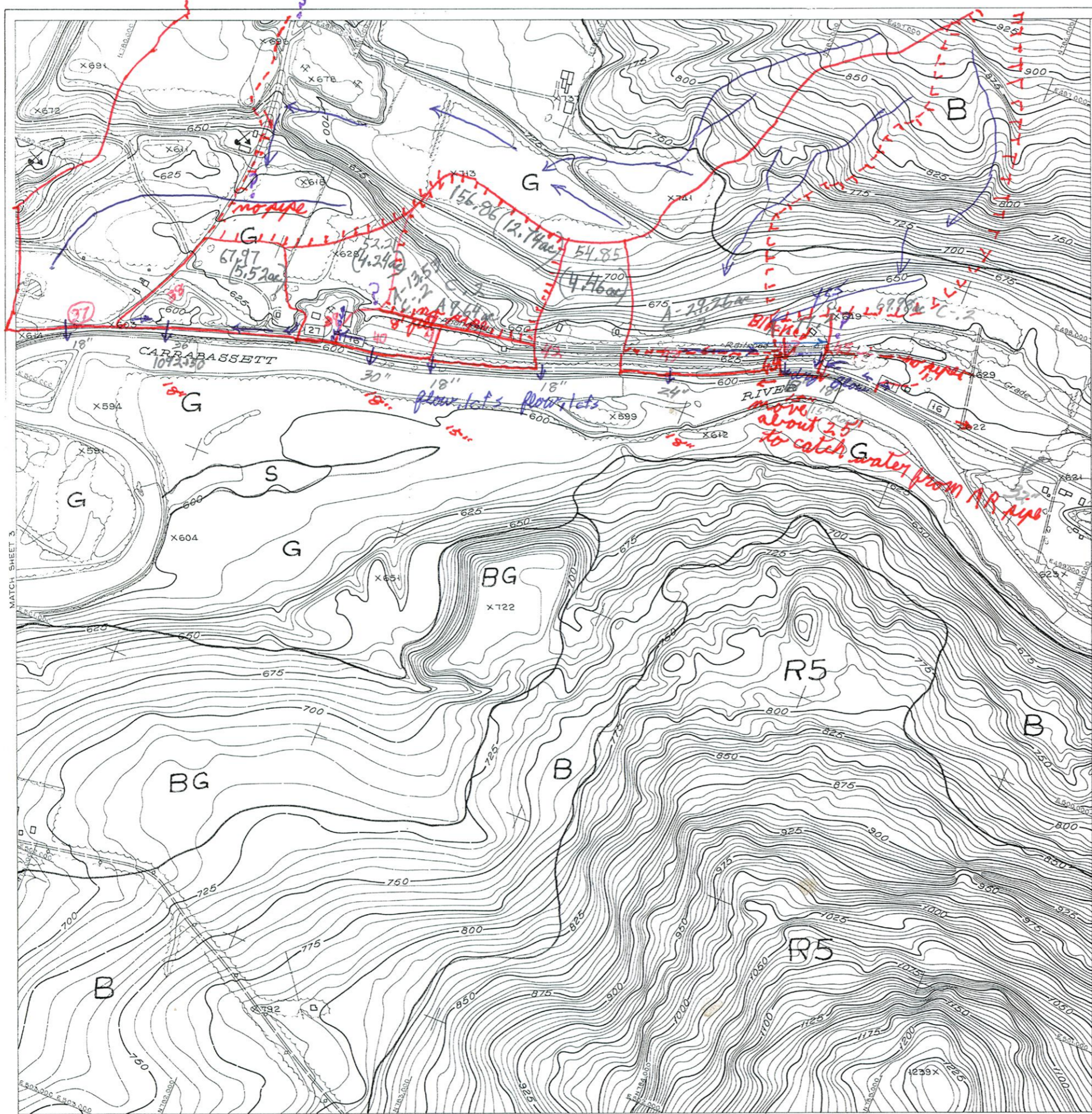
Efficiency: 1.0000



COMPILED BY JAMES W. SEWALL COMPANY, OLD TOWN, MAINE
 BY PHOTOGRAMMETRIC METHODS
 FROM AERIAL PHOTOGRAPHS DATED 5-14-67
 CONTROLLED BY MAINE STATE HIGHWAY COMMISSION

SCALE: 1 INCH = 200 FEET
 100 0 200 400 600 800 1000 FEET
 CONTOUR INTERVAL IS 5 FEET
 DATUM IS MEAN SEA LEVEL
 1000 - FOOT GRID BASED ON MAINE COORDINATE SYSTEM (WEST ZONE)

RELOCATION STUDY
 KINGFIELD - NEW PORTLAND
 PROJECT NO. 237 (507)



Q	Recommend
37-9.2	18-24"
38-3.2	15"
39-2.7	12"
40-1.9	1.68ac 12" 1.4cts
41-1.6	1.416ac 12" 1.2cts
42-2.8cts	4.76ac 15"
43B-20.9	18.5 ac 1010 12"
43-1.7	1.504ac total 7.5cts 20ac
44-1.5cm	1.32T ac 1.2cts
45-1.4	1.4 ac 1.2cts

about 70.65/in²

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SCALE: 1 INCH = 200 FEET
 100 0 200 400 600 800 1000 FEET
 CONTOUR INTERVAL IS 5 FEET
 DATUM IS MEAN SEA LEVEL
 1000 - FOOT GRID BASED ON MAINE COORDINATE SYSTEM (WEST ZONE)

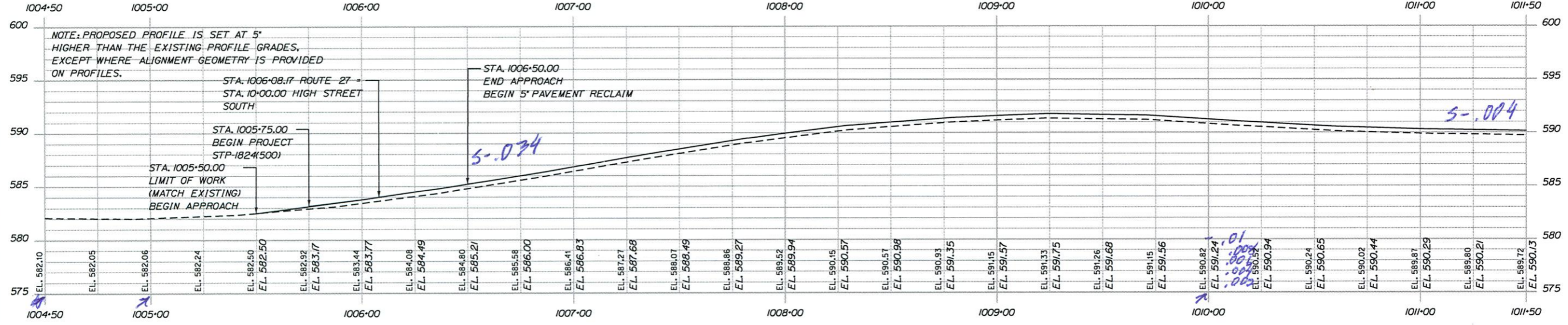
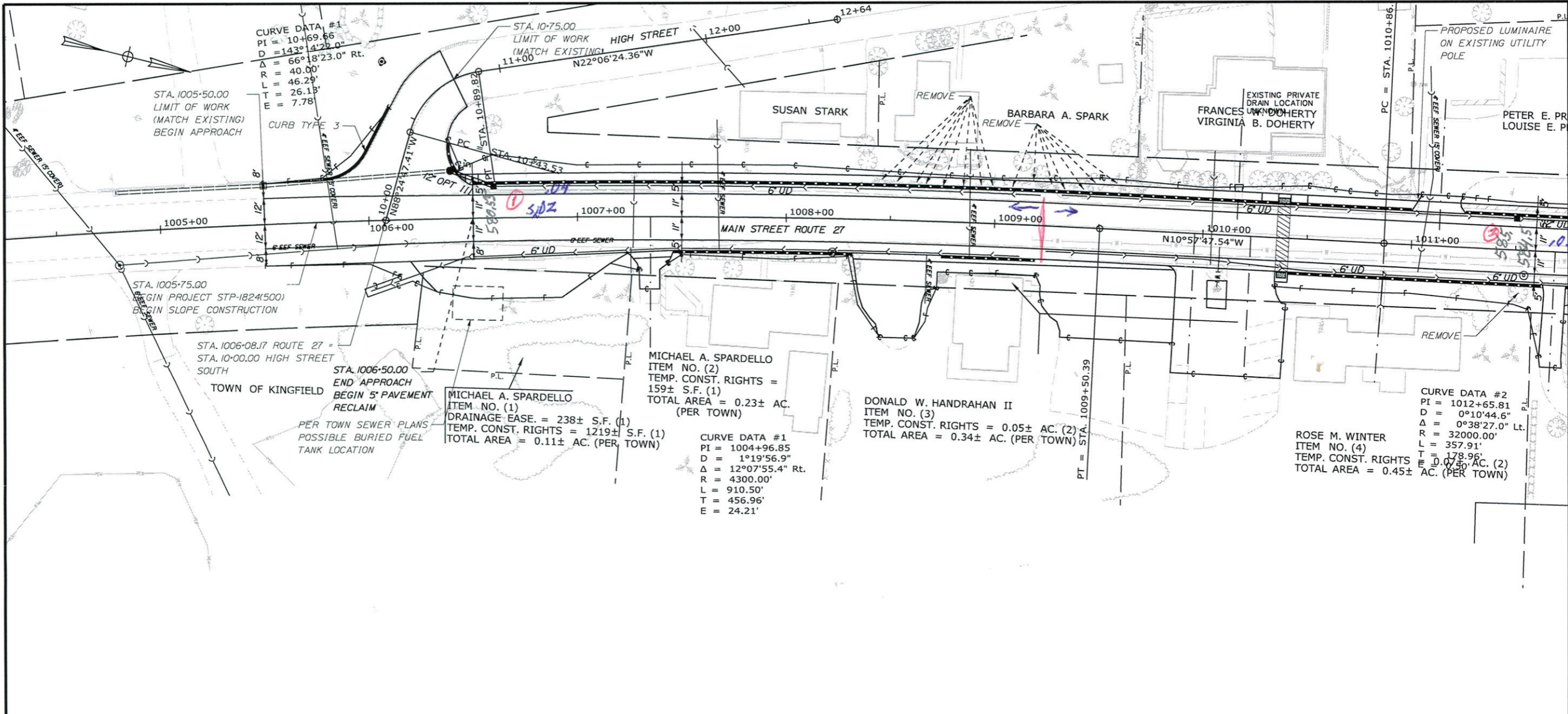
RELOCATION STUDY
 KINGFIELD - NEW PORTLAND
 PROJECT NO. 237 (507)

Date: 5/17/2019

Username: Dono.Pride

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\006_HDPlan1.dgn



PROFILE

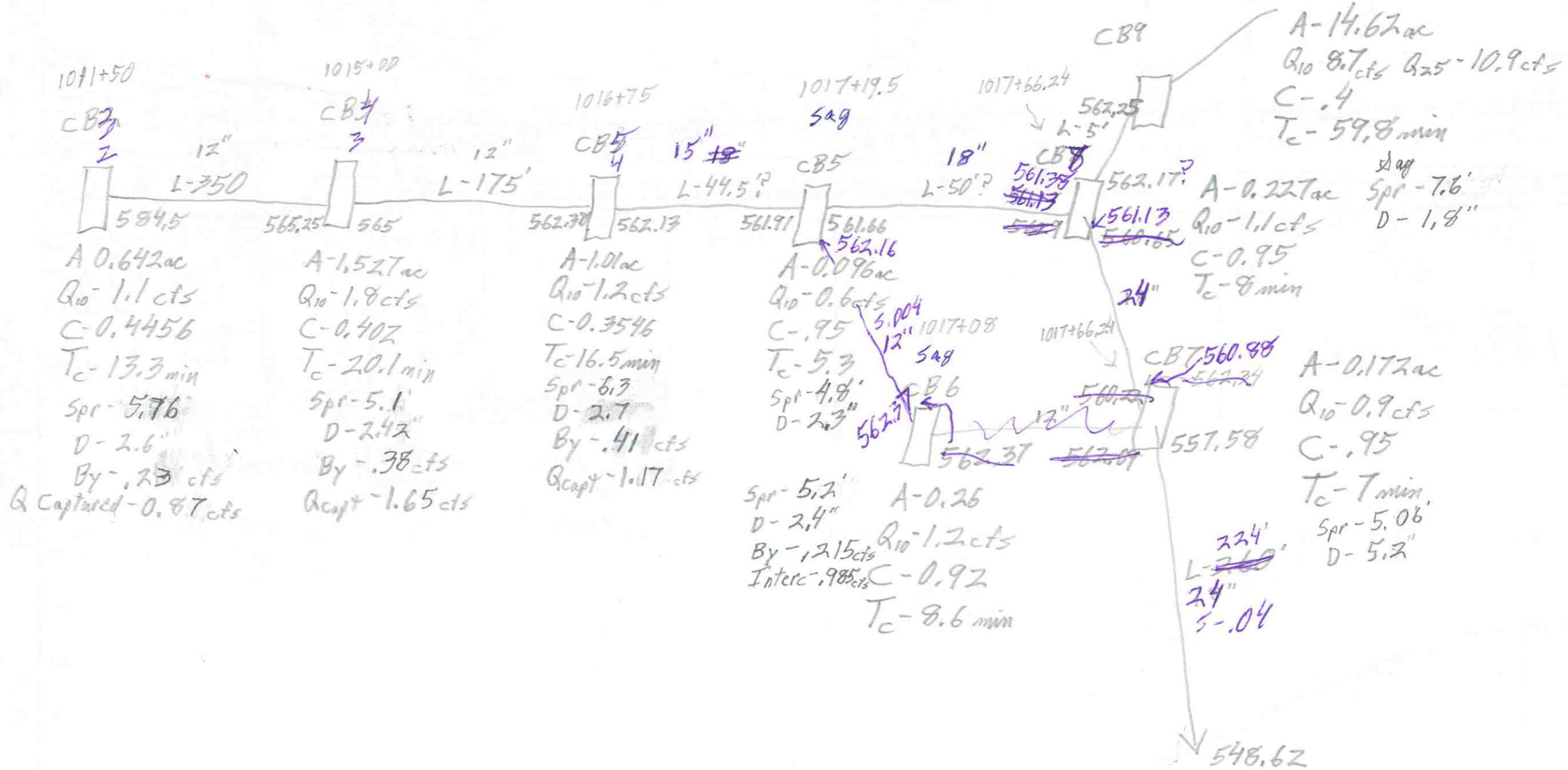
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
18245.00
PIN 18245.00
BRIDGE NO. _____
HIGHWAY PLANS

PROJ. MANAGER	R. MULLON	BY	DATE
DESIGN-DETAILED	D. PRIDE		APRIL 2018
CHECKED-REVISED			
DESIGN-DETAILED	K. GROSS	T. WHITE	JULY 2018
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

KINGFIELD
ROUTES 16\27
PLANS

SHEET NUMBER
6
OF 220

Depot St.

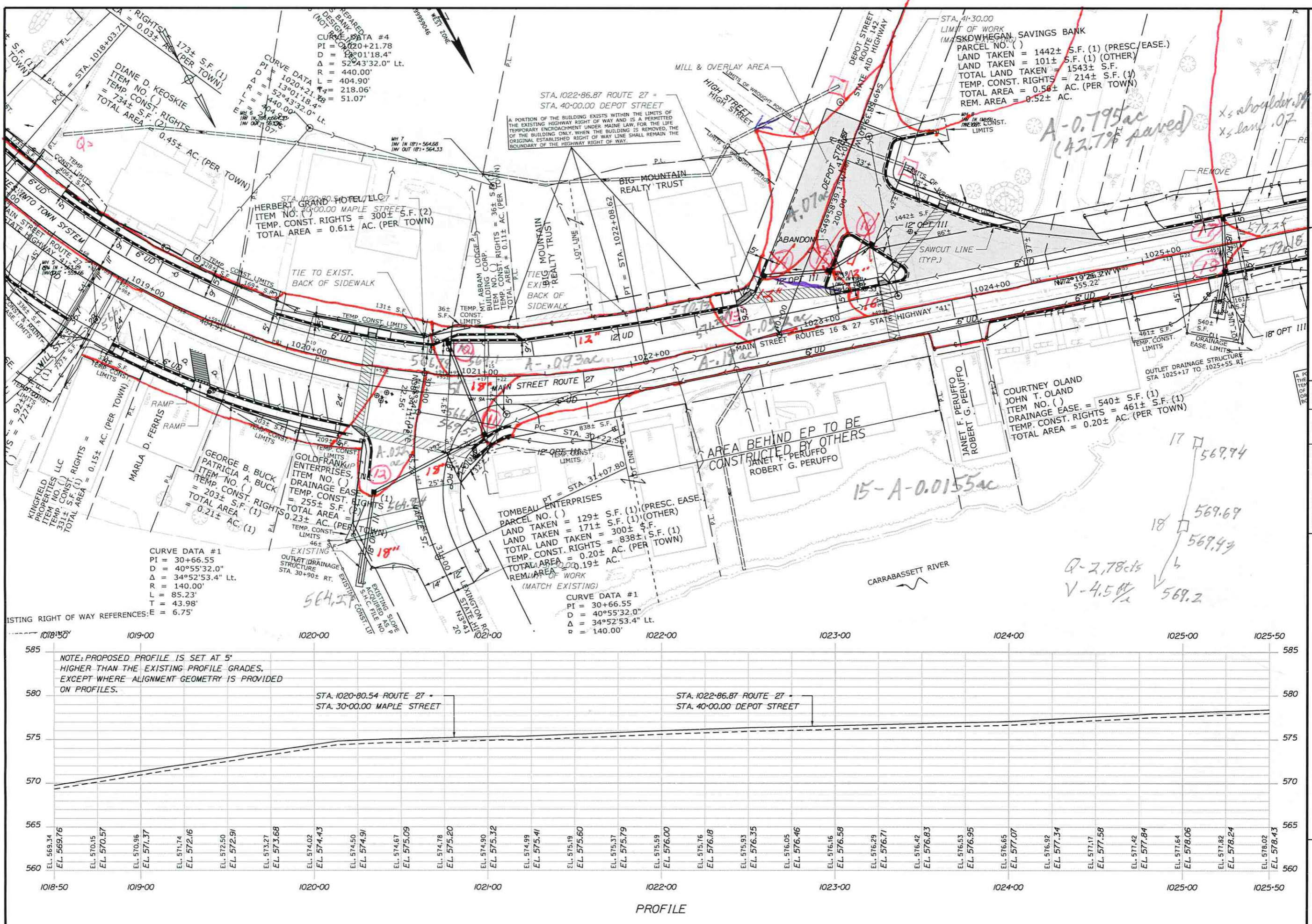


Date: 5/17/2019

Username: Dana.Pride

Division: HIGHWAY

Filename: ... \HIGHWAY\STA\008_HDPlan3.dgn



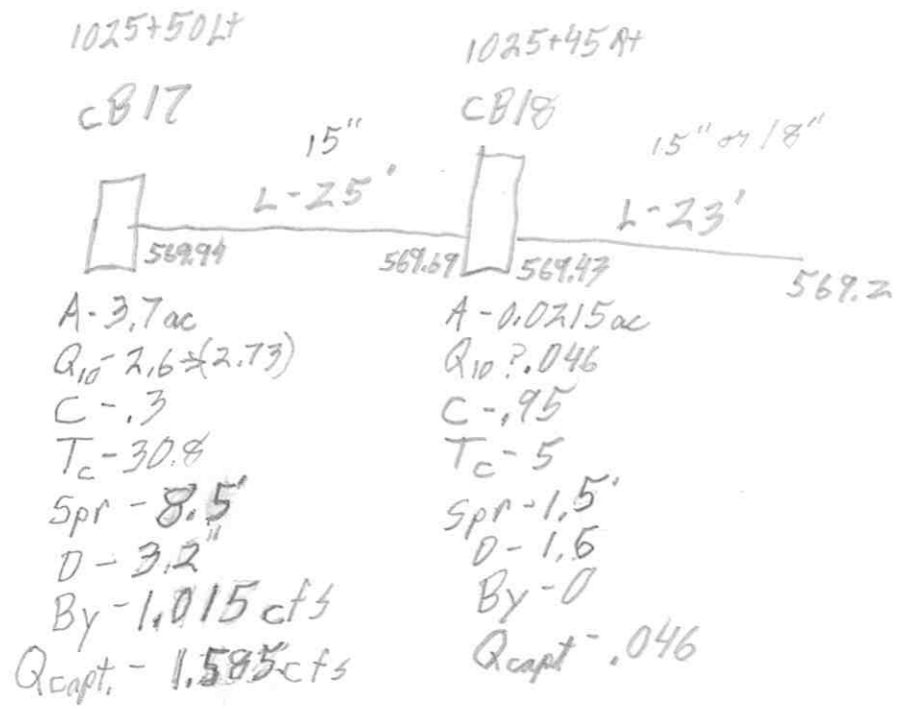
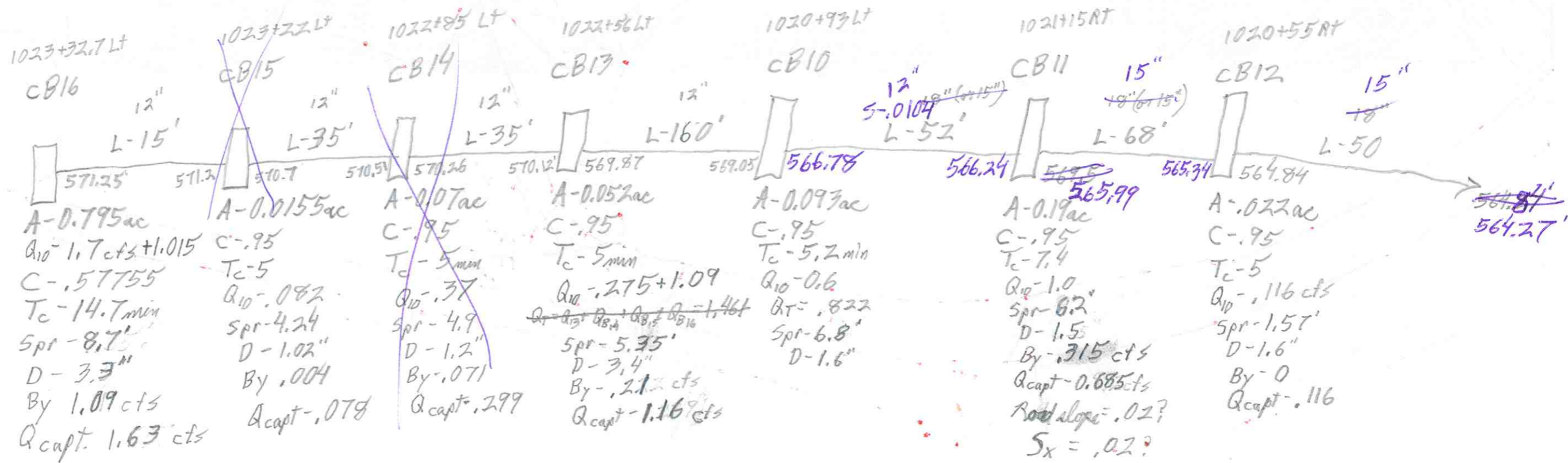
STATE OF MAINE	18245.00	PIN	18245.00	HIGHWAY PLANS
DEPARTMENT OF TRANSPORTATION		BRIDGE NO.		

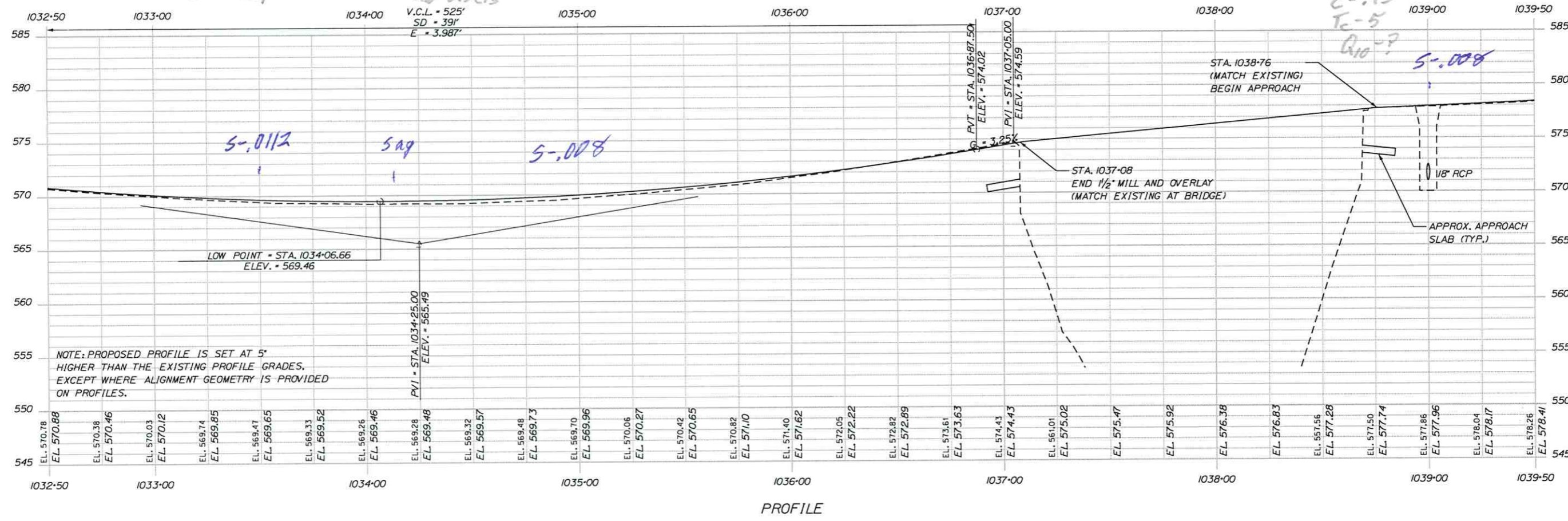
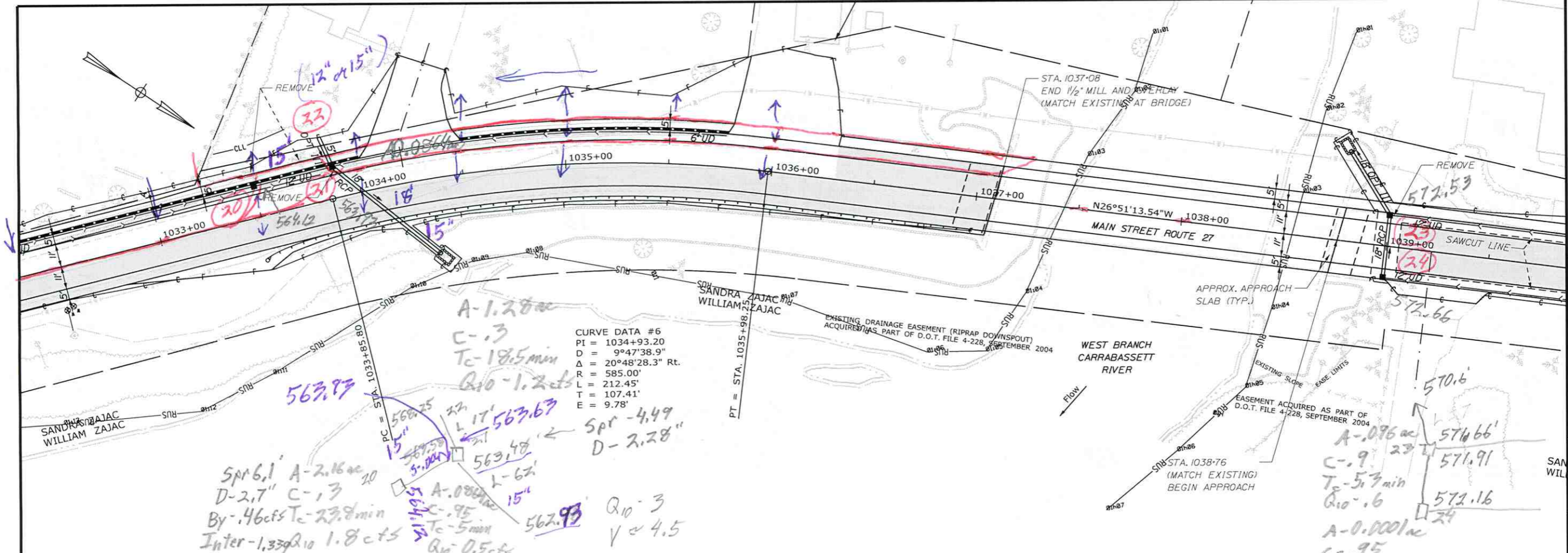
PROJ. MANAGER	R. MOUTON	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	D. PROJE		APRIL 2018			
CHECKED-REVIEWED	K. GROSS	T. WHITE	JULY 2018			
DESIGN-DETAILED						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

KINGFIELD ROUTES 16\27 PLANS

SHEET NUMBER **8**

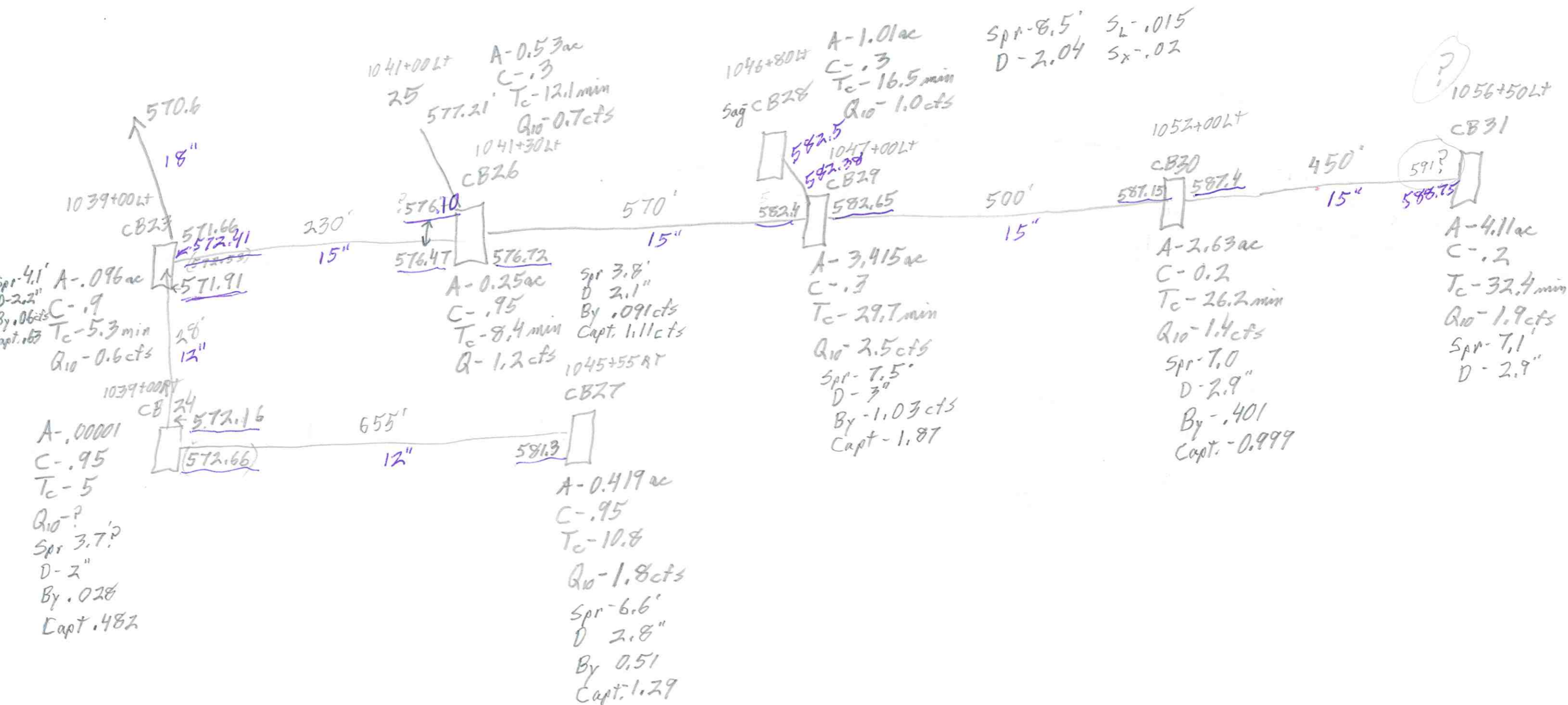
OF 220





NOTE: PROPOSED PROFILE IS SET AT 5' HIGHER THAN THE EXISTING PROFILE GRADES, EXCEPT WHERE ALIGNMENT GEOMETRY IS PROVIDED ON PROFILES.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 18245.00	
KINGFIELD ROUTES 16\27		PLANS		SHEET NUMBER 10	
PIN 18245.00		DATE		HIGHWAY PLANS	
SIGNATURE		DATE		FIELD CHANGES	
P.E. NUMBER		DATE		REVISIONS 1	
DATE		DATE		REVISIONS 2	
DATE		DATE		REVISIONS 3	
DATE		DATE		REVISIONS 4	
DATE		DATE		REVISIONS 5	

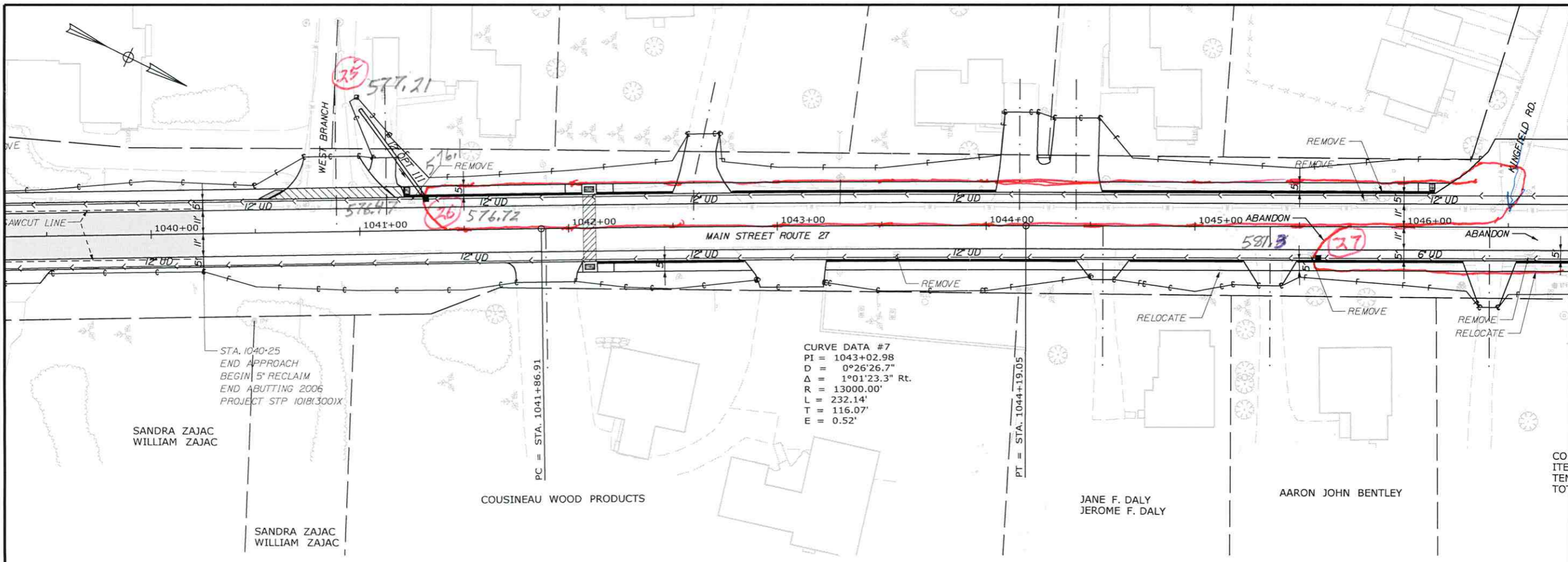


Date: 5/17/2019

Username: Dono.Pride

Division: HIGHWAY

Filename: ... \HIGHWAY\WSTA\011_HDPlan6.dgn



CURVE DATA #7
 PI = 1043+02.98
 D = 0°26'26.7"
 Δ = 1°01'23.3" Rt.
 R = 13000.00'
 L = 232.14'
 T = 116.07'
 E = 0.52'

STA. 1040+25
 END APPROACH
 BEGIN 5" RECLAIM
 END ABUTTING 2006
 PROJECT STP 101813001X

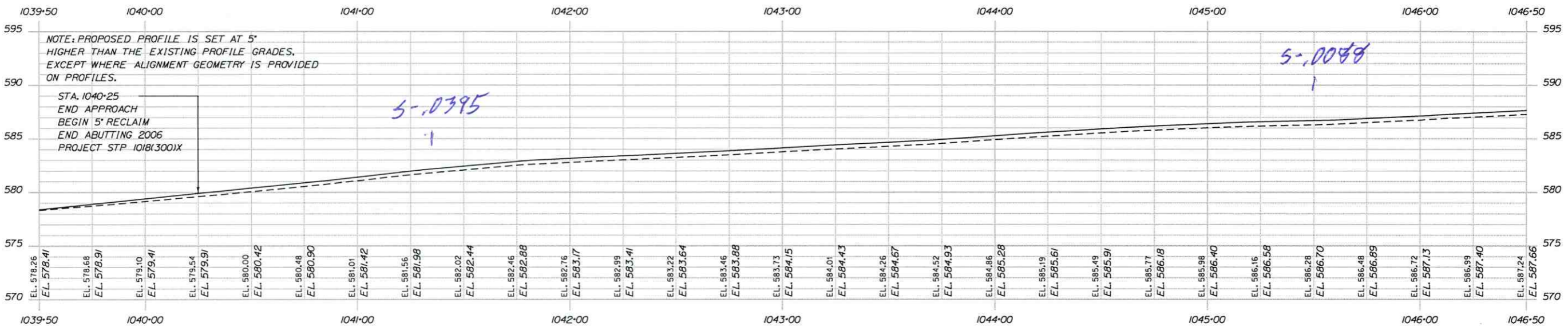
SANDRA ZAJAC
 WILLIAM ZAJAC

SANDRA ZAJAC
 WILLIAM ZAJAC

COUSINEAU WOOD PRODUCTS

JANE F. DALY
 JEROME F. DALY

AARON JOHN BENTLEY



PROFILE

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 18245.00
 HIGHWAY PLANS
 PIN 18245.00
 BRIDGE NO. _____

PROJ. MANAGER	R. MULLTON	BY	DATE
DESIGN-DETAILED	D. PRIDE		APRIL 2018
CHECKED-REVIEWED	T. WHITE		JULY 2018
DESIGN-DETAILED	K. GROSS		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

KINGFIELD
 ROUTES 16\27
 PLANS

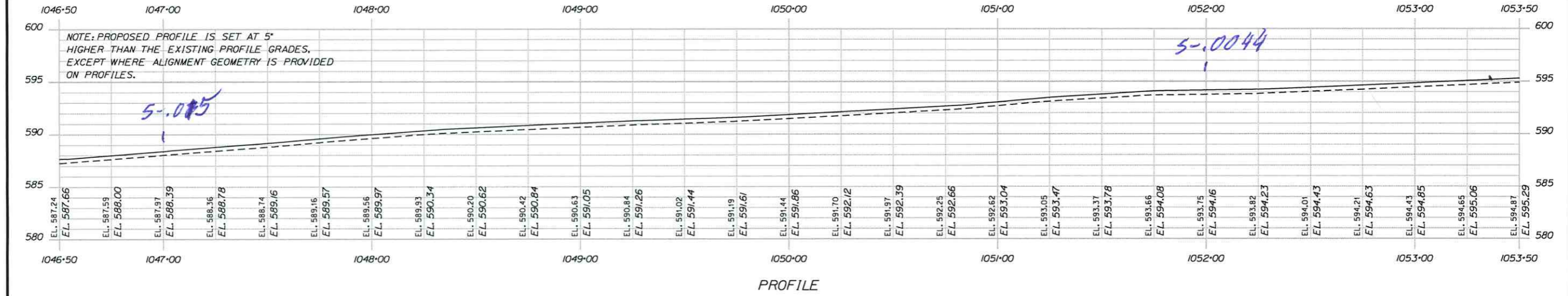
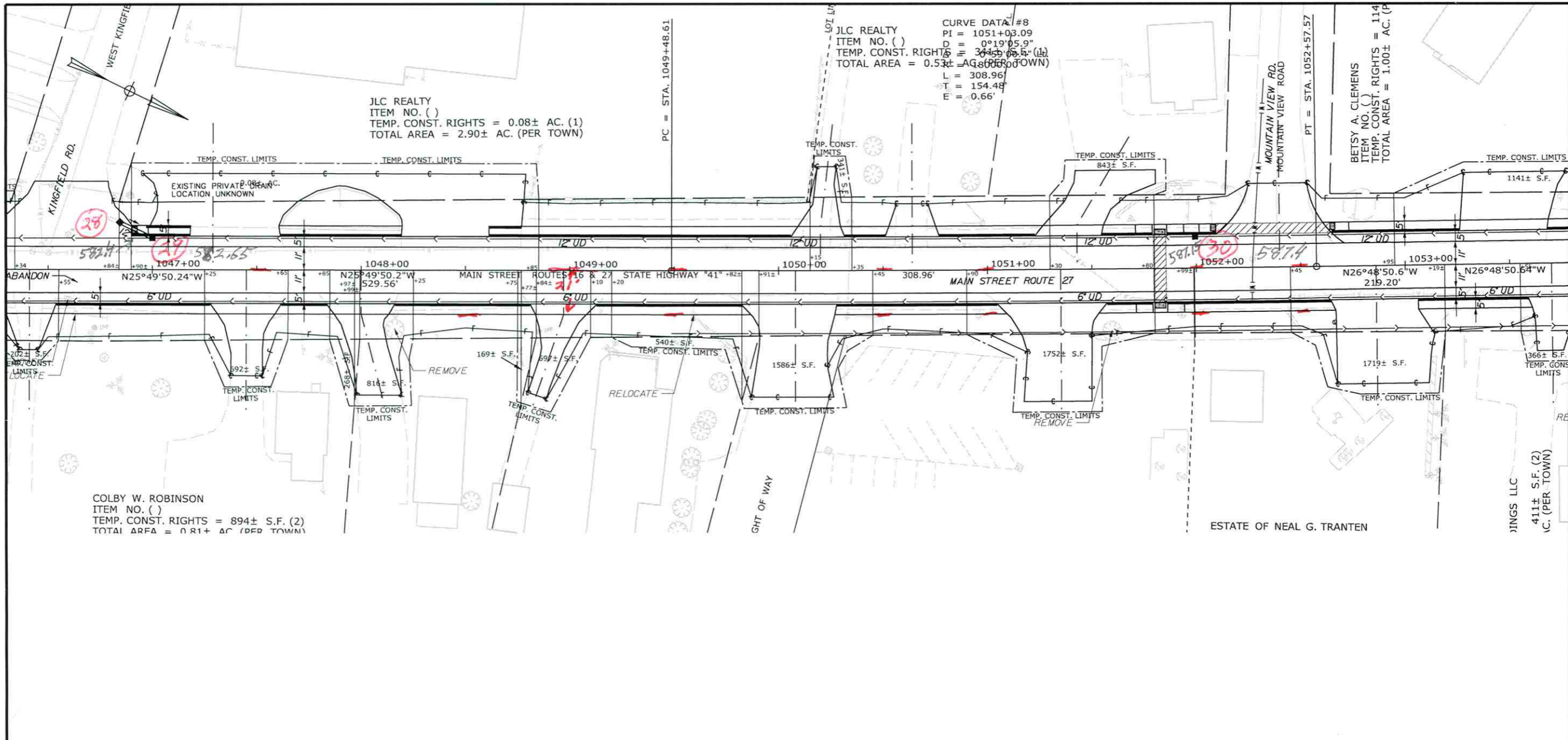
SHEET NUMBER
 11
 OF 220

Date: 5/17/2019

Username: Dona.Pride

Division: HIGHWAY

Filename: ... \HIGHWAY\WSTA\012_HDPlan7.dgn



CURVE DATA #8
 PI = 1051+03.09
 D = 0°19'05.9"
 TEMP. CONST. RIGHTS = 344± S.F. (1)
 TOTAL AREA = 0.53± AC. (PER TOWN)
 L = 308.96
 T = 154.48
 E = 0.66'

JLC REALTY
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 0.08± AC. (1)
 TOTAL AREA = 2.90± AC. (PER TOWN)

COLBY W. ROBINSON
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 894± S.F. (2)
 TOTAL AREA = 0.81± AC. (PER TOWN)

BETSY A. CLEMENS
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 114
 TOTAL AREA = 1.00± AC. (P

JINGS LLC
 411± S.F. (2)
 AC. (PER TOWN)

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 18245.00
 BRIDGE NO. _____
 PIN 18245.00
 HIGHWAY PLANS

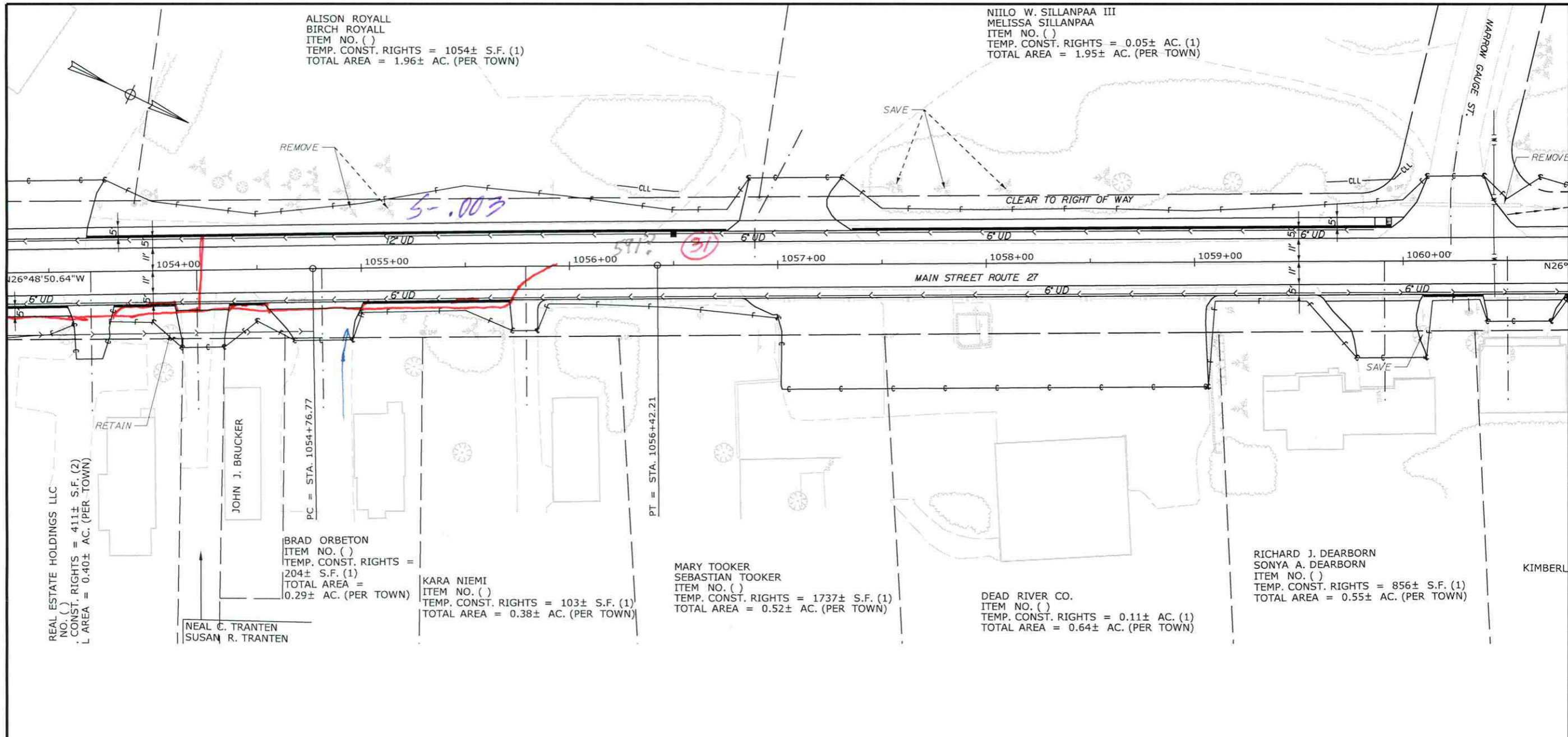
PROJ. MANAGER	R. MULLIN	BY	DATE
DESIGN-DETAILED	D. PRIDE		APRIL 2018
CHECKED-REVIEWED	K. GROSS	T. WHITE	JULY 2018
DESIGN-DETAILED	K. GROSS	T. WHITE	JULY 2018
DESIGN-DETAILED	K. GROSS	T. WHITE	JULY 2018
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

KINGFIELD
 ROUTES 16\27
 PLANS

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ALISON ROYALL
 BIRCH ROYALL
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 1054± S.F. (1)
 TOTAL AREA = 1.96± AC. (PER TOWN)

NIILLO W. SILLANPAA III
 MELISSA SILLANPAA
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 0.05± AC. (1)
 TOTAL AREA = 1.95± AC. (PER TOWN)



REAL ESTATE HOLDINGS LLC
 NO. ()
 CONST. RIGHTS = 411± S.F. (2)
 L AREA = 0.40± AC. (PER TOWN)

NEAL C. TRANTEN
 SUSAN R. TRANTEN

JOHN J. BRUCKER

BRAD ORBETON
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 204± S.F. (1)
 TOTAL AREA = 0.29± AC. (PER TOWN)

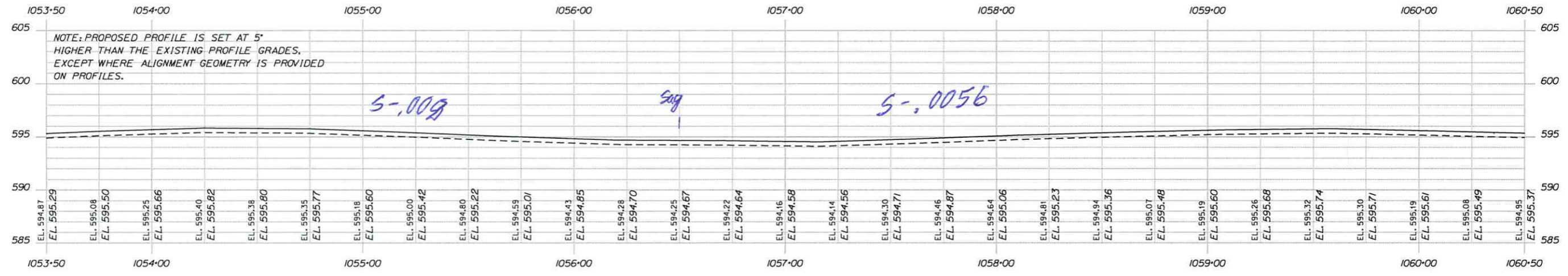
KARA NIEMI
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 103± S.F. (1)
 TOTAL AREA = 0.38± AC. (PER TOWN)

MARY TOOKER
 SEBASTIAN TOOKER
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 1737± S.F. (1)
 TOTAL AREA = 0.52± AC. (PER TOWN)

DEAD RIVER CO.
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 0.11± AC. (1)
 TOTAL AREA = 0.64± AC. (PER TOWN)

RICHARD J. DEARBORN
 SONYA A. DEARBORN
 ITEM NO. ()
 TEMP. CONST. RIGHTS = 856± S.F. (1)
 TOTAL AREA = 0.55± AC. (PER TOWN)

KIMBERL



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	BRIDGE NO. _____	PIN 18245.00	HIGHWAY PLANS
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PROJ. MANAGER	R. Moulton	BY	DATE
DESIGN-DETAILED <td>D. PROJE <td></td> <td>APRIL 2018 </td></td>	D. PROJE <td></td> <td>APRIL 2018 </td>		APRIL 2018
CHECKED-REVIEWED <td>K. GROSS <td>T. WHITE <td>JULY 2018 </td></td></td>	K. GROSS <td>T. WHITE <td>JULY 2018 </td></td>	T. WHITE <td>JULY 2018 </td>	JULY 2018
DESIGN-DETAILED <td>K. GROSS <td>T. WHITE <td>JULY 2018 </td></td></td>	K. GROSS <td>T. WHITE <td>JULY 2018 </td></td>	T. WHITE <td>JULY 2018 </td>	JULY 2018
REVISIONS 1 <td></td> <td></td> <td></td>			
REVISIONS 2 <td></td> <td></td> <td></td>			
REVISIONS 3 <td></td> <td></td> <td></td>			
REVISIONS 4 <td></td> <td></td> <td></td>			
FIELD CHANGES <td></td> <td></td> <td></td>			

KINGFIELD
 ROUTES 16\27
 PLANS

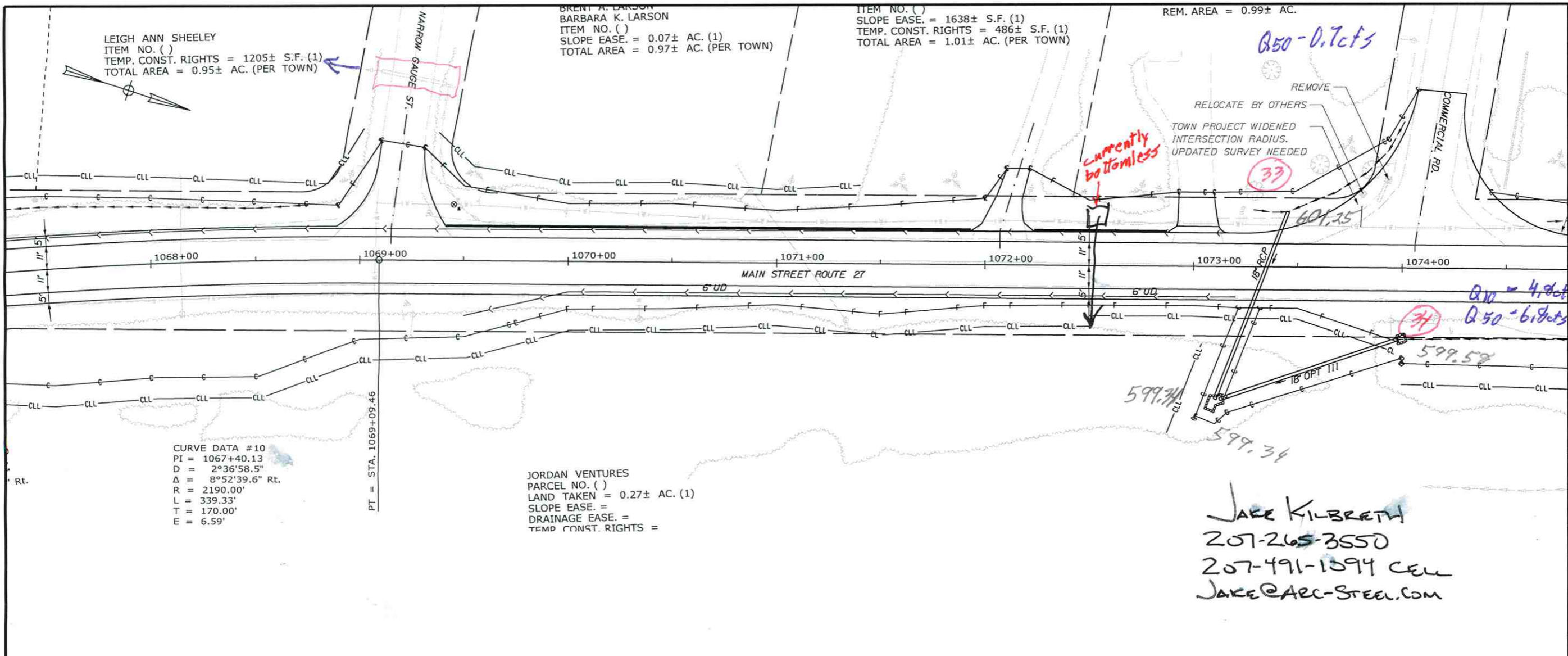
SHEET NUMBER
 13
 OF 220

Date: 5/17/2019

Username: Dono.Pride

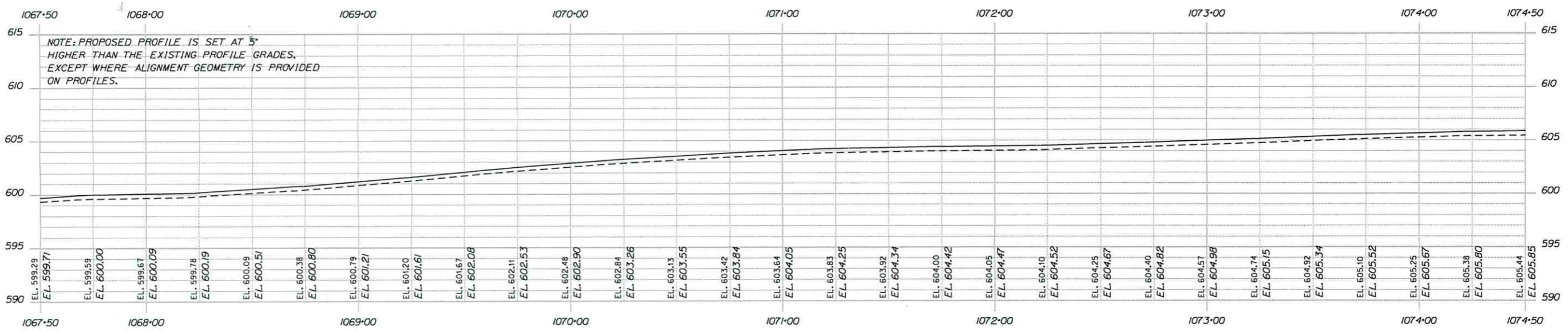
Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\015_HDP\plan10.dgn



CURVE DATA #10
 PI = 1067+40.13
 D = 2°36'58.5"
 Δ = 8°52'39.6" Rt.
 R = 2190.00'
 L = 339.33'
 T = 170.00'
 E = 6.59'

JORDAN VENTURES
 PARCEL NO. ()
 LAND TAKEN = 0.27± AC. (1)
 SLOPE EASE. =
 DRAINAGE EASE. =
 TEMP CONST. RIGHTS =



PROFILE

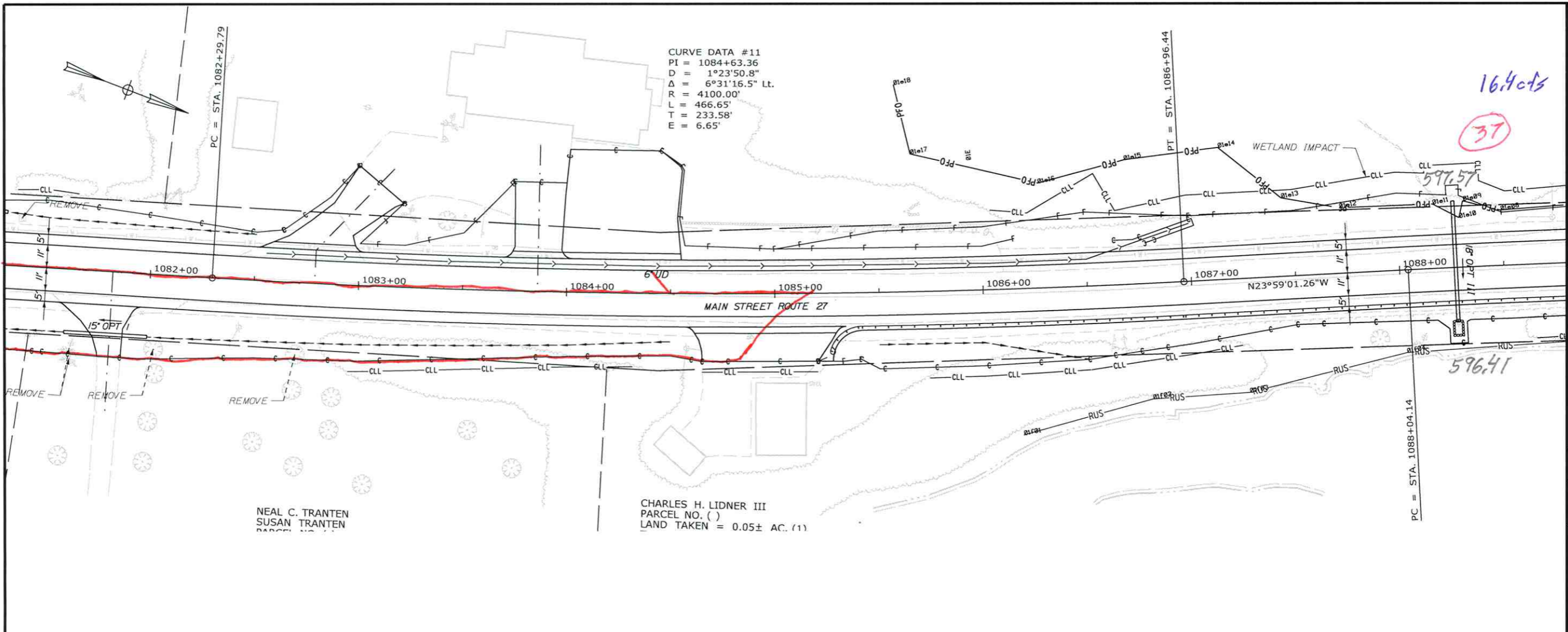
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
18245.00		18245.00	
PIN		HIGHWAY PLANS	
BRIDGE NO.		18245.00	
PROJ. MANAGER	R. WOLTON	BY	JAKE KILBRETH
DESIGN/DETAIL	D. PRIDE	DATE	APRIL 2018
CHECKED/REVIEWED	T. WHITE	DATE	JULY 2018
DESIGN/DETAIL	K. GROSS	SIGNATURE	
DESIGN/DETAIL		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
KINGFIELD ROUTES 16\27 PLANS			
SHEET NUMBER			
15			
OF 220			

Date: 5/17/2019

Username: Dana.Pride

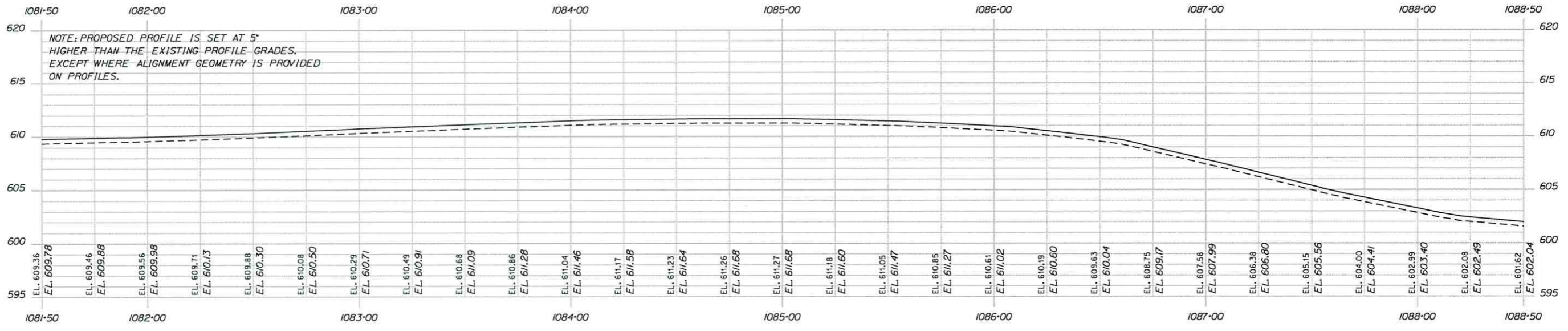
Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\017_HDPlan12.dgn



NEAL C. TRANTEN
SUSAN TRANTEN
PARCEL NO. ()

CHARLES H. LIDNER III
PARCEL NO. ()
LAND TAKEN = 0.05± AC. (1)



PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. _____
PIN 18245.00
HIGHWAY PLANS

PROJ. MANAGER	R. WOLTON	BY	DATE
DESIGN-DETAILED	D. PROJE	T. WHITE	APRIL 2018
CHECKED-REVISED	K. GROSS	T. WHITE	JULY 2018
DESIGN-DETAILED	K. GROSS	T. WHITE	JULY 2018
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE _____
P.E. NUMBER _____
DATE _____

KINGFIELD
ROUTES 16\27
PLANS

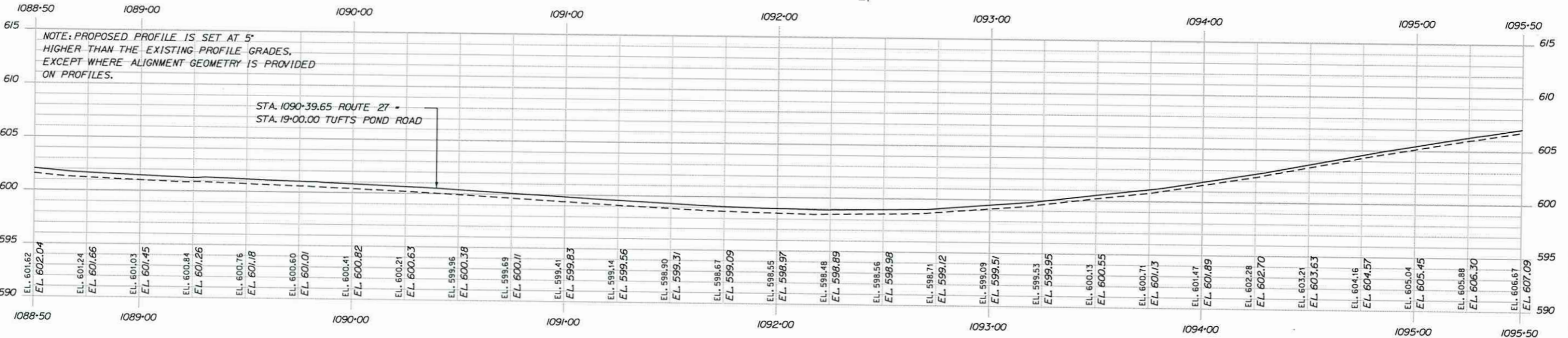
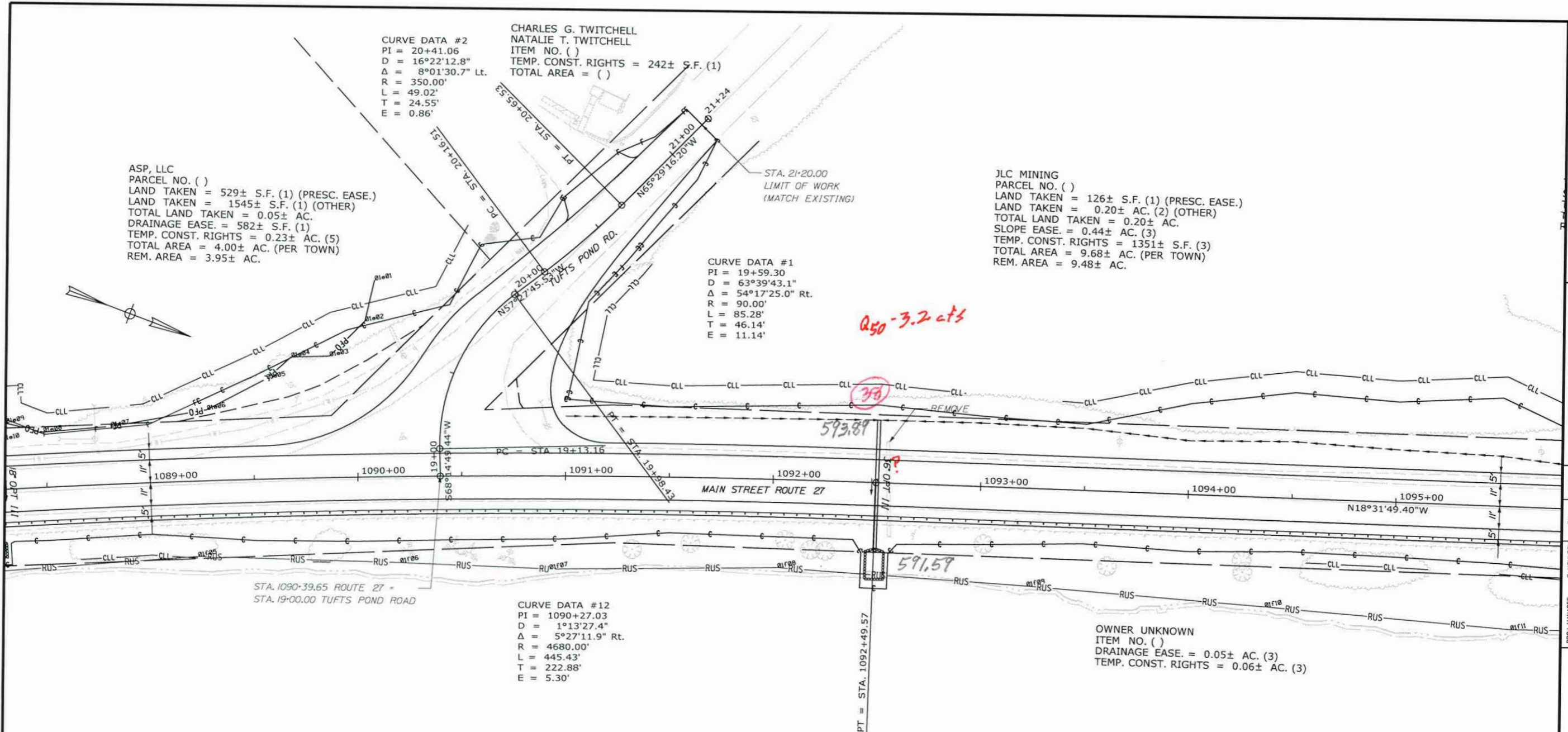
SHEET NUMBER
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OF 220

Date: 5/17/2019

Username: Donc.Pride

Division: HIGHWAY

Filename: ...HIGHWAY\WSTA\018_HDPlan13.dgn



PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
18245.00
PIN 18245.00
BRIDGE NO. _____
HIGHWAY PLANS

PROJ. MANAGER	R. WOLTON	DATE	BY	DATE
DESIGN-DETAILED	D. PROBE	APRIL 2018		
CHECKED-REVIEWED	K. GROSS	JULY 2018		
DESIGN-DETAILED	K. GROSS			
DESIGN-DETAILED				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

KINGFIELD
ROUTES 16 & 27
PLANS

SHEET NUMBER
18
OF 220