

**DEVELOPED CONDITIONS
FLOODPLAIN HEC RAS OUTPUT**

HEC-RAS Plan. pr cross 1 River: Trib 25 Reach: bald hill

Reach	River/Sta	Profile	Q Total (cfs)	Min El (ft)	W.S. Elev (ft)	Delta W.S. (ft)	E.G. Elev. (ft)	Delta E.G. (ft)	Fifth Loss (ft)	C.O. & E. Loss (ft)	Vel Head (ft)	O. Left (cfs)	Q. Channel (cfs)	Q. Right (cfs)	Length Chnl (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	
bald hill	2220	10-YR	190.00	573.70	581.68		582.47				0.79		190.00					
bald hill	2220	50-YR	350.00	579.70	582.63		583.60				1.07		347.76	0.39		0.022866	7.14	
bald hill	2220	100-YR	440.00	579.70	582.94		584.10				1.16		430.15	1.73		0.018034	8.92	
bald hill	2220	500-YR	740.00	573.70	584.08		585.37				1.28		667.38	12.92		0.015936	8.73	
bald hill	2300	10-YR	190.00	581.30	583.91	1.63	583.70	1.23	1.19	0.04	0.39		190.00			0.010700	5.03	
bald hill	2300	50-YR	350.00	581.30	584.11	1.58	584.66	1.06	1.07	0.05	0.56		348.25	1.75		0.009386	5.99	
bald hill	2300	100-YR	440.00	581.30	584.45	1.51	585.10	0.99	0.94	0.05	0.64		434.55	5.35		0.009056	6.48	
bald hill	2300	500-YR	740.00	581.30	585.29	1.20	586.25	0.88	0.85	0.03	0.96		712.03	24.51		0.009478	8.00	
bald hill	2400	10-YR	190.00	583.30	584.76	1.45	585.42	1.72	1.51	0.08	0.66		190.00					
bald hill	2400	50-YR	350.00	583.30	585.43	1.32	586.39	1.73	1.32	0.12	0.96		349.63	0.29		0.022619	6.51	
bald hill	2400	100-YR	440.00	583.30	585.75	1.30	586.86	1.76	1.26	0.14	1.10		438.39	0.96		0.019822	7.86	
bald hill	2400	500-YR	740.00	583.30	586.70	1.41	588.19	1.93	1.21	0.16	1.49		726.90	7.97		0.018610	8.45	
bald hill	2550	10-YR	190.00	586.30	588.20	3.43	588.84	3.42	3.40	0.00	0.64		190.00					
bald hill	2550	50-YR	350.00	586.30	588.87	3.44	589.76	3.37	3.02	0.01	0.89		350.00			0.022567	6.44	
bald hill	2550	100-YR	440.00	586.30	589.17	3.42	590.19	3.33	2.86	0.01	1.02		439.95	0.00		0.020405	7.56	
bald hill	2550	500-YR	740.00	586.30	590.06	3.36	591.42	3.23	2.40	0.01	1.36		734.57	0.54		0.019601	8.11	
bald hill	2600	10-YR	190.00	591.20	593.95	5.75	594.61	5.77	5.57	0.01	0.66		158.19					
bald hill	2600	50-YR	350.00	591.20	594.73	5.85	595.28	5.52	4.30	0.03	0.85		318.1			0.022744	7.13	
bald hill	2600	100-YR	440.00	591.20	595.01	5.84	595.53	5.33	3.93	0.05	1.06		443.24	0.03		0.015537	7.07	
bald hill	2600	500-YR	740.00	591.20	595.45	5.39	596.10	4.69	3.79	0.07	1.52		729.59	0.27		0.019774	7.14	
bald hill	2890	10-YR	190.00	593.10	596.07	2.12	596.32	1.71	1.67	0.04	0.25		190.00					
bald hill	2890	50-YR	350.00	593.10	596.68	1.96	597.19	1.91	1.81	0.00	0.50		350.00			0.004729	4.02	
bald hill	2890	100-YR	440.00	593.10	596.90	1.90	597.58	2.05	2.01	0.05	0.67		438.85	0.00		0.007406	5.70	
bald hill	2890	500-YR	740.00	593.10	597.58	2.10	598.77	2.86	2.50	0.17	1.21		731.83	0.37		0.006958	6.59	
bald hill	3080	10-YR	190.00	594.00	596.57	0.50	597.11	0.79	0.65	0.14	0.54		190.00					
bald hill	3080	50-YR	350.00	594.00	597.38	0.70	598.24	1.06	0.88	0.18	0.86		349.84	0.16		0.012194	5.89	
bald hill	3080	100-YR	440.00	594.00	597.71	0.81	598.76	1.19	1.00	0.19	1.05		439.04	0.89		0.013440	7.44	
bald hill	3080	500-YR	740.00	594.00	598.72	1.16	600.23	1.45	1.17	0.15	1.51		721.87	10.40		0.014099	8.23	
bald hill	3110		Culvert														0.013752	9.97
bald hill	3140	10-YR	190.00	594.50	596.67		597.42											
bald hill	3140	50-YR	350.00	594.50	597.68		598.59				0.75		190.00					
bald hill	3140	100-YR	440.00	594.50	598.44		599.17				0.71		349.52	0.26			0.021778	6.96
bald hill	3140	500-YR	740.00	594.50	600.09		600.85				0.73		436.44	1.37			0.010793	6.76
bald hill	3200	10-YR	190.00	594.70	597.72	1.05	597.90	0.48	0.42	0.06	0.18		700.93	13.28			0.005991	7.14
bald hill	3200	50-YR	350.00	594.70	598.71	0.83	598.99	0.40	0.36	0.04	0.29		190.00				0.003031	3.40
bald hill	3200	100-YR	440.00	594.70	599.20	0.76	599.53	0.36	0.32	0.04	0.33		349.93	0.05			0.003994	4.30
bald hill	3200	500-YR	740.00	594.70	600.73	0.63	601.10	0.26	0.22	0.04	0.38		437.19	1.25			0.003188	4.61
bald hill	3300	10-YR	190.00	595.00	598.05	0.33	598.29	0.59	0.37	0.02	0.24		691.40	20.49			0.002392	5.09
bald hill	3300	50-YR	350.00	595.00	598.05	0.34	598.41	0.41	0.39	0.02	0.36		190.00				0.004663	3.97
bald hill	3300	100-YR	440.00	595.00	598.51	0.31	598.92	0.39	0.37	0.02	0.41		349.72	0.16			0.004592	4.79
bald hill	3300	500-YR	740.00	595.00	600.94	0.21	601.49	0.30	0.27	0.03	0.46		436.54	2.29			0.004240	5.13
bald hill	3300												690.36	33.83			0.003170	5.65

Plan: pr cross 1 Trib 25 bald hill RS: 2220 Profile: 10-YR

Element	Value	Unit	Left OB	Channel	Right OB
E.G. Elev (ft)	582.47	Element			
Vel Head (ft)	0.79	W.L.n-Val		0.040	
W.S. Elev (ft)	581.68	Reach Len. (ft)			
Crit W/S (ft)	581.68	Flow Area (sq ft)		26.62	
E.G. Slope (ft/ft)	0.022266	Area (sq ft)		26.62	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	17.05	Top Width (ft)		17.05	
Vel Total (ft/s)	7.14	Avg Vel (ft/s)		7.14	
Max Chl Dpth (ft)	1.98	Hydr. Depth (ft)		1.56	
Conv. Total (cfs)	1273.3	Conv. (cfs)		1273.3	
Length Wid. (ft)		Wetted Per. (ft)		18.22	
Min Ch El (ft)	579.70	Shear (lb/sq ft)		2.03	
Alpha	1.00	Stream Power (lb/ft s)		14.49	
Frictn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

Plan: pr cross 1 Trib 25 bald hill RS: 2220 Profile: 50-YR

Element	Value	Unit	Left OB	Channel	Right OB
E.G. Elev (ft)	583.60	Element			
Vel Head (ft)	1.07	W.L.n-Val	0.100	0.040	0.100
W.S. Elev (ft)	582.53	Reach Len. (ft)			
Crit W/S (ft)	582.53	Flow Area (sq ft)	2.24	41.78	0.49
E.G. Slope (ft/ft)	0.018034	Area (sq ft)	2.24	41.78	0.49
Q Total (cfs)	350.00	Flow (cfs)	1.84	347.76	0.39
Top Width (ft)	28.32	Top Width (ft)	8.47	18.00	1.85
Vel Total (ft/s)	7.86	Avg Vel (ft/s)	0.82	8.32	0.80
Max Chl Dpth (ft)	2.83	Hydr. Depth (ft)	0.26	2.32	0.26
Conv. Total (cfs)	2606.3	Conv. (cfs)	13.7	2589.7	2.9
Length Wid. (ft)		Wetted Per. (ft)	8.49	19.38	1.93
Min Ch El (ft)	579.70	Shear (lb/sq ft)	0.30	2.43	0.29
Alpha	1.11	Stream Power (lb/ft s)	0.24	20.20	0.23
Frictn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

Plan: pr cross 1 Trib 25 bald hill RS: 2220 Profile: 100-YR

Element	Value	Unit	Left OB	Channel	Right OB
E.G. Elev (ft)	584.10	Element			
Vel Head (ft)	1.16	W.L.n-Val	0.100	0.040	0.100
W.S. Elev (ft)	582.94	Reach Len. (ft)			
Crit W/S (ft)	582.94	Flow Area (sq ft)	7.14	49.26	1.56
E.G. Slope (ft/ft)	0.015936	Area (sq ft)	7.14	49.26	1.56
Q Total (cfs)	440.00	Flow (cfs)	8.12	430.15	1.73
Top Width (ft)	36.43	Top Width (ft)	15.12	18.00	3.31
Vel Total (ft/s)	7.59	Avg Vel (ft/s)	1.14	8.73	1.11
Max Chl Dpth (ft)	3.24	Hydr. Depth (ft)	0.47	2.74	0.47
Conv. Total (cfs)	3485.5	Conv. (cfs)	64.3	3407.5	13.7
Length Wid. (ft)		Wetted Per. (ft)	15.15	19.38	3.44
Min Ch El (ft)	579.70	Shear (lb/sq ft)	0.47	2.53	0.45
Alpha	1.29	Stream Power (lb/ft s)	0.53	22.08	0.50
Frictn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

Plan: pr cross 1 Trib 25 bald hill RS: 2220 Profile: 500-YR

Element	Value	Unit	Left OB	Channel	Right OB
E.G. Elev (ft)	585.37	Element			
Vel Head (ft)	1.28	W.L.n-Val	0.100	0.040	0.100
W.S. Elev (ft)	584.09	Reach Len. (ft)			
Crit W/S (ft)	584.09	Flow Area (sq ft)	36.20	69.91	8.49
E.G. Slope (ft/ft)	0.011940	Area (sq ft)	36.20	69.91	8.49
Q Total (cfs)	740.00	Flow (cfs)	59.70	687.38	12.92
Top Width (ft)	65.87	Top Width (ft)	35.29	18.00	12.58
Vel Total (ft/s)	6.46	Avg Vel (ft/s)	1.65	9.55	1.52
Max Chl Dpth (ft)	4.39	Hydr. Depth (ft)	1.03	3.88	0.67
Conv. Total (cfs)	6772.2	Conv. (cfs)	546.3	6107.8	118.2
Length Wid. (ft)		Wetted Per. (ft)	35.35	19.38	12.95
Min Ch El (ft)	579.70	Shear (lb/sq ft)	0.76	2.69	0.49
Alpha	1.98	Stream Power (lb/ft s)	1.26	25.66	0.74
Frictn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

Plan: pr cross 1 Trib 25 bald hill RS: 2300 Profile: 10-YR

E.G. Elev (ft)	583.70	Element	Left OB	Channel	Right OB
Val Head (ft)	0.39	Wt:n-Val		0.040	
W.S. Elev (ft)	583.31	Reach Len. (ft)	80.00	80.00	80.00
Crit W.S. (ft)		Flow Area (sq ft)		37.81	
E.G. Slope (ft/ft)	0.010700	Area (sq ft)		37.81	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	24.50	Top Width (ft)		24.50	
Val Total (ft/s)	5.03	Avg. Vel. (ft/s)		5.03	
Max Chl Dpth (ft)	2.01	Hyd. Depth (ft)		1.54	
Conv. Total (cfs)	1836.8	Conv. (cfs)		1836.8	
Length Wid. (ft)	80.00	Wetted Per. (ft)		25.28	
Min Chl El. (ft)	581.30	Shear (lb/sq ft)		1.00	
Alpha	1.00	Stream Power (lb/ft s)		5.02	
Frictn Loss (ft)	1.19	Cum Volume (acre-ft)		0.06	
C & E Loss (ft)	0.04	Cum SA (acres)		0.04	

Plan: pr cross 1 Trib 25 bald hill RS: 2300 Profile: 50-YR

E.G. Elev (ft)	584.66	Element	Left OB	Channel	Right OB
Val Head (ft)	0.56	Wt:n-Val	0.100	0.040	0.100
W.S. Elev (ft)	584.11	Reach Len. (ft)	80.00	80.00	80.00
Crit W.S. (ft)		Flow Area (sq ft)	0.01	58.09	2.54
E.G. Slope (ft/ft)	0.009386	Area (sq ft)	0.01	58.09	2.54
Q Total (cfs)	350.00	Flow (cfs)	0.00	348.25	1.75
Top Width (ft)	33.66	Top Width (ft)	0.21	26.00	7.64
Val Total (ft/s)	5.77	Avg. Vel. (ft/s)	0.19	5.99	0.69
Max Chl Dpth (ft)	2.81	Hyd. Depth (ft)	0.05	2.23	0.33
Conv. Total (cfs)	3612.6	Conv. (cfs)	0.0	3594.6	18.0
Length Wid. (ft)	80.00	Wetted Per. (ft)	0.24	27.02	7.67
Min Chl El. (ft)	581.30	Shear (lb/sq ft)	0.03	1.26	0.19
Alpha	1.07	Stream Power (lb/ft s)	0.01	7.55	0.13
Frictn Loss (ft)	1.01	Cum Volume (acre-ft)	0.00	0.09	0.00
C & E Loss (ft)	0.05	Cum SA (acres)	0.01	0.04	0.01

Plan: pr cross 1 Trib 25 bald hill RS: 2300 Profile: 100-YR

E.G. Elev (ft)	585.10	Element	Left OB	Channel	Right OB
Val Head (ft)	0.64	Wt:n-Val	0.100	0.040	0.100
W.S. Elev (ft)	584.45	Reach Len. (ft)	80.00	80.00	80.00
Crit W.S. (ft)		Flow Area (sq ft)	0.20	67.06	5.53
E.G. Slope (ft/ft)	0.009056	Area (sq ft)	0.20	67.06	5.53
Q Total (cfs)	440.00	Flow (cfs)	0.10	434.55	5.35
Top Width (ft)	36.62	Top Width (ft)	0.90	26.00	9.71
Val Total (ft/s)	6.04	Avg. Vel. (ft/s)	0.49	6.48	0.97
Max Chl Dpth (ft)	3.15	Hyd. Depth (ft)	0.23	2.58	0.57
Conv. Total (cfs)	4623.7	Conv. (cfs)	1.0	4566.4	56.2
Length Wid. (ft)	80.00	Wetted Per. (ft)	1.01	27.02	9.77
Min Chl El. (ft)	581.30	Shear (lb/sq ft)	0.11	1.40	0.32
Alpha	1.14	Stream Power (lb/ft s)	0.06	9.09	0.31
Frictn Loss (ft)	0.94	Cum Volume (acre-ft)	0.01	0.11	0.01
C & E Loss (ft)	0.05	Cum SA (acres)	0.01	0.04	0.01

Plan: pr cross 1 Trib 25 bald hill RS: 2300 Profile: 500-YR

E.G. Elev (ft)	586.25	Element	Left OB	Channel	Right OB
Val Head (ft)	0.96	Wt:n-Val	0.100	0.040	0.100
W.S. Elev (ft)	585.29	Reach Len. (ft)	80.00	80.00	80.00
Crit W.S. (ft)	584.82	Flow Area (sq ft)	6.29	88.96	15.71
E.G. Slope (ft/ft)	0.009478	Area (sq ft)	6.29	88.96	15.71
Q Total (cfs)	740.00	Flow (cfs)	3.47	712.03	24.51
Top Width (ft)	66.36	Top Width (ft)	26.47	26.00	13.88
Val Total (ft/s)	6.67	Avg. Vel. (ft/s)	0.55	8.00	1.56
Max Chl Dpth (ft)	3.99	Hyd. Depth (ft)	0.24	3.42	1.13
Conv. Total (cfs)	7600.9	Conv. (cfs)	35.6	7313.5	251.7
Length Wid. (ft)	80.00	Wetted Per. (ft)	26.72	27.02	14.03
Min Chl El. (ft)	581.30	Shear (lb/sq ft)	0.14	1.95	0.66
Alpha	1.39	Stream Power (lb/ft s)	0.08	15.59	1.03
Frictn Loss (ft)	0.85	Cum Volume (acre-ft)	0.04	0.15	0.02
C & E Loss (ft)	0.03	Cum SA (acres)	0.06	0.04	0.02

Plan: pr cross 1 Trib 25 bald hill RS: 2400 Profile: 10-YR

E.G. Elev. (ft)	585.42	Element	Left OB	Channel	Right OB
Val Head (ft)	0.66	W/L n-Val		0.040	
W.S. Elev. (ft)	584.76	Reach Len. (ft)	100.00	100.00	100.00
Chl W.S. (ft)	584.76	Flow Area (sq ft)		29.19	
E.G. Slope (ft/ft)	0.022819	Area (sq ft)		29.19	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	22.41	Top Width (ft)		22.41	
Vel Total (ft/s)	6.51	Avg Vel (ft/s)		6.51	
Max Chl Dpth (ft)	1.46	Hydr Depth (ft)		1.30	
Conv. Total (cfs)	1257.8	Conv. (cfs)		1257.8	
Length Wid. (ft)	100.00	Wetted Per. (ft)		23.37	
Min Chl B (ft)	583.30	Shear (lb/sq ft)		1.78	
Alpha	1.00	Stream Power (lb/ft s)		11.58	
Frc'n Loss (ft)	1.51	Cum Volume (acre-ft)		0.14	
C & E Loss (ft)	0.08	Cum SA (acres)		0.09	

Plan: pr cross 1 Trib 25 bald hill RS: 2400 Profile: 50-YR

E.G. Elev. (ft)	586.39	Element	Left OB	Channel	Right OB
Val Head (ft)	0.96	W/L n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	585.43	Reach Len. (ft)	100.00	100.00	100.00
Chl W.S. (ft)	585.43	Flow Area (sq ft)	0.21	44.47	0.31
E.G. Slope (ft/ft)	0.019822	Area (sq ft)	0.21	44.47	0.31
Q Total (cfs)	350.00	Flow (cfs)	0.15	349.63	0.23
Top Width (ft)	25.40	Top Width (ft)	0.96	23.00	1.44
Vel Total (ft/s)	7.78	Avg Vel (ft/s)	0.71	7.86	0.73
Max Chl Dpth (ft)	2.13	Hydr Depth (ft)	0.22	1.93	0.22
Conv. Total (cfs)	2485.9	Conv. (cfs)	1.0	2483.3	1.6
Length Wid. (ft)	100.00	Wetted Per. (ft)	1.05	24.12	1.50
Min Chl B (ft)	583.30	Shear (lb/sq ft)	0.24	2.28	0.26
Alpha	1.02	Stream Power (lb/ft s)	0.17	17.94	0.19
Frc'n Loss (ft)	1.32	Cum Volume (acre-ft)	0.00	0.21	0.01
C & E Loss (ft)	0.12	Cum SA (acres)	0.01	0.10	0.02

Plan: pr cross 1 Trib 25 bald hill RS: 2400 Profile: 100-YR

E.G. Elev. (ft)	586.86	Element	Left OB	Channel	Right OB
Val Head (ft)	1.10	W/L n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	585.75	Reach Len. (ft)	100.00	100.00	100.00
Chl W.S. (ft)	585.75	Flow Area (sq ft)	0.63	51.91	0.95
E.G. Slope (ft/ft)	0.018610	Area (sq ft)	0.63	51.91	0.95
Q Total (cfs)	440.00	Flow (cfs)	0.63	438.39	0.98
Top Width (ft)	27.19	Top Width (ft)	1.68	23.00	2.52
Vel Total (ft/s)	8.23	Avg Vel (ft/s)	1.00	8.45	1.03
Max Chl Dpth (ft)	2.45	Hydr Depth (ft)	0.38	2.26	0.38
Conv. Total (cfs)	3225.4	Conv. (cfs)	4.6	3213.6	7.2
Length Wid. (ft)	100.00	Wetted Per. (ft)	1.84	24.12	2.63
Min Chl B (ft)	583.30	Shear (lb/sq ft)	0.40	2.50	0.42
Alpha	1.05	Stream Power (lb/ft s)	0.40	21.11	0.43
Frc'n Loss (ft)	1.26	Cum Volume (acre-ft)	0.01	0.24	0.01
C & E Loss (ft)	0.14	Cum SA (acres)	0.02	0.10	0.03

Plan: pr cross 1 Trib 25 bald hill RS: 2400 Profile: 500-YR

E.G. Elev. (ft)	588.19	Element	Left OB	Channel	Right OB
Val Head (ft)	1.49	W/L n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	586.70	Reach Len. (ft)	100.00	100.00	100.00
Chl W.S. (ft)	586.70	Flow Area (sq ft)	3.26	73.66	4.97
E.G. Slope (ft/ft)	0.015933	Area (sq ft)	3.26	73.66	4.97
Q Total (cfs)	740.00	Flow (cfs)	5.12	726.90	7.97
Top Width (ft)	32.95	Top Width (ft)	3.91	23.00	6.05
Vel Total (ft/s)	9.04	Avg Vel (ft/s)	1.57	9.87	1.60
Max Chl Dpth (ft)	3.40	Hydr Depth (ft)	0.84	3.20	0.82
Conv. Total (cfs)	5862.6	Conv. (cfs)	40.8	5758.8	63.2
Length Wid. (ft)	100.00	Wetted Per. (ft)	4.26	24.12	6.28
Min Chl B (ft)	583.30	Shear (lb/sq ft)	0.76	3.04	0.79
Alpha	1.17	Stream Power (lb/ft s)	1.20	29.97	1.26
Frc'n Loss (ft)	1.21	Cum Volume (acre-ft)	0.05	0.33	0.05
C & E Loss (ft)	0.16	Cum SA (acres)	0.09	0.10	0.05

Plan: pr cross 1 Trib 25 bald hill RS: 2550 Profile: 10-YR

E.G. Elev. (ft)	588.84	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.64	Wt'n-Val		0.040	
W.S. Elev. (ft)	588.20	Reach Len. (ft)	150.00	150.00	150.00
Ch W.S. (ft)	588.20	Flow Area (sq ft)		29.49	
E.G. Slope (ft/ft)	0.022567	Area (sq ft)		29.49	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	23.26	Top Width (ft)		23.26	
Vel Total (ft/s)	6.44	Avg Vel. (ft/s)		6.44	
Max Ch Dpth (ft)	1.90	Hydr. Depth (ft)		1.27	
Conv. Total (cfs)	1264.8	Conv. (cfs)		1264.8	
Length Wid. (ft)	150.00	Wetted Per. (ft)		23.78	
Min Ch El. (ft)	586.30	Shear (lb/sq ft)		1.75	
Alpha	1.00	Stream Power (lb/ft s)		11.26	
Frc'n Loss (ft)	3.40	Cum Volume (acre-ft)		0.24	
C & E Loss (ft)	0.00	Cum SA (acres)		0.17	

Plan: pr cross 1 Trib 25 bald hill RS: 2550 Profile: 50-YR

E.G. Elev. (ft)	589.76	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.89	Wt'n-Val		0.040	
W.S. Elev. (ft)	588.87	Reach Len. (ft)	150.00	150.00	150.00
Ch W.S. (ft)	588.87	Flow Area (sq ft)		46.29	
E.G. Slope (ft/ft)	0.020405	Area (sq ft)		46.29	
Q Total (cfs)	350.00	Flow (cfs)		350.00	
Top Width (ft)	26.41	Top Width (ft)		26.41	
Vel Total (ft/s)	7.56	Avg Vel. (ft/s)		7.56	
Max Ch Dpth (ft)	2.57	Hydr. Depth (ft)		1.75	
Conv. Total (cfs)	2450.2	Conv. (cfs)		2450.2	
Length Wid. (ft)	150.00	Wetted Per. (ft)		27.22	
Min Ch El. (ft)	586.30	Shear (lb/sq ft)		2.17	
Alpha	1.00	Stream Power (lb/ft s)		16.38	
Frc'n Loss (ft)	3.02	Cum Volume (acre-ft)	0.00	0.37	0.01
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.18	0.02

Plan: pr cross 1 Trib 25 bald hill RS: 2550 Profile: 100-YR

E.G. Elev. (ft)	590.19	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.02	Wt'n-Val		0.040	0.100
W.S. Elev. (ft)	589.17	Reach Len. (ft)	150.00	150.00	150.00
Ch W.S. (ft)	589.17	Flow Area (sq ft)		54.25	0.01
E.G. Slope (ft/ft)	0.019601	Area (sq ft)		54.25	0.01
Q Total (cfs)	440.00	Flow (cfs)		439.95	0.00
Top Width (ft)	28.36	Top Width (ft)		27.00	0.17
Vel Total (ft/s)	8.09	Avg Vel. (ft/s)		8.11	0.32
Max Ch Dpth (ft)	2.87	Hydr. Depth (ft)		2.01	0.09
Conv. Total (cfs)	3142.8	Conv. (cfs)		3142.5	0.0
Length Wid. (ft)	150.00	Wetted Per. (ft)		27.86	0.24
Min Ch El. (ft)	586.30	Shear (lb/sq ft)		2.38	0.07
Alpha	1.00	Stream Power (lb/ft s)		19.33	0.02
Frc'n Loss (ft)	2.86	Cum Volume (acre-ft)		0.43	0.02
C & E Loss (ft)	0.01	Cum SA (acres)		0.18	0.03

Plan: pr cross 1 Trib 25 bald hill RS: 2550 Profile: 500-YR

E.G. Elev. (ft)	591.42	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.36	Wt'n-Val		0.040	0.100
W.S. Elev. (ft)	590.06	Reach Len. (ft)	150.00	150.00	150.00
Ch W.S. (ft)	590.06	Flow Area (sq ft)		78.22	0.56
E.G. Slope (ft/ft)	0.018132	Area (sq ft)		78.22	0.56
Q Total (cfs)	740.00	Flow (cfs)		734.57	0.54
Top Width (ft)	35.29	Top Width (ft)		27.00	1.12
Vel Total (ft/s)	8.95	Avg Vel. (ft/s)		9.39	0.96
Max Ch Dpth (ft)	3.76	Hydr. Depth (ft)		2.90	0.50
Conv. Total (cfs)	5826.3	Conv. (cfs)		5783.5	4.3
Length Wid. (ft)	150.00	Wetted Per. (ft)		27.86	1.54
Min Ch El. (ft)	586.30	Shear (lb/sq ft)		2.83	0.37
Alpha	1.09	Stream Power (lb/ft s)		26.56	0.35
Frc'n Loss (ft)	2.40	Cum Volume (acre-ft)		0.59	0.06
C & E Loss (ft)	0.01	Cum SA (acres)		0.18	0.06

Plan: pr cross 1 Trib 25 bald hill RS: 2800 Profile: 10-YR

E.G. Elev. (ft)	594.61	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.66	W/n-Val	0.100	0.040	
W.S. Elev. (ft)	593.95	Reach Len. (ft)	200.00	250.00	250.00
Crit. W.S. (ft)	593.95	Flow Area (sq ft)	19.60	22.18	
E.G. Slope (ft/ft)	0.022744	Area (sq ft)	19.60	22.18	
Q Total (cfs)	190.00	Flow (cfs)	31.81	168.19	
Top Width (ft)	45.95	Top Width (ft)	31.69	14.26	
Vel Total (ft/s)	4.55	Avg. Vel. (ft/s)	1.62	7.13	
Max Chl Dpth (ft)	2.75	Hydr. Depth (ft)	0.62	1.55	
Conv. Total (cfs)	1259.8	Conv. (cfs)	210.9	1048.9	
Length Wid. (ft)	245.81	Wetted Per. (ft)	31.82	15.44	
Min Chl El. (ft)	591.20	Shear (lb/sq ft)	0.87	2.04	
Alpha	2.07	Stream Power (lb/ft s)	1.42	14.55	
Froth Loss (ft)	5.57	Cum Volume (acre-ft)	0.05	0.39	
C & E Loss (ft)	0.01	Cum SA (acres)	0.07	0.28	

Plan: pr cross 1 Trib 25 bald hill RS: 2800 Profile: 50-YR

E.G. Elev. (ft)	595.28	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.55	W/n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	594.73	Reach Len. (ft)	200.00	250.00	250.00
Crit. W.S. (ft)	594.73	Flow Area (sq ft)	70.95	34.40	0.08
E.G. Slope (ft/ft)	0.015537	Area (sq ft)	70.95	34.40	0.08
Q Total (cfs)	350.00	Flow (cfs)	106.73	243.24	0.03
Top Width (ft)	114.06	Top Width (ft)	96.69	16.67	0.70
Vel Total (ft/s)	3.32	Avg. Vel. (ft/s)	1.50	7.07	0.42
Max Chl Dpth (ft)	3.53	Hydr. Depth (ft)	0.73	2.06	0.11
Conv. Total (cfs)	2807.9	Conv. (cfs)	856.2	1951.4	0.3
Length Wid. (ft)	242.38	Wetted Per. (ft)	96.92	18.23	0.73
Min Chl El. (ft)	591.20	Shear (lb/sq ft)	0.71	1.83	0.10
Alpha	3.22	Stream Power (lb/ft s)	1.07	12.94	0.04
Froth Loss (ft)	4.30	Cum Volume (acre-ft)	0.17	0.60	0.01
C & E Loss (ft)	0.03	Cum SA (acres)	0.23	0.31	0.02

Plan: pr cross 1 Trib 25 bald hill RS: 2800 Profile: 100-YR

E.G. Elev. (ft)	595.53	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.52	W/n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	595.01	Reach Len. (ft)	200.00	250.00	250.00
Crit. W.S. (ft)	595.01	Flow Area (sq ft)	100.93	39.14	0.40
E.G. Slope (ft/ft)	0.013774	Area (sq ft)	100.93	39.14	0.40
Q Total (cfs)	440.00	Flow (cfs)	160.14	279.89	0.27
Top Width (ft)	134.59	Top Width (ft)	116.02	17.00	1.56
Vel Total (ft/s)	3.13	Avg. Vel. (ft/s)	1.59	7.14	0.68
Max Chl Dpth (ft)	3.81	Hydr. Depth (ft)	0.87	2.30	0.25
Conv. Total (cfs)	3748.1	Conv. (cfs)	1364.5	2382.3	2.3
Length Wid. (ft)	240.30	Wetted Per. (ft)	116.29	18.66	1.64
Min Chl El. (ft)	591.20	Shear (lb/sq ft)	0.75	1.80	0.21
Alpha	3.40	Stream Power (lb/ft s)	1.18	12.89	0.14
Froth Loss (ft)	3.93	Cum Volume (acre-ft)	0.24	0.69	0.02
C & E Loss (ft)	0.05	Cum SA (acres)	0.29	0.31	0.04

Plan: pr cross 1 Trib 25 bald hill RS: 2800 Profile: 500-YR

E.G. Elev. (ft)	596.10	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.65	W/n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	595.45	Reach Len. (ft)	200.00	250.00	250.00
Crit. W.S. (ft)	595.45	Flow Area (sq ft)	152.86	46.70	1.40
E.G. Slope (ft/ft)	0.015654	Area (sq ft)	152.86	46.70	1.40
Q Total (cfs)	740.00	Flow (cfs)	338.30	400.17	1.53
Top Width (ft)	137.29	Top Width (ft)	117.36	17.00	2.93
Vel Total (ft/s)	3.68	Avg. Vel. (ft/s)	2.21	8.57	1.10
Max Chl Dpth (ft)	4.25	Hydr. Depth (ft)	1.30	2.75	0.48
Conv. Total (cfs)	5914.5	Conv. (cfs)	2703.9	3198.4	12.3
Length Wid. (ft)	238.41	Wetted Per. (ft)	117.70	18.66	3.08
Min Chl El. (ft)	591.20	Shear (lb/sq ft)	1.27	2.45	0.44
Alpha	3.09	Stream Power (lb/ft s)	2.81	20.96	0.49
Froth Loss (ft)	3.79	Cum Volume (acre-ft)	0.42	0.95	0.06
C & E Loss (ft)	0.07	Cum SA (acres)	0.40	0.31	0.07

Plan: pr cross 1 Trib 25 bald hill RS: 2990 Profile: 10-YR

E.G. Elev. (ft)	596.32	Element	Left OB	Channel	Right OB
Vel. Head (ft)	0.25	Wt. n-Val.		0.040	
W.S. Elev. (ft)	596.07	Reach Len. (ft)	150.00	190.00	190.00
Crit. W.S. (ft)		Flow Area (sq ft)		47.24	
E.G. Slope (ft/ft)	0.004729	Area (sq ft)		47.24	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	22.39	Top Width (ft)		22.39	
Vel. Total (ft/s)	4.02	Avg. Vel. (ft/s)		4.02	
Max Ch. Dpth (ft)	2.97	Hydr. Depth (ft)		2.11	
Conv. Total (cfs)	2763.0	Conv. (cfs)		2763.0	
Length Wid. (ft)	186.65	Wetted Per. (ft)		23.91	
Min Ch. El. (ft)	593.10	Shear (lb/sq ft)		0.58	
Alpha	1.00	Stream Power (lb/ft s)		2.35	
Froth Loss (ft)	1.67	Cum. Volume (acre-ft)	0.08	0.54	
C & E Loss (ft)	0.04	Cum. SA (acres)	0.13	0.36	

Plan: pr cross 1 Trib 25 bald hill RS: 2990 Profile: 50-YR

E.G. Elev. (ft)	597.19	Element	Left OB	Channel	Right OB
Vel. Head (ft)	0.50	Wt. n-Val.		0.040	
W.S. Elev. (ft)	596.68	Reach Len. (ft)	150.00	190.00	190.00
Crit. W.S. (ft)		Flow Area (sq ft)		61.43	
E.G. Slope (ft/ft)	0.007406	Area (sq ft)		61.43	
Q Total (cfs)	350.00	Flow (cfs)		350.00	
Top Width (ft)	23.85	Top Width (ft)		23.85	
Vel. Total (ft/s)	5.70	Avg. Vel. (ft/s)		5.70	
Max Ch. Dpth (ft)	3.58	Hydr. Depth (ft)		2.58	
Conv. Total (cfs)	4066.9	Conv. (cfs)		4066.9	
Length Wid. (ft)	183.90	Wetted Per. (ft)		25.82	
Min Ch. El. (ft)	593.10	Shear (lb/sq ft)		1.10	
Alpha	1.00	Stream Power (lb/ft s)		6.27	
Froth Loss (ft)	1.91	Cum. Volume (acre-ft)	0.29	0.81	0.01
C & E Loss (ft)	0.00	Cum. SA (acres)	0.40	0.39	0.03

Plan: pr cross 1 Trib 25 bald hill RS: 2990 Profile: 100-YR

E.G. Elev. (ft)	597.58	Element	Left OB	Channel	Right OB
Vel. Head (ft)	0.67	Wt. n-Val.	0.100	0.040	0.100
W.S. Elev. (ft)	596.90	Reach Len. (ft)	150.00	190.00	190.00
Crit. W.S. (ft)		Flow Area (sq ft)	0.49	66.75	0.01
E.G. Slope (ft/ft)	0.008958	Area (sq ft)	0.49	66.75	0.01
Q Total (cfs)	440.00	Flow (cfs)	0.15	439.85	0.00
Top Width (ft)	28.94	Top Width (ft)	4.77	24.00	0.17
Vel. Total (ft/s)	6.54	Avg. Vel. (ft/s)	0.31	6.59	0.18
Max Ch. Dpth (ft)	3.80	Hydr. Depth (ft)	0.10	2.78	0.05
Conv. Total (cfs)	4648.8	Conv. (cfs)	1.6	4647.2	0.0
Length Wid. (ft)	182.71	Wetted Per. (ft)	4.77	26.02	0.20
Min Ch. El. (ft)	593.10	Shear (lb/sq ft)	0.06	1.43	0.02
Alpha	1.01	Stream Power (lb/ft s)	0.02	9.45	0.00
Froth Loss (ft)	2.01	Cum. Volume (acre-ft)	0.42	0.93	0.02
C & E Loss (ft)	0.05	Cum. SA (acres)	0.50	0.40	0.04

Plan: pr cross 1 Trib 25 bald hill RS: 2990 Profile: 500-YR

E.G. Elev. (ft)	598.77	Element	Left OB	Channel	Right OB
Vel. Head (ft)	1.21	Wt. n-Val.	0.100	0.040	0.100
W.S. Elev. (ft)	597.56	Reach Len. (ft)	150.00	190.00	190.00
Crit. W.S. (ft)	597.27	Flow Area (sq ft)	8.20	82.41	0.48
E.G. Slope (ft/ft)	0.012283	Area (sq ft)	8.20	82.41	0.48
Q Total (cfs)	740.00	Flow (cfs)	7.80	731.83	0.37
Top Width (ft)	43.95	Top Width (ft)	18.69	24.00	1.26
Vel. Total (ft/s)	8.12	Avg. Vel. (ft/s)	0.95	8.86	0.78
Max Ch. Dpth (ft)	4.46	Hydr. Depth (ft)	0.44	3.43	0.36
Conv. Total (cfs)	6676.9	Conv. (cfs)	70.3	6603.2	3.3
Length Wid. (ft)	180.65	Wetted Per. (ft)	18.71	26.02	1.47
Min Ch. El. (ft)	593.10	Shear (lb/sq ft)	0.34	2.43	0.25
Alpha	1.18	Stream Power (lb/ft s)	0.32	21.57	0.19
Froth Loss (ft)	2.50	Cum. Volume (acre-ft)	0.70	1.23	0.07
C & E Loss (ft)	0.17	Cum. SA (acres)	0.63	0.40	0.08

Plan: pr cross 1 Trib 25 bald hill RS: 3080 Profile: 10-YR

E.G. Elev (ft)	597.11	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.54	W.L.n-Val		0.040	
W.S. Elev (ft)	596.57	Reach Len. (ft)	90.00	90.00	90.00
Crit W.S. (ft)	596.22	Flow Area (sq ft)		32.27	
E.G. Slope (ft/ft)	0.012194	Area (sq ft)		32.27	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	17.33	Top Width (ft)		17.33	
Vel Total (ft/s)	5.89	Avg Vel (ft/s)		5.89	
Max Ch Dpth (ft)	2.57	Hydr. Depth (ft)		1.86	
Conv. Total (cfs)	1720.6	Conv. (cfs)		1720.6	
Length Wid. (ft)	90.00	Wetted Per. (ft)		18.76	
Min Ch El (ft)	594.00	Shear (lb/sq ft)		1.31	
Alpha	1.00	Stream Power (lb/ft s)		7.71	
Frcn Loss (ft)	0.65	Cum Volume (acre-ft)	0.08	0.62	
C & E Loss (ft)	0.14	Cum SA (acres)	0.13	0.40	

Plan: pr cross 1 Trib 25 bald hill RS: 3080 Profile: 50-YR

E.G. Elev (ft)	598.24	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.86	W.L.n-Val		0.040	0.100
W.S. Elev (ft)	597.38	Reach Len. (ft)	90.00	90.00	90.00
Crit W.S. (ft)	597.05	Flow Area (sq ft)		47.03	0.29
E.G. Slope (ft/ft)	0.013440	Area (sq ft)		47.03	0.29
Q Total (cfs)	350.00	Flow (cfs)		349.84	0.16
Top Width (ft)	20.38	Top Width (ft)		18.84	1.53
Vel Total (ft/s)	7.40	Avg Vel (ft/s)		7.44	0.56
Max Ch Dpth (ft)	3.38	Hydr. Depth (ft)		2.50	0.19
Conv. Total (cfs)	3019.1	Conv. (cfs)		3017.7	1.4
Length Wid. (ft)	90.00	Wetted Per. (ft)		20.72	1.58
Min Ch El (ft)	594.00	Shear (lb/sq ft)		1.90	0.16
Alpha	1.01	Stream Power (lb/ft s)		14.17	0.09
Frcn Loss (ft)	0.88	Cum Volume (acre-ft)	0.29	0.92	0.01
C & E Loss (ft)	0.18	Cum SA (acres)	0.40	0.44	0.03

Plan: pr cross 1 Trib 25 bald hill RS: 3080 Profile: 100-YR

E.G. Elev (ft)	598.76	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.05	W.L.n-Val	0.100	0.040	0.100
W.S. Elev (ft)	597.71	Reach Len. (ft)	90.00	90.00	90.00
Crit W.S. (ft)	597.48	Flow Area (sq ft)	0.18	53.33	1.02
E.G. Slope (ft/ft)	0.014099	Area (sq ft)	0.18	53.33	1.02
Q Total (cfs)	440.00	Flow (cfs)	0.07	439.04	0.89
Top Width (ft)	23.58	Top Width (ft)	1.72	19.00	2.86
Vel Total (ft/s)	8.07	Avg Vel (ft/s)	0.40	8.23	0.87
Max Ch Dpth (ft)	3.71	Hydr. Depth (ft)	0.11	2.81	0.36
Conv. Total (cfs)	3705.6	Conv. (cfs)	0.6	3697.5	7.5
Length Wid. (ft)	90.00	Wetted Per. (ft)	1.73	20.92	2.95
Min Ch El (ft)	594.00	Shear (lb/sq ft)	0.09	2.24	0.31
Alpha	1.04	Stream Power (lb/ft s)	0.04	18.48	0.27
Frcn Loss (ft)	1.00	Cum Volume (acre-ft)	0.42	1.05	0.02
C & E Loss (ft)	0.19	Cum SA (acres)	0.51	0.44	0.04

Plan: pr cross 1 Trib 25 bald hill RS: 3080 Profile: 500-YR

E.G. Elev (ft)	600.23	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.51	W.L.n-Val	0.100	0.040	0.100
W.S. Elev (ft)	598.72	Reach Len. (ft)	90.00	90.00	90.00
Crit W.S. (ft)	598.72	Flow Area (sq ft)	5.91	72.41	7.08
E.G. Slope (ft/ft)	0.013752	Area (sq ft)	5.94	72.41	7.20
Q Total (cfs)	740.00	Flow (cfs)	7.73	721.87	10.40
Top Width (ft)	39.22	Top Width (ft)	9.75	19.00	10.47
Vel Total (ft/s)	8.67	Avg Vel (ft/s)	1.31	9.97	1.47
Max Ch Dpth (ft)	4.72	Hydr. Depth (ft)	0.66	3.81	0.79
Conv. Total (cfs)	6310.2	Conv. (cfs)	66.0	6155.6	88.7
Length Wid. (ft)	90.00	Wetted Per. (ft)	9.07	20.92	9.15
Min Ch El (ft)	594.00	Shear (lb/sq ft)	0.56	2.97	0.68
Alpha	1.29	Stream Power (lb/ft s)	0.73	29.63	0.98
Frcn Loss (ft)	1.17	Cum Volume (acre-ft)	0.71	1.39	0.07
C & E Loss (ft)	0.15	Cum SA (acres)	0.66	0.44	0.09

Plan: pr cross 1 Trib 25 bald hill RS: 3110 Culv Group: Culvert #1 Profile: 10-YR

Q Culv Group (cfs)	190.00	Culv Full Len (ft)	
# Barrels	1	Culv Vel US (ft/s)	3.77
Q Barrel (cfs)	190.00	Culv Vel DS (ft/s)	3.22
E.G. US (ft)	597.35	Culv Inv El Up (ft)	593.00
W.S. US (ft)	596.67	Culv Inv El Dn (ft)	592.50
E.G. DS (ft)	597.11	Culv Frctn Ls (ft)	0.13
W.S. DS (ft)	596.57	Culv Exit Loss (ft)	
Delta EG (ft)	0.24	Culv Entr Loss (ft)	0.11
Delta WS (ft)	0.10	Q Weir (cfs)	
E.G. IC (ft)	596.83	Weir Sta Lft (ft)	
E.G. OC (ft)	597.35	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	597.02	Weir Max Depth (ft)	
Culv WS Outlet (ft)	596.95	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	3.90	Weir Flow Area (sq ft)	
Culv Cr Depth (ft)	2.91	Min El Weir Flow (ft)	616.91

Plan: pr cross 1 Trib 25 bald hill RS: 3110 Culv Group: Culvert #1 Profile: 50-YR

Q Culv Group (cfs)	350.00	Culv Full Len (ft)	
# Barrels	1	Culv Vel US (ft/s)	4.98
Q Barrel (cfs)	350.00	Culv Vel DS (ft/s)	4.45
E.G. US (ft)	598.59	Culv Inv El Up (ft)	593.00
W.S. US (ft)	597.88	Culv Inv El Dn (ft)	592.50
E.G. DS (ft)	598.24	Culv Frctn Ls (ft)	0.16
W.S. DS (ft)	597.38	Culv Exit Loss (ft)	0.00
Delta EG (ft)	0.35	Culv Entr Loss (ft)	0.19
Delta WS (ft)	0.50	Q Weir (cfs)	
E.G. IC (ft)	598.05	Weir Sta Lft (ft)	
E.G. OC (ft)	598.59	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	598.02	Weir Max Depth (ft)	
Culv WS Outlet (ft)	597.93	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	4.11	Weir Flow Area (sq ft)	
Culv Cr Depth (ft)	3.62	Min El Weir Flow (ft)	616.91

Plan: pr cross 1 Trib 25 bald hill RS: 3110 Culv Group: Culvert #1 Profile: 100-YR

Q Culv Group (cfs)	440.00	Culv Full Len (ft)	
# Barrels	1	Culv Vel US (ft/s)	5.55
Q Barrel (cfs)	440.00	Culv Vel DS (ft/s)	5.03
E.G. US (ft)	599.18	Culv Inv El Up (ft)	593.00
W.S. US (ft)	598.44	Culv Inv El Dn (ft)	592.50
E.G. DS (ft)	598.76	Culv Frctn Ls (ft)	0.18
W.S. DS (ft)	597.71	Culv Exit Loss (ft)	0.00
Delta EG (ft)	0.42	Culv Entr Loss (ft)	0.24
Delta WS (ft)	0.73	Q Weir (cfs)	
E.G. IC (ft)	598.65	Weir Sta Lft (ft)	
E.G. OC (ft)	599.18	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	598.46	Weir Max Depth (ft)	
Culv WS Outlet (ft)	598.37	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	4.51	Weir Flow Area (sq ft)	
Culv Cr Depth (ft)	3.97	Min El Weir Flow (ft)	616.91

Plan: pr cross 1 Trib 25 bald hill RS: 3110 Culv Group: Culvert #1 Profile: 500-YR

Q Culv Group (cfs)	740.00	Culv Full Len (ft)	
# Barrels	1	Culv Vel US (ft/s)	7.19
Q Barrel (cfs)	740.00	Culv Vel DS (ft/s)	6.69
E.G. US (ft)	600.85	Culv Inv El Up (ft)	593.00
W.S. US (ft)	600.09	Culv Inv El Dn (ft)	592.50
E.G. DS (ft)	600.23	Culv Frctn Ls (ft)	0.22
W.S. DS (ft)	598.72	Culv Exit Loss (ft)	0.00
Delta EG (ft)	0.63	Culv Entr Loss (ft)	0.40
Delta WS (ft)	1.38	Q Weir (cfs)	
E.G. IC (ft)	600.41	Weir Sta Lft (ft)	
E.G. OC (ft)	600.85	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	599.65	Weir Max Depth (ft)	
Culv WS Outlet (ft)	599.53	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	5.65	Weir Flow Area (sq ft)	
Culv Cr Depth (ft)	4.99	Min El Weir Flow (ft)	616.91

Plan: pr cross 1 Trib 25 bald hill RS: 3140 Profile: 10-YR

E.G. Elev. (ft)	597.42	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.75	WLn-Val		0.040	
W.S. Elev. (ft)	596.67	Reach Len. (ft)	60.00	60.00	60.00
Crit W.S. (ft)	596.67	Flow Area (sq ft)		27.30	
E.G. Slope (ft/ft)	0.021778	Area (sq ft)		27.30	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	18.25	Top Width (ft)		18.25	
Vel Total (ft/s)	6.96	Avg. Vel. (ft/s)		6.96	
Max Chl Dpth (ft)	2.17	Hydr. Depth (ft)		1.50	
Conv. Total (cfs)	1287.5	Conv. (cfs)		1287.5	
Length Wid. (ft)	60.00	Wetted Per. (ft)		19.08	
Min Ch El. (ft)	594.50	Shear (lb/sq ft)		1.95	
Alpha	1.00	Stream Power (lb/ft s)		13.54	
Frctn Loss (ft)		Cum Volume (acre-ft)	0.08	0.66	
C & E Loss (ft)		Cum SA (acres)	0.13	0.42	

Plan: pr cross 1 Trib 25 bald hill RS: 3140 Profile: 50-YR

E.G. Elev. (ft)	598.59	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.71	WLn-Val	0.100	0.040	0.100
W.S. Elev. (ft)	597.88	Reach Len. (ft)	60.00	60.00	60.00
Crit W.S. (ft)	597.47	Flow Area (sq ft)	0.44	51.68	0.40
E.G. Slope (ft/ft)	0.010733	Area (sq ft)	0.44	51.68	0.40
Q Total (cfs)	350.00	Flow (cfs)	0.22	349.52	0.26
Top Width (ft)	24.67	Top Width (ft)	2.29	21.00	1.37
Vel Total (ft/s)	6.66	Avg. Vel. (ft/s)	0.51	6.76	0.64
Max Chl Dpth (ft)	3.38	Hydr. Depth (ft)	0.19	2.46	0.29
Conv. Total (cfs)	3378.4	Conv. (cfs)	2.1	3373.8	2.5
Length Wid. (ft)	60.00	Wetted Per. (ft)	2.33	22.19	1.49
Min Ch El. (ft)	594.50	Shear (lb/sq ft)	0.13	1.56	0.18
Alpha	1.03	Stream Power (lb/ft s)	0.06	10.56	0.11
Frctn Loss (ft)		Cum Volume (acre-ft)	0.29	0.99	0.01
C & E Loss (ft)		Cum SA (acres)	0.40	0.47	0.03

Plan: pr cross 1 Trib 25 bald hill RS: 3140 Profile: 100-YR

E.G. Elev. (ft)	599.17	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.73	WLn-Val	0.100	0.040	0.100
W.S. Elev. (ft)	598.44	Reach Len. (ft)	60.00	60.00	60.00
Crit W.S. (ft)	597.82	Flow Area (sq ft)	2.67	63.46	1.54
E.G. Slope (ft/ft)	0.008440	Area (sq ft)	2.67	63.46	1.54
Q Total (cfs)	440.00	Flow (cfs)	2.19	436.44	1.37
Top Width (ft)	29.35	Top Width (ft)	5.66	21.00	2.69
Vel Total (ft/s)	6.50	Avg. Vel. (ft/s)	0.82	6.88	0.89
Max Chl Dpth (ft)	3.94	Hydr. Depth (ft)	0.47	3.02	0.57
Conv. Total (cfs)	4789.4	Conv. (cfs)	23.8	4750.7	14.9
Length Wid. (ft)	60.00	Wetted Per. (ft)	5.74	22.19	2.92
Min Ch El. (ft)	594.50	Shear (lb/sq ft)	0.25	1.51	0.28
Alpha	1.11	Stream Power (lb/ft s)	0.20	10.36	0.25
Frctn Loss (ft)		Cum Volume (acre-ft)	0.42	1.13	0.02
C & E Loss (ft)		Cum SA (acres)	0.51	0.47	0.05

Plan: pr cross 1 Trib 25 bald hill RS: 3140 Profile: 500-YR

E.G. Elev. (ft)	600.85	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.75	WLn-Val	0.100	0.040	0.100
W.S. Elev. (ft)	600.09	Reach Len. (ft)	60.00	60.00	60.00
Crit W.S. (ft)	598.89	Flow Area (sq ft)	15.66	98.14	9.57
E.G. Slope (ft/ft)	0.005091	Area (sq ft)	34.40	98.14	10.78
Q Total (cfs)	740.00	Flow (cfs)	25.79	700.93	13.28
Top Width (ft)	61.89	Top Width (ft)	31.23	21.00	9.66
Vel Total (ft/s)	6.00	Avg. Vel. (ft/s)	1.65	7.14	1.39
Max Chl Dpth (ft)	5.59	Hydr. Depth (ft)	1.96	4.67	1.59
Conv. Total (cfs)	10371.4	Conv. (cfs)	361.5	9623.7	186.2
Length Wid. (ft)	60.00	Wetted Per. (ft)	8.09	22.19	6.39
Min Ch El. (ft)	594.50	Shear (lb/sq ft)	0.62	1.41	0.48
Alpha	1.35	Stream Power (lb/ft s)	1.01	10.04	0.66
Frctn Loss (ft)		Cum Volume (acre-ft)	0.74	1.51	0.09
C & E Loss (ft)		Cum SA (acres)	0.69	0.47	0.11

Plan: pr cross 1 Trib 25 bald hill RS: 3200 Profile: 10-YR

E.G. Elev. (ft)	597.90	Element	Left CB	Channel	Right CB
Val Head (ft)	0.18	W: n-Val		0.040	
W.S. Elev. (ft)	597.72	Reach Len. (ft)	65.00	65.00	65.00
Crit W.S. (ft)		Flow Area (sq ft)		55.82	
E.G. Slope (ft/ft)	0.003031	Area (sq ft)		55.82	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	24.47	Top Width (ft)		24.47	
Vel Total (ft/s)	3.40	Avg Vel (ft/s)		3.40	
Max Chl Dpth (ft)	3.02	Hydr Depth (ft)		2.28	
Conv. Total (cfs)	3450.9	Conv. (cfs)		3450.9	
Length Wtd. (ft)	65.00	Wetted Per. (ft)		26.00	
Min Ch El (ft)	594.70	Shear (lb/sq ft)		0.41	
Alpha	1.00	Stream Power (lb/ft s)		1.38	
Frc'n Loss (ft)	0.42	Cum Volume (acre-ft)	0.08	0.72	
C & E Loss (ft)	0.06	Cum SA (acres)	0.13	0.46	

Plan: pr cross 1 Trib 25 bald hill RS: 3200 Profile: 50-YR

E.G. Elev. (ft)	598.99	Element	Left CB	Channel	Right CB
Val Head (ft)	0.29	W: n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	598.71	Reach Len. (ft)	65.00	65.00	65.00
Crit W.S. (ft)		Flow Area (sq ft)	0.13	81.42	0.26
E.G. Slope (ft/ft)	0.003384	Area (sq ft)	0.13	81.42	0.26
Q Total (cfs)	350.00	Flow (cfs)	0.02	349.93	0.05
Top Width (ft)	31.93	Top Width (ft)	2.43	27.00	2.50
Vel Total (ft/s)	4.28	Avg Vel (ft/s)	0.12	4.30	0.19
Max Chl Dpth (ft)	4.01	Hydr Depth (ft)	0.05	3.02	0.10
Conv. Total (cfs)	6016.3	Conv. (cfs)	0.3	6015.2	0.9
Length Wtd. (ft)	65.00	Wetted Per. (ft)	2.43	29.03	2.50
Min Ch El (ft)	594.70	Shear (lb/sq ft)	0.01	0.59	0.02
Alpha	1.01	Stream Power (lb/ft s)	0.00	2.55	0.00
Frc'n Loss (ft)	0.36	Cum Volume (acre-ft)	0.29	1.09	0.01
C & E Loss (ft)	0.04	Cum SA (acres)	0.40	0.50	0.03

Plan: pr cross 1 Trib 25 bald hill RS: 3200 Profile: 100-YR

E.G. Elev. (ft)	599.53	Element	Left CB	Channel	Right CB
Val Head (ft)	0.33	W: n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	599.20	Reach Len. (ft)	65.00	65.00	65.00
Crit W.S. (ft)		Flow Area (sq ft)	3.86	94.74	2.89
E.G. Slope (ft/ft)	0.003188	Area (sq ft)	3.86	94.74	2.89
Q Total (cfs)	440.00	Flow (cfs)	1.57	437.19	1.25
Top Width (ft)	46.23	Top Width (ft)	11.42	27.00	7.81
Vel Total (ft/s)	4.34	Avg Vel (ft/s)	0.41	4.61	0.43
Max Chl Dpth (ft)	4.50	Hydr Depth (ft)	0.34	3.51	0.37
Conv. Total (cfs)	7793.4	Conv. (cfs)	27.8	7743.5	22.1
Length Wtd. (ft)	65.00	Wetted Per. (ft)	11.43	29.03	7.84
Min Ch El (ft)	594.70	Shear (lb/sq ft)	0.07	0.65	0.07
Alpha	1.13	Stream Power (lb/ft s)	0.03	3.00	0.03
Frc'n Loss (ft)	0.32	Cum Volume (acre-ft)	0.42	1.25	0.02
C & E Loss (ft)	0.04	Cum SA (acres)	0.52	0.51	0.05

Plan: pr cross 1 Trib 25 bald hill RS: 3200 Profile: 500-YR

E.G. Elev. (ft)	601.10	Element	Left CB	Channel	Right CB
Val Head (ft)	0.38	W: n-Val	0.100	0.040	0.100
W.S. Elev. (ft)	600.73	Reach Len. (ft)	65.00	65.00	65.00
Crit W.S. (ft)		Flow Area (sq ft)	37.12	135.95	25.04
E.G. Slope (ft/ft)	0.002392	Area (sq ft)	37.12	135.95	25.04
Q Total (cfs)	740.00	Flow (cfs)	28.10	691.40	20.49
Top Width (ft)	82.65	Top Width (ft)	34.83	27.00	20.82
Vel Total (ft/s)	3.74	Avg Vel (ft/s)	0.76	5.09	0.82
Max Chl Dpth (ft)	6.03	Hydr Depth (ft)	1.07	5.04	1.20
Conv. Total (cfs)	15130.8	Conv. (cfs)	574.6	14137.2	419.0
Length Wtd. (ft)	65.00	Wetted Per. (ft)	34.90	29.03	20.94
Min Ch El (ft)	594.70	Shear (lb/sq ft)	0.16	0.70	0.18
Alpha	1.73	Stream Power (lb/ft s)	0.12	3.56	0.15
Frc'n Loss (ft)	0.22	Cum Volume (acre-ft)	0.80	1.69	0.11
C & E Loss (ft)	0.04	Cum SA (acres)	0.74	0.51	0.13

Plan: pr cross 1 Trib 25 bald hill RS: 3300 Profile: 10-YR

E.G. Elev (ft)	598.29	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.24	W/L n-Val		0.040	
W.S. Elev (ft)	598.05	Reach Len. (ft)	100.00	100.00	100.00
Chn W.S. (ft)		Flow Area (sq ft)		47.87	
E.G. Slope (ft/ft)	0.004663	Area (sq ft)		47.87	
Q Total (cfs)	190.00	Flow (cfs)		190.00	
Top Width (ft)	23.31	Top Width (ft)		23.31	
Vel Total (ft/s)	3.97	Avg Vel. (ft/s)		3.97	
Max Chl Dpth (ft)	3.05	Hydr. Depth (ft)		2.05	
Conv. Total (cfs)	2782.5	Conv. (cfs)		2782.5	
Length Wid. (ft)	100.00	Wetted Per. (ft)		24.46	
Min Ch El (ft)	595.00	Shear (lb/sq ft)		0.57	
Alpha	1.00	Stream Power (lb/ft s)		2.26	
Frcin Loss (ft)	0.37	Cum Volume (acre-ft)	0.08	0.84	
C & E Loss (ft)	0.02	Cum SA (acres)	0.13	0.51	

Plan: pr cross 1 Trib 25 bald hill RS: 3300 Profile: 50-YR

E.G. Elev (ft)	599.41	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.36	W/L n-Val	0.100	0.040	0.100
W.S. Elev (ft)	599.05	Reach Len. (ft)	100.00	100.00	100.00
Chn W.S. (ft)		Flow Area (sq ft)	0.41	72.97	0.61
E.G. Slope (ft/ft)	0.004532	Area (sq ft)	0.41	72.97	0.61
Q Total (cfs)	350.00	Flow (cfs)	0.13	349.72	0.16
Top Width (ft)	33.12	Top Width (ft)	2.34	26.00	4.78
Vel Total (ft/s)	4.73	Avg Vel. (ft/s)	0.31	4.79	0.25
Max Chl Dpth (ft)	4.05	Hydr. Depth (ft)	0.17	2.81	0.13
Conv. Total (cfs)	5199.2	Conv. (cfs)	1.9	5195.1	2.3
Length Wid. (ft)	100.00	Wetted Per. (ft)	2.37	27.50	4.79
Min Ch El (ft)	595.00	Shear (lb/sq ft)	0.05	0.75	0.04
Alpha	1.03	Stream Power (lb/ft s)	0.01	3.60	0.01
Frcin Loss (ft)	0.39	Cum Volume (acre-ft)	0.29	1.25	0.01
C & E Loss (ft)	0.02	Cum SA (acres)	0.41	0.56	0.04

Plan: pr cross 1 Trib 25 bald hill RS: 3300 Profile: 100-YR

E.G. Elev (ft)	599.92	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.41	W/L n-Val	0.100	0.040	0.100
W.S. Elev (ft)	599.51	Reach Len. (ft)	100.00	100.00	100.00
Chn W.S. (ft)		Flow Area (sq ft)	2.25	85.04	4.56
E.G. Slope (ft/ft)	0.004240	Area (sq ft)	2.25	85.04	4.56
Q Total (cfs)	440.00	Flow (cfs)	1.18	436.54	2.28
Top Width (ft)	43.80	Top Width (ft)	5.59	26.00	12.21
Vel Total (ft/s)	4.79	Avg Vel. (ft/s)	0.52	5.13	0.50
Max Chl Dpth (ft)	4.51	Hydr. Depth (ft)	0.40	3.27	0.37
Conv. Total (cfs)	6757.6	Conv. (cfs)	18.1	6704.4	35.1
Length Wid. (ft)	100.00	Wetted Per. (ft)	5.65	27.50	12.23
Min Ch El (ft)	595.00	Shear (lb/sq ft)	0.11	0.82	0.10
Alpha	1.14	Stream Power (lb/ft s)	0.06	4.20	0.05
Frcin Loss (ft)	0.37	Cum Volume (acre-ft)	0.43	1.45	0.03
C & E Loss (ft)	0.02	Cum SA (acres)	0.54	0.57	0.08

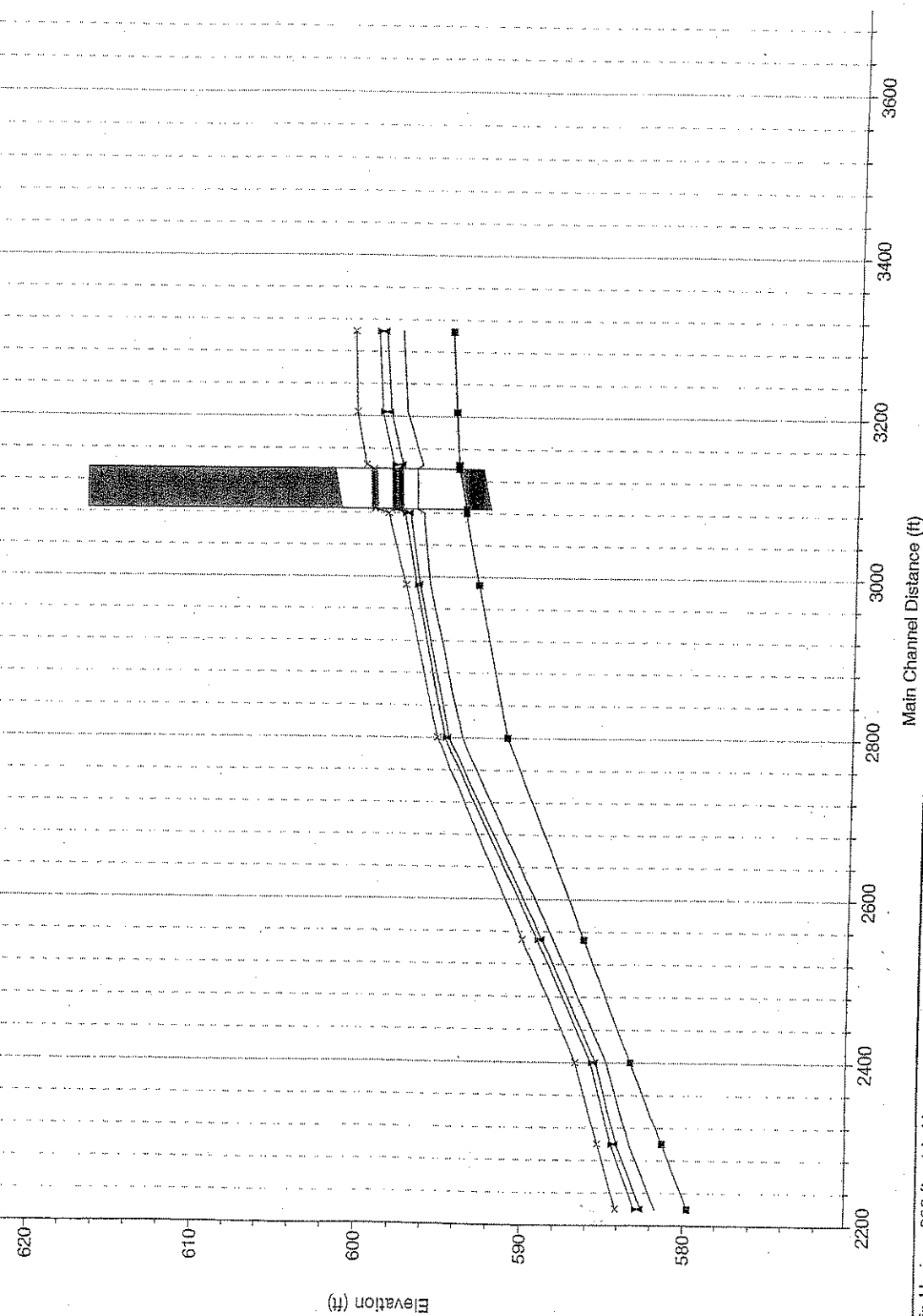
Plan: pr cross 1 Trib 25 bald hill RS: 3300 Profile: 500-YR

E.G. Elev (ft)	601.40	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.46	W/L n-Val	0.100	0.040	0.100
W.S. Elev (ft)	600.94	Reach Len. (ft)	100.00	100.00	100.00
Chn W.S. (ft)		Flow Area (sq ft)	19.13	122.15	36.96
E.G. Slope (ft/ft)	0.003170	Area (sq ft)	19.13	122.15	36.96
Q Total (cfs)	740.00	Flow (cfs)	15.81	690.36	33.83
Top Width (ft)	77.57	Top Width (ft)	19.35	26.00	32.23
Vel Total (ft/s)	4.15	Avg Vel. (ft/s)	0.83	5.65	0.92
Max Chl Dpth (ft)	5.94	Hydr. Depth (ft)	0.99	4.70	1.15
Conv. Total (cfs)	13142.6	Conv. (cfs)	280.8	12261.0	600.8
Length Wid. (ft)	100.00	Wetted Per. (ft)	19.48	27.50	32.30
Min Ch El (ft)	595.00	Shear (lb/sq ft)	0.19	0.88	0.23
Alpha	1.73	Stream Power (lb/ft s)	0.16	4.97	0.21
Frcin Loss (ft)	0.27	Cum Volume (acre-ft)	0.86	1.98	0.18
C & E Loss (ft)	0.03	Cum SA (acres)	0.80	0.57	0.19

Developed Conditions Floodplain Model

Trib 25 bald hill

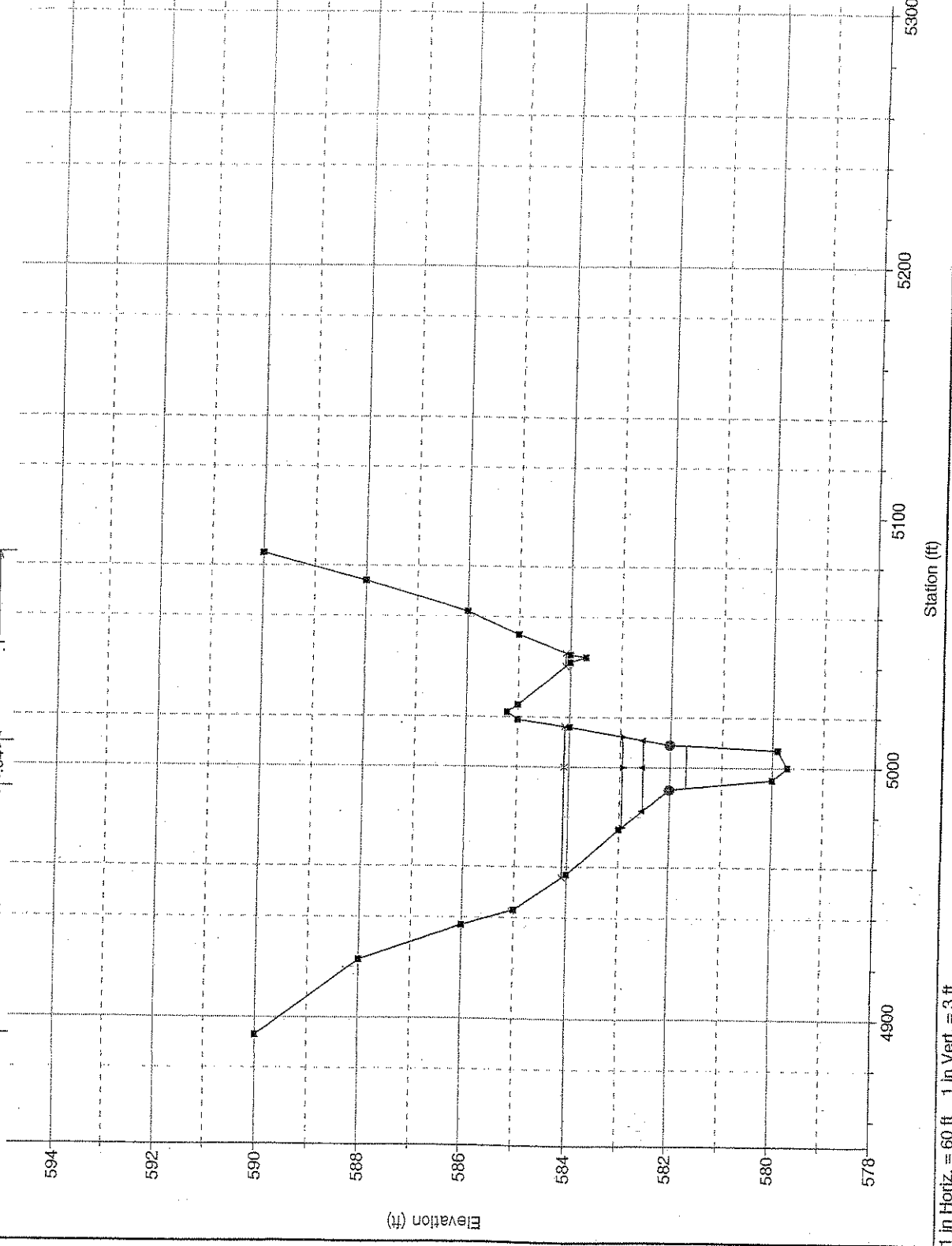
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WS 50-YR	△
WS 10-YR	■
Ground	—



1 in Horiz. = 200 ft 1 in Vert. = 10 ft

RS = 2220 Developed Conditions Floodplain Model

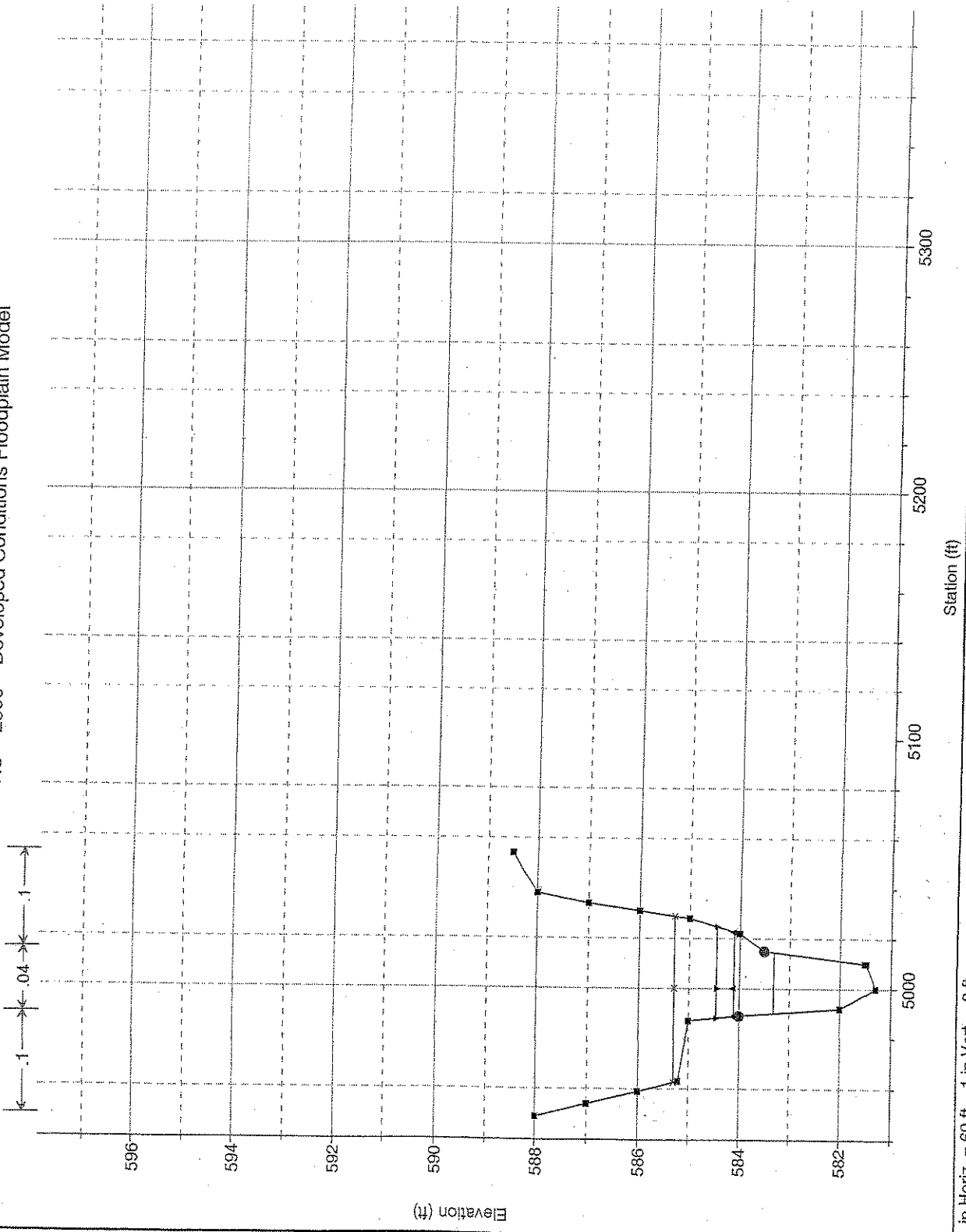
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WS 10-YR	◆
Ground	●
Bank Sta	●



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2300 Developed Conditions Floodplain Model

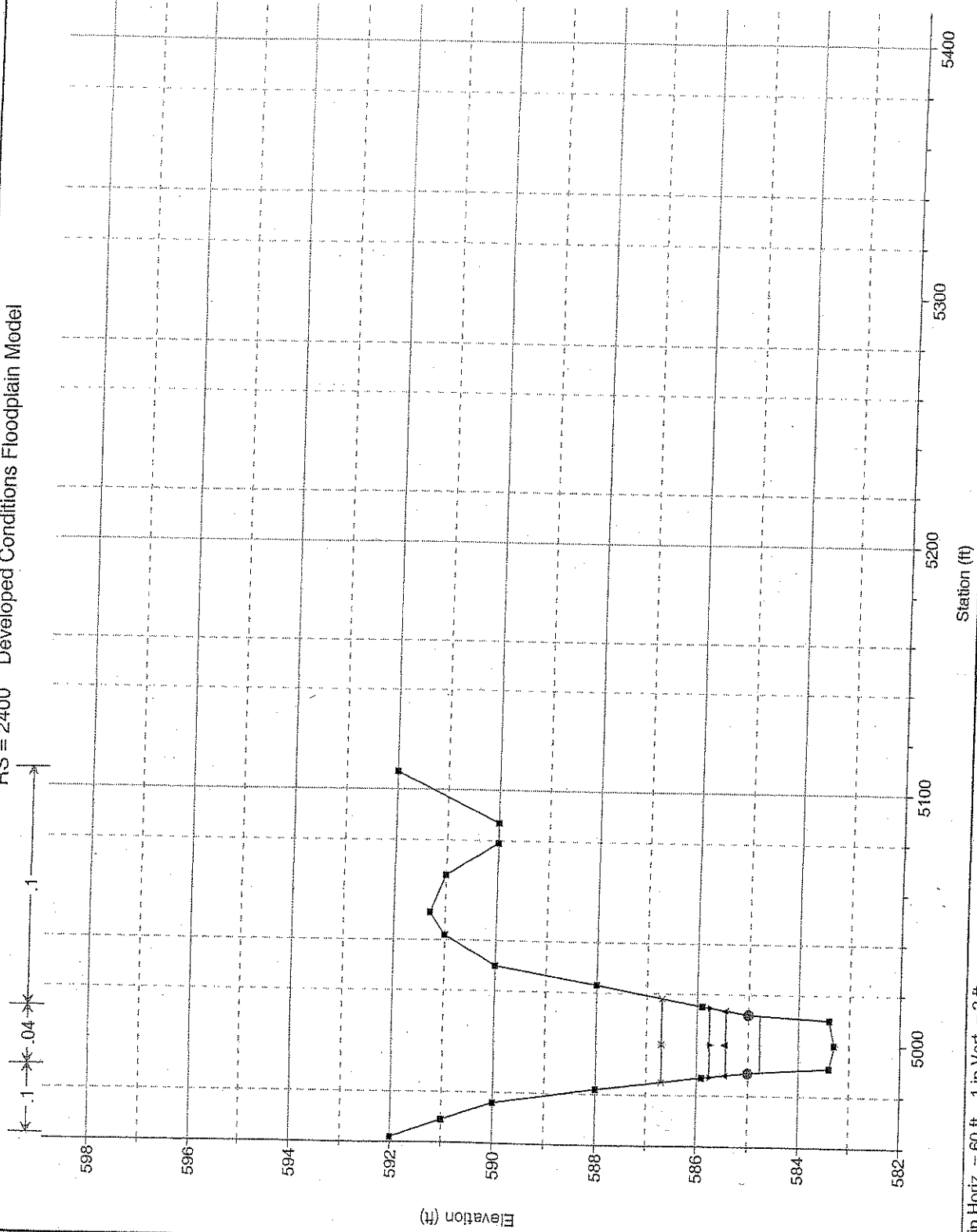
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WS 50-YR	—○—
WS 10-YR	—□—
Ground	—■—
Bank Sta	●



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2400 Developed Conditions Floodplain Model

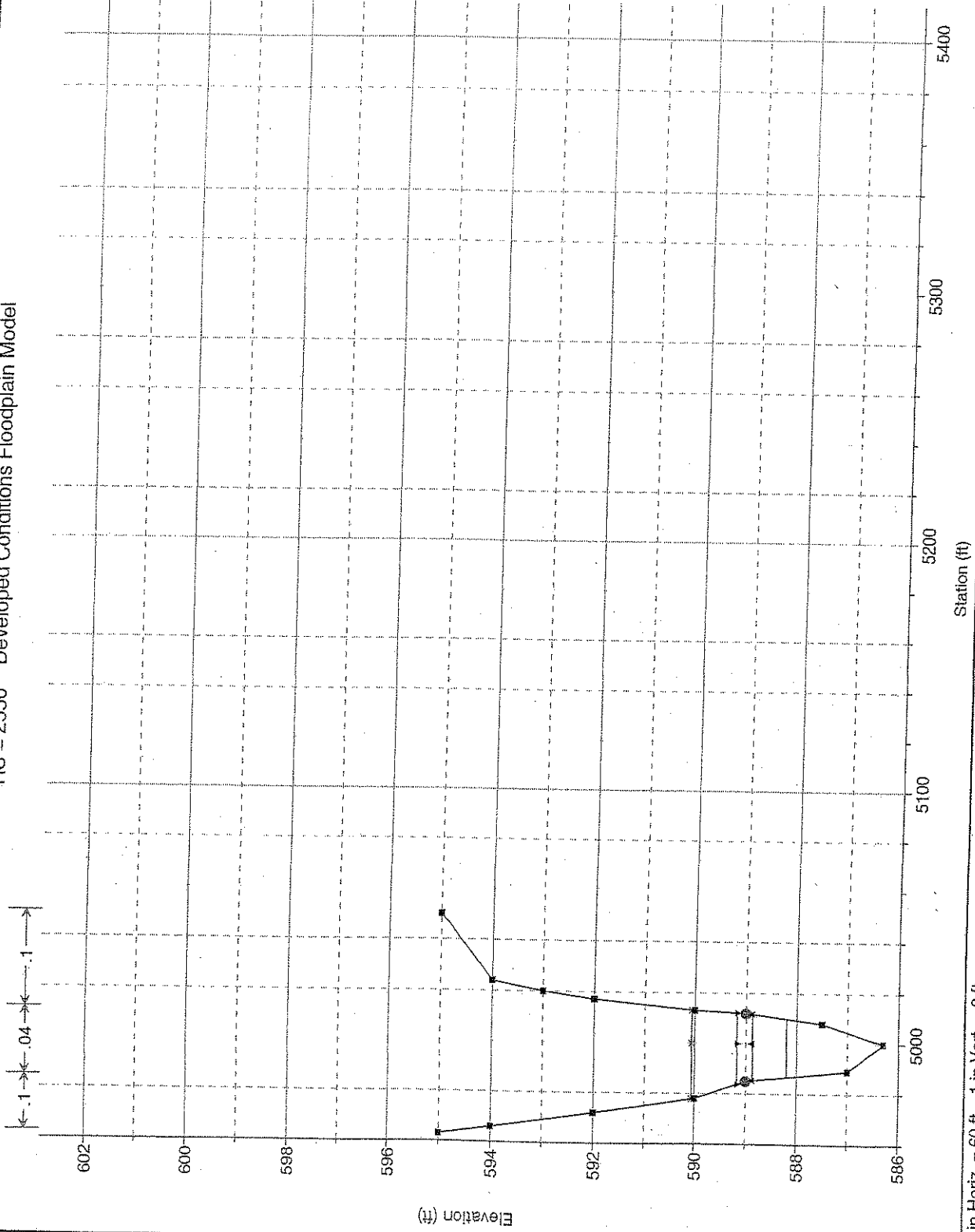
Legend	
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WS 100-YR	▲
WS 50-YR	▼
WS 10-YR	■
Ground	—
Bank Sta	●



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2550 Developed Conditions Floodplain Model

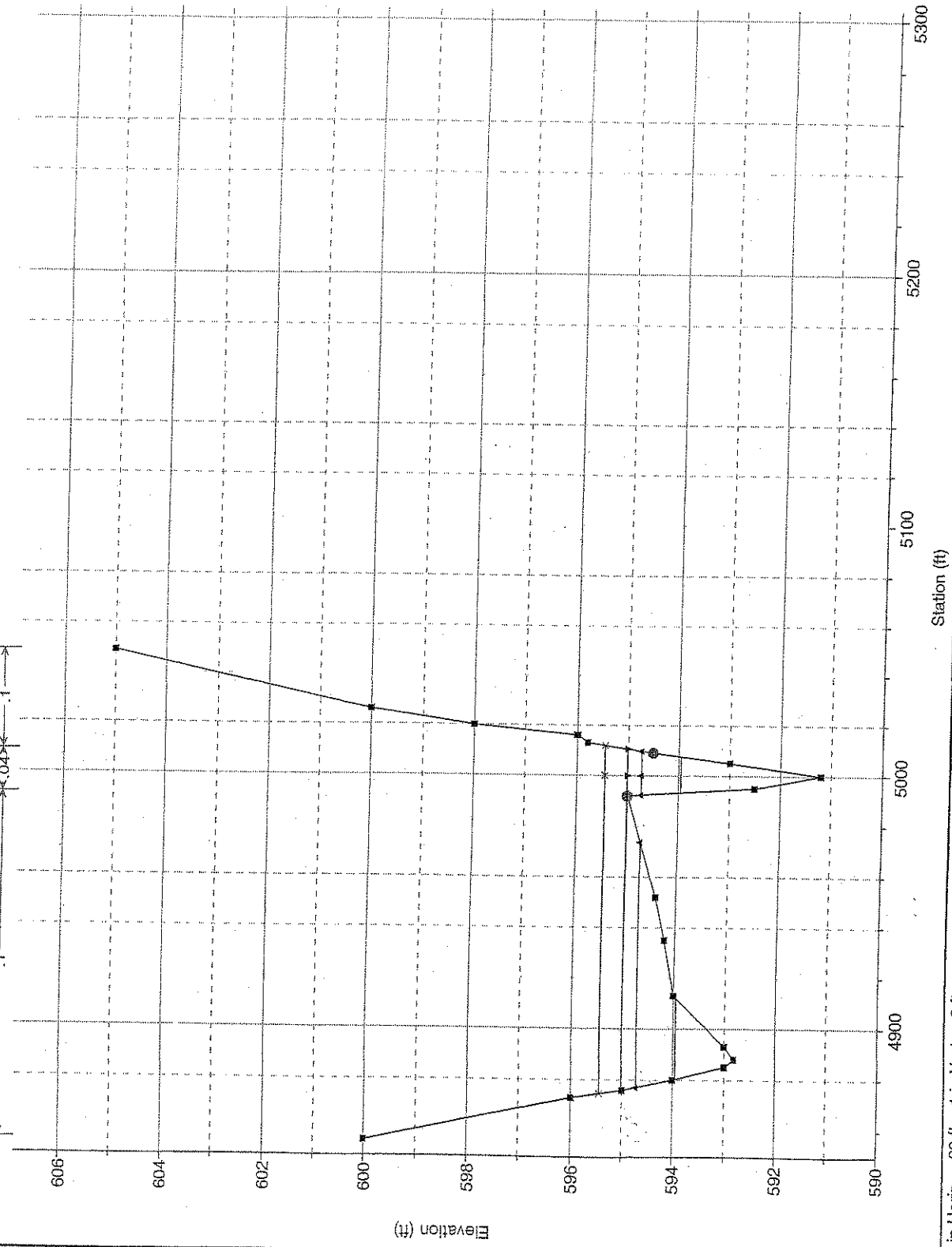
Legend	
→	WS 500-YR
→	WS 100-YR
→	WS 50-YR
→	WS 10-YR
●	Ground
○	Bank Sta



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2800 Developed Conditions Floodplain Model

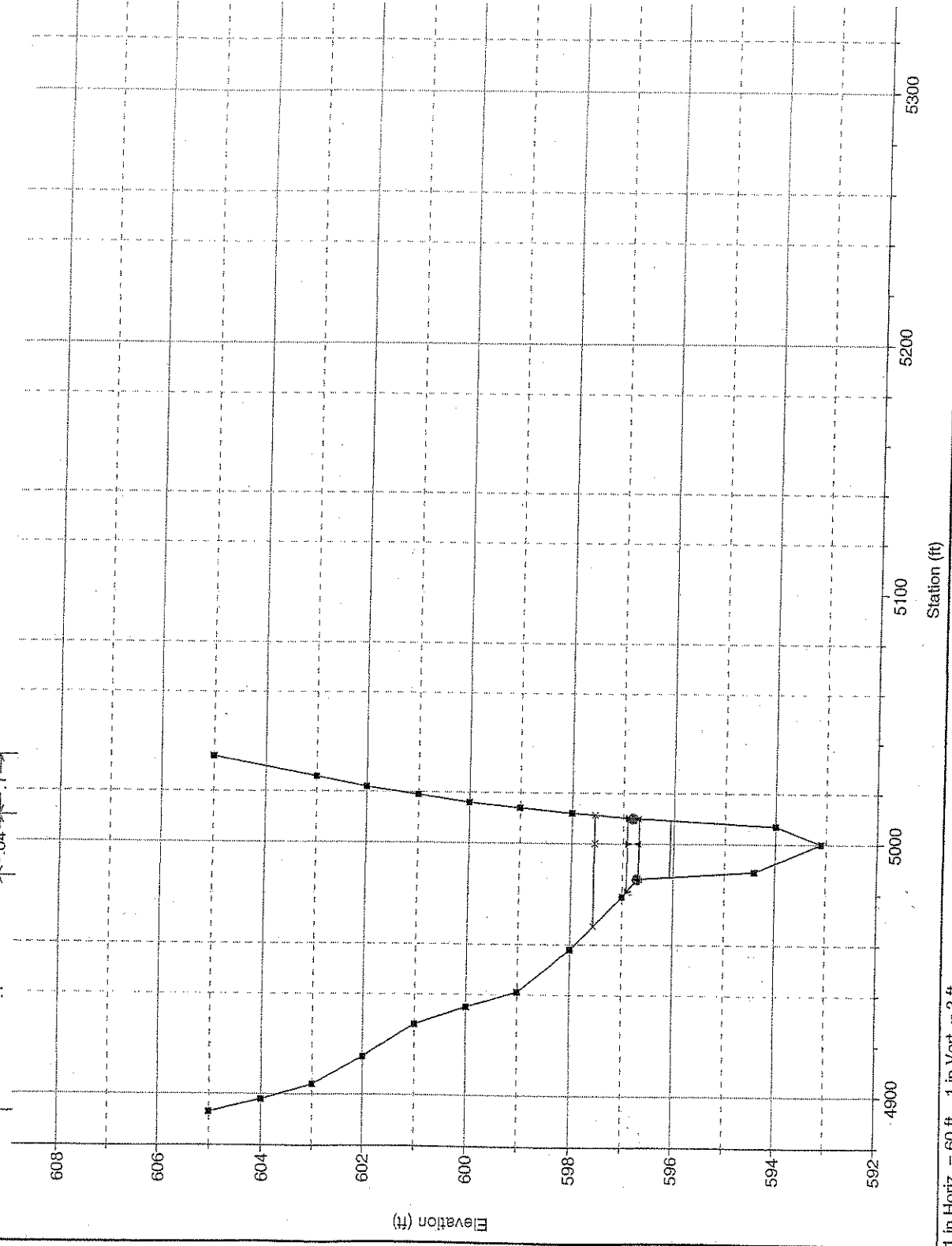
Legend	
WS 500-YR	▲
WS 100-YR	▼
WS 50-YR	◆
WS 10-YR	■
Ground	●
Bank Sta	○



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2990 Developed Conditions Floodplain Model

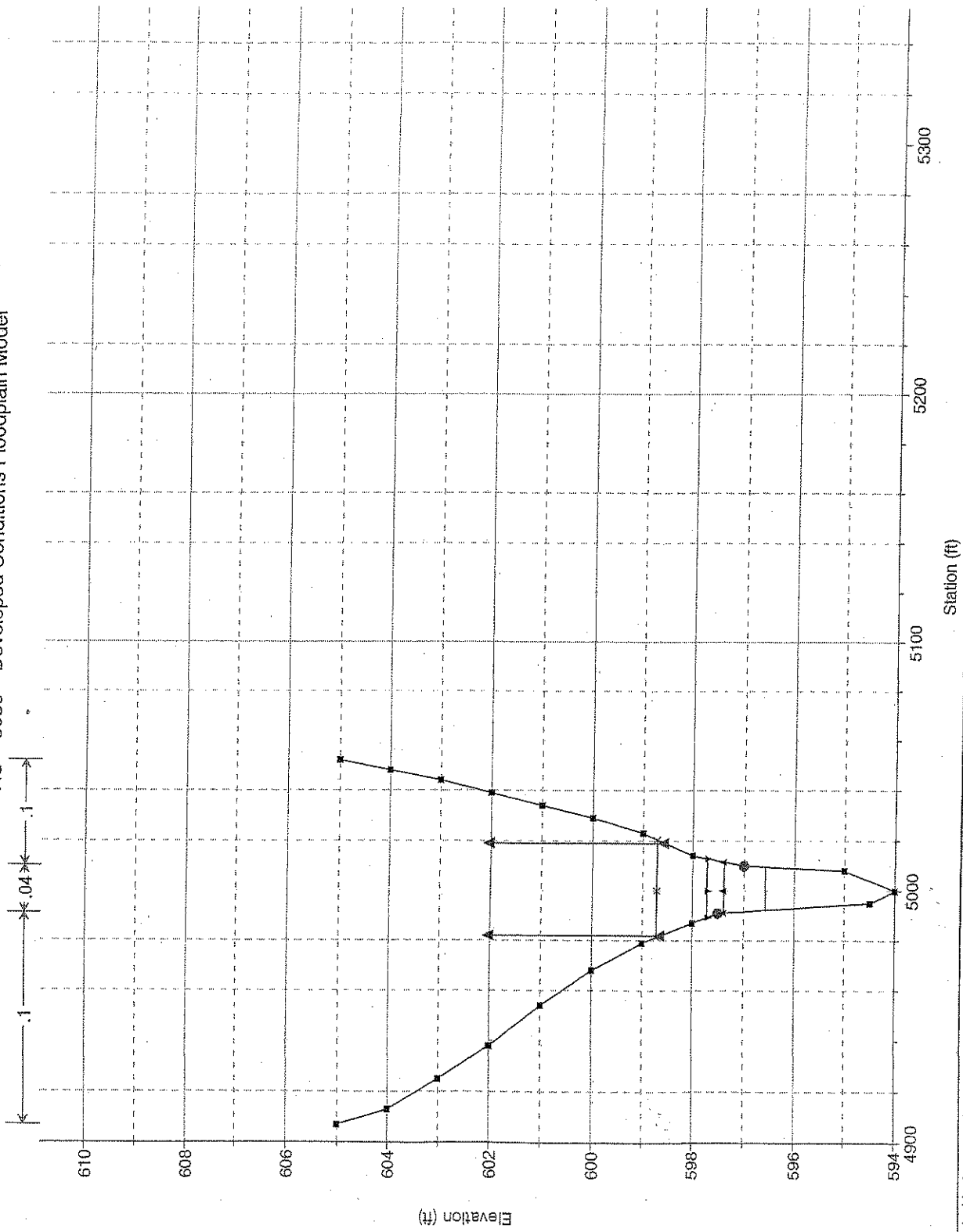
Legend	
—	WS 500-YR
-x-	WS 100-YR
-▲-	WS 50-YR
-■-	WS 10-YR
-●-	Ground
-○-	Bank Sta



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 3080 Developed Conditions Floodplain Model

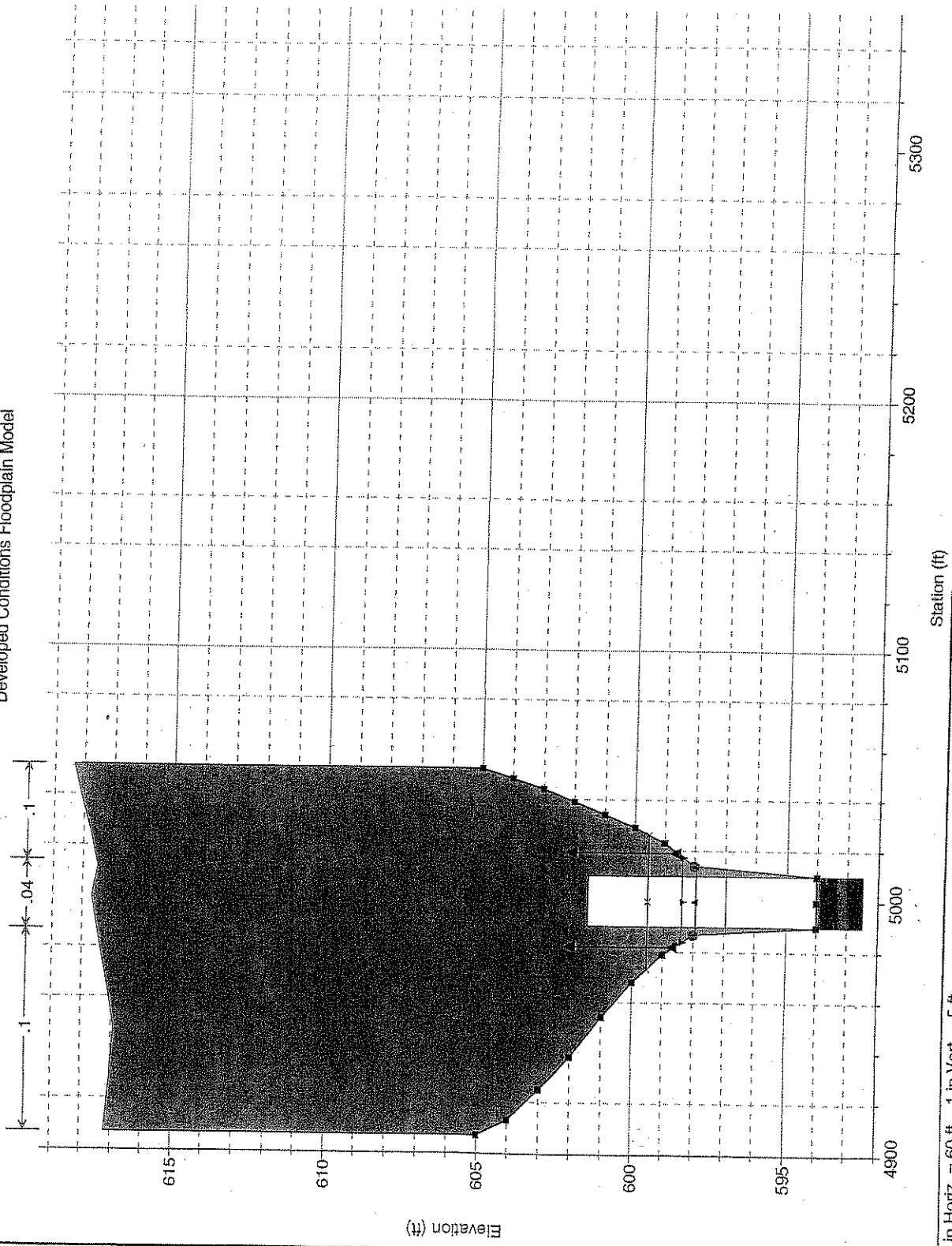
Legend	
—▲—	WS 500-YR
—▲—	WS 100-YR
—▲—	WS 50-YR
—▲—	WS 10-YR
—■—	Ground
▲	Ineff
●	Bank Sta



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

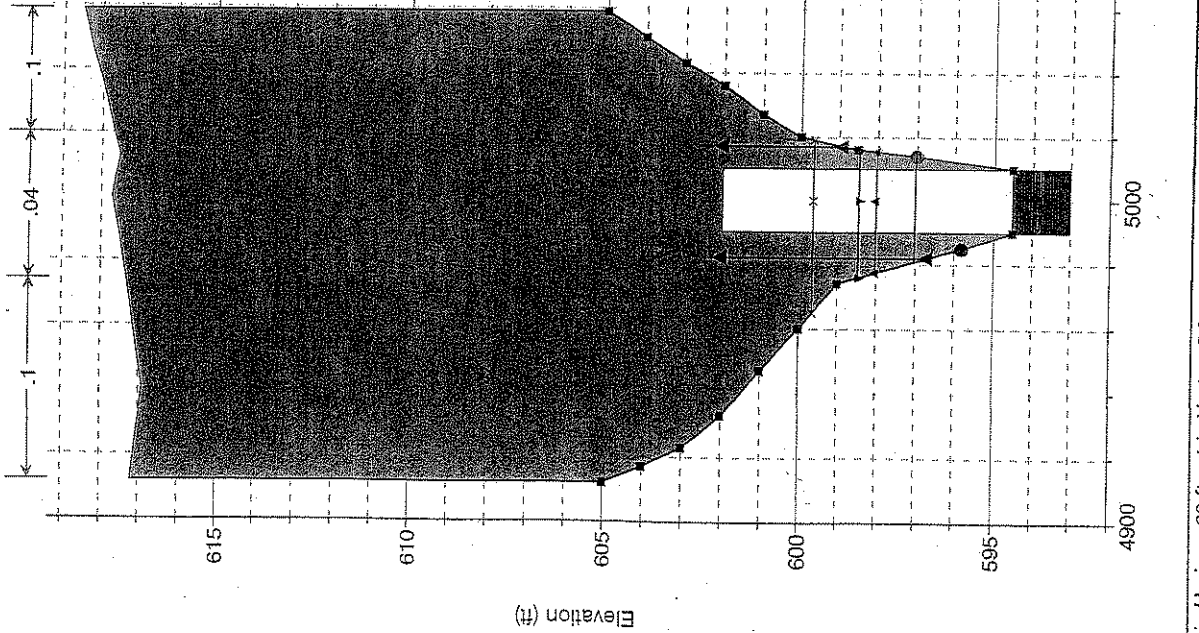
RS = 3110 Culv new stream crossing
 Developed Conditions Floodplain Model

Legend	
WS 500-YR	▲
WS 100-YR	▼
WS 50-YR	◆
WS 10-YR	■
Ground	—
Ineff	▲
Bank Sta	●



1 in Horiz. = 60 ft 1 in Vert. = 5 ft

RS = 3110 Culv new stream crossing
 Developed Conditions Floodplain Model

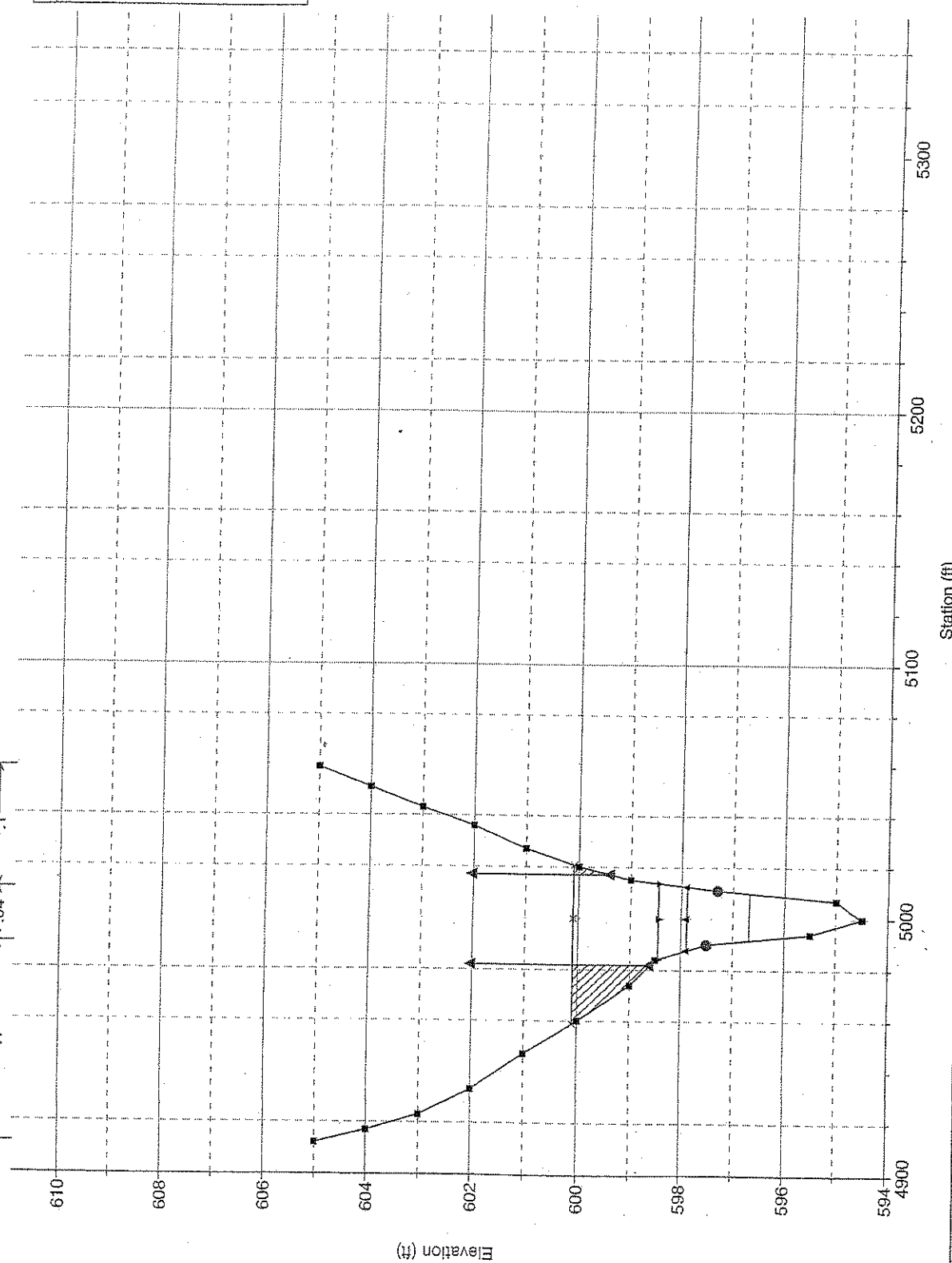


Legend	
WS 500-YR	*
WS 100-YR	▽
WS 50-YR	↓
WS 10-YR	■
Ground	█
Ineff	↑
Bank Sta	⊙

1 in Horiz. = 60 ft 1 in Vert. = 5 ft

RS = 3140 Developed Conditions Floodplain Model

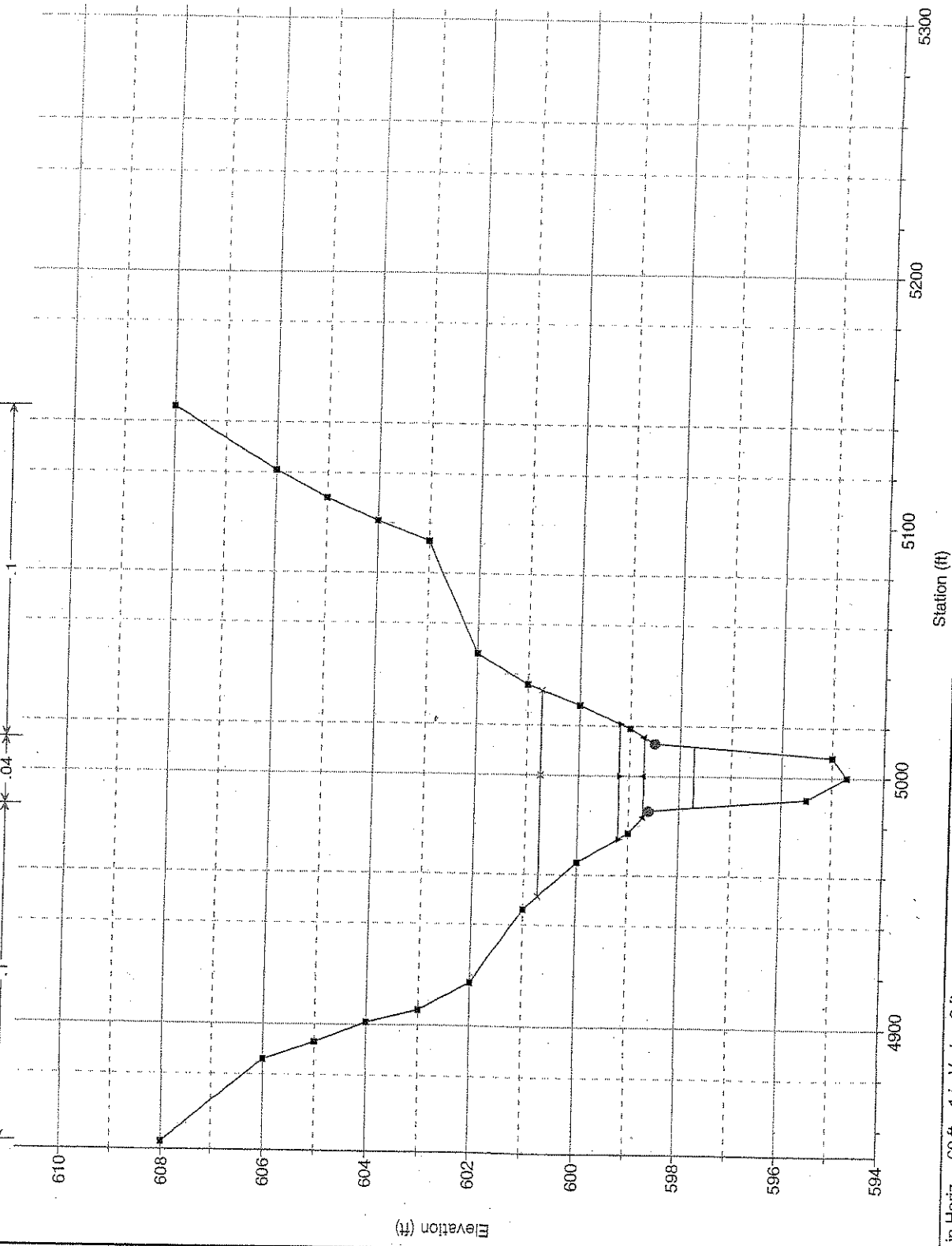
Legend	
WS 500-YR	▲
WS 100-YR	▼
WS 50-YR	◆
WS 10-YR	■
Ground	○
Ineff	△
Bank Sta	●



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 3200 Developed Conditions Floodplain Model

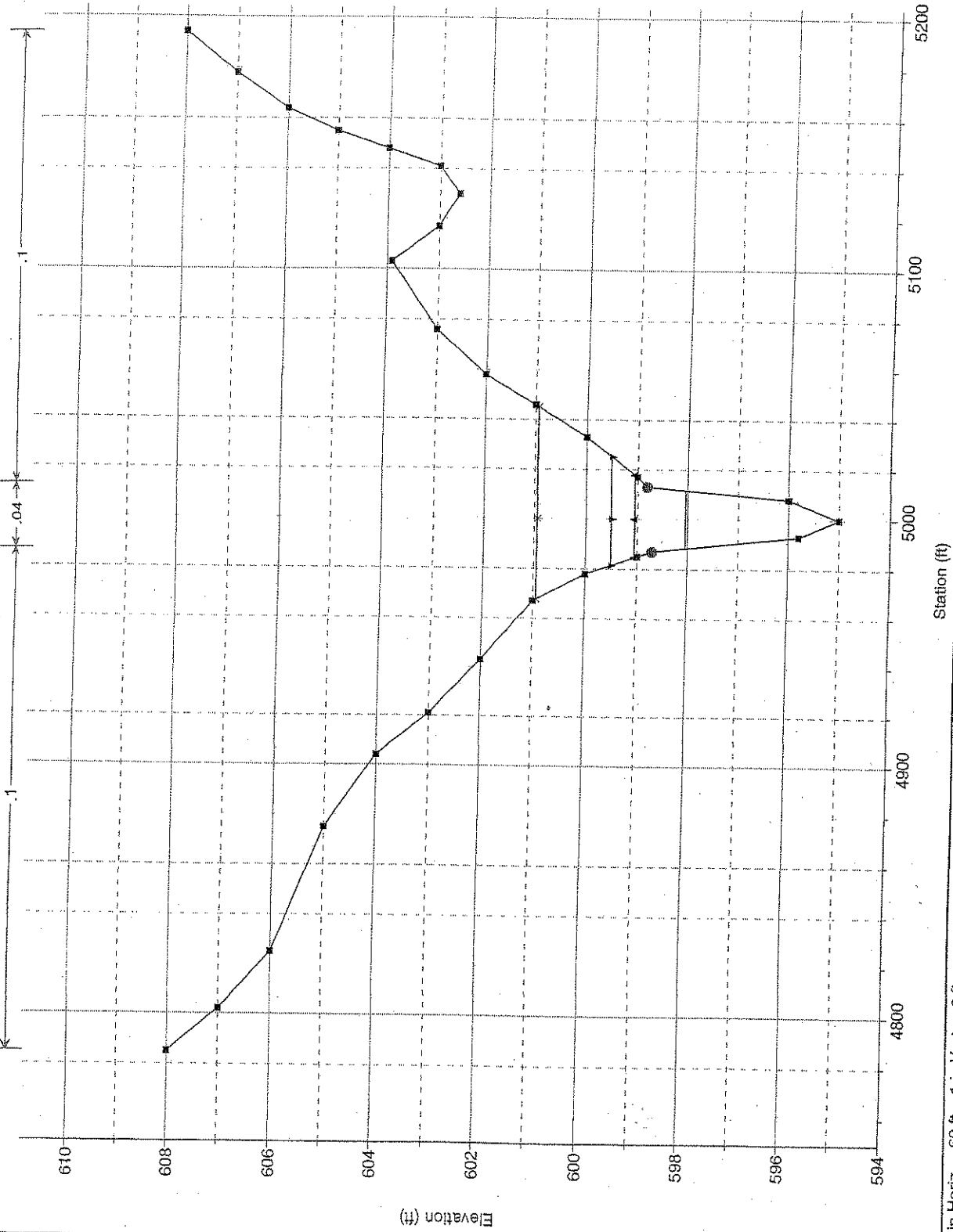
Legend	
WS 500-YR	▲
WS 100-YR	▼
WS 50-YR	◆
WS 10-YR	■
Ground	●
Bank Sta	○



1 in Horiz. = 60 ft 1 in Vert. = 3 ft.

RS = 3300 Developed Conditions Floodplain Model

Legend	
—	WS 500-YR
- - -	WS 100-YR
- · -	WS 50-YR
- x -	WS 10-YR
—	Ground
⊙	Bank Sta



1 in Horiz. = 60 ft 1 in Vert. = 3 ft